Faunal Provinces and Patterns of Diversity in Late Cretaceous (Santonian-Maastrichtian) Larger Foraminifera

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Zusammenfassung

Die umfassende Analyse von 25 unterschiedlichen Genera von Großforaminiferen aus der Oberkreide bezüglich ihrer globalen Verbreitung zeigt signifikante Muster. Diese sind auf Gattungsniveau in eine regionale, eine überregionale und eine globale Kategorie unterteilbar. Insgesamt lassen sich vier Faunenprovinzen (FP) aufstellen: 1) Karibische FP, 2) Asiatische FP, 3a) Europäische Tethys, und 3b) Afrikanische Tethys. Diese sind durch das Auftreten bzw. durch Absenz spezifischer Taxa definiert. Die Faunenprovinzen der Europäischen und der Afrikanischen Tethys zeigen interferierende Muster die im Grenzbereich amalgamieren. Eine eindeutige Differenzierung bedarf deshalb weiterer Analysen. Die Europäische Tethys kann weiterhin in einen westlichen sowie einen östlichen Bereich gegliedert werden. Die Auswertung der Diversität zeigt einen maximalen Wert im westlichen Bereich der südeuropäischen Tethys. Ein weiteres Diversitätsmaximum befindet sich im östlichen Teil. Die Diversitätsmaxima sind vermutlich in der zur Verfügung stehenden Fläche (flache Schelfbereiche) und den damit einhergehenden Faktoren (große Individuenzahl, hohe Temperatur, starke Sonneneinstrahlung, hohe Mutationsrate) begründet. Oberflächenströmungen sind im Wesentlichen für die Verbreitung von Großforaminiferen und beeinflussen damit auch gleichzeitig die Biodiversität. Das verantwortlich Diversitätszentrum in der oberkretazischen europäischen Tethys ist in seinen Eigenschaften mit dem heutigen "hotspot" der marinen Diversität, das sich im Indopazifischen Ozean befindet, vergleichbar. Man kann daher von einer Verlagerung des "hotspot" aus dem europäischen Bereich der Tethys in der Oberkreide in den Indopazifik heute sprechen. Maßgebliche Voraussetzung für diese Verlagerung war die Veränderung der paläogeographischen Situation von der Oberkreide bis heute.

Abstract

A detailed biogeographical analysis of the global distribution of 25 different genera of larger symbiont-bearing foraminifera from the Late Cretaceous reveals that they exhibit distinct patterns. On a generic level, the distribution is divisible into regional, superregional and global categories. Four Faunal Provinces (FP) were established: 1) Caribbean FP, 2) Asiatic FP, 3a) European Tethys, and 3b) African Tethys. The precise classification of the latter two Faunal Provinces into subprovinces requires further detailed studies. The European Tethys can be divided into western and eastern subprovinces. The analysis of generic diversity shows a maximal value in the western part of the Southern European Tethys. A second peak, with a minor value, is situated in the eastern part. Maximum diversity appears to result from the large available area (shallow shelf regions) and corresponding physical and biological factors (high temperature, high insolation, high mutation rate). The prevailing sea surface currents are the main influence on the distribution of the larger foraminifera, as well as on the extent of the bioprovinces. The center of diversity in the Late Cretaceous European Tethys is comparable in its characteristics with the modern "hotspot" of marine diversity, which is situated in the Indopacific Ocean. Therefore, it is possible to speak of a displacement of the "hotspot" from the European Area of the Tethys in the Late Cretaceous to the Indopacific region in modern oceans. The displacement is the result of paleogeographic changes that occurred since the Late Cretaceous.

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1 Introduction

Analyses of patterns of biodiversity are of enormous significance for scientists. They concentrate either on recent biodiversity patterns to find out where the "hotspots" are located and why they occur at that position, or they analyze the patterns of biodiversity in different time slices to interpret the changes in time and space. All these approaches are useful features to understand the variety of life, its changes through time and finally suggest potential avenues for the preservation of biological variety.

The subject of this dissertation is the analysis of patterns of diversity in larger foraminifera that have lived during the Late Cretaceous. The time slice under consideration is from the beginning of the Santonian (85.8 Ma) to the end of the Maastrichtian (65.5 Ma). This time span is of particular interest as it is just before the huge mass extinction at the end of the Cretaceous, in which about 85 % of the marine and terrestrial species become extinct.

Due to their great abundance throughout the phanerozoic time and their global distribution, foraminifera provide spectacularly detailed datasets, which can be used to recognize patterns of biodiversity and their changes in time and space. In addition, larger foraminifera are particularly useful for distributional analyses since genera and species appear to follow similar patterns of dispersal (Adams, 1967; Langer and Hottinger, 2000).

To date, predominantly local distribution patterns were studied and global diversity patterns of larger foraminifera have been only sparsely investigated. Langer and Hottinger (2000) examined the global distribution pattern of selected recent larger foraminifera and Adams (1967, 1983, 1989) analyzed patterns from the Tertiary. They established Faunal Provinces in respect to the time span under consideration. Today four Faunal Provinces for larger symbiont-bearing foraminifera exist: 1) the Inner, Central Pacific province, 2) the Central Indopacific realm, 3) the Western Indian Ocean including the Red Sea and the Persian Gulf, and 4) the Caribbean realm (Langer and Hottinger, 2000). For the Tertiary three Faunal Provinces were compiled: 1) America, 2) Tethys, and 3) Indo-Pacific (Adams, 1967). These changes raise questions concerning driving mechanisms of biogeographic pattern through time and potential causes affecting these changes.

The biogeographic distribution of Late Cretaceous symbiont-bearing larger foraminifera has not been examined to date. This work of the global distribution of 25 genera therefore fills a gap.

Aim of this work is to increase the knowledge of the global biogeographic distribution pattern of several larger foraminifera in the Late Cretaceous. Priority was given to the analysis of the prevailing literature, which deals with the occurrences of the chosen genera, and the critical verification of the data presented therein. In addition, material from selected locations was added to this data set. The aim was the establishment of global distribution maps for each genus of larger foraminifera. With the help of these maps common biogeographic patterns were compiled. On the basis of the distribution patterns, faunal provinces were defined and are compared with the currently accepted faunal provinces of Tertiary and Modern taxa (Adams, 1967; Langer and Hottinger, 2000). The observed changes were recorded and subjected to causal analysis. The diversity of Late Cretaceous foraminifera was examined and compared with available recent and fossil diversity pattern. These changes in biodiversity pattern through time are of special interest for researches in biodiversity as they allow statements about the driving mechanisms. The results can be used to track geologic changes and to solve geologic problems of the past.

2 Material and Methods

In this study the global distribution patterns of 25 genera of larger benthic foraminifera were analyzed. The generic classification is based on Loeblich and Tappan (1988). The material used for this analysis stems from 1) critically reviewed literature, 2) sampling material from different locations, and 3) material which was provided by other scientists.

The first step was the establishment of a database: the data recorded were author, stratigraphic age, location, location number, illustration, and facies for each genus. The dataset is based on about 200 critically reviewed scientific publications of different authors, who analyzed selected regions for their foraminiferal content or concentrated on the distribution of certain genera or species. The rule was to check the presence or absence of the foraminiferal genera in the cited locations. The illustrations in the literature were of special importance as they allowed the verification of the generic identification. If no illustrations or morphological description were provided, the data were treated with special caution.

The examined time slices comprise the Santonian (85.8-83.5 Ma), the Campanian (83.5-70.6 Ma) and the Maastrichtian (70.6-65.5 Ma). The ages are based on the International Commission on Stratigraphy (ICS, 2004; Gradstein et al., 2004). The global correlation of the Late Cretaceous (Santonian, Campanian and Maastrichtian) was based on planktonic foraminifera (Figure 2.1) following the correlation after Bolli et al. (1985) and Berggren et al. (1995).

Stage	Planktonic Foraminifera
	Abathomphalus mayaroensis
Maastrichtian	Gansserina gansseri
	Globotruncana aegyptiaca
	Globotruncanella havanensis
	Globotruncanita calcarata
Campanian	Globotruncana ventricosa
	Globotruncanita elevata
	Dicarinella asymetrica
Santonian	
	Dicarinella concavata
Contactan	

Figure 2.1: Stratigraphic correlation based on planktonic foraminifera (Bolli et al., 1985)

Additional material was collected from Greece and from Spain. Those localities were chosen, because they are situated at the eastern and the western margin of the Cretaceous Tethys respectively, and can be called "key regions" of the Tethys. With a prevailing westerly flow

Greece lies at the "beginning" of the Tethys, Spain at the "end". A comparison of the faunal content from both localities can provide information about the distributional ranges of foraminifera. The sea surface currents, coming from the eastern part of the Tethys, have to pass through the relatively narrow strait between Spain and Africa. Due to their distribution via surface currents, it is supposed that most of the foraminiferal genera that occur in the eastern part of the Tethys should appear in this region too.

Sampling on the SW-Peloponnes (Greece) took place from 21.07.2003 - 28.07.2003. The areas sampled are situated between the localities of Pylos and Methoni, Messinia. Thin sections were made from the rock samples using a bronze sintered diamond cut-off wheel. These were analyzed for the presence of the studied genera. The sampling around Tremp, Catalonia (Spain) occurred from 29.09.2003 until 03.10.2003. Here predominantly loose material was sampled, which was dissolved either in 30% H₂O₂, or in H₂O, for 24 hours depending on the material. Afterwards the foraminifera were picked out of the material and identified. Additionally, it was possible to analyze some material from Marseille (France), Jamaica and Haymana (Central-Anatolia), which was provided by Prof. Dr. Lukas Hottinger, Naturhistorisches Museum Basel, Switzerland. An overview of the samples and the location can be found in the appendix 13.1 "Sampling Material".

Analyses of Late Cretaceous carbonate platforms (Figure 2.2) by Simo et al. (1993) indicate areas with shallow marine water. These regions provide indices of expected occurrences of larger symbiont-bearing foraminifera. To the south the main appearance is limited by the 30° latitude, while the northward extension reaches about 35° North.

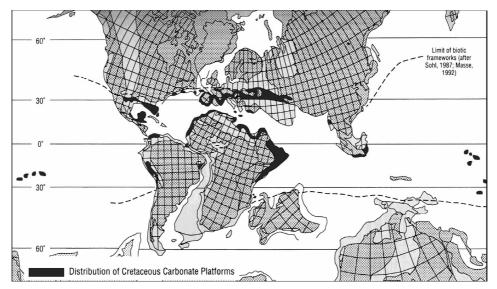


Figure 2.2: Cretaceous Carbonate Platforms (Simo et al., 1993)

The dataset, which can be found in a table in the appendix 13.2 "Tables of the genera", was used as foundation for the construction of the biogeographic distribution maps. In this table the following aspects are described: 1) Publication, 2) Citation (primary literature), 3) Genus, 4) Species, 5) Reference, 6) Formation, 7) Stratigraphic Age, 8) Location-Number, 9) Station, 10) Site, 11) Location-Description, 12) Country, 13) Faunal Province, 14) Illustration, 15) Association, 16) Lithology, 17) Collection Déposée, 18) Abundance, 19) Facies, and 20) Remarks. With the exception of the Location-Number, the Faunal Province, and the Remarks, all data were taken from the literature. Detailed positions were only included when provided in the literature.

Nearly 200 tropical and subtropical locations worldwide were analyzed. Closely situated sites were combined generating about 80 locations, which were plotted on a global world map (Figure 2.3; modified after Ziegler et al. 1997) showing the paleogeographic situation during the Maastrichtian.

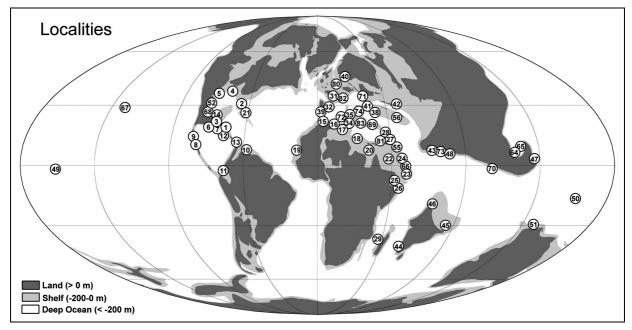


Figure 2.3: Localities (modified after Ziegler et al. 1997)

For reasons of clarity, some of the closely spaced localities in the world map were plotted together (e.g. Belgium (30) + The Netherlands (57) = 80; Jordan (75) + Israel (53) + Lebanon (54) = 81). An overview of all locations with the appropriate location numbers is given in the appendix 13.3 "Localities". A distributional map was established for each genus in which localities were plotted showing where individuals of that genus have been reported.

With the help of the distribution maps Faunal Provinces (FP) were established. Further, the diversity of the foraminifera was analyzed and compared with the biodiversity of recent larger foraminifera.

3 Foraminifera

In modern oceans foraminifera represent an astonishingly diverse group of shelled microorganisms. In 1988, Loeblich and Tappan described 2455 foraminiferal genera, 878 of which are recent ones (Sen Gupta, 1999). Due to their great abundance they are used for biostratigraphy, age dating and correlation of sediments, and paleoecological interpretation (Loeblich and Tappan, 1988). The first unambiguous benthic foraminifera are of Cambrian age (Langer, 1999; Sen Gupta, 1999) and the earliest most-probable foraminifera are of Precambrian age (Langer, 1999) while the first planktonic species occurred in the Middle Jurassic (Schiebel and Hemleben, 2005).

In 1992, Loeblich and Tappan raised the taxonomic rank of foraminifera from an order to a class, so that in the systematic classification of Sen Gupta (1999) the class Foraminifera belongs to the Kingdom Protocista, Subkingdom Protozoa, Phylum Granuloreticulosa.

Foraminifera are marine eukaryotic protists, which possess granuloreticulose pseudopodia and a test. This test can be built of various materials which gives rise to a differentiation of several groups of foraminifera: 1) organic material (Allogromiina), 2) agglutinated material (Textulariacea), 3) calcium carbonate microgranular (Fusulinacea), 4) calcium carbonate porcelaneous (Miliolina), 5) calcium carbonate hyaline (Rotaliina), and 6) opaline silica (Silicoloculinina). Further, foraminifera are also characterized by an alternation of asexual and sexual reproduction. This feature was often the reason for some confusion as it is sometimes associated with a pronounced dimorphism e.g. in *Rhapydionina*, which was first designated as two genera.

The test morphology shows a great variety. It ranges from single-chambered to multilocular forms, with chamber arrangements varying from simple uniserial to complicated streptospiral or trochospiral. Also, the apertures show a high diversity from single terminal to multiple cribrate openings. These features are often adapted to the environmental setting of foraminifera. Observations of modern foraminifera, their morphology and their environment have made it possible to reconstruct the environments of the past.

Larger foraminifera, on which this thesis focuses, first occur in the Late Carboniferous with the group Fusulinids (Hottinger, 1982) and numerous genera are still present today. They can be distinguished from their smaller relatives by their larger size (2 mm - 15 cm, Hohenegger, 1999) and in contrast to their smaller counterparts they possess a complicated internal structure. Most of the larger foraminifera house endosymbionts. These are unicellular algae (diatoms, rhodophyts, chlorophyts, dinoflagellates) living in the cytoplasm of the host, where

they photosynthesize (Hottinger, 1982; Leutenegger, 1984; Hallock, 1988). They are distinguishable by the coloration they give to the living foraminifer (e.g. diatoms give foraminifera a brownish and yellow, rhodophyts a purple and chlorophyts a green color; Röttger, 1983). The presence of endosymbionts in fossil foraminifera can be recognized by polygonal eggholder structures in which they have lived (Hottinger, 1982). The advantages of the symbiosis between host and symbiont are not yet completely clarified. Foraminiferal benefits might result from the energy from photosynthesis and calcification increases while the symbiont assimilates the hosts metabolites (Hallock, 1999, 2000).

Due to the symbiosis the larger symbiont-bearing foraminifera adapt to their environments and also their test morphology and shell structure to the requirements of the symbiont. To allow photosynthesis the symbionts need an environment with clear water, which can be found best in oligotrophic settings of neritic shallow regions. The foraminifer itself optimizes the light intensity by building thin transparent test walls or light-collecting mechanisms like nodes and pillars, or they retard high irradiation by building thicker tests or porcelaneous structures, making the walls impenetrable (Hottinger, 1997; Hohenegger, 1999). Too strong effects of light can be regulated by symbiont movement or by crawling into shaded areas (Hottinger, 1997 and literature therein).

Larger fossil foraminifera are usually found in carbonates and calcareous clays. The favored environments are the open shelf, fore-reefs, top-reef and back-reef (lagoonal), where they live on or near the sea floor or on the vegetation (Adams, 1983; Langer and Lipps, 2003).

Another very important factor for larger symbiont-bearing foraminifera is the prevailing water temperature. Langer and Hottinger (2000) discovered that in general the minimal temperatures of most modern larger foraminifera are between 14° C and 20° C, which restricts the distribution to the tropical and subtropical regions. These temperatures are also essential for the growth and reproduction of the endosymbionts.

Foraminifera possess different feeding strategies. They are microherbivores, microcarnivores, omnivores, detrivores or suspension feeders (Lipps, 1983). In the oligotrophic environments of the subtropical and tropical regions, these feeding strategies are not necessarily required in larger symbiont-bearing foraminifera. Housing endosymbionts provides a selective advantage in these settings because the hosts are able to obtain nourishment in different degrees from their symbionts. Extreme examples are some Nummulitidae and Calcarinidae, which were not observed to feed anything but their endosymbionts (Hallock, 1999 and literature therein).

8

Larger foraminifera are exclusively benthic and are either epiphytes or move on or in the sediments. The different modes of life are reflected in their test forms and apertures. Epiphytes are characterized by a discoidal test with marginal apertures or by various test shapes with elongated or flattened apertural faces. Foraminifera living on or in the bottom have diverse test shapes and many of them have a canal system (Hottinger, 1984 in Caus, 1988).

Active distribution of benthic foraminifera is only made possible by the movement of the reticulopodia, with which the protists attach to the substrate and pull the test forward (Hottinger, 1982; Travis and Bowser, 1991). This is a very slow process with rates up to a few millimeters per hour for shallow water species (Alve, 1999 and literature therein).

Several forms of passive distribution are discussed in detail in Lessard (1980). In their larval stage foraminifera easily drift in sea surface currents. In a later ontogenetic stage distribution can occur through sedimentological processes via disrooted plants or spreading by other animals. These possibilities, which might have influenced the global distribution of larger foraminifera, will be discussed in detail in chapter 5 "Distribution of larger foraminifera".

4 Late Cretaceous Paleoenvironmental Setting

This chapter will provide an overview of the Late Cretaceous situation concerning paleogeography, paleoceanography, paleoclimatology, and paleoecology. The knowledge of these parameters, which are strongly interwoven and related to each other, is indispensable for the analysis of global distribution patterns of any organisms, terrestric or marine.

Paleogeography concerns the position of the continents respective to each other in a certain time slice. The different arrangement of landmasses has a great influence on paleoceanography. The varying extension of the seaways results in differences in the pattern of the paleocurrents. Poulsen et al. (1998) demonstrated in several experiments with different paleogeographic patterns, that paleogeographic evolution is an important mechanism of climatic and environmental change. Finally, all these components – paleogeography, paleoceanography and paleoclimatology – are the main factors that control the paleoecology of the organisms, which inhabit these environments.

4.1 Paleogeography

At the end of the Cretaceous the global paleogeographic situation was distinctly different compared to the modern one (Figure 4.1). The map clearly shows that in the Late Cretaceous much more shelf areas existed and that the continents were situated much closer together than they are today.

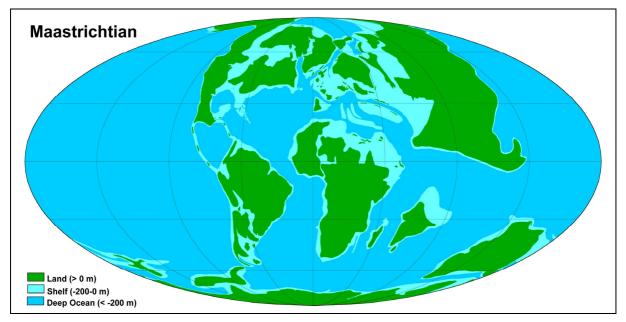


Figure 4.1: Paleogeographic situation in the Maastrichtian (after Ziegler et al. 1997)

The Late Cretaceous constellation of the continents is the result of the breakup of the supercontinents Laurasia in the north and Gondwana in the south during the Jurassic. Between those landmasses a continuous equatorial seaway existed, the Tethyan Ocean. In the Early Cretaceous the southern Atlantic Ocean opened, which still formed a narrow sea in the Late Cretaceous. South America drifted to the west, while Africa and India rotated anticlockwise in a northern direction. In the Tertiary, India collided with Eurasia, resulting in the Himalayan orogeny. The former northern landmass Laurasia split up and the western North America and the eastern Eurasia drifted away from each other.

In the Late Cretaceous North and South America were still divided by a broad seaway and the Caribbean Islands had not yet been formed. Australia was still very close to Antarctica, and formed a landmass together with Papua New Guinea. The Asian region including the Philippines, Malaysia and China was an undifferentiated large complex. The variety of the islands in the modern Pacific Ocean did not yet exist. The north of Africa was flooded by the Mediterranean Tethys, as was the southern part of Europe and the western part of Asia, which resulted in the broad Tethyan seaway.

4.2 Paleoceanography

This section deals with the paleoceanographic situation in the Late Cretaceous and focuses on the sea level, the flow of the paleocurrents and the environmental situation in selected oceanic regions.

Of particular importance is the elevated global sea level, which rose throughout the Mesozoic and reached a maximum in the early Late Cretaceous (Skelton, 2003). It was about 200 m higher than today (Haq et al., 1987; Skelton, 2003). On one hand this was affected by the climate optimum, which resulted in ice-free polar caps, and on the other hand it was caused by the growth of new mid-ocean ridge systems and of an increased production of oceanic crust in the Cretaceous. This produced large areas of uplifted ocean floor, which displaced water from the ocean basins (Briggs, 1995; Skelton, 2003). Among other methods benthic foraminifera might be used as indicators for the reconstruction of paleo sea level (Armynot du Châtelet et al., 2005).

The result of the raised sea level can be seen in the modified distribution of land and sea compared to today (see Figure 4.1). Very striking is the huge shelf area in Eurasia and northern Africa. Apart from the western Iberian Peninsular, northeast Europe and some medium-sized islands, the entire European continent was situated below sea level. In addition, the Iberian Peninsular as well as the southern European countries (Italy, Balkans) was isolated by deep ocean straits. The latter were situated as patches between the Eurasian and the African shelf region. Another huge shelf region dominated the western part of Asia. A shallow water region characterized the North of Africa from Algeria to Egypt, as well as the whole Arabian Peninsular. North America was crossed by the Western Interior Seaway, which spanned from the Gulf of Mexico to the Arctic Ocean. Florida and eastern Mexico were below sea level as well as many parts of southern South America. The Caribbean region was still a broad seaway with two narrow north-south running bars on which small islands developed. In the north of the Indian subcontinent, which was on the same latitude as South Africa, a huge shelf region was located.

Due to the situation in the Tethys between Europe and Africa and the seaway in the Caribbean area, a broad circumglobal connection of the oceans occurred, which inevitably must have influenced the global current system.

The Cretaceous current system often is a topic of detailed researches (Barron and Peterson, 1989; Bush, 1997; Bush and Philander, 1997; Vermeij, 1997; Poulsen et al., 1998; Hay et al., 1999; Pearson et al., 2001; Cousin-Rittemard et al., 2002) in which authors use certain ocean

models (Parallel Ocean Climate Model: Poulsen et al., 1998; Atmospheric General Circulation Model: Bush, 1997). A comparison of all these hypotheses is difficult because the authors mostly used different time slices (Mid-Cretaceous: Barron and Peterson, 1989; Poulsen et al., 1998; Campanian: Hay et al., 1999; Cousin-Rittemard et al., 2002; Maastrichtian: Bush, 1997) with different paleogeographies. Further, the specific models were based on different resolutions (5° x 5°: Barron and Peterson, 1989; 3.6° x 2.0°: Bush, 1997; 2°x 2°: Poulsen et al., 1998; Cousin-Rittemard et al., 2002) and vertical layers (4: Barron and Peterson, 1989; 15: Bush, 1997; 20: Poulsen et al., 1998).

The common feature of all these publications is a westward current flow with varying strength. It seems that the mid-Cretaceous current flow was relatively weak (Barron and Peterson, 1989; Poulsen et al., 1998), but intensified towards the Late Cretaceous. A fundamental determinant for the current strength in the Tethys was the paleogeography of Eurasia (Cousin-Rittemard et al., 2002). The first analysis of the Tethys current was connected with a simple coarse paleogeography (see Gordon, 1973 in Barron and Peterson, 1989), where the Tethys was a broad even element. This resulted in a very weak Tethyan current. With increasing resolution ($2^{\circ} \times 2^{\circ}$) the paleogeographic illustration advanced, and also identified the narrower currents and the gyres, which occur in the Mediterranean Sea, which complicate the current system. Also, Poulsen et al. (1998) showed in several experiments with different paleogeographic patterns that paleogeographic evolution is an important mechanism of climatic and environmental change.

For this work the sea surface currents are of utmost importance, as they affect the distribution of larger foraminifera, either by the dispersion in their larval stage or attached to disrooted seaweeds.

The process of distribution itself was briefly discussed in chapter 3 "Foraminifera", and will be discussed in detail in chapter 5 "Distribution of larger foraminifera".

Several methods can be used to reconstruct the Late Cretaceous ocean surface currents. One is based on the analogy between modern sea surface currents and geography to the Late Cretaceous ones. Another method is the reconstruction by the distribution patterns of marine organisms.

Sea surface currents are influenced by several features such as solar heating, earth rotation, wind systems and the position of the continents (Veron, 1995). Due to the Coriolis force the currents on the northern hemisphere are deflected to the north, and on the southern hemisphere to the south. This results in large gyres in the different oceans on each

hemisphere, which creates a complex current system (Figure 4.2). Here the situation of the continental landmasses is of great importance as it affects the current patterns.

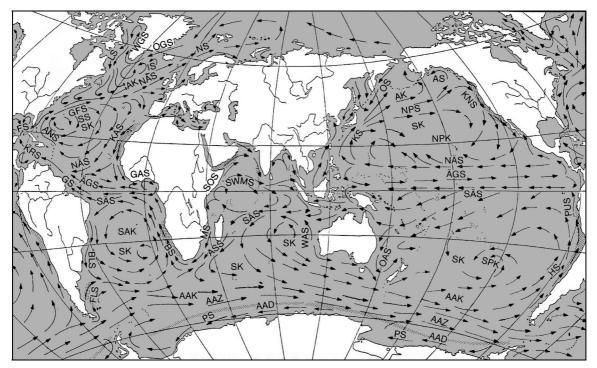


Figure 4.2: Sea surface currents in the modern oceans (after Ott, 1996)

The reconstruction of Late Cretaceous surface currents is based on the assumption that the earth rotation and the great wind systems remain relatively constant throughout history. One main controlling factor of the current system is the paleogeographic situation (Skelton, 2003). Based on these premises and the modern current system, potential current patterns for the Cretaceous can be erected (Figure 4.3).

The Late Cretaceous was characterized by a westward circumtropical current pattern. The equatorial current flowed through the Pacific Ocean and the Indian Ocean in-between India and Asia in a northwestern direction into the Tethys. Afterwards it circulated between Spain and Africa into the Atlantic Ocean, and by passing the broad seaway between North and South America back into the Pacific Ocean. It is quite possible that gyres were present north and south of the equator, which had different qualities depending on the various sizes of the oceans. In the Tethyan region between Europe and Africa there certainly existed a complex current pattern, as a result of the variety of smaller landmasses.

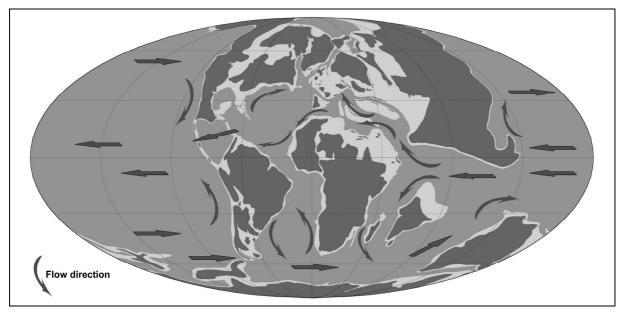


Figure 4.3: Hypothetical current patterns of the Late Cretaceous

The second method of reconstructing the Late Cretaceous current pattern is based on the distribution of marine organisms. In this case the stratigraphic distribution of certain marine taxa is analyzed. Benthic organisms with planktonic larvae (corals, benthic foraminifera) are preferred, as their distribution mainly occurs in a passive way. Either in their juvenile stage via currents or as adults by other mechanisms, for example by disrooted plants. But it has to be kept in mind, that they can also be transported by other organisms like fishes, to which they attach and detach in new environments (see also Lessard, 1980 and literature therein; Murray, 1991, 2006). Their stratigraphic occurrence in different locations can help to reconstruct the ancient current systems.

One part of this work will be to find out if, and to what degree, the biogeographic data of the analyzed larger foraminifera correlate with these models, and if both models agree with each other.

The historical development of some regions which are essential for the distribution of the larger foraminifera is still in discussion and therefore require some explanations.

One of these regions is the Caribbean region. Today, the Caribbean Plate is separated in the North from the North American Plate by transform faults, which cross the Greater Antilles. In the West the Cocos Plate is subducted while in the East the North American and the South American Plate are subducted. To the South the Caribbean Plate is separated from the South American Plate by complex zones of deformation (Skelton, 2003). Several models for the development of the Caribbean Plate exists, some of which (Pindell, 1994; Kerr et al., 1999)

are introduced in Skelton (2003), but most of the authors favor an origination of the plate in the Pacific Ocean in the Cretaceous with an eastward movement between the Americas (Skelton, 2003). Great affinities between the foraminiferal content of the Caribbean and the central Pacific led to the conclusion that those locations were in a close connection during the Cretaceous. Several authors (Schlanger and Premoli Silva, 1981; Premoli Silva and Brusa, 1981 and literature therein) support the theory that these locations were situated much closer together in the Late Cretaceous than they are today and that shallow-water "stepping stones" facilitated the distribution of the foraminifera.

4.3 Paleoclimatology

For this work, the paleoclimate is of utmost importance as it regulates the temperature of the shallow water areas to which the larger foraminifera are restricted. As discussed in chapter 3 "Foraminifera" these organisms are restricted to the subtropical and tropical regions. The climate depends on many factors, which affect each other, such as the continental configuration, sea level, orography, ocean gateways, bathymetry, etc. (Crowley, 1998). The average global annual surface temperature in the Late Cretaceous was around 14.8-16.2° C, with a CO₂ content of 340 ppm [= present atmospheric level (PAL)], and around 18.4-20.4° C with an elevated CO₂ level of 2-3.5x PAL (Fawcett and Barron, 1998).

In this chapter I will concentrate on the sea surface temperature (SST) of the shallow shelf regions, as these are the habitats of the larger foraminifera. In the Late Cretaceous tropical sea surface temperatures were estimated to be about 30° C (Pearson et al., 2001; Skelton, 2003). A simulation of the surface water temperature of Hay and DeConto (1999) revealed $32-34^{\circ}$ C in the Campanian equatorial areas (0-15° N and S) and about 8-16° C in polar regions (66.5- 90° N and S), while analyses of δ^{18} O values of rudist bivalves indicate seasonal extremes up to 37° C in the upper Turonian-Coniacian and lower Campanian (Steuber et al., 2005). Haupt and Seidov (2001) described two different climatic scenarios of the Late Cretaceous, which are based on publications of Poulsen et al. (1998) and Poulsen (1999). The first intermediate Cretaceous scenario places sea surface temperatures in the northern subpolar ocean at 6° C and in the southern subpolar ocean at 12° C, while the equatorial SST was approximately 28° C (Poulsen, 1999). The second warm Cretaceous scenario is characterized by temperatures of 20° C in both subpolar regions, whereas the equatorial SST was about 31° C (Poulsen, 1999). Both scenarios are possible in view of the minimal temperature requirements of larger foraminifera.

A new method, called TEX₈₆ (analyses of the composition of lipids in the membranes of Crenarchaeota) revealed an icecap-free Arctic sea in the Late Cretaceous (70 Ma) with an average SST of 15° C. This implies an equator to pole gradient SST of about 15° C, which results in equatorial ($\sim 5-10^{\circ}$ S) sea surface temperatures of 27-32° C. An explanation for the warm Cretaceous is a high concentration of atmospheric carbon dioxide resulting from high rates of volcanic outgassing (Jenkyns et al., 2004; Poulsen, 2004).

Suitable indicators for a warm marine climate are the huge and numerous carbonate platforms, which existed in the tropical and subtropical regions of the Late Cretaceous (Figure 4.4). In the Late Cretaceous carbonate platforms extended beyond the 30° latitudes, whereas

modern carbonate platforms are restricted to a much narrower latitudinal belt. The distribution seldom passes the 30° latitudes (Simo et al., 1993).

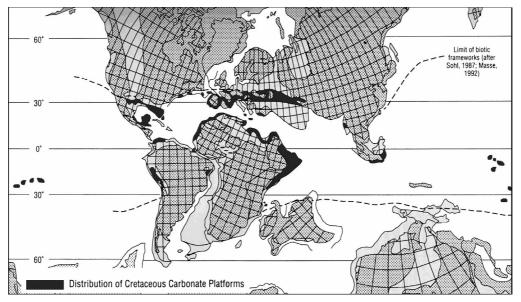


Figure 4.4: Cretaceous Carbonate platforms (Simo et al., 1993)

Since pronounced carbonate precipitation is governed by water temperature the position of the carbonate platforms (Figure 4.4) can provide clues to the occurrence of the larger foraminifera. In the Late Cretaceous Carbonate Platforms are known from the shelf regions along the North African coastline from Somalia to Mauritania and in the shallow water areas in the European Tethys between Portugal and South Russia. Further Carbonate Platforms existed in the Caribbean area and along the east and west coast of South America to Brazil and Peru. In Asia, carbonates are recorded from the tip of the continent, as well as some patches in the southern Pacific Ocean (Simo et al., 1993; Skelton, 2003).

Based on the Late Cretaceous Paleogeography (Figure 4.1), the hypothetical sea surface currents (Figure 4.3) and the distribution of the Carbonate Platforms (Figure 4.4), assumptions about the distribution of Late Cretaceous larger foraminifera can be made (see also Skelton, 2003).

4.4 Paleoecology

This chapter deals with the paleoecology of the analyzed larger symbiont-bearing foraminifera. As this work focuses on fossil genera from the Late Cretaceous only hypothesis about the behavior and the habitat can be made. No direct investigation is possible, but often an indirect interpretation can be made by the analysis of the morphology, the surrounding lithology, comparison to modern relatives, or a combination of these features.

The first possibility is a comparison with extant members of the same family, e.g. *Siderolites* as a member of the extant family Calcarinidae Schwager. The modern genera *Baculogypsina* and *Calcarina* live attached to hard substrates, in high energetic environments (Hallock et al., 1991; Hohenegger, 1996; Hohenegger and Yordanova, 2001). Their fossil relatives *Siderolites* have probably lived in the same habitat, which is suggested by their similar morphology (Hohenegger, 1999). The lithology, in which the fossil is embedded, can give hints to the consistency of the sediment and the paleoenvironmental situation of the ancient organisms. A sandy lithology, for example, refers to a nearshore, eventually unprotected habitat, often with terrestrial influence. Interpretation of the morphology constitutes one of the most reliable ways to draw conclusions about paleoecology. Both, the modern calcarinids and the fossil *Siderolites* have large spines, which are a tool for attachment in areas of high energy.

Analysis on a generic level creates some difficulties for paleoecological interpretation, as the environmental constrains and requirements may differ on species level. This can be demonstrated in the fossil genus *Lacazina*. *Lacazina compressa* shows a short thick morphology and lived at depths to around 40 m, where it seemed to prefer an environment of high water energy and hard substrate (Hottinger, 1983). However, the smaller elongated form *L. elongata* is interpreted to have lived in depths from 40 to 80 m in regions of low water energy on soft substrate (Hottinger, 1983). Due to these difficulties, this work will focus on general statements, which require further analyses on species level.

The paleoenvironment of larger symbiont-bearing foraminifera has been the subject of several studies (e.g. Hottinger, 1983; Caus, 1988; Hallock, 1999; Hohenegger, 1999), which have attempted to understand the biology of these organisms.

Caus (1988) provided a milieu interpretation for Late Cretaceous larger foraminifera of the Pyrenean neritic platform. Four basic assemblages of larger foraminifera were distinguished: 1) restricted shelf with abnormal salinity (lagoons and intertidal zones), *Laffitteina* in lagoonal facies types; 2) protected shelf with normal salinity (carbonate and terrigenous facies): two

different assemblages on the protected carbonate shelf; 2a) a shallower one, 0-40 m; discoidal agglutinated larger foraminifera, porcelaneous foraminifera (predominance of complex Miliolidae and thickwalled, evolute Meandropsinidae), rotaliids; *Lacazina compressa*; 2b) increasing depth, 40-60 m; conical forms; *Dictyopsella*, *Lacazina elongata*; 3) reefs, shoals and bars; larger foraminifera are adapted to high energy; Siderolitinae, thick orbitoids; 4) open marine shelf; perforate larger foraminifera; *Lepidorbitoides*, *Clypeorbis*, *Sirtina*, Siderolitinae. The interpretation of these environments and the assignment of larger foraminifera might be transferred to similar regions and may be used to understand the paleoenvironment and the foraminiferal content.

Hottinger (1983) analyzed the test morphology of larger foraminifera in relation to the depth of the habitat and postulated the following succession with increasing depth: conical-agglutinated => discoidal porcelaneous => fusiform porcelaneous => thickly lenticular-perforate => flat lenticular- or discoidal-perforate types.

Further, there are some morphological features of larger foraminifera that indicate certain habitats. Some of those are listed below concerning the analyzed larger foraminifera.

- Rotaliids: on the bottom sediment (Reiss and Hottinger, 1984)
- Alveolinids: high energy zones of the shallow ramp (Hohenegger, 1999): Subalveolina
- discoidal agglutinated: epiphytic (Reiss and Hottinger, 1984): Clypeorbis
- lateral chamberlets only on one side of the shell: chamberlets are located on the illuminated dorsal side, opposite to the apertural face always directed towards the substrate (Hottinger, 1997): *Sirtina*
- annular growth and orbitoidal test construction: deeper environments (Hohenegger, 1999): *Orbitoides, Hellenocyclina, Lepidorbitoides*
- 'calcarinid' *Siderolites* possibly lived attached to hard (organic?) substrates analogous to its recent relatives (Hohenegger, 1999)
- thick tests or porcelaneous structures, making the walls impenetrable, block high irradiation: intertidal and extremely shallow subtidal environments (Hohenegger, 1999)
- thin transparent test walls facilitating light penetration (Hohenegger, 1999)
- light-collecting mechanisms (e.g. nodes, pillars) facilitate light penetration: near the base of the photic zone (Hohenegger, 1999)

5 Distribution of Larger Foraminifera

The distribution of the benthic larger foraminifera depends mainly on warm water ocean currents. As mentioned in chapter 3 "Foraminifera", the only active movement of adult foraminifera is by the use of pseudopodia, which is not very effective. In the juvenile stage foraminifera might be transported by ocean currents, but this stage is of such a brief duration that it can be disregarded as a major dispersal factor (Adams, 1967). The most probable method of distribution is rafting of individuals, or of small colonies, on seaweed to which they are attached or hidden in rhizomes. This kind of distribution is important to those benthic larger foraminifera which have lived attached to leaves or roots and which have shared the same environment as seagrass. The belonging to a general habitat is difficult, because the tolerance of desiccation, turbidity, current agitation, sediment thickness, grain size, humic content, light intensity and periodicity and temperature are species-dependant (Brasier, 1975 and literature therein). Most seagrass is found below mean low water and above 12 m depth, and some forms are tolerant to hypersaline conditions (Brasier, 1975 and literature therein). The first reported seagrass-like fossils are protozosteroids and cymodoceoids from the Late Cretaceous of Japan and northern Europe (Figure 5.1; den Hartog, 1970; Eva, 1980).

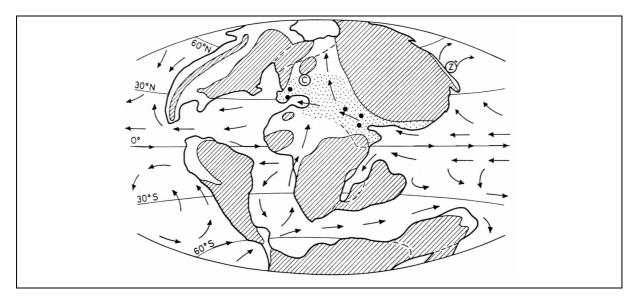


Figure 5.1: Occurrence of Late Cretaceous seaweed; (c) fossil cymodoceoids, (z) protozosteroids, black circles: records of possible seagrass-dwelling foraminiferids, stipples: inferred distribution of "tropical" seagrass (after Brasier, 1975)

The distribution of Cretaceous seaweed is debatable. While Brasier (1975) supports the theory that the Cretaceous distribution is confined to the Tethyan area, Eva (1980) concluded from

the similar morphology of the foraminiferal genera *Chubbina* and *Pseudedomia*, that the Caribbean *Chubbina* indicates also the presence of seagrass in the Caribbean area. This would explain the distribution of global occurrences of foraminifera, but for a definitive statement more Cretaceous fossils of seaweed are necessary.

Another important factor for the distribution of larger foraminifera is the temperature in the prevailing sea surface currents. Due to the requirements of their endosymbionts foraminifera are restricted to warm water. Langer and Hottinger (2000) discovered that recent larger foraminifera require temperatures above 14° C (Figure 5.2).

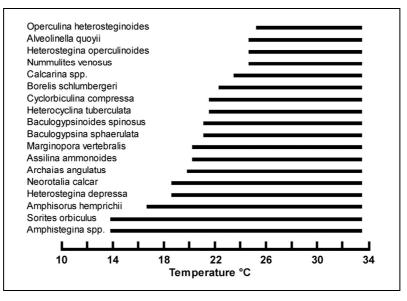


Figure 5.2: Temperature ranges of selected recent larger foraminifera (after Langer and Hottinger, 2000)

Adams (1967) argued that even the modern sea surface currents are warm enough to permit the transport of larger foraminifera. As discussed in chapter 4.3 "Paleoclimatology", in the Late Cretaceous the global temperature reached a maximum (Skelton, 2003), which implies that the sea surface temperature was also higher. This must have been sufficiently warm enough for larger foraminifera to survive a passage across the oceans. In the new environment they certainly must have found a suitable habitat to settle and to reproduce.

Finally, the existence of suitable sea surface currents is necessary for the distribution of larger foraminifera. In chapter 4.2 "Paleoceanography" the different models of currents were presented. The hypothetical sea surface currents of the Late Cretaceous (Figure 4.3), which were established on these models, clearly show that a worldwide distribution via sea surface currents was possible.

6 Faunal Provinces

Adams (1967, p. 198) gave the following definition of a Faunal Province: "...each of which is characterized by the presence of genera and species of marine invertebrates not found in the others, although all possess some elements in common."

The faunal provinces of larger foraminifera have been only sparsely examined. The global distribution patterns of selected recent larger foraminifera were analyzed by Langer and Hottinger (2000) while Adams (1967, 1983, 1989) studied patterns from the Tertiary. All authors established Faunal Provinces for larger foraminifera relevant to the time span, which they covered.

Modern Faunal Provinces

Langer and Hottinger (2000) erected four Faunal Provinces for modern larger symbiontbearing foraminifera: 1) Inner, Central Pacific province, 2) Central Indopacific realm, 3) Western Indian Ocean including the Red Sea and the Persian Gulf, and 4) Caribbean realm (Figure 6.1).

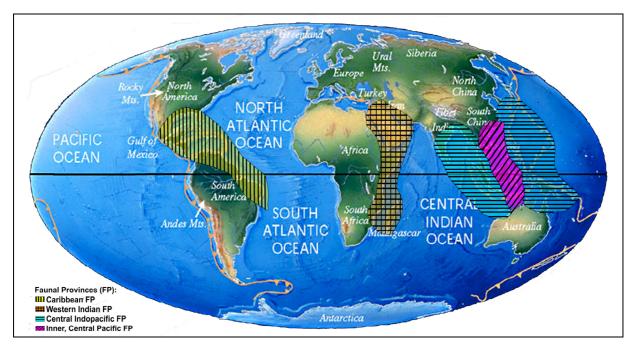


Figure 6.1: Faunal Provinces of modern larger symbiont-bearing foraminifera (modified after Langer and Hottinger, 2000, and http://www.scotese.com/modern.htm)

These faunal provinces are situated in a belt, which ranges between 36° North and 34° South. They are divided by barriers, which consist on the one hand of the longitudinal extension of the continents America and Africa, on the other hand by oceanic circumstances. These include the great distances of the oceans as well as the prevailing current patterns. Gyral systems exist in the northern and in the southern hemisphere, which are separated from each other by the landmasses and by the equatorial currents. These systems form cells, with the interior cut off from the exterior inflow (Langer and Hottinger, 2000).

Lessard (1980) analyzed the Pacific Ocean concerning its migration potential for microorganisms and established four sectors (Figure 6.2).

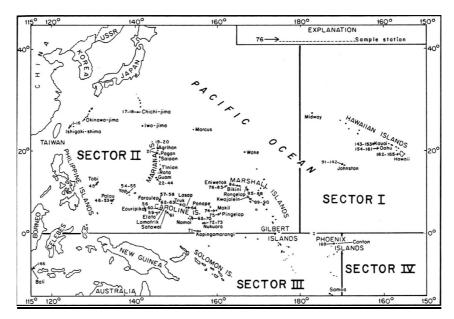


Figure 6.2: Subdivision of the Pacific Ocean in four sectors (after Lessard, 1980)

Sector I and II are separated from sector III and IV by the Equatorial Current. A migration between sectors I and II is prevented by the gyre in the northern Pacific Ocean, which is formed by the Northern Equatorial Current and the Northern Pacific Current. Sectors III and IV on the southern hemisphere are separated by a gyre, which results from the Southern Equatorial Current and the Antarctic Circumpolar Current. Sectors I and IV are characterized by few islands which are widely distributed, while in sectors II and III many islands are situated closely together. The situation in sector II and III results in a complex current pattern which facilitates a fast and wide distribution in the Indopacific region, which can be verified by the distribution of recent larger foraminifera.

Tertiary Faunal Provinces

In the Tertiary the global belt in which larger foraminifera occurred was much broader than today. It extended between 50° North to 50° South (Adams, 1967). This might be linked with

the climate, which was much warmer than today (Skelton, 2003). Adams (1967, 1983) established three Faunal Provinces for larger foraminifera from the Tertiary (Figure 6.3): 1) Central America, 2) Tethys, and 3) Indo-West Pacific. These Faunal Provinces cannot be strictly separated from each other. Elements of the Central American Province can also be found in Western Africa where they are merged with elements of the Mediterranean Province. The same situation exists in the region of the Near East, where the Mediterranean and the Indo-West Pacific Province mingle. Further, Adams (1967) mentions that the Mediterranean can be further divided into two parts: 1) the modern Mediterranean in the West and 2) an eastern region, which comprises the area east of Iran and Iraq. The center of dispersal in the Paleogene seems to be in the western Tethys were no endemic genera existed (Adams, 1967).

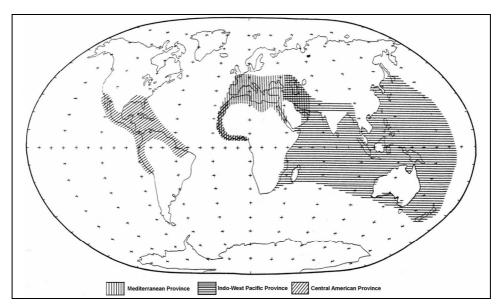


Figure 6.3: Faunal Provinces of larger foraminifera during much of the Tertiary (after Adams, 1983)

Although there existed great barriers between the Faunal Provinces, in the form of oceans, some genera are represented in all three provinces, and some genera are restricted to one province (Adams, 1967). This distribution was probably made possible by the rafting of seaweed, to which foraminifera were attached, and which was torn off by storms (Adams, 1967). Crossing the Atlantic Ocean by means of the Gulf Stream would appear to be much easier through this mechanism in comparison to crossing the eastern Pacific Ocean, where the lack of islands prevented the distribution.

Cretaceous Faunal Provinces

No global faunal provinces are established yet for the Cretaceous. Only Hottinger et al. (1989) recognized a Pyrenean Faunal Province during the Santonian and Campanian. It ranges between the Cantabrian shelf, the Gulf of Marseille and the shelf bordering the Betic Cordilleras. This area is defined by the occurrence of strictly endemic, shallow-water genera of larger complex foraminifera. In the recent literature often only local associations of larger foraminifera were analyzed (e.g. Seiglie and Ayala-Castanares, 1963; Ismail and Boukhary, 2001; Abdelghany, 2003) and few authors examined the distribution of a certain genus beyond a regional distribution (e.g. Pfender, 1935; Meric, 1967; Neumann, 1997).

7 Diversity Pattern

Before discussing methods and patterns of diversity, this term should be defined. The term "biodiversity", composed of "biological diversity" was created by W.G. Rosen in 1986 in context with the conference "National Forum of Biodiversity" by the National Academy of Sciences in Washington D.C. The United Nations Convention on Biological Diversity defines "biodiversity" as "the variability among living organisms from all sources, including, inter alia, terrestrial, marine, and other aquatic ecosystems, and the ecological complexes of which they are part; this includes diversity within species, between species and of ecosystems".

Studies of diversity have been the focus of research for both, terrestrial habitats as well as in marine biomes. It is controlled by a number of factors, which needs to be kept in mind when analyzing diversity pattern. Temperature, for example, increases towards the equator, and the ratio of land to sea is larger in the northern hemisphere than in the southern hemisphere. Further attributes are the available space, solar irradiation, wind, and current systems.

One method for expressing diversity is the relationship of diversity to the latitudinal gradient. Rosenzweig (1995) analyzed the percentage of known fossil foraminiferal species against latitude (Figure 7.1). It is remarkable that the highest values occur in the low-latitude regions. In this illustration, however, the number of occurring but unknown species is not given.

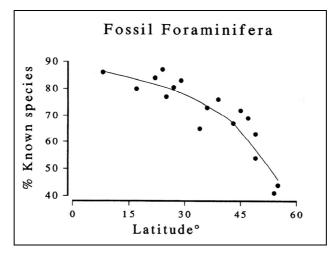


Figure 7. 1: Distribution of fossil foraminiferal species in relation to the latitude (Rosenzweig, 1995)

A subject of particular interest is the location of the "hotspot" of diversity. This hotspot is characterized as the location with the highest diversity of all examined organisms. For many marine organisms, living in shallow water of the subtropics and tropics, the modern hotspot of diversity is situated in the Indopacific region (Briggs, 1995).

This is also observable in the diversity of recent larger foraminifera (Figure 7.2), which were analyzed by Langer and Hottinger (2000). It is clearly visible that the maximal diversity (27 genera) lies in the area of the Indopacific Islands. The diversity decreases to the margins, and the decline is stronger to the East than to the West. In the Caribbean the diversity is also elevated (9 genera) but it is still three times lower than that in the Indopacific.

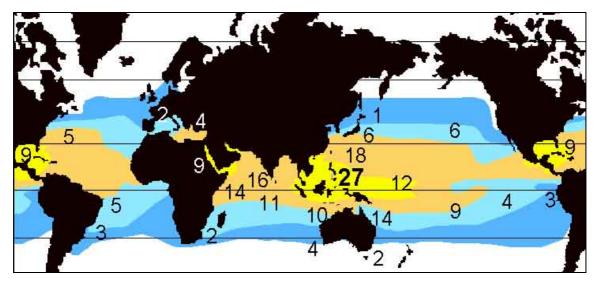


Figure 7.2: Generic diversity of Recent larger foraminifera (after Langer and Hottinger, 2000)

In the background of the map, the sea surface temperature of the oceans in August is displayed, with the highest temperatures in the Indopacific Ocean, in the Caribbean and around the Arabian Peninsular. It is easy to recognize that the diversity follows the temperature gradient.

The marine diversity pattern of tropical and subtropical larger foraminifera is congruent with the known pattern of other tropical organisms, as for example mangroves (Figure 7.3) and hermatypic corals (Figure 7.4).

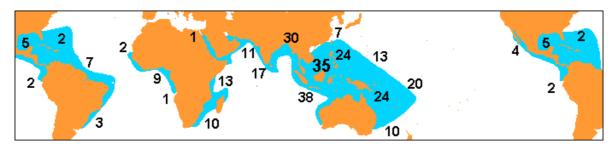


Figure 7.3: Global biodiversity of mangrove taxa on species level (Langer, unpublished after data from Rosen, 1988)

These groups of organisms were chosen because they prevail in similar ecological conditions as larger symbiont-bearing foraminifera. Mangroves are also restricted to the coastal shallow regions of the tropics and subtropics. The center of diversity is clearly observable in the western part of the Indopacific region with values of 35 and 38 species. The diversity decreases towards the margins of the shelf region. In the Indian Ocean the diversity is still high due to the presence of shelf regions along the coasts of India, the Arabian Peninsular and Africa. The Pacific Ocean does not show such a high diversity, which is due to the fact that the shelf regions are distinctly smaller. In the Caribbean region, the shelf region has a moderate diversity but this is seven times lower than in the Indopacific region.

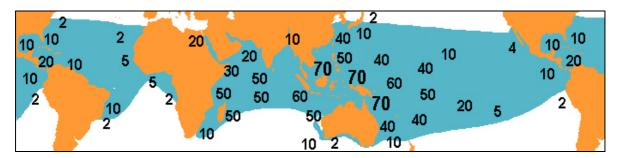


Figure 7.4: Global biodiversity of hermatypic corals on generic level (Langer, unpublished after data from Veron, 1995)

The other group of organisms under consideration is hermatypic corals. Like larger foraminifera they also possess endosymbionts and therefore are restricted to the shallowmarine euphotic zones of the tropical and subtropical shelf regions. The observations of corals are based on generic level. Here again the center of diversity is located in the Indopacific region with values of up to 70 genera. The global pattern of biodiversity is analogous to that of mangroves and larger foraminifera. The diversity decreases toward the Pacific and Indian Oceans, with the latter showing a higher diversity than the former. In the Caribbean Ocean, the diversity is again seven times smaller than in the hotspot of diversity.

In the previous analyses of mangroves and hermatypic corals it is important to recognize that the diversity of mangroves is based on species level while that of hermatypic corals is based on generic level. But it is clearly visible that the schemes of diversity are identical on both levels.

In all organisms analyzed (larger foraminifera, mangroves and hermatypic corals) the center of diversity is situated in the Indopacific core region (= hotspot). These comparable patterns of diversity lead to the conclusion that common controlling features are responsible for this situation.

If we compare the occurring diversity pattern with prevailing environmental features, the following facts are clear:

1) The center of diversity of all the analyzed organisms (larger foraminifera, mangroves, and hermatypic corals) is situated in the Indopacific region. In those specific areas the highest percentage of reefs occur (Figure 7.5). The Asiatic region comprises 29.4 % of the world reefs, followed by the Indian Ocean (23.6 %) and the South Pacific (12.4 %). The Caribbean region contains 9.2 % of the world reefs, which is three times lower than in the Asiatic region. This is consistent with the diversity values of larger foraminifera and hermatypic corals, which are also three times lower. For mangroves the Caribbean value is seven times lower than in the Asiatic region. Thus it is highly likely that availability of shallow water areas influences diversity.

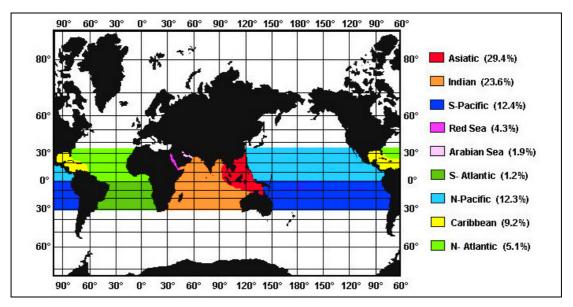


Figure 7.5: Percentage of the world reef region (after Langer, unpublished)

2) In the Indopacific region, the annual sea surface temperature is high throughout the year (Figure 7.6). The water temperature in the hotspot of diversity is characterized by a consistent value of 28° C. This is due to shallow water regions with strong solar irradiation, which heats the water body. This raised temperature strongly influences the diversity. As already mentioned above, diversity reflects a high specification rate. Specification is a result of genetic mutations, which are biochemical reactions, and therefore directly affected by the temperature.

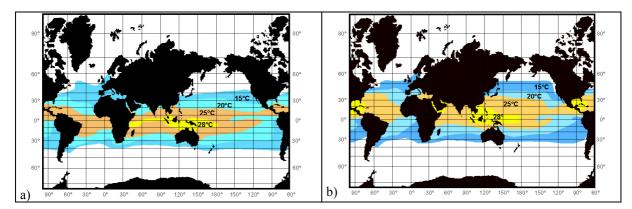


Figure 7.6: Sea surface temperatures of the world oceans in a) February and in b) August (after Langer, unpubl.)

3) In the Late Cretaceous the paleoceanography was dominated by a circumtropical seaway, part of which was the Tethys. After the closure of the seaways between South and North America and Eurasia and Africa this current system strongly changed. The Indopacific region is, so to speak, a relict area of the Tethys (Briggs, 1995). The influence of the paleogeographical changes was much weaker in the Indopacific Ocean, than for example in the Mediterranean Ocean, which became an enclosed basin with a decrease in temperature (Briggs, 1995). The main feature in the Indopacific Ocean, however, is a shallowing of the sea with an establishment of a huge region of shelf areas. This resulted in an establishment of many new habitats, where a lot of new species could occur. Therefore, it harbors old and new taxa together, which results in a higher diversity.

Results: Biogeographic Distribution of the Genera

8

This section deals with the biogeographical distribution of selected genera of symbiontbearing larger foraminifera. For each genus several aspects such as description, illustration, species, age, biology, biogeographic distribution, and remarks are given. As was described in chapter 3 "Foraminifera" Loeblich and Tappan (1992) raised the rank of Foraminifera from order to class. Despite this fact, for reasons of clarity the suprageneric classification of this chapter will follow Loeblich and Tappan (1988). The description of the genera presents the diagnostic features, which were used for identification of the specimens. The dimension of the tests is usually species-specific, but to give a general impression of the size, the minimal and maximal values – if given - are provided. In the illustrations several different views are given. They were mainly taken from the literature. Generally two external views from different sides are given as well as illustrations of an equatorial and an axial section. In several cases the diagnostic features got more distinct by three-dimensional drawings. Although this perusal is on generic level the species of a genus are listed beneath the type specimen and synonyms in order to be able to verify the results of the biogeographic distribution on species level. References marked with "+" could not be completed by several reasons (e.g. literature not available etc.). The next section deals with the occurrence of the genus in different time slices (Pre-Santonian, Santonian, Campanian, Maastrichtian, Paleogene). In this section data are interpreted to provide a potential chronological distribution. Further, the biology of the genus is discussed. This discussion considers the following issues: The requirements can be strikingly different among species of a genus, so that it is sometimes not possible to give a general biological interpretation. The genera under consideration are all extinct, therefore a direct observation of the habitat is not possible. However, the analysis of environmental milieu or the associated fauna can give hints to the habitat. Moreover, the morphology of the foraminifera can give useful hints when it is compared with the appearance of modern relatives. In the chapter "biogeographic distribution" the locations and citations in the literature are listed. Underlined citations refer to references, which contain illustrations of the genus. Senonian and undifferentiated Late Cretaceous records are marked with "*". In the "Remarks" section a short discussion is given about the literature in which the genus is not illustrated or in which the treated genus is illustrated but where I do not agree with the classification. Finally additional important and interesting facts are given.

8.1 Spirocyclina

Suborder TEXTULARIINA Delage and Hérouard, 1896 Superfamily LOFTUSIACEA Brady, 1884 Family SPIROCYCLINIDAE Munier-Chalmas, 1887 Genus SPIROCYCLINA Munier-Chalmas, 1887 emend. Maync, 1959

8.1.1 Description

Munier-Chalmas erected the genus *Spirocyclina* in the year 1887. The lectotype is from Les Martigues, Etang de Berre with a Santonian age. The test of *Spirocyclina* is flat, with planispirally enrolled chambers that become peneropline in the adult stage. The diameter ranges between 1.82 mm and 10 mm. The thickness in the center varies between 0.25 mm and 0.45 mm. The chambers are narrow and strongly curved. They are subdivided by numerous chamberlets. The last rows of chambers can be detached from the preceding whorl. The wall is agglutinated.

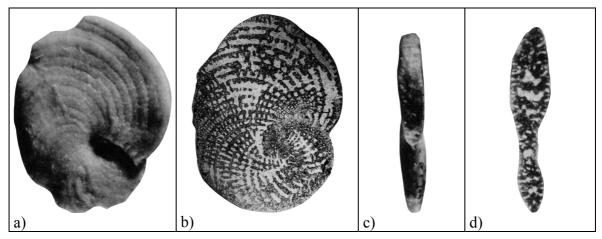


Figure 8.1: a) - d) S. choffati Munier-Chalmas emend. Maync; a) - d) Maync, 1959

8.1.2 Species

Type species: Spirocyclina choffati Munier-Chalmas, 1887⁺

Synonyms: *Spirocyclina* Munier-Chalmas, 1887⁺

Species: S. choffati Munier-Chalmas, 1887 emend. Maync, 1959; p. 38; pl. 1, figs. 1-10

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
FRA (31)	Х	Х			
POR (39)	Х				
RUS (42)	Х				

8.1.3 Age

Figure 8.2: Stratigraphic range of the genus *Spirocyclina* in its reported localities

In the Early Cretaceous *Spirocyclina* is documented from sites in Portugal, France, and Russia (not illustrated). In the period under consideration it is only known from Les Martigues (31; France) where it occurs till the Santonian. Maync (1959) reported the genus from the Senonian, without giving a precise biostratigraphic age like Marie (unpubl. data) who refers *Spirocyclina* from the Late Cretaceous. For this genus it is not possible to identify an origination center, as there are Pre-Santonian records from the East and the West of the Mediterranean Tethys. During the Santonian it is only reported from France.

8.1.4 Biology

The ecological preferences for a specific habitat of *Spirocyclina* are not fully resolved to date since no interpretation of the habitat or associated fauna is given in the literature. The genus appears to favor shallow-water algal sites down to the limit of the photic zone. It may have lived as an epiphyte on plant substrates (Langer, 1993). It is often associated with shallow-water taxa like *Lacazina*.

8.1.5 Biogeographic distribution and Faunal Province

In the time from Santonian to Maastrichtian individuals of the genus *Spirocyclina* were found in the following localities (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

France (31): *<u>Maync, 1959; Gendrot, 1965; Loeblich and Tappan, 1988;</u> *Marie, unpubl. Southern Europe: Dilley, 1973

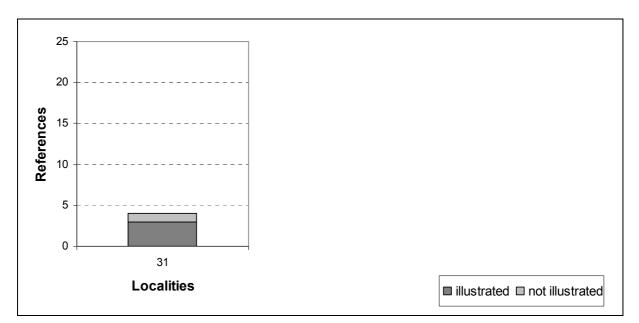


Figure 8.3: Number of illustrated and not illustrated references in the localities of Spirocyclina

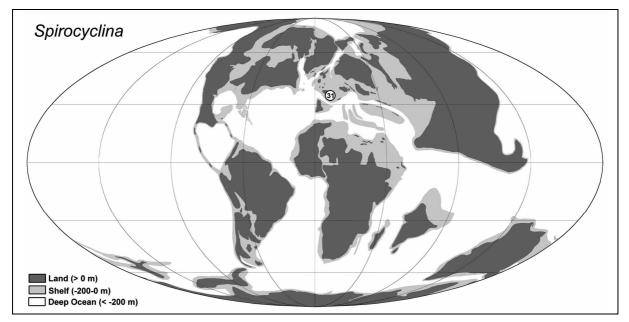


Figure 8.4: Global distribution of Spirocyclina in the Late Cretaceous

Spirocyclina is currently only known from France. Therefore it belongs to the "European Tethys" Faunal Province ranging from the Pyrenees to Marseille.

8.1.6 Remarks

The specimens of *Spirocyclina choffati* Munier-Chalmas documented by Schlumberger and Choffat (1904; pls. 9, 10) do not belong to the genus *Spirocyclina* and are therefore not included here. A detailed historical review of the genus *Spirocyclina* was presented by Maync (1959).

8.2 Loftusia

Suborder TEXTULARIINA Delage and Hérouard, 1896 Superfamily LOFTUSIACEA Brady, 1884 Family LOFTUSIIDAE Brady, 1884 Genus LOFTUSIA Brady, 1869

8.2.1 Description

Brady (in Carpenter and Brady, 1869) defined the new genus based on material from the Lower Tertiary of Iran. The age was later corrected by Douvillé (1904) in being Maastrichtian.

The test of *Loftusia* is ovoid to fusiform with an elongated axis of coiling. The length ranges between 2 mm and 120 mm, while the diameter varies from 1 mm to 42 mm (Meric and Görmüs, 2001). The test consists of up to 14 whorls, but differs from species to species. The septa of the chambers are distinctly curved. Further pillars can subdivide the chambers. The wall is agglutinated.

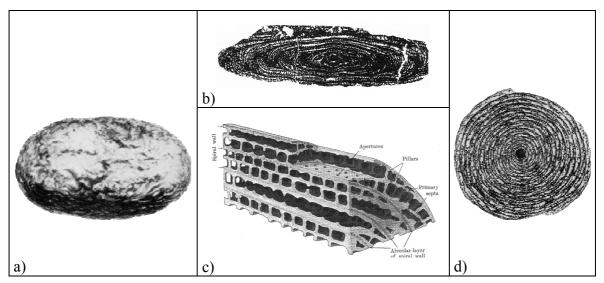


Figure 8.5: a), c), d) *L. persica* Brady, b) *L. minor* Cox; a), d) Carpenter and Brady, 1869, b) Meric et al., 2001, c) Cox, 1937

8.2.2 Species

Type species: *Loftusia persica* Brady, in Carpenter and Brady, 1869; p. 751; pl. 77, figs. 1-5; pl. 78, pl. 79, figs. 1-5; pl. 80, figs. 1-4

Synonyms: *Loftusia* Brady, in Carpenter and Brady, 1869; p. 751

Species: L. anatolica Meric, 1965⁺

- *L. arabica* El-Asa'ad, 1989⁺
- L. baykali Meric, 1965⁺
- L. coxi Henson, 1948⁺
- L. elongata Cox, 1937; p. 443; pl. 33, fig. 2; pl. 35, figs. 1,2
- L. harrisoni Cox, 1937; p. 447; pl. 33, fig. 4; pl. 36, figs. 4-6
- L. kahtaensis Meric, 1967⁺
- L. ketini Meric, 1979⁺
- L. matsumarui Meric and Görmüs, 2001; p. 44; pl. 9, figs. 8-13
- L. minor Cox, 1937; p. 446; pl. 33, fig. 5; pl. 36, figs. 1-3
- L. morgani Douvillé, 1904; p. 550⁺
- L. occidentalis Milovanovich, 1938⁺
- L. oktayi Meric, 1967⁺
- *L. persica* Brady, 1869; p. 751; pl. 77, figs. 1-5; pl. 78; pl. 79, figs. 1-5, pl. 80, figs. 1-4
- L. turcica Meric and Avsar, 1992⁺

8.2.3 Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
SAU (22)				Х	
OMN (23)			Х	Х	
QAT (24)				Х	
YEM (25)				Х	
SOM (26)				Х	
IRQ (27)				Х	
SYR (28)				Х	
ITA (35)				Х	
GRC (36)				Х	
YUG (37)				Х	
TUR (38)				Х	
IRN (56)				Х	?
MKD (60)		?	?	?	
HRV (62)		?	?	?	

Figure 8.6: Stratigraphic range of the genus Loftusia in its reported localities

The earliest stratigraphic report of *Loftusia* is from Oman (23; Abdelghany, 2003) with a Campanian age. The main occurrence is in the Maastrichtian. Meric and Görmüs (2001) and Meric et al. (2001) did a detailed analysis of the different species of *Loftusia* concerning their

age. Thus it became possible to use species of *Loftusia* for biozonation for the Maastrichtian in the Middle East:

Early Maastrichtian: L. arabica

Middle Maastrichtian: L. coxi, L. elongata, L. harrisoni, L. ketini, L. matsumarui, L. minor, L. occidentalis, L. persica, L. turcica

Late Maastrichtian: L. anatolica, L. baykali, L. kahtaensis, L. morgani, L. oktayi

There are also doubtful post-Cretaceous records from Iran (56). While Carpenter and Brady (1869) established the genus with a Lower Tertiary age, the record of Douvillé (1904) ought to have a Middle Lutetian age. Unfortunately the record of Douvillé (1904) cannot be verified by an illustration. From Macedonia (60; Meric and Görmüs, 2001; Meric et al., 2001) and Croatia (62; Meric et al., 2001) no stratigraphic age is given. It seems that the origination center of *Loftusia* is situated in Oman from which it dispersed to the entire eastern Tethys.

8.2.4 Biology

In Oman *Loftusia* is associated with *Orbitoides*, *Omphalocyclus*, and *Lepidorbitoides* (Abdelghany, 2003), in Iran with *Omphalocyclus* and *Orbitoides* (Cox, 1937), in Turkey with *Orbitoides*, *Siderolites*, *Omphalocyclus*, *Sirtina*, *Lepidorbitoides*, *Hellenocyclina* and *Laffitteina* (Özcan, 1993; Sirel, 1996; Özcan and Özkan-Altiner, 1997). The lithological occurrences of *Loftusia* vary between limestone, sandy limestone and sandstone. Both, lithology and faunal association, indicate a shallow-water environment from low to higher energetic setting. Meric and Görmüs (2001) argue for coastal and fore-reef environments, while Inan (1996a) interprets a back reef environment. These differences are based on observations from different species, but the morphology of *Loftusia* indicates that this genus is able to withstand high-energetic environmental conditions. In analogy to the environmental preferences of modern fusiform genera like *Alveolinella* or *Borelis* (Lipps and Severin, 1984; Severin and Lipps, 1989; Langer and Lipps, 2003) it appears plausible that *Loftusia* may have favored well-lit mostly oligotrophic conditions in reefal settings down to a depth of 30 meters.

8.2.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Loftusia* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Saudi-Arabia (22): Fleury et al., 1985; Meric and Görmüs, 2001; Meric et al., 2001

- Oman (23): Cox, 1937; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001; Abdelghany, 2003
- Qatar (24): Fleury et al., 1985; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001
- Yemen (25): Fleury et al., 1985; Sartorio and Venturini, 1988; Fleury et al., 1990

Somalia (26): Fleury et al., 1985; Fleury et al., 1990

- Iraq (27): <u>Al-Omari and Sadek, 1976;</u> Fleury et al., 1985; Fleury et al., 1990; <u>Meric and Görmüs, 2001; Meric et al., 2001</u>
- Syria (28): Fleury et al., 1985; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001
- Italy (35): Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001
- Greece (36): Fleury et al., 1985; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001
- Yugoslavia (37): Fleury et al., 1985; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001
- **Turkey (38):** Fleury et al., 1985; Loeblich and Tappan, 1988; Fleury et al., 1990; <u>Özcan,</u> <u>1993</u>; Inan, 1996a; Sirel, 1996; Meric et al., 1997; Özcan and Özkan-Altiner, 1997; <u>Meric and Görmüs, 2001</u>; <u>Meric et al., 2001</u>
- Iran (56): Douvillé, 1904; Cox, 1937; Kalantari, 1976; Fleury et al., 1985; Loeblich and Tappan, 1988; Sartorio and Venturini, 1988; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001
- Macedonia (60): Meric and Görmüs, 2001; Meric et al., 2001

Croatia (62): Meric et al., 2001

Southern Europe: Dilley, 1973

Old World and Mediterranean Tethys in particular: Dilley, 1971

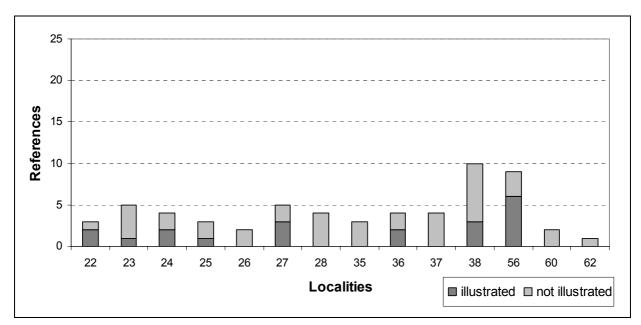


Figure 8.7: Number of illustrated and not illustrated references in the localities of Loftusia

For reasons of clarity in figure 8.8 the localities Yugoslavia (37) and Croatia (62) are put together to locality 84, and the localities Greece (36) and Macedonia (60) to locality 83.

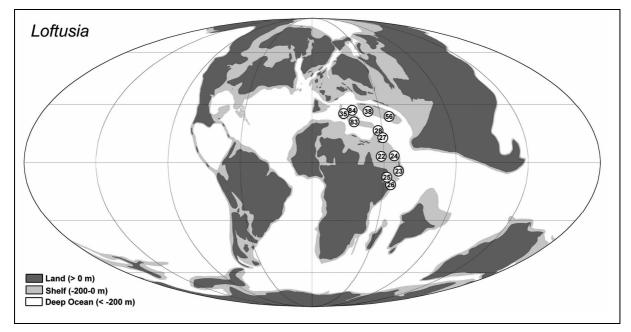


Figure 8.8: Global distribution of *Loftusia* in the Late Cretaceous

The genus *Loftusia* occurs in the Middle East and in the northeast of Africa. It is well documented from the region between Yugoslavia (37) and Iran (56) in the north and Oman (23) in the south. The occurrence in Syria (28; Fleury et al., 1985; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001) is not documented by an illustration, but as it lies in the

aforementioned region, the occurrence is well possible. The records from Italy (35; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001) and Somalia (26; Fleury et al., 1985; Fleury et al., 1990) are also not illustrated. These localities are lying marginal to the remaining distribution, to that their occurrence might be possible.

The distribution of *Loftusia* shows a superregional biogeographic pattern. It is present in the European and in the African Tethys.

8.2.6 Remarks

Loeblich and Tappan (1988) report *Loftusia* sp. from the Maastrichtian of Sumatra (47). As this is the only record outside the Middle East and northeast Africa, which is also not illustrated, the occurrence is not considered to be valid.

Dawson (1879) records *Loftusia columbiana* n. sp. from the Carboniferous of British Columbia, but the septa are perpendicular to the chamber wall, which does not occur in *Loftusia*. It is therefore disregarded here.

The illustration of *Loftusia* sp. (Figure 4e) recorded by Özcan (1993) cannot be identified as *Loftusia*.

8.3 Cuneolina

Suborder TEXTULARIINA Delage and Hérouard, 1896 Superfamily ATAXOPHRAGMIACEA Schwager, 1877 Family CUNEOLINIDAE Saidova, 1981 Subfamily CUNEOLININAE Saidova, 1981 Genus CUNEOLINA d'Orbigny, 1839

8.3.1 Description

D'Orbigny established the genus *Cuneolina* in 1839. The test of *Cuneolina* is conical to fanshaped with a length of 1.0-1.6 mm and a breadth of around 1.45 mm. The chambers are low and broad with a biserial arrangement. They increase in length with growth and are divided into almost rectangular chamberlets. The wall is agglutinated.

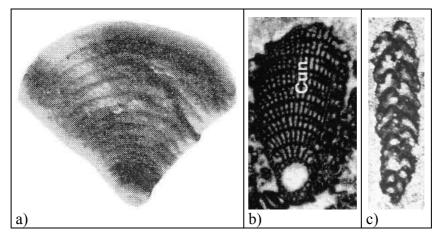


Figure 8.9: a) *C. conica* d'Orbigny, b), c) *C.* sp.; a) Gendrot, 1968, b) Landrein et al., 2001, c) Luperto Sinni and Ricchetti, 1978

8.3.2 Species

Type species: Cuneolina pavonia d'Orbigny, 1846⁺

Synonyms: *Cuneolina* d'Orbigny, 1839⁺

Species: *C. cylindrica* Henson, 1948⁺

- C. ketini Inan, 1988⁺
- C. pavonia d'Orbigny, 1846⁺

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)		?	?	?	
S-MEX (3)	?				
IRQ (27)				Х	
SYR (28)	Х				
FRA (31)	Х	Х			
ESP (32)	Х	Х	X	Х	
GER (33)	Х				
ITA (35)	Х	Х	X	Х	
GRC (36)	Х	Х	Х	Х	
YUG (37)	Х		Х	Х	
TUR (38)	Х	Х	X	Х	
KIR (49)			X		
LEB (54)	Х				
IRN (56)	Х				
CHN (73)	Х				
JOR (75)	Х				

8.3.3 Age

Figure 8.10: Stratigraphic range of the genus Cuneolina in its reported localities

After Loeblich and Tappan (1988) the stratigraphical distribution of *Cuneolina* ranges from the Valanginian to the Coniacian, where it is reported from China, USA and Europe. Dilley (1973), however, speaks of an Albian to Maastrichtian distribution where it occurs in North and Central America, South Europe, North and West Africa and in the Middle East. In the Santonian *Cuneolina* is only reported from European localities between Spain (32; Hofker, 1967; Caus and Cornella, 1983; Caus, 1988; Gischler et al., 1994) and Turkey (38; Sari and Özer, 2002). In the Campanian the genus is also mentioned from the Line Islands (49; Premoli Silva and Brusa, 1981) and in the Maastrichtian from Iraq (27; Al-Omari and Sadek, 1976). There are no Paleogene records. With the prevailing data it is not possible to localize an origination center.

8.3.4 Biology

Cuneolina is often associated with specimens of the genera *Rhapydionina* and *Raadshoovenia* particularly in the eastern part of the Tethys, while an association with *Dictyopsella*, *Meandropsina*, *Siderolites*, *Orbitoides*, and *Omphalocyclus* is represented in the entire Tethyan area. The prefered habitat is mainly interpreted to be a shallow marine carbonate ramp (Azéma et al., 1979; Caus, 1988; Gischler et al., 1994). The presence of *Dictyopsella*, *Meandropsina*, and *Omphalocyclus* points to a protected environment with low water energy.

8.3.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Cuneolina* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Cuba (1): *Brönnimann, 1954

Iraq (27): Al-Omari and Sadek, 1976

France (31): Gendrot, 1965; Gendrot, 1968

Spain (32): Hofker, 1967; *<u>Azéma et al., 1979;</u> Caus and Cornella, 1983; Caus 1988; <u>Gischler et al., 1994</u>

Italy (35): Luperto Sinni, 1968; <u>Luperto Sinni, 1976</u>; <u>Luperto Sinni and Ricchetti, 1978</u>; *Sartorio and Venturini, 1988; de Castro, 1990

Greece (36): Fleury and Godfriaux, 1974; Richter and Mariolakos, 1976; Zambetakis-Lekkas, 1988; Landrein et al., 2001

Yugoslavia (37): *Bignot, 1972; Gusic et al., 1988; Gusic and Jelaska, 1990

Turkey (38): Meric and Coruh, 1991; Inan, 1996a; Inan, 1996b; Sari and Özer, 2002

Line Islands (49): Premoli Silva and Brusa, 1981

N America, Central America, S Europe, N Africa, Middle East, W Africa: Dilley, 1973

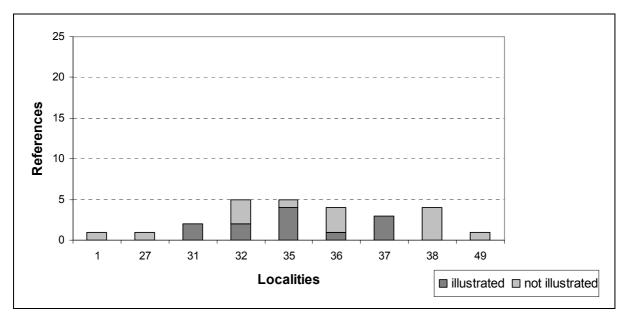


Figure 8.11: Number of illustrated and not illustrated references in the localities of Cuneolina

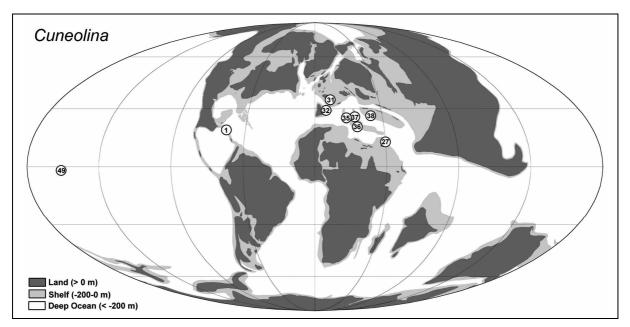


Figure 8.12: Global distribution of Cuneolina in the Late Cretaceous

In the Late Cretaceous *Cuneolina* was mainly distributed in the Tethyan area. It occurs in the region between France (31; Schlumberger, 1899; Gendrot, 1965, 1968), Spain (32; Schlumberger, 1899; Hofker, 1967; Azéma et al., 1979; Caus and Cornella, 1983; Caus, 1988; Gischler et al., 1994), Italy (35; Luperto Sinni, 1968, 1976; Luperto Sinni and Ricchetti, 1978; Sartorio and Venturini, 1988; de Castro, 1990), Turkey (38; Meric and Coruh, 1991; Inan, 1996a, 1996b; Sari and Özer, 2002) and Iraq (27; Al-Omari and Sadek, 1976), whereas the last two localities could not be verified by illustrations. It is also reported from Cuba (1; Brönnimann, 1954) and the Line Islands (49; Premoli Silva and Brusa, 1981). The distribution of *Cuneolina* is superregional-circumtropical.

8.3.6 Remarks

The records of *Cuneolina* from the Late Cretaceous of Cuba (1; Brönnimann, 1954) and the Campanian of the Line Islands (49; Premoli Silva and Brusa, 1981) are suspicious as all other records are restricted to the Tethyan area. Both reports cannot be verified by illustrations but appear to be valid (Hottinger, pers. com.). Similarly, the pre-Santonian record from Mexico (see table 3) requires further examination (see also Rosales Dominguez et al., 1994).

The Cuban record derives from a recent beach-sand, where *Cuneolina* sp. was found together with other late Cretaceous foraminifera [*Globotruncana stuarti* (de Lapparent), *Globotruncana lapparenti* s. l., *Vaughanina cubensis* Palmer, *Sulcoperculina dickersoni* (Palmer), *S. cubensis* (Palmer), *S. vermunti* (Thiadens), *Omphalocyclus macropora*

(Lamarck)], but also with Paleogene and Neogene foraminifera (*"Borelis" floridana* Cole, *"Borelis" gunteri* Cole, *Lockhartia* sp., *Dictyoconus* sp.). The exact stratigraphic horizon of this faunal association therefore requires further study.

The material from the Line Islands comes from the drill hole 315A (core 22). A Campanian age is given, but it is quite possible that it was contaminated by transported and reworked material.

Cuneolina has also been documented in unpublished reports of the exploration industry from the Caribbean area. The unpublished records may therefore extend the distributional range of this genus.

8.4 Dictyopsella

Suborder TEXTULARIINA Delage and Hérouard, 1896 Superfamily ATAXOPHRAGMIACEA Schwager, 1877 Family DICTYOPSELLIDAE Brönnimann, Zaninetti and Whittacker, 1983 Genus DICTYOPSELLA Munier-Chalmas, 1899

8.4.1 Description

The genus *Dictyopsella* was erected by Munier-Chalmas (in Schlumberger, 1899) based on material from Étang de Berre, southern France. The test of *Dictyopsella* is low conical and trochospiral. The diameter of the test ranges between 1.3 and 2.9 mm. The chambers are broad and low and are arranged in two or three whorls. The last whorl consists of about 10 chambers. On the spiral side of the test the chambers appear semilunate, on the umbilical side subtriangular. The chambers are divided by beams perpendicular to the septa. The wall is agglutinated.

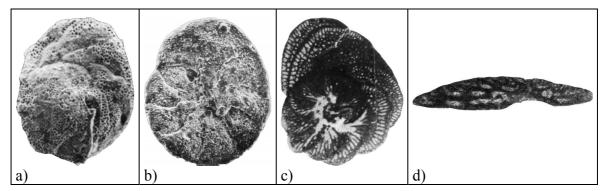


Figure 8.13: a), b), d) *D. kiliani* Munier-Chalmas, c) *D. muretae* Hottinger; a), c) Loeblich and Tappan, 1985, b) Loeblich and Tappan, 1988, d) Gendrot, 1968

8.4.2 Species

Type species: *Dictyopsella kiliani* Munier-Chalmas, in Schlumberger, 1899; p. 462; pl. 8, figs. 5, 7; pl. 11, fig. 20
Synonyms: *Dictyopsella* Munier-Chalmas, in Schlumberger, 1899; p. 462
Species: *D. chalmasi* Schlumberger, 1899; p. 463; pl. 8, fig. 4 *D. charentensis* Loeblich and Tappan, 1985; p. 179; pl. 1, figs. 9-11; pl. 2, figs. 1-9; fig. 1

D. hofkeri Loeblich and Tappan, 1985; p. 181; pl. 3, figs. 1-10; fig. 2

D. kiliani Munier-Chalmas, in Schlumberger, 1899; p. 462; pl. 8, figs. 5, 7; pl.

11, fig. 20

D. libanica Saint-Marc, 1973; p. 410; pl. 1, figs. 1-20; pl. 2, figs. 1-25

D. muretae Hottinger, 1967⁺

D. tenuissima Reuss, 1862^+

Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
LEB (54)	X				
SYR (28)	Х				
BEL (30)			X	Х	
NLD (57)				Х	
FRA (31)	Х	X	X	Х	
ESP (32)	Х	X	X	Х	
ITA (35)	Х	X			
POR (39)		X			
HRV (62)			X		

Figure 8.14: Stratigraphic range of the genus Dictyopsella in its reported localities

The first occurrence of *Dictyopsella* is reported from the Albian to lower Cenomanian sedimentary deposits of Syria (28; Mouty et al., 2003) with the species *D*. cf. *libanica* Saint-Marc and from the lower Cenomanian of Lebanon (54; Saint-Marc, 1973) with the species *D*. *libanica* Saint-Marc. Other Cenomanian individuals are also reported from France and Spain (31, 32; Loeblich and Tappan, 1988). From the Santonian to the Maastrichtian *Dictyopsella* is only known from European localities, whereas in the Santonian the genus is concentrated to the regions Portugal (39; Bonte, 1942), Spain (32; Bonte, 1942; Caus and Cornella, 1983; Loeblich and Tappan, 1985; Caus, 1988), France (31; Gendrot, 1965, 1968; Séronie-Vivien, 1972; Loeblich and Tappan, 1985) and Italy (35; Luperto Sinni, 1966, 1968, 1976; Luperto Sinni and Ricchetti, 1978). In the Campanian *Dictyopsella* was found also in France, Spain, Croatia (62; Gusic et al., 1988; Gusic and Jelaska, 1990) and Belgium (30; Bignot and Neumann, 1997). *Dictyopsella* from Maastrichtian sediments are known from Belgium, the Netherlands (57; Hofker, 1966), France and Spain. There are no records of *Dictyopsella* that are younger than Maastrichtian. The Albian records of Syria point to an origin in the eastern Tethys.

8.4.4 Biology

In nearly all analyzed locations *Dictyopsella* is associated with *Nummofallotia* and *Cuneolina*. Other commonly associated larger foraminifera are *Siderolites*, *Orbitoides* and *Meandropsina*. *Dictyopsella* probably lived in the upper photic zone (Hottinger, 1997) in protected peri-reefal areas (Saint-Marc, 1973; Luperto Sinni and Ricchetti, 1978; Caus, 1988) at moderate depths down to 60 m (Caus, 1988).

8.4.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous individuals of *Dictyopsella* were found at the following localities (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Belgium (30): Hofker, 1966; Bignot and Neumann, 1997

- France (31): <u>Gendrot, 1965; Gendrot, 1968;</u> Séronie-Vivien, 1972; <u>Loeblich and Tappan,</u> <u>1985;</u> Loeblich and Tappan, 1988; *Marie, unpubl.
- Spain (32): <u>Schlumberger, 1899</u>; Bonte, 1942; Hottinger, 1966; Hofker, 1967; Caus and Cornella, 1983; Caus and Vicens, 1984; <u>Loeblich and Tappan, 1985</u>; Caus, 1988; <u>Loeblich</u> <u>and Tappan, 1988</u>
- Italy (35): Luperto Sinni, 1966; *Luperto Sinni, 1968; <u>Luperto Sinni, 1976; Luperto Sinni</u> and Ricchetti, 1978

Portugal (39): Bonte, 1942

Netherlands (57): Hofker, 1966

Croatia (62): Gusic et al., 1988; Gusic and Jelaska, 1990

Western Tethys: Fleury et al., 1985

Southern Europe, Middle East: Dilley, 1973

Tethys: Hottinger, 1997

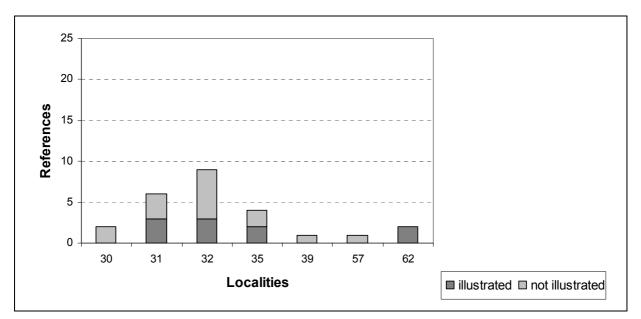


Figure 8.15: Number of illustrated and not illustrated references in the localities of Dictyopsella

In the illustration of the biogeographic distribution of *Dictyopsella* (Figure 8.16) the locations from Belgium (30) and the Netherlands (57) are plotted together in location 80 for reasons of clarity.

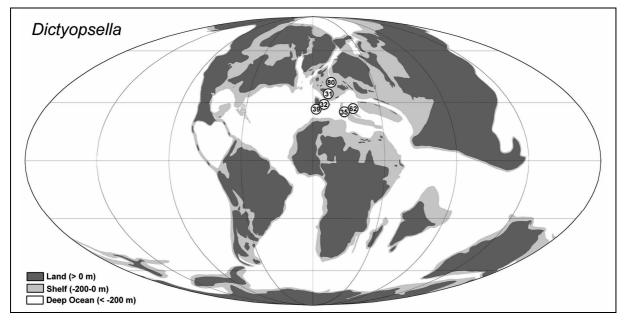


Figure 8.16: Global distribution of Dictyopsella in the Late Cretaceous

In the time slice under consideration *Dictyopsella* only occurs in the European Tethys. The distribution is divided into a western region, comprising the Netherlands (57), Belgium (30), France (31), Spain (32) and Portugal (39), and an eastern region around Italy (35) and Croatia (62). It is remarkable that in the Maastrichtian the distribution of *Dictyopsella* is concentrated

in the western European Tethys (Belgium, the Netherlands, France, and Spain). In Italy, the genus occurs until the Santonian, whereas in Croatia there are only records of Campanian age. The reason for this distribution is not yet clarified, but can probably be solved with a detailed analysis of the particular regions.

8.4.6 Remarks

Dictyopsella cuvillieri Gendrot, 1968 is the type species of *Dictyopselloides* Loeblich and Tappan, 1985.

8.5 Lacazina

Suborder MILIOLINA Delage and Hérouard, 1896 Superfamily ALVEOLINACEA Ehrenberg, 1839 Family FABULARIIDAE Ehrenberg, 1839 Genus LACAZINA Munier-Chalmas, 1882

8.5.1 Description

Munier-Chalmas established the genus *Lacazina* in the year 1882, based on Senonian material from France and Spain.

The test of *Lacazina* is discoidal to elongate globular. The diameter is up to 10 mm (Loeblich and Tappan 1988). The chambers are biloculine arranged. The interior of the chambers is divided into numerous chamberlets. The wall is porcelaneous. Initially the elongate forms were considered to belong to the genus *Alveolina* (d'Orbigny, 1850).

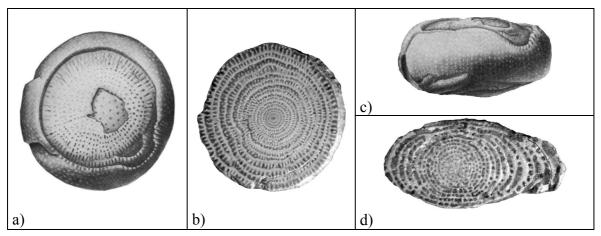


Figure 8.17: a), c) L. compressa (d'Orbigny), b), d) L. sp.; a), c) Loeblich and Tappan, 1964, b), d) Goldbeck

8.5.2 Species

Type species: Alveolina compressa d'Orbigny, 1850⁺

Synonyms: Lacazina Munier-Chalmas, 1882; p. 472⁺

Species: L. cantabrica⁺

- L. compressa (d'Orbigny, 1850)⁺
- L. depressa Schlumberger⁺
- L. elongata Munier-Chalmas, 1885⁺

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
FRA (31)		Х	Х		
ESP (32)		Х	Х		
GRC (36)					Х
ISR (53)		?	?	?	
Sa-ITA (72)		Х			

8.5.3 Age

Figure 8.18: Stratigraphic range of the genus Lacazina in its reported localities

The stratigraphic range of *Lacazina* is from the Coniacian to the Middle to Late Paleocene (Hottinger, 1997). In the Senonian it is reported from France (31; Hottinger, 1966; Loeblich and Tappan, 1988), Spain (32; Hottinger, 1966; Azéma et al., 1979) and from Israel (53; Loeblich and Tappan, 1988). Santonian records exist from France (31; Gendrot, 1965; Fleury et al., 1985), Spain (32; Caus and Hottinger, 1986; Caus, 1988; Caus et al., 1996) and from Sardinia (72; Fleury et al., 1985; Hottinger et al., 1989). In the Campanian *Lacazina* is reported from France (31) and Spain (32). From the Maastrichtian no detailed localities are reported, only Dilley (1973) reports *Lacazina* from the Maastrichtian of Southern Europe. *Lacazina* originated in the western part of the Tethys in the area between France, Spain and Sardinia.

8.5.4 Biology

In the reported localities *Lacazina* is associated with individuals of the genera *Cuneolina*, *Orbitoides*, *Dictyopsella*, *Nummofallotia*, and *Meandropsina*.

Lacazina occurs in the upper photic zone in protected areas (Hottinger, 1966; Caus, 1988). This genus displays a distinct change in morphology with depth. The short large form *L. compressa* appears at depths to around 40 m, whereas with increasing depth from 40 to 80 m it is replaced by the smaller elongate *L. elongata* (Hottinger, 1966; Caus, 1988). *Lacazina compressa* seems to prefer an environment of high water energy and hard substrate, while *L. elongata* occurs in regions of low water energy on soft substrate (Hottinger, 1983). It may well be that species of this genus lived within algal turfs or even as epiphytes on algal thalli.

8.5.5 Biogeographic distribution and Faunal Province

From the Santonian to the Maastrichtian individuals of the genus *Lacazina* were found in the following localities (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

France (31): <u>Gendrot, 1965</u>; *Hottinger, 1966; Fleury et al., 1985; *Loeblich and Tappan, 1988; Hottinger et al., 1989; Caus et al., 1996

Spain (32): <u>Schlumberger, 1899</u>; Hottinger, 1966; Hofker, 1967; *<u>Azéma et al., 1979</u>; Fleury et al., 1985; Caus and Hottinger, 1986; Caus, 1988; <u>Loeblich and Tappan, 1988</u>; *Hottinger et al., 1989; <u>Gischler et al., 1994</u>; Caus et al., 1996

Sardinia (72): Fleury et al., 1985; *Hottinger et al., 1989

Confined to Europe or to northern Africa: *Dilley, 1971

Southern Europe: Dilley, 1973

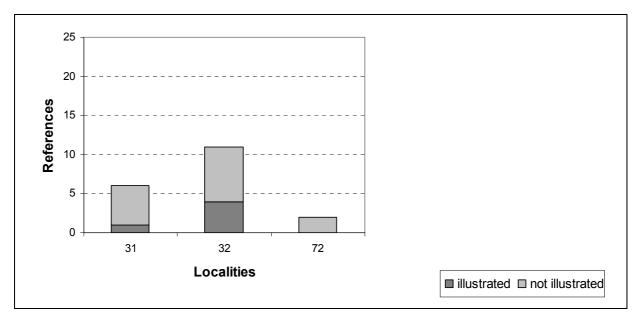


Figure 8.19: Number of illustrated and not illustrated references in the localities of Lacazina

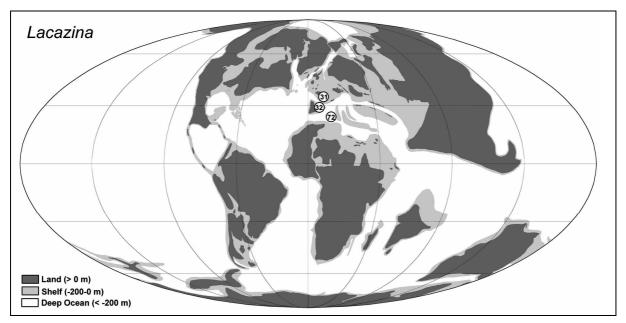


Figure 8.20: Global distribution of *Lacazina* in the Late Cretaceous

In the Late Cretaceous *Lacazina* exhibits a distinct regional distribution pattern. It occurs in France (31; Gendrot, 1965; Fleury et al., 1985; Hottinger et al., 1989; Caus et al., 1996), Spain (32; Schlumberger, 1899; Hottinger, 1966; Hofker, 1967; Fleury et al., 1985; Caus and Hottinger, 1986; Caus, 1988; Loeblich and Tappan, 1988; Gischler et al., 1994; Caus et al., 1996) and Sardinia (72; Fleury et al., 1985). Further it is reported from the Senonian of Israel (53; Loeblich and Tappan, 1988) but as this record is not illustrated it must be handled with care until more evidence is provided.

8.5.6 Remarks

Yabe and Hanzawa (1931) quote Silvestri (1925) who reports *Lacazina lamellifera* Silvestri from the Upper Cretaceous of Sumatra. But they doubt the result because the morphology of the figured foraminifera is significantly different. They also question the Cretaceous age, and it is therefore not regarded here.

Yabe and Hanzawa (1931) reported ?*Lacazina wichmanni* Schlumberger from the ?Late Cretaceous and ?Eocene of New Guinea in association with several Eocene foraminifera. These records cannot be verified by illustrations, and therefore remain doubtful. In 1962, Crespin established a new genus, *Lacazinella* with the type species *Lacazina wichmanni* Schlumberger. *Lacazinella* differs from *Lacazina* in its prolate form, the completely embracing chambers and by the existence of longitudinal perforate ribs in the endoskeleton. After Crespin (1962) *Lacazina elongata* Munier-Chalmas from the Santonian of Spain does

belong to *Lacazinella*. It is possible that also the species reported by Yabe and Hanzawa (1931) must be added to *Lacazinella* Crespin.

Bilotte (1978) considers similar porcelaneous taxa that have an agglutinated cover to belong to a separate genus, which he named *Adrahentina*. However, many porcelaneous species often incorporate sediment particles in their wall. The erection of a new genus based on this character alone is therefore not justified. The species of *Adrahentina* identified by Bilotte (1978) are therefore considered to be true Lacazinas. In addition the Maastrichtian age given by Bilotte for *Adrahentina* may in fact be older than Campanian (Caus and Vicens, 1984).

8.6 Chubbina

Suborder MILIOLINA Delage and Hérouard, 1896 Superfamily ALVEOLINACEA Ehrenberg, 1839 Family RHAPYDIONINIDAE Keijzer, 1945 Subfamily RHAPYDIONININAE Keijzer, 1945 Genus CHUBBINA Robinson, 1968

8.6.1 Description

Robinson established the genus *Chubbina* in 1968 relating to Jamaican material. The genus name was given in appreciation to Dr. Chubb, who worked extensively on Cretaceous material from the Caribbean region.

The test of Chubbina is peneropline reaching up to 8 mm in diameter and 1.5 mm in thickness (Loeblich and Tappan, 1988). The chambers are subdivided by numerous septula, which are arranged parallel and perpendicular to the direction of growth, resulting in nearly rounded chamberlets. The wall is calcareous, porcelaneous. The openings of the multiple aperture are scattered over the apertural face.

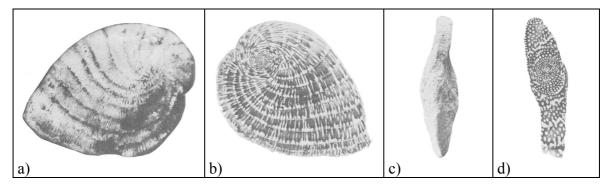


Figure 8.21: a) - d) C. jamaicensis Robinson; a), b), d) Robinson, 1968, c) Hamaoui and Fourcade, 1973

8.6.2 Species

Type species: *Chubbina jamaicensis* Robinson, 1968; p. 527; pl. 101, figs. 1-6; pl. 102, figs. 1-5
Synonyms: *Chubbina* Robinson, 1968; p. 527⁺ *Borelis cardenasensis* Barker and Grimsdale, 1937; p. 173; pl. 173, figs. 1-5
Species: *C. cardenasensis* (Barker and Grimsdale, 1937), p. 529⁺ *C. jamaicensis* Robinson, 1968, p. 527, pls. 101(1-6), 102(1-5) *C. macgillavryi* Robinson, 1968; p. 529; pl. 102, fig. 8; pl. 103, figs. 3, 4; pl. 102, figs. 6, 7

8.6.3 Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)			X	Х	
F-USA (2)			X	Х	
S-MEX (3)			X	Х	
JAM (6)			X	Х	
MEXu			X	Х	

Figure 8.22: Stratigraphic range of the genus *Chubbina* in its reported localities

In the Caribbean region *Chubbina* occurs in Campanian and Maastrichtian outcrops in Cuba (1; Dilley, 1973; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988), Florida (2; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988), Chiapas (3; Robinson, 1968; Dilley, 1973) and Jamaica (6; Robinson, 1968; Dilley, 1973; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988). As the first occurrence of *Chubbina* is in the Caribbean, it probably represents the center of origin of this species.

8.6.4 Biology

From the Campanian-Maastrichtian of S-Mexico *Chubbina* is reported together with *Orbitoides*, *Vaughanina*, *Sulcoperculina* in sandy marls and micritic limestones and with *Sulcoperculina* and *Pseudorbitoides* in gray and white limestones (Pécheux, 1984).

Based on the associated fauna and other information from the Caribbean the preferred habitat of *Chubbina* is interpreted as a shallow shelf or lagoonal environment (Robinson, 1968; Hamaoui and Fourcade, 1973). Eva (1980) interprets *Chubbina* as being a seagrass-dweller comparable to modern peneroplid morphotypes (Langer, 1993). Seagrasses have been around since the Cretaceous (den Hartog, 1970) but peneroplid forms are also frequent epiphytes on various types of algae (Langer, 1993).

8.6.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Chubbina* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Cuba (1): Dilley, 1973; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988

Florida (2): Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988

Tuxtla Guttierez (3): Robinson, 1968; Dilley, 1973; Pécheux, 1984; Rosalez Dominguez et al., 1994

Jamaica (6): Robinson, 1968; Dilley, 1973; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988

Mexico (68): Hamaoui and Fourcade, 1973; Butterlin, 1981; Loeblich and Tappan, 1988

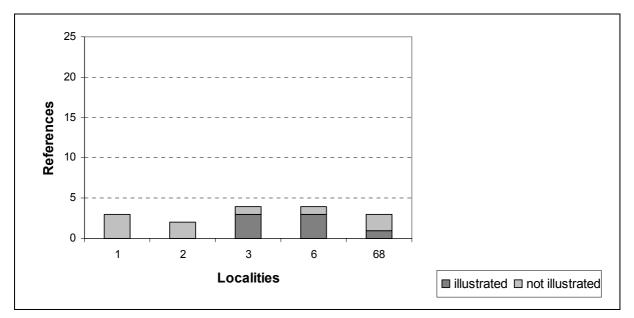


Figure 8.23: Number of illustrated and not illustrated references in the localities of Chubbina

For reasons of clarity, the localities 3 (S-Mexico) and 68 (Mexico undifferentiated) in figure 8.24 were plotted together in locality 68.

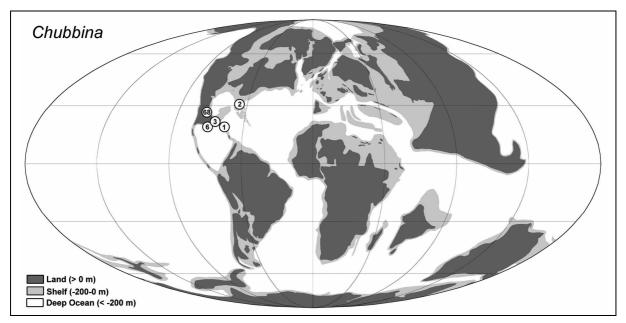


Figure 8.24: Global distribution of *Chubbina* in the Late Cretaceous

The genus *Chubbina* is restricted to the northern part of the Caribbean region. It occurs between Florida (2; Hamaoui and Fourcade 1973; Loeblich and Tappan 1988), Mexico (76; Hamaoui and Fourcade 1973; Butterlin 1981; Loeblich and Tappan 1988) and Jamaica (6; Robinson 1968; Dilley 1973; Hamaoui and Fourcade 1973; Loeblich and Tappan 1988).

8.6.6 Remarks

In 1977, Fleury reported a new species, *?Chubbina philippsoni*, from the Late Cretaceous of Greece, but he has explicitely marked the genus as uncertain. In 1990, de Castro reanalyzed the greek form and found distinct differences that justified the erection of a new genus *Pseudochubbina*, to which he added *?Chubbina philippsoni*. The record from Greece is therefore not regarded to be valid.

8.7 *Pseudedomia*

Suborder MILIOLINA Delage and Hérouard, 1896 Superfamily ALVEOLINACEA Ehrenberg, 1839 Family RHAPYDIONINIDAE Keijzer, 1945 Subfamily RHAPYDIONINIAE Keijzer, 1945 Genus PSEUDEDOMIA Henson, 1948

8.7.1 Description

In 1948, Henson established the genus *Pseudedomia*, based on Maastrichtian material from Qatar. *Pseudedomia* has a porcelaneous lenticular test with an arcuated periphery. It is planispiral and involute but the number of whorls depends on the species. The diameter is up to 3.5 mm (Loeblich and Tappan, 1988). In axial view the chambers show a thickening of the inner wall from which small pillars arises forming small chamberlets. The number of chambers in the last whorl differs specifically.

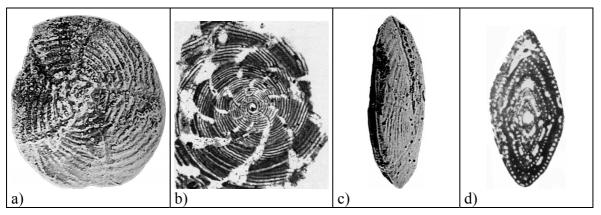


Figure 8.25: a), c) *P. hekimhanensis* Görmüs, b) *P.* cf. *hamaouii* Rahaghi, d) *P. complanata* Eames and Smout; a), c) Görmüs, 1999, b) de Castro, 1988, d) Loeblich and Tappan, 1988

8.7.2 Species

Type species: *Pseudedomia multistriata* Henson, 1948⁺

Synonyms:Pseudedomia Henson, 1948+Species:P. complanata Eames and Smout, 1955+P. hamaouii Rahaghi, 1976; pl. 1, figs. 1-11P. hekimhanensis Görmüs, 1996; p. 12; pl. 1, figs. 1-3

P. multistriata Henson, 1948⁺

P. persica Rahaghi, 1989; p. 181; pl. 3, figs. 1-8

8.7.3 Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
DZA (16)	Х				
TUN (17)	Х	Х	Х	Х	
QAT (24)	Х	Х	Х	Х	
IRQ (27)	Х	Х	Х	Х	
SYR (28)	Х				
ESP (32)				Х	
ITA (35)	Х	Х	Х	Х	
GRC (36)	Х	X	Х	Х	
YUG (37)	Х	Х	Х	Х	
TUR (38)	Х		Х	Х	
POR (39)	Х	Х	Х	Х	
ISR (53)	Х	Х	Х	Х	
LEB (54)	Х	Х	Х	Х	
KWP (55)	Х	X	Х	Х	
IRN (56)		X	Х		
ARE (66)			Х	Х	

Figure 8.26: Stratigraphic range of the genus Pseudedomia in its reported localities

Pseudedomia has been reported from the Cenomanian of Algeria (16; Hamaoui and Fourcade, 1973). Loeblich and Tappan (1988) cite *Pseudedomia* sp. from the Cenomanian to Maastrichtian of Qatar, Kuwait, Tunisia, Lebanon, Iraq, Israel, Italy, Portugal, Yugoslavia, and Greece without a detailed stratigraphic affiliation. From the Santonian to the Maastrichtian it is distributed in the Tethyan region between Portugal (39; *P.* sp., without illustration), Spain (32; without illustration), Turkey (38), Kuwait (55), and Qatar (24). There are no Paleogene records of this genus. Because of its numerous occurrences in the Pre-Santonian an origination center cannot be identified.

8.7.4 Biology

Mavrikas et al. (1994) are of the opinion that *Loftusia* and *Pseudedomia* have shared the same ecological niche, while (Brasier, 1975 in Eva, 1980) suggests that *Pseudedomia* is a seagrass-adapted form. The species *Pseudedomia* aff. *multistriata* is reported to have lived together with specimens of the genera *Siderolites*, *Orbitoides*, *Lepidorbitoides*, *Hellenocyclina*, and *Sirtina* on the external platform (Mavrikas et al., 1994). Another species, *Pseudedomia* cf.

multistriata Henson, has been reported from reefal outcrops of Greece with *Orbitoides*, *Loftusia*, *Sirtina*, *Siderolites*, *Clypeorbis*, *Nummofallotia* and *Rhapydionina*. This indicates a lagoonal or backreefal paleoenvironment (Mavrikas et al., 1994 in Görmüs, 1999). The lithofacies and faunal associations of *P. hekimhanensis* hints to an even more restricted lagoonal setting than *P. multistriata* (Görmüs, 1999).

8.7.5 Biogeographic distribution and Faunal Province

In the time from the Santonian to the Maastrichtian individuals of the genus *Pseudedomia* were found in the following localities (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Tunisia (17): Loeblich and Tappan, 1988

- Qatar (24): Hamaoui and Fourcade, 1973; Fleury et al., 1985; Loeblich and Tappan, 1988; Görmüs, 1999
- Iraq (27): Fleury et al., 1985; Loeblich and Tappan, 1988

Spain (32): Görmüs, 1999

Italy (35): Loeblich and Tappan, 1988

Greece (36): Loeblich and Tappan, 1988; Mavrikas et al., 1994; Görmüs, 1999

Yugoslavia (37): Loeblich and Tappan, 1988

Turkey (38): Görmüs, 1996; Görmüs, 1999

Portugal (39): Loeblich and Tappan, 1988

Israel (53): Loeblich and Tappan, 1988

Lebanon (54): Loeblich and Tappan, 1988

Kuwait (55): Fleury et al., 1985; Loeblich and Tappan, 1988; Görmüs, 1999

Iran (56): <u>Rahaghi, 1976;</u> Fleury et al., 1985; <u>Rahaghi, 1989</u>; Görmüs, 1999

United Arab Emirates (66): de Castro, 1988

Southern Europe: *Dilley, 1971

Middle East: *Dilley, 1971; Dilley, 1973

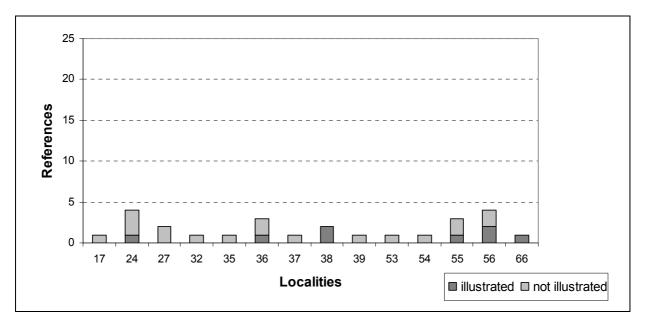


Figure 8.27: Number of illustrated and not illustrated references in the localities of Pseudedomia

The localities Israel (53) and Lebanon (54) are drawn together in location 81 in figure 8.28.

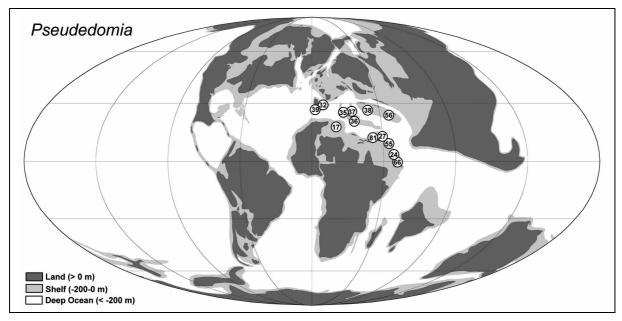


Figure 8.28: Global distribution of Pseudedomia in the Late Cretaceous

In the Late Cretaceous *Pseudedomia* shows a superregional distribution within the Tethyan Ocean. It is known from southern Europe and northern Africa. It occurs from the western part of the European Tethys (Portugal: 39; Loeblich and Tappan, 1988; Spain: 32; Görmüs, 1999) all the way to the east till Qatar and the United Arab Emirates (Italy: 35; Loeblich and Tappan, 1988; Tunisia: 17; Loeblich and Tappan, 1988; Greece: 36; Loeblich and Tappan, 1988; Mavrikas et al., 1994; Görmüs, 1999; Qatar: 24; Hamaoui and Fourcade, 1973; Fleury

et al., 1985; Loeblich and Tappan, 1988; Görmüs, 1999; United Arab Emirates: 66; de Castro, 1988). Unfortunately no record of the western part of the Tethys can be verified by an illustration. These locations require further studies.

8.7.6 Remarks

In 1990, de Castro established a new genus, *Pseudochubbina*, with the type species *Pseudedomia globularis* Smout.

The species *Pseudedomia viallii* (Colalongo) and *P. drorimensis* Reiss, Hamaoui and Ecker seem to occur only in the Cenomanian. However, *P. drorimensis* differs in morphology from the type *Pseudedomia*, and *P. viallii* has been described as a member of *Sellialveolina* (Caus, pers. com.). Both records may therefore not belong here. In addition, post-Cenomanian records of *Pseudedomia* in Spain and Portugal have yet not been confirmed and require further study.

8.8 Raadshoovenia

Suborder MILIOLINA Delage and Hérouard, 1896 Superfamily ALVEOLINACEA Ehrenberg, 1839 Family RHAPYDIONINIDAE Keijzer, 1945 Subfamily RHAPYDIONINNINAE Keijzer, 1945 Genus RAADSHOOVENIA van den Bold, 1946

8.8.1 Description

Van den Bold (1946) established the genus based on Eocene material from Guatemala. The porcelaneous test of *Raadshoovenia* is in the juvenile stage planispiral involute, consisting of around three whorls. The adult stage is uncoiled and rectilinear. The interior of the rounded chambers is subdivided by numerous septula.

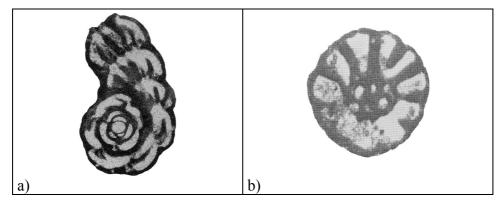


Figure 8.29: *R. salentina* (Papetti and Tedeschi); a) Sartorio and Venturini, 1988, b) Hamaoui and Fourcade, 1973

8.8.2 Species

Type species: Raadshoovenia guatemalensis van den Bold, 1946⁺

Synonyms: *Raadshoovenia* van den Bold, 1946⁺

Species: *R. cuvillieri* (Fourcade)⁺

R. salentina (Papetti and Tedeschi, 1965)⁺

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
S-MEX (3)					?
GTM (9)					?
IRQ (27)		Х	Х		
ESP (32)			Х		
ITA (35)		Х	Х	Х	
GRC (36)		Х	Х		
YUG (37)		Х			
HRV (62)			Х		
SVN (63)	?	?	?	?	

8.8.3 Age

Figure 8.30: Stratigraphic range of the genus Raadshoovenia in its reported localities

The first occurrences of *Raadshoovenia* are from the Santonian of Italy (35; de Castro, 1971, 1988, 1990; Hamaoui and Fourcade, 1973; Fleury et al., 1985; Loeblich and Tappan, 1988), Greece (36; Loeblich and Tappan, 1988), Yugoslavia (37; Fleury et al., 1985) and Iraq (27; Fleury et al., 1985). In the Campanian nearly the same distribution pattern prevails, whereas in the Maastrichtian *Raadshoovenia* is only reported from Italy (35; Luperto Sinni and Ricchetti, 1978). In the Paleocene there are no records from the Central Tethyan region but from Mexico (Butterlin, 1981; Pécheux, 1984) and Guatemala (de Castro, 1971; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988). A clear origination center cannot be given to date.

8.8.4 Biology

Raadshoovenia is often found together with *Cuneolina*, which is recorded from shallow marine carbonate areas (Azéma et al., 1979; Caus, 1988; Gischler et al., 1994). *Raadshoovenia* is comparable to modern peneroplid foraminifera, which are commonly found in shallow water epifaunal habitas. Modern peneroplids also have a preference for epiphytal hard substrates including seagrasses and algal thalli (Langer, 1989, 1993; Langer et al., 1998). The enivronment of *Raadshoovenia* was probably in reefal and lagoonal settings or on shallow shelves not deeper than 100 meters.

8.8.5 Biogeographic distribution and Faunal Province

In the time from Santonian to Maastrichtian individuals of the genus *Raadshoovenia* were found in the following localities (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Iraq (27): Fleury et al., 1985

- Spain (32): <u>de Castro, 1971;</u> *<u>Hamaoui and Fourcade, 1973;</u> *<u>Azéma et al., 1979;</u> Fleury et al., 1985; Loeblich and Tappan, 1988
- Italy (35): <u>de Castro, 1971</u>; Hamaoui and Fourcade, 1973; Fleury et al., 1985; <u>Luperto Sinni</u> and Ricchetti, 1978; <u>de Castro, 1988</u>; <u>Loeblich and Tappan, 1988</u>; <u>Sartorio and Venturini,</u> <u>1988</u>; <u>de Castro, 1990</u>
- Greece (36): *<u>Hamaoui and Fourcade, 1973;</u> *<u>Fleury, 1977;</u> Fleury et al., 1979; Loeblich and Tappan, 1988; *Fleury et al., 1990

Yugoslavia (37): Fleury et al., 1985

Croatia (62): Fleury et al., 1985

Slovenia (63): *Bignot, 1972

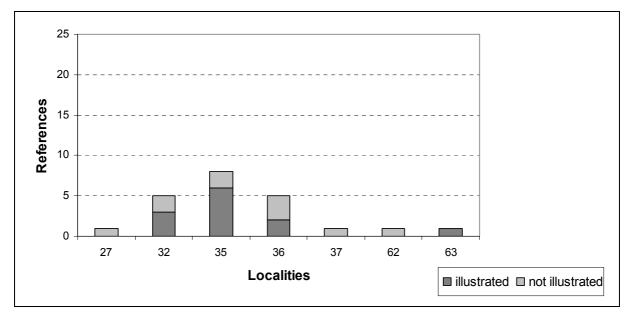


Figure 8.31: Number of illustrated and not illustrated references in the localities of Raadshoovenia

For reasons of clarity in figure 8.32 the locations Yugoslavia (37), Croatia (62), and Slovenia (63) were plotted together in locality 84.

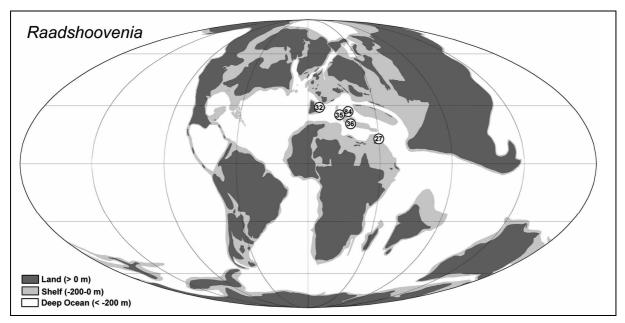


Figure 8.32: Global distribution of Raadshoovenia in the Late Cretaceous

In the Late Cretaceous *Raadshoovenia* shows a superregional distribution. It occurs in Southern Europe between Spain (32; de Castro, 1971; Fleury et al., 1985; Loeblich and Tappan, 1988) and Greece (36; Hamaoui and Fourcade, 1973; Fleury, 1977; Fleury et al., 1979, 1990; Loeblich and Tappan, 1988) as well as in Northern Africa (27; Fleury et al., 1985).

8.8.6 Remarks

The Eocene age of the Guatemalan material for the type species needs reinvestigation, inasmuch as all other species of the genus are restricted to the Upper Cretaceous (Loeblich and Tappan, 1988). *Raadshoovenia* has often been misidentified in the literature and the entire genus concept of *Raadshoovenia* and associated species requires a complete revision.

There are a number of problematic issues that concern this genus: Loeblich and Tappan (1988) place *Cuvillierinella* in synonymy with *Raadshoovenia*. In addition, the relationship between *Murciella* and *Raadshoovenia* has not been fully clarified to date. The outcome of this discussion will have a significant effect on the distribution of *Raadshoovenia* and associated taxa. The Tertiary records require additional studies to confirm their placement in the genus *Raadshoovenia* (see also Steuber et al., 2002).

8.9 Rhapydionina

Suborder MILIOLINA Delage and Hérouard, 1896 Superfamily ALVEOLINACEA Ehrenberg, 1839 Family RHAPYDIONINIDAE Keijzer, 1945 Subfamily RHAPYDIONININAE Keijzer, 1945 Genus RHAPYDIONINA Stache, 1913

8.9.1 Description

The genus *Rhapydionina* was erected in 1913 by Stache based on material from Lipiza (Slovenia). This genus shows a strong dimorphism. The juvenile stage of *Rhapydionina* (megalospheric generation) consists of one whorl which is planispirally enrolled. Hamaoui and Fourcade (1973) give a length of 7 mm and a breadth of 1.8 mm. The following chambers are uncoiled and rectilinear. The chambers are slightly arcuated towards the direction of coiling and distinctly incised. Each chamber is subdivided by septula, which arise from the wall to the center of the chamber. The microspheric generation, formerly called *Rhipidionina*, shows a fan-shaped outline.

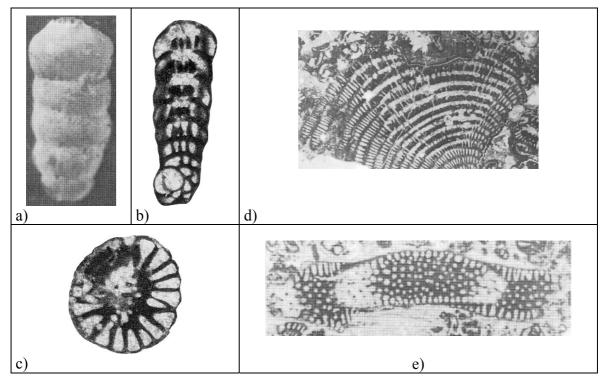


Figure 8.33: *R. liburnica* (Stache) a) - c) megalospheric generation, d), e) microspheric generation; a) Reichel, 1984, b), c) Sartorio and Venturini, 1988, d), e) Bignot, 1972

8.9.2 Species

Type species:	Peneroplis liburnica Stache, 1889 ⁺
Synonyms:	<i>Rhapydionina</i> Stache, 1913 ⁺
	<i>Rhipidionina</i> Stache, 1913 ⁺ ; type species: <i>Pavonina liburnica</i> Stache, 1889 ⁺
Species:	<i>R. liburnica</i> (Stache, 1889) $^+$

8.9.3 Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
IRQ (27)				X	
ITA (35)	X	Х	X	Х	
GRC (36)	X	Х	X	X	
YUG (37)	X	Х	X	X	
TUR (38)				X	
IRN (56)					X
ALB (61)				X	
HRV (62)				X	
SVN (63)				X	
ZYP (69)				X	

Figure 8.34: Stratigraphic range of the genus Rhapydionina in its reported localities

Pre-Santonian records of *Rhapydionina* are from Italy (35; de Castro, 1965; Loeblich and Tappan, 1988), Greece (36; Loeblich and Tappan, 1988), and Yugoslavia (37; Loeblich and Tappan, 1988). In the Santonian and in the Campanian *Rhapydionina* is known from Italy (35; Loeblich and Tappan, 1988), Greece (36; Hamaoui and Fourcade, 1973; Landrein et al., 2001), and Yugoslavia (37; Hamaoui and Fourcade, 1973). In the Maastrichtian the genus under consideration is reported from the eastern part of the European Tethys, including Italy (35), Yugoslavia (37) and Turkey (38). There is also a single record from Iraq (27; Fleury et al., 1985). Seiglie and Ayala-Castanares (1963) and Butterlin (1981) report *Rhapydionina* from Cuba and Mexico. Both records are likely to be incorrect and are therefore not included here. There is also a single Paleocene record from Iran (56; Kalantari, 1976) and an incorrect Jurassic record from the Mount Jolmo Lungma region in China (Ho et al., 1976). The origination center of *Rhapydionina* seems to be situated in the area between Italy, Greece and Yugoslavia, from where it dispersed to the East.

8.9.4 Biology

Rhapydionina is often found together with species of the genus *Raadshoovenia*. Other associated genera are *Cuneolina*, *Nummofallotia*, *Dictyopsella*, and *Siderolites*.

Rhapydionina seems to have preferred the "upper photic zone, - ca. 40 m" as inferred from sedimentological records and the associated fauna (Hottinger, 1997).

8.9.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Rhapydionina* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Iraq (27): Fleury et al., 1985

- Italy (35): *Luperto Sinni, 1965; *Luperto Sinni, 1968; *Bignot, 1972; Fleury et al., 1985; *Loeblich and Tappan, 1988
- Greece (36): <u>Hamaoui and Fourcade, 1973</u>; Fleury and Godfriaux, 1974; Fleury, 1977;
 *Fleury et al., 1979; Fleury et al., 1985; *Loeblich and Tappan, 1988; Zambetakis-Lekkas, 1988; Fleury et al., 1990; Mavrikas et al., 1994; <u>Landrein et al., 2001</u>
- Yugoslavia (37): <u>Hamaoui and Fourcade, 1973;</u> Fleury et al., 1985; <u>*Loeblich and Tappan,</u> <u>1988</u>

Turkey (38): Fleury et al., 1985

Albania (61): Fleury et al., 1985

Croatia (62): Hamaoui and Fourcade, 1973; Gusic et al., 1988; Gusic and Jelaska, 1990

Slovenia (63): *Bignot, 1972; *de Castro, 1972; Reichel, 1984; Sartorio and Venturini, 1988

Cyprus (69): Fleury et al., 1985

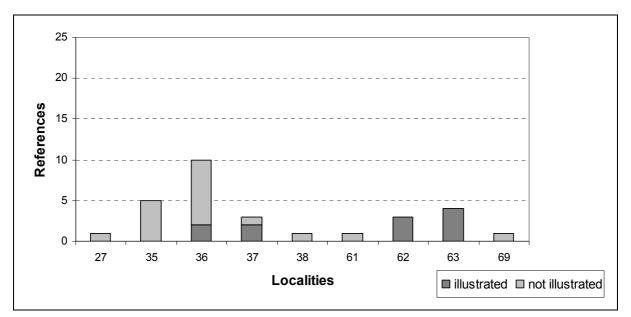


Figure 8.35: Number of illustrated and not illustrated references in the localities of Rhapydionina

For reasons of clarity the localities Yugoslavia (37), Croatia (62) and Slovenia (63) are plotted together in location 84 in figure 8.36.

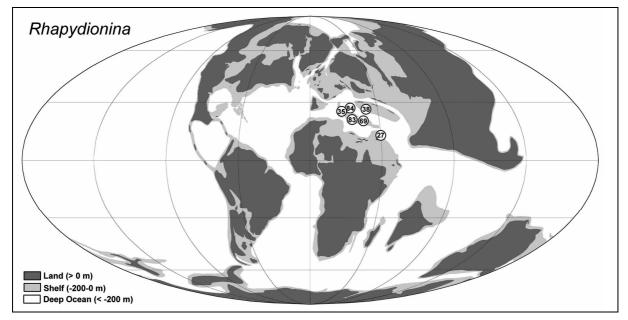


Figure 8.36: Global distribution of Rhapydionina in the Late Cretaceous

The main distribution of *Rhapydionina* in the Late Cretaceous is in Europe between Italy (35), Croatia (62), Greece (36) and Turkey (38), but there are also records of that genus from Iraq (27). The Caribbean records are highly unlikely, so that the biogeographic distribution of this genus is restricted to the European/North African region

8.9.6 Remarks

In the Cretaceous *Rhapydionina* is the megalospheric generation, while *Rhipidionina* is the microspheric one (Reichel, 1984).

8.10 Subalveolina

Suborder MILIOLINA Delage and Hérouard, 1896 Superfamily ALVEOLINACEA Ehrenberg, 1839 Family ALVEOLINIDAE Ehrenberg, 1839 Genus SUBALVEOLINA Reichel, 1936

8.10.1 Description

Reichel first described the genus *Subalveolina* in 1936 from Campanian strata of Belvès, Dordogne, France. The test of *Subalveolina* is fusiform with a length up to 10 mm and a diameter up to 1.4 mm (Reichel, 1936). The chambers are subdivided by numerous septula constructing chamberlets. In the polar region secondary chamberlets are present. A large preseptal passage is visible. The aperture consists of two rows of numerous openings.

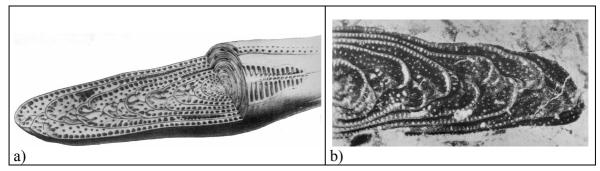


Figure 8.37: a), b) S. dordonica (Reichel); a), b) Reichel, 1936

8.10.2 Species

Type species:	Subalveolina dordonica Reichel, 1936; p. 74, pl. 4, figs. 1-4
Synonyms:	Subalveolina Reichel, 1936; p. 73; pl. 4, figs. 1-4
Species:	S. dordonica Reichel, 1936; p. 74; pl. 4, figs. 1-4
	S. pérébaskini Reichel, 1953; p. 257; pl. 13, figs. 1, 2; pl. 14, figs. 1-7

8.10.3 Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
FRA (31)		Х	Х		

Figure 8.38: Stratigraphic range of the genus *Subalveolina* in its reported localities

The genus *Subalveolina* is only known from France (31; Reichel, 1936, 1953; Fleury et al., 1985; Caus and Hottinger, 1986) with a first appearance in the Early Senonian (Hottinger, 1997). It is recorded from the Santonian and from the Campanian, but there are no records of Maastrichtian species. *Subalveolina* shows a high degree of endemism as it occurs exclusively in France (31; Caus and Hottinger, 1986; Loeblich and Tappan, 1988; Reichel, 1936, 1953; Séronie-Vivien, 1972). As *Subalveolina* is only reported from France it should be originated there.

8.10.4 Biology

In France *Subalveolina* is associated with *Dictyopsella* and *Nummofallotia*. The species *S. pérébaskini* Reichel is reported together with *Lacazina elongata*.

This genus is interpretated to have lived in the upper photic zone at depths to 40 m (Hottinger, 1997) in high energy zones of a shallow ramp (Hohenegger, 1999). In contrast, Hottinger (1983) interprets the habitat as a soft substrate in an environment of low water energy. Comparative observations on modern elongate Alveolinids make the latter interpretation more likely (Langer and Lipps, 2003).

8.10.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Subalveolina* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

France (31): <u>Reichel, 1936</u>; <u>Reichel, 1953</u>; Séronie-Vivien, 1972; Fleury et al., 1985; Caus and Hottinger, 1986; <u>Loeblich and Tappan, 1988</u>
Sentherm France Dillare, 1072

Southern Europe: Dilley, 1973

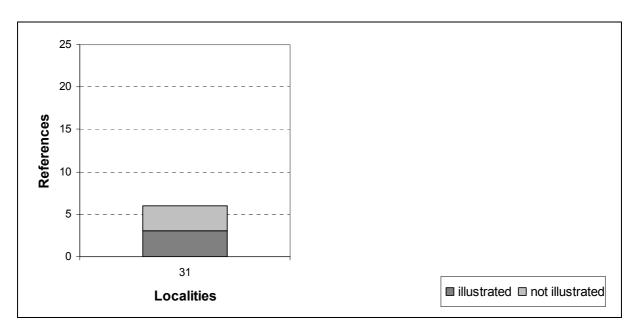


Figure 8.39: Number of illustrated and not illustrated references in the localities of Subalveolina

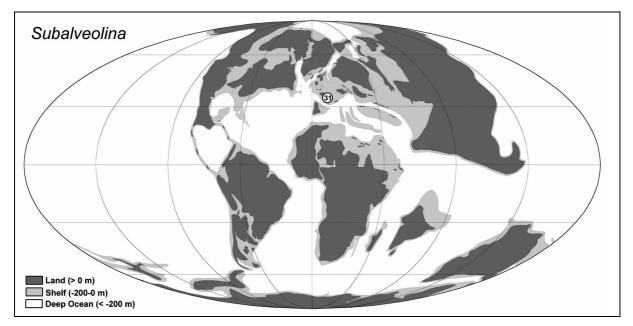


Figure 8.40: Global distribution of Subalveolina in the Late Cretaceous

In the Late Cretaceous *Subalveolina* occurs in France (31; Reichel, 1936, 1953; Séronie-Vivien, 1972; Caus and Hottinger, 1986; Loeblich and Tappan, 1988). *Subalveolina* shows a high degree of endemism, as it is restricted to SW Europe.

8.10.6 Remarks

Caus and Hottinger (1986) quote Pécheux (1984) that it was also reported from the Santonian-Campanian of Mexico (76), but this cannot be verified.

8.11 Meandropsina

Suborder MILIOLINA Delage and Hérouard, 1896 Superfamily ALVEOLINACEA Ehrenberg, 1839 Family MEANDROPSINIDAE Henson, 1948 Genus MEANDROPSINA Munier-Chalmas, 1898

8.11.1 Description

Munier-Chalmas defined the genus *Meandropsina* (in Schlumberger, 1898) based on Cretaceous material from Tobillas, Spain. *Meandropsina* has a large discoidal test with a diameter of up to 17 mm (Loeblich and Tappan, 1988) and a thickness of 0.5 mm (Loeblich and Tappan, 1988). The early chambers are planispiral with strongly curved septa. Later the chambers become peneropline and finally cyclical. The chambers are subdivided by numerous straight septula forming nearly rectangular chamberlets. The arrangement of the chambers appears somewhat irregular and the septa on the outside of the test are meandering.

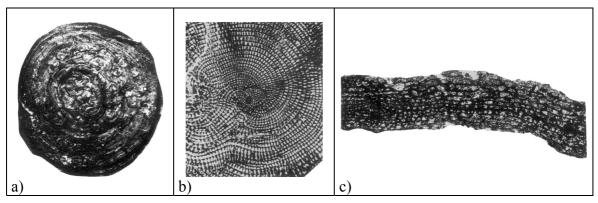


Figure 8.41: a) - c) M. vidali Schlumberger; a) - c) Schlumberger, 1898

8.11.2 Species

Type species:	Meandropsina vidali Schlumberger, 1898; p. 337 ⁺
Synonyms:	Meandropsina Munier-Chalmas, in Schlumberger, 1898; p. 336
Species:	M. vidali Schlumberger, 1898; p. 337; pl. 8, figs. 1-3; pl. 9, figs. 4-6

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
FRA (31)				Х	
ESP (32)	?	Х	Х	?	
IRN (56)	?	?	?	?	

8.11.3 Age

Figure 8.42: Stratigraphic range of the genus *Meandropsina* in its reported localities

The first stratigraphic occurrence of *Meandropsina* is in the Santonian of Spain (32; Hottinger, 1966; Caus and Cornella, 1983) respectively in the Pyrenees (31/32; Caus and Hottinger, 1986). Records from the Campanian exist only from Pyrenean sites (31/32; Caus and Hottinger, 1986). In the Maastrichtian *Meandropsina* is reported from France (Barrier and Neumann, 1959) and China (73; Gaetani et al., 1980), but a verification of these reports is still required. From the Senonian *Meandropsina* is reported from Spain (32; Loeblich and Tappan, 1988) and from Iran (56; Loeblich and Tappan, 1988). Dilley (1971) already reports the genus from the Cenomanian of southern Europe and southwest Asia. *Meandropsina* originated in the Pyrenean region.

8.11.4 Biology

Meandropsina is commonly associated with *Nummofallotia* (Hottinger, 1966). In comparison to modern discoidal morphotypes (e.g., *Sorites*) it appears plausible to assume a preferred epiphytic habitat for *Meandropsina* (Langer, 1993). This is in agreement with assumptions by Hottinger (1983, 1997) who places the genus in the upper photic zone down to a depth of approximately 40 m.

8.11.5 Biogeographic distribution and Faunal Province

From the Late Cretaceous *Meandropsina* is reported from the following localities (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

France (31): Barrier and Neumann, 1959

Spain (32): *<u>Schlumberger, 1898;</u> Hottinger, 1966; Caus and Cornella, 1983; *<u>Loeblich and</u> <u>Tappan, 1988</u>

Pyrenees (31/32): Caus and Hottinger, 1986

Southern Europe: Dilley, 1973

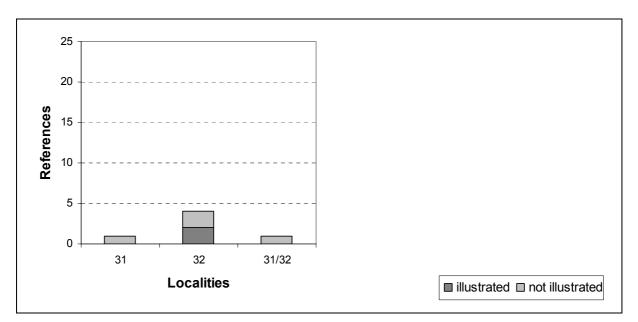


Figure 8.43: Number of illustrated and not illustrated references in the localities of Meandropsina

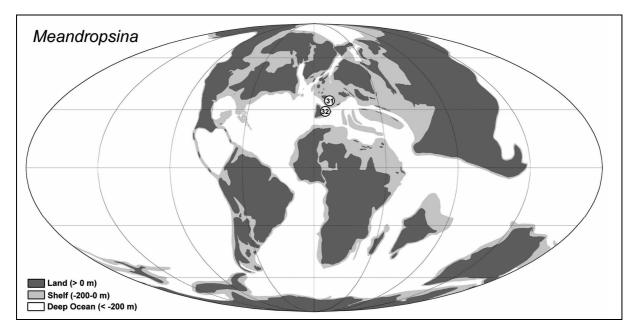


Figure 8.44: Global distribution of Meandropsina in the Late Cretaceous

In the Late Cretaceous *Meandropsina* did occur in the Pyrenean Gulf to which it was restricted according to Caus and Hottinger (1986). Loeblich and Tappan (1988) also report it from the Senonian of Iran, but this cannot be verified by illustrations or by a citation. Gaetani et al. (1980) report the genus in Maastrichtian sediments in China. However, his illustration shows a specimen that belongs to *Fascispira*. The genus is therefore endemic to the Pyrenean Gulf with a regional distribution pattern similar to *Lacazina*.

8.11.6 Remarks

In the Caribbean area *?Meandropsina rutteni* is reported from the Maastrichtian of Cuba (1; Caudri, 1944; Brönnimann, 1954) and Mexico (76; Caudri, 1944). The morphological structure of the Caribbean *Meandropsina* records however, is distinctly different and therefore belongs to the genus *Ayalaina*.

Renz (1936) reports of the species ?*Meandropsina* n. sp. aff. *Nonionina cretacea* from the Maastrichtian of Switzerland (58; pl. 33, figs. 1, 2), which clearly shows oblique septa, which do not occur in *Meandropsina*. It is more likely that these specimens belong to the type species of *Nummofallotia* Barrier and Neumann. For the same reasons, also *Meandropsina vidali* from the Maastrichtian of Switzerland (58; pl. 33, figs. 3, 5, 6) and *Meandropsina* sp. from the Maastrichtian of Switzerland (58; pl. 30, fig. 3; pl. 31, fig. 3) should be considered to be members of *Nummofallotia*. Due to these results also the not illustrated records of *Meandropsina* sp. from Spain (32), Portugal (39) and France (31) are doubtful.

Gaetani et al. (1980) report of *?Meandropsina* sp. from the late Maastrichtian of Ladakh-Himalaya (73; pl. 11, fig. 4b), but the illustration depicts a *Fascispira* and not a *Meandropsina*. *Meandropsina vidali* from the Santonian of Spain (32; pl. 8, fig. 2), which is reported by Schlumberger (1899) is more similar to *Fallotia* than to *Meandropsina* as the chambers are strongly overlapping, while in *Meandropsina* the chambers become peneropline and later cyclical. Also the other illustrated specimens (pl. 9, figs. 11, 14) cannot be assigned to *Meandropsina* as they lack a peneropline stage (pl. 9, fig. 11) and because the test is not discoidal but lenticular (pl. 9, fig. 14).

8.12 Nummofallotia

Suborder MILIOLINA Delage and Hérouard, 1896 Superfamily ALVEOLINACEA Ehrenberg, 1839 Family MEANDROPSINIDAE Henson, 1948 Genus NUMMOFALLOTIA Barrier and Neumann, 1959

8.12.1 Description

The type species of *Nummofallotia*, *Nonionina cretacea*, was established by Schlumberger (1899), based on material from the Santonian of Tragó de Noguera, Spain. In 1959, Barrier and Neumann erected the new genus *Nummofallotia* (p. 228). The test of *Nummofallotia* is lenticular with a diameter of up to 0.3 mm and a maximum thickness of 0.1 mm (Luperto Sinni, 1968). The globular proloculus is followed by a short flexostyle. The five whorls are arranged planispirally. The septa are distinct oblique and backwards curved towards the periphery.

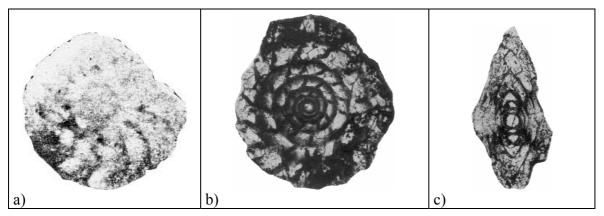


Figure 8.45: a) - c) Nonionina cretacea Schlumberger; a) - c) Schlumberger, 1899

8.12.2 Species

Type species: Nonionina cretacea Schlumberger, 1899; p. 460; pl. 8, fig. 1; pl. 11, fig. 21, 22
Synonyms: Nummofallotia Barrier and Neumann, 1959; p. 228
Meandropsina vidali Renz, 1936; pl. 33, fig. 3-6
?Meandropsina n. sp. aff. Nonionina cretacea Renz, 1936; pl. 30, fig. 3; pl. 31, fig. 3; pl. 33, figs. 1, 2; txtfig. 5b

Species: N. apula Luperto Sinni, 1968; p. 97; pl. 1, fig. 1-6; pl. 2, figs. 1-6; pl. 3, figs. 1-4, 6
N. cretacea (Schlumberger, 1899)
Nonionina cretacea Schlumberger, 1899; p. 460; pl. 8, fig. 1; pl. 11, figs. 21, 22

8.12.3	Age
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	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
FRA (31)	Х	X	Х	Х	
ESP (32)	Х	X	X	Х	
ITA (35)	?	X		Х	
GRC (36)				Х	
TUR (38)			X		
IRN (56)	Х				
NLD (57)	Х	X	X	Х	Х
CHE (58)				Х	
HRV (62)	?		X	Х	
SVN (63)	?	?	?	?	

Figure 8.46: Stratigraphic range of the genus Nummofallotia in its reported localities

The first stratigraphical record of *Nummofallotia* stem from the Cenomanian of Spain (32; Hottinger, 1966) and Iran (56; Sartorio and Venturini, 1988). From the Santonian it is known from West European localities (France, Spain, Italy, and the Netherlands). In the Campanian and in the Maastrichtian the genus is also known from localities situated more in eastern parts of Europe (Croatia, Greece, and Turkey). In the Maastrichtian *Nummofallotia* is reported from South India (44; Gowda, 1964). Hofker (1966) records the genus from the Paleocene of the Netherlands (57). It is not possible to localize the origination center of *Nummofallotia* as it occurs in the Cenomanian both in the East (Iran) and in the West (Spain) of the Tethys.

8.12.4 Biology

In France (31) *Nummofallotia* was found in association with *Orbitoides* (Santonian – Maastrichtian), *Dictyopsella* (Santonian – Maastrichtian), *Subalveolina dordonica* (Santonian), *Siderolites* (Santonian – Maastrichtian), and *Cuneolina* (Campanian).

In Spain (32) *Nummofallotia* is associated with *Dictyopsella* (Santonian, Campanian), *Orbitoides* (Campanian), and *Meandropsina vidali* (Santonian).

Together with *Cuneolina Nummofallotia* appeared in Croatia (62; Campanian) as well as in Italy (35; Santonian – Maastrichtian). Further in the Maastrichtian of Italy *Nummofallotia* occurs together with *Raadshoovenia salentina*.

In Turkey (38) *Nummofallotia* is associated in the Campanian with *Helicorbitoides* and *Orbitoides*.

In the Maastrichtian of southern India (44) *Nummofallotia* occurs together with *Lepidorbitoides*, *Orbitocyclina* and *Siderolites*.

Nummofallotia probably lived, like all meandropsinids, in regions of low water energy on soft substrate (Hottinger, 1983), in lagoons in the back-reef area (Gusic et al., 1998), on shallow marine carbonate ramps (Gischler et al., 1994), or on external platforms (Mavrikas et al., 1994). *Nummofallotia apula* is reported from shallow subtidal sites on protected platforms (Gusic and Jelaska, 1990) in temperate-warm water (Luperto Sinni, 1968).

8.12.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Nummofallotia* occurs in the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

- France (31): *Barrier and Neumann, 1959; Gendrot, 1965; Gendrot, 1968; Séronie-Vivien, 1972; van Gorsel, 1973a; *Loeblich and Tappan, 1988
- Spain (32): <u>Schlumberger, 1899</u>; Hottinger, 1966; Hofker, 1967; *<u>Azéma et al., 1979</u>; Caus and Vicens, 1984; *<u>Loeblich and Tappan, 1988</u>
- Italy (35): <u>Luperto Sinni, 1968</u>; <u>Luperto Sinni and Ricchetti, 1978</u>; Ricchetti and Luperto Sinni, 1979; *Sartorio and Venturini, 1988
- Greece (36): Mavrikas et al., 1994

Turkey (38): Sirel, 1995

- Netherlands (57): Hofker, 1966; Loeblich and Tappan, 1988
- Switzerland (58): Renz, 1936
- Slovenia (62): Gusic and Jelaska, 1990; Gusic et al., 1998
- Southern Europe: *Dilley, 1973
- Western Tethys: Fleury et al., 1985

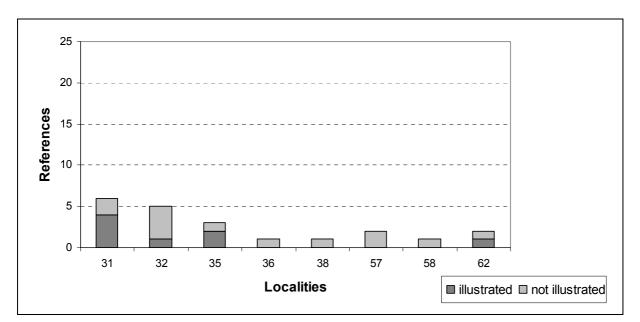


Figure 8.47: Number of illustrated and not illustrated references in the localities of Nummofallotia

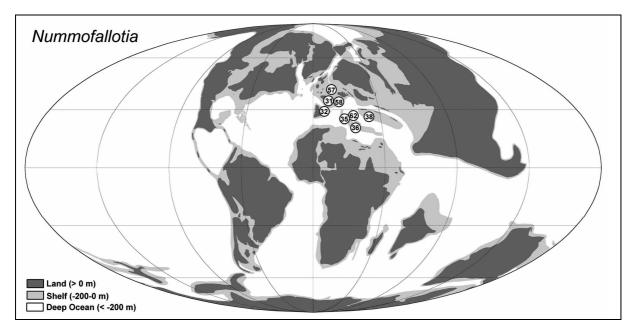


Figure 8.48: Global distribution of Nummofallotia in the Late Cretaceous

In the Late Cretaceous *Nummofallotia* is mainly distributed in Southern Europe. It occurs in the region between the Netherlands (57; Hofker, 1966; Loeblich and Tappan, 1988), Spain (32; Schlumberger, 1899; Hottinger, 1966; Hofker, 1967; Caus and Vicens, 1984; Loeblich and Tappan, 1988), Turkey (38; Sirel, 1995) and Greece (36; Mavrikas et al., 1994). This biogeographic pattern exhibits a superregional distribution. However, *Nummofallotia* is also reported from the Maastrichtian of Southern India (44; Gowda, 1964; McGowran, 1968), but these citations lack an illustration and require further confirmation.

8.12.6 Remarks

Renz (1936) mentions Maastrichtian specimens from Switzerland (*?Meandropsina* n. sp. aff. *Nonionina cretacea*, pl. 33, figs. 1, 2; *Meandropsina vidali*, pl. 33, figs. 3, 5, 6; *Meandropsina* sp., pl. 30, fig. 3; pl. 31, fig. 3) to the genus *Meandropsina*. However, these specimens show oblique septa, which do not occur in *Meandropsina* but belong to *Nummofallotia* Barrier and Neumann. With this background *Meandropsina* sp. records from Spain (32), Portugal (39) and France (31) are also doubtful and may belong to *Nummofallotia* too.

8.13 *Orbitoides*

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ORBITOIDACEA Schwager, 1876 Family ORBITOIDIDAE Schwager, 1876 Subfamily ORBITOIDINAE Schwager, 1876 Genus ORBITOIDES d'Orbigny, 1848

8.13.1 Description

The genus *Orbitoides* was established by d'Orbigny (1848). The test of *Orbitoides* is lenticular with a circular outline, and can reach a diameter of up to 5 cm (Loeblich and Tappan, 1988). The test is biconvex, often with one side more elevated. The surface is ornamented with small knobs. The juvenarium consists of three or four chambers and is usually embraced by a thick wall. An equatorial layer is distinct.

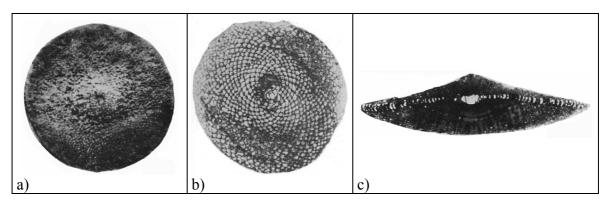


Figure 8.49: a), c) *O. apiculata* Schlumberger, b) *O. apiculata browni* (Ellis); a), c) Loeblich and Tappan, 1988, b) Ayala-Castanares, 1963

8.13.2 Species

Type species:	<i>Lycophris faujasii</i> Defrance, 1823 ⁺				
Synonyms:	Orbitoides d'Orbigny, 1848 ⁺				
	Monolepidorbis sanctae-palagiae Astre, 1928 ⁺				
Species:	Monolepidorbis sanctae-palagiae Astre, 1928 ⁺				
	<i>O. apiculata</i> Schlumberger, 1901 ⁺				
	<i>O. apiculatus</i> Schlumberger ⁺				
	O. brinkae Visser, 1951; p. 296; pl. 9, fig. 5; pl. 11, figs. 2, 5				

O. browni (Ellis, 1932)⁺

O. compressa Marks⁺

O. dordoniensis Hofker, 1967

O. faujasii (Defrance)⁺

O. gensacicus (Leymerie)⁺

O. gruenbachensis Papp, 1955

O. jaegeri Papp and Küpper, 1953b⁺

O. hottingeri van Hinte, 1966

O. media Papp 1956

O. medius (d'Archiac)⁺

O. megaloformis Papp and Küpper, 1953

O. orientalis Rahaghi, 1976; pl. 4, figs. 1-16

O. palmeri Gravell, 1930

O. tissoti Schlumberger, 1903; p. 259; pl. 8, figs. 21-25

O. vacuolaris (Astre)⁺

O. villasensis Seiglie and Ayala-Castanares, 1963; p. 36; pl. 31, figs. 1, 2; pl.

32, figs. 1-3; pl. 33, figs. 1-3; pl. 34, figs. 1-3

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)			X	X	
F-USA (2)			Х	Х	
S-MEX (3)			Х	Х	Х
JAM (6)				X	
HTI (7)			Х		
VEN (10)				Х	
DZA (16)		Х	Х	Х	
TUN (17)		Х	Х		
LBY (18)			Х	X	
EGY (20)			Х	X	
SAU (22)				X	
OMN (23)			Х	X	
QAT (24)				X	
YEM (25)				X	
SOM (26)			Х	X	
SYR (28)				X	
BEL (30)				X	Х
FRA (31)		Х	Х	X	
ESP (32)		Х	Х	X	
GER (33)			Х		

8.13.3	Age
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SI-ITA (34)		Х	X	
ITA (35)		Х	X	X
GRC (36)		Х	Х	
YUG (37)		Х	X	
TUR (38)		Х	X	?
ROM (41)		Х	Х	
RUS (42)				X
N-IND (45)			Х	
PAK (46)		Х	Х	
T-CHN (48)		Х	Х	
PNG (51)	?	Х	Х	
NE-MEX (52)		Х		
IRN (56)		Х	Х	
NLD (57)			X	X
CHE (58)		Х	X	
AUT (59)		Х	X	
MKD (60)			X	
HRV (62)	Х	Х		
SVN (63)		?	X	
MEXu (68)	Х	Х	Х	
ZYP (69)			Х	
MMR (70)			Х	
SVK (71)		Х		
S-ITA (72)			Х	

Figure 8.50: Stratigraphic range of the genus Orbitoides in its reported localities

The first occurrences of *Orbitoides* are from the Santonian of Algeria (16), Tunisia (17), France (31), Spain (32), Croatia (62), and Mexico (68). To date it is not clear from which region this genus originated.

8.13.4 Biology

Orbitoides usually occurs together with specimens of the genera *Omphalocyclus*, *Siderolites*, *Lepidorbitoides*, and *Sulcoperculina*. In the Late Cretaceous *Orbitoides* is interpreted to have lived in "deeper environments" (Hohenegger, 1999) in the upper photic zone at depths of about 40-80 m (Hottinger, 1997). The environment is mostly interpreted as being open marine with some terrigenous input (Caus, 1988; Caus et al., 2002). The morphology (thick lenticular test, presence of lateral chambers) indicates a habitat in high energetic environments, which is supported by the presence of *Siderolites*.

8.13.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Orbitoides* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

- Cuba (1): Caudri, 1944; Brönnimann, 1954; <u>Küpper, 1954a</u>; <u>Seiglie and Ayala-Castanares</u>, <u>1963; Ellis and Messina, 1967</u>; de Castro, 1990; Neumann, 1993
- Florida (2): *Brönnimann, 1954; <u>Küpper, 1954a</u>; Brönnimann, 1957; <u>Ellis and Messina</u>, <u>1967</u>; Neumann, 1993; *Ismail and Boukhary, 2001
- S-Mexico (3): <u>Ayala-Castanares, 1963</u>; Butterlin, 1967; Myers, 1968; <u>Pécheux, 1984</u>; de Castro, 1990; Rosales Dominguez et al., 1994
- Jamaica (6): <u>Gunter et al., 2002</u>
- Haiti (7): Butterlin, 1967
- Venezuela (10): Renz, 1955; Ellis and Messina, 1967; Neumann, 1993
- Algeria (16): Ellis and Messina, 1967; de Castro, 1990; Neumann, 1993; Caus et al., 1996
- Tunisia (17): Ellis and Messina, 1967
- Libya (18): Ellis and Messina, 1967; de Castro, 1990
- Egypt (20): de Castro, 1990; Ismail and Boukhary, 2001
- Saudi Arabia (22): Meric et al., 2001
- Oman (23): Meric et al., 2001; Abdelghany, 2003
- Qatar (24): Fleury et al., 1990
- Yemen (25): Sartorio and Venturini, 1988; Fleury et al., 1990
- Somalia (26): Fleury et al., 1990; Neumann, 1993
- Syria (28): Ellis and Messina, 1967; Ismail and Boukhary, 2001
- Belgium (30): Hofker, 1966
- France (31): Grossouvre, 1904; Paquier, 1904; Renz, 1936; Visser, 1951; Papp and Küpper, 1953a; Küpper, 1954b; Papp, 1954; Papp, 1956; Barrier and Neumann, 1959; Ellis and Messina, 1967; Neumann, 1972; Séronie-Vivien, 1972; van Gorsel, 1973a; Wannier, 1983; Drooger, 1984; Baumfalk and van Hinte, 1985; Loeblich and Tappan, 1988; de Castro, 1990; Neumann, 1993; Caus et al., 1996; Meric et al., 1997; Ismail and Boukhary, 2001
- Spain (32): Renz, 1936; *Küpper, 1954b; Hottinger, 1966; Hofker, 1967; Neumann, 1972; Azéma et al., 1979; Caus and Cornella, 1983; Wannier, 1983; Caus and Vicens, 1984; Caus, 1988; Loeblich and Tappan, 1988; de Castro, 1990; Neumann, 1993; Gischler et al., 1994; Caus et al., 1996

Germany (33): <u>Hagn, 1971</u>

- Sicily (34): Ellis and Messina, 1967; Sartorio and Venturini, 1988; de Castro, 1990; *Ismail and Boukhary, 2001
- Italy (35): Renz, 1936; Ellis and Messina, 1967; Luperto Sinni and Ricchetti, 1978; Sartorio and Venturini, 1988; de Castro, 1990; *Fleury et al., 1990; *Ismail and Boukhary, 2001
- Greece (36): Arni, 1933; Renz, 1936; Visser, 1951; Butterlin, 1967; <u>Ellis and Messina, 1967</u>;
 Richter, 1974; Richter and Mariolakos, 1976; *Fleury, 1977; Zambetakis-Lekkas, 1988; de Castro, 1990; <u>Fleury et al., 1990</u>; Mavrikas et al., 1994; *Ismail and Boukhary, 2001
- Yugoslavia (37): de Castro, 1990
- Turkey (38): Neumann, 1972; de Castro, 1990; Sirel, 1991; Neumann, 1993; Özcan, 1993; Sirel, 1995; Caus et al., 1996; Inan, 1996a; Inan, 1996b; Sirel, 1996; Meric et al., 1997; Özcan and Özkan-Altiner, 1997; Görmüs, 1999; Özcan and Özkan-Altiner, 1999a; Özcan and Özkan-Altiner, 1999b; Özkan-Altiner and Özcan, 1999; Meric and Görmüs, 2001; Meric et al., 2001
- Romania (41): Bratu, 1975; Ion, 1975; de Castro, 1990
- N-India (45): Nagappa, 1959
- **Pakistan (46):** <u>Nagappa, 1959;</u> <u>Ellis and Messina, 1967;</u> McGowran, 1968; Kureshy, 1977; Kureshy, 1980; Neumann, 1993; <u>Weiss, 1993;</u> Ismail and Boukhary, 2001
- Tibet (48): Nagappa, 1959; <u>Ellis and Messina, 1967</u>; Mu et al., 1973; <u>Ho et al., 1976</u>; Sun and Zhang, 1983; Fleury et al., 1985; Wen, 1987; Willems et al., 1996; Ismail and Boukhary, 2001
- Papua New Guinea (51): Ellis and Messina, 1967; McGowran, 1968; Fleury et al., 1985; Neumann, 1993
- NE-Mexico (52): Caus et al., 2002
- Iran (56): *Cox, 1937; <u>Rahaghi, 1976</u>; de Castro, 1990; Meric and Coruh, 1991; Meric et al., 2001
- Netherlands (57): Renz, 1936; <u>Visser, 1951</u>; Papp, 1954; Hofker, 1966; <u>Ellis and Messina,</u> <u>1967</u>; <u>Loeblich and Tappan, 1988</u>; de Castro, 1990; <u>Neumann, 1993</u>; *<u>Caus et al., 1996</u>; <u>Ferràndez-Canadell, 2000</u>; Ismail and Boukhary, 2001
- Switzerland (58): <u>Renz, 1936</u>; Visser, 1951; <u>Ellis and Messina, 1967</u>; Wannier, 1983; de Castro, 1990; Bignot and Neumann, 1997
- Austria (59): Visser, 1951; Papp and Küpper, 1953a; Papp and Küpper, 1953b; Papp, 1954;
 Papp, 1955b; Papp, 1955c; Papp, 1956; de Castro, 1990; Neumann, 1993; *Caus et al., 1996; Bignot and Neumann, 1997
- Macedonia (60): Butterlin, 1967

Croatia (62): Gusic et al., 1988; Gusic and Jelaska, 1990 Slovenia (63): <u>Bignot, 1972</u>; de Castro, 1990 Philippines (65): *Hashimoto et al., 1978a Mexico undifferentiated (68): <u>Butterlin, 1981</u> Cyprus (69): Renz, 1936 Birma (70): Fleury et al., 1985 Slovakia (71): Neumann, 1993

Sardinia (72): Busulini et al., 1984

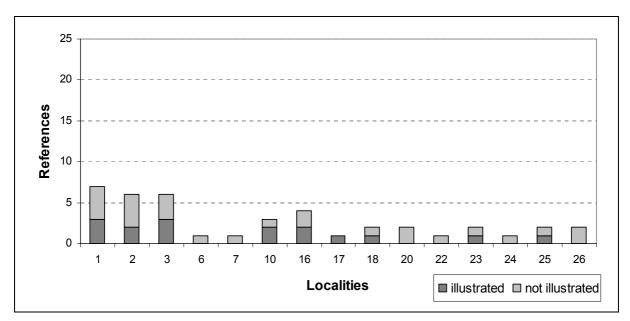


Figure 8.51a: Number of illustrated and not illustrated references in the localities of Orbitoides

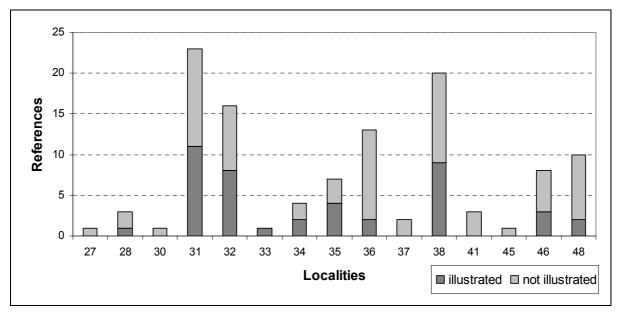


Figure 8.51b: Number of illustrated and not illustrated references in the localities of Orbitoides

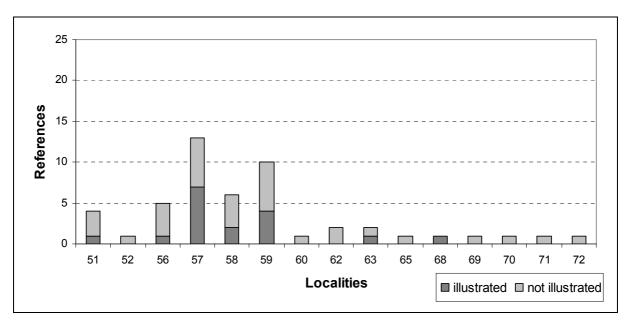


Figure 8.51c: Number of illustrated and not illustrated references in the localities of Orbitoides

For reasons of clarity the following locations were plotted together in figure 8.52: Belgium (30) and the Netherlands (57) in locality 80; Germany (33), Switzerland (58) and Austria (59) in locality 82; Greece (36) and Macedonia (60) in locality 83; Yugoslavia (37), Croatia (62), and Slovenia (63) in locality 84.

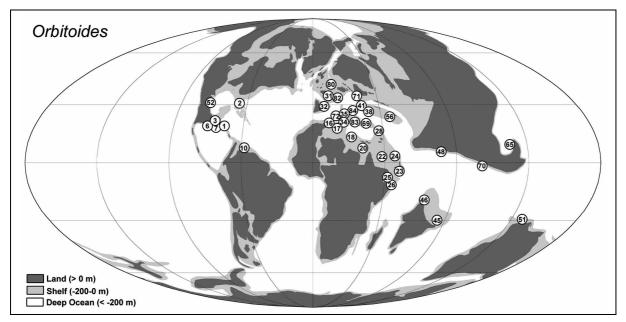


Figure 8.52: Global distribution of Orbitoides in the Late Cretaceous

The biogeographic distribution of the genus *Orbitoides* is circumtropical. It is widely present in the Caribbean realm between North America and Venezuela, as well as in the entire Tethyan region all the way to India and to the Philippines. The genus *Orbitoides* displays some of the widest latitudinal and longitudinal extensions among the larger Upper Cretaceous foraminifera. The particularly wide distribution over the circumtropical warm water belt of the Cretaceous ocean is comparable to the distribution of modern amphisteginids (Langer and Hottinger, 2000) and is thus a particularly valuable tracer indicative of circumglobal warm-water surface currents and the heat transfer towards higher latitudes.

8.13.6 Remarks

Caus and Cornella (1983) report *Orbitoides douvillei* from the Campanian of Spain, which Loeblich and Tappan (1988) designated as the type species of *Schlumbergeria* Silvestri, which again is a synonym of *Orbitoides* Loeblich and Tappan (1988).

Grossouvre (1904) reports *Orbitoides socialis* from the Cretaceous of France and *Orbitoides minor* from the Cretaceous of the Netherlands. The former is the type species of *Lepidorbitoides*, whereas the latter is a synonym of *Lepidorbitoides*. As for both species no illustration is given, the records are not considered here.

Further Grossouvre (1904) mentions *Orbitoides mamillata* from the Cretaceous of France, which is the type species of *Clypeorbis*. Again, it lacks an illustration, so that the record remains doubtful.

Meric and Coruh (1991) interpret the specimens of *Orbitoides concavatus* Rahaghi from the Campanian of Iran (Rahaghi, 1976; pl. 4, figs. 11-25) as a primitive type of *Omphalocyclus* and establish the new genus *Praeomphalocyclus concavatus* (Rahaghi) for these specimens.

8.14 *Omphalocyclus*

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ORBITOIDACEA Schwager, 1876 Family ORBITOIDIDAE Schwager, 1876 Subfamily OMPHALOCYCLINAE Vaughan, 1928 Genus OMPHALOCYCLUS Bronn, 1853

8.14.1 Description

Bronn defined the genus *Omphalocyclus* in the year 1853 (in Bronn and Roemer, 1853). The type location is not known but the Stratigraphic age for the type material is most probably Maastrichtian. The test of *Omphalocyclus* is discoidal and biconcave. It resembles modern representatives of the *Sorites* or *Marginopora*. The dimension is species-specific with a diameter of 1.2-7.0 mm and a thickness of 0.24-0.98 mm. The exterior of the test is structured by numerous distinct large openings. The juvenarium consists of 2-4 chambers. The alternating equatorial chambers become subrectangular and increase in height towards the periphery. A third layer of equatorial chambers is inserted.

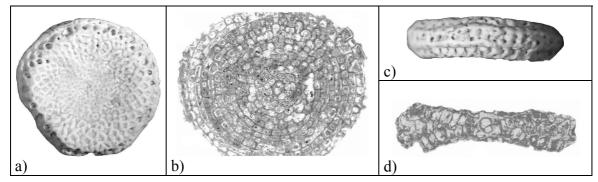


Figure 8.53: a), c) *Omphalocyclus* sp., b), d) *O. macroporus* (Lamarck); a), c) Goldbeck, b) Abramovich et al., 2002, d) Butterlin, 1981

8.14.2 Species

Type species:Orbulites macropora Lamarck, 1816+Synonyms:Omphalocyclus Bronn, in Bronn and Roemer, 1853Species:O. macropora (Lamarck, 1816)O. macroporus (Lamarck, 1816)

O. maldonensis Gunter et al., 2002; p. 150; pl. 1, figs. 1-6

O. disculus (Leymerie, 1851)

O. schlumbergeri (Silvestri, 1907)

8.14.3 Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)				Х	X
JAM (6)				X X	
VEN (10)				Х	
DZA (16)				Х	
TUN (17)				Х	
LBY (18)				Х	
EGY (20)			X		
SAU (22)				Х	
OMN (23)			Х	Х	
YEM (25)	?	?	?	?	
SOM (26)	?	?	?	?	
IRQ (27)				Х	
SYR (28)				Х	
MDG (29)			Х		
BEL (30)				Х	
FRA (31)				Х	
ESP (32)				Х	
GER (33)				Х	
ITA (35)				Х	
GRC (36)				Х	
TUR (38)			Х	Х	
ROM (41)				Х	
N-IND (45)				Х	
PAK (46)			Х	Х	
T-CHN (48)			Х	Х	
IRN (56)				Х	
NLD (57)				Х	Х
CHE (58)				Х	
AUT (59)				Х	
HRV (62)				Х	
SVN (63)				Х	
PHL (65)				Х	Х
ZYP (69)		?	?	?	
SVK (71)				Х	

Figure 8.54: Stratigraphic range of the genus Omphalocyclus in its reported localities

The main stratigraphic distribution of *Omphalocyclus* is in the Maastrichtian, where it is reported from the Caribbean, Africa, Europe and Asia. There are also some Campanian

records from the eastern part of the Tethys (Tibet, Pakistan, Turkey, Madagascar, Oman and Egypt). In the Paleogene *Omphalocyclus* is described from Cuba (1; Ellis and Messina, 1967), the Netherlands (57; Hofker, 1966) and the Philippines (65; Hashimoto et al., 1978a). From Qatar (24; Fleury et al., 1990), Yemen (25; Fleury et al., 1990), and Somalia (26; Fleury et al., 1990) no stratigraphic age is given, while the record from Cyprus (69; Renz, 1936) is given with a Late Cretaceous age. The origination center of *Omphalocyclus* cannot be identified as it occurs at the same time in African, European and Asian locations.

8.14.4 Biology

Individuals of *Omphalocyclus* were found in association with *Clypeorbis*, *Cuneolina*, *Dictyopsella*, *Hellenocyclina*, *Laffitteina*, *Lepidorbitoides*, *Loftusia*, *Orbitoides*, *Pseudorbitoides*, *Siderolites*, *Sirtina*, *Sulcoperculina*, and *Vaughanina*.

The lithology from which individuals of *Omphalocyclus* were collected reflects a shallow warm water environment. The depth is given between 40 and 80 m in the upper photic zone (Hottinger, 1997) and also down to 100 fathoms (= 182.88 m; Visser, 1951). Most authors place *Omphalocyclus* in a sheltered shelf area (Nagappa, 1959; Gaetani et al., 1980; Caus, 1988), which can be either in a reefal facies (Dilley, 1971; Al-Omari and Sadek, 1976) or in a depressed area with poorly oxygenated conditions (Gaetani et al., 1980). The discoidal shape of *Omphalocyclus* resembles modern epiphytes like *Sorites* or *Marginopora*, so that a preferred epiphytic habitat on seagrass leaves or algal thalli is more likely (Langer, 1993).

8.14.5 Biogeographic distribution and Faunal Province

In the uppermost Cretaceous individuals of the genus *Omphalocyclus* are reported from the following localities (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Cuba (1): Caudri, 1944; Brönnimann, 1954; *<u>Küpper, 1954b</u>; *<u>Renz, 1955</u>; <u>Hanzawa, 1962</u>; <u>Seiglie and Ayala-Castanares, 1963</u>; Loeblich and Tappan, 1988; Ismail and Boukhary, 2001

Chiapas (3): Butterlin, 1981

Jamaica (6): <u>Gunter et al., 2002</u>

Venezuela (10): <u>Renz, 1955</u>

Algeria (16): Ellis and Messina, 1967; Ismail and Boukhary, 2001

Tunisia (17): *Renz, 1936; Loeblich and Tappan, 1988

- Libya (18): Ellis and Messina, 1967; *LeBlanc, 2000; *Ismail and Boukhary, 2001
- Egypt (20): Ismail and Boukhary, 2001
- Saudi Arabia (22): Meric et al., 2001
- Oman (23): Cox, 1937; Al-Omari and Sadek, 1976; Meric et al., 2001; Abdelghany, 2003
- Qatar (24): Fleury et al., 1990
- Yemen (25): Fleury et al., 1990
- Somalia (26): Fleury et al., 1990
- Iraq (27): Al-Omari and Sadek, 1976; Fleury et al., 1990
- Syria (28): Loeblich and Tappan, 1988; Fleury et al., 1990
- Madagascar (29): Abramovich et al., 2002
- Belgium (30): Hofker, 1966
- France (31): *Grossouvre, 1904; *Renz, 1936; *<u>Küpper, 1954b;</u> Papp, 1954; <u>Ellis and Messina, 1967;</u> Loeblich and Tappan, 1988; Caus et al., 1996
- Spain (32): Hottinger, 1966; <u>Azéma et al., 1979</u>; Caus and Cornella, 1983; Caus, 1988; Neumann, 1993; Caus et al., 1996
- Germany (33): Hagn, 1971
- Italy (35): *Renz, 1936; *Visser, 1951; Loeblich and Tappan, 1988
- Greece (36): *Renz, 1936; Visser, 1951; Butterlin, 1967; <u>Hamaoui and Fourcade, 1973;</u> Kalkreuth et al., 1976; Fleury, 1977; Loeblich and Tappan, 1988; Fleury et al., 1990
- Yugoslavia (37): Fleury et al., 1990
- Turkey (38): Meric, 1967; Loeblich and Tappan, 1988; Fleury et al., 1990; Sirel, 1991; Özcan, 1993; Inan, 1996a; Inan, 1996b; Inan et al., 1996; Sirel, 1996; *Meric et al., 1997; Özcan and Özkan-Altiner, 1997; Özcan and Özkan-Altiner, 1999b; Özkan-Altiner and Özcan, 1999; Meric and Görmüs, 2001; Meric et al., 2001
- Romania (41): *Renz, 1936; <u>Hamaoui and Fourcade, 1973</u>; Ion, 1975; Loeblich and Tappan, 1988
- N-India (45): Gaetani et al., 1980
- Pakistan (46): *Renz, 1936; <u>Nagappa, 1959</u>; McGowran, 1968; Kureshy, 1977; Kureshy, 1980; <u>Weiss, 1993; Ismail and Boukhary, 2001</u>
- Tibet (48): *Renz, 1936; Nagappa, 1959; <u>Ellis and Messina, 1967</u>; Mu et al., 1973; <u>Ho et al., 1976</u>; Sun and Zhang, 1983; Wen, 1987; Loeblich and Tappan, 1988; Willems et al., 1996; Ismail and Boukhary, 2001

- Iran (56): Douvillé, 1904; *Renz, 1936; Cox, 1937; Al-Omari and Sadek, 1976; <u>Kalantari</u>, <u>1976</u>; Hottinger, 1981; Loeblich and Tappan, 1988; <u>Sartorio and Venturini</u>, <u>1988</u>; Fleury et al., 1990; Meric et al., 2001
- Netherlands (57): Grossouvre, 1904; *Renz, 1936; <u>Visser, 1951</u>; Papp, 1954; <u>Renz, 1955</u>; Hofker, 1966; <u>Ellis and Messina, 1967</u>; Loeblich and Tappan, 1988; Ismail and Boukhary, 2001
- Switzerland (58): <u>Renz, 1936</u>; Visser, 1951; <u>Ellis and Messina, 1967</u>; Loeblich and Tappan, 1988; Ismail and Boukhary, 2001
- Austria (59): Papp, 1954
- Croatia (62): Bignot, 1972
- Slovenia (63): Bignot, 1972; Fleury et al., 1990
- Philippines (65): *Hashimoto et al., 1978a; *Hashimoto et al., 1978b; <u>Hashimoto and Matsumaru, 1981;</u> *Hashimoto, 1982; Hashimoto and Matsumaru, 1984
- Cyprus (69): *Renz, 1936
- Slovakia (71): Neumann, 1993
- Mexico: Butterlin, 1981
- Caribbean: Butterlin, 1981; Caus and Hottinger, 1986
- Tethys: Caus and Hottinger, 1986
- Middle East: Dilley, 1973; Caus and Hottinger, 1986
- Pyrenees: Caus et al., 1996
- America: Dilley, 1973
- Europe: Dilley, 1973
- N Africa: Dilley, 1973
- S USSR: Dilley, 1973
- India: Renz, 1936; Dilley, 1973; Loeblich and Tappan, 1988
- Adriatic Sea: Sartorio and Venturini, 1988

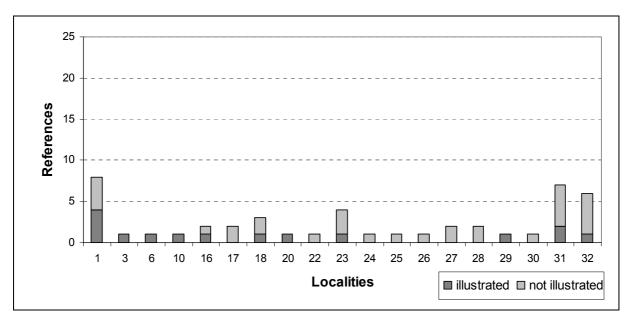


Figure 8.55a: Number of illustrated and not illustrated references in the localities of Omphalocyclus

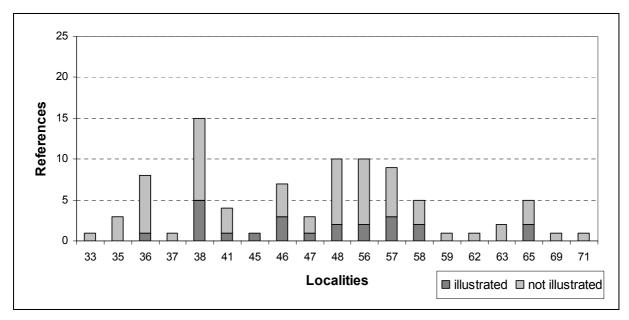


Figure 8.55b: Number of illustrated and not illustrated references in the localities of Omphalocyclus

For reasons of clarity (Fig 8.56) the following locations were plotted together: Belgium (30) and the Netherlands (57) as location 80; Germany (33), Switzerland (58) and Austria (59) as location 82; Yugoslavia (37), Croatia (62) and Slovenia (63) as location 84.

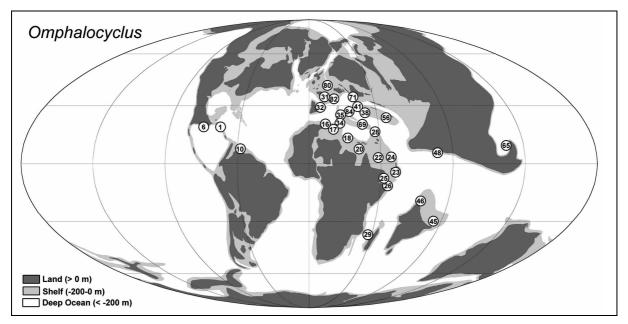


Figure 8.56: Global distribution of Omphalocyclus in the Late Cretaceous

Omphalocyclus shows a global circumtropical distribution. It occurs in all faunal provinces, with highest densities in the European and African Tethys. The southernmost occurrence is reported from Madagascar (29; Abramovich et al., 2002), the northernmost from the Netherlands (57; Grossouvre, 1904; Renz, 1936; Visser, 1951; Papp, 1954; Renz, 1955; Hofker, 1966; Ellis and Messina, 1967; Loeblich and Tappan, 1988; Ismail and Boukhary, 2001) and Belgium (30: Hofker, 1966). In the Caribbean region *Omphalocyclus* occurs only in Cuba (1; Caudri, 1944; Brönnimann, 1954; Küpper, 1954; Renz, 1955; Hanzawa, 1962; Seiglie and Ayala-Castanares, 1963; Loeblich and Tappan, 1988; Ismail and Boukhary, 2001), Jamaica (6; Gunter et al., 2002), and Venezuela (10; Renz, 1955). From the Asian Faunal Province Omphalocyclus is reported from Northern India (45; Gaetani et al., 1980), Pakistan (46; Renz, 1936; Nagappa, 1959; McGowran, 1968; Kureshy, 1977, 1980; Weiss, 1993; Ismail and Boukhary, 2001), Tibet (48; Renz, 1936; Nagappa, 1959; Ellis and Messina, 1967; Mu et al., 1973; Ho et al., 1976; Sun and Zhang, 1983; Wen, 1987; Loeblich and Tappan, 1988; Willems et al., 1996; Ismail and Boukhary, 2001) and the Philippines (65; Hashimoto et al., 1978a, 1978b; Hashimoto and Matsumaru, 1981; Hashimoto, 1982; Hashimoto and Matsumaru, 1984).

8.14.6 Remarks

Loeblich and Tappan (1988) misquote Hottinger (1981) when they report *Omphalocyclus macroporus* (Lamarck) from the Holocene of Iran, which is actually of Maastrichtian age. Meric and Coruh (1991) interpret the specimens of *Orbitoides concavatus* Rahaghi from the Campanian of Iran (Rahaghi, 1976; pl. 4, figs. 11-25) as a primitive type of *Omphalocyclus* and establish the new genus *Praeomphalocyclus concavatus* (Rahaghi) for these specimens.

8.15 *Clypeorbis*

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ORBITOIDACEA Schwager, 1876 Family LEPIDORBITOIDIDAE Vaughan, 1933 Subfamily CLYPEORBINAE Sigal, 1952 Genus CLYPEORBIS Douvillé, 1915

8.15.1 Description

In 1915, Douvillé established the subgenus *Clypeorbis*, which was previously regarded to be a member of the genus *Orbitoides* (*Orbitoides mamillata* Schlumberger, 1903) and was documented from Cretaceous deposits of Gensac (S France). Later Douvillé (1920) raised *Clypeorbis* from the level of a subgenus to the level of a genus.

The perforate test of *Clypeorbis* is subtriangular in lateral view and circular in outline. The dimension of the diameter varies between 2 and 8 mm (Loeblich and Tappan, 1988). The test is divided by an equatorial layer, which is bend towards the apex. The equatorial chambers become hexagonal towards the periphery. On both sides of the equatorial layer pillars cross the lateral chambers. On the more elevated side, a thick umbilical pillar extends from the juvenarium in the equatorial chamber to the apex.

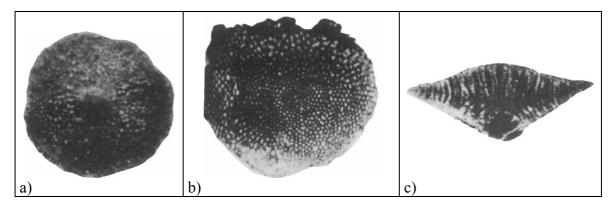


Figure 8.57: a) - c) C. mammilatus (Schlumberger) a) - c) Loeblich and Tappan, 1988

8.15.2 Species

Type species: Orbitoides mammillatus Schlumberger, 1903 (as mamillata); p. 259; pl. 8, figs. 17-20

Synonyms: Orbitoides (Clypeorbis) 1915; p. 669; figs. 18-20 Clypeorbis Douvillé, 1920⁺
Species: C. mammillatus (Schlumberger, 1903) (Orbitoides mamillata Schlumberger, 1903; p. 259; pl. 8, figs. 17-20) C. mamillata (Schlumberger, 1903)

8.15.3 Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
FRA (31)				Х	
ESP (32)				Х	
GRC (36)				Х	
TUR (38)				Х	
SVN (63)				X	
Sa-ITA (72)				Х	

Figure 8.58: Stratigraphic range of the genus *Clypeorbis* in its reported localities

Clypeorbis seem to be restricted to the Maastrichtian.

8.15.4 Biology

Clypeorbis mostly occurs in association with *Orbitoides*, *Siderolites*, *Omphalocyclus*, *Sirtina*, *Lepidorbitoides*, and *Hellenocyclina*. The distribution of *Clypeorbis* in various types of sedimentary environments points to a wide range of ecological preferences for this genus. The association with *Orbitoides* and *Lepidorbitoides* shows a great range in depth preferences, as *Orbitoides* usually occurs in shallower regions than *Lepidorbitoides*. *Clypeorbis* however, is also associated with *Siderolites* and *Omphalocyclus*. *Siderolites* usually occurs in environments of high water energy while *Omphalocyclus* is restricted to sheltered shelf areas. Overall, this points to a distinct adaptational flexibility.

8.15.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Clypeorbis* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

France (31): *Schlumberger, 1903; Hanzawa, 1962; Loeblich and Tappan, 1988; Meertens and Drooger, 1988; Hottinger and Caus, in press

Spain (32): Caus, 1988; Loeblich and Tappan, 1988; Hottinger and Caus, in press

Greece (36): Mavrikas et al., 1994

Turkey (38): Meric and Coruh, 1991; Özcan and Özkan-Altiner, 1999b; Özkan-Altiner and Özcan, 1999

Slovenia (63): Bignot, 1972

Sardinia (72): Busulini et al., 1984

Tethys: Caus and Hottinger, 1986

Pyrenees: Neumann, 1993

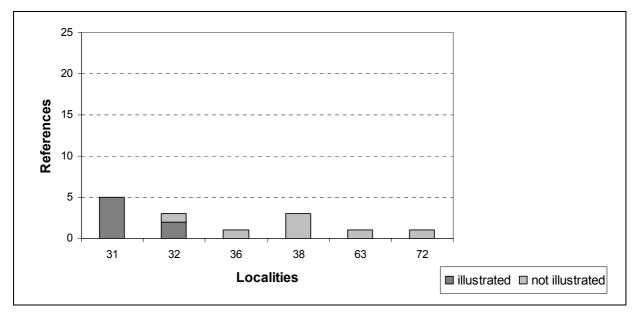


Figure 8.59: Number of illustrated and not illustrated references in the localities of Clypeorbis

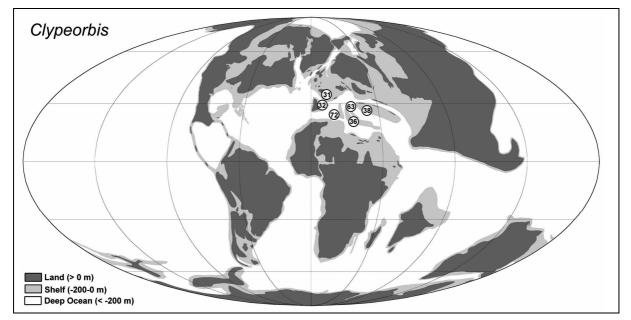


Figure 8.60: Global distribution of *Clypeorbis* in the Late Cretaceous

Clypeorbis shows a superregional distribution in the European Faunal Province. It occurs in the western part (France, Spain) as well as in the eastern part of Europe (Slovenia, Greece and Turkey). The stratigraphically first occurrence in the Campanian of Spain (Caus, 1988) might be a hint to an origination center in the Pyrenean basin with a subsequent distribution to the east.

8.15.6 Remarks

8.16 Sirtina

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ORBITOIDACEA Schwager, 1876 Family LEPIDORBITOIDIDAE Vaughan, 1933 Subfamily CLYPEORBINAE Sigal, 1952 Genus SIRTINA Brönnimann and Wirz, 1962

8.16.1 Description

Sirtina was first described by Brönnimann and Wirz (1962) based on material from the Early Maastrichtian of the Pan American International Oil Company's well A-1, in the Persian Gulf, Iran. The test of *Sirtina* is lenticular. The diameter is up to 2 mm (Loeblich and Tappan, 1988), the thickness is 0.2-0.65 mm (Brönnimann and Wirz, 1962). In the juvenarium the chambers are arranged trochospirally, later nearly planispiral involute. The test consists of three to five whorls with broad low chambers. In the last whorl 12-28 chambers are present. The septa are perpendicular to the periphery, forming nearly rectangular chambers. On the ventral side of the test thick pillars protrude from the juvenarium towards the periphery and appear as thick knobs on the surface of the test. On the dorsal side lateral chambers are intercalated by pillars. There is no equatorial layer present.

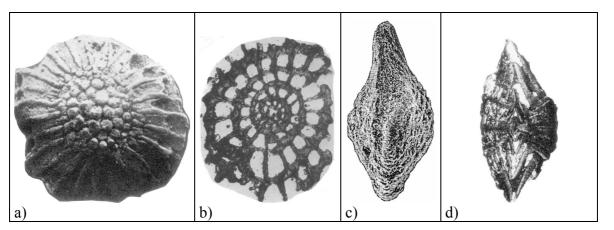


Figure 8.61: a), b), d) *S. granulata* (Rahaghi), c) *S. orbitoidiformis* Brönnimann and Wirz; a), b), d) van Gorsel, 1974, c) Bignot and Neumann, 1997

8.16.2 Species

Type species: Sirtina orbitoidiformis Brönnimann and Wirz, 1962; p. 520; figs. 2-6

Sirtina Brönnimann and Wirz, 1962; p. 520
Neumannites granulata Rahaghi 1976, pl. 2(12-22)
Iranites ornatus Rahaghi, 1976, pl. 3, figs. 1-10
S. orbitoidiformis Brönnimann and Wirz, 1962; p. 520; figs. 2-6
S. granulata (Rahaghi, 1976) (Neumannites granulata Rahaghi, 1976; pl. 2,
figs. 12-22)

8.16.3 Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
LBY (18)		X	X	X	
MDG (29)				X	
BEL (30)			X		
FRA (31)		X	X	X	
ESP (32)		X	X	X	
GRC (36)				X	
TUR (38)			Х	X	
IRN (56)		X	X	X	
AUT (59)			Х		

Figure 8.62: Stratigraphic range of the genus Sirtina in its reported localities

In the Santonian *Sirtina* is reported from Libya (18; Loeblich and Tappan, 1988), France (31; Loeblich and Tappan, 1988), Spain (32; Caus, 1988) and Iran (56; Loeblich and Tappan, 1988). As these localities are widely dislodged, it might be possible that there are also forms of pre-Santonian age, which are not yet recorded. In the Campanian the genus occurs beyond these localities in Belgium (30; Bignot and Neumann, 1997), Austria (59; Caus et al., 1996) and Turkey (38; Özcan, 1993). Maastrichtian records of *Sirtina* are reported from Libya (18; Loeblich and Tappan, 1988), Madagascar (29; Abramovich et al., 2002), France (31; Loeblich and Tappan, 1988), Spain (32; Caus, 1988), Greece (36; Mavrikas et al., 1994), Turkey (38; Sirel, 1991; Özcan, 1993; Inan, 1996a; Sirel, 1996; Özcan and Özkan-Altiner, 1999b; Hottinger and Caus, in press) and Iran (56; Loeblich and Tappan, 1988). The place of origin of *Sirtina* cannot be identified to date, as there are Santonian records from the eastern and the western side of the Tethys.

8.16.4 Biology

In the western part of the Tethys *Sirtina* is associated with *Dictyopsella* (Belgium; Campanian), *Orbitoides* and *Lepidorbitoides* (Austria; Late Campanian).

In the eastern part of the Tethys the associated larger foraminifera are *Siderolites*, *Pseudedomia*, *Orbitoides*, *Lepidorbitoides*, *Hellenocyclina* (Greece; Maastrichtian) as well as *Cuneolina*, *Clypeorbis*, *Hellenocyclina*, *Laffitteina*, *Lepidorbitoides*, *Loftusia*, *Orbitoides*, *Omphalocyclus*, and *Siderolites* (Turkey; Maastrichtian).

The preferred habitat of *Sirtina* depends on the location. In Spain, *Sirtina* seems to have lived on a carbonate platform in the deeper protected shelf (40-60 m), in reefs, shoals and bars as well as on the open marine shelf (Caus, 1988). From Greece it is reported from limestones together with large rudists (Mavrikas et al., 1994). Brönnimann and Wirz (1962) report *Sirtina* from the inner, probably littoral shelf and from the middle to outer shelf of Libya. From Iran they report it from the middle to outer shelf.

The environment in Turkey is interpreted as a shallow water habitat (Sirel, 1996; Özcan and Özkan-Altiner, 1997), in a back reef (Inan, 1996a), or a location where the deep marine grades into a turbiditic zone (Özcan and Özkan-Altiner, 1997).

Hottinger (1997) places the preferred habitat of *Sirtina* in the lower photic zone between 80 m and 120-140 m depth.

8.16.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Sirtina* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Libya (18): Brönnimann and Wirz, 1962; Loeblich and Tappan, 1988

Madagascar (29): Abramovich et al., 2002

Belgium (30): Bignot and Neumann, 1997

France (31): Loeblich and Tappan, 1988; Bignot and Neumann, 1997; Hottinger and Caus, in press

Spain (32): Caus, 1988

Greece (36): Mavrikas et al., 1994

Turkey (38): Meric and Coruh, 1991; Sirel, 1991; <u>Özcan, 1993</u>; Inan, 1996a; Inan, 1996b; Sirel, 1996; Özcan and Özkan-Altiner, 1997; Özcan and Özkan-Altiner, 1999b; <u>Hottinger and Caus, in press</u>

Iran (56): Brönnimann and Wirz, 1962; Rahaghi, 1976; Loeblich and Tappan, 1988

Austria (59): Caus et al., 1996

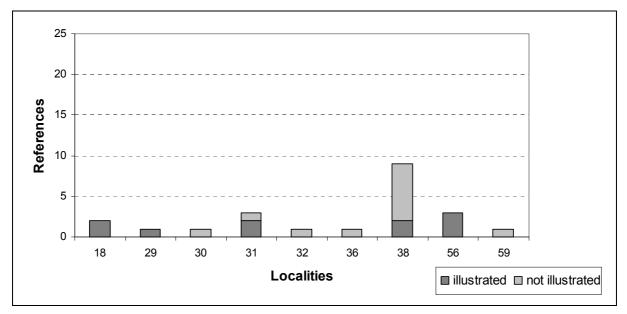


Figure 8.63: Number of illustrated and not illustrated references in the localities of Sirtina

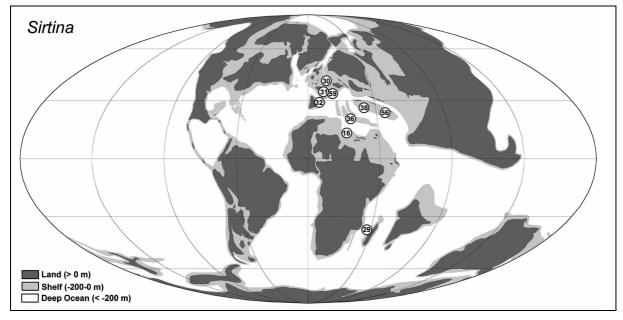


Figure 8.64: Global distribution of Sirtina in the Late Cretaceous

In the Late Cretaceous *Sirtina* shows a superregional distribution. It occurs both in the European and in the African parts of the Tethys. These occurences seem to be divided in a western region in the area of Belgium (30), France (31), Spain (32) and Austria (59) and an eastern region, which comprises Greece (36), Turkey (38), Iran (56) and Libya (18). Further there is a record from Madagascar in the Indian Ocean (29).

8.16.6 Remarks

Rahaghi (1976) reports *Neumannites granulata* n. sp. and *Iranites ornatus* n. sp. from the Late Cretaceous (Campanian-Maastrichtian) of Iran and Libya. Both species show distinct features of *Sirtina*. Loeblich and Tappan (1988) included these species in the genus *Sirtina*. *Iranites ornatus* is now considered to be a *Sirtina orbitoidiformis*.

8.17 *Helicorbitoides*

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ORBITOIDACEA Schwager, 1876 Family LEPIDORBITOIDIDAE Vaughan, 1933 Subfamily LEPIDORBITOIDINAE Vaughan, 1933 Genus HELICORBITOIDES MacGillavry, 1963

8.17.1 Description

In 1953, Papp and Küpper discovered the new species *Pseudorbitoides longispiralis* in Campanian material of Silberegg, Austria. Due to the morphological differences between Caribbean and European specimens MacGillavry (1963) established the new genus *Helicorbitoides*. The test of *Helicorbitoides* is lenticular with a nearly circular outline. The dimensions are species-specific. The diameter ranges between 2 mm and 4.5 mm, the thickness varies between 1 mm and 2 mm (van Gorsel, 1973b). The chambers are arranged in a spiral, which widens after the first whorl. The chambers are strongly arcuated. The surface is covered with pustules, which result from pillars extending from the juvenile part to the surface.

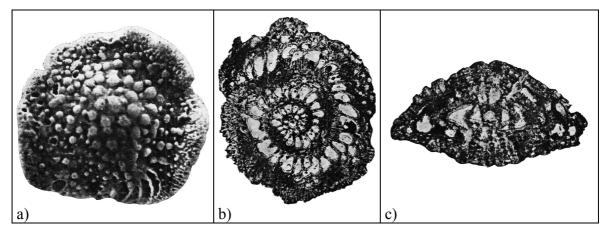


Figure 8.65: a) - c) H. voigti van Gorsel; a) - c) van Gorsel, 1973b

8.17.2 Species

Type species: *Pseudorbitoides longispiralis* Papp and Küpper, 1953c; p. 352; pl. 2, fig. 3 Synonyms: *Helicorbitoides* MacGillavry, 1963⁺ Species: *H. boluensis* Sirel, 1995; p. 87; pl. 1, figs. 1-11; pl. 2, figs. 1-11 *H. longispiralis* (Papp and Küpper, 1953c) (*Pseudorbitoides longispiralis* Papp and Küpper, 1953c; p. 352; pl. 2, fig. 3) *H. voigti* van Gorsel, 1973b, p. 276; pl. 1, figs. 2-4; pl. 2, figs. 1-3; pl. 3, figs. 2-6 *Pseudorbitoides longispiralis* Papp and Küpper, 1953c, p. 352; pl. 2, fig. 3

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
FRA (31)			Х		
TUR (38)			X		
SWE (40)			X		
CHE (58)			X		
AUT (59)			X	X	

Figure 8.66: Stratigraphic range of the genus Helicorbitoides in its reported localities

The main distribution of *Helicorbitoides* is in the Campanian of France (31; van Gorsel, 1973b), Turkey (38; Sirel, 1995) Sweden (40; van Gorsel, 1973b; Loeblich and Tappan, 1988; Sirel, 1995; Bignot and Neumann, 1997), Switzerland (58; Loeblich and Tappan, 1988) and Austria (59; Wannier, 1983; Loeblich and Tappan, 1988). The only record of *Pseudorbitoides longispiralis* of Maastrichtian age stems from Austria (59; Papp and Küpper, 1953b; Papp, 1954; Brönnimann, 1955; Papp, 1955a, 1955b; Loeblich and Tappan, 1988; Neumann, 1993; Sirel, 1995). *Helicorbitoides* occur in several European locations at the same time so that the origination site is not clear.

8.17.4 Biology

Helicorbitoides was found in association with specimens of *Siderolites* and *Orbitoides* and also with *Orbitoides* and *Nummofallotia*. This indicates both a high energetic environment with hard substrate (*Siderolites*) and a low energetic environment with soft substrate (*Nummofallotia*).

8.17.5 Biogeographic Distribution and Faunal Province

In the Late Cretaceous *Helicorbitoides* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records): France (31): van Gorsel, 1973b Turkey (38): Sirel, 1995

Sweden (40): van Gorsel, 1973b; Loeblich and Tappan, 1988; Sirel, 1995; Bignot and Neumann, 1997

Switzerland (58): Wannier, 1983; Loeblich and Tappan, 1988

Austria (59): Papp and Küpper, 1953b; Papp, 1954; Brönnimann, 1955; Papp, 1955a; Papp,

1955b; Loeblich and Tappan, 1988; Neumann, 1993; Sirel, 1995

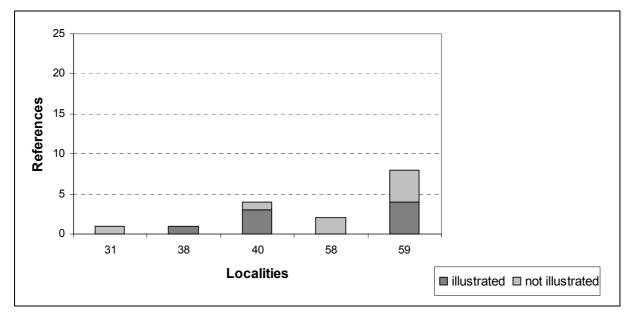


Figure 8.67: Number of illustrated and not illustrated references in the localities of Helicorbitoides

For reasons of clarity the locations Switzerland (58) and Austria (59) are plotted together in location 82 in figure 8.68.

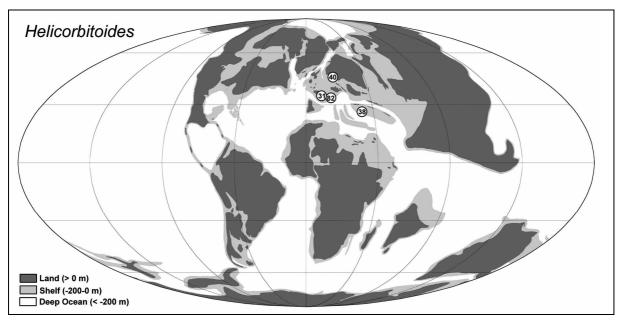


Figure 8.68: Global distribution of Helicorbitoides in the Late Cretaceous

In the Late Cretaceous *Helicorbitoides* only occurs with a superregional distribution in the European Tethys. In the western part it is mentioned from Sweden (40), France (31), Switzerland (58), and Austria (59). Further records in the eastern part of the Tethys include Turkey (38).

8.17.6 Remarks

The phylogenetic relations of *Helicorbitoides* are discussed in detail by MacGillavry (1963) and van Gorsel (1973b).

Bignot and Neumann (1997) report *Helicorbitoides longispina* (Papp and Küpper, 1953) from Stafersvad, Sweden, but it seems to be a misquotation and that it should be *Helicorbitoides longispiralis* (Papp and Küpper, 1953).

8.18 *Hellenocyclina*

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ORBITOIDACEA Schwager, 1876 Family LEPIDORBITOIDIDAE Vaughan, 1933 Subfamily LEPIDORBITOIDINAE Vaughan, 1933 Genus HELLENOCYCLINA Reichel, 1949

8.18.1 Description

Reichel defined the genus *Hellenocyclina* in the year 1949 based on material from Greece. The perforate test of *Hellenocyclina* is lenticular with an irregular lobate outline. The diameter lies between 0.5 and 0.15 mm (Dupeuble et al., 1972). In horizontal section the bilocular embryo is visible. The nepionic stage consists of two spirals that depend on two apertures in the chambers. The following equatorial chambers are arched. In axial section the test is divided by an equatorial layer, but no lateral chambers are visible.

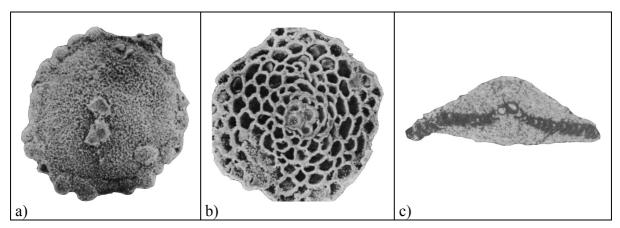


Figure 8.69: a) - c) H. beotica Reichel; a), b) Dupeuble et al., 1972, c) Loeblich and Tappan, 1988

8.18.2 Species

Type species:Hellenocyclina beotica Reichel, 1949+Synonyms:Hellenocyclina Reichel, 1949+Species:H. beotica Reichel, 1949+

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
MAR (15)			Х	Х	
FRA (31)			Х	X	
ESP (32)				X	
GRC (36)				X	
YUG (37)				X	
TUR (38)				X	
IRN (56)				X	
NLD (57)				X	
CHE (58)				X	
Tethys		X	Х		

8.18.3 Age

Figure 8.70: Stratigraphic range of the genus Hellenocyclina in its reported localities

The first occurrence of *Hellenocyclina* is in the Santonian, where it is reported from the Tethyan region (Caus and Hottinger, 1986). In the Campanian it appears in France (31; Loeblich and Tappan, 1988) and probably also in Morocco (15) and in western and southern Europe (Fleury et al., 1985). In the Maastrichtian it is widely distributed between Morocco (15; Fleury et al., 1985), the Netherlands (57; Dupeuble et al., 1972; Fleury et al., 1985; Loeblich and Tappan, 1988) and Iran (56; Fleury et al., 1985). *Hellenocyclina* seem to be originated in the western side of the Tethys in the area between Morocco and France.

8.18.4 Biology

Hellenocyclina often occurs in association with *Orbitoides, Lepidorbitoides, Omphalocyclus, Siderolites*, and *Sirtina*. While Hohenegger (1999) describes the habitat of *Hellenocyclina* as a deeper environment, Hottinger (1997) divides the preferred habitat into two niches. The first is in the upper photic zone at depths of 40 to 80 m, where *Hellenocyclina* is associated with *Omphalocyclus, Orbitoides*, and *Lepidorbitoides*. The second niche is in the lower photic zone at depths of 80 to 140 m where it is associated with the larger foraminifera *Sirtina* and *Lepidorbitoides*.

8.18.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Hellenocyclina* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records): **Morocco (15):** Fleury et al., 1985

France (31): Dupeuble et al., 1972; Fleury et al., 1985; Loeblich and Tappan, 1988

Spain (32): Azéma et al., 1979; Fleury et al., 1985

Greece (36): Loeblich and Tappan, 1988; Mavrikas et al., 1994

Yugoslavia (37): Fleury et al., 1985

Turkey (38): Sirel, 1991; Inan, 1996a; Sirel, 1996; Meric et al., 1997; Özcan and Özkan-Altiner, 1997; Özcan and Özkan-Altiner, 1999b; Özkan-Altiner and Özcan, 1999

Iran (56): Fleury et al., 1985

Netherlands (57): Dupeuble et al., 1972; Fleury et al., 1985; Loeblich and Tappan, 1988

Switzerland (58): Fleury et al., 1985

Tethys: Caus and Hottinger, 1986

Western and Southern Europe: Fleury et al., 1985

Europe: Hanzawa, 1962

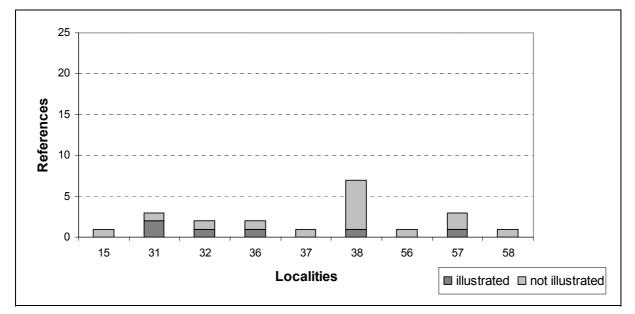


Figure 8.71: Number of illustrated and not illustrated references in the localities of Hellenocyclina

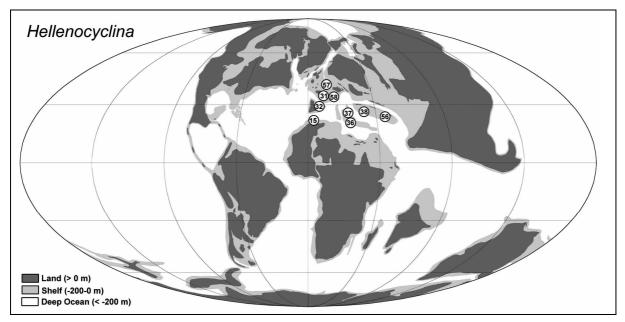


Figure 8.72: Global distribution of Hellenocyclina in the Late Cretaceous

Hellenocyclina shows a superregional distribution in the European Tethys and it is also reported from Morocco (15) in the African Tethys. The occurrence in the European Tethys is both in the western and the eastern region. The western region comprises the Netherlands (57), France (31), Spain (32), and Switzerland (58), the eastern region Yugoslavia (37), Greece (36), Turkey (38) and Iran (56). As the stratigraphically first occurrences are from the Campanian of France and Morocco it is possible that the center of origin lies in this part of the Tethys with a subsequent distribution to the east.

8.18.6 Remarks

8.19 *Lepidorbitoides*

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ORBITOIDACEA Schwager, 1876 Family LEPIDORBITOIDIDAE Vaughan, 1933 Subfamily LEPIDORBITOIDINAE Vaughan, 1933 Genus LEPIDORBITOIDES Silvestri, 1907

8.19.1 Description

Silvestri established the generic name of *Lepidorbitoides* in the year 1907. The type species *Orbitoides socialis* however was collected by Leymerie (1851) based on Maastrichtian material of SW France. The test of *Lepidorbitoides* is flattened lenticular with a diameter of up to 10 mm (rarely up to 25 mm, Loeblich and Tappan, 1988). An equatorial layer divides the test. The embryo is bilocular, with a nearly circular proloculus and a reniform deuteroconch. Numerous small pustules cover the exterior of the test.

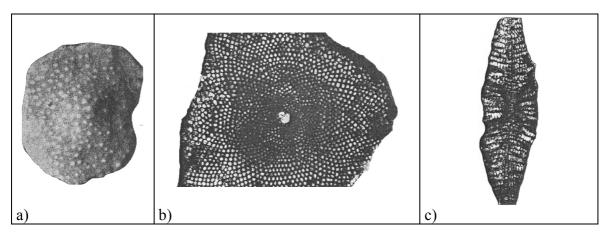


Figure 8.73: a) - c) L. minor (Schlumberger); a) - c) Abdelghany, 2003

8.19.2 Species

Type species:	Orbitoides socialis Leymerie, 1851 ⁺
Synonyms:	Lepidorbitoides Silvestri, 1907
	Orbitoides socialis Leymerie, 1851 ⁺
Species:	L. bisambergensis (Jaeger, 1914) ⁺
	L. blanfordi Rao ⁺
	<i>L. campaniensis</i> van Gorsel, 1973 ⁺

- *L. floridensis* Cole⁺
- L. gangdisicus Liu⁺
- L. inornata Rao^+
- L. macgillavryi Thiadens, 1937⁺
- *L. minor* (Schlumberger, 1901)⁺
- L. palmeri Thiadens, 1937⁺
- L. paronai Silvestri⁺
- L. pembergeri (Papp, 1954)⁺
- L. planasi Rutten, 1935⁺
- L. rutteni Thiadens, 1937⁺
- L. schenki Brönnimann⁺
- L. socialis (Leymerie, 1851)⁺
- L. zhongbaensis Liu⁺

8.19.3	Age
0.1/10	1150

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)				Х	
F-USA (2)	?	?	?	?	
VEN (10)				Х	?
COL (11)				Х	
DWI (13)					?
LBY (18)				Х	
OMN (23)			Х	Х	
QAT (24)			?	?	
YEM (25)				Х	
SOM (26)			?	?	
SYR (28)			?	?	
MDG (29)				Х	
FRA (31)			Х	Х	
ESP (32)			Х	Х	
GER (33)			Х	Х	
ITA (35)			Х	Х	
GRC (36)			Х	Х	
YUG (37)	?	?	?	?	
TUR (38)			Х	Х	
ROM (41)				Х	
RUS (42)				Х	
S-IND (44)		1		X	
PAK (46)		1	Х	X	
IDN (47)		1		X	
T-CHN (48)			?	?	

KIR (49)		Х	
NRU (50)		Х	
IRN (56)		Х	
NLD (57)		Х	?
CHE (58)	X	Х	
AUT (59)	X	Х	
MKD (60)		Х	
SVN (63)		Х	
MYS (64)	X	Х	
PHL (65)		Х	?
H-USA (67)	X	Х	
ZYP (69)		Х	
CZE/SVK (71)		Х	
Sa-ITA (72)		Х	

Figure 8.74: Stratigraphic range of the genus Lepidorbitoides in its reported localities

The first occurrence of *Lepidorbitoides* is of Campanian age. It is widely distributed in Africa, Europe, Asia and the Caribbean. In the Maastrichtian the genus densely covers the tropical and subtropical regions of the shallow water. There are also some Paleogene records from Venezuela (10; Caudri, 1944, 1948), Dutch West Indies (13; Caudri, 1944, 1948), the Netherlands (57; Hofker, 1966) and the Philippines (65; Hashimoto et al., 1978a). In the Campanian *Lepidorbitoides* is reported from many locations in African, European, Caribbean and Asian, which complicates the identification of an origination center. Drooger (1993) recommend the origination of *Lepidorbitoides* to the subprovinces of the North Sea basin and of the Pyrenean and Alpine basins.

Lepidorbitoides is also reported from Florida (2; Brönnimann, 1958b) and Tibet (48; Zhang et al., 2002) with an unprecise Late Cretaceous age. Further records are from Qatar (24), Somalia (26), Syria (28), and Yugoslavia (37) (Fleury et al., 1990), but there is no stratigraphic age given.

8.19.4 Biology

In most locations *Lepidorbitoides* is associated with individuals of the genera *Orbitoides*, *Omphalocyclus*, and *Siderolites*. *Sulcoperculina* and *Vaughanina* are additionally associated genera in Caribbean areas.

The paleoenvironmental situation of *Lepidorbitoides* seems to be species specific. The depth ranges between 40-80 m in the upper photic zone and 80-140 m in the lower photic zone (Hottinger, 1997). Visser (1951) interpreted *L. minor* to have lived in water depth of 1-40

fathoms (= 1-73 m). Hohenegger (1999) speaks of an occurrence in deeper environments, while *Lepidorbitoides* lived, according to Drooger (1984) somewhat deeper than *Orbitoides*. According to Dilley (1971) *Lepidorbitoides* mainly occurs between subtropical and tropical latitudes. It is often associated with corals and calcareous algae (Lithothamnium). This suggests that the average minimum temperature of *Lepidorbitoides* was above 18° C (Langer and Hottinger, 2000). Caus (1988) places some species of this genus on the open marine shelf.

8.19.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Lepidorbitoides* is reported from the following locations (*Senonian/Late Cretaceous records, illustrated records, not illustrated records):

Cuba (1): Caudri, 1944; Brönnimann, 1954; Seiglie and Ayala-Castanares, 1963

- Florida (2): *Brönnimann, 1958b
- Venezuela (10): <u>Renz</u>, 1955
- Colombia (11): <u>Caudri, 1948</u>
- Libya (18): Fleury et al., 1985
- Bahamas (21): *Kureshy, 1980
- Oman (23): Abdelghany, 2003
- Qatar (24): Fleury et al., 1990
- Yemen (25): Fleury et al., 1985; Sartorio and Venturini, 1988; Fleury et al., 1990
- **Somalia (26):** Fleury et al., 1990
- Syria (28): Fleury et al., 1990
- Madagascar (29): *Visser, 1951; Fleury et al., 1985
- France (31): Renz, 1936; Papp, 1954; Papp, 1955a; Hanzawa, 1962; Neumann, 1972; van Gorsel, 1973a; Wannier, 1983; Verhallen et al., 1984; Caus et al., 1988; Loeblich and Tappan, 1988; Neumann, 1993; Caus et al., 1996; Aguilar et al., 2002
- Spain (32): Renz, 1936; *Visser, 1951; <u>Neumann, 1972; Azéma et al., 1979</u>; Wannier, 1983; Caus, 1988; Caus et al., 1988; Neumann, 1993
- Germany (33): Hagn, 1971; Neumann, 1972; Fleury et al., 1985
- Italy (35): Renz, 1936; Loeblich and Tappan, 1988
- Greece (36): Arni, 1933; Renz, 1936; Butterlin, 1967; Fleury, 1977; Zambetakis-Lekkas, 1988; Fleury et al., 1990; Mavrikas et al., 1994
- Yugoslavia (37): Fleury et al., 1990

- Turkey (38): Loeblich and Tappan, 1988; Fleury et al., 1990; Meric and Coruh, 1991; Sirel, 1991; <u>Özcan, 1993</u>; Meric et al., 1997; <u>Özcan and Özkan-Altiner, 1997</u>; <u>Özcan and Özkan-Altiner, 1999a</u>; <u>Özcan and Özkan-Altiner, 1999b</u>; Özkan-Altiner and Özcan, 1999
- Romania (41): Bratu, 1975; Ion, 1975
- S-Russia (42): Fleury et al., 1985
- S-India (44): *Visser, 1951; Nagappa, 1959; Gowda, 1964; Fleury et al., 1985
- India: Renz, 1936
- Pakistan (46): McGowran, 1968; Kureshy, 1977; Kureshy, 1980; Fleury et al., 1985
- Indonesia (47): Fleury et al., 1985; Pringgoprawiro et al., 1998
- **Tibet (48):** *Zhang et al., 2002
- Line Islands (49): Premoli Silva and Brusa, 1981
- Nauru (50): Premoli Silva and Brusa, 1981; Schlanger and Premoli Silva, 1981; Butterlin, 1992
- Iran (56): Loeblich and Tappan, 1988
- Netherlands (57): <u>Visser, 1951; Papp, 1954; Papp, 1955a;</u> Hofker, 1966; <u>Neumann, 1972;</u> Wannier, 1983; Caus et al., 1988; Caus et al., 1996; <u>Ferràndez-Canadell, 2000; Aguilar et al., 2002</u>
- Switzerland (58): Renz, 1936; Loeblich and Tappan, 1988
- Austria (59): <u>Papp and Küpper, 1953a</u>; <u>Papp, 1954</u>; <u>Papp, 1955a</u>; Papp, 1955b; <u>Papp, 1955c</u>; <u>Papp, 1956</u>; Loeblich and Tappan, 1988; Neumann, 1993; Caus et al., 1996; <u>Aguilar et al., 2002</u>
- Macedonia (60): Butterlin, 1967
- Slovenia (63): <u>Bignot</u>, 1972
- Malaysia (64): McGowran, 1968
- Philippines (65): *Hashimoto et al., 1978a; Hashimoto and Matsumaru, 1981; Hashimoto and Matsumaru, 1984; Fleury et al., 1985
- Hawaii (67): Butterlin, 1992
- Cyprus (69): Renz, 1936
- Czechoslovakia (71): Neumann, 1993
- Sardinia (72): Busulini et al., 1984
- Former Yugoslavia (74): Fleury et al., 1990

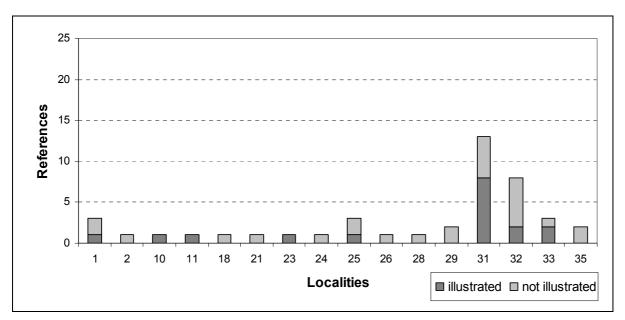


Figure 8.75a: Number of illustrated and not illustrated references in the localities of Lepidorbitoides

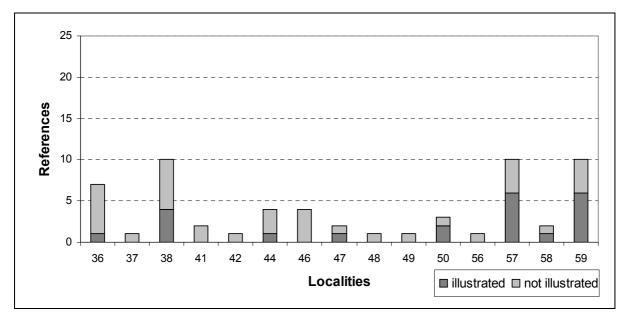


Figure 8.75b: Number of illustrated and not illustrated references in the localities of Lepidorbitoides

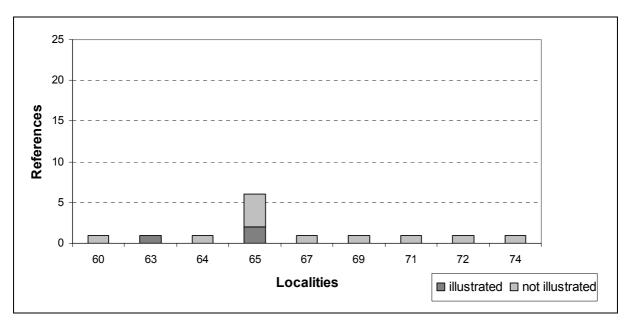


Figure 8.75c: Number of illustrated and not illustrated references in the localities of Lepidorbitoides

For reasons of clarity the following locations were plotted together in figure 8.76: Germany (33), Switzerland (58), and Austria (59) as locality 82, Greece (36) and Macedonia (60) as locality 83, Yugoslavia (37), Slovenia (63), and formerly Yugoslavia (74) as locality 84.

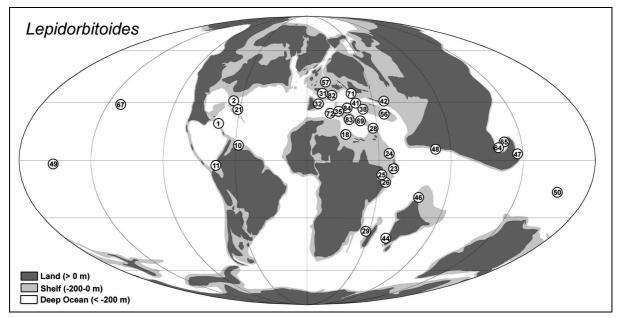


Figure 8.76: Global distribution of Lepidorbitoides in the Late Cretaceous

Lepidorbitoides shows a global distribution pattern. It is documented in all faunal provinces, but the European area seems to be the most densely populated region.

8.19.6 Remarks

There is currently some debate whether *Orbitocyclina* is indeed a separate genus or if it is synonymous with the genus *Lepidorbitoides*, which is strongly supported by Aguilar et al. (2002). The biogeographic distribution given above is therefore only of preliminary nature. If this genus belongs to *Lepidorbitoides* it would have the same global distribution pattern as outlined for *Lepidorbitoides*.

Lepidorbitoides minima Douvillé, 1927 is the type species of Orbitocyclina Vaughan, 1929.

8.20 Sulcoperculina

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ORBITOIDACEA Schwager, 1876 Family LEPIDORBITOIDIDAE Vaughan, 1933 Subfamily LEPIDORBITOIDINAE Vaughan, 1933 Genus SULCOPERCULINA Thalmann, 1938

8.20.1 Description

Thalmann established in 1938 the new subgenus *Sulcoperculina* with the subgenustype *?Camerina dickersoni* Palmer. The new subgenus belongs to the genus *Operculina* d'Orbigny. The material on which the systematic designation is based stems from the Maastrichtian of Cuba. In 1949, de Cizancourt concidered *Sulcoperculina* as a separate genus and not only a subgenus. The chambers of *Sulcoperculina* are trochospirally arranged, consisting of about three whorls. The last whorl is made up of around 18 to 20 chambers. The diameter of the test is between 0.6 mm (Hottinger, 1966) and 2 mm (Loeblich and Tappan, 1988), the thickness varies between 0.4 mm (Loeblich and Tappan, 1988) and 0.8 mm (Butterlin, 1981). In equatorial section a distinct spiral of the chambers is visible while the septa are nearly perpendicular to the wall. Intraseptal canals are present. In axial view a distinct sulcus is present at the peripheral margin. The test surface is ornamented with an umbilical knob and with thick pustules. The wall is calcareous.

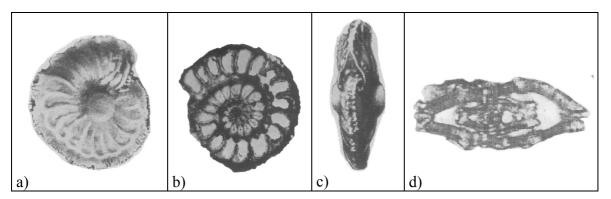


Figure 8.77: a) - d) S. dickersoni (Palmer); a), c) Palmer, 1934, b) Cole, 1947, d) Butterlin, 1981

8.20.2 Species

Type species: ?Camerina dickersoni Palmer, 1934; p. 243; pl. 14, figs. 1, 2, 4, 6, 8

Synonyms: *Operculina (Sulcoperculina)* Thalmann, 1939; p. 330 *Sulcoperculina* de Cizancourt, 1949 (nom. transl.); p. 671

Species: S. angulata Brown and Brönnimann, 1957; p. 29; text-figs. 2, 3

S. cubensis (Palmer, 1934) (?Camerina cubensis Palmer, 1934; p. 245; pl. 14, figs. 3, 5, 7)

S. diazi Seiglie and Ayala-Castanares, 1963; p. 30; pls. 6, figs. 1-4; pl. 7, figs. 1-3

S. dickersoni (Palmer, 1934) (*?Camerina dickersoni* Palmer, 1934; p. 243; pl. 14, figs. 1, 2, 4, 6, 8)

- S. globosa de Cizancourt, 1949; p. 670; pl. 23, figs. 6, 7
- ?S. minima Seiglie and Ayala-Castanares, 1963; p. 31; pl. 8, figs. 1-4
- S. obesa de Cizancourt, 1949; p. 670; pl. 23, figs. 11, 14

S. vermunti (Thiadens, 1937) [*Camerina vermunti* Thiadens, 1937; p. 94; text-figs. 3(A, E); pl. 16, figs. 1, 11, 12]



	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)	Х	X	Х	Х	
F-USA (2)	X			X	
S-MEX (3)			Х	Х	
T-USA (5)			X		
JAM (6)			X	X	
HTI (7)	Х	X	X	X	
GTM (9)	?	?	?	?	
VEN (10)			Х	X	
COL (11)				X	
PR-USA (12)			Х	X	
DWI (13)			X	X	
KIR (49)				X	
NRU (50)			Х,	X	
NE-MEX (52)			Х	Х	
H-USA (67)			Х	Х	
MEXu (68)			X	X	

Figure 8.78: Stratigraphic range of the genus Sulcoperculina in its reported localities

The first records of *Sulcoperculina* are from the Turonian of Cuba and Haiti (Brönnimann, 1957) and from the Early Cretaceous of Florida (Brönnimann, 1954). Records of Santonian age exist from Cuba (1; Brönnimann, 1957) and Haiti (7; Brönnimann, 1957). In the Campanian and in the Maastrichtian *Sulcoperculina* is reported from the Caribbean realm between Florida, Texas, Mexico, Cuba, Colombia and Venezuela, as well as from Asia (Pakistan). There are no records of *Sulcoperculina* from the Paleogene or later. The fossil record hints to an origination center around Cuba and Haiti.

8.20.4 Biology

In the Caribbean region *Vaughanina*, *Orbitoides*, *Lepidorbitoides* and *Pseudorbitoides* are usually the accompanying foraminifera. Hottinger (1983) interprets the habitat of *Sulcoperculina* as an environment exposed to high water energy, where the foraminifera lived on hard substrate. Also the lithology in which *Sulcoperculina* is present supports this interpretation as it is often a heterogenous silty limestone with some terrestrial components.

8.20.5 Biogeographic distribution and Faunal Province

In the time span from the Santonian to the Maastrichtian *Sulcoperculina* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Cuba (1): <u>Palmer, 1934</u>; Caudri, 1944; Brönnimann, 1954; *Brönnimann, 1955; Brönnimann, 1957; <u>Hanzawa, 1962</u>; <u>Seiglie and Ayala-Castanares, 1963</u>; *<u>Hottinger, 1966</u>; <u>Loeblich and Tappan, 1988</u>

Florida (2): Brönnimann, 1957; *Brönnimann, 1958b

S-Mexico (3): Ayala-Castanares, 1963; <u>Butterlin, 1967</u>; Pécheux, 1984; <u>Rosales Dominguez</u> <u>et al., 1994</u>

Texas (5): Brönnimann, 1957

Jamaica (6): *Brönnimann, 1955; Krijnen, 1972; Loeblich and Tappan, 1988

Haiti (7): Brönnimann, 1957; Butterlin, 1967; Loeblich and Tappan, 1988

Venezuela (10): Renz, 1955; Loeblich and Tappan, 1988

Colombia (11): Caudri, 1948

Puerto Rico (12): Brönnimann, 1957; Pessagno, 1962

Dutch Westindies (13): Krijnen, 1967

Line Islands (49): Premoli Silva and Brusa, 1981; Schlanger and Premoli Silva, 1981

Nauru (50): Premoli Silva and Brusa, 1981; Butterlin, 1992 NE-Mexico (52): Butterlin, 1967; Caus et al., 2002 Hawaii (67): Butterlin, 1992 Mexico (68): Caudri, 1944; Butterlin, 1981; Loeblich and Tappan, 1988 Central America: Dilley, 1973

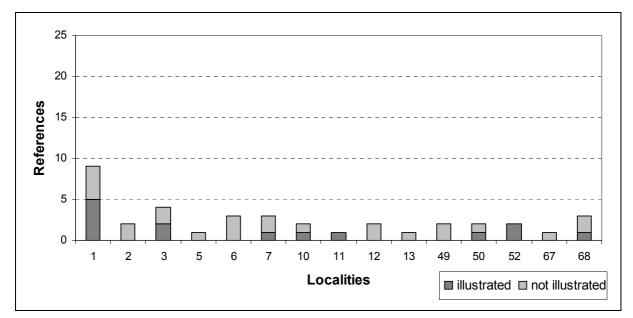


Figure 8.79: Number of illustrated and not illustrated references in the localities of Sulcoperculina

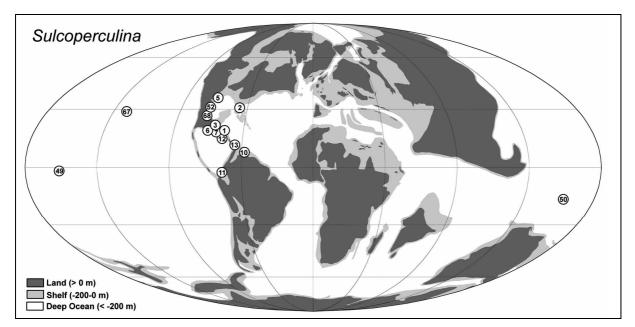


Figure 8.80: Global distribution of Sulcoperculina in the Late Cretaceous

The Caribbean realm is densely covered with locations where *Sulcoperculina* occurs. The distribution ranges from Texas (5; Brönnimann, 1957) in the north to Columbia (11; Caudri,

1948) in the south. Further locations belonging to the Caribbean region are Nauru (50; Premoli Silva and Brusa, 1981; Butterlin, 1992), the Line Islands (49; Premoli Silva and Brusa, 1981; Schlanger and Premoli Silva, 1981) and Hawaii (67; Butterlin, 1992). Besides all records from the Caribbean, *Sulcoperculina* was also reported from Spain (32; Hottinger, 1966; Azéma et al., 1979), Greece (36; Butterlin, 1967; Loeblich and Tappan, 1988; Mavrikas et al., 1994), Macedonia (60; Butterlin, 1981) and Turkey (38; Meric and Coruh, 1991), Egypt (20; Ismail and Boukhary, 2001), Oman (23; Abdelghany, 2003), and Pakistan (46; Kureshy, 1977, 1980). All European and North African records however, appear to be false identifications. *Sulcoperculina* is therefore considered to be endemic to the Caribbean and Eastern Pacific region.

8.20.6 Remarks

Unfortunately the records from the Line Islands and Hawaii cannot be verified by illustrations, but as discussed in chapter 6.2 "Paleoceanography" those localities were closer to the Caribbean in the Late Cretaceous with connecting shallow "stepping stones" (Premoli Silva and Brusa, 1981), so that a distribution may be possible. This genus is often interpreted to be restricted to the Caribbean Province (Premoli Silva and Brusa, 1981) and all other records from Spain (32), Greece (36), Macedonia (60), Turkey (38), Egypt (20), Oman (23), and Pakistan (46) are disregarded here. The specimen from Oman (23), which is reported by Abdelghany (2003), is illustrated but does not show the significant peripheral sulcus. The specimens from Greece (36) and Macedonia (60) that were reported and illustrated by Butterlin (1967) do not belong to *Sulcoperculina*.

8.21 *Pseudorbitoides*

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ROTALIACEA Ehrenberg, 1839 Family PSEUDORBITOIDIDAE Rutten, 1935 Subfamily PSEUDORBITOIDINAE Rutten, 1935 Genus PSEUDORBITOIDES Douvillé, 1922

8.21.1 Description

In 1922, Douvillé erected the genus *Pseudorbitoides*, with the type species *Pseudorbitoides trechmanni* from Jamaica. The perforate test of *Pseudorbitoides* is lenticular with a circular outline. The size of the test is species-specific and ranges between 0.4 and 2.7 mm, while the thickness is between 0.1 and 1.7 mm (Krijnen, 1967). The microspheric juvenarium is uniserial, while the megalospheric one is uniserial to quadriserial. A single equatorial layer divides the test. To the periphery the equatorial chamber are crossed by radial beams, which dominate towards the margin. The lateral chambers, which are arranged in regular tiers, must not cover the whole equatorial chambers so that a peripheral flange is visible. The outside of the test is covered with numerous pustules.

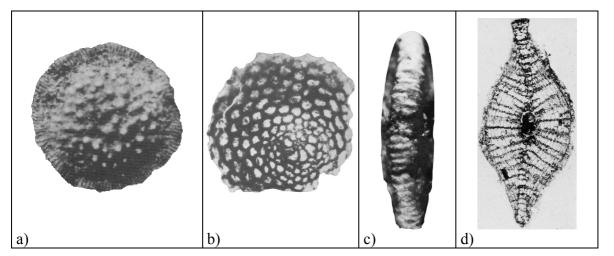


Figure 8.81: a), b) *P. trechmanni* Douvillé, c), d) *P. trechmanni pectinata* Krijnen; a), b) Loeblich and Tappan, 1988, c), d) Krijnen, 1972

8.21.2 Species

Type species: Pseudorbitoides trechmanni Douvillé, 1922⁺

Synonyms: *Pseudorbitoides* Douvillé, 1922⁺

Species:

s: *P. chubbi* Brönnimann, 1958b; p. 424; pl. 1, figs. 1-3

P. curacaoensis Krijnen, 1967; p. 148; pl. 1, figs. 1-3; pl. 2, figs. 1-6; pl. 3,

figs. 1-4; pl. 5, fig. 1

P. israelskyi Vaughan and Cole, 1932⁺

P. rutteni Brönnimann, 1955; p. 68; pl. 11, figs. 1-7; pl. 12, figs. 1-11

P. trechmanni Douvillé, 1922⁺



	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)			X	Х	
F-USA (2)		?	?	?	
S-MEX (3)			Х	Х	
L-USA (4)			Х	Х	
M-USA (4)			Х		
T-USA (5)			Х	Х	
JAM (6)			Х	Х	
HTI (7)			Х	Х	
HND (8)			Х		
GTM (9)			Х	Х	
VEN (10)			Х	Х	
PR-USA (12)			Х	Х	
DWI (13)			Х	Х	
KIR (49)			Х	Х	
NRU (50)			Х	Х	
H-USA (67)			Х	Х	
MEXu (68)			Х	Х	

Figure 8.82: Stratigraphic range of the genus Pseudorbitodes in its reported localities

Pseudorbitoides is restricted to the Late Cretaceous (Campanian to Maastrichtian). In both time slices it is reported from numerous Caribbean locations. From the European area it is reported from the Campanian of Austria (59). There are also some Asian records, from Tibet (48), Papua New Guinea (51), and the Philippines (65). From Papua New Guinea a Campanian age is given, whereas the age of the record of Tibet is not given. From the Philippines the age is given with Late Cretaceous to Paleocene. All European and Asian records are highly questionable. The genus is therefore restricted to the Caribbean. To date the origination center cannot be identified.

8.21.4 Biology

In most locations *Pseudorbitoides* is associated with *Lepidorbitoides*, *Orbitoides*, *Sulcoperculina*, and *Vaughanina*. Dilley (1971) considers the habitat of *Pseudorbitoides* to be a warm shallow-water environment within tropical and subtropical latitudes. This is suggested by the presence of corals and nullipore type calcareous algae.

8.21.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Pseudorbitoides* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Cuba (1): Caudri, 1944; Brönnimann, 1954; *<u>Brönnimann, 1955; Seiglie and Ayala-</u> <u>Castanares, 1963;</u> Loeblich and Tappan, 1988

Florida (2): *Brönnimann, 1954

Chiapas (3): Ayala-Castanares, 1963; Pécheux, 1984; Rosales Dominguez et al., 1994

Louisiana (4): Seiglie and Ayala-Castanares, 1963; Loeblich and Tappan, 1988

Mississippi (4): *Vaughan and Cole, 1943; Brönnimann, 1957

Texas (5): *Frizzell, 1954; Brönnimann, 1958b; Loeblich and Tappan, 1988

- Jamaica (6): *Vaughan and Cole, 1943; *Brönnimann, 1955; Krijnen, 1972; *Loeblich and Tappan, 1988
- Haiti (7): Brönnimann, 1955; Seiglie and Ayala-Castanares, 1963; Butterlin, 1967; Loeblich and Tappan, 1988
- Honduras (8): Seiglie and Ayala-Castanares, 1963

Guatemala (9): Brönnimann, 1955

Venezuela (10): Brönnimann, 1955; Renz, 1955; Seiglie and Ayala-Castanares, 1963

Puerto Rico (12): Pessagno, 1962; Seiglie and Ayala-Castanares, 1963

Dutch West Indies (13): Brönnimann, 1955; Krijnen, 1967; Krijnen, 1972

- Kiribati (49): Premoli Silva and Brusa, 1981; Schlanger and Premoli Silva, 1981; <u>Butterlin</u>, <u>1992</u>
- Nauru (50): Premoli Silva and Brusa, 1981; Schlanger and Premoli Silva, 1981; Butterlin, 1992
- Hawaii (67): Butterlin, 1992
- Mexico undifferentiated (68): Brönnimann, 1955; Brönnimann, 1957; Butterlin, 1981

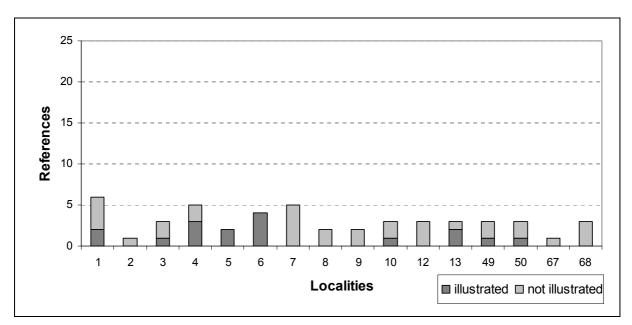


Figure 8.83: Number of illustrated and not illustrated references in the localities of *Pseudorbitoides*

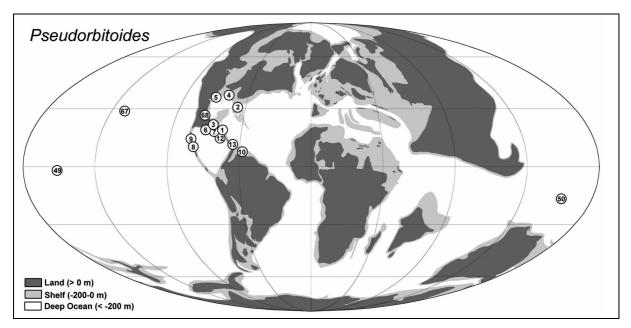


Figure 8.84: Global distribution of Pseudorbitoides in the Late Cretaceous

The main distribution of *Pseudorbitoides* is in the Caribbean region (Vaughan, 1933; van Gorsel, 1973). There it occurs from the southern part of North America (Louisiana, Mississippi, Texas, Florida) to the north of South America (Venezuela, Dutch West Indies). Further records from the Caribbean Faunal Province are from Hawaii (67), Line Islands (49), and Nauru (50). There are also specimens reported from European (Austria) and Asian (Tibet, Papua New Guinea, Philippines) regions. These occurrences, however, require a critical review and are therefore excluded. The records from Tibet (48; Butterlin, 1992) and Papua New Guinea (51; Seiglie and Ayala-Castanares, 1963; McGowran, 1968; Butterlin, 1992)

cannot be verified by illustrations and are also doubtful. The same is true for records from Austria (59; Papp, 1954, 1955b) and the Philippines (65; Hashimoto et al., 1978a). The biogeographic distribution of *Pseudorbitoides* is therefore restricted to the Caribbean and Eastern Pacific.

8.21.6 Remarks

Pseudorbitoides longispiralis is the type species of *Helicorbitoides* Macgillavry (Loeblich and Tappan, 1988). Therefore the records of this species (Papp and Küpper, 1953b; Papp, 1954; Brönnimann, 1955; Papp, 1955a, 1955b) must be disregarded.

The specimens of *Pseudorbitoides chubbi* (Brönnimann, 1958b; pl. 1, figs. 1-3) from the Campanian of Texas do not belong to the genus *Pseudorbitoides*.

The illustrated specimens of *Pseudorbitoides chubbi* (Butterlin, 1981; pl. 33, figs. 5, 6) and *Pseudorbitoides curacaoensis* (Butterlin, 1981; pl. 33, figs. 7-9) do not belong to the genus *Pseudorbitoides*.

Pseudorbitoides israelskyi (Pécheux, 1984; pl. 7, figs. 21, 22) and *Pseudorbitoides israelskyi* morphotype *kozaryi* (Pécheux, 1984; pl. 7, figs. 31-33) from the Campanian of Mexico are too different to belong to the genus *Pseudorbitoides*.

8.22 Vaughanina

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ROTALIACEA Ehrenberg, 1839 Family PSEUDORBITOIDIDAE Rutten, 1935 Subfamily VAUGHANININAE MacGillavry, 1963 Genus VAUGHANINA Palmer, 1934

8.22.1 Description

Palmer (1934) established the genus *Vaughanina* based on material from the Late Cretaceous of Cuba. The test of *Vaughanina* is lenticular, with a circular outline. The dimensions depend on the species and on the ontogenetic stages. The diameter ranges from 0.5 mm to 2.0 mm and the thickness from 0.4 mm to 1.5 mm. From the outside the test seems to consist of two parts: a central convex part with prominent pustules, and an outer thin flange, which is crossed by radiating plates. In the singular equatorial layer the bilocular juvenarium is followed by a spiral of 5 to 27 uniserial chambers. Affiliated are annular chambers, which are crossed by radial plates. The equatorial layer thickens to the periphery. It is covered on both sides with lateral chambers, with exception of the outmost part, the peripheral flange. In the central part there are 6 to 8 layers of lateral chambers. The lateral chambers are crossed by several pillars, which produce the pustules on the outside.

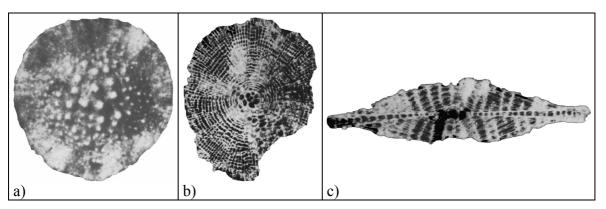


Figure 8.85: a) - c) V. cubensis Palmer; a), b) Vaughan and Cole, 1943, c) Palmer, 1934

8.22.2 **Species**

Type species: Vaughanina cubensis Palmer, 1934; p. 241; pl. 12, fig. 5; pl. 13, figs. 2, 4 Synonyms: Vaughanina Palmer, 1934; p. 240 Species: V. barkeri Brönnimann, 1954; p. 103; pl. 18, figs. 1, 2; txt-fig. 10 V. cubensis Palmer, 1934; p. 241; pl. 12, fig. 5; pl. 13, figs. 2, 4 V. guatemalensis Brönnimann, 1958b; p. 434; pl. 1, fig. 8; txt-figs. 1, 8, 9 V. jordanae Brönnimann, 1958b; p. 429; pl. 1, figs. 4-7; txt-figs. 1, 5-7

Age

8.22.3

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)			X	Х	X
F-USA (2)	Х		Х	Х	
S-MEX (3)			Х	Х	
GTM (9)			Х	Х	
VEN (10)			Х	Х	
PR-USA (12)			Х	Х	
DWI (13)					Х
V-MEX (14)			Х	Х	
KIR (49)				Х	
NRU (50)			Х	Х	
NE-MEX (52)			Х		
H-USA (67)				Х	

Figure 8.86: Stratigraphic range of the genus Vaughanina in its reported localities

The first occurrence of Vaughanina is from the Early Cretaceous of Florida (2; Brönnimann, 1954) but the record lacks an illustration. The main stratigraphic range of Vaughanina is from the Campanian to the Maastrichtian, where it can be found in the entire Caribbean region. Brönnimann (1954) and Ellis and Messina (1967) also found Vaughanina cubensis in the Paleocene of Cuba (1). Further Paleocene records of Vaughanina cubensis are from Bonaire, D.W.I. (13; Ellis and Messina, 1967). The origination center of Vaughanina seems to be in Florida from where it dispersed to the whole Caribbean region.

8.22.4 **Biology**

Vaughanina is commonly associated with individuals of the following larger foraminifera: Orbitoides, Sulcoperculina, Lepidorbitoides, Pseudorbitoides, Omphalocyclus, and rarely with *Chubbina*, and *Siderolites*.

The information about the habitat of *Vaughanina* shows a broad spectrum of potential environments. On the one hand a reefal or fore-reefal facies (Brönnimann, 1958a) and organic reefs (Seiglie and Ayala-Castanares, 1963) are mentioned; on the other hand the environment may have been open marine with some terrigenous input (Caus et al., 2002) or with abundant detritic material (Seiglie and Ayala-Castanares, 1963). Seiglie and Ayala-Castanares (1963) conclude that the species of the family Pseudorbitoididae have lived in an environment with moderate water energy.

8.22.5 Biogeographic distribution and Faunal Province

In the uppermost Cretaceous individuals of the genus *Vaughanina* are documented from the following localities (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

- Cuba (1): *Palmer, 1934; *Vaughan and Cole, 1943; Caudri, 1944; Brönnimann, 1954; Brönnimann, 1958a; Ayala-Castanares, 1963; Seiglie and Ayala-Castanares, 1963; *Ellis and Messina, 1967; Krijnen, 1972; Loeblich and Tappan, 1988
- Florida (2): Brönnimann, 1954; Brönnimann, 1957; *Brönnimann, 1958b; Ellis and Messina, 1967; Loeblich and Tappan, 1988
- Chiapas (3): Pécheux, 1984; Rosales Dominguez et al., 1994
- Guatemala (9): *Brönnimann, 1954; <u>Brönnimann, 1958b; Ellis and Messina, 1967</u>; Loeblich and Tappan, 1988
- Venezuela (10): *Brönnimann, 1954; <u>Renz, 1955; Ellis and Messina, 1967;</u> Loeblich and Tappan, 1988
- Puerto Rico (12): Pessagno, 1962
- Dutch West Indies (13): *Brönnimann, 1954; *Ellis and Messina, 1967
- Veracruz (14): *Brönnimann, 1954; Butterlin, 1967; Ellis and Messina, 1967
- Line Islands (49): Premoli Silva and Brusa, 1981
- Nauru (50): Premoli Silva and Brusa, 1981; Schlanger and Premoli Silva, 1981; Butterlin, 1992
- **NE-Mexico (52):** Caus et al., 2002
- Hawaii (67): Butterlin, 1992
- N America, Central America: Dilley, 1973

Mexico: Butterlin, 1981; Loeblich and Tappan, 1988

- Caribbean: Hanzawa, 1962; Butterlin, 1981
- Gulf of Mexico region: Hanzawa, 1962

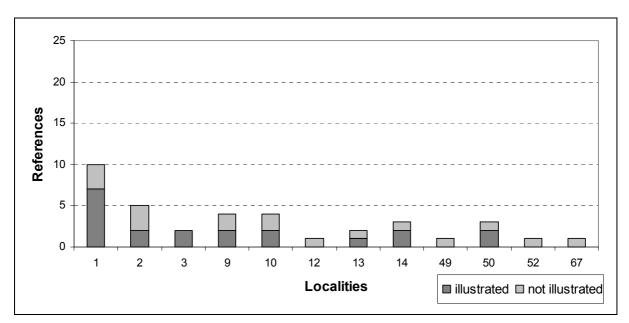


Figure 8.87: Number of illustrated and not illustrated references in the localities of Vaughanina

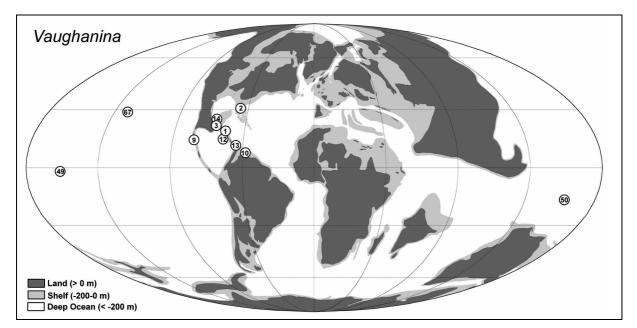


Figure 8.88: Global distribution of Vaughanina in the Late Cretaceous

In the uppermost Cretaceous *Vaughanina* is documented from the Caribbean region. Both, in the Campanian and in the Maastrichtian it occurs in the area between Florida (2), Mexico (3, 52), Guatemala (9), Puerto Rico (12), Cuba (1) and Venezuela (10). In the Pacific Ocean *Vaughanina* is reported from Nauru (50) in the Campanian and Maastrichtian while the records from Line Islands (49) and Hawaii (67) are Maastrichtian in age.

8.22.6 Remarks

The records of *Vaughanina* from Nauru (50; Premoli Silva and Brusa, 1981) are doubtful, because the illustrated foraminifera show no peripheral flange and instead of pustules the individuals show cavities.

8.23 Orbitocyclina

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ROTALIACEA Ehrenberg, 1839 Family PSEUDORBITOIDIDAE Rutten, 1935 Subfamily PSEUDORBITELLINAE Hanzawa, 1962 Genus ORBITOCYCLINA Vaughan, 1929

8.23.1 Description

Orbitocyclina has recently been described to be synonymous with *Lepidorbitoides* (Aguilar et al., 2002). The distributional discussion that follows below considers the status prior to the redescription of Aguilar et al. (2002). Both genera, however, have now been merged into a single genus (see remarks below).

The type species of *Orbitocyclina*, *Lepidorbitoides minima*, was defined by Douvillé in the year 1927 based on material from Mexico. The genus *Orbitocyclina* was officially erected in 1929. The test is lenticular. The dimensions of *Orbitocyclina minima* (Douvillé) are given with a diameter of 1.6-4 mm and a thickness of 0.3-2.4 mm (Hanzawa, 1963). The bilocular embryo is surrounded by a comparatively thick wall and followed by spiral chambers. The test is subdivided by an equatorial layer, in which the arcuated to diamond-shaped chambers are interconnected by stolons. The lateral layers consist of irregular tiers with 5-6 chambers at the center and do not always completely cover the equatorial layer, so that a flangelike periphery arises. In the central part pillars may be present.

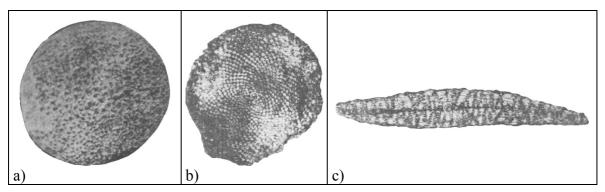


Figure 8.89: a) - c) O. minima (Douvillé); a) Loeblich and Tappan, 1988, b), c) Butterlin, 1981

8.23.2 Species

т ·	1 + 1 + 2 + 1 + 2 + 1 + 1 + 1 + 1 + 1 +
Type species:	<i>Lepidorbitoides minima</i> Douvillé, 1927 ⁺ ; p. 34; pl. 1
Synonyms:	Orbitocyclina Vaughan, 1929 ⁺
	Pseudorbitella Hanzawa, 1962
Species:	Pseudorbitella americana Hanzawa, 1962; p.148; pl. 7, figs. 1-4
	Lepidorbitoides minima Douvillé, 1927 ⁺
	Orbitocyclina minima (Douvillé, 1927) ⁺
	O. ariyalurensis Rao, 1942
	O. americana (Hanzawa, 1962)

8.23.3 Age

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)			X	Х	
F-USA (2)			X	Х	
S-MEX (3)			X	Х	
L-USA (4)			X	Х	
FRA (31)			X		
ESP (32)			X		
S-IND (44)				Х	
NRU (50)				Х	
NE-MEX (52)			X	Х	
AUT (59)			X		
MEXu (68)			X	Х	

Figure 8.90: Stratigraphic range of the genus Orbitocyclina in its reported localities

The first stratigraphic occurrence of *Orbitocyclina* is of Campanian age. In this time slice it is recorded from following Caribbean regions: Cuba (1; Caudri, 1944; Hanzawa, 1962, 1963; Loeblich and Tappan, 1988), Florida (2; Loeblich and Tappan, 1988), Louisiana (4; Loeblich and Tappan, 1988), and Mexico (Ayala-Castanares, 1963; Pécheux, 1984). *Orbitocyclina* is also reported from Campanian locations in Europe [France (31), Neumann, 1972; Spain (32), Neumann, 1972; Austria (59), Papp, 1954, 1955a, 1955b, 1956]. During Maastrichtian times *Orbitocyclina* is only known from Caribbean locations (Cuba, Florida, Louisiana, Nauru, and Mexico) but there is also a record from South India (44; Gowda, 1964), which unfortunately cannot be verified by an illustration. The origination center of this genus cannot be identified to date.

8.23.4 Biology

Aguilar et al. (2002) suggest a deposition on the open shelf, where a huge part is covered with terrigeneous material. The accompanying fauna indicates a deposition in the lower photic zone. Therefore the living environment could be in a region with carbonate sedimentation, which was deposited in the forereef (Aguilar et al., 2002).

8.23.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Orbitocyclina* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Cuba (1): Caudri, 1944; Hanzawa, 1962; Hanzawa, 1963; Loeblich and Tappan, 1988

Florida (2): Loeblich and Tappan, 1988

Chiapas (3): Ayala-Castanares, 1963; Pécheux, 1984

Louisiana (4): Loeblich and Tappan, 1988

France (31): <u>Neumann, 1972</u>

Spain (32): <u>Neumann, 1972</u>

S-India (44): Gowda, 1964

Nauru (50): <u>Butterlin, 1992</u>

NE-Mexico (52): Butterlin, 1967; Loeblich and Tappan, 1988; Butterlin, 1992; Aguilar et al., 2002; Caus et al., 2002

Austria (59): Papp, 1954; Papp, 1955a; Papp, 1955b; Papp, 1956

Mexico undiff. (68): Caudri, 1944; Butterlin, 1981; Loeblich and Tappan, 1988

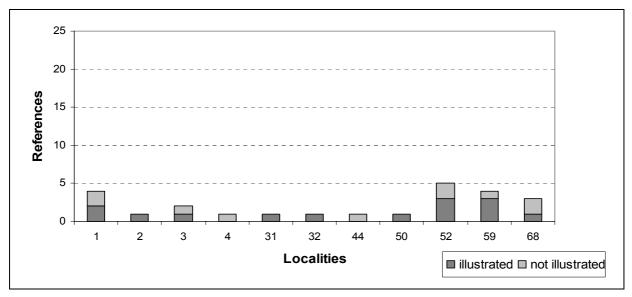


Figure 8.91: Number of illustrated and not illustrated references in the localities of Orbitocyclina

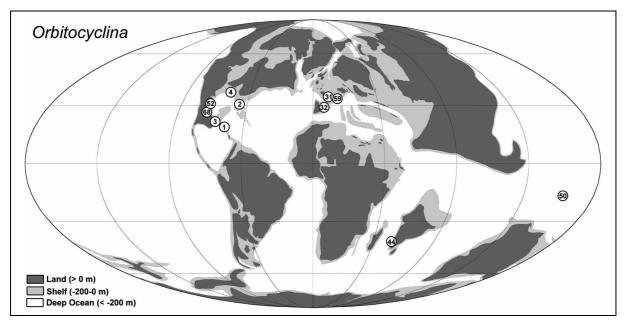


Figure 8.92: Global distribution of Orbitocyclina in the Late Cretaceous

In the Late Cretaceous *Orbitocyclina* is mainly distributed in the northern Caribbean region between Louisiana (4; Loeblich and Tappan, 1988), Florida (2; Loeblich and Tappan, 1988) and South Mexico (3; Ayala-Castanares, 1963; Pécheux, 1984). Campanian records are also from France (31; Neumann, 1972), Spain (32; Neumann, 1972), and Austria (59; Papp, 1954, 1955a, 1955b, 1956).

8.23.6 Remarks

There is currently some debate whether *Orbitocyclina* is indeed a separate genus or if it is synonymous with the genus *Lepidorbitoides*, which is strongly supported by Aguilar et al. (2002). The biogeographic distribution given above is therefore only preliminary. If this genus belongs to *Lepidorbitoides* it would have the same global distribution pattern as outlined in chapter 8.19 for *Lepidorbitoides*.

8.24 Laffitteina

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ROTALIACEA Ehrenberg, 1839 Family ROTALIIDAE Ehrenberg, 1839 Subfamily PARAROTALIINAE Reiss, 1963 Genus LAFFITTEINA Marie, 1945

8.24.1 Description

In 1945, Marie established the new genus *Laffitteina* in appreciation to R. Laffitte, based on material from the Montian of France. The test of *Laffitteina* is lenticular with a diameter of 3 mm and a thickness of 1 mm (Blanc, 1975). The chambers are arranged in an involute spiral consisting of about three whorls. The septa, which are slightly curved forward, are doubled. The thick septa are distinctly visible as sutures on the outside of the test and are provided with a double row of pores. The wall is calcareous hyaline.

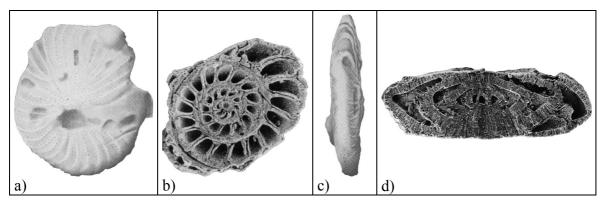


Figure 8.93: a) - d): L. mengaudi (Astre); a), c) Loeblich and Tappan, 1964, b), d) Blanc, 1975

8.24.2 Species

 Type species: Laffitteina bibensis Marie, 1945; p. 431; text-figs. 1-3, 14-16; pl. 1, figs. 1-6

 Synonyms: Laffitteina Marie, 1945; p. 430

 Species: L. bibensis Marie, 1945; p. 431; text-figs. 1-3, 14-16; pl. 1, figs. 1-6

 L. boluensis Dizer, 1957⁺

 L. conica Drooger, 1952; p. 100; pl. 16, figs. 10a-c, 16, 17

L. erki (Sirel, 1969)⁺

L. koyulhisarica Sirel, 1996; p. 20; pl. 9, figs. 1-22

L. marsicana Farinacci, 1965⁺

L. mengaudi (Astre, 1923) (Nummulites mengaudi Astre, 1923; p. 360)

- L. monodi Marie, 1945; p. 433; text-figs. 4-13, 17-23
- L. oeztuerki Inan⁺
- L. turcica Inan, 2002; p. 93; pl. 1, figs. 1-5

8.24.3	Age
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	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
MAR (15)				X	
DZA (16)				Х	
TUN (17)				Х	
LBY (18)				Х	
MRT (19)				Х	
VEN (10)					X
FRA (31)				X	
ESP (32)				X	
ITA (35)				X	
GRC (36)				X	
TUR (38)				X	X
AFG (43)				X	
PAK (46)				X	
HRV (62)				X	
SVN (63)				X	
ZYP (69)				X	
YUGf (74)				Х	

Figure 8.94: Stratigraphic range of the genus Laffitteina in its reported localities

Laffitteina occurs for the first time in the Maastrichtian with a wide distribution. It is recorded from the western end of the Tethys in Morocco (15; Fleury et al., 1985), Algeria (16; Fleury et al., 1985), Spain (32; Fleury et al., 1985; Caus and Hottinger, 1986; Caus, 1988; Loeblich and Tappan, 1988) to the eastern side of the Tethys in Turkey (38; Fleury et al., 1985; Inan, 1996a, 1996b; Sirel, 1996; Inan, 2002) and further east to Afghanistan (43; Fleury et al., 1985) and Pakistan (46; Fleury et al., 1985). It is particularly remarkable that it is one of the few larger foraminifera, that has not been affected by the mass extinction event at the end of the Maastrichtian (Sirel, 1996) and is also reported from the Paleocene of Turkey (38; Inan, 1996b; Sirel, 1996) and Venezuela (10; Renz, 1955). Due to its wide distribution in the Maastrichtian an origination center can not be identified for the moment.

8.24.4 Biology

Laffitteina occurs in association with Omphalocyclus, Rhapydionina, Orbitoides, Cuneolina, Loftusia, Siderolites, Hellenocyclina, and Sirtina.

The environment in which *Laffitteina* preferentially lived can be characterized as restricted shelf area. It mainly occurred in lagoonal facies (Caus, 1988; Inan, 1996a) as well as in subtidal-tidal areas (Caus, 1988; Inan, 1996a; Gusic et al., 1998) in the upper photic zone (Hottinger, 1997). The amount of canals in the test hints to a meso-eutrophic environment, maybe in estuaries of tropical shelfs (Hottinger, pers. com.). Inan (1996b) interprets *Laffitteina* to be adapted to somewhat colder conditions, "geographically to the northern part of the Neo-Tethys, between 15 and 30° north".

8.24.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Laffitteina* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Morocco (15): Fleury et al., 1985

Algeria (16): Fleury et al., 1985

Tunisia (17): Fleury et al., 1985

Libya (18): Fleury et al., 1985

Mauritania (19): Loeblich and Tappan, 1988

France (31): Blanc, 1975; Loeblich and Tappan, 1988

Spain (32): Fleury et al., 1985; Caus and Hottinger, 1986; Caus, 1988; Loeblich and Tappan, 1988

Italy (35): Fleury et al., 1985; Loeblich and Tappan, 1988

Greece (36): *Fleury et al., 1979; Fleury et al., 1985; Loeblich and Tappan, 1988; Zambetakis-Lekkas, 1988

Turkey (38): Fleury et al., 1985; Inan, 1996a; Inan, 1996b; Sirel, 1996; Inan, 2002

Afghanistan (43): Fleury et al., 1985

Pakistan (46): Fleury et al., 1985

Croatia (62): Fleury et al., 1985; Gusic et al., 1988; Gusic and Jelaska, 1990

Slovenia (63): Fleury et al., 1985

Cyprus (69): Fleury et al., 1985

Former Yugoslavia (74): Loeblich and Tappan, 1988

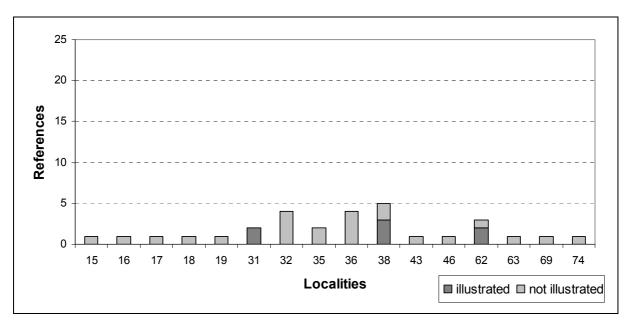


Figure 8.95: Number of illustrated and not illustrated references in the localities of Laffitteina

For reasons of clarity the locations Croatia (62), Slovenia (63) and former Yugoslavia (74) are plotted together in location 84 in figure 8.96.

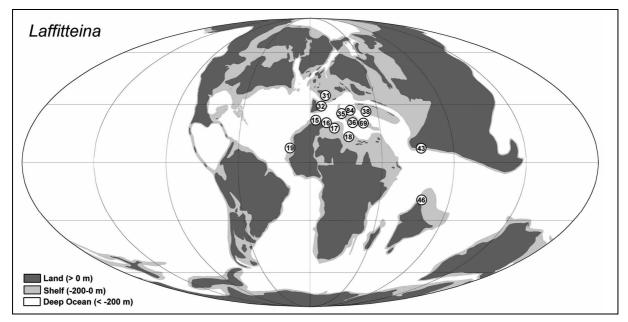


Figure 8.96: Global distribution of Laffitteina in the Late Cretaceous

In the Late Cretaceous *Laffitteina* shows a superregional distribution in the Tethyan area. It is densely distributed in southern Europe between France (31; Blanc, 1975), Spain (32; Fleury et al., 1985), Turkey (38; Inan, 1996a, 1996b; Sirel, 1996) and Cyprus (69; Fleury et al., 1985). Also in the western part of North Africa this genus can be found in the Late Cretaceous. It occurs in the region between Morocco (15; Fleury et al., 1985) and Libya (18; Fleury et al.,

1985) as well as in Mauritania (19; Loeblich and Tappan, 1988). There are also two records known from Asia: Afghanistan (43; Fleury et al., 1985) and Pakistan (46; Fleury et al., 1985).

8.24.6 Remarks

Gusic and Jelaska (1990) report *?Laffitteina* sp. from the Maastrichtian of Croatia. Unfortunately the illustration does not allow confirmation and requires further investigations.

8.25 *Siderolites*

Suborder ROTALIINA Delage and Hérouard, 1896 Superfamily ROTALIACEA Ehrenberg, 1839 Family CALCARINIDAE Schwager, 1876 Genus SIDEROLITES Lamarck, 1801

8.25.1 Description

Siderolites is among the most commonly encountered and most widely known Upper Cretaceous larger foraminiferal genera. Lamarck defined the genus *Siderolites* in the year 1801. The test of *Siderolites* is large, with a more or less distinct star-shape. The diameter is between 0.2 and 1.4 mm (Visser, 1951). It consists of an involute spiral with about four whorls. Several pillars cross the test perpendicular to the direction of coiling from the juvenarium to the outside, where they appear as pustules. In the direction of coiling some thick large spines arise and give the test the starlike appearance.

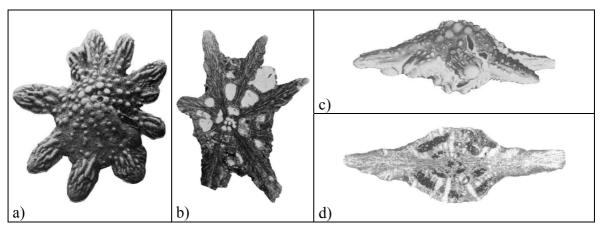


Figure 8.97: a) - d) *S. calcitrapoides* Lamarck; a), b) Wannier, 1983, c) Loeblich and Tappan, 1964, d) Abramovich et al., 2002

8.25.2 Species

Type species:	Siderolites calcitrapoides Lamarck, 1801 ⁺
Synonyms:	Siderolites Lamarck, 1801 ⁺
	Siderolithes de Montfort, 1808 ⁺
Species:	S. calcitrapoides Lamarck, 1801 ⁺
	S. cataluniensis Wannier, 1983 ⁺

- S. denticulatus Douvillé, 1906⁺
- *S. heracleae* Arni, 1932⁺
- S. laevigata Douvillé⁺
- S. praecalcitrapoides Neumann, 1986⁺
- S. praevidali Andreieff and Neumann, 1983
- S. vidali Douvillé, 1906⁺

8.25.3	Age
0.20.0	

	Pre-Santonian	Santonian	Campanian	Maastrichtian	Paleogene
CUB (1)			?	Х	
DZA (16)				Х	
LBY (18)				Х	
SAU (22)				Х	
OMN (23)			Х	Х	
YEM (25)				Х	
SYR (28)				Х	
MDG (29)	?	?	?	?	
BEL (30)				Х	Х
FRA (31)		X	Х	Х	
ESP (32)			Х	Х	
GER (33)				Х	
Sicily (34)				Х	
ITA (35)				Х	
GRC (36)			Х	Х	
YUG (37)				Х	
TUR (38)	?	X	Х	Х	
ROM (41)				Х	
S-IND (44)				Х	
N-IND (45)				Х	
PAK (46)			Х	Х	
T-CHN (48)				Х	
IRN (56)				Х	
NLD (57)				Х	Х
CHE (58)			Х	Х	
AUT (59)			Х	Х	
HRV (62)	?	?	?	?	
SVN (63)				Х	
PHL (65)	?	?	?	?	?
ZYP (69)		?	?	?	
SVK/CZE (71)			X		
CHN (73)				Х	

Figure 8.98: Stratigraphic range of the genus Siderolites in its reported localities

The first secure stratigraphic records of *Siderolites* are from the Santonian of France (31; Séronie-Vivien, 1972) and Turkey (38; Sirel, 1991). From the Campanian it is, beyond further European locations, mentioned from Oman (23; Abdelghany, 2003). The main occurrence is in the Maastrichtian where it is known from European, African and Asian regions. Further there is also one record from Cuba (1; Seiglie and Ayala-Castanares, 1963). Hofker (1966) mentioned *Siderolites* also from the Paleocene of Belgium (30) and the Netherlands (57). It seems that *Siderolites* originated in Turkey in the Turonian with a successive distribution in Europe, Africa and Asia.

8.25.4 Biology

Siderolites mostly occurs in association with *Orbitoides*, *Sulcoperculina*, *Omphalocyclus*, and *Lepidorbitoides*. Moreover the following genera are reported from most of the same locations: *Nummofallotia*, *Dictyopsella*, *Hellenocyclina*, and *Sirtina*.

In most cases *Siderolites* is reported from open platform environments (Azéma et al., 1979; Caus, 1988; Mavrikas et al., 1994), but there are also records, which indicate a protected habitat (Nagappa, 1959; Caus, 1988). It occurs in shallow marine water of the upper photic zone down to about 40 m (Hottinger, 1997). Like its recent relatives it possibly that it lived attached to hard substrate in areas of high water energy (Hottinger, 1983; Hallock and Glenn, 1986; Caus, 1988; Hohenegger, 1999; Langer and Lipps, 2003; Röttger and Krüger, 1990).

8.25.5 Biogeographic distribution and Faunal Province

In the Late Cretaceous *Siderolites* is reported from the following locations (*Senonian/Late Cretaceous records, <u>illustrated records</u>, not illustrated records):

Algeria (16): Fleury et al., 1985 Libya (18): Fleury et al., 1985 Saudi Arabia (22): Fleury et al., 1985 Oman (23): Al-Omari and Sadek, 1976; <u>Abdelghany, 2003</u> Yemen (25): <u>Sartorio and Venturini, 1988</u> Syria (28): Fleury et al., 1985 Madagascar (29): <u>Abramovich et al., 2002</u> Belgium (30): Hofker, 1966

- France (31): *Renz, 1936; Papp, 1954; Barrier and Neumann, 1959; Séronie-Vivien, 1972; van Gorsel, 1973a; <u>Wannier, 1980</u>; <u>Andreieff and Neumann, 1983</u>; <u>Wannier, 1983</u>; Neumann, 1993; Caus et al., 1996
- Spain (32): <u>Pfender, 1935</u>; Hottinger, 1966; <u>Azéma et al., 1979</u>; Caus and Cornella, 1983; <u>Wannier, 1983</u>; Fleury et al., 1985; Caus, 1988; Neumann, 1993
- Germany (33): *Visser, 1951; Hagn, 1971
- Sicily (34): *Visser, 1951; Sartorio and Venturini, 1988
- Italy (35): *Visser, 1951; *Luperto Sinni, 1966; Busulini et al., 1984; <u>Sartorio and Venturini,</u> <u>1988</u>
- Greece (36): <u>Arni, 1933</u>; *Renz, 1936; *Visser, 1951; Butterlin, 1967; *Fleury, 1977; Zambetakis-Lekkas, 1988; <u>Fleury et al., 1990</u>; Mavrikas et al., 1994

Yugoslavia (37): Papp, 1954

- Turkey (38): Sirel, 1991; <u>Özcan, 1993</u>; <u>Caus et al., 1996</u>; Inan, 1996a; Sirel, 1996; *Meric et al., 1997; Özcan and Özkan-Altiner, 1997; Görmüs, 1999; Özcan and Özkan-Altiner, 1999a; Özcan and Özkan-Altiner, 1999b; Özkan-Altiner and Özcan, 1999
- Romania (41): Ion, 1975
- S-India (44): Nagappa, 1959; Gowda, 1964; McGowran, 1968; Fleury et al., 1985
- N-India (45): <u>Nagappa, 1959</u>; Wen, 1987
- Pakistan (46): <u>Nagappa, 1959</u>; McGowran, 1968; Kureshy, 1977; Kureshy, 1980; Fleury et al., 1985; Wen, 1987; Weiss, 1993
- Tibet (48): Willems et al., 1996
- Iran (56): *Cox, 1937; Al-Omari and Sadek, 1976; Kalantari, 1976; Fleury et al., 1985
- Netherlands (57): Pfender, 1935; *Renz, 1936; Visser, 1951; Papp, 1954; Hofker, 1966; Wannier, 1980; Wannier, 1983; Fleury et al., 1985; Loeblich and Tappan, 1988
- Switzerland (58): Renz, 1936; Bignot and Neumann, 1997
- Austria (59): Papp and Küpper, 1953b; Papp, 1954; Papp, 1955b; <u>Papp, 1955c;</u> Papp, 1956; Neumann, 1993; Bignot and Neumann, 1997
- Croatia (62): Fleury et al., 1990
- Slovenia (63): Bignot, 1972
- Cyprus (69): *Renz, 1936
- Slovakia (71): Andrusov, 1934; Neumann, 1993
- China (73): Gaetani et al., 1980
- Pyrenees (31/32): Neumann, 1993; Caus et al., 1996
- Czechoslovakia (71/74): Neumann, 1993

N Europe, S Europe, N Africa, Middle East, S USSR, India: Dilley, 1973

Europe, Middle East, India: Loeblich and Tappan, 1988

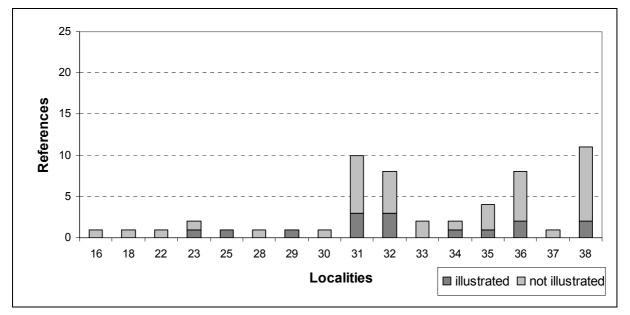


Figure 8.99a: Number of illustrated and not illustrated references in the localities of Siderolites

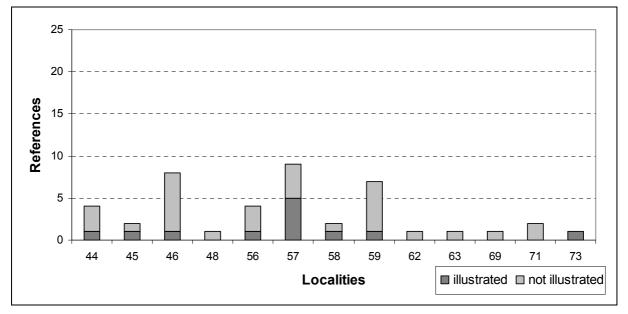


Figure 8.99b: Number of illustrated and not illustrated references in the localities of Siderolites

For reasons of clarity the following locations are plotted together in figure 8.100: Belgium (30) and the Netherlands (57) in location 80, Germany (33), Switzerland (58) and Austria (59) in location 82, Yugoslavia (37), Croatia (62), and Slovenia (63) in location 84.

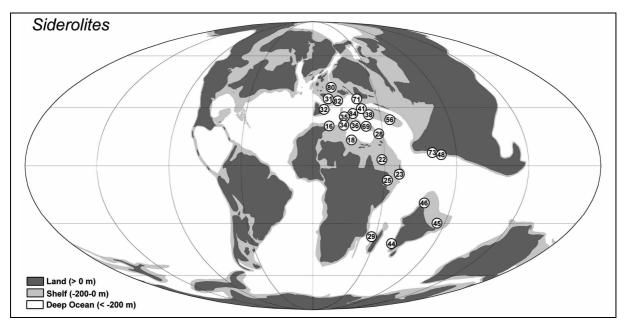


Figure 8.100: Global distribution of Siderolites in the Late Cretaceous

The genus *Siderolites* has a superregional distribution in the European and the African Tethys, as well as in the Asian region. As the first occurrence is from the Turonian of Turkey, it is probable that the genus originated in this region. During the Santonian *Siderolites* is only known from Europe, which supports this hypothesis. In the Campanian the first occurrence beyond Europe is from Oman (23; Abdelghany, 2003). In the Maastrichtian *Siderolites* occurs in Europe, Africa and Asia. There is also one record from Cuba (1; Seiglie and Ayala-Castanares, 1963), but this record cannot be verified by illustrations.

Siderolites may represent the Cretaceous analog to the modern star-sand foraminifera that are distributed within the center of diversity in the Asiatic core region.

8.25.6 Remarks

Seiglie and Ayala-Castanares (1963) report *Siderolites vanbelleni* (van den Bold) and *Siderolites skourensis* (Pfender) from the Maastrichtian of Cuba. *Siderolites skourensis*, however, belongs to the genus *Rotalia*. In addition, these records cannot be verified, as there are neither illustrations in the literature nor detailed descriptions of the specimens.

Also the record from Luzon, Philippines (65; Hashimoto et al., 1978a) is doubtful. Here again, there is no figure of *?Siderolites* sp., and the authors did not describe the specimens.

The illustrated specimens of *Siderolites praevidali*, *S. vidali*, and *S. charentensis* from the Campanian and Maastrichtian of France and Spain (Neumann, 1997) all do not possess protruding spines, which are characteristic for this genus. It is more likely that these forms

belong to the genus *?Praesiderolites*. Due to the lack of illustration, which could verify the affiliation to the genus *Siderolites*, the specimen of *Siderolites* sp. from the Maastrichtian of the Netherlands and *S. praecalcitrapoides* from the Maastrichtian of France (Neumann, 1997) are not depicted in the distribution map.

Van Gorsel (1973b) report *Siderolites vidali* from the Campanian of France, but the illustration does not show the development of spines.

9 Discussion

The discussion of this thesis is divided into three parts. In the first part an interpretation of the biogeographic distribution patterns of the analyzed larger foraminifera is given. The analysis is mainly based on generic level because a comparison of the global biodiversity patterns of hermatypic corals on generic level (Veron, 1995) and that of mangrove taxa on species level (Rosen, 1988) demonstrated that both show comparable patterns. For verification some foraminiferal taxa were analyzed on species level. When determining distribution patterns, which are the ultimate goals of this work, it is important to understand if a genus is polyspecific (e.g. *Loftusia, Orbitoides, Pseudorbitoides*), or monospecific (e.g. *Clypeorbis, Hellenocyclina, Meandropsina, Rhapydionina, Sirtina, Spirocyclina*). Afterwards these patterns will be compared to patterns, which were observed in modern larger foraminifera. The second part comprises the categorization of faunal provinces in the Late Cretaceous and focusses on the difference to those in modern counterparts. In the third section the diversity of the Late Cretaceous larger foraminifera will be analyzed and the development of patterns of biodiversity through time will be discussed.

9.1 Biogeographic Patterns of Larger Foraminifera

The analysis of the global distribution of the 25 genera of Late Cretaceous larger foraminifera revealed that most of these taxa occur in the tropical and subtropical latitudes, which ranges between approximately 30° North and 30° South. This distribution strongly correlates with the Late Cretaceous carbonate platforms distribution (Chapter 2 "Material and Methods"; Figure 2.2), which were situated in a belt between 30° South and 35° North. Therefore it is possible to use warm water carbonates as a hint to the occurrence of larger foraminifera. However, many of the analyzed genera also occur outside of this belt. Some of those genera reach latitudes of 45° North and 40° South. The northernmost locations in Europe are Sweden (site 40), Belgium (30), and the Netherlands (site 57). In North America, Louisiana and Mississippi (site 4) and Texas (site 5), the northernmost locations, do not reach the latitudinal extension of the European sites. The northernmost locations in Asia are Malaysia (site 64) and the Philippines (site 65), which are situated near the Late Cretaceous equator. The extreme distributions of the genera to the north might be the result of the nordwards directed oceanic heat transport from the equator to the poles. In the Atlantic and in the Pacific coastal

regions, however, the water temperatures were much lower, which results in a restricted northward distribution.

The southernmost locations are Madagascar (site 29) and South-India (site 44). These locations are situated about 40° South. Remarkable is that the southernmost location of South America, Colombia (site 11), is situated near the Late Cretaceous equator. The absence of locations further in the south can be explained by the cold water currents, which result from the Southern Pacific Gyre.

Some patterns in the latitudinal as well as in the longitudinal distribution are particularly prominent. Restricted to the 30° belts are the genera *Loftusia*, *Pseudedomia*, *Raadshoovenia*, and *Rhapydionina*. These genera only occur in the European-African Tethys and do not cross the Atlantic or the Pacific Ocean. The genus *Chubbina* only occurs in the Caribbean region in the northern part of the 30° belt. Also restricted to the European-African region, but with a more northward distribution are the genera *Dictyopsella*, *Lacazina*, *Meandropsina*, *Nummofallotia*, *Clypeorbis*, *Helicorbitoides*, and *Hellenocyclina*. With the exception of the genus *Hellenocyclina*, all these genera exclusively occur in the European Tethyan area. *Hellenocyclina*, however, also occurs in the northern part of Africa. *Spirocyclina* and *Subalveolina* are only known from locations north of the 30° belt. Both genera are endemic to France (site 31). Inside of the belt as well as north and south of the belt occur the genera *Lepidorbitoides*, *Omphalocyclus*, *Orbitocyclina*, *Orbitoides*, *Siderolites*, and *Sirtina*.

Resulting from the above described distribution of the analyzed genera some distinct patterns are obvious. These patterns can be divided into three categories of distribution: 1) regional, 2) superregional, and 3) circumtropical distribution. These categories are distinguished by their geographical extension.

The regional distribution is characterized by a very restricted spatial, "local" extension. The records of a genus are separated by areas of shallow-water or very narrow passages of deepsea water. This pattern is realized in the genera *Chubbina*, *Lacazina*, *Meandropsina*, *Spirocyclina*, and *Subalveolina*. Their latitudinal and longitudinal distribution does not exceed 15°, and these genera are only found north of the equator. These taxa seem to be very specialized and sensitive to changes in ecological features, such as temperature, habitat or nutrients.

The second category represents a "superregional" distribution, which is characterized by a much wider geographical extension than the regional distribution pattern. This might include a distribution across a broad deep-water seaway, as in the Caribbean region, where during the Late Cretaceous the shallow-water areas of North America and South America were divided

by deep-water passages. It also includes the great distances in the Tethyan area between southern Europe and Africa. The latitudinal distribution ranges between 20° and 40° , the longitudinal extension between 20° and 25° . This distribution pattern is displayed by the genera *Clypeorbis*, *Helicorbitoides*, *Hellenocyclina*, *Loftusia*, *Nummofallotia*, *Pseudedomia*, and *Raadshoovenia*. Some genera show a more expanded distribution: *Laffitteina*, *Siderolites*, and *Sirtina* exhibit a superregional distribution with some distantly situated locations. All these taxa appear to be more tolerant in their ecological constraints than the genera showing a regional distribution. The features limiting their distribution seem to be the availability of stepping stones and the temperature gradient.

The third distribution pattern is global-circumtropical. Here, the genera show a global distribution with a restriction to the subtropical and tropical belt. This pattern is realized in the genera *Lepidorbitoides*, *Omphalocyclus*, and *Orbitoides*.

Beside these categories there are also some genera whose distribution pattern can not be assigned to only one of those categories but show a transition of the different patterns. The genera *Dictyopsella* and *Rhapydionina* show a transition between the regional and the superregional pattern, while a superregional-circumtropical pattern is realized in the genera *Cuneolina, Orbitocyclina, Pseudorbitoides, Sulcoperculina,* and *Vaughanina*. These last genera show a superregional distribution pattern but some of the locations are very far apart. This is mainly realized in genera of the Carribbean area, where some locations are situated far out in the Pacific Ocean. These occurrences can be explained by the existence of suitable stepping stones, which facilitated the distribution towards the west.

The comparison with the biogeographic distribution of modern larger symbiont-bearing foraminifera, which were analyzed by Langer and Hottinger (2000), shows similar patterns. Here again three categories, regional, superregional and global-circumtropical, are distinct. Examples for these patterns are *Cyclorbiculina compressa* (regional distribution), *Marginopora vertebralis* (superregional distribution) and *Amphisorus hemprichii* (global-circumtropical distribution).

Both, modern and fossil biogeographic patterns show that there are great differences in the grade of distribution of symbiont-bearing larger foraminifera. Some genera only occur in a small area, while other genera do not show any restriction in their longitudinal distribution. But what is the reason for this phenomenon? In what way are the global distributed foraminifera different from the others? What mechanisms push these differences, as the mechanisms of distribution are the same in all larger foraminifera, as well as the sea surface

currents are the same too. These questions are quite complicated and still not yet resolved and need therefore further investigations.

As mentioned above the longitudinal distribution needs more investigations but an obvious reason for the latitudinal distribution seems to be the temperature. In the Late Cretaceous the global distribution of larger foraminifera is limited to a belt, which is defined by the 45° North and 40° South latitudes. Today, the latitudinal extention is much narrower. The distribution of modern larger foraminifera is limited to within 36° North and 34° South (Langer and Hottinger, 2000).

The differences are probably due to the extension of climatic belts. The Late Cretaceous was characterized by much higher temperatures than today. This led to higher sea surface temperatures, which enabled the foraminifera to extend towards more polewards regions.

Always a point of great interest is the origination center of the genera. This aspect can be examined with the comparison of the occurrences of the genera in different time slices. The analysis of some genera offers a good possibility for an interpretation (*Clypeorbis*, *Hellenocyclina*, etc.), while other genera do not show such a clear picture.

It is not possible to identify an origination center for following genera: *Chubbina, Cuneolina, Helicorbitoides, Laffitteina, Lepidorbitoides, Nummofallotia, Omphalocyclus, Orbitocyclina, Orbitoides, Pseudedomia, Pseudorbitoides, Raadshoovenia, Sirtina,* and *Spirocyclina,* as there are records from several locations at the same time.

The genera *Dictyopsella*, *Loftusia*, and *Siderolites* seem to have been originated in the eastern part of the Mediterranean Tethys, while the fossil record of *Clypeorbis*, *Hellenocyclina*, *Lacazina*, *Meandropsina*, and *Subalveolina* hints to an origination center in the western part of the Mediterranean Tethys. *Rhapydionina* seems to have originated in the median part. The origin of *Sulcoperculina* and *Vaughanina* is situated in the Caribbean area.

Regarding the aspect of the origination center it has to be mentioned that the fossil record may be incomplete, so that further investigations might change the results.

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9.2 Faunal Provinces of Larger Foraminifera

An analysis of the biogeographic distribution pattern of the Late Cretaceous larger Foraminifera led to four Faunal Provinces (FP). These are characterized by the presence and absence of the foraminiferal taxa (Figure 9.1).

	Caribbean FP	European FP - West	European FP - East	African FP	Asian FP
Chubbina	Х				
Clypeorbis		Х	Х		
Cuneolina	Х	Х	Х	Х	
Dictyopsella		Х	Х		
Helicorbitoides		Х	Х		
Hellenocyclina		Х	Х	Х	
Lacazina		Х	Х		
Laffitteina		Х	Х	Х	Х
Lepidorbitoides	Х	Х	Х	Х	Х
Loftusia			Х	Х	
Meandropsina		Х			
Nummofallotia		Х	Х		
Omphalocyclus	Х	Х	Х	Х	Х
Orbitocyclina	Х	Х			Х
Orbitoides	Х	Х	Х	Х	Х
Pseudedomia		Х	Х	Х	
Pseudorbitoides	X				
Raadshoovenia		Х	Х	Х	
Rhapydionina			Х	Х	
Siderolites		Х	Х	Х	Х
Sirtina		Х	Х	Х	
Spirocyclina		Х			
Subalveolina		Х			
Sulcoperculina	X				
Vaughanina	Х				

Figure 9.1: Late Cretaceous Faunal Provinces (FP) and their larger foraminiferal content

The Faunal Provinces (FP) are named after their geographical position: 1) Caribbean FP, 2) Asian FP, 3a) European FP, and 3b) African FP (Figure 9.2).

The Caribbean Faunal Province (CFP) comprises the "modern" Caribbean from the southern USA (Florida, Louisiana, Mississippi, and Texas), along Mexico, Guatemala, Puerto Rico, Cuba, Jamaica, Haiti, to Venezuela and Colombia. Hawaii, the Line Islands and the Marshall Islands in the Pacific Ocean also belong to the CFP. As is discussed in chapter 4.2

"Paleoceanography" in the Late Cretaceous, these islands were situated closer to the Caribbean region and shallow-marine "stepping-stones" facilitated the distribution from the Caribbean. It is prominent that the CFP is mainly situated on the northern hemisphere. The extension of this faunal province is limited by the presence of the genera *Chubbina*, *Pseudorbitoides*, *Sulcoperculina*, and *Vaughanina*. The CFP is also defined by the absence of the following genera: *Clypeorbis*, *Cuneolina*, *Dictyopsella*, *Helicorbitoides*, *Hellenocyclina*, *Lacazina*, *Laffitteina*, *Loftusia*, *Meandropsina*, *Nummofallotia*, *Pseudedomia*, *Raadshoovenia*, *Rhapydionina*, *Siderolites*, *Sirtina*, *Spirocyclina*, and *Subalveolina*.

The Asian Faunal Province (ASP) includes the area between India, Pakistan, the Philippines, and Australia. The southernmost location in this province is South India (44), which is situated around 40° S. It is the southernmost record of all analyzed larger foraminifera in the Late Cretaceous. The Asiatic region is the most widely spread and complicated faunal province of all. This is due to the paleogeographic situation. The broad seaway of the Pacific Ocean separates the three major shelf regions, which occur along the Asiatic continent in the north, and India and Madagascar in the south. There are no "stepping stones" like in the Caribbean Faunal Province. The Pacific Islands did not yet exist or were much closer to the American continents (e.g. Nauru, the Line Islands, Hawaii) and therefore belong to the Caribbean Faunal Province as discussed previously. Contrary to the Caribbean Faunal Province, the ASP is predominately situated on the southern hemisphere. The number of genera that occur in this region is small. Unlike the other Late Cretaceous Faunal Provinces, the ASP is not characterized by endemic taxa. Instead, the presence of circumtropical taxa (Lepidorbitoides, Omphalocyclus, and Orbitoides) and the absence of all other analyzed genera define this Faunal Province. Additionally there are few records of Laffitteina, Orbitocyclina, and Siderolites in this Province, but these are restricted to the western part of the Province.

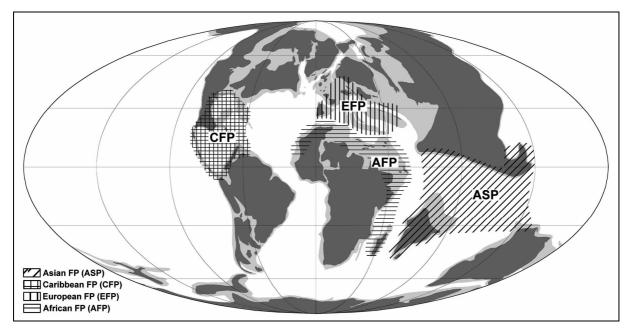


Figure 9.2: Late Cretaceous Faunal Provinces

A major biogeographic region is the Mediterranean Tethyan area between Europe and Africa. This realm is divided in the European Faunal Province (EFP) and the African Faunal Province (AFP). These are characterized as subprovinces, as they adjoin in the Tethys where the limits often cannot strictly be drawn. Most of the genera show a main distribution in the European part of the Tethys with only few records from the African part (e.g. *Cuneolina*, *Hellenocyclina*, *Raadshoovenia*, *Rhapydionina*, and *Sirtina*). Contrary, a dominant distribution in the African Tethys with few records from the European part is not realized. This would support the assumption that the center of origin is situated in the European Faunal Province and that the occurrences in the African Tethys are the result of dispersion.

The European Faunal Province ranges between Spain (32), Sweden (40), South Russia (42) and Iran (56). The southern border is marked by the locations Sardinia (72), Sicily (34), Greece (36), and Cyprus (69). The northernmost location in the EFP is southern Sweden (40). It is situated about 45° N. It is the northernmost location in the distribution of the analyzed Late Cretaceous larger foraminifera. The European Faunal Province, which is completely positioned on the northern hemisphere, bears a particularly high diversity, which includes the presence of the genera *Clypeorbis*, *Cuneolina*, *Dictyopsella*, *Helicorbitoides*, *Hellenocyclina*, Lepidorbitoides, Loftusia, Meandropsina, Lacazina, Laffitteina, Nummofallotia, Orbitocyclina, Orbitoides, Omphalocyclus, Pseudedomia, Raadshoovenia, Rhapydionina, Siderolites, Sirtina, Spirocyclina, and Subalveolina. The EFP further seems to be divisible into a western and an eastern part. The western part comprises the locations between Sweden (40), Belgium (30), the Netherlands (57), France (31), Portugal (39), Spain (32), Switzerland (58) and Austria (59). The localities east of Italy (35) and Sicily (34) belong to the eastern part. The split is clearly visible in the genera *Lacazina*, *Meandropsina*, *Spirocyclina*, and *Subalveolina* whose occurrence in the Tethyan area is restricted to the western part, whereas *Loftusia* and *Rhapydionina* only occur in locations, which are situated in the eastern part. The genera *Chubbina*, *Sulcoperculina*, *Pseudorbitoides*, and *Vaughanina* are absent from the EFP.

The African Faunal Province comprises the locations, which are situated on the continental shallow water shelf along North Africa between Morocco (15), Syria (28), Oman (23), and Somalia (26). Further, this Faunal Province also contains a location in West of Africa, Mauritania (19), as well as in Madagascar (29). As discussed above, this Faunal Province is closely related to the European Faunal Province. There are no genera that exclusively occur in the AFP, they always also occur in the European Faunal Province. The AFP is characterized by the presence of *Cuneolina*, *Hellenocyclina*, *Laffitteina*, *Lepidorbitoides*, *Loftusia*, *Omphalocyclus*, *Orbitoides*, *Pseudedomia*, *Raadshoovenia*, *Rhapydionina*, *Siderolites*, and *Sirtina*, and the absence of Caribbean genera (*Chubbina*, *Pseudorbitoides*, *Sulcoperculina*, and *Vaughanina*) and endemic European genera (*Clypeorbis*, *Dictyopsella*, *Helicorbitoides*, *Lacazina*, *Meandropsina*, *Nummofallotia*, *Spirocyclina*, and *Subalveolina*).

A comparison of the Faunal Provinces from the Late Cretaceous with those of the Tertiary and today shows strong analogies. In every time slice three major regions, the Caribbean, the Tethyan and the Asiatic one, are distinguishable.

The three faunal provinces of the Tertiary, 1) Central America, 2) Tethys, and 3) Indo-West Pacific, which Adams (1967, 1983) has established, have nearly the same extensions as the Late Cretaceous ones. Adams (1967) also notes a split of the Tethys in a western part, the Mediterranean, and an eastern part that comprises the area east of Iran and Iraq. Adams (1967) also interprets the area in the western Tethys as a center of dispersal in the Paleogene.

The comparison with the modern faunal provinces indicates more differences. The extension of the Caribbean Faunal Province is nearly the same, with the exception that in the Late Cretaceous some of the Pacific Islands (Nauru, the Line Islands, and Hawaii) were situated closer to the American continents, so that they are attached to the Caribbean Faunal Province. In the other two realms the differences are more distinct. The Late Cretaceous subdivision in the Tethys does not exist today. Instead there is one faunal province at the western side of the Indian Ocean, which is certainly due to the geographic situation. While in the Cretaceous a broad seaway dominated this region, this connection is interrupted today. In the Asian region this circumstance is reversed. In the Late Cretaceous one Faunal Province was situated in this

region while today two faunal provinces, the Inner, Central Pacific province and the Central Indopacific realm are present. This again is explained by the geographic setting. In the Late Cretaceous this region was dominated by a huge seaway without intercalated islands, while today this region is the most differentiated region at all.

The latitudinal extension of the faunal provinces has also changed significantly. While in the Late Cretaceous the maximal extension was between 45° North and 40° South Latitude, the modern faunal provinces do not exceed 35° North and South (Langer and Hottinger, 2000). The occurrence of larger foraminifera during the Tertiary is roughly given with around 50° North and 50° South (Adams, 1967). These variances can be explained with the changes in temperature throughout the earth history. The Cretaceous and the Tertiary climates were much warmer than today, which resulted in a much broader subtropical and tropical belt.

9.3 Diversity of Larger Foraminifera

On the basis of the biogeographical distribution of the larger foraminifera it is possible to make statements about the diversity in the Late Cretaceous. This discussion is based on generic level. In appendix 13.4 "Diversity in the Localities" the existence of the analyzed foraminiferal genera in the different locations is given. The diversity can be expressed in several ways.

In the first method, the number of genera in each location of the different Faunal Provinces (Figures 9.3a-d) is given. By this way a survey of the spatial distribution of diversity within a Faunal Province becomes clear. The diversity peaks can be located and characterized. Similar characteristics of the diversity maxima in the Faunal Provinces hint at the constraints, which rest on the ecological environments of the larger foraminifera.

In the Caribbean Faunal Province (Figure 9.3a) the diversity is by far highest at Cuba (site 1). Here, 9 of the analyzed 25 genera occur, which is 36 % of all genera under consideration. Florida and South Mexico (sites 2 and 3) each contain 7 genera (28 %), while in Venezuela (site 10) 6 genera occur (24 %). The lowest diversity can be found in Honduras, Veracruz, Papua New Guinea, and Bahamas (sites 8, 14, 51 and 21), each with only one genus.

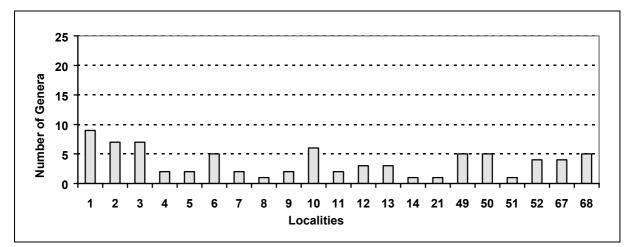


Figure 9.3a: Number of genera in the locations of the Caribbean Faunal Province

The northernmost locations, Louisiana and Mississippi and Texas (sites 4 and 5) contain a very low diversity, which is probabely due to the lower temperature. A very astonishing aspect is the content of some isolated locations. In the Late Cretaceous the Line Islands, Nauru, and Hawaii (sites 49, 50 and 67) were connected to the American landmasses by

"stepping stones", but still isolated by deep-water areas. However, they contain a relative high number of genera.

In the European area (Figure 9.3b) the highest diversity is found in France (site 31) with 17 genera, which represents 68 % of the genera, followed by Spain (site 32) with 16 of the 25 genera, which represents 64 %. Greece and Turkey (sites 36 and 38) contain 14 genera (56 %). This pattern is interesting as both peaks are situated at the opposite ends of the European Faunal Province. These peaks are followed by Italy (site 35) with 12 genera (48 %) and Yugoslavia (site 37) with 10 genera (40 %).

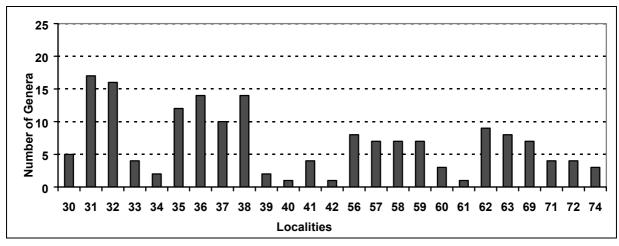


Figure 9.3b: Number of genera in the locations of the European Faunal Province

The lowest diversity is found in Sweden, South Russia, and Albania (sites 40, 42 and 61) each with a single genus. The northernmost location in the European Faunal Province is Sweden, where the temperature is less high than in the south of the Province, which is reflected in the low diversity.

In Africa (Figure 9.3c) the maximum diversity can be found in the eastern region. Iraq and Libya (sites 27 and 18) contain 6 genera (24 %).

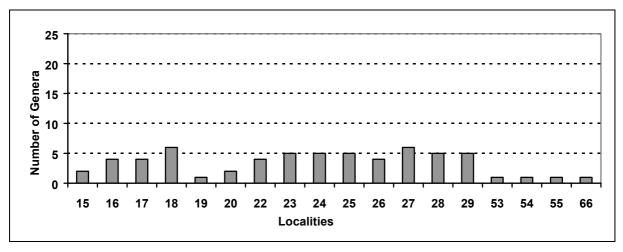


Figure 9.3c: Number of genera in the locations of the African Faunal Province

Mauritania, Israel, Lebanon, Kuwait, and the United Arab Emirates (sites 19, 53, 54, 55 and 66) display the lowest diversity with only one genus. Mauritania is situated at the western coast of Africa, which explains the low diversity. The low diversity in Israel, Lebanon and Kuwait are conspicuous as they are situated in direct neighborhood to Iraq, where the diversity is very high. This might be explained with a lack in the fossil record or in sampling. The same situation is in the United Arab Emirates, which lies between Oman (site 23) and Qatar (site 24), each showing a moderate diversity. Astonishing is also the diversity of Madagascar (site 29). It is the second-most southern location, but shows with 5 genera a relative high diversity.

The Asian Faunal Province (Figure 9.3d) contains only a small number of the analyzed genera. In Pakistan (site 46) 5 genera (20 %) occur, and Tibet (site 48) contains 4 genera (16 %).

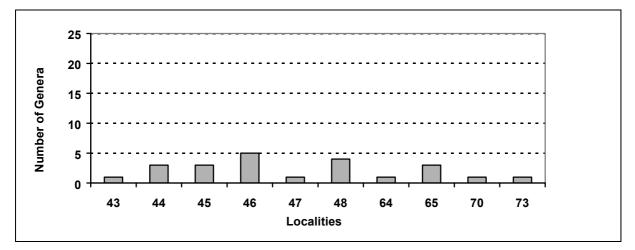


Figure 9.3d: Number of genera in the locations of the Asian Faunal Province

Pakistan, North India, South India, and the Philippines (sites 46, 45, 44 and 65) are characterized by wide shelf areas, which explain the higher diversity. Tibet, however, does not show this character, but also contains a high diversity. The locations in the neighborhood of Tibet, Afghanistan (site 43), and China (site 73) exhibit only a low diversity.

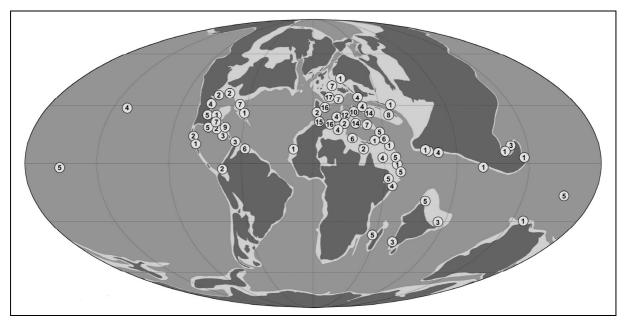


Figure 9.4: Number of genera in the locations

The position of the diversity peaks in the four Faunal Provinces (Figure 9.4) clearly shows that the diversity varies strongly within each province. Often this can be explained by the exposed geographic situation. The locations with a high diversity are mostly characterized by a huge shelf region. Further they are mostly situated in a great distance to the coast, which prevents the contamination of the water with terrestric sediments from rivers. These settings provide an ideal living environment for the larger foraminifera, which require warm, oligotrophic habitats.

A second method to illustrate the diversity, which is also a geographical approach, is the comparison between the Faunal Provinces (Figure 9.5). In this case the number of genera, which occur in the whole Faunal Province, is determined and compared with the diversity of the other Faunal Provinces.

Here it is important to look at the entire province. Cuba in the Caribbean Faunal Province, for example, contains 9 genera, which represents a high diversity for the location. But in the Caribbean realm not more than 9 different genera occur, while in the African Faunal Province 12 genera occur. However, these genera do not occur all in one location but are distributed

over the whole province, so that the highest number of foraminifera, which occur in an African location, is 7.

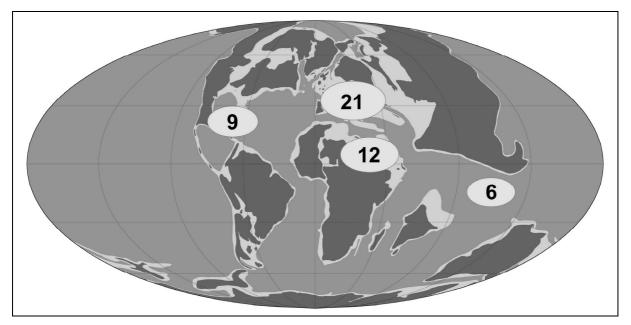


Figure 9.5: Generic diversity of Late Cretaceous larger foraminifera (number of genera)

In the Late Cretaceous 21 of the 25 analyzed genera of larger symbiont-bearing foraminifera occur in Europe. In Africa 12 genera occur, while the Caribbean realm contains 9 and the Asian region 6 genera. With 84 % of the analyzed genera the European area is the hotspot of generic diversity of larger symbiont-bearing foraminifera in the Late Cretaceous (Figure 9.6). Africa shows a minor diversity peak with 48 % of the analyzed genera. In the Caribbean realm the diversity contains 36 %, while the diversity is lowest in the Asian region with 24 %.

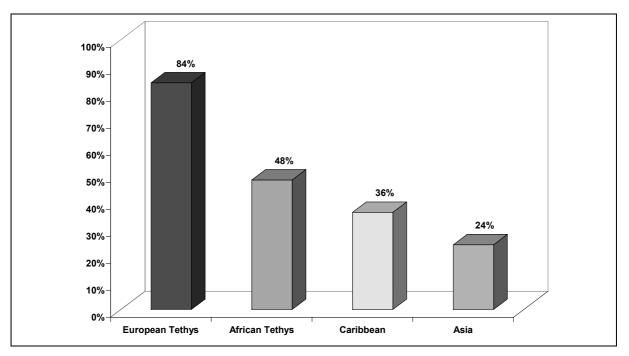


Figure 9.6: Percentage of the global diversity in the Faunal Provinces

It is very distinct that the diversity in the European Tethys with 84 % of the occuring genera is the highest of the prevailing Faunal Provinces. It is nearly twice the diversity of the African Tethys (48 %) and the Caribbean region (36 %) and three times as high as the diversity in the Asian region (24 %). However, the question remains why the number of genera is so various in the adjacent Faunal Provinces like in the European and African Tethys.

A third approach to evaluate diversity is to plot the value of diversity against the latitude (Figure 9.7). The number of the occuring genera at latitudes between 40° N and 40° S is summarized. Thereby the biogeographic provinces are not taken into consideration.

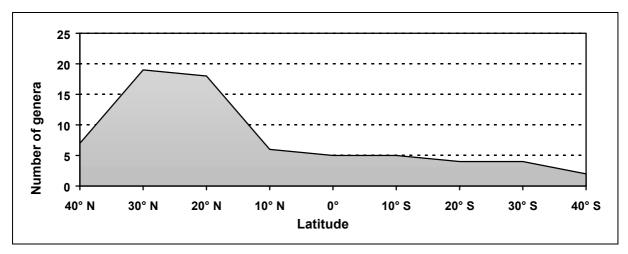


Figure 9.7: Diversity of Late Cretaceous larger foraminifera related to the latitude

The diagram in figure 9.7 clearly shows that the diversity of Late Cretaceous larger foraminifera is highest in the northern hemisphere between 20° and 30° North. In this region about 76 % of the analyzed genera occur. The diversity strongly decreases towards the north but also towards the equator. On the southern hemisphere the diversity is only a fourth of this value.

These patterns of Late Cretaceous diversity are strikingly different from the modern pattern of diversity of shallow-water organisms (larger foraminifera, mangroves and hermatypic corals, see Figures 7.2-7.4), where the diversity peak is situated at the equator and decreases towards the poles. The reason for the modern diversity pattern can be found in the sea surface temperature, which is analoguous to this pattern (see Figure 7.6). The difference in the Cretaceous diversity pattern shows that the temperature is not the only constraint for the diversity. In the Late Cretaceous the solar irradiation was also highest at the equator like today, but the temperature does not correlate with the diversity pattern.

As a consequence, the larger foraminifera, which are restricted to warm water, show a higher occurrence towards the equator. Higher temperatures also increase the mutation rates, which are responsible for speciation and thus diversity. The peak in the Late Cretaceous record is not quite consistent, which is probably due to the availability of habitats.

The approach of illustrating the diversity related to the faunal provinces shows a distinctly different pattern. While in the Late Cretaceous the highest diversity of larger foraminifera can be found in the European area, the center of diversity today is situated in the Indopacific region (compare Chapter 7 "Diversity pattern"). The reasons for this displacement can be found in an assessment of the features, which are responsible for the creation of high diversity regions.

In modern oceans the available habitats, with shallow warm water, are largest in the Indopacific Region. This area is characterized by a huge shelf region with the highest percentage of reefs in the world (Figure 7.5), which implies a high number of different habitats. By contrast, in the Late Cretaceous the European Tethys contained the most reefs. Numerous islands interrupted the huge shelf region, which provided a variety of habitats. In addition, in the modern Indopacific as well as in the Cretaceous European Tethys, the water temperatures remain high throughout the year. The solar insolation warms up the shallow shelf regions, while warm surface currents bring in warm water. These facts support a high genetic mutation rate, which increases the biodiversity.

10 Conclusions

The analysis of the biogeographic distribution of 25 genera of Late Cretaceous (Santonian-Maastrichtian) larger symbiont-bearing foraminifera led to following conclusions:

1) Distribution pattern:

The taxa show different distribution patterns, reaching from local to global. These patterns are distinguishable by their geographical size and were categorized in

- a) regional,
- b) superregional, and
- c) circumtropical units.

The extension of these units is due to the ecological constraints required by the larger foraminifera. Regional taxa are very specialized in temperature, nutrients and habitat, while superregional taxa are restricted by the availability of stepping stones and temperature. Circumtropical genera are mainly limited in their distribution by temperature. This leads to the conclusion, that temperature and ocean currents are the main factors that regulate the distribution.

The comparison to the biogeographic distribution patterns of modern larger foraminifera shows similar patterns and the classification into three different biogeographic units is possible. A distinct feature in this comparison is that the latitudinal extension of the Late Cretaceous larger foraminifera is much wider to the North and to the South. While today the extension reaches 35° North and 35° South, in the time slice under consideration the foraminiferal distribution is between 45° North and 40° South. This can be explained by the much warmer sea surface temperatures in the Late Cretaceous. Another factor is the Cretaceous paleogeography. In the Late Cretaceous most of the shelf regions existed on the northern hemisphere, especially in the European-North African Tethys.

2) Faunal Provinces:

Based on the biogeographic distribution of the foraminiferal genera four Faunal Provinces (FP) could be established:

- a) Caribbean FP,
- b) Asian FP,
- c) European FP, and
- d) African FP.

These bioprovinces are characterized by the presence and absence of certain genera. In the Tertiary three Faunal Provinces existed, which show nearly the same extensions, while modern larger foraminifera can be allocated to four Faunal Provinces that are distinctly different.

3) <u>Diversity</u>:

The diversity of the Cretaceous larger foraminifera in the several Faunal Provinces can be expressed in percentage of all analyzed genera:

- a) European Faunal Province (EFP): 84 %
- b) African Faunal Province (AFP): 48 %
- c) Caribbean Faunal Province (CFP): 36 %
- d) Asian Faunal Province (ASP): 24 %

The diversity maximum of Late Cretaceous larger foraminifera is situated in the northern hemisphere in the European Faunal Province. In the African Faunal Province, the diversity is nearly half from the EFP, but still much higher than in the Caribbean Faunal Province. The lowest diversity is in the Asian Faunal Province, where the diversity is nearly a fourth of the diversity of the EFP. The diversity plotted against latitude shows a diversity peak between 20° and 30° North, where 76 % of all genera are present. The diversity in the northern hemisphere is three times higher than on the southern hemisphere. In modern larger foraminifera the diversity is situated in the Indopacific Region, which is situated near the modern equator.

4) <u>Causal Mechanisms</u>:

The question remains which mechanisms drive these diversity patterns and causes the changes in earth history. This cannot be elucidated completely, because many aspects are involved, which influence each other. Some of the main factors are:

- a) Temperature
- b) Sea surface currents
- c) Paleogeography

The largest shelf regions are situated on the northern hemisphere, in the European area. This correlates with the diversity maximum, which is situated in the EFP. The relation diversity/latitude supports this theory. The comparison of historical and modern patterns of biodiversity and Faunal Provinces shows that the driving mechanisms are the same through Earth History and can thus be used to solve geologic problems of the past.

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13 Appendix

13.1 Sampling Material

Messinia, SW-Peloponnes (Greece): 21.07.-28.07.2003

GRC03-01: Main entrance of Neo Castro, Pylos; Maastrichtian or Middle Eocene; Thin sections: GRC-01a, GRC-01b

GRC03-02: outcrop road Pylos - Methoni, rigth departure at "Club Paradiso"; shortly before crossing; Upper Eocene or Middle Eocene; Thin sections: GRC-02a, GRC-02b, GRC-13a, GRC-13b

GRC03-03: left road at crossing of GRC03-02; western side of Mont Ayios Nikolaos; left road at crossing at waste dump; Upper Cretaceous or Maastrichtian or Paleocene and Lower Eocene; Thin sections: GRC-03, GRC-12a, GRC-12b

GRC03-04: road Pylos - Methoni; right departure at "Club Paradiso" to "Paint Center"; outcrop directly at departure; Upper Eocene; Thin sections: GRC-04a, GRC-04b

GRC03-05: coast north of Methoni; south of island Kaliona; Upper Cretaceous; Thin sections: GRC-05a, GRC-05b

GRC03-06: road Methoni - Pylos; opposite of departure to Pidhasos and Kalithea; outcrop behind church; Maastrichtian or Middle Eocene; Thin sections: GRC-06-1a, GRC-06-1b

GRC03-07: hill south of Mont Ayios Nikolaos; same level as northern end of island north of

Kaliona; Upper Cretaceous or Maastrichtian; Thin sections: GRC-07a, GRC-07b

GRC03-08: east of GRC03-07; Maastrichtian; Thin sections: GRC-08-1a, GRC-08-1b

GRC03-09: east of GRC03-08; Maastrichtian or Middle Eocene

GRC03-10: eastern side of plateau south of Mont Ayios Nikolaos; acre at directly at fence; Middle Eocene

GRC03-11: south of Pylos; departure to hospital; way down to the coast, same level as waste dump; left side of road; Maastrichtian; Thin sections: GRC-11a, GRC-11b

Tremp, Catalonia (Spain): 29.09.-03.10.2003

ESP03-01: N 42°02'105", E 000°53'057"; Santonian

ESP03-02: N 42°01'908", E 000°53'005"; accuracy 44 m; Cénomanian, shallow platform; Thin sections: ESP-02a, ESP-02b

ESP03-03: N 42°01'991", E 000°53'015"; accuracy 7 m; Lower Santonian; Thin sections ESP03-04: N 42°02'020", E 000°53'029"; accuracy 18 m; Santonian; Thin sections: ESP-04a, ESP-04b ESP03-05: N 42°02'056", E 000°53'025"; accuracy 6 m; Santonian; Thin sections: ESP-05a, ESP03-06: N 42°02'231", E 000°53'063"; accuracy 30 m; Santonian ESP03-07: N 42°00'690", E 000°52'620"; accuracy 18 m; Eozän, Ilerdian; Thin sections: ESP-07a, ESP-07b ESP03-08: N 42°02'334", E 000°44'387"; accuracy 9 m; Santonian; Thin sections ESP03-09: Montsech; Santonian ESP03-10: N 42°12'826", E 000°53'438"; accuracy 4 m; Santonian ESP03-11: N 42°12'826", E 000°50'376"; accuracy 6 m; Lower Santonian ESP03-13: N 42°09'454", E 000°50'376"; accuracy 11 m; Eozän, Ilerdian ESP03-14: N 42°09'258", E 000°51'447"; Thin sections

<u>Material provided by Prof. Dr. Lukas Hottinger, Naturhistorisches Museum Basel,</u> Switzerland:

Marseille, La Pomme, Chaine de Regaiguas, France (88206a) Jamaica (99303a): Maastrichtian Haymana, Central-Anatolia (92530): Maastrichtian

13.2 Tables of the Genera

To keep the tables as short as possible, I have summarized some positions (Lithology + Facies), while other, which are not of utmost importance for this work were excluded (Citation, Formation, Station, Collection Déposée, Abundance), but can seen easily in the literature.

Spirocyclina

Publication	Genus	Species	Reference	Loc-No	Stratigraphic age	Country	Faunal Province	Illustration	Site
Bonte 1942	Spirocyclina	60 -7	%	42	Portlandian	RUS	EFP.	%	Russie
Bonte 1942	Spirocydina		%	39	Portlandian	PRI	EFP.	%	Portugal
Dalbiez 1958	Spirocyclina	infravalanginiensis	Schlumberger	31-	Portlandian	FRA	EFP	%	western Aguitaine
Dilley 1973	Spirocydina	sp.	Munier-Chalmas	%	Cenomanian-Santonian	%	EFP	%	southern Europe
Gendrot 1965	Spirocydina	choffati	%	31	Santonian	FRA	EFP	5(3)	Region des Martiques (Bouches-du-Rhone'
Gendrot 1965	Spirocydina	choffati	Munier-Chalmas	31	late Santonian	FRA	EFP	7(1-5)	Region des Martigues (Bouches-du-Rhone
Loeblich & Tappan 1988	Spirocydina	sp.	Munier-Chalmas	31	Santonian	FRA	EFP	%	France
Loeblich & Tappan 1988	Spirocydina	choffati	Munier-Chalmas	31	Santonian	FRA	EFP	113(5-8)	Les Martiques, Marseille, France
Marie unpubl.	Spirocydina	choffati	Munier-Chalmas	31	late Cretaceous	FRA	EFP	%	L'Étang de Berre
Marie unpubl.	Spirocyclina	choffati	Munier-Chalmas	31	late Cretaceous	FRA	EFP	%	Chemin de St. Pierre
Maync 1959	Spirocydina	choffati	Munier-Chalmas	31	Senonian	FRA	EFP	1(1-10)	Les Martiques (Étang de Berre, Étang de Caronte), near Marseill∢
Schlumberger & Choffat 1904	Spirocyclina	choffati		39-	Portlandian	PRI	EFP.	%	Çap d'Espichel, Almadena, Zavia
Schlumberger & Choffat 1904	Spirecyclina	choffati	Munier Chalmas	38	Infravalanginian	PRT	EFP.	%	near Luz Algarve
Schlumberger & Choffat 1904	Spirocyclina	choffati	Munier-Chalmas	31	Senorian	FRA	EFP	%	L'Étang de Berre
Schlumberger & Choffat 1904	Spirocyclina	choffati	Munier Chalmas	16	late Jurassic	DZA	AFP	%	Tiaret
Schlumberger & Choffat 1904	Spirecyclina	choffati	Munier-Chalmas	38-	Infravalanginian	PRT	EFP.	9(5-7)	Chameca
Schlumberger & Choffat 1904	Spirocyclina	choffati	Munier Chalmas	39-	Portlandian	PRT	EFP.	9(8)	Çap d'Espichel
Schlumberger & Choffat 1904	Spirocyclina	choffati	Munier Chalmas	38	Infravalanginian	PRT	EFP	8(8) 8(8)	Sabugo
Schlumberger & Choffat 1904	Spirocyclina	choffati	Munier Chalmas	39-	Infravalanginian	PRT	EFP.	pl.10	Fortin de Quincho

Loftusia

Publication	Genus	Species	Reference	Loc-No	Stratigraphic age		Faunal Province	Illustration	Site
delghany 2003	Lottusia	morgani	Douvillé	23	late Campanian-Maastrichtian	OMN	AFP	fig.10;1,2 1(1,3)	northem Oman Mountains
mari& Sadek 1976	Loftusia	persica	Brady	27	Maastrichtian	IRQ	AFP	10.31	Geli Zinta, Northern Iraq
Omari & Sadek 1976	Loftusia	elongata	Cox	27	Maastrichtian	IRQ	AFP	1(2,4)	Geli Zinta, Northern Iraq
Omari & Sadek 1976	Loftusia	elongata	Cox	27	Maastrichtian			2(1)	Gebel Agra, Northern Iraq
	Loitusia			27				2(1)	
Omari& Sadek 1976		persica	Brady		Maastrichtian			2(2,4)	Geli Zinta, Northern Iraq
-Omari & Sadek 1976	Loftusia	persica	Brady	27	Maastrichtian		AFP	2(3)	Gebel Agra, Northern Iraq
-Omari & Sadek 1976	Loftusia	persica	Brady	27	Maastrichtian	IRQ	AFP	2(5) 77(1-5), 78, 79(1-5), 80(1-4)-	Geli Zinta, Northern Iraq
arpenter & Brady 1869	Lottusia	89-	n.gen.	56.	lower Tertiary	IRN	EEP	77(1.5) 78 79(1.5) 80(1.4)	Kellapdun Pass near Du Pulun, Bakhtiyari Mountains: Lat. 32"N. Long 50"30E
x 1937	Loftusia	persica	Brady	*	early Maastrichtian	%	%		renapear nace, not but han, bank jan moantang bank op n, borg oo oo
ox 1937			Diady	20 36			96	70	20
	Loftusia	morgani	76	%	late Maastrichtian, Danian	%		%	76
x 1937	Loftusia	sp.	%	56	Maastrichtian		EFP	%	Kellapstun Pass, near do Pulan
ox 1937	Loftusia	sp.	%	56	%		EFP	%	Bakhatiari Country
x 1937	Loftusia	sp.	%	23	%	OMN	AFP	%	abal al Abvadh, near Yangul, in the Oman Peninsula
ox 1937	Loftusia	morgani	Douvillé	56	96	IRN	EFP	96	Gavara, in the Province of Kirmanshah
ox 1937	Loftusia	elongata		56	n n n n n n n n n n n n n n n n n n n		EFP	or of the second	Gavera, in the Province of Kirmanshah
			Cox	50	70			70	
ox 1937	Loftusia	persica	Brady	56	late Cretaceous		EFP	%	North-eastern slope of the Kuhi-Sarab anticline, Bakhtiari Country
ox1937	Loftusia	elongata	%	56	%		EFP	%	southern slope of the Kuh-i-Sarab anticline, Bakhtiari Country
ox 1937	Loftusia	minor	%	56	%	IRN	FFP	%	southern slope of the Kuh-i-Sarab anticline. Bakhtiari Country
ox 1937	Loftusia	harrisoni	96	56	96		EFP	96	southern stope of the Kuh-i-Sarab anticline, Bakhtiari Country
ox 1937	Loftusia	elongata	w.		late Cretaceous		EFP	or.	Kuhi-Abadh, Bakhtari Country
			70	56	nale cretaceous			70	
ox 1937	Loftusia	sp.	%	56	%		EFP	%	Ausuna Sar Gach, Khurrumabad in Luristan
ox 1937	Loftusia	persica	Brady	56	%		EFP	33(1)	Bakhatiari Country
ox 1937	Lottusia	elongata	n.sp.	56	%	IRN	EFP	33(2); 35(1,2); txt-fig.4	Bakhatiari Country
ox 1937	Loftusia	morgani	Douvillé	56	%	IRN	FFP	33(3); 34(1,2)	Bakhatiari Country
ox 1937 ox 1937	Loftusia	minor	D.SQ.	56	e e		EFP	33(5); 36(1-3)	Bakhatiari Country
ox 1937 ox 1937	Loftusia	harrisoni		56	^^/		FFP	00(0), 00(1-0)	Bakhatan Country
			n.sp.		%			33(4); 36(4-6)	
awson 1879	Loflusia	columbiana	nsp	77	Garbon	CAN	*	6(1-7)	Marble Canon, British Columbia
lley 1973	Loftusia	sp.	Brady	%	Maastrichtian	%	EFP	%	southern Europe
uvillé 1904	Lottusia	persica	%	56	early Maastrichtian	IRN	EFP	%	Baktyaris
wvillé 1904	Loftusia	morgani	26	66	middle Lutetian		EEP.	96	Louristan
uvillé 1904	Loftusia		70	56	early Maastrichtian	IRN	EFP		
		persica	70					70	Louristan, 40 km à l'ouest du Kouh Mapeul, 60 km au sud-est de Kirmanchan
ouvillé 1904	Loftusia	morgani	%	56	late Maastichtian		EFP	%	Louristan, 40 km à l'ouest du Kouh Mapeul, 60 km au sud-est de Kirmanchan
eury et al. 1985	Lottusia	sp.	%	37	Maastrichtian		EFP	%	Yougoslavie
eury et al. 1985	Lottusia	sp.	%	36	Maastrichtian	GRC	EFP	%	Greece
eury et al. 1985	Loftusia	3P.	94	38	Maastrichtian		EFP	96	Turkey
				00			AFP	~	
euryetal. 1985	Loftusia	sp.	76	28	Maastrichtian			%	Syria
leury et al. 1985	Loftusia	sp.	%	27	Maastrichtian		AFP	%	Iraq
eury et al. 1985	Lottusia	sp.	%	56	Maastrichtian		EFP	%	l'an
leurv et al. 1985	Lottusia	so.	%	25	Maastrichtian	YEM	AFP	%	Yemen
eury et al. 1985	Loftusia	sp.	94	24	Maastrichtian		AFP	96	Qatar
leury et al. 1985	Loftusia	sp.	ŵ	25	Maastrichtian		AFP	õ	Somalia
			/0	20				<i>/</i> °	
leury et al. 1985	Loftusia	sp.	%	22	Maastrichtian	SAU	AFP	%	Saudi-Arabia
eury et al. 1990	Loftusia	sp.	%	36	Maastrichtian		EFP	PI., fig.a-e	Les Monts Valtou (= "massif du Gavrovo") Gavrovo-Tripolitza
eury et al. 1990	Loftusia	SD.	%	35	%	ITA	EFP	%	Italie méridionale: les monts Lépini
eurv et al. 1990	Loftusia	sp.	%	37	96		EFP	%	Yougoslavie septentionale
euryetal. 1990	Loftusia	sp.	l ő	38	ĩ		EFP	e contra	
	Lottusia	sh.	70	30	70		EFP	70	
eury et al. 1990		sp.	%	37	%			%	Serbie occidentale
sury et al. 1990	Loftusia	sp.	%	36	%		EFP	%	Grèce orientale
eury et al. 1990	Lottusia	sp.	%	38	%		EFP	%	Taurus oriental
sury et al. 1990	Loftusia	sp.	%	28	%	SYR	AFP	%	Syrie
survet al. 1990	Loftusia	sp.	, i i i i i i i i i i i i i i i i i i i	27	e e e e e e e e e e e e e e e e e e e		AFP	0×	l'ak
			20	56	76		FFP	70	
eury et al. 1990	Loftusia	sp.	%		%			%	l'an. Chaîne du Zagros
eury et al. 1990	Loftusia	sp.	%	24	96		AFP	%	Qatar
eury et al. 1990	Lottusia	sp.	%	25	%		AFP	%	Yémen
sury et al. 1990	Loftusia	sp.	%	26	%	SOM	AFP	%	Somalie
eury et al. 1990	Loftusia	op. sn	~	23	96		AFP	96	Oman
			~ ~	20	/0		EFP	~	
n 1996a	Loftusia	minor	%	38	Maastrichtian			76	Koyulhisar-Sivas
lantari 1976	Loftusia	cf. harrisoni	%	56	Maastrichtian		EFP	26(1)	Sarvestan area, SW Iran
lantari 1976	Loftusia	coxi	%	56	Maastrichtian		EFP	26(3,4)	Sarvestan area, SW Iran
lantari 1976	Loftusia	minor	Cox	56	Maastrichtian	IRN	EFP	27(16)	Sarvestan area, SW Iran
lantari 1976	Loftusia	cf, harrisoni	Cox	56	Maastrichtian	IRN	EFP	27(17)	Sarvestan area. SW Iran
lantari 1976	Loftusia	coxi	Henson	56	Maastrichtian		EFP	27(18)	Sarvestan area, SW Iran
eblich & Tappan 1988	Loftusia	sp.	Brady	56	Maastrichtian		EFP	%	l'an
sblich & Tappan 1988	Loftusia	so.	Brady	38	Maastrichtian	TUR	EFP	%	Turkey
sblich & Tappan 1988	Lottusia	ap.	Brady	47	Maastrichtian		ASP.	96	Sumatra
							EFP	446/8 40	
eblich & Tappan 1988	Loftusia	persica	Brady	55	Maastrichtian			116(8-10)	l'an
eric & Görmüs 2001	Loftusia	sp.	%	56	%		EFP	%	Iran
ric & Görmüs 2001	Loftusia	sp.		27		IRQ	AFP		l'ag

Spirocyclina

D. 1			(Multi-const Product	n
Publication	Loc-Bescr.	Association	Lithology and Facies	Remarks
Bonte 1912	% '	%	%	%
Bonte 1942	*	*	¥ 1	%
Dalbiez 1958	*	*	× 1	%
Dilley 1973	Table II	%	%	%
Gendrot 1965	Fig.1	%	Calcaire organogène	%
Gendrot 1965	Fig.1	%	%	%
Loeblich & Tappan 1988	Page109	96	96 1	96
Loeblich & Tappan 1988	Page 29	%	%	%
Marie unpubl.	%	%	96	%
Marie unpubl.	%	%	%	%
Mavne 1959	Page 38	%	% 1	%
Schlumberger & Choffat 1904	*	*	*	%
Schlumberger & Choffat 1904	* '	%	54 · · · · · · · · · · · · · · · · · · ·	×
Schlumberger & Choffat 1904	%	96	%	%
Schlumberger & Choffat 1904	* '	%	54 · · · · · · · · · · · · · · · · · · ·	1 %
Schlumberger & Choffat 1904	* '	×.	× 1	1 %
Schlumberger & Choffat 1904	*	%	*	¥-
Schlumberger & Choffat 1904	* '	×.	× ,	¥
Schlumberger & Choffat 1904	*	%	¥ 1	%

Loftusia

Publication	Loc-Descr	Association	Lithology and Facies	Remarks
bdelghany 2003	Fig. 1	Orbitoides, Omphalocyclus, Lepidorbitoides	limestone, pink limestone	%
Omari & Sadek 1976	Fig. 1	orbitotaes, ompratocyclus, Lepradratotaes	limestone	2000
Omari & Sadek 1976	Fig. 1	70	limestone	~
	Fig. 1	70		20
Omari & Sadek 1976	Fig. 1	%	limestone	26
-Omari & Sadek 1976	Fig. 1	%	limestone	96
-Omari & Sadek 1976	Fig. 1	%	limestone	%
-Omari & Sadek 1976	Fig. 1	%	limestone	%
arpenter & Brady 1969	*	*	hard, compact Limestone, soft calcareous mud, 90 100 fathoms	*
px 1937	%	%	96	%
ox 1937	%	%	%	96
x 1937	96	96	96	96
x 1937	~	20 0	~	~
x 1937	20	70	20	20
0x 1937 0x 1937	70	20	70	Core depth: 800 ft - 2230 ft
	70	Omphalocyclus, Orbitoides	76	
ox 1937	%	Omphalocyclus, Orbitoides	%	Core depth 2690 ft - 3040 ft
ox 1937	%	%	96	%
ox 1937	%	%	96	Core depth 400 ft
ox 1937	%	%	%	Core depth: 550 tt
ox 1937	%	%	96	Core depth 550 tt
ox 1937		96	Sector Se	darunter. L. persica, L. elongata
ox 1937	e e e e e e e e e e e e e e e e e e e	n n n n n n n n n n n n n n n n n n n	ar an	A CONTRACT OF A CONTRACT
ox 1937 ox 1937	70	70	~	Zup : Illussing on
	70	70	~	Syn.: Alveolina sp.
ox 1937	%	%	76	Syn.: Loftusia persica (pars)
ox 1937	%	%	%	Syn.: Alveolina morgani
iox 1937	%	%	%	%
ox 1937	%	%	%	%
awson 1879	*	¥.	<u> </u>	**
iley 1973	Table 2	96		
ouvillé 1904	%			
ouvilé 1904	×	l õ	~	
ouvillé 1904	*	**	**	
	%	70	1	20
ouvillé 1904		Omphalocyclus	%	%
leury et al. 1985	Fig. 4	%	%	%
leury et al. 1985	Fig. 4	%	%	%
leury et al. 1985	Fig. 4	%	%	%
leuryet al. 1985	Fig. 4	96	96	96
leury et al. 1985	Fig. 4	96	96	%
leury et al. 1985	Fig. 4	e contra	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	a contraction of the second
leury et al. 1985	Fig. 4	No N		~
icuryetal. 1303	F 19. 4	76	70	70
leury et al. 1985	Fig. 4	20	100 No.	20
leury et al. 1985	Fig. 4	%	%	%
leuryet al. 1985	Fig. 4	%	%	%
leury et al. 1990	%	%	%	%
leury et al. 1990	%	%	96	96
leuryet al. 1990	%	%	%	1 %
eury et al. 1990	%	96	96	86
euryet al. 1990				96
euryet al. 1990	~	N 01	10 07	200 200
	76	76	20	70 m
eury et al. 1990	76	76	*	26
euryetal. 1990	%	%	96	%
eury et al. 1990	%	%	96	96
euryet al. 1990	%	%	%	%
euryet al. 1990	%	%	96	96
eury et al. 1990	%	%	96	
euryet al. 1990 euryet al. 1990	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	// · · · · · · · · · · · · · · · · · ·	70 07	~
euryetal. 1990 euryetal. 1990	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	**************************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	76	76	76	76
an 1996a	Fig. 1	%	dayey limestone	
alantari 1976	Fig. 1	Omphalocyclus macroporus	fossiliferous limestone	Loftusia minor and harrisoni zone
alantari 1976	Fig. 1	%	crystalline limestone	Loftusia minor and harrisoni zone
alantari 1976	Fig. 1	%	96	Loftusia minor and harrisoni zone
alantari 1976	Fig. 1	%	96	Loftusia minor and harrisoni zone
alantari 1976	Fig. 1	%		Loftusia minor and harrisoni zone
eblich & Tappan 1988	11g.1 %	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Londesa minor and handon zone %
		76	70	20
eblich & Tappan 1988	%	¥6		100 No.
eblich & Tappan 1988	%	*		*
beblich & Tappan 1988	%	%	%	%
eric & Görmüs 2001	%	%	%	%
eric & Görmüs 2001	%	96	96	

Meric & Görmüs 2001	Lottusia	lee.		lan		%	TUR	EFP	1	%	Turkey
Meric & Gomius 2001 Meric & Gömüs 2001	Loitusia	sp.	70 96	30		%	SYR	AFP		70 %	Syria
Meric & Görnüs 2001	Loftusia	sp. sp.	°,	28 24		%	QAT	AFP		%	Gatar
Meric & Görmüs 2001	Lottusia	sp.	%	23		%	OMN	AFP		%	Oman
Meric & Görmüs 2001	Loftusia	sp.	%	22		%	SAU	AFP		%	Saudi Arabia
Meric & Görnüs 2001	Loftusia	sp.	96	22 36 37		%	GRC	EFP		%	Greece
Meric & Görmüs 2001	Loftusia	sp.	%			%	YUG	EFP		%	Yugoslavia
Meric & Görmüs 2001	Loftusia	sp.	%	35		%	ITA	EFP		%	haly
Meric & Görmüs 2001	Loftusia	sp.	%	38		%	TUR	EFP		%	Van (Kürzot, Gevas); Bolu (Sirnak, Göynük); Tokat (Resadiye)
Meric & Görmüs 2001	Loftusia	sp.	%	38		%	TUR	EFP		%	Ankara (Haymana); Antalya (Elmali, Korkuteli, Samandag), Sivas (Gürün, Koyulhisar)
Meric & Görmüs 2001 Meric & Görmüs 2001	Loftusia Loftusia	sp.	*	38 38		%	TUR TUR	EFP		%	Malatya (Hekimhan, Darende), Adiyaman (Kahta, Celikhan, Besni) K. Maras (Osmaniye, Pazarcik); Elazig area
Meric & Görmüs 2001	Loftusia	sp. sp.	76	38		7o 9/.	TUR	EFP EFP		76 94	k, maras (osmaniye, Pazarcik), Elazig area Siirt (Selmo, Malabadi, Batman, Sason, Kozluk); Nigde (Ulukisla)
Meric & Gormüs 2001 Meric & Görmüs 2001	Loftusia	sp.	20 96	56		70 %	IRN	EFP		%	Kermanshah, Khurramabad, Bakhtiari, Shiraz, Darab, Sarvestan, Laristan
Meric & Görnüs 2001	Loftusia	sp.	96	56 27		%	IRQ	AFP		%	lag: Aga Formation, upper Maastrichtian, northern part of Irag
Meric & Görmüs 2001	Loftusia	sp.	%	28		%	SYR	AFP		%	Syria: Near Leyla in North East Syria
Meric & Görmüs 2001	Lottusia	sp.	%	24		%	QAT	AFP		%	Qatar: Dukhan
Meric & Görmüs 2001	Loftusia	sp.	%	23		%	OMN	AFP		%	Oman: Jabal-al-Abyadh and Jabal-al-Milah (Wadi Sharm) areas
Meric & Görmüs 2001	Loftusia	sp.	%	23 22 36		%	SAU	AFP		%	Saudi Arabia: Aruma Formation east of Riyadh; central Saudi Arabia
Meric & Görmüs 2001	Loftusia	sp.	%	36		%	GRC	EFP		%	Greece: southern Ionnina of Greece
Meric & Görmüs 2001	Loftusia	sp.	%	37		%	YUG	EFP		%	E Yugoslavia; Kravaricke Reke in Pozega Basin of Serbia
Meric & Görmüs 2001	Loftusia	sp.	%	37		%	YUG	EFP		%	Fruska Gora (near Sremska Mitrovica), Cucevo (near Loznica)
Meric & Görnüs 2001	Loftusia	sp.	%	60 35		%	MKD	EFP EFP		%	Stip (eastern Macedonia)
Meric & Görmüs 2001 Meric & Görmüs 2001	Loftusia Loftusia	sp. anatolica	% Meric	35	late Maastrichtian	%	ITA TUR	EFP	1(1-4,6,7)	%	Italy, southeast of Rome Eski Kahta-Adiyaman
Meric & Gormüs 2001	Loftusia	anatolica	Meric	38	late Maastrichtian		TUR	EFP	1(5)		Esa Kanda-Auganian Ankara, Turkey
Meric & Gornus 2001 Meric & Görnüs 2001	Loftusia	anatolica	Meric		late Maastrichtian		GRC	FFD	1(8)		A licata, i ulicey Southern Joannina, Greece
Meric & Görnüs 2001	Loftusia	arabica	El-Asa'ad	22	early Maastrichtian		SAU	EFP AFP	2(1-10)		central Saudi Arabia
Meric & Görmüs 2001	Loftusia	bavkali	Meric	36 22 38 24 38	late Maastrichtian		TUR	EFP	3(1-7)		Cortinek-Adiyaman
Meric & Görmüs 2001	Loftusia	coxi	Henson	24	middle Maastrichtian		QAT	AFP	3(8,9)		Q atar
Meric & Görnüs 2001	Loftusia	elongata	Cox	38	middle Maastrichtian		TUR	EFP	3(10,11)		Eski Kahta-Adiyaman
Meric & Görmüs 2001	Loftusia	elongata	Cox	56 27	middle Maastrichtian		IRN	EFP	3(12-14)		Kuh-i-Dalun, Bakhtiari County, Iran
Meric & Görmüs 2001	Loftusia	elongata	Cox	27	middle Maastrichtian		IRQ	AFP EFP	3(15)		Gebel Agra, northern Iraq
Meric & Görmüs 2001	Loftusia	elongata	Cox	38	middle Maastrichtian		TUR	EFP	4(1-7)		Eski Kahta-Adiyaman
Meric & Görmüs 2001	Loftusia	elongata	Cox	56	middle Maastrichtian		IRN	EFP	5(1,4)		Kuh-i-Dalun, Bakhtiari County, Iran
Meric & Görnüs 2001	Loftusia	elongata	Cox Cox	38 56 38 56	middle Maastrichtian		TUR	EFP EFP	5(2) 5(3,5)		Eski Kahta-Adiyaman
Meric & Görmüs 2001 Meric & Görmüs 2001	Loftusia Loftusia	elongata elongata	Cox	55	middle Maastrichtian middle Maastrichtian		IRN	EFP	5(3,5) 6(1)		West of Darab, Laristan, Iran
Meric & Gomus 2001 Meric & Gömüs 2001	Lottusia	elongata	Cox	56 27 56 38 38 38 38 38	middle Maastrichtian		IRQ	EFP AFP	6(2,3)		iran Geli Zinta - northem Iraq
Meric & Görnüs 2001 Meric & Görnüs 2001	Loftusia	harrisoni	Cox	56	middle Maastrichtian		IRN	EFP	7(1-4)		Kuh-Isarib Baktilari County, Iran
Meric & Görmüs 2001	Loftusia	harrisoni	Cox	38	middle Maastrichtian		TUR	EFP EFP EFP	7(5-8,13)		Eski Kahta-Adiyaman
Meric & Görmüs 2001	Loftusia	harrisoni	Cox	38	middle Maastrichtian		TUR	EFP	7(9)		Selmo-Siirt, Turkey
Meric & Görmüs 2001	Loftusia	harrisoni	Cox	38	middle Maastrichtian		TUR	EFP	7(10-13)		Malabadi-Siirt, Turkey
Meric & Görmüs 2001	Loftusia	kahtaensis	Meric	38	late Maastrichtian		TUR	EFP	8(1,3,4)		Salik-Adiyaman, Turkey
Meric & Görmüs 2001	Loftusia	kahtaensis	Meric	38 38	late Maastrichtian		TUR	EFP	8(2)		Karadut-Adiyaman, Turkey
Meric & Görmüs 2001	Loftusia	ketini	Meric	38	middle Maastrichtian		TUR	EFP	8(5-9); 9(1-7)		Haymana-Ankara, Turkey
Meric & Görmüs 2001	Loftusia	matsumarui	Meric & Görmüs	38 56	middle Maastrichtian		TUR	EFP	9(8-13)		Eski Kahta-Adiyaman
Meric & Görmüs 2001	Loftusia	minor	Cox	56	middle Maastrichtian		IRN	EFP	10(1-4)		Kuh-i-Sarab, Bakhtiari County, Iran
Meric & Görmüs 2001	Loftusia	minor	Cox	56	middle Maastrichtian		IRN	EFP EFP	10(5-8)		Shiraz Region, Iran
Meric & Görmüs 2001 Meric & Görmüs 2001	Loftusia Loftusia	minor morgani	Cox Douvillé	38	middle Maastrichtian late Maastrichtian		TUR	EFP	11(1-9) 12(1,4-5)		Eski Kahta-Adiyaman North of Sar Qaleh, Qayad, Bakhtiari Country, Iran
Meric & Gomus 2001 Meric & Görmüs 2001	Loftusia	morgani	Douvillé	38 56 38	late Maastrichtian		TUR	EFP	12(2,3,8,9)		romons-a deren, dayad, bandar County, nan Cortines-Advanan
Meric & Görnüs 2001	Loftusia	morgani	Douvillé	38	late Maastrichtian		TUR	EFP	12(6-7)		Salik-Adiyaman, Turkey
Meric & Görnüs 2001	Loftusia	inccidentalis	Milovanovich	38 37 38	middle Maastrichtian		MIG	EFP EFP EFP	13(1-4)		Kravaricke Reke, Pozega Basin, Serbia, Yugoslavia
Meric & Görmüs 2001	Loftusia	oktavi	Meric	38	late Maastrichtian		TUR	EFP	13(5-7)		Salik-Adiyaman, Turkey
Meric & Görmüs 2001	Lottusia	oktayi	Meric	38	late Maastrichtian		TUR	EFP	13(8)		Karadut-Adiyaman, Turkey
Meric & Görmüs 2001	Loftusia	persica	Brady	38 56 56 27	middle Maastrichtian		IRN	EFP	13(9)		Kuh-i-Abbagh, Bakhtiari Country, Iran
Meric & Görmüs 2001	Loftusia	persica	Brady	56	middle Maastrichtian		IRN	EFP	13(10)		NE Slope, Kuh-i-Sarab, Bakhtiari Country, Iran
Meric & Görmüs 2001	Loftusia	persica	Brady	27	middle Maastrichtian		IRQ	AFP	13(11)		Geli Zinta - northem Iraq
Meric & Görmüs 2001	Loftusia	persica	Brady	56 27	middle Maastrichtian		IRN	EFP	14(1-3)		l'an
Meric & Görmüs 2001	Loftusia	persica	Brady	27	middle Maastrichtian		IRQ	AFP	14(4-6)		Geli Zinta - northem Iraq
Meric & Görnüs 2001	Loftusia	turcica	Meric & Avsar	38	middle Maastrichtian		TUR	EFP	15(1-9)		Seyh Katil-Elazig, Turkey
Meric & Görmüs 2001 Meric & Görmüs 2001	Loftusia Loftusia	spp. harrisoni	% Cox	38 56 38	middle Maastrichtian	70	TUR	EFP EFP	16(1) 16(2)		Pernezam, Zagros Selmo-Siirt, Turkey
Meric & Gornus 2001 Meric & Görnüs 2001	Loftusia	elongata	Cox	38	middle Maastrichtian		TUR	EFP	17(1)		Selmo-Siirt, Turkey
Meric & Gomus 2001 Meric & Gömüs 2001	Loftusia	minor	Cox	38	middle Maastrichtian		TUR	EFP	17(1)		Selmo-Siirt, Turkey
Meric & Görmüs 2001	Loftusia	elongata	Cox	38	middle Maastrichtian		TUR	EFP EFP	18(1)		Malabadi-Silit, Turkey
Meric & Görmüs 2001	Loftusia	harrisoni	Cox	38 38	middle Maastrichtian		TUR	EFP	18(1)		Malabadi-Siirt, Turkey
Meric & Görmüs 2001	Loftusia	sp.	%	38		%	TUR	EFP	18(1)		Malabadi-Siirt, Turkey
Meric & Görmüs 2001	Loftusia	elongata	Cox	38	middle Maastrichtian		TUR	EFP	18(2)		Malabadi-Siirt, Turkey
Meric et al. 2001	Loftusia	sp.	%			%		%		%	Midde East
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Meric et al. 2001 Meric et al. 2001	Loftusia Loftusia	sp. sp. sp. sp. sp. sp. sp. anatolica arabica bayk.dii coxi elongata elongata elongata harrisoni harrisoni	% % % % Meric El Asa'ad Meric Henson Cox Cox Cox Cox Cox Cox Cox Cox	60 62 36 38 27 56 28 24 23 38 22 38 22 38 22 38 24 56 38 24 56 38 27	early Maastrichtian late Maastrichtian middle Maastrichtian middle Maastrichtian middle Maastrichtian middle Maastrichtian middle Maastrichtian	% % %	HRV GRC TUR IRQ SYR QAT TUR SAU TUR IRN IRN IRQ IRN IRN	EFP EFP EFP AFP AFP AFP AFP EFP EFP EFP EFP EFP EFP EFP	3(13-16) 4(30-35) 4(15-16) 3(3,4) 3(5-7) 3(8) 4(21-23,25) 4(21-23,25)	% % % % %	Macedonia Crodia Greece Turkey Il Iraq SV fran-Zagnos SE Syria O man-Arabia E SI Kratta-Adiyaman Saudi Arabia Coffinek-Adiyaman Saudi Arabia Coffinek-Adiyaman Bakhtai and Laristan, Iran E SI Kratta-Adiyaman I Iraq E SI Kratta-Adiyaman Bakhtai Anta-Adiyaman I Iraq E SI Kratta-Adiyaman
Meric et al. 2001 Meric et al. 2001	Loftusia Loftusia	sp. sp. sp. sp. sp. sp. sp. arbolics arbolics arbolics arbolics elongeta elongeta elongeta harrisoni	% % % % Metic El Asa'ad Herison Cox Cox Cox Cox	60 62 36 38 27 56 28 24 23 38 22 38 22 38 22 38 24	early Maastrichtian late Maastrichtian middle Maastrichtian middle Maastrichtian middle Maastrichtian middle Maastrichtian	% % %	HRV GRC TUR IRQ IRN QAT OMN TUR SAU TUR SAU TUR IRN TUR TUR TUR	EFP EFP AFP AFP AFP EFP EFP EFP EFP EFP EFP EFP EFP	3(13-16) 4(30-35) 4(15-16) 3(3,4) 3(5-7) 3(8) 4(21-23,25)	% % % % %	Macedonia Crostia Greece Turkey Ni Irang Ski Yaha-Zagnos SE Syria Octar Anabia Octar Anabia Sand Anabia Sand Anabia Continok-Adiyaman Eakiriania and Laristan, Iran Eakir Kata-Adiyaman, Malabad-Siit, Selmo-Siit

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Meric et al. 2001	Loftusia	ketini	Meric	38	middle-late Maastrichtian	TUR	EFP	fig.4;5-10	Haymana; Yarpuz (Adana)
Meric et al. 2001	Loftusia	minor	Cox	56	middle Maastrichtian	IRN	EFP	3(17-19); 4(11,12)	Bakhtiari
Meric et al. 2001	Loftusia	minor	Cox	38	middle Maastrichtian	TUR	EFP	4(13,14)	Eski Kahta-Adiyaman
Meric et al. 2001	Loftusia	morgani	Douvillé	56	late Maastrichtian	IRN	AFP	3(20-21)	Bakhtiari-Iran
Meric et al. 2001	Loftusia	morgani	Douvillé	38	late Maastrichtian	TUR	EFP	3(22-24)	Salik-Adiyaman, Cörtinek-Adiyaman
Meric et al. 2001	Loftusia	occidentalis	Milovanovich	37	middle Maastrichtian	YUG	EFP	%	Belgrade
Meric et al. 2001	Loftusia	oktavi	Meric	38	late Maastrichtian	TUR	EFP	fig.4;26-29	Adiyaman, Siirt, Batman, Sirnak (SE Turkey); Yarpuz (Adana)
Meric et al. 2001	Loftusia	persica	Brady	56	middle Maastrichtian	IRN	EFP	3(1)	Bakhtiari-Iran
Meric et al. 2001	Loftusia	persica	Brady	27	middle Maastrichtian	IRQ	AFP	3(2)	N Ireq
Meric et al. 2001	Loftusia	turcica	Meric & Avsar	38	middle-late Maastrichtian	TUR	EFP	3(9-12), 4(17-20)	Elazig, Sivrice-Elazig
Meric et al. 1997	Loftusia	sp.	%	38	Maastrichtian	TUR	EFP	%	Sereflikochisar (Central Anatolia)
Özcan 1993	Loftusia	sp.	%	38	Maastrichtian	TUR	EFP	fig. 4e	north-east Kahta region
Özcan 1993	Lottusia	sp.	96	38	Maastrichtian	TUR	EFP	~ %	north-east Kahta region
Özcan 1993	Loftusia	sp.	%	38	Maastrichtian	TUR	EFP	%	north-east Kahta region
Özcan & Özkan-Altiner 1997	Lottusia	sp.	%	38	late Maastrichtian	TUR	EFP	%	SW of Haymana
Sartorio & Venturini 1988	Loftusia	sp.	%	56	Maastrichtian	IRN	EFP	p. 124	Parnezam, Zagros
Sartorio & Venturini 1988	Lottusia	sp.	96	25	Maastrichtian	YEM	AFP	p. 124	Ras Sharwayn, P.D.R. of Yemen
Sirel 1996	Loftusia	elongata	%	38	Maastrichtian	TUR	EFP	%	Haymana basin, S of Ankara
Sirel 1996	Lottusia	elongata	%	38	Maastrichtian	TUR	EFP	%	Dündarli area, SW of Kavseri, Central Turkey
Sirel 1996	Loftusia	sp.	%	38	Maastrichtian	TUR	EFP	%	Dündarli area, SW of Kayseri, Central Turkey
Sirel 1996	Lottusia	elongata	%	38	Maastrichtian	TUR	EFP	%	Pevamli hill, 8 km north of Dündarli town, SW of Kavseri
Sirel 1996	Loftusia	sp.	%	38	Maastrichtian	TUR	EFP	%	Demircilik village, N/V of Tecer mountains, S of Sivas, Central Turkey
Sirel 1996	Loftusia	so.	%	38	Maastrichtian	TUR	EFP	%	Hekimhan town, NW of Malatya, Eastern Turkey
Sirel 1996	Loftusia	sp.	%	38	Maastrichtian	TUR	EFP	%	Bozandere place, Ilgaz mountains, N of Cankin, Central Turke
Sirel 1996	Loftusia	sp.	%	38	late Maastrichtian	TUR	EFP	%	Koyulhisartown, NE of Sivas, Central Turkey

Cuneolina

Publication	Genus	Species	Reference	Loc-No Stratigraphic age	Country	Faunal Province	Illustration	Site
A Harithi 1986	Cuneolina	pavonia	Hencon	75 Turonium	LOR	EFD	4(19)	N-Jordanier, 32°26'38" N, 36°10'57" E.
V Harithi 1986	Guneolina	pavonia	Henson	75 Turonium	JOR-	EFP.	13(14)	N Jordanien, 32*26'38" N, 36*10'57* E
N-Omari & Sadek 1976	Cuneolina	cylindrica	Henson	27 Maastrichtian	IRQ	AFP	%	N Irea
Azema et al. 1979	Cuneolina	sp.	%	32 Senonian	ESP	FFP	36(2)	Siera del Escabezado (Prebetic)
zemalet al. 1979	Cuneolina	sp. ex. gr. C. pavonia	(d'Orbigny)	32 Senonian	ESP	FFP	37(1)	Siera del Buey (Prebetic)
Bignot 1972	Cuneolina	sp. cx. qr. c. payone	(u cholginy)	37 Sénonien	YUG	EFP	SI(I) %	Les environs de Skottje (au S de la faille de Divaca). Les mines de charbo
Bignot 1972	Cuneolina	gr. pavonia	96	37 Sénonien		EFP		Coupe du Mont Vreinscha, NE von Gorice
Bignot 1972	Cuneolina	sp.	ŵ.	37 Sénonien		EFP	a a	Coupe du Dutovije; N von Kreplje
Bignot 1972	Cuneolina	sp.	9 <u>6</u>	37 Sénonien		EFP	l vĩ	Coupe of Opicina; NW von Opicina
Bignot 1972	Cuneolina	sp.	96	37 Sénonien	YUG	EFP		Coupe de Vrabes, N von Grize
Bignot 1972	Cuneolina	sp.	ñ.	37 Sénonien		EFP	n n n n n n n n n n n n n n n n n n n	Coupe du Mont Trestij, SW von Gora
Bignot 1972	Cuneolina	cf. laurentii	Sart. & Cresc.	37 %		EFP		Le Nanos La Vipavska dolina et sa bordure septentrionak
Bignot 1972	Cuneolina	sp.	96	37 Sénonien		EFP	l x	Coupe de Materija
Bignot 1972	Cuneolina	50	96	37 Sénonien		EFP	a a a a a a a a a a a a a a a a a a a	Coupe de Podgrac
Bignot 1972	Cuneolina	gr. pavoria	sĩ.	37. Cénomanien		EFP.	sĩ sĩ	Coupe de Kade
Bignot 1972	Cuneolina	gr. pavoria	<u>s</u>	37. Cénomanien 37. Cénomanien	YUG	EFP	s.	Coupe de Merisce
Bignot 1972	Cuneolina	50	96	37 Sénonien	YUG	EFP	15(1)	entre Dutovlje et Kreplje
Bignot 1972	Cuneolina	pavonia parve	Henson	37 Sénonien		FFP	16(9)	entre Dutovlje et Kreplje
Bignot 1972	Cuneolina	sp.	96	37 Sénonien	YUG	EFP	16(10)	Mont Vremsica
Brönnimann 1954	Cuneolina	SD.	96	1 late Cretaceous	CUB	CFP	*	Cuba
Caus 1988	Cuneolina	sp.	%	32 Santonian	ESP	EFP		owner
Caus & Cornella 1983	Cuneolina	cylindrica	96	32 Santonien; 82-78 Ma	ESP	FFP	%	Sierra del Montsec, Sierras Marginales; sud-pyreneer
Caus & Comella 1983	Cuneolina	pavonia	96	32 Santon, Campan, Maastricht; 82-470 Ma	ESP	EFP	%	Sierra del Montsec, Sierras Marginales, sud-pyreneen
Ciry & Dupérier 1952	Cuneolina	pavonia	d'Orbigny	31- Cenomanian	ERA	EFP	*	Bidart Caseville
Dalbiez 1958	Cuneolina	hensoni	Dabiez	31- pre-Aptian Barremian and post Purbeckiar	FRA	EFP	1(1-6) 2(1-5)	wedern Aguitaine
Dalbiez 1958	Cuneolina	80.	96	31- Turonian	FRA	EFP	2(6)	St. Cyprien, Dordogne
de Cadro 1965	Cuneolina	pavonia parva	<u><u> </u></u>	35 middle late Cenomanian	ITA	EFP	16	Morte Calv, presso Garzano, provincia di Caserta
de Castro 1965	Cuneolina	pavonia parva	94	35 late Cenomanian	ITA	EFP	18.19	Cocuzzo die Palombi, presso Sacco, provincia di Salern
de Castro 1990	Cuneolina	sp.	%	35 early Maastrichtian (or late Campanian)	ITA	EFP	pls.33,34	Cava a Nord di Vitigliano, Lecce
Dilley 1973	Cuneolina	sp.	d'Orbigny	% Albian-Maastrichtian	%	CFP	%	N America, Central America
Dilley 1973	Cuneolina	5 90	d'Orbigny	% Albian-Maastrichtian	%	EFP	%	SEurope
Dilley 1973	Cuneolina	sp.	d'Orbigny	% Albian-Maastrichtian	%	AFP	%	N Africa, W Africa
Dilley 1973	Cuneolina	50. 50	d'Orbigny	% Albian-Maastrichtian	%	AFP	%	Middle East
Fleury et al. 1979	Cuneolina	gr. pavonia	d'Orbigny	36 Cènomanien early or middle	GRG-	EFP	*	sur la côte Nord Quest de Proti, Pelopornes
Fleury & Godfriaux 1974	Cuneolina	sp.	%	36 Maastrichtien	GRC	EFP	%	près du ravin du Xirolaki Olympou, Peloponnes
Gendrot 1965	Cuneolina	conica	%	34 Santonian	FRA	EFP.	5(2); 8(3)	Region des Martigues (Bouches du Rhone)
Gendrat 1965	Cuneolina	cylindrica	Henson	31 late Santonian	FRA	EFP	8(1)	Region des Martigues (Bouches-du-Rhone
Gendrot 1965	Cuneolina	pavonia var. angusta	Cushman	31 Santonian	FRA	EFP	8(2)	Region des Martigues (Bouches-du-Rhone
Gendrat 1965	Cuneolina	pavonia	Cushman	31 Santonian	FRA	EFP	8(4, 5)	Region des Martigues (Bouches-du-Rhone)
Gendrot 1965	Cuneolina	pavonia	Cushman	31 late Santonian		EFP	8(6)	Region des Martigues (Bouches-du-Rhone
Gendrat 1965	Cuneolina	sp.	96	31 %	FRA	EFP	8(20)	Region des Martigues (Bouches-du-Rhone
Gendrot 1965	Cuneolina	sp.	%	31 late Santonian	FRA	EFP	22(4)	Chemin de Saint-Pierre
Gendrat 1968	Cuneolina	sp.	%	31 Santonian	FRA	EFP	2(2); 3(1)	Étang de Berre
Gendrot 1968	Cuneolina	cylindrica	Henson	31 late Santonian	FRA	EFP	4(14)	Étang de Berre
Gendrot 1968	Cuneolina	pavonia var. angusta	Cushman	31 Santonian		EFP	4(15)	Étang de Berre
Gendrot 1968	Cuneolina	conica	d'Orbigny	31- Santonian	FRA	EFP	4(16)	Étang de Berre
Gendrot 1968	Cuneolina	pavonia	d'Orbigny	31 Santonian	FRA	EFP	4(17-19)	Étang de Berre
Gendrot 1968	Cuneolina	sp.	%	31 %	FRA	EFP	4(20)	Étang de Berre
Gischler et al. 1994	Cuneolina	sp.	%	32 late Santonian-early Campanian	ESP	EFP	40(1)	Basco-Cantrabrian and Iberian basins, N Spain
Gischler et al. 1994	Cuneolina	sp.	%	late Santonian-early Campanian	ESP	EFP	40(3)	Basco-Cantrabrian and Iberian basins, N Spain
Gusic & Jelaska 1990	Cuneolina	gr. pavoria	%	37 Campanian	YUG	EFP	13(3)	Island of Brac
Gusic et al. 1988	Cuneolina	pavonia	%	37 Cenomanian	YUG	EFP	*	Island of Brac
Gusic et al. 1988	Cuneolina	pavonia	%	37 early Senonian		EFP	%	Island of Brac
Gusic et al. 1988	Cuneolina	pavonia	%	37 Campanian		EFP	%	Island of Brac
∋usic et al. 1988	Cuneolina	sp.	%	37 Maastrichtian	YUG	EFP	2(11)	Island of Brac
lagn 1981	Guneolina	60.	%	33 Oberbarrême	DEU	EFP.	4(6)	S Bayer Säg a.d. Straße Gmund Bad Wiessee, ca. 2 km SW Gmund, NW Tegernsee
Hofker 1967	Cuneolina	pavonia	d'Orbigny	32 late Santonian	ESP	EFP	%	Palleresa River, Sierra de Montsech, Lérida
lottinger 1966	Cuneolina	ep-	*	32 Cenomanian Turonian?	ESP.	EFP	%	Sierra del Montese
lottinger 1966	Cuneolina		%	32 Cenomanian Turonian?	ESP	EFP	*	Sierra del Montees
		ketini	%	38 Maastrichtian	TUR	EFP		Koyuhisar-Siyas
	Cuneolina							
nan 1996a nan 1996b	Cuneolina Cuneolina	ketini	76 Inan	38 late Maastrichtian	TUR	EFP	%	Gölköyarea

Meric et al. 2001	96	%	96	96
Meric et al. 2001	96		96	
Meric et al. 2001	%	a <u>c</u>		
Meric et al. 2001	96			
Meric et al. 2001				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Meric et al. 2001	96	96	a.	
Meric et al. 2001		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Meric et al. 2001			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~
Meric et al. 2001	%			
Meric et al. 2001	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	~	~
Meric et al. 1997	/0 9/.		//0 //	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Özcan 1993	~ ~	Orbitoides, Siderolites, Omphalocyclus	friable rudistid sandy facies	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Özcan 1993	~	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Lepidorbitoide:		~
	70		sandy bioclastic carbonates	20
Özcan 1993	%	Orbitoides, Siderolites	marks and siltstones	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Omphalocyclus, Siderclites, Sirting, Hellenocyclina	friable limy sandstone and sandy limestone; shallow water	%
Sartorio & Venturini 1988	%	%	%	%
Sartorio & Venturini 1988	%	%	%	%
Sirel 1996	Fig. 1	Laffitteina, Siderolites, Hellenocyclina, Orbitoides, Sirtina	Sandstone, sandy limestone, argillaceous limestone	%
Sirel 1996	Fig. 1	Omphalocyclus, Siderolites, Hellenocyclina, Orbitoides, Laffittena	Sandy limestone, Marl, argillaceous limestone	96
Sirel 1996	Fig. 1	Omphalocyclus, Siderolites, Hellenocyclina, Orbitoides, Laffittena	Sandy limestone, Marl, argillaceous limestone	%
Sirel 1996	Fig. 1	Laffitteinia, Siderolites, Hellenocyclina, Orbitoides, Omphalocyclu:	limestone; shallow water	%
Sirel 1996	Fig. 1	Laffitteina, Omphalocyclus	limestone; shallow water	%
Sirel 1996	Fig. 1	Lafitteina	limestone; shallow water	%
Sirel 1996	Fig. 1	Lafitteina	limestone; shallow water	%
Sirel 1996	Fig. 1	Laffitteina	limestone; shallow water	%

Cuneolina

Publication	L on Dopper	Association	Litheleny and Fasica	Remarks
Publication Al Harithi 1986	Loc-Descr.	Association	Lithology and Facies 208-215m: Hornstein + Kalk: 215-220m: Kalk, mergelig: 220-233m: Mergel	Remarks
	*	*		
N Harithi 1986	*	%	208 215m: Hornstein + Kalk; 215 220m: Kalk, mergelig; 220 233m: Mergel	209.225 m
Al-Omari & Sadek 1976	Fig. 1	%	*	
Azema et al. 1979	%	96	Intrabiosparite (grainstone); Carbonate platform facies	%
Azema et al. 1979 Bignot 1972	%	Lacazina	Intrabiosparitic limestone (grainstone); carbonate platform facie:	%
Bignot 1972	Fig. 6,8,10	%	calcaires à Rudistes	%
Bignot 1972	Fig. 6	Rhapydionina	Calcaires gris sombre ou noirs	%
Bignot 1972	Fig. 17	Rhapydionina, Rhipidionina, Raadshoovenia	Calcaires sombres à Rudistes	%
Bignot 1972	Fig. 24	Raadshoovenia	Calcaire brun	%
Bignot 1972	Fig. 35	%	Calcaires gris sombre ou noirs	%
Bignot 1972	Fig. 39	%	Calcaires gris ou noirs	%
Bignot 1972	Fig. 48,49	%	calcaires gris à intercalations dolomitiques	%
Bignot 1972	Fig. 106	%	Calcaire brun à Rudistes	%
Bignot 1972	Fig. 109	%	Calcaire brun ou gris à Rudistes	96
Bignot 1972	Fig. 148	94.	Calcaires gris ou ross clair	96
Bignot 1972 Bignot 1972 Bignot 1972	Fig. 150	94	Calcaires blancs	94-
Bignot 1972	Fig. 17	Raadshoovenia	96	
Bignot 1972	Fig. 17	96		
Bignot 1972	Fig. 6	aŭ.		with the second s
Brönnimann 1954		Vaughanina, Sulcoperculina, Omphalocyclus	%	20 aufgearbeitetes Material
Caus 1988	%	vauquarina, succider curria, ompranocycus	carbonate platform, 40-60 m	autgearbeitetes Materiali %
Caus 1968 Caus & Comella 1983	%	Dictyopsella, Meandropsina, Siderolites, Orbitoides, Omphalocyclu	carbonate platform, 40-60 m %	%
	20		20	76
Caus & Comella 1983	~ ~	Dictyopsella, Meandropsina, Siderolites, Orbitoides, Omphalocyclus		2
Ciry & Dupérier 1952 Dalbiez 1958	*	*	<u>*</u>	~
	%	*	*	%
Dalbiez 1958	%	%	*	*
de Castro 1965	Fig. 1	Rhapydionina dubia	9%-	*
de Cadro 1965	Fig.1	Rhapydionina laurinensis		*
de Castro 1990	Page 14	Raadshoovenia, Orbitoide:	white limestone with micrite and some sparite,	%
			grain-supported (packstone-grainstone)	
Dilley 1973	Table 2	%	%	%
Dilley 1973	Table 2	%	%	%
Dilley 1973	Table 2	%	%	%
Dilley 1973	Table 2	%	%	%
Fleury et al. 1979	Saint Marc 1974	*	96-	94
Fleury & Godfriaux 1974	Page 151	Rhapydionina	calcaire gris, bleu ou blanc et de dolomie	%
	1 - 2		saccharoide bleu-clair à linéoles blanches	
Gendrot 1965	Fig.1	94.	Calcaire argileux organogène à fins cristaux de calcite	96
Gendrat 1965	Fig. 1	%		96
Gendrot 1965	Fig. 1	%	%	96
Gendrat 1965	Fig. 1	%	96	
Gendrat 1965	Fig. 1	%		
Gendrat 1965	Fig. 1			
Gendrot 1965	Fig. 1			~~
Gendrot 1968	Fig. 1,2	×0 %	Calcaire micritique	70 9(,
Gendrot 1968	Fig. 1,2 Fig. 1,2	70	Concerno mila inque	70 97
Gendrot 1968		10 07		200 V
	Fig. 1,2	76	76	20
Gendrat 1968	Fig. 1,2	*		
Gendrot 1968	Fig. 1,2	%		×.
Gendrot 1968	Fig. 1,2	%	%	%
Gischler et al. 1994	Fig. 1	96	grainstone; shallow marine carbonate ramp	
Gischler et al. 1994	Fig.1	%	grainstone; shallow marine carbonate ramp	
Gusic & Jelaska 1990	%	%	grainstone	keine genaue Lokalitäi
Gusic et al. 1988	Fig.1	%	9%-	%
Gusic et al. 1988	Fig. 1	Nummofallotia	%	%
Gusic et al. 1988	Fig. 1	%	wackestone; back-reef ("lagoon")	%
Gusic et al. 1988	Fig. 1	Rhapydionina	skeletal wackestone; restricted platform, shallow subtidal,	%
	-		probably with fresh-water (brackish) influence	
Hagn 1981	Page 177	%	Fossilschuttkaike, z.T. als Oobiosparil	*
Hofker 1967	Txt-Fig. 1	%	%	%
Hottinger 1966	Fig. 2	*	calcaires détritiques et des microbrèches	
Hottinger 1966	Fig. 2	94	26	<u>.</u>
Inan 1996a	Fig. 1	96	Limestone; Lagoon - Tida	70
Inan 1996b	Fig. 1	Orbitoides, Laffitteina	Lineatone, Lagour - rita	%
Inan 1996b	Fig. 1	Omphalocyclus, Lafifiteina, Loftusia	~	^^

Kalantari 1976	Guneolina	cf. pavonia		%	56- 56-	Genomanian	IRN .	EFP.	18		Sarvestan area, SW/Iran
Kalantari 1976	Cuncolina	sp.		%	56	Cenomanian	IRN	EFP.	22(4)		Sarvestan area, SWIran
Kalantari 1976	Guneolina	cf. pavonia	d'Orbigny		56-	Genomanian	IRN-	EFP.	22(5)		Sarvestan area, SWiran
Landrein et al. 2001	Cuneolina	sp.		%	36	late Campanian-Maastrichtian	GRC	EFP	6(c)		Greece
Loeblich & Tappan 1988	Guneolina		d'Orbigny		4,	Valanginian Conicacian	CHN	ASP-		*	China
Loeblich & Tappan 1988	Cuncolina	sp.	d'Orbigny		9,	Valanginian Conicacian	USA	GEP-		*	LSA
Loeblich & Tappan 1988	Cuncolina	6 0.	d'Orbigny		-9 ,	Valanginian Conicacian	Europe	EFP		%	Europe
Loeblich & Tappan 1988	Cuncolina	pavonia	d'Orbigny		31-	Cenomanian	FRA	EFP	155(1-3)		Île Madam, Dept. Charente Maritime, France
Luperto Sinni 1966	Cuneolina	laurentii	Sartoni & C	escenti	35	Aptian	ITA	EFP	3(3)		N "Capina S. Francesco"
uperto Sinni 1966	Cuncolina	laurentii	Sartoni & C	escenti	35	Albian?	HTA	EFP	3(4)		"Pianetli"
uperto Sinni 1966	Cuneolina	60.		%	35 35 35 35 35 35 35	Abian	HA HA	EFP	२८७ २८७ ६८७ २८७ २८७		"Paleos"
uperto Sinni 1966	Cuneolina			%	35	Albian	ITA	EEP	6(3)		"Reschitelao"
uperto Sinni 1966	Cuncolina	60-		%	35	early Cenomanian	ITA	EFP	7(3)		"Livello Sannisandro"
uperto Sinni 1966	Cuneolina	pavonia parvs	Henson		35	Cenomanian	ITA	EEP.	9(1)		"Meschia di Chianca"
uperto Sinni 1966	Cuneolina	pavonia parva	Hencon		35	Cenomanian	ITA	EEP	acci.		"La Difesa"
uperto Sinni 1968	Cuneolina	SD.	, ionoon	%	35	Senonian	ITA	EFP	0(1)	%	Kurge
uperto Sinni 1976	Cuneolina	50		%	35	Senorian	ITA	FFP	30(1-3,5,6)	<i>/v</i>	Masseria S. Teresa, Murge
uperto Sinni 1976	Cuneolina	ap.		90 97	25	Senonian	ITA	EFP	30(4)		Masseria della Crocetta, Murge
uperto Sinni & Ricchetti 1978	Cuneolina	sp.		%	35	Sentonian-Maastrichtian	ITA	FFP	46(1-11)		Massena Chicka, Multe
Meric & Coruh 1991	Cuneolina	sp. sp.		%	38	middle-late Maastrichtian	TUR	EFP	40(1-11)	ov.	cycolia Talainia NW Sint, SE Anatolia
Moreau et al. 1978	Cuneolina			94	31	middle late Cenomanian	FRA	EFP		- % - %	Charente Maritime
Moreauet al. 1976 Moreauet al. 1978		gr. conica pavonia		**	31		FRA	EFP.		% %	
Moreau et al. 1976 Moutvet al. 2003	Cuneolina	feuriausia laurentii		**		middle Cenomanian Albian early Cenomanian	SYR	AFP		**	Charente Marilime
	Cuneolina		Sartoni & C	escenti	28			AFP		**	Palmyrides
Mouty et al. 2003	Cuneolina	pavonia	d'Orbigny		28	Abian early Cenomaniar	SYR-			*	Palmyrides
Mouty et al. 2003	Cuneolina	pavonia		*	28- 28- 28-	Cenomanian	SYR-	AFP.		*	Palmyrides
Mouty et al. 2003	Cuneolina	pavonia		%	58	late-Cenomanian	SYR-	AEP		*	Palmyrides
Mouty et al. 2003	Cuneolina	pavonia		%	28	Turonian	SYR-	AFP		*	Palmyrides
Premoli Silva & Brusa 1981	Cuneolina	sp.		%	49	Campanian	KIR	CFP		%	Fole 315A, Line Islands
Premoli Silva & Brusa 1981	Cuncolina	sp.		*	67	Cenomanian mid Aptian	USA	GEP-		*	Site 171 (off Hawaii) and Isakov Guyot
Richter & Mariolakos 1976	Cuneolina	pavonia parva	Henson		36	Turon-Maastricht	GRC	EFP		%	Westflanke Skolis-Massiv, Peloponnes, Griechenlanc
Richter & Mariolakos 1976	Cuneolina	pavonia parve	Henson		36	Oberkreide	GRC	EFP		%	Westflanke Skolis-Massiv, Peloponnes, Griechenlanc
Rosales Dominguez et al. 1994	Cuneolina	60 -		*	3	Cenomaniano sup. Turoniano inf.	MEX	GEP-		*	Río Suchiaga, SE de Tuxta Outiónez
Rosales Dominguez et al. 1994	Cuncolina	sp.		%	3	Cenomaniano sup. Turoniano inf.	MEX	CEP.		*	Río Suchiaga, SE de Tuxta Gutiérrez
Rocales Dominguez et al. 1994	Cuneolina	60-		%	3	Cenomaniano sup. Turoniano inf.	MEX MEX	CEP.	1(8)		Río Suchiaza, SE de Tudia Guliérrez
Rosales Dominguez et al. 1994	Cuneolina	.		%	3	Cenomaniano sup. Turoniano inf.	MEX	CEP.		*	Río Suchiara, SE de Tudia Guliérrez
Rosales Dominquez et al. 1994	Cuneolina	sp.		%	3	. %	MEX	CFP		%	Río Suchiapa, SE de Tuxtla Gutiérrez
Rosales Dominquez et al. 1994	Cuneolina	sp.		%	3	%	MEX	CFP		%	Río Suchiana, SE de Tuxtla Gutiérrez
Rosales Dominguez et al. 1994	Cuneolina	sp.		%	3	%	MEX	CEP		%	Río Suchiaca, SE de Tuxta Gutiérez
Rosales Dominquez et al. 1994	Cuneolina	5D.		96	3	96	MEX	CFP		9 <u>6</u>	5/o Suchiana, SE de Tuxta Gutiérrez
Rocales Dominguez et al. 1994	Cuneolina	pavonia		94	3	Genomaniano sup. Turoniano inf.	MEX	CEP		%	hio Sudinga, SE de Tudia Outiónez
Rosales Dominguez et al. 1994	Cuneolina	pavonia		96 96	2	Cenomaniano sup. Turoniano inf.	MEX	CEP.			hio Sudarana, SE de Tuxila Culiónez
Rosales Dominguez et al. 1994	Cuneolina	pavonia		70 0/	2	Cenomaniano sup. Turoniano inf.	MEX	GEP.		** **	Fio Suchiara SE de Tuxta Cultónes
Rosales Dominguez et al. 1991	Cupeolina	Davonia		200 0/	6	Cenomaniano sup. Turoniano inf.	MEX	CEP		** 0/	No subraga, SE de Turla Guierter
Rosales Dominguez et al. 1994	Cuneolina	pavonia		%	e 2	oenomaniano sup. Turunano nn.	MEX	CEP		9 0	Prio sudinglaj se de Tuda Guieriez Río Sudinas. Se de Tuda Guiérez
Rosales Dominguez et al. 1994 Rosales Dominguez et al. 1994	Cuneolina	pavonia		76	3	76	MEX	CFP		76	Fio Suchiana, SE de Tuxta Gutiérrez
				76	3	76	MEX	CFP		76	
Rosales Dominguez et al. 1994	Cuneolina	pavonia		%	3	%	MEX	CFP	2(3)	%	Fío Suchiapa, SE de Tuxta Gutiérrez
Rosales Dominguez et al. 1994	Cuneolina	sp.		%	3	%			2(3)		Fio Sudhiapa, SE de Tuxtla Gutiérrez
Saint Marc 1973	Cuneolina	pavonia parva	Henson		54	Albian Cenomanian	LEB	AEP.		*	Uban
Sari & Özer 2002	Cuneolina	sp.		%	38	Santonian-Campanian	TUR	EFP		%	Yörükalan locality and Korkuteli-Fethiye road cut, 1.5 km W Kargaliköy
Sari & Özer 2002	Cuneolina	ap.		*	38	Cenomanian	TUR	EFP		*	Korkuteli Area (A/estern Taurides)
artorio & Venturini 1988	Cuneolina	pavonia	d'Orbigny		35	Cenomanian	ITA	EFP.	p.112		Caserta, Campania
Sartorio & Venturini 1988	Cuneolina	pavonia	d'Orbigny		35	early Senonian	ITA	EFP	p. 113		Cicerale 1 dir. well, Campania
Schlumberger 1899	Cuneolina	conica	d'Orbigny		31-	Senonian	FRA	EFP	8(8-10)		lle Madame
Schlumberger 1899	Cunsolina	conica	d'Orbigny		32	Santonian	ESP	EFP		*	Trago di Noguera
iun & Zhang 1983	Guneolina	pavonia	Henson, An	sary & Tewfik	73	Genomanian	CHN	ASP-		*	Karakorum Lhasa belt
Zambetakis Lekkas 1988	Cuneolina	sp.		*	36-	early Aptian	GRC-	EFP		*	Coupe de Chrissovitsi
ambetakis-Lekkas 1988	Cuneolina	sp.		%	36	late Santonian	GRC	EFP		%	Coupe de Chrissovitsi
ambetakis-Lekkas 1988	Cuneolina	sp.		%	36	late Maastrichtian	GRC	EFP		%	Coupe de Chrissovitsi
ambetakis-Lekkas 1988	Cuneolina	sp.		%	36	early Campanian	GRC	EFP		%	Coupe de Myticas-Angelokastro
ambetakis-Lekkas 1988	Cuneolina	sp.		%	36	late Campanian	GRC	EFP		%	Coupe de Myticas-Angelokastro
Zambetakis-Lekkas 1988	Cuneolina	sp. sp.		%	36	late Maastrichtian	GRC	EFP		ŵ	Coupe de Myticas-Angelokastro
ambetakis-Lekkas 1988	Cuneolina	ар. SD.		°č	36	late Campanian-early Maastrichtian	GRC	EFP		ñ	Coupe de Manenitsa
ambetakis-Lekkas 1988	Cuneolina	ap.		ov	20	late Maastrichtian	GRC	FFP		av av	Coupe de Kamenitas

Dictyopsella

Publication	Genus	Species	Reference	Loc No	Stratigraphic age	Country	Eaunal Province	Illus	stration	Site
		species	Reference	LOC NO			Faunai Province	IIIUs	station	
Barrier & Neumann 1959	Dictyopsella	sp.	%	31	Santonian	FRA	EFP		%	Cordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Barrier & Neumann 1959	Dictyopsella	sp.	%	31	Campanian	FRA	EFP		%	Cordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Barrier & Neumann 1959	Dictyopsella	sp.	%	31	Maastrichtian	FRA	EFP		%	Cordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Bignot & Neumann 1997	Dictyopsella	tenuissima	Reuss	30	Campanian	BEL	EFP		%	Folx-les-Caves, à l'est de Bruxelles
Bonte 1942	Dictyopsella	sp.	%	32	Santonian	ESP	EFP		%	Spain
Bonte 1942	Dictyopsella	sp.	%	39	Santonian	POR	EFP		%	Portugal
Caus 1988	Dictyopsella	sp.	%	32	Santonian, Campanian	ESP	EFP		%	Pyrenean Basin
Caus & Comella 1983	Dictyopsella	cuvillieri	%	32	Santonien; 82 78 Ma	ESP	EFP		%	Sierra del Montesec, Sierras Marginales
Caus & Comella 1983	Dictyopsella	kiliani	%	32	Santon, Campan, Maastricht; 82-<70 Ma	ESP	EFP		%	Sierra del Montsec, Sierras Marginales
Caus & Vicens 1984	Dictyopsella	sp.	%	32	late Santonian	ESP	EFP		%	La Trilla; Castell de Bac Grillera, Pirineos Catalanes
Caus & Vicens 1984	Dictyopsella	sp.	%	32	early Campanian	ESP	EFP		%	La Trilla; Castell de Bac Grillera, Pirineos Catalanes
Dilley 1973	Dictyopsells	sp.	Munier-Chalmas	%	Cenomanian-Santonian	%	%		%	Southern Europe, Middle East
Fleury et al. 1985	Dictyopsella	kiliani	Schlumberger	9,	Santonian-early Campanian	%	EFP		%	vestern Tethys
Gendrot 1965	Dictyopsella	kiliani	%	31	Santonian	FRA	EFP	5(4)		Region des Martigues (Bouches-du-Rhone)
Gendrot 1965	Dictyopsella	kiliani	%	31	Santonian	FRA	EFP	8(7-12)		Region des Martigues (Bouches-du-Rhone)
Gendrot 1965	Dictyopsells	cuvillieri	n.sp.	34-	late Santonian	FRA	EFP.	8(13-19)		Region des Martigues (Bouches du Rhone)
Gendrot 1965	Dictyopsella	kiliani	Schlumberger	34-	Coniacian	FRA	EFP	11(3)		L'Étang de Berre
Gendrot 1965	Dictyopsella	kiliani	%	31	%	FRA	EFP	20(2)		L'Étang de Berre
Gendrot 1968	Dictyopsella	sp.	%	31	Santonian	FRA	EFP	3(1)		L'Étang de Berre
Gendrot 1968	Dictyopsella	kiliani	Schlumberger	31	Santonian, Coniacian	FRA	EFP	5(1-5,12,13)		Région des Martiques (Bouches-du-Rhône)
Gendrot 1968	Dictyopsells	cuvillieri	n.sp.	34-	late Santonian	FRA	EFP	5(6-11)		Région des Martiques (Bouches du Rhône)
Gusic & Jelaska 1990	Dictyopsella	sp.	%	62	Campanian	HRV	EFP	13(2)		Island of Brac
Gusic & Jelaska 1990	Dictyopsella	ex gr. kiliani	Schlumberger	62	Campanian	HRV	EFP	14(2-3)		Island of Brac
Gusic et al. 1988	Dictyopsella	gr. kiliani	%	62	Campanian	HRV	EFP	2(8)		Island of Brac
Hofker 1966	Dictyopsella	tenuissima	%	57	Dano-Maestrichtian	NLD	EFP		%	E.N.C.J. quarry, Lichtenberg section
Hofker 1966	Dictyopsella	tenuissima	%	57	%	NLD	EFP		%	Kunrade-chaik
Hotker 1966	Dictynpsells	tenuissima	%	57	Dano-Maestrichtian	NID	FFP		%	Abert Canal, cutting of Caster and Vinenhover

Kalantari 1976	Fig. 1	84	sparry calcite cement, recrystallized limestone	Nezzazata & Dicyclina zone	
Galantari 1976	Fig. 1 Fig. 1	~	4/4/1/	Nezzazata & Dicyclina zone	
alantari 1976	Fig.1	* ~	94	Nezzazata & Dicyclina zone	
andrein et al. 2001	//w./ %	Rhapydionina	*	biozone à Murciella	
oeblich & Tappan 1988	×	Tri dapyolo ili na	×.	NOZONE A MUICIENA	
seblich & Tappan 1988			90 94		
oeblich & Tappan 1988	- ** %	*		76	
oeblich & Tappan 1988	-** -**		**	**	
uperto Sinni 1966		*	erganogenic limestone	*	
uperto Sinni 1966	** **	**	detrital limestone	**	
uperto Sinni 1966	**	*	detrital limestone	76	
uperto Sinni 1966	*	*			
uperto Sinni 1966	*	**	organogenic limestone detrital limestone	**	
uperto Sinni 1966	*	**			
	*	**	organogenic limestone	*	
uperto Sinni 1966	*	Wester All P. Differentin Directoria Difference Charles	micrite	~	
uperto Sinni 1968		Nummofallotia, Dictyopsella, Rhapydionina, Rhipidionina, Siderolites	white bedded Rudist limestone; neritic, shallow, temperate-warm	%	
uperto Sinni 1976	%	%		%	
uperto Sinni 1976	%	%	%	<u>%</u>	
	Fig. 1	%	%	%	
feric & Coruh 1991	Fig.1	Orbitoides, Omphalocyclus, Lepidorbitoides, Clypeorbis, Sulcoperculina, Sirtin	%	%	
foreau et al. 1978	*	%	%	%	
Moreau et al. 1978	%	%	%	%	
Moutyet al. 2003	Fig. 1	Dictyopsella cf. libanica, Pseudedomia vial	%	%	
Mouty et al. 2003	Fig.1	Dictyopsella of libanica, Pseudedomia vial	¥6	%	
Nouty et al. 2003	Fig.1	Pæudedomia viall	%	%	
Mouty et al. 2003	Fig.1	%	%	%	
Nouty et al. 2003	Fig.1	%	*	%	
Premoli Silva & Brusa 1981	Fig. 5	Globorotalia calcarata	96	Core 22	
Premoli Silva & Brusa 1981	Fig. 5	Orbitolina	%	%	
Richter & Mariolakos 1976	Page 598	%	%	%	
Richter & Mariolakos 1976	Page 600	Globotruncana sp.	%	%	
Rosales Dominguez et al. 1994	Page 30	%	mudstone	¥	
Rocales Dominguez et al. 1994	Page 30	%	wackedone	%	
Rosales Dominguez et al. 1994	Page-30	%	wackestone	%	
Rocales Dominguez et al. 1994	Page 30	%	wackedone	%	
Rosales Dominguez et al. 1994	Page 30	%	vackestone a packstone	%	
Rosales Dominguez et al. 1994	Page 30	%	vackestone a packstone	%	
Rosales Dominguez et al. 1994	Page 30	%	packstone parcialmente recristalizados	%	
Rosales Dominquez et al. 1994	Page 30	%	packstone parcialmente recristalizados	%	
Rocales Dominguez et al. 1994	Page 30	%	wackestone and losos	%	
Rosales Dominguez et al. 1994	Page 30	94	wackestone arcillosos	96	
Rocales Dominguez et al. 1994	Page 30	*	wackestone	%	
cosales Dominguez et al. 1994	Page 30	%	weckestone	96	
Rosales Dominquez et al. 1994	Page 30	%	vackestone a packstone	%	
Rosales Dominquez et al. 1994	Page 30	%	packstone parcialmente recristalizados	%	
Rosales Dominguez et al. 1994	Page 30	%	packstone parcialmente recristalizados		
Rosales Dominguez et al. 1994	Page 30	%	%	96	
Saint Marc 1973	- ugo oo	*	*	*	
Sari & Özer 2002	Fig. 1, 2	%	biomicritic, intramicritic and intrasparitic limestone; beneath hemipelagic	%	
Sari & Özer 2002	Fig. 1, 2	Pseudedomia	massively bedded limestones with rudist reef, marine open platform, rentic	×	
Sartorio & Venturini 1988		1 controloma	¥.		
Sartorio & Venturini 1988		Nummofallotia	96		
chlumberger 1899	%	Nummo Landita			
Schlumberger 1899		×.	e e e e e e e e e e e e e e e e e e e		
un & Zhang 1983	Fig.1				
ambetakis Lekkas 1988	Fig.1	94			
ambetakis-Lekkas 1988	Fig. 1		9		
ambetakis-Lekkas 1988	Fig. 1	26	70	70	
	Fig. 1	70 0/	70	76	
ambetakis-Lekkas 1988	Fig. 1	70 ~	70	76	
ambetakis-Lekkas 1988	Fig. 1	%	76	%	
	Fig. 1	%	%	%	
Zambetakis-Lekkas 1988 Zambetakis-Lekkas 1988 Zambetakis-Lekkas 1988	Fig. 1 Fig. 1	%	%	%	

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Barrier & Neumann 1959	%	Nummofallotia cretacea, Subalveolina dordonica	calcaires assez finement grumeleux	%
Barrier & Neumann 1959	%	Cuneolina, Nummofallotia cretacea, Siderolites	calcaires grumeleux plus ou moins gréseux et grossiers	%
Barrier & Neumann 1959	%	Nummofallotia cretacea, Siderolites, Orbitoides media	calcaires finement grumeleux	%
Bignot & Neumann 1997	%	Sirtina	conglomérat et tuffeau éponymes	96
Bonte 1942	%	%	%	%
Bonte 1942	%	%	%	%
Caus 1988	%	%	protected shelf with normal salinity, depth 0-60 m	%
Caus & Comella 1983	*	Cuneolina, Meandropsina	%	type species of Dictyopse/loides
Caus & Comella 1983	%	Cuneolina, Meandropsina, Siderolites, Orbitoides, Omphalocycus	%	%
Caus & Vicens 1984	%	Nummofallotia	alternancia de microconglomerados rojos y areniscas ocres con matriz limosa	Mächtigkeit konstant: 24 m
Caus & Vicens 1984	%	Nummofallotia	calizas margosas grises	Mächtigkeit: 10-25 m
Dilley 1973	Table 2	%	96	%
Fleury et al. 1985	Fig. 2	Nummofallotia	%	%
Gendrot 1965	Fig. 1	%	Calcaire organogène	%
Gendrot 1965	Fig. 1	%	96	96
Gendrat 1965	Fig. 1	%	×.	type species of Dictyopse/loides
Gendrot 1965	Fig.1	%	36	34-
Gendrot 1965	Fig. 1	%	%	%
Gendrot 1968	Fig. 1,2	Cuneolina	Calcaire micritique	%
Gendrot 1968	Fig. 1,2	%	%	%
Gendrot 1968	Fig. 1,2	%	*	typ species of Dictyop selloides
Gusic & Jelaska 1990	%	%	%	%
Gusic & Jelaska 1990	%	%	%	%
Gusic et al. 1988	Fig. 1	%	skeletal packstone/grainstone; peri-reefal	%
Hofker 1966	p.81;fig.51,1-7,fig. 52	%	%	%
Hofker 1966	%	%	96	96
Hofker 1966	p.84;fig.53,1-2,fig.95	%	%	%

Hofker 1966	Dictyopsells	tenuissima	%	57	Dano-Maestrichtian	NLD	EFP	%	Windhagen, north of Windhagen
	Dictyopsella	tenuissima	96	57	Dano-Maestrichtian	NLD	EFP	%	quarry Franssen-Nelissen
	Dictyopsella	tenuissima	%	57	Dano-Maestrichtian	NLD	EFP	%	de Tombe (37)
Hotker 1966	Dictyopsells	tenuissima	96	57	Dano-Maestrichtian	NLD	EFP	~	tRooth (38)
Hofker 1966	Dictyopsella	tenuissima	96	57	Dano-Maestrichtian	NLD	EFP	No.	E.N.C.I. quarry, Lichtenberg section (39)
Hofker 1966	Dictyopsella	tenuissima	~	57	Dano-Maestrichtian	NLD	EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Well Fortress St. Pieter, drill-hole G B. 194 (40)
		tenuissima	20 07	57	Dano-Maestrichtian	NLD	EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	Dictyopsells		70	57				70	quarry van der Zwaan (41)
	Dictyopsella	tenuissima	%		Dano-Maestrichtian	NLD	EFP	%	quarry Curfs (44)
	Dictyopsella	tenuissima	%	57	Dano-Maestrichtian	NLD	EFP	%	Keerderberg (45)
	Dictyopsella	tenuissima	%	30	Dano-Maestrichtian	BEL	EFP	%	Albert Canal, cutting of Vroenhoven, Belgium (48)
Hofker 1966	Dictyopsella	tenuissima	%	57	Dano-Maestrichtian	NLD	EFP	%	nine shaft Maurits III (49)
Hofker 1966	Dictyopsella	tenuissima	%	57	Dano-Maestrichtian	NLD	EFP	%	nine shaft Maurits III (56)
	Dictyopsella	tenuissima	%	57	Dano-Maestrichtian	NLD	EFP	%	Welterberg, well I and well II (58)
	Dictyopsella	tenuissima	96	57	Dano-Maestrichtian	NLD	EFP	%	shaft I + II. State mine Emma (62)
Hofker 1966	Dictyopsella	tenuissima	96	57	Dano-Maestrichtian	NLD	EFP	N.	drill-hole Heisterbrug, S.M. XVIII (63)
Hofker 1967	Dictyopsella	tenuissima	(Reuss)	32	late Santonian	ESP	EFP	× ×	Palleresa River, Sierra de Montsech, Lérida
Hottinger 1966		chalmasi		22	Santonian?	ESP	FFP	%	Route Balaquer-Tremp, Sierra de Montsech
	Dictyopsella		Schlumberger	32		ESP	FFP	70	
Hottinger 1966	Dictyopsella	?kiliani	Schlumberger	32	Santonian?		EFP	%	Route Balaguer-Tremp, Sierra de Montsech
Hottinger 1997	Dictyopsella	sp.	96	10	Santonian-Conjacian	%	%	%	Tethys
Hottinger 1997	Dictyopsella	@.	*	5÷	Genomanian	%	%	*	Jethys
Loeblich & Tappan 1985	Dictyopeella	charentensis	n.sp.	31-	Cenomanian	FRA	EFP	1(9 11) 2(1 9)	le Madame (Charente Maritime)
	Dictyopsella	hofkeri	n.sp.	31	Maastrichtian	FRA	EFP	3(1,3-5,8,9)	St. Palais, Royan (Charente-Maritime)
Loeblich & Tappan 1985	Dictyopsella	hofkeri	n.sp.	31	Maastrichtian	FRA	EFP	3(2,6,7,10)	Plage de Vallieres, Royan (Charente-Maritime)
	Dictyopsella	kiliani	Munier-Chalmas	32	early Santonian	ESP	EFP	4(1-7)	between Lerida and Valdaran. Lerida Province
Loeblich & Tappan 1985	Dictyopsella	muretae	Hottinger	32	late Santonian	ESP	EFP	511-51	NE of Trago di Noguera, Province Lerida
Loeblich & Tappan 1988	Dictyopsella	sp.	Munier-Chalmas	31	Cenomanian-Maastrichtian	FRA	EFP	****	France
Loeblich & Tappan 1988	Dictyopsella	sp.	Munier-Chalmas	32	Cenomanian-Maastrichtian	ESP	EFP	ov.	Sain
		sp. kiliani	Munier-Chalmas	32	early Santonian	ESP	EFP	158(5-7), 159(1-3)	
Loeblich & Tappan 1988	Dictyopsells			32		ESP	EFP		Lerida Prov., Spain
Loeblich & Tappan 1988	Dictyopsella	muretae	Hottinger	32	late Santonian			159(4)	Lerida Prov., Spain
	Dictyopsella	kiliani	%	35	Coniacian-Santonian	ITA	EFP	%	Pulo di Attamura, Murge
Luperto Sinni 1968	Dictyopsella	kiliani	Munier-Chalmas	35	Senonian	ITA	EFP	%	Murge
	Dictyopsella	kiliani	Schlumberger	35	Santonian	ITA	EFP	32(1-7)	Masseria della Crocetta, Murge
Luperto Sinni 1976	Dictyopsells	cuvillieri	Gendrot	35	Santonian	ITA	EFP.	32(8 13)	Masseria della Crocetta, Murge
Luperto Sinni & Ricchetti 1978	Dictyopsella	kiliani	Schlumberger	35	late Santonian	ITA	EFP	46(12,13,15-17)	Specchia Tarantina, SE Murgia near Martina Franco (Taranto); Lat. 40°37'24", Long. 4°52'14'
Luperto Sinni & Ricchetti 1978	Dictyopsells	cuvillieri	Gendrot	35	late Santonian	ITA	EFP	46(14)	Specchia Tarantina, SE Murgia near Martina Franco (Taranto), Lat. 40°37'24", Long. 4"52'14'
Marie	Dictyopeells	80-	94.	31	middle-Conician	FRA	EFP.	94	Foissac
	Dictyopsella	sp.	96	31	late Cretaceous	FRA	EFP	%	L'Étang de Berre
	Dictyopsella	sp.	~	24	late Cretaceous	FRA	EFP	~	Chemin de St Pierre
		sµ.	20	01	late Cretaceous	FRA	EFP	20	
	Dictyopsella	sµ. chalmasi	76 O abili ve basansa	31		FRA	FFP	70	L'Étang de Caronte
	Dictyopsella		Schlumberger		late Cretaceous			70	L'Étang de Berre
	Dictyopsella	chalmasi	Schlumberger	31	late Cretaceous	FRA	EFP	8	Chemin de St Pierre
	Dictyopsella	chalmasi	Schlumberger	31	late Cretaceous	FRA	EFP	8	L'Étang de Caronte
Marie	Dictyopsells	kiliani	Schlumberger	31	late Cretaceous	FRA	EFP	%	L'Étang de Berre
Marie	Dictyopsella	kiliani	Schlumberger	31	late Cretaceous	FRA	EFP	%	L'Étang de Caronte
Moreau et al. 1978	Dictyopsells		%	31-	middle Cenomanian	FRA	EFP.	1(14 16, 19 21)	le Madame (Charente Maritime)
	Dictyopsells	of, libanica	Saint Marc	28	Albian early Cenomanian	SYR	AFP	*	Palmyrides (central Syria)
	Dictyopaels	libanica	0.60	54	early Cenomanian	LEB	AEP	1(1 20) 2(1 25)	Aite of Fourkhâr, SE de Bevroutt
Janninaro toro	e la joposie		comp.	07	our, conomernar	and a		ICI EOT ECI EOT	
Schlumberger 1899	Dictyopsella	kiliani	Munier-Chalmas	32	Santonian	ESP	EFP	la caracterization de la construcción de la	
	In my opene								
	Distance			02				8(5,7); 11(20)	Trago di Noguera
Schlumberger 1899	Dictyopsella	chalmasi	Schlumberger	32	Santonian	ESP	EFP	8(5,7); 11(20) 8(4)	Trago di Noguera
Schlumberger 1899 Séronie-Vivien 1972	Dictyopsells	chalmasi sp.	Schlumberger %	32 31	Santonian Santonian	ESP	EFP		Trago di Noguera Jawezac
Schlumberger 1899 Séronie-Vivien 1972 Séronie-Vivien 1972	Dictyopsella Dictyopsella	chalmasi sp. kiliani		32 31 31	Santorian Santorian Santorian	ESP FRA FRA	EFP EFP EFP		Trago di Noguera Lanezac Saint Laurert-de-Cognac
Schlumberger 1899 Séronie-Wivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972	Dictyopsella Dictyopsella Dictyopsella	chalmasi sp. kiliani kiliani	Schlumberger %	32 31 31 31	Santonian Santonian Santonian Santonian	ESP FRA FRA FRA	EFP EFP EFP EFP		Trazo di Nouera Laverac Saint-Lavern-de-Cognec Merpina
Schlumberger 1899 Séronie-Wvien 1972 Séronie-Wvien 1972 Séronie-Wvien 1972 Séronie-Wvien 1972	Dictyopsella Dictyopsella Dictyopsella Dictyopsella	chalmasi sp. kiliani kiliani kiliani	Schlumberger %	32 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Santorian	ESP FRA FRA FRA FRA	EFP EFP EFP EFP EFP		Trago di Noquera La vrezac Saint-La vret - de-Cognac Ges Charriers Les Charriers
Schlumberger 1899 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972	Dictyopsella Dictyopsella Dictyopsella	<u>chalmasi</u> sp. kiliani kiliani kiliani kiliani	Schlumberger %	32 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Santorian Campanian	ESP FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP		Traco di Nouera Lavreza Saint-Lavren-de-Cognec Merpine Les Charriers Gimeux
Schlumberger 1899 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972	Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells	chalmasi sp. kiliani kiliani kiliani	Schlumberger %	32 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Santorian Campanian	ESP FRA FRA FRA FRA	EFP EFP EFP EFP EFP		Traco di Nouera Lavreza Saint-Lavren-de-Cognec Merpine Les Charriers Gimeux
Schumberger 1899 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972	Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella	chalmasi sp. kiliani kiliani kiliani kiliani kiliani	Schlumberger %	32 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Campanian Campanian	ESP FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP		Trago di Noquera . exercar: Saint-Laurent-de-Cognac Mergina Les Charters Gimeux Gimeux
Schlumberger 1899 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972	Didtyopselle Didtyopselle Didtyopselle Didtyopselle Didtyopselle Didtyopselle Didtyopselle Didtyopselle	chaimasi sp. killani killani killani killani killani killani	Schlumberger %	32 31 31 31 31 31 31 31 31 31	Santonian Santorian Santorian Santorian Santorian Campanian Campanian Campanian	ESP FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % %	Traco di Nouera
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Schlumberger 1899 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972 Séronie-Viven 1972	Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella	chalmasi sp. kilani kilani kilani kilani kilani teruissima kilani	Schlumberger %	32 31 31 31 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Campanian Campanian Campanian Maestirchian Maestirchian	ESP FRA FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % %	Traco di Noquera
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Schlumberger 1889 Skronie-Widen 1972 Skronie-Widen 1972 Skronie-Widen 1972 Skronie-Widen 1972 Skronie-Widen 1972 Skronie-Widen 1972 Skronie-Widen 1972 Skronie-Widen 1972 Skronie-Widen 1972 Skronie-Widen 1972	Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella Didyopsella	chalmssi app. kilani kilani kilani kilani kilani kilani teruissima kilani kilani kilani kilani	Schlumberger %	32 31 31 31 31 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Camparian Camparian Camparian Maestirchian Maestirchian Camparian Maestirchian Camparian	ESP FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % % % %	Traco di Noquera
Schlumberger 1898 Skrone-Wien 1972 Skrone-Wien 1972	Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella	chalmasi ap, kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani	Schlumberger %	32 31 31 31 31 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Camparian Camparian Camparian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian	ESP FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % % % %	Trajo di Noguera - savezac Sant-Lavert-de-Cognac Mergina Les Chartiers Omeux Sant-Lavert-de-Cognac Margina Les Chartiers Omeux Sant-Lavert-de-Cognac Margina Comeux Sant-Pais-Suivité Sant-Pais-Suivité Nabelers Aubelers Aubelers Lamérico Lamérico La Maison Neuve
Schlumberger 1888 Skronie-Wien 1972 Skronie-Wien 1972	Dictyopselle Dictyopselle Dictyopselle Dictyopselle Dictyopselle Dictyopselle Dictyopselle Dictyopselle Dictyopselle Dictyopselle Dictyopselle Dictyopselle Dictyopselle	chalmasi app. Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni	Schlumberger %	32 31 31 31 31 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Camparian Camparian Camparian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian	ESP FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % % % %	Traco di Noquera
Schlumberger 1888 Skronie-Wien 1972 Skronie-Wien 1972	Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella Dictyopsella	chalmasi ap, kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani	Schlumberger %	32 31 31 31 31 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Camparian Camparian Camparian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian	ESP FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % % % %	Trajo di Noguera - savezac Sant-Lavert-de-Cognac Mergina Les Chartiers Omeux Sant-Lavert-de-Cognac Margina Les Chartiers Omeux Sant-Lavert-de-Cognac Margina Comeux Sant-Pais-Suivité Sant-Pais-Suivité Nabelers Aubelers Aubelers Lamérico Lamérico La Maison Neuve
Schlumberger 1688 Skronie-Widen 1972 Skronie-Widen 1972	Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels Dictyopeels	chalmasi app. Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni Ikilarni	Schlumberger %	32 31 31 31 31 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Camparian Camparian Camparian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian	ESP FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % % % %	Traco di Noquera Averzac Salint-Lavrent-de-Cognac Merpina Les Charriers Gimeux Salint-Palais-du-Né Route de Salint-Martial Aubeterne Aubeterne Aubeterne La Maison Neuve Le Calliaud
Schlumberger 1888 Skronie-Wien 1972 Skronie-Wien 1972	Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells	chalmsai ap, kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani kilani	Schlumberger %	32 31 31 31 31 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Camparian Camparian Camparian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian	ESP FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % % % %	Traco di Noquera , avezac Salint-Lavrent-de-Cognac Merpins Comeux Grimeux Salint-Palais-du-Né Route de Salint-Martial Aubeterre Aubeterre La Maison Neuve Le Calliaut La Maison Neuve Le Calliaut Plage des Nonnes (Meschers-sur-Gironde)
Schlumberger 1688 Skronie-Widen 1972 Skronie-Widen 1972	Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie Dicktyopselie	chalmsai ap, kilani	Schlumberger %	32 31 31 33 31 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Campanian Campanian Campanian Maestischian Maestischian Maestischian Maestischian Maestischian Maestischian Maestischian Maestischian Maestischian Maestischian Maestischian Maestischian	ESP FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % % % %	Traio di Noquera Jameza Jameza Sant Lavert-de-Cognac Margina Margina Les Chartlers Gimeux Sant Palais-du Né Route de Sant Martíali Aubeterre Aubeterre Aubeterre Lamérine Maison Neuve Le Callaud Pilage des Nornes (Meschers-sur-Gironde) Neuvic
Schlumberger 1688 Skronie-Widen 1972 Skronie-Widen 1972	Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells Dictyopsells	chalmasi app. kilani kilani kilani kilani kilani teruissima kilani kilani kilani kilani kilani kilani kilani kilani kilani	Schlumberger %	32 31 31 31 31 31 31 31 31 31 31 31 31 31	Santorian Santorian Santorian Santorian Camparian Camparian Camparian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian Maestirchian	ESP FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	8(4) % % % % % % % % % % % % % % % % %	Traco di Noquera , avezac Salint-Lavrent-de-Cognac Merpins Comeux Grimeux Salint-Palais-du-Né Route de Salint-Martial Aubeterre Aubeterre La Maison Neuve Le Calliaut La Maison Neuve Le Calliaut Plage des Nonnes (Meschers-sur-Gironde)

Publication	Genus	Species	Reference	Loc-No	Stratigraphic age	Country	Faunal Province	Illustration	Site
zéma et al. 1979	Lacazina	elongata	Munier-Chalmas	32	Senonian	ESP	EFP	37(1)	Sierra del Buey (Prebetic)
zéma et al. 1979	Lacazina	sp.	%	32	Senonian	ESP	EFP	37(3)	Zona externa de las Cordilleras betica:
ignot 1972	?Lacazina	n. sp.	*	62	Thanetian	HR¥	EFP	*	Coupe de Susak, S of Susak, Istrien
aus 1988	Lacazina	compressa	%	32	Santonian	ESP	EFP	%	Pyrenean Basin
aus 1988	Lacazina	elongata	%	32	Santonian		EFP	%	Pyrenean Basin
aus & Hottinger 1986	Lacazina	elongata	%	32	Santonian	ESP	EFP	%	western Pyrenees
aus & Hottinger 1986	Lacazina	elongata	%	32	Santonian		EFP	%	prebetic plateformes of Murcia-Alicante region
aus & Hottinger 1986	Lacazina	compressa	%	32	Santonian		EFP	%	western Pyrenees
aus et al. 1996	Lacazina	elongata	%	32	late Santonian	ESP	EFP	%	Font de les Bagasses, Sierra del Montsec (Lleida
aus et al. 1996	Lacazina	cantabrica	%	32,31	Santonian	ESP/FRA	EFP	%	Pyrenees
respin 1962	Lacazina	wichmanni	(Schlumberger)	51-	late Eccene	PNG	ASP.	1(1 9) 2(1 15)	New Guinea
illey 1971	Lacazina	sp.	%	%	late Cretaceous	%	%	%	Europe or northern Africa
illey 1973	Lacazina	sp.	Munier-Chalmas	%	Santonian-Maastrichtian	%	EFP	%	Southern Europe
euryetal. 1985	Lacazina	elongata	Munier-Chalmas	32	Santonian-Campanian	ESP	EFP	%	Spain
eury et al. 1985	Lacazina	elongata	Munier-Chalmas	31	Santonian-Campanian	FRA	EFP	%	Aquitaine
euryet al. 1985	Lacazina	compressa	d'Orbigny	31	Santonian	FRA	EFP	%	Provence
eurγet al. 1985	Lacazina	spp.	%	72	Santonian	ITA	EFP	%	Sardinia
endrot 1965	Lacazina	compressa	%	31	Santonian	FRA	EFP	19(2)	Bord de l'étang de Berre
endrot 1965	Lacazina	compressa	%	31	Santonian	FRA	EFP	19(5)	Carrière du chemin de Saint-Pierre
endrot 1965	Lacazina	compressa	(d'Orbigny)	31	Santonian	FRA	EFP	21(1,2)	Carrière du chemin de Saint-Pierre
ischler et al. 1994	Lacazina	sp.	%	32	%	ESP	EFP	40(8)	Basco-Cantrabrian and Iberian basins, N Spain
ischler et al. 1994	Lacazina	elongata	%	32	late Santonian-early Campanian	ESP	EFP		Losa Valley

Hofker 1966	p.127,figs.75,76	۲ ۲	1	er en		1	er l
		20		70			70
Hotker 1966	p.130;figs.85,1;86	%		76			76
Hofker 1966	p.133;figs.92,93	%		%			%
	p.158;fig.85,8	%		%			%
Hofker 1966	p.158;fig.51,4;52	%		%			%
Hofker 1966	p.159;figs.96,1;97	%		%			96
Hofker 1966	p.159;figs.96,2;98	%		%			%
Hofker 1966	p.172; figs.101,102	%		%			%
Hofker 1966	p.173;figs.103,104	%		%			%
	p.201;fig.105.1,107	96		96			%
Hofker 1966	p.214	%		%			%
Hofker 1966	04	a contraction of the second seco		Ŷ			N N
Hofker 1966	p.274; figs.124,125			~			
Hofker 1966		20		20			70
Hotker 1966	p.275;fig.131	70		70			76
	p.275;fig.132	76		76			76
Hofker 1967	Txt-Fig. 1	%		%			%
Hottinger 1966	Fig. 1, 2	Cuneolina, Nummofallotia, Lacazina		ires détritiques et des microbrèches			%
Hottinger 1966	Fig. 1, 2	Cuneolina, Nummofallotia, Lacazina		ires détritiques et des microbrèches			%
Hottinger 1997	%	Lacazina, Subalveolina, Meandropsina		photic zone, 0-40 m			%
Hottinger 1997	*	%	upper p	photic zone, 0-40 m			%
Loeblich & Tappan 1985	*	%		%			%
Loeblich & Tappan 1985	%	%		%		1	%
Loeblich & Tappan 1985	%	%		%			%
Loeblich & Tappan 1985	%	96		96			%
Loeblich & Tappan 1985				%			%
Loeblich & Tappan 1988		%		94 94			%
Loeblich & Tappan 1988		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		70 96			96
Loeblich & Tappan 1988							N
	70	20		70			70
Loeblich & Tappan 1988	76 94	%		76			% %
Luperto Sinni 1966	%	%	limesto				~
Luperto Sinni 1968	70	Nummofallotia, Cuneolina, Rhapydionina, Rhipidionina, Siderol		bedded Rudist limestone; neritic, shallow, temperate-w	arm		%
Luperto Sinni 1976	Fig. 1	%		tritic limestones with calcitic cement			%
Luperto Sinni 1976							
	Fig.1	%		tritic limestones with calcitic coment			%
Luperto Sinni & Ricchetti 1978	Fig. 1	Suneolina, Numm ofallotia	Calcare	re grossolanamente biodetritico; subsident carbonatic p	atform, backree	vell	**
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978	Fig. 1 Fig. 1		Calcare		slatform , backree slatform , backree		*
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978 Marie	Fig. 1	Cuneolina, Nummofallotia	Calcare	re grossolanamente biodetritico; subsident carbonatic p	atom, backree attom, backree	well	%• *•
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978 Marie Marie	Fig. 1 Fig. 1	Cuneolina, Nummofallotia	Calcare	re grossolanamente biodetritico; subsident carbonatic p	slatform, backree Jatform, backree	well	¥e 36
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978 Marie	Fig. 1 Fig. 1 %	Cuneolina, Nummofallotia	Calcare	re grossolanamente biodetritico; subsident carbonatic p	vlatform , backree Latform , backree	well	24. 14. 15. 15. 15. 15. 15. 15. 15. 15
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978 Marie Marie	Fig. 1 Fig. 1 %	Cuneolina, Nummofallotia	Calcare	re grossolanamente biodetritico; subsident carbonatic p	Jatiom, backree Jatiom, backree	well	%- %- % %
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978 Marie Marie Marie	Fig. 1 Fig. 1 %	Cuneolina, Nummofallotia	Calcare	re grossolanamente biodetritico; subsident carbonatic p	Aatom, backree Katom, backree	well	36 36 36 36 36 36 36 36 36
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978 Marie Marie Marie Marie Marie Marie	Fig. 1 Fig. 1 %	Cuneolina, Nummofallotia	Calcare	re grossolanamente biodetritico; subsident carbonatic p	Jatiom, backree Jatiom, backree	well	% % % % % %
Luperto Sinni & Ricchetti 1978 <u>Luperto Sinni & Ricchetti 1978</u> Marie Marie Marie Marie Marie Marie Marie	Fig. 1 Fig. 1 %	Cuneolina, Nummofallotia	Calcare	re grossolanamente biodetritico; subsident carbonatic p	Aatform, backree Aatform, backree	well	36
Luperto Sinni & Ricchetti 1978 <u>Luperto Sinni & Ricchetti 1978</u> Marie Marie Marie Marie Marie Marie Marie Marie	Fig. 1 Fig. 1 %	Cuneolina, Nummofallotia	Calcare	re grossolanamente biodetritico; subsident carbonatic p	Jatiom, backree Jatiom, backree	well	36
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978 Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie	Fig. 1 Fig. 1 %	Cuneolina, Nummofallotia	Calcare Gelose	re grossolanamente biodetritico; subsident catonotic p exarossolanamente biodetritico: subsident catonotico (% % % % % % % % % % % % % % % % % % %	Aatform, backree Aatform, backree	well	36 36 36 36 36 36 36 36 36 36 36 36 36 3
Luperto Sinni & Ricchetti 1978 <u>Luperto Sinni & Ricchetti 1978</u> Marie Marie Marie Marie Marie Marie Marie Marie Marie	Fig.1 Fig.1 % % % % % %	Cuneolina, Nummotaliotia Cuneolina, Nummotaliotia % % % % % % % % %	Calcare Gelose	re grossslanamente biodetritico; subsident carbonatic p re orossslanamente biodetritico; subsident carbonatic p % % % % % % % % %	Jafforn, backree	vell	ж Ж Ж Ж Ж Ж Ж Ж
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978 Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie	Fig. 1 Fig. 4 % % % % % % % % Page 137	Cuneolina, Nummotaliotia Cuneolina, Nummotaliotia % % % % % % % %	Calcare Calcare Facies	re grossolanamente biodetritico; subsident achonatic pr evarossolanamente biodetritico: subsident cathonatic p % % % % % % % % % % % % % % % % % % %	Jafforn, backree	vell	ж. Ж. Ж. Ж. Ж. Ж. Ж. Ж.
Luperto Sinni & Ricchetti 1978 <u>Luperto Sinni & Ricchetti 1978</u> Marie	Fig.1 Fig.4 % % % % % % Page 137 Fig1	Cunsolina, Nummotaliotia Cunsolina, Nummotaliotia % % % % % % % % % % % % % % % % % % %	Calcar Calcar Calcar Facies calcair	re grossslanamente biodetritico; subsident carbonatic p re grossslanamente biodetritico; subsident carbonatic p % % % s secital rec et calcaires dolomitiques, shallowmantic	Jafforn, backree	vell	ж Ж Ж Ж Ж Ж Ж Ж
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978 Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie	Fig. 1 Fig. 4 % % % % % % % % Page 137	Cuneolina, Nummotaliotia Cuneolina, Nummotaliotia % % % % % % % %	Calcare Calcare Facies eacare calcare	re grossolanamente biodetritico; subsident cathonatic p exprossolanamente biodetritico; subsident estabonatic p expressolanamente biodetritico; subsident estabonatico s s recital s recital s recital s rece et catcatres dolomitiques; shallowmante rece bioges à grain fin et de cateatres cristalline, minicos	Jafforn, backree	vell	ж. Ж. Ж. Ж. Ж. Ж. Ж. Ж.
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Luperto Sinn & Ricchetti 1978 Luperto Sinn & Ricchetti 1978 Marie Mar	Fig. 1 Fig. 1 Fig. 1 Fig. 1 Fig. 4 % % % % % % % % % % Page 40 % Fig. 1 Page 40 % Page 40 % Page 43 Page 44 Page 48 Page 55 Page 56 Pa	Cuneolina, Numodalidia Cuesolina, Numodalidia Cuesolina, Numodalidia Cuesolina, Numodalidia % % Cuesolina, Pseudedomia % Cuesolina, Pseudedomia Cuesolina, Meandropsina Lacazina, Cuneolina, Meandropsina Lacazina, Cuesolina, Meandropsina Lacazina, Cuesolina, Meandropsina Lacazina, Cuesolina, Meandropsina Lacazina, Cuesolina, Meandropsina S% Numodalidia, Siderolites Numodalidia, Siderolites Numodalidia, Orbitoides, Siderolites Siderolites Nummodalidia, Orbitoides, Siderolites Nummodalidia, Orbites Nummodalidia, Orbitoides, Siderolites Nummodalidia, Orbitoi	Cal care Cal care Cal care Selection Selection Selection Cal care Cal cal Cal cal Cal Cal cal Cal cal C	re grossolanamente biodetritios, subsident catocholis p re arrossolanamente biodetritios, subsident catocholis p se arrossolanamente biodetritios, subsident catocholis (s s s s recital s s recital s s recital s s recital s s recital s s recital s s s recital s s recital s s recital s s s recital s s recital s s recital s s recital s s recital s s recital s s recital s s recital s s recital s s recital s s recital s s recital s s recital s s recital s s recital	Jadom, backne	vell vell vell vell vell vell vell vell	K K

Lacazina

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Azéma et al. 1979	%	Cuneolina	Intrabiosparitic limestone (grainstone); carbonate platform	%
Azéma et al. 1979	%	%	Biomicrite (vackestone); carbonate platform	%
Bignot 1972	Page 104	%	%	Text: Lacazinellal
Caus 1988	%	%	carbonate platform, 0-40 m	%
Caus 1988	%	%	carbonate platform, 0-60 m; terrigeneous platform	%
Caus & Hottinger 1986	Fig. 1	%	%	%
Caus & Hottinger 1986	%	%	%	%
Caus & Hottinger 1986	Fig. 1	%	%	%
Causetal. 1996	%	Orbitoides	%	%
Caus et al. 1996	%	Orbitoides	%	%
Creepin 1962	*	%	%	type species of Lacazinella
Dilley 1971	%	%	%	%
Dilley 1973	Table 2	%	%	%
Fleury et al. 1985	%	%	%	%
Fleury et al. 1985	%	%	%	%
Fleury et al. 1985	%	%	%	%
Fleury et al. 1985	Fig. 1	%	%	%
Gendrot 1965	Fig. 1	%	calcaire argileux	%
Gendrot 1965	Fig.1	%	calcaire argileux	96
Gendrot 1965	Fig.1	%	calcaire argileux	%
Gischler et al. 1994	Fig.1	%	rudstone; shallow marine carbonate ramp	%
Gischler et al. 1994	Fig. 1	%	shallowmarine carbonate ramp	%

	Lacazina	Later water	~					later on	
	Lacazina	elongata	70	22	70	ESP	EFP	41(7,8)	Basco-Cantrabrian and Iberian basins, N Spain
		sp.	70 Cablum basenes	22		ESP	EFP	76	Tremp area Dellaces Divers Cierce de Manteach I óride
Hofker 1967 Hottinger 1966	Lacazina Lacazina	depressa depressa	Schlumberger 3	22	late Santonian early Senonian		EFP	20	Palleresa River, Sierra de Montsech, Lérida N Spain
			1 20 1	32 1				70	
Hottinger 1966	Lacazina	depressa	%	32	early Senonian	ESP	EFP EFP EFP	%	Montsech
lottinger 1966	Lacazina	depressa	1 %	31 1	early Senonian	FRA	EFP	%	Martigues
	Lacazina	compressa	%	52	Santonian?	ESP	EFP	%	Route Balaguer-Tremp, Sierra de Montsech
	Lacazina	elongata	%	32	Santonian	ESP	EFP	%	Route Balaguer-Tremp, Sierra de Montsech
	Lacazina	sp.	%	46	middle to late Paleocene	%	*	×	*
lottinger 1997	Lacazina	sp.	%	- %	Santonian, Conjacian	%	%	%	%
Hottinger 1997	Lacazina	sp.	%	\$	Santonian, Conjacian	%	%	%	%
Hottinger et al. 1989	Lacazina	sp.	%	32	late Cretaceous	ESP	EFP	%	n argins of the Cantabrian Basin
Hottinger et al. 1989	Lacazina	sp.	% 3	32	late Cretaceous	ESP	EFP	%	prebetic realm
	Lacazina	sp.	96	72	late Cretaceous	ITA	EFP	%	Sardinia
Hottinger et al. 1989	Lacazina	50	l n	31	%	FRA	EFP EFP EFP	- ŵ	northeastern (French) margin of the Pyrenean basin
Hottinger et al. 1989	Lacazina	elongata	1 %	32		ESP	FFP	×	St. Corneli-Boixols
	Lacazina	elongata			Santonian	ESP	EFP		Montsec
	Lacazina	elongata		32	Santonian	ESP	EFP	00 00	Tracó de Noquers
	Lacazina	sp.	Munier-Chalmas 3	31	Senonian	FRA	EFP	/0	France
	Lacazina			20		ESP	EFP	, , , , , , , , , , , , , , , , , , ,	Spain
	Lacazina		Munier-Chalmas 5			ISR	CFP ACD	70	Spani
			Munier-Chaimas :	53 J		ESP	AFP EFP	70	
	Lacazina	compressa	(d'Orbigny)	32	Santonian	ESP	EFP	364(8-12)	Lerida Province, Spain
	Lacazina	compressa	d'Orbigny 3	31 1	%	FRA	EFP	%	l Étang de Berre
Marie unpubl.	Lacazina	compressa	d'Orbigny 3	31	%		EFP	%	Chemin de St. Pierre
	Lacazina	elongata	Munier-Chalmas 3		Santonian		EFP	8(3); 10(15-18); 11(19)	Catalogne à Trago di Noguera, Montsech, Corsù, Ayramon
	Lacazina	lamellifera	n.sp. 4	47	Cretaceous	IÐN	ASP.	1(4); 2(1-4)	Talang Glugur (Saling: Chaîne de Gumai, Res. Palembang
	Lacazina		Silvedri 4	47	late Cretaceous	IDN	ASP-	*	Talang Glugur, Gumai Gebirge, Sumatra
Yabe & Hanzawa 1931	?Lacazina	lamellifera	Silvestri 4	47.	late Cretaceous	IDN	ASP.	%	Sumatra
	?Lacazina	wichmanni	Schlumberger	51-		PNG	ASP.	*	New Guinea
	2 acazina	wichmanni	Schlumberger	51	(?) Ecome	RNG.	ASP.	84	New Guines
Zambetakis Lekkas 1988	Lacazina	en.	<u>96</u>	36	Delenrene	GRC	EEP	94	Hom Yuliba Caupa da Chrissoväsi
				~		+		77	Composition of a contract man
Chubbina					i la				
		1	i l		I.	1			
Publication	Genus	Species	Reference	Loc-No	Stratigraphic age	Country	Faunal Province	Illustration	Site
	Chubbina	jamaicensis	Robinson	68	Campanian(?)-Maestrichtian	MEX	CEP	3(1-3)	Mexico, Caribbean
Butterlin 1981	Chubbina	macgillavryi	Robinson	68	Campanian Maestrichtian	MEX	CEP	3(4-6)	Mexico, Caritbean Mexico, Caritbean
	Chubbina	cardenasensis	(Barker & Grimsdale) 6		Campanian-Maestrichtian	MEX	CER	3(7-8)	Mexico, Caribbean
Dilley 1973	Chubbina		Robinson	~ ~	Campanian-Maestrichtian		CFP	ov -o/	Central America
Dillou 1072	Chubbina	sp.	Robinson 1	4 ^{.0} 1	Campanian-Maastrichtian	cue ~	CEP	a contraction of the second se	Cuba
				! /			CFP	76	
	Chubbina	sp.	Robinson 6	5 I	Campanian-Maastrichtian	J.AM	CFP	%	Lamaica
Dilley 1973	Chubbina	sp.	Robinson	3	Campanian-Maastrichtian	MEX	CFP	%	Mexico
Fleury 1977	?Chubbina	philippsoni	n.sp.	36- 1	Crétacé supérieur	GRC-	EFP	2(11)	coupe du Klokova, Griechenlan:
	?Chubbina	philippeoni	nsp.	36	%		EFP	2(1 10,12 15)	SE Pirgos
	Chubbina		Robinson 6				CFP	7(1-4); 8(1,3); tabl.1 & 2	, amai ca
	Chubbina	jamaicensis		68			CFP	%	Mexico
Hamaoui & Fourcade 1973	Chubbina		Robinson 2	2	Campanian-Maastrichtian	USA	CFP	%	Florida
Hamaoui & Fourcade 1973	Chubbina	jamaicensis	Robinson 1	1	Campanian-Maastrichtian	CUB	CFP	%	Cuba
Loeblich & Tappan 1988	Chubbina	sp.	Robinson	6	Campanian-Maastrichtian		CFP	%	, amaica
	Chubbina	sp.		68	Campanian-Maastrichtian		CFP	o.	Mexico
Loeblich & Tappan 1988	Chubbina		Robinson 1	50 4	Campanian-Maastrichtian	CUB	CFP	/* *	Cuba
Loeblich & Tappan 1988	Chubbina	sp.	Robinson 2	, !	Campanian-Maastrichtian	USA	CFP	20 %	Florida
		sp.		2					
	Chubbina	jamaicensis	Robinson	<u> </u>	Campanian	JAM	CFP	367(1-5)	vamaica, West Indies
	Chubbina	jamaicensis	Robinson	3 1		MEX	CFP	%	Tudia Gutierrez
	Chubbina	jamaicensis	Robinson 3	3 !			CFP	%	Tudla Gutierrez
	Chubbina	jamaicensis	Robinson 3	3	Campanien-Maastrichtien	MEX	CFP	%	N1; Oxchue
Pécheux 1984	Chubbina	jamaicensis	Robinson 3	3	Campanien-Maastrichtien	MEX	CFP	2(7)	N1; Oxchuc
	Chubbina	jamaicensis	Robinson 3	3	Campanien-Maastrichtien	MEX	CFP	%	N1; Oxchuc
Pécheux 1984	Chubbina		Robinson	3	Campanien-Maastrichtien	MEX	CFP	ov.	N1; Oxchuc
		iamaicensis				MEX			
Pécheux 1984	Chubbina		Robinson	3 1	Campanien-Maastrichtien		CFP	w w	N1: Oxehuc
Pécheux 1984	Chubbina Chubbina	jamaicensis	Robinson 3 Robinson 3	3 3	Campanien-Maastrichtien Campanien-Maastrichtien	MEX	CFP	%	N1; Oxchuc N1: Oxchuc
Pécheux 1984 Pécheux 1984	Chubbina	jamaicensis jamaicensis	Robinson 3	3	Campanien-Maastrichtien	MEX	CFP CFP	%	N1; Oxchuc
Pécheux 1984 Pécheux 1984 Pécheux 1984	Chubbina Chubbina	jamaicensis jamaicensis jamaicensis	Robinson 3 Robinson 3	3	Campanien-Maastrichtien Campanien-Maastrichtien	MEX	CFP CFP CFP	%	N1; Oxchuc N1; Oxchuc
Pécheux 1984 Pécheux 1984 Pécheux 1984 Pécheux 1984	Chubbina Chubbina Chubbina	jamaicensis jamaicensis jamaicensis jamaicensis	Robinson 3 Robinson 3 Robinson 3	3 3	Campanien-Maastrichtien Campanien-Maastrichtien Campanien-Maastrichtien	MEX MEX MEX	CFP CFP CFP CFP	% % %	M1;Oxchuc N1;Oxchuc N1;Oxchuc
Pécheux 1984 Pécheux 1984 Pécheux 1984 Pécheux 1984 Pécheux 1984	Chubbina Chubbina Chubbina Chubbina	jamaicensis jamaicensis jamaicensis jamaicensis jamaicensis	Robinson 3 Robinson 3 Robinson 3 Robinson 3	3 3 3	Campanien-Maastrichtien Campanien-Maastrichtien Campanien-Maastrichtien Campanien-Maastrichtien	MEX MEX MEX MEX	CFP CFP CFP CFP CFP	% % %	811; Oschuo 811; Oschuo 811; Oschuo 811; Oschuo
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Pécheux 1984 Pécheux 1984 Pécheux 1984 Pécheux 1984 Pécheux 1984 Pécheux 1984 Pécheux 1984 Pécheux 1984	Chubbina Chubbina Chubbina Chubbina Chubbina Chubbina	jamaicensis jamaicensis jamaicensis jamaicensis jamaicensis jamaicensis jamaicensis	Robinson 3 Robinson 3 Robinson 3 Robinson 3 Robinson 3 Robinson 3	3 3 3 3 3	Campanien-Maastrichtien Campanien-Maastrichtien Campanien-Maastrichtien Campanien-Maastrichtien Campanien-Maastrichtien Campanien-Maastrichtien	MEX MEX MEX MEX MEX MEX	CFP CFP CFP CFP CFP CFP CFP CFP	% % % % %	M1 (Oxbuc M1 (Oxbuc M1 (Oxbuc M1 (Oxbuc M1 (Oxbuc M1 (Oxbuc
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xx 1984 xx	Page 13 Page 12 Page 13 Page 12 Page 13 Page 12 Page 12 Page 12 Page 13 Page 1	Praetwolina, Borels, "Xtathina Praetwolina, Borels, "Xtathina Praetwolina, Borels, "Xtathina Praetwolina, Borels, "Xtathina "Xtathina "Xtathina "Xtathina "Xtathina "Xtathina "Praetwolina" Praetwolina Praetwolina, Ktathina Pesudorhapydionina, Ktathina Praetwolina, Ktathina Praetwolina, "Ktathina Praetwolina, "Ktathina	aciaries dolomitiques calcaires dolomitiques calcaires dolomitiques calcaires dolomitiques calcaires dolomitiques légèrement mameux calcaires dolomitiques légèrement mameux calcaires dolomitiques légèrement mameux calcaires dolomitiques légèrement mameux calcaires dolomitiques légèrement poreux, partisis dolomitiques calcaires micritiques totement poreux, partisis dolomitiques calcaires micritiques totement poreux, partisis dolomitiques calcaires signatitues blancs niveaux à rudistes niveaux à rudistes calcaires micritiques totes et gris calcaires micritiques totes et gris calcaires martiques totes et gris calcaires martingues totes et gris calcaires marteux et marteux et marteux et marteux calcaires marteux et marteux et marteux calcaires marteux et marteux et marteux calcaires marteux et mar	

Appendix - Tables of the Genera

Pécheux 1984	Chubbina	jamaicensis	Robinson	3	%	MEX	CFP	2(4)	Chiapas, SE Mexico
Pécheux 1984	Chubbina	jamaicensis	Robinson	3	%	MEX	CFP	2(5)	Chiapas, SE Mexico
Pécheux 1984	Chubbina	jamaicensis	Robinson	3	%	MEX	CFP	2(8,12)	Chiapas, SE Mexico
Pécheux 1984	Chubbina	jamaicensis	Robinson	3	%	MEX	CFP	2(10)	Chiapas, SE Mexico
Pécheux 1984	Chubbina	jamaicensis	Robinson	3	%	MEX	CFP	2(13)	Chiapas, SE Mexico
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J,AM	CFP	101(1)	railway betw. Catadupa and Cambridge, Jamaica, WJ., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J.AM	CFP	101(2)	railway betw. Catadupa and Cambridge, Jamaica, W.I., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J.AM	CFP	101(3)	railway betw. Catadupa and Cambridge, Jamaica, WJ., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J,AM	CFP	101(4)	railway betw. Catadupa and Cambridge, Jamaica, WJ., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J,AM	CFP	101(5)	railway betw. Catadupa and Cambridge, Jamaica, WJ., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J,AM	CFP	101(6)	railway betw. Catadupa and Cambridge, Jamaica, WJ., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J.AM	CFP	102(1)	railway betw. Catadupa and Cambridge, Jamaica, WJ., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J.AM	CFP	102(2)	railway betw. Catadupa and Cambridge, Jamaica, W.I., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J.AM	CFP	102(4)	railway betw. Catadupa and Cambridge, Jamaica, W.I., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J,AM	CFP	102(3)	3/4 of a mile west of Frankfield, parish of Clarendon, Jamaica, W.I., at Guinea Corn, in the bed of the Rio Minho
Robinson 1968	Chubbina	jamaicensis	n.sp.	6	late Campanian-Maastrichtian	J.AM	CFP	102(5)	railway betw. Catadupa and Cambridge, Jamaica, WJ., at the 10th telegraph pole, plus 20 ft., after milepost 96
Robinson 1968	Chubbina	cf. macgillavryi	n.sp.	3	late Campanian-Maastrichtian	MEX	CFP	102(6)	road betw. Tuxtla Gutierrez and Ocozocuautla, state of Chiapas, Mexico, at stop 2, K.1061
Robinson 1968	Chubbina	cf. macgillavryi	n.sp.	3	late Campanian-Maastrichtian	MEX MEX	CFP	102(7)	road betw. Tuxtla Gutierrez and Ocozocuautla, state of Chiapas, Mexico, at stop 2, K.1061
Robinson 1968	Chubbina	macgillavryi	n.sp.	3	late Campanian-Maastrichtian	MEX	CFP	102(8)	road betw. Tuxtla Gutierrez and Ocozocuautla, state of Chiapas, Mexico, at stop 2, K.1061
Robinson 1968	Chubbina	macgillavryi	n.sp.	3	late Campanian-Maastrichtian	MEX	CFP	103(3)	road betw. Tuxtla Gutierrez and Ocozocuautla, state of Chiapas, Mexico, at stop 2, K.1061
Robinson 1968	Chubbina	macgillavryi	n.sp.	3	late Campanian-Maastrichtian	MEX	CFP	103(4)	road betw. Tuxtla Gutierrez and Ocozocuautla, state of Chiapas, Mexico, at stop 2, K.1061
Rosales Dominguez et al. 1994	Chubbina	sp.	%	3	Maastrichtian	MEX	CFP	4(6)	Ocozocuautia

Pseudedomia

Publication	Genus	Species	Reference	Loc-No	Stratigraphic Age	Country	Faunal Province	Illustration	Site
Colalongo 1963	Sellialveolina	viallii	n-sp-	35	Cenomanian	ITA	EED.	29(1.6)	
De Castro 1988	Pseudedomia	dmrimensis	Reise, Hamaoui & Ecker	53	late Cenomanian	LSR.		2(1 10) 3(1 6)	http://www.counterrypennes
De Castro 1988	Pseudedomia	anonimoridio	Noice, Hainadure Eokor	66	Campanian or Maastrichtian	ARE	AFP	4(1,3)	Abu Dhabi
De Castro 1988	Pseudedomia	su. cf. hamaouii	70	00	Campanian or Maastrichtian	ARE	AFP	4(1,5)	Abu Dhabi
Dilley 1971	Pseudedomia	sp.	%	00	Senonian	MAL %	EFP	*(2,*,5) %	southern Europe
		sh.	70	:0		76	AFP	20	
Dilley 1971	Pseudedomia	sp.	70 Henson	10	Senonian	76	AFP	70	Middle East Middle East
Dilley 1973 Fleury et al. 1985	Pseudedomia	sp.	Henson	67	Santonian-Maastrichtian	%	AFP	76 07	
	Pseudedomia	spp.	76	27	Santonian	IRQ IRN	AFP FFD	70	raq
Fleury et al. 1985	Pseudedomia	spp.	%	56 55	Santonian		AFP	%	l'an le construction de la const
Fleury et al. 1985	Pseudedomia	spp.	%	55 24	Santonian	KWVP		%	Kuwait
Fleury et al. 1985	Pseudedomia	spp.	%		Santonian	QAT	AFP	%	Qatar
	Pseudedomia	sp.	%	27	Campanian	IRQ	AFP	%	l'aq
Fleuryet al. 1985	Pseudedomia	sp.	%	56	Campanian	IRN	EFP	8	Wiran
Fleury et al. 1985	Pseudedomia	sp.	%	24	Campanian	QAT	AFP	%	Qatar
Görmüs 1996	Pseudedomia	hekimhanensis	n.sp.	38	late Campanian	TUR	EFP	1(1-3)	Sip-Sip location, Hekimhan, 70 km NVV of Malatya, E Turkey
	Pseudedomia	hekimhanensis	Görmüs 1996	38	early-middle Maastrichtian	TUR	EFP	1(1-4), 2(1-5)	Sip-Sip location, Hekimhan, 70 km NW of Malatya, E Turkey, 38"50"N, 37"56'E
Görmüs 1999	Pseudedomia	multistriata	%	24	Maastrichtian	QAT	AFP	%	Quatar
Görmüs 1999	Pseudedomia	multistriata	%	32	Maastrichtian	ESP	EFP	8	Spain
Görmüs 1999	Pseudedomia	multistriata	%	36	Maastrichtian	GRC	EFP	%	Greece
Görmüs 1999	Pseudedomia	aff. multistriata	%	36	late Maastrichtian	GRC	EFP	%	Greece
Görmüs 1999	P seudedomia	complanata	%	55	Campanian	KWP	AFP	%	Kuwait
Görmüs 1999	Pseudedomia	vialli	94	35 56	Cenomanian	ITA	EFP	94	tatv
Görmüs 1999	Pseudedomia	hamaouii	%	56	Campanian	IRN	FFP	%	tan la
Görmüs 1999	Pseudedomia	drorimensis	96	55	Cenomanian Turonian	94	94	94	96.
Hamaoui & Fourcade 1973	Pseudedomia	multistriata	Henson	24	Maastrichtian	QAT	AFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Qatar 77
Hamaoui & Fourcade 1973	Pseudedomia	dobularis	96	27	Campanian	IRO	AER	94.	Leg
	Pseudedomia	dmrimensis	~	53	Genomanian	ISP.	EED.		rang Israel
Hamaduro I dardade 1973			*	90		Hort-		*	12.480
Hamaoui & Fourcade 1973	Pseudedomia	sp "Praecos"	er.	16	Cenomanian	DZA	AEP.	3(1)	Lesis.
	Paeudedomia		~	16	Cenomanian	DZA		0(1)	Ageria
		2 sp. viallii	% Colaiongo	17		TUN	AFP	0(0.0)	Ageria
	P-seudedomia P-seudedomia			177 16	Cenomanian	DZA	AEP	6(5,6) 8(5) 8(6,8)	Tunisia
		sp.	**		Cenomanian			0(0:0)	Ageria
Hamaoui & Fourcade 1973	Pseudedomia	viallii	*	16	Cenomanian	DZA	AFP	8(2,4) 8(7,9)	Ageria
	Pseudedomia	cf. ? P.drorimensis	*	4 6 17	Cenomanian	DZA	AEP	8(7,8)	Agena
	Pseudedomia	viallii	Colalongo	14	Cenomanian	TUN	AFP.	8(1,6,8)	Tunisia
Hamaoui & Fourcade 1973	Pseudedomia	viallii	Celalonge	16	Cenomanian	DZA	AFP	9(2-5,7)	Ageria
	Pseudedomia	sp.	Henson	24	Cenomanian-Maastrichtian	QAT	AFP	8	Qatar
Loeblich & Tappan 1988	Pseudedomia	sp.	Henson	55	Cenomanian-Maastrichtian	KWP	AFP	8	Kuwait
	Pseudedomia	sp.	Henson	17	Cenomanian-Maastrichtian	TUN	AFP	%	Tunisia
Loeblich & Tappan 1988	Pseudedomia	sp.	Henson	54	Cenomanian-Maastrichtian	LBN	AFP	%	Lebanon
	Pseudedomia	sp.	Henson	27	Cenomanian-Maastrichtian	IRQ	AFP	%	Iraq
Loeblich & Tappan 1988	Pseudedomia	sp.	Henson	53	Cenomanian-Maastrichtian	ISR	EFP	%	Israel
Loeblich & Tappan 1988	Pseudedomia	sp.	Henson	35	Cenomanian-Maastrichtian	ITA	EFP	%	taly
Loeblich & Tappan 1988	Pseudedomia	sp.	Henson	39	Cenomanian-Maastrichtian	PRT	EFP	%	Portugal
Loeblich & Tappan 1988	Pseudedomia	sp.	Henson	37	Cenomanian-Maastrichtian	YUG	EFP	%	Yuqoslavia
Loeblich & Tappan 1988	Pseudedomia	50.	Henson	36	Cenomanian-Maastrichtian	GRC	EFP	%	Greece
Loeblich & Tappan 1988	Pseudedomia	multistriata	Henson	24	Maastrichtian	QAT	AFP	368(6); 369(3-4)	Qatar Peninsula, Arabia
Loeblich & Tappan 1988	Pseudedomia	complanata	Earnes & Smout	55	Campanian	KWYP	AFP	368(7-8), 369(1-2)	Kuwait
Loeblich & Tappan 1988	Pseudedomia	viallii	(Colalongo)	55 35	Genomanian	ITA	EFP.	369(5-8)	Accessing Halv
Mavrikas et al. 1994	Pseudedomia	aff. multistriata	%	36	late Maastrichtian	GRC	EFP	2(9-15)	or vatou
Mavrikas et al. 1994	Pseudedomia	aff. multistriata	96	36	late Maastrichtian	GRC	FFP	2(1-8)	on value
	Pseudedomia	vialli	(Colalongo)	28	Albian early Cenomanian	SYR	AEP	2(1-6)	Vir valou Palmvides (Svrie centrale) P
Mouty et al. 2003	Pseudedomia	Halli	(cona ongo) %	28- 28-	middle late Cenomanian	SYR	AFP	l 🕺	Palmyrides (Syrie cantrale)
			-76			IRN	EFP	1(1-11)	
Rahaghi 1976	P seudedomia	hamaouii	n.sp.	56	Campanian		FFP		Région de Kernanshah
	P seudedomia P seudedomia	persica viallii	n.sp.	56	Campanian middle Cenomanian	IRN TUR	EFP	3(1-8)	costal Fars of Iran, Kangan area Korkuteli Area (Avedern Taurides)
Sari & Özer 2002	I r seuuedomia	1-1-2-11-1	(Colalongo)	96	Immune Cennmanian	I+OK	IEF#	I *	Norkalen Artea (Arteaten Fraunuss)

Raadshoovenia

Publication	Genus	Species	Reference	Loc-No	Stratigraphic Age	Country	Faunal Province		llustration	Site
Azema et al. 1979	Raadshoovenia	salentina	(Papetti & Tedeschi)	32	Senonian	ESP	EFP	41(12-14)		Pantano de las Camarillas
Azema et al. 1979	Raadshoovenia	salentina	(Papetti & Tedeschi)	32	Senonian	ESP	EFP	36(3)		Pantano de las Camarillas (Prebetic)
Bignot 1972 Bignot 1972 Bignot 1972	Raadshoovenia	cuvillieri	%	63	%	SVN	EFP		%	La région de Divaca
Bignot 1972	Raadshoovenia	cuvillieri	%	63	Senonian	SVN	EFP		%	Coupe de Divaca
Bignot 1972	Raadshoovenia	cuvillieri	%	63	Senonian	SVN	EFP		%	Coupe de Dutovije
Bignot 1972	Raadshoovenia	cuvillieri	%	63	Senonian	SVN	EFP		%	Coupe d'Opicina
Bignot 1972	Raadshoovenia	cuvillieri	%	63	Senonian	SVN	EFP	15(2-7)		entre Dutovlje et Kreplje
Butterlin 1981	Raadshoovenis	guatemalensis	van den Bold	68-	early Eccene	MEX	GFP-	4(7)		Mexico, Caribe

Görmüs 1999	%	%	limestone	%
Görmüs 1999	%	%	%	%
Görmüs 1999	%	*	*	*
Görmüs 1999	%	%	%	%
Görmüs 1999	%	%	9 6	%
Hamaoui & Fourcade 1973	%	%	mers peu profondes de type lagunaire	Syn.: "Praecosinella", Sellialveolina
Hamaoui & Fourcade 1973	%		96	type species: Pseudochubbins
Hamaoui & Fourcade 1973	94	96	milieux marins peu profonde, assez chaude,	24
		~	à salinité normale, das les zones de plateforme interne	~
Hamaoui & Fourcade 1973	<u>%</u>	96.	9 <u>6</u>	86
Hamaoui & Fourcade 1973	96	96	96	anciennement appelée "Ouladnailla ?
Hamaoui & Fourcade 1973	94			
Hamaoui & Fourcade 1973	<u>.</u>	34	9 <u>6</u>	anciennement appelée "Praecosinella
Hamaoui & Fourcade 1973	ov.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	
Hamaoui & Fourcade 1973	96		100	Spécimens appelés "Praecosinella
Hamaoui & Fourcade 1973		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		9/
Hamaoui & Fourcade 1973	~			
Loeblich & Tappan 1988	*	*		** ov
Loeblich & Tappan 1988	70	70	70	20
	76	70	70	~~
Loeblich & Tappan 1988	76	10 A	70	20
Loeblich & Tappan 1988	%	×	1 %	*
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	96	%
Loeblich & Tappan 1988	%	%	96	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Leeblich & Tappan 1988	%	*	9 6	%
Mavrikas et al. 1994	Fig. 1	Siderolites, Orbitoides, Lepidorbitoides, Hellenocyclina, Sirtina	limestones with large rudists; plate-forme externe	%
Mavrikas et al. 1994	Fig 1	Orbitoides, Sirtina	limestones with large rudists; plate-forme externe	96
Moutvet al. 2003	Fig.1	Cuneolina (laurentii, pavonia), Dictyopsella cf. libanica	94.	96
Mouty et al. 2003	Fig.1	Cuneolina pavonia	96-	96
Rahaghi 1976	%	%	26	Görmüs 1996: pl.1, fig.1 = P. hekimhanensis
Rahaghi 1989	Fig. 1	Globotruncana elevata	limestones, cream, detrital, thick bedded	%
Sari & Özer 2002	Fig. 1.2	Cuneolina	massively bedded limestones with rudist reef, marine open olatform, peritic	26
Raadshoovenia				
Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Azema et al. 1979	%	%	%	%
Azema et al. 1979	%	%	recrystallized biopelsmicritic limestone (pack stone), platform environmen	%
Bignot 1972	fg.11,12,14	Rhapydionina, Rhipidionina	%	%
Bignot 1972	tig.11,12,14	Rhapydionina	Calcaires gris sombre	%
Bignot 1972	fg.17	Cuneolina, Rhapydionina, Rhipidionina	Calcaires sombres	%
	fig. 24	Cuneolina	Calcaire brun	*
Bignot 1972	fg.17	Cuneolina	calcaire microcristallin	%
Butterlin 1981-	19.11 94	%	%	9 <u>4</u>

Pécheux 1984	8	96	96	۵۵	1
Pécheux 1984	ő	No.	~	~	
Pécheux 1984	×**			0/	
Pécheux 1984	~	~	~	~	
Pécheux 1984	~	20 20	20 W	70	
Robinson 1968	Page 527	76	3% shallowshelf or lagoonal environment	70	
Robinson 1968	Page 527 Page 527	76	shallowshell or lagoonal environment	20	
Robinson 1968		76		**************************************	
	Page 527	76	shallowshelf or lagoonal environment	20	
Robinson 1968 Robinson 1968	Page 527	%	shallowshelf or lagoonal environment		
	Page 527	%	shallowshelf or lagoonal environment	96	
Robinson 1968	Page 527	%	shallowshelf or lagoonal environment	%	
Robinson 1968	Page 527	%	shallowshelf or lagoonal environment	%	
Robinson 1968	Page 527	%	shallowshelf or lagoonal environment	%	
Robinson 1968	Page 527	%	shallowshelf or lagoonal environment	%	
Robinson 1968	Page 527	%	shallowshelf or lagoonal environment	%	
Robinson 1968	Page 527	%	shallowshelf or lagoonal environment	%	
Robinson 1968	Page 527	Kathina, Sulcoperculina, Ayalaina	96	%	
Robinson 1968	Page 527	Kathina, Sulcoperculina, Ayalaina	96	%	
Robinson 1968	Page 527	Kathina, Sulcoperculina, Avalaina	%	%	
Robinson 1968	Page 527	Kathina, Sulcoperculina, Ayalaina	96	%	
Robinson 1968	Page 527	Kathina, Sulcoperculina, Avalaina	%	96	
Rosales Dominguez et al. 1994	%	%	%	%	
Rosales Dominguez et al. 1994 Pseudedomia		· · · · · · · · · · · · · · · · · · ·	1 ~ ~		
Rosales Dominguez et al. 1994 Pseudedomia Publication	Loc-Descr.	Association	Lithology and Facios	% Remarks St.	
Rosales Dominguez et al. 1994 Pseudedomia Publication Colalongo 1963		Association	Lithology and Facies	Remarks	
Rosales Dominguez et al. 1994 Pseudedomia Publication Celalongo 1963 De Castro 1988	Loc-Descr.	Association	Lithology and Facies	Remarks	
Rosales Dominguez et al. 1994 Pseudedomia Publication Celalongo 1963 De Castro 1988 De Castro 1988	Loc-Descr.	Association	Lithology and Facies	Remarks	
Rosales Dominguez et al. 1994 Pseudedomia Publication Celalorgo 1989 De Castro 1988 De Castro 1988 De Castro 1988	Loc-Descr.	Association	Lithology and Facies	Remarks	
Rosales Dominguez et al. 1994 Pecudedomia Publication Celatorge 1963 De Castro 1988 De Castro 1988 De Castro 1988 Delley 1971	Loc-Descr. Fig.1 % %	Association	Lithology and Facies	Remarks	
Besudestominguez et al. 1994 Publication Colorego 1963 De Castor 1988 De Castor 1988 De Castor 1988 De Castor 1988 Dilley 1971 Dilley 1971	Loc-Descr. Fig.1 % % % %	Association	Lithology and Facies	Remarks	
Rosales Dominguez et al. 1994 Pseudedomia Publication Colarogo - 1683 De Castro - 1686 De Castro - 1886 De Castro - 1986 Diley 1971 Diley 1973	Loc-Descr. Fig.1 % %	Association	Lithology and Facies	Remarks % % % % % % % % % % % % %	
Rosales Dominguez et al. 1994 Paduleatornia Publication Calaropa - 1963 De Castro - 1968 De Castro - 1988 De Castro - 1988 Dilley 1971 Dilley 1973 Dilley 1973 Picury et al. 1985	Loc-Descr. Fig.1 % % % %	Association	Lithology and Facies	Remarks % % % % % % % % % % % % %	
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De Castro 1971	Raadshoovenis	quatemalensis	van den Bold	9 9	GTM-	GEP-	fg. 18a-d	Guatemala
De Castro 1971	Raadshoovenia	salentina	(Papetti & Tedeschi)	35 late Santonian	ITA	EFP	fg. 19 14(1-4)	cave fra Ortelle e Cocumola in provincia di Lecca
De Castro 1971	Radshoovenis	guatemalensis	van den Bold	9 early Eccene	GTM-	GEP-	14(1-4)	Guatemala
De Castro 1971	Raadshoovenia	cuvillieri		32 Campanian	ESP	EFP	14(5-7)	provincia di Murcie, regione di Jumilla, Spagna
De Castro 1971	Raadshoovenia	salentina	(Papetti & Tedeschi)	35 late Santonian	ITA	EFP	14(8)	cave fra Ortelle e Cocumpla in provincia di Lecce
De Castro 1988 De Castro 1990	Raadshoovenia Raadshoovenia	salentina salentina	(Papetti & Tedeschi)	35 early Maastrichtian (or late Campanian?) 35 early Maastrichtian (or late Campanian?)	ITA	EFP	6(1-9); 7(1) pl.31, pl.32	Vitigliano, prov. De Lecce, italie Cava a Nord di Vitigliano, Lecce
De Castro 1990	Raadshoovenia	salentina		35 early Maastrichtian (or late Campanian?)	ITA	EFP	pl.33, pl.34	Cava a Nord di Vilajiano, Lecce
Fleury 1977	Raadshoovenis	?guatemalensis	%	36 late-Cretaceous	GRG-	EFP	1(8,12,13,17)	coupe du Klokova, Griechenlanc
Fleury 1977	Raadshoovenia	?guatemalencis	%	36 late Cretaceous	GRC-	EFP.	1(1)	coupe de Vitina, Griechenland
Fleury 1977	Raadshoovenis	?guatemalencis	%	36 late Cretaceous 36 late Cretaceous	GRG-	EFP.	%	coupe du Mavrovouni, Griechenlanc
Fleury 1977	Raadshoovenia	salentina	%	36 late Cretaceous 36- %	GRC	EFP	%	coupe du Klokova, Griechenlanc
Fleury 1977 Fleury 1977	Raadshoovenis Readshoovenis	guatemalensis guatemalensis			GRG-	EFP EFP EFP	1(2,5,6,8,11,15,20)	aüdlich Pylos, Griechenland Skhize, Griechenland
Fleury 1977	Radshovenis	guatemalensis	van den Bold 2	36 % 36 % 36 late Cretaceous	GRC GRC GRC	EFP.	1(3,10,18,19) 1(4)	okritez, oriestariante Dérdlich Kalamata Criechanland
Fleury 1977	Readshoovenis	2quatemalensis	34	36 late Cretareous	GRC	EEP	1(7,16)	coupe du Klokova, Griechenlanc
Fleury 1977	Raadshoovenis	?quatemalensis	%	36 late Cretaceous	GRG-	EFP	1(14)	coupe du Mavrovouni, Griechenlans
Fleury et al. 1985	Raadshoovenia	spp.	%	35 Santonian	ITA	EFP	%	Italy
Fleury et al. 1985	Raadshoovenia	spp.	%	37 Santonian	YUG	EFP	%	Yugoslavia
Fleuryet al. 1985 Fleuryet al. 1985	Raadshoovenia Raadshoovenia	spp.	% van den Bold	27 Santonian 62 Campanian	IRQ HRV	AFP EFP	% ~	l'aq external Dinarides
Fleury et al. 1985	Raadshoovenia	spp. sp. sp.	van den Bold	35 Campanian	ITA	EFP	70	externa Dinances
Fleury et al. 1985	Raadshoovenia	sp.		27 Campanian	IRQ	AFP	l %	
Fleury et al. 1985	Raadshoovenia	SP.	van den Bold	32 Campanian	ESP	EFP	%	southern Spain
Fleury et al. 1990	Raadshoovenia	sp.	%	36 late Cretaceous	GRC	EFP	%	Monts Valtou
Fleury et al. 1979	Raadshoovenia	salentina		36 late Cretaceous	GRC	EFP	%	la mottié occidentale du chaînon d'Ayios Nikolaos, Peloponne
Fleury et al. 1979	Raadshoovenis	guatemalensis	van den Bold ?	36 late Cretaceous	GRG	EFP	*	a motté occidentale du chafnon d'Aytos Nikolaos, Peloponne
Hamaoui & Fourcade 1973 Hamaoui & Fourcade 1973	Raadshoovenia Raadshoovenia	sp. salentina	van den Bold (Depetti & Tedesebi)	% %	% ESP	% FFP	2(1 2 D): N 18	% Condilières bétiques
Hamaoui & Fourcade 1973 Hamaoui & Fourcade 1973	Raadshoovenia	salentina salentina	(Papetti & Tedeschi) (Papetti & Tedeschi)	32 late Senonian 36 late Senonian	GRC	EFP	2(1,3,9); pl.18 2(2); 5(7,9,10)	Conditieres betiques Gréce continentale
Hamaoui & Fourcade 1973	Raadshoovenia	quatemalensis	van den Bold	9 early Eccene	GTM	CEP-	2(2), 5(7,8,10) 2(7,8)	Greaternale
Hamaoui & Fourcade 1973	Raadshoovenia	salentina		35 Santonian	ITA	EFP	× *	laie
Hamaoui & Fourcade 1973	Raadshoovenia	salentina	%	36 Santonian	GRC	EFP	%	les lies iniennes á Zanthe
Loeblich & Tappan 1988	Raadshoovenia	sp.		32 Campanian	ESP	EFP	%	Spain
Loeblich & Tappan 1988	Raadshoovenia	sp.		35 Campanian	ITA	EFP	%	Italy
Loeblich & Tappan 1988 Loeblich & Tarpan 1988	Raadshoovenia Raadshoovenia	sp.	van den Bold van den Bold	36 Campanian 9 2estly Engene?	GRC GTM	EFP CFP	% %	Greece
Loeblich & Tappan 1988	Raadshoovenis	sp. guatemalensis	van den Bold van den Bold	9 early Eccene	GTM	GFP.	371(1,3-4) **	Ulifiendia
Loeblich & Tappan 1988	Raadshoovenia	salentina	(Papetti & Tedeschi)	35 late Santonian	ITA	FFP	371(2)	Poggiardo, Italy
Luperto Sinni & Ricchetti 1978	Raadshoovenia	salentina	(Papetti & Tedeschi)	35 late Maastrichtian	ITA	EFP	371(2) 51(1-7)	Specchia Tarantina, SE Murgia near Martina Franca (Taranto
Pécheux 1984	Raadshoovenia	quatemalensis	%	3 Paleocene early Eocene	MEX	CFP-	*	Tuotla Guttierez
Pécheux 1984	Raadshoovenia	guatemalensis	*	3 late Paleocene and/or early Eocene	MEX MEX	GFP-	*	Integra (A1)
Pécheux 1984	Raadshoovenis	guatemalensis	%	3 late Paleocene and/or early Eocene	MEX	GEP-	4(6,9,19)	N2, Oxehue
Pécheux 1984	Raadshoovenis	guatemalensis	%	3 after late Paleocene and/or early Eccene	MEX	GEP. GEP.	4(10)	NS, Oxebue
Pécheux 1984 Pécheux 1984	Raadshoovenis	guatemalensis	9 4	4 %				N3 Oxebus
			~		MEX	OFP.		nel evene
	Raadshoovenis Readshoovenis	guatemalensis guatemalensis	*		MEX MEX	GFP-	4(1)	**
Pécheux 1984 Pécheux 1984	Radshoovenis Raadshoovenis Raadshoovenis	guatemalensis guatemalensis guatemalensis	94 94 94	6 % 2 %	MEX MEX MEX	GFP-	4 (1) 4 (2)	%,
Pécheux 1984	Raadshoovenis	guatemalencis guatemalencis guatemalencis guatemalencis	* * *	a % 3- % 4- % 6- %	MEX MEX	GFP-	4(1)	%~ %~
Récheux 1984 Récheux 1984 Récheux 1984 Récheux 1984	Raadshoovenis Raadshoovenis Raadshoovenis Raadshoovenis	guatemalencis guatemalencis guatemalencis	* * * *	3 % 3 % 3 % 3 % 3 % 4 %	MEX MEX MEX MEX	GFP GFP GFP GFP GFP	4(1) 4(2) 4(3 5,7,8,11,15,20) 4(16,17,21,23,25,27) 4(18)	%- %-
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Péchener-1984 Péchener-1984	Raadshoovanis Raadshoovanis Raadshoovanis Raadshoovanis Raadshoovanis Raadshoovanis	guatemalensis guatemalensis guatemalensis guatemalensis	Reference	Loc-No Stratigraphic Age	MEX MEX MEX MEX MEX ITA	CFP. CFP. CFP. CFP. CFP. CFP. EFP	4(1), 7 4(2) 4(357,8,11,15,20) 4(18,7,24,12,325,37) 4(18) 4(24) 1/23	% % % % % Pogglardo, Apulis
Péchene: 1884 Péchene: 1884 Péchene: 1884 Péchene: 1884 Péchene: 1884 Péchene: 1884 Péchene: 1884 Péchene: 1884 Rhapydorina Publication Bignot 1972 Bignot 1972	Readshoovenia Readshoovenia Readshoovenia Readshoovenia Readshoovenia Readshoovenia Readshoovenia Rhapydionina Rhapydionina	guatematensis guatematensis guatematensis guatematensis salertina Species liburnica liburnica	Reference % %	Loc-Ho Stratigraphic Age 63 Senorian 63 %	MEX MEX MEX MEX ITA ITA SVN SVN	CFP. CFP. CFP. CFP. CFP. CFP. EFP Faunal Province EFP EFP	4(1), 7 4(2) 4(357,8,11,15,20) 4(18,7,21,12,25,27) 4(18) 4(24) 1/23	%- %- %- %- %- %- %- %- %- %- %- %- %- %
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Péchew: 484 Péchew: 484 Péchew: 484 Péchew: 484 Péchew: 484 Sartoni & Ventuini 1988 Rhapydfornina Públication Bignot 1972 Bignot 1972 Bignot 1972	Raadishoovenia Raadishoovenia Raadishoovenia Raadishoovenia Raadishoovenia Raadishoovenia Raadishoovenia Raadishoovenia Rhapydionina Rhapydionina Rhapydionina	guatemalensis guatemalensis guatemalensis guatemalensis guatemalensis salertina Species liburnica liburnica liburnica	Reference % % %	Loc-Ho Stratigraphic Age 63 Senorrian % 63 Senorrian % 63 Senorrian	MEX MEX MEX MEX MEX IT A IT A SVN SVN SVN SVN SVN SVN	CEPL CEPL CEPL CEPL CEPL CEPL CEPL EFP EFP EFP EFP EFP EFP	4(1), 7 4(2) 4(357,8,11,15,20) 4(18,7,21,12,25,27) 4(18) 4(24) 1/23	%- %-
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Péches-1984 Rhapydorina Publication Bignot 1972 Bignot 1974 Bignot	Readshoovenie Readshoovenie Readshoovenie Readshoovenie Readshoovenie Readshoovenie Readshoovenie Readshoovenie Rhapydionina	guatemaiensis guatemaiensis guatemaiensis guatemaiensis selertina isumica	Reference % % % % % % % Stache Stache Stache Stache Stache Stache Stache Stache Stache Stache Stache Stache Stache Stache % % % % % % % % % % % % % % % % % % %	Loc-Ho Stratigraphic Age 63 Senorian 64 Senorian 65 Senorian 65 Senorian 63 Senorian 63 Senorian 63 Senorian 63 Senorian 63 Senorian 64 Senorian 65 Senorian	MEX. MEX. MEX. MEX. MEX. MEX. MEX. SVN SVN SVN SVN SVN SVN SVN SVN	CFF. CFF. CFF. CFF. CFF. CFF. CFF. CFF. EFP.	4(1) 4(2) 4(3) 4(3) 4(3) 4(3) 4(3) 5,3(1) 1(3)	% % % %
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Péches: 1984 Péches: 1984 Bignd: 1972 Bignd: 1972 Big	Readshoovenie Readshoovenie Readshoovenie Readshoovenie Readshoovenie Readshoovenie Readshoovenie Readshoovenie Rhapydionina	guatemaiensis guatemaiensis guatemaiensis guatemaiensis selertina isumica isum	Reference % % % % % % % % % % % % % % % % % % %	Loc-Ho Stratigraphic Age 63 Senorian 64 Senorian 65 Senorian 65 Senorian	MEX. MEX. MEX. MEX. MEX. MEX. MEX. SVN SVN SVN SVN SVN SVN SVN SVN	CFR. CFR. CFR. CFR. CFR. CFR. CFR. CFP. EFP.	4(1) 4(2) 4(2) 4(2) 4(2) 4(2) 4(2) 5(2) 4(2) 5(2) 4(2) 5(2) 4(2) 5(2) 4(2) 5(2) 4(2) 5(2) 4(2) 5(2)	% % % %
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De Castro 1971	*	%	*	%
De Castro 1971	%	%	%	%
De Cadro 1971	- %	%	36	%
De Castro 1971	%	%	%	%
De Castro 1971	%	%	%	%
De Castro 1988	%	%	%	%
De Castro 1990	p.14	%	white limestone with abundant micrite and some sparite, grain-supported (packstone	96
De Castro 1990	p.14	Orbitoides, Cuneolina	white limestone with micrite and some sparite, grain-supported (packstone-grainstone	%
Fleury 1977	fig. 1-	%	*	*
Fleury 1977	fig. 1-	Rhapydionina sp., Cuneolina gr. pavonis	96	%
Fleury 1977	fig. 1-	Rhapydionina sp. Cuneolina gr. pavonia	*	9 <u>4</u>
Fleury 1977	fig. 1	Raadshoovenia salentina, Cuneolina gr. pavoni;	96	
Fleury 1977	fig. 1-	Raadshoovenia salentina, Cuneolina gr. pavonii		9 <u>4</u>
Fleury 1977	fig. 1-	Rhapydionina sp., Cuneolina gr. pavonia	24	36
Fleury 1977	fig 1	Rhapydionina sp., Cuneolina gr. pavonia		<u>~</u>
Fleury 1977	fig. 1- fig. 1-	Cuneolina gr. pavonis	<u>%</u>	96
Fleury 1977	fig. 1	94		<u>~</u>
Fleury et al. 1985	fig. 1	96		96
Fleury et al. 1985	fig. 1		i i i i i i i i i i i i i i i i i i i	%
Fleury et al. 1985	fig. 1	a.	and the second se	96
Fleury et al. 1985	p.759			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Fleury et al. 1985	p.759	96	n n n n n n n n n n n n n n n n n n n	
Fleury et al. 1985	p.759	9 <u>6</u>	96	
Fleury et al. 1985	p.759	20 92		
Fleury et al. 1990	fig.1	Orbitoides	calcaires pétris de rudistes entiers accolés	96
Fleury et al. 1979	fig. 3	94	calcaires dairs à patine jaunâtre	n n n n n n n n n n n n n n n n n n n
Fleury et al. 1979	1g. 3		calcaires dans à patrine jaunâtre	96.
Hamaoui & Fourcade 1973	19:0	96	milieux mains abités, peu protonds, partois confinés, de la plateforme interne	Syn.: CuvilierinellaPapetti & Tedesch
Hamaoui & Fourcade 1973	%	96		96
Hamaoui & Fourcade 1973		96		a a a a a a a a a a a a a a a a a a a
Hamaoui & Fourcade 1973	<u>*</u>	<u>~</u>		96.
Hamaoui & Fourcade 1973	%	96		
Hamaoui & Fourcade 1973	%	96	%	96
Loeblich & Tappan 1988		%		
Loeblich & Tappan 1988	96	96		96
Loeblich & Tappan 1988		96		
Loeblich & Tappan 1988	96	94	9 <u>4</u>	96
Loeblich & Tappan 1988	94	94	×	<u>%</u>
Loeblich & Tappan 1988	96			Type species of Cuvillierinella
Luperto Sinni & Ricchetti 1978	%	%	calcare biomicritico dolomitizzato	1/pe speaks of edwillerinelie
Récheux 1984	*	<u>ar</u>	calcaires blance	normalerweise iste Oretagegus
Pécheux 1984	<u>%</u>		calculate or marks fo	normaler veise late Cretaceous
Récheux 1984	<u>%</u>		44 Million 10 Million	normaler veise late Cretaceaus
Pécheux 1984	<u>%</u>	l v	mames, sables, grès et conglomérats	eigentlich fossilfrei, normalerweise late Gretaceous
Pécheux 1984	<u>%</u>	a a	manes, sables, grès et conglomérats	eigentlich fossilfrei, normalerweise late Cretaceous
Pécheux 1984	*	20	······································	normaler veice late Cretaceous
Pécheux 1984	24			normaler veise late Cretacerus
Pécheux 1984	<u>%</u>			normaler veise late Cretaceous
Pécheux 1984	<u>%</u>	a a		normaler veise late Cretaceous
Pécheux 1984	<u>%</u>			normaler veise late Cretacecus
Pécheux 1984	34			normaler veise late Cretaceous
Sartorio & Venturini 1988		Cunenlina		%
		Press and an and a second s	· · · · · · · · · · · · · · · · · · ·	
Rhapydionina				

hapydionina

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
gnot 1972	fig.6	Cuneolina	Calcaires gris sombre ou noirs	%
ignot 1972	fg.11,12,14	Rhipidionina, Raadshoovenia	- 96	96
ignot 1972	fig.11	Raadshoovenia	Calcaires gris sombre	%
lignot 1972	fig.15	Rhipydionina	Calcaires noirs	%
lignot 1972	1g.17	Cuneolina, Rhipidionina, Raadshoovenia	Calcaires sombre	%
aignot 1972	fig.21	Rhipidionina	Calcaires sombre	96
agnot 1972	1g.97	. %	Calcaire noir	%
agnot 1972	fig.207	%	Calcaires gris	96
lignot 1972	fig.39	Rhipidionina	Calcaire cristallin	
aignot 1972	fig.11	Rhipidionina	Calcaire á ciment spathique localement microcristallin	gisment-type
lignot 1972	fig.17	%		Section Cleve
Bignot 1972	fig.11	96	a construction of the second sec	gisment-type
lignot 1972	1g.6			grantine recycle %
lignot 1972	fig.17	Rhipidionina		~
lignot 1972	fig.11,12,14	Rhapydionina, Raadshoovenia	~	~
Bignot 1972	fig.15	Rhapydionina	Calcaires noirs	20
Bignot 1972	ig.15	Cuneolina, Rhapydionina, Raadshoovenia	Calcaires nons Calcaires sombres	70
nghot 1972				20
aignot 1972	fig.21	Rhapydionina	Calcaires sombres	10
ignot 1972	fig.39	Rhapydionina	Calcaire cristallin	- · · · · · · · · · · · · · · · · · · ·
ignot 1972	fig.11	Rhapydionina	Calcaire á ciment spathique localement microcristallin	gisment-type
aignot 1972	fig.11	%	%	%
ignot 1972	fig.39	%	%	96
Bignot 1972	fig.11	%	%	gisment-type
Atterlin 1981	%	%	**************************************	
e Castro 1965	Fig.1	%	94	<u>*</u>
e Castro 1965	Fig. 1	96	QL	96
0 00010 1000	1.9.1	*	~	~
e Castro 1965	Fig. 1	%	%	%
e Cadro 1965	Fig.1	26	96	96
e Castro 1972	%	%		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
e Castro 1972	~	ac.	a	~~~~~
villey 1973				<u>%</u>
leury 1977	fig. 1	%	96	%
leury 1977	fig. 1	96.	96	
leury 1977	fig. 1	20 0L		~
leury & Godfriaux 1974	p.151	Cuneolina	calcaire gris, bleu ou blanc et de dolomie saccharoide bleu-dair à linéoles blanches	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Fleury & Godfriaux 1974	Rhapydionina	libumica	96	36	Maastrichtian	GRC	EFP		N 96	près du ravin du Xirolaki Olympou, Pelopornes, Griechenland
Fleury & Godfriaux 1974	Rhapydionina	libunica		36	Maastrichtian	GRC	EFP		00	près du ravin du Xindiaki Olympica, Pelopornes, Oriechenland
Fleury et al. 1985	Rhapydionina	libunica	30	35	Maastrichtian	ITA	EFP		%	Talv
Fleury et al. 1985	Rhapydionina	libunica	70 92	37	Maastrichtian	YUG	EFP		/0 9/	any gugoslavie
Fleury et al. 1985	Rhapydionina	libunica	~	01	Maastrichtian	ALB	EFP		~	Abenia
Fleury et al. 1985	Rhapydionina	libunica	20	36	Maastrichtian	ALD	EFP		20	Vicence
		libunica	70	36		GRC GRC	EFP		70	Greece
Fleury et al. 1985	Rhapydionina		76		Maastrichtian	ZYP			70	
Fleury et al. 1985	Rhapydionina	libumica	%	69	Maastrichtian	ZYP	EFP		%	Cyprus
Fleury et al. 1985	Rhapydionina	libumica	%	38	Maastrichtian	TUR	EFP		%	jurkey
Fleury et al. 1985	Rhapydionina	sp.	%	27	Maastrichtian	IRQ	EFP		%	Iraq
Fleury et al. 1979	Rhapydionina	libumica	(Stache)	36	late Cretaceous	GRC	EFP		%	la moltié occidentale du chaînon d'Avios Nikolaos, Peloponne
Fleury et al. 1990	Rhapydionina	libumica	(Stache)	36	Maastrichtian	GRC	EFP		%	(Savrovo-Tripolitza
Gusic & Jelaska 1990	Rhapydionina	libumica	%	62	Maastrichtian	HRV	EFP		19(6)	Island of Brac
Gusic & Jelaska 1990	?Rhapydionina	libumica	%	62	Maastrichtian	HRV	EFP		20(2)	Island of Brac
Gusic et al. 1988	Rhapydionina	libumica	%	62	Maastrichtian	HRV	EFP		2(11)	Island of Brac
Hamaoui & Fourcade 1973	Rhapydionina	sp.	%	%	%	%	-	%	%	%
Hamaoui & Fourcade 1973	Rhapydionina	libumica	(Stache)	36	Maastrichtian	GRC	EFP		pl. 1	Carpatos, Grèce
Hamaoui & Fourcade 1973	Rhapydionina	libumica	(Stache)	37	late Senonian	YUG	EFP		10(1,2,4,5,7); 11(2,4); 13(1,4,7); 14(2-9)	Yougoslavie
Hamaoui & Fourcade 1973	Rhapydionina	libumica	(Stache)	36	late Senonian	GRC	EFP		10(3,6,8,9); 11(3,5,6,7); 13(2,3); 14(1)	Carpatos, Grèce
Hamaoui & Fourcade 1973	Rhapydionina	libumica	(Stache)	36	late Maastrichtian	GRC	EFP		12(1a,2,4-6)	Carpatos, Grèce
Hamaoui & Fourcade 1973	Rhapydionina	libumica	(Stache)	36 37	late Maastrichtian	YUG	EFP		12(3)	Yougoslavie
Hamaoui & Fourcade 1973	Rhapydionina	libumica	(Stache)	62	Maastrichtian	HRV	EFP		16(2,5-7)	Istrie
Hamaoui & Fourcade 1973	Rhapydionina	libumica	(Stache)	37	Campanian to Maastrichtian	YUG	EFP		pl.19	Yougoslavie
Hamaoui & Fourcade 1973	Rhapydionina	libumica	(Stache)	37	late Maastrichtian	YUG	EFP		pl.21	Yougoslavie
Hamaoui & Fourcade 1973	Rhipidionina	sp.	(olddio) %	37	Campanian-Maastrichtian	YUG	EFP		96	/ougostavie
Hamaoui & Fourcade 1973	Rhipidionina	SP.	96	36	Campanian-Maastrichtian	GRC	EEP		96	Grèce
Hamaoui & Fourcade 1973	Rhipidionina	libumica	(Stache)	36 36	Maastrichtian	GRC	EFP		pl.6, fig.1,4	Carpatos, Grèce
Hamaoui & Fourcade 1973	Rhipidionina	libumica	(Stache)	36	Maastrichtian	GRC	EFP		pl.6, fig.2	Grèce
Hamaoui & Fourcade 1973	Rhipidionina	libunica	(Stache)	27	late Senonian	YUG	FFP		pl.6, fig.3	Vougoslavie
Ho et al. 1976	Rhapydionina	urensis	Henson	48	Nate Senonian %	CHN	ASP.		1(9,10,17)	Nount-Johns Lungma-region
Ho et al. 1976	Rhapydionina	elliptica	n.sp.	48	a.	CHN	ASP		1(11 14)	Acurt John Jungan region
Kalantari 1976	Rhipidionina	5D-	84		middle-Eogene	IRN	AEP.		37(3)	Sarvestan area. SVI Iran
Kalantari 1976	Rhapydionina	urensis var. minima	Henson	20	middle Eccene	IRN	AFP		38(4)	partostararea, primar
Kalantari 1976	Rhipidionina	urensis	Henson	56 56 56	middle Eocene	IRN	AEP.		38(9,11); 39; 41(1)	Sarvestar area. SVIran
Landrein et al. 2001		50	%	36	late Campanian-Maastrichtian	GRC	EFP		fg.6, C,D	
Landrein et al. 2001	Rhapydionina Rhapydionina	ibumica	Stache	30	late Maastrichtian	GRC	FFP		IIG.0, C,D	Orèce
Loeblich & Tappan 1988	Rhapydionina	sp.	Stache	30	late Cenomanian-Maastrichtian	YUG	EFP		70 0/	orece Vugoslavia
Loeblich & Tappan 1988	Rhapydionina	sp.	Stache	36	late Cenomanian-Maastrichtian	GRC	EFP		~	logosana Greece
Loeblich & Tappan 1988	Rhapydionina	sp. Sp	Stache	30	late Cenomanian-Maastrichtian	UTA	EFP		20 07	italy
Loeblich & Tappan 1988	Rhapydionina	ibumica	(Stache)	35 37	late Senonian	ITA YUG	EFP		370(1-11)	ica y Yuoslavia
Luperto Sinni 1965	Rhapydionina	indunica	(Statule)	35	early Senonian	ITA	EFP		5/0(I-II) or	negrosama near Atamura, district of Bari, Murge
Luperto Sinni 1965 Luperto Sinni 1968		loh.	%		Senonian	ITA	EFP		%	
Luperto Sinni 1968	Rhapydionina Rhipidionina	sp. sp.	~	35 35	Senonian	ITA	EFP		20 00	Murge Murge
	-		20						76	
Mavrikas et al. 1994	Rhapydionina	libumica	(Stache)	36	late Maastrichtian	GRC	EFP		%	Ori Vatiou
Reichel 1984	Rhapydionina	liburnica	(Stache)	63	Maastrichtian	SVN	EFP		diverse Abb.	/remski-Britof
Sartorio & Venturini 1988	Rhapydionina	libumica	(Stache)	63	Maastrichtian	SVN	EFP		p. 130	/remski-Britof
Seiglie & Ayala Castanares 1963	Rhapydionina	sp.	*	4	Maastrichtian	CUB	CEP.		1(1)	Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la carretera Central, La Haban
Zambetakis-Lekkas 1988	Rhapydionina	libumica	%	36	late Maastrichtian	GRC	EFP		%	Coupe de Chrissovitsi
Zambetakis-Lekkas 1988	Rhapydionina	libumica	%	36	late Maastrichtian	GRC	EFP		%	Coupe de Myticas-Angelokastro
Zam betak is-Lekkas 1988	Rhapydionina	libumica	%	36	late Maastrichtian	GRC	EFP		%	Coupe de Kamenitsa
							part 1			· ·

Subalveolina

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Publication	Genus	Species	Reference	Loc-No	Stratigraphic Age	Country	Faunal Province	Illustration	Site
Barrier & Neumann 1959	Subalveolina	dordonica	Reichel	31	Santonian	FRA	EFP	%	Dordogne (Lalinde, Limeuil, Le Buque, Le Buisson, Saint-Cyprien)
Caus & Hottinger 1986	Subalveolina	sp.	%	31	Santonian-Campanian	FRA	EFP	%	Aguitania
Caus & Hottinger 1986	Subalveolina	sp.	%	68	Santonian-Campanian	MEX	CFP	%	Mexico
Dilley 1973	Subalveolina	sp.	Reichel	%	Campanian	%	EFP	%	Southern Europe
Fleury et al. 1985	Subalveolina	sp.	Reichel	31	Santonian-early Campanian	FRA	EFP	%	Aquitaine
Loeblich & Tappan 1988	Subalveolina	sp.	Reichel	31	late Santonian-Campanian	FRA	EFP	%	France
Loeblich & Tappan 1988	Subalveolina	dordonica	Reichel	31	Campanian	FRA	EFP	384(3-6)	Dordogne, France
Reichel 1936	Subalveolina	dordonica	n.sp.	31	Campanian	FRA	EFP	4(1-4)	Belvès (Dordogne)
Reichel 1953	Subalveolina	pérébaskini	n.sp.	31	Santonian	FRA	EFP	13(1,2); 14(1-7)	Mondihan (Haute Garonne)
Séronie-Vivien 1972	Subalveolina	dordonica	%	31	Campanian	FRA	EFP	%	Ecoute-s'il-pleut (Saint-Germain-de-Belvès)
Séronie-Vivien 1972	Subalveolina	dordonica	%	31	Campanian	FRA	EFP	%	Ecoute-s'il-pleut (Saint-Germain-de-Belvès)
Séronie-Vivien 1972	Subalveolina	dordonica	%	31	Campanian	FRA	EFP	%	Ecoute-s'il-pleut (Saint-Germain-de-Belvès)
Séronie-Vivien 1972	Subalveolina	dordonica	%	31	Campanian	FRA	EFP	%	Ecoute-s'il-pleut (Saint-Germain-de-Belvès)
Séronie-Vivien 1972	Subalveolina	dordonica	%	31	Campanian	FRA	EFP	%	Belvès-Ville
Séronie-Vivien 1972	Subalveolina	dordonica	%	31	Campanian	FRA	EFP	%	Route de Fongauffier (Belvès)

Meandropsina

Publication	Genus	Species	Reference	Loc-No	Stratigraphic age	Country	Faunal Province	Illustration	Site
Barrier & Neumann 1959	Meandropsina	sp.	%	31	Maastrichtian	FRA	EFP	%	Dordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien)
Brönnimann 1954b	?Meandropsina	rutteni	Palmer	1-	Maestrichtian	CUB	CEP.	*	Santa Clara (Las Villas) Province, Canagücy Province
Brönnimann 1954b	?Meandropsina	rutteni	Palmer	1	late Cretaceous	CUB	CEP.	%	near Habana
Brönnimann 1954b	?Meandropsina	rutteni	Palmer	4	Middle late Maestrichtian	CUB	CFP.	%	Cuba
Caus & Cornella 1983	Meandropsina	vidali	%	32	Santonian; 82-78 Ma	ESP	EFP	%	Sierra del Montsec, Sierras Marginales; bassin S-pyrénéer
Caus & Hottinger 1986	Meandropsina	sp.	%	31/32	Santonian-Campanian		EFP	%	3 olfo pirenaico
Caudri 1944	?Meandropsina	rutteni	Palmer	68-	Mæstrichtian	MEX.	CEP.	%	Mexico
Caudri 1944	?Meandropsina	rutteni	Palmer	4	Maestrichtian	CUB	CFP-	*	Cuba
Dilley 1973	Meandropsina	sp.	Munier-Chalmas	%	Cenomanian-Maastrichtian	%	%	%	Southern Europe, Middle East
Gaetani et al. 1980	?Meandropsina	sp.	*	73	late Maastrichtian	CHN	ASP.	11(4b)	Kangi Chu, Zanskar Range (Ladakh Himalaya)
Gaetani et al. 1980	?Meandropsina	sp.	*	73	late Maastrichtian	CHN	ASP-	%-	Kangi Chu, Zanekar Range (Ladakh Himalaya)
Hottinger 1966	Meandropsina	vidali	%	32	Santonian	ESP	EFP	%	Sierra del Montsech
Loeblich & Tappan 1988	Meandropsina	sp.	Munier-Chalmas	32	Senonian	ESP	EFP	%	Spain
Loeblich & Tappan 1988	Meandropsina		Munier Chalmas	56-	Senonian	IRN	EFP	×	Iran
Loeblich & Tappan 1988	Meandropsina	vidali	Schlumberger	32	Senonian	ESP	EFP	399(3-7)	rago di Noguera, Spain

	Appendix
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	Tables
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her	1			
Fleury & Godfriaux 1974	p.151	*	calcaire à débris de Rudistes et de calcaire bréchique à pâte blanche	%
Fleury & Godfriaux 1974	p.151 fig. 4	%	calcaire bleu et noir et de calcaire dolomitique bleu à patine roussâtre	%
Fleury et al. 1985	fig. 4	96	%	%
Fleury et al. 1985	fig. 4	96	%	%
Fleury et al. 1985	fig. 4 fig. 4	%	%	%
Fleury et al. 1985	fia. 4	%	%	%
Fleury et al. 1985	fig. 4	96	96	96
Fleury et al. 1985	fo A	ac.		a <u>c</u>
Fleury et al. 1985	fig. 4 fig. 4		~	~
Fleury et al. 1905	119. 4 4- 4	76	70	70
Fleury et al. 1985	fig. 4	70	76	70
Fleury et al. 1979	fiq. 3	Laffteina	niveaux blanc où attement de nouveau dolomies, calcaires "rubannés", parfois bréchique	%
Fleury et al. 1990	%	%	%	%
Gusic & Jelaska 1990	%	%	packstone	keine genaue Lokalität
Gusic & Jelaska 1990	%	96	%	Syn.: Rhipidionina liburnica
Gusic et al. 1988	Fig. 1	Cuneolina	skeletal wackestone; restricted platform, shallow subtidal,	%
			probably with fresh-water (brackish) influence	
Hamaoui & Fourcade 1973	96	0/.		Espèce-type: Peneroplis liburnica Stache
Hamaoui & Fourcade 1973	, . 	~~~~	~	c speciel type: P cher ophis input rice station in
Hamaoul & Fourcaue 1975	70	70	20	70
Hamaoui & Fourcade 1973	76	%	%	%
Hamaoui & Fourcade 1973	%	%	%	%
Hamaoui & Fourcade 1973	%	%	%	%
Hamaoui & Fourcade 1973	96	96	96	96
Hamaoui & Fourcade 1973	96	96	96 M	96
Hamaoui & Fourcade 1973	10 07	70	~	
	20	70	20	70
Hamaoui & Fourcade 1973	76	1 %	26	× · · · · · · · · · · · · · · · · · · ·
Hamaoui & Fourcade 1973	%	%	%	Espèce-type: Pavonina liburnica Stache
Hamaoui & Fourcade 1973	%	96	%	Espèce-type: Pavonina liburnica Stache
Hamaoui & Fourcade 1973	%	%	%	%
Hamaoui & Fourcade 1973	%	%	%	%
Hamaoui & Fourcade 1973	%	96	96	%
Hostal. 1976	*	97	94.	<u> </u>
Ho et al. 1976	9 <u>6</u>	9 <u>~</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>~</u>
Kalantari 1976		marlylimedone		~~~~~
Kalantari 1976	Fig.1 Fig.1 Fig.1	many integrate	*	*
Kalantari 1976	rig. 1	346		**
		*	%-	9%
Landrein et al. 2001	%	%	%	biozone à Murciella
Landrein et al. 2001	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	96	96	96	96
Luperto Sinni 1965	96	Cuneolina	calcare stratigrafico bianco, compatto, a tratti parzialmente dolomiti zzato	
Luperto Sinni 1968	70	Nummofallotia, Dictyopsella, Cuneolina, Rhipidionina, Siderolites	white bedded Rudist limestone; neritic, shallow, temperate-warm	0 0
	70			** **
Luperto Sinni 1968	76	Nummofallotia, Dictyopsella, Cuneolina, Siderolites	white bedded Rudist limestone white bedded Rudist limestone;	76
			neritic, shallow, temperate-warm neritic, shallow, temperate-warm	
Mavrikas et al. 1994	Fig.1	%	limestones and dolomites; protected lagoonal vaters	%
Reichel 1984	%	%	%	%
Sartorio & Venturini 1988	%	%	%	%
Seiglie & Ayala Castanares 1963	p.15	Omphalocyclus, Orbitoides, Lepidorbitoides, Pseudorbitoides, Vaughanina, Sulcoperculin	Calcirudita a calcarenita, dura, consolidada, color gris clarc	
Zambetakis-Lekkas 1988	Fig. 1	a a a a a a a a a a a a a a a a a a a	%	
			~	~
	Fig.1	96		96
Zambetakis-Lekkas 1988	Fig. 1	96	%	%
	Fig. 1 Fig. 1	%	%	% %

Subalveolina

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Barrier & Neumann 1959	%	Dictyopsella, Nummofallotia cretacea	calcaires assez inement grumeleux	%
Caus & Hottinger 1986	%	%	%	%
Caus & Hottinger 1986	%	%	96	%
Dilley 1973	table II	%	%	%
Fleury et al. 1985	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Reichel 1936	fig. 3	%	calcaire friable, jaune	%
Reichel 1953	%	Lacazina elongata	%	%
Séronie-Vivien 1972	p. 116	%	Calcaire gréseux	%
Séronie-Vivien 1972	p.116	Dictyopsella, Nummofallotia	Calcaire pelletique à bioclastes, glauconieu:	%
Séronie-Vivien 1972	p. 116	%	Calcaire mameux glauconieux	96
Séronie-Vivien 1972	p. 116	%	Calcaire mameux en plaquettes	%
Séronie-Vivien 1972	p.116	%	Calcaire noduleux, gris, gréseux, glauconieu:	%
Séronie-Vivien 1972	p.121	%	Calcaire beige et marnes sableuse:	96

Meandropsina

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Barrier & Neumann 1959	%	Nummofallotia cretacea, Siderolites	calcaires détritiques plus ou moins gréseux	%
rönnimann 1954b	*	Lepidorbitoides, Pseudorbitoides, Orbitoides, Sulcoperculina, Vaughanin		type species of Ayalains
rönnimann 1954b	%	Vaughanina, Sulcoperculina	\$	type-species of Availains
önnimann 1954b	%	Vaughanina, Sulcoperculina	*	type species of Ayalaina
aus & Comella 1983	%	Cuneolina, Didtyopsella, Siderolites, Omphalocyclus	%	%
aus & Hottinger 1986	%	%	%	%
audri 1944	*	Lepidorbitoides	*	type species of Ayalaina
audri 1944	%	Orbitoides, Pseudorbitoides, Vaughanina, Omphalocyclus, Lepidorbitoides	*	type species of Ayalaina
illey 1973	Table 2	%	%	%
aetani et al. 1980	Fig.1	Omphalocyclus	depressed area surrounded by shallow water complex,	%
	-		poorly oxygenated conditions	
aetanietal. 1980	Fig.1	Omphalocyclus	depressed area surrounded by shallow/water complex.	×.
	-		poorly oxygenated conditions	
ottinger 1966	Fig. 2	Nummofallotia, Sulcoperculina	calcaires plus ou moins marneux ou détritiques de couleur sombre	%
eblich & Tappan 1988	%	%	96	%
eblich & Tappan 1988	%	*	*	%
oeblich & Tappan 1988	%	%	%	%

Renz 1936	Meandropsina	vidali	Schlumberger	58-	Mæstrichtian	GHE-	6FP. 6FP.	33(3-6)	A farmée
Renz 1936	Meandropsina	sp.	*	32 39	Santonian	ESP PRI	EFP.	%	Trago di Noguera, Catalonien, Spanien
Renz 1936	Meandropsina	60.	*	38	%	PRI	EFP.	*	Fortugal
Renz 1936 Renz 1936	Meandropsina ?Meandropsina	ep. n.sp.aff.Nonionina.cretacea	Schlumberger	34- 50	Maestrichtian	ERA CHE	EFP EED	30(3); 31(3); 33(1,2); bttfig. 5b	Belvěs, Frankreich /Jitermán
Schlumberger 1898	Meandropsina	vidali	Schlumberger	30	Senonian		EFP	8(1-3) 9(4-6)	Trago di Noguera
Schlumberger 1899	Meandropsina	Mdali		32	Santonian		EFP.	8(2), 9(11,14)	Trage of Noquera
			-						
Nummofallotia	Nurmafalotia								
Publication	Genus	Species	Reference	Loc-No	Stratigraphic Age	Country	Faunal Province	Illustration	Site
Azema et al. 1979	Nummofallotia	cretacea	(Schlumberger)	32	Senorian	FSD	FED	41(16)	Sierra de Calderón
Barrier & Neumann 1959	Nummofallotia	cretacea	(Schlumberger)	31	Senonian	FRA	EFP	1(1-9), 2(10-16)	Dordogie (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Barrier & Neumann 1959	Nummotallotia	cretacea	(Schlumberger)	31-	Coniacian		EFP.	*	Fordogne (Lalinde, Limeuil, Le Bugue, Le Buiscon, Saint Cyprien) France
Barrier & Neumann 1959	Nummofallotia	cretacea		31	Santonian		EFP	%	Dordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Barrier & Neumann 1959	Nummofallotia	cretacea	(Schlumberger)	31	Santonian		EFP	%	Dordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Sairt-Cyprien) France
Barrier & Neumann 1959 Barrier & Neumann 1959	Numm of allotia Numm of allotia	cretacea cretacea		31 31	Campanian Campanian		EFP EFP	76	Dordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France Dordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Barrier & Neumann 1959	Nummofallotia	cretacea	(Schlumberger)	31	Maastrichtian		EFP	76	Dordogne (Lainde, Lineuit, Le Bugue, Le Buisson, Saint-Cypiten) France
Barrier & Neumann 1959	Nummofallotia	cretacea	(Schlumberger)	31	Maastrichtian		EFP	%	Dordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Bignot 1972	Nummofallotia	cretacea	%	63	Senonian		EFP	%	Coupe de Divaca
Caus & Vicens 1984	Nummofallotia	cretacea	%	32	late Santonian		EFP	%	La Trilla; Castell de Bac Grillera, Pirineos Catalanes
Caus & Vicens 1984 Caus & Vicens 1984	Numm ofallotia Numm ofallotia	cretacea cretacea	%	32	early Campanian Campanian		EFP	76	La Trilla; Castell de Bac Grillera, Pirineos Catalanes La Trilla; Castell de Bac Grillera, Piríneos Catalanes
Dilley 1971	Nummotallotia	sp.	%	32 %	Senonian		EFP	%	La rina, claser de bacioniera, Printeos catalaries Europe
Dilley 1973	Nummofallotia	sp.	Barrier & Neumann	%	Santonian-Maastrichtian	%	EFP	× ×	southern Europe
Fleury et al. 1985	Nummofallotia	cretacea	(Schlumberger)	%	Santonian-early Campanian		EFP	%	western Tethys
Gendrot 1965	Nummofallotia	cretacea	···· *	31	Santonian		EFP	5(1)	Region des Martigues (Bouches-du-Rhone)
Gendrat 1965 Gendrat 1985	Numm of allotia	cretacea	(Schlumberger)	31	Santonian		EFP	14(6)	L'étang de Berre
Gendrat 1965 Gendrat 1965	Numm ofallotia Numm ofallotia	cretacea cretacea	(Schlumberger) (Schlumberger)	31	Santonian late Santonian	FRA FRA	EFP EFP	14(7) 14(8)	Sud de l'étang de Caronte L'étang de Berre
Gendrat 1965	Nummofallotia	cretacea	%	31	Santonian	FRA	EFP	23(1-3)	Region des Martigues (Bouches-du-Rhone)
Gendrot 1968	Nummofallotia	cretacea	(Schlumberger)	31	Turonian-Santonian	FRA	EFP	10(12-14)	Région des Martiques près Marseille (Bouches-du-Rhône
Gischler et al. 1994	Nummofallotia	sp.	%	32	%	ESP	EFP	40(2)	Basco-Cantrabrian and Iberian basins, N Spain
Gischler et al. 1994	Nummofallotia	sp.	%	32	%		EFP	40(5)	Basco-Cantrabrian and Iberian basins, N Spain
Gischler et al. 1994 Gowde 1964	Nummofallotia	sp. malmousteri	(Hofer)	32 44	% Meestrichtien	ESP IND-	EFP ASP-	40(6) %	Basco-Cantrabrian and Iberian basins, N Spain Trichinggoly district-near the village of Kallagurshi
Gowda 1964	Nummofallotia	SP. ROY.	(1086) %	44	Maestrichtian	IND	ASP		Inchinopoly district, near the village of Kallsourch
Gowda 1964	Nummofallotia	SP. ROY.	*	44	Maastrichtian		ASP.	94	Trichinopoly district, village of Vilangudi
Gusic & Jelaska 1990	Nummofallotia	apula	Luperto Sinni	62	Campanian	HR∀	EFP	14(6-7)	Island of Brac
Gusic & Jelaska 1990	Nummofallotia	apula	%	62	Maastrichtian		EFP	20(1)	Island of Brac
Gusic et al. 1968 Gusic et al. 1968	Nummofallotia Nummofallotia	apula apula-cretacea	*	62	early Senonian Campanian	HRV HRV	EFP	%	I sland of Brac I sland of Brac
Hotker 1966	Nummofallotia	apua-d etacea	%	62 57	Dano-Maestrichtian	NLD	EFP	%	Issent of order ENC.1. guerry, Lichtenberg section
Hofker 1966	Nummofallotia	cretacea	%	57	%	NLD	EFP	%	Kunrade-chaik
Hofker 1966	Nummofallotia	cretacea	%	57	Dano-Maestrichtian	NLD	EFP	%	Abert Canal, cutting of Caster and Vroenhover
Hofker 1966	Nummofallotia	cretacea	%	57	Dano-Maestrichtian		EFP	%	Biebosch
Hofker 1966 Hofker 1966	Nummofallotia Nummofallotia	cretacea cretacea		57 57	Dano-Maestrichtian Dano-Maestrichtian	NLD	EFP	%	Windhagen, north of Windhagen
Hofker 1966	Nummotallotia	cretacea		57	Dano-Maestrichtian		EFP EFP	76	cuarry Franssen-Nelissen ce Tombe (37)
Hofker 1966	Nummofallotia	cretacea		57	%	NLD	EFP	%	Rooth G8)
Hofker 1966	Nummofallotia	cretacea	%	57	Dano-Maestrichtian	NLD	EFP	%	E.N.C.I. quarry, Lichtenberg section (39)
Hofker 1966	Nummofallotia	cretacea	%	57	Dano-Maestrichtian	NLD	EFP	%	Well Fortress St. Pieter, drill-hole G B. 194 (40)
Hofker 1966 Hofker 1966	Numm of allotia Numm of allotia	cretacea cretacea	*	57 57	Dano-Maestrichtian Dano-Maestrichtian	NLD NLD	EFP EFP	%	cuarry van der Zwean (41)
Hofker 1966	Nummotallotia	cretacea	%	57	Dano-Maestrichtian	NLD	EFP	%	Valkenburg, municipal grotto (42) cuarry Curts (44)
Hotker 1966	Nummofallotia	cretacea	%	57	Dano-Maestrichtian		EFP	%	Kerdeberg (45)
Hofker 1966	Nummofallotia	cretacea		57	Dano-Maestrichtian	NLD	EFP	%	nine shaft Maurits III (49)
Hofker 1966	Nummofallotia	cretacea		57	Dano-Maestrichtian		EFP	%	nine shaft Maurits III (56)
Hofker 1966 Hofker 1966	Numm of allotia Numm of allotia	cretacea cretacea		57 57	Dano-Maestrichtian Dano-Maestrichtian	NLD NLD	EFP EFP	%	Kunrade, Kunderberg (57)
Hofker 1966	Nummofallotia	cretacea	%	57	Dano-Maestrichtian	NLD	EFP	%	Welterberg, well I and well II (58) crill-hole Rivieren, G.B. 3752 (59)
Hotker 1966	Nummofallotia	cretacea	~	57	Dano-Maestrichtian	NLD	EFP	%	shaft and IV, State Mine Hendrik (60)
Hofker 1966	Nummofallotia	cretacea	%	57	Dano-Maestrichtian	NLD	EFP	%	shaft I + II, State mine Emma (62)
Hofker 1966	Nummofallotia	cretacea	%	57 57	Dano-Maestrichtian	NLD	EFP	%	crill-hole Heisterbrug, S.M. XVII (63)
Hofker 1966 Hofker 1966	Nummofallotia Nummofallotia	cretacea cretacea	*	₩ 57	Paleocene Dano-Maestrichtian	NLD NLD	EFP EFP		crill-hole Puth, S.M. XVII (64) crill-hole Geleen-Centrum, S.M. XVI (66)
Hofker 1967	Nummotallotia	cretacea	76 (Schlumberger)	32	late Santonian		EFP	%	Falleresa River, Sierra de Montsech, Lérida
Hottinger 1966	Nummofallotia	sp.	*	32	Cenomanian Turonian?	ESP.	EFP	%	Sierra del Montese
Hottinger 1966	Nummofallotia	sp.	%	32	Santonian	ESP	EFP	%	Sierra del Montsech
Loeblich & Tappan 1988	Nummofallotia	sp.	Barrier & Neumann Barrier & Neumann	32	Coniacian-Maastrichtian	ESP	EFP	%	Spain Farmer C
Loeblich & Tappan 1988 Loeblich & Tappan 1988	Nummofallotia Nummofallotia	sp.	Barrier & Neumann Barrier & Neumann	31 67	Coniacian-Maastrichtian Coniacian-Maastrichtian	FRA NLD	EFP EFP	*	France Netherlands
Loeblich & Tappan 1988	Nummotallotia	sp. cretacea	Barrier & Neumann (Schlumberger)	31	Conladan-Maastrichtian Senonian	FRA	EFP	400(1-4)	Vetnenands Dordcane France
Loeblich & Tappan 1988	Nummofallotia	cretacea	(Schlumberger)	32	Senonian		EFP	400(5,6)	Trago di Noguera, Spain
Luperto Sinni 1968	Nummofallotia	apula	n. sp.	35	Maastrichtian		EFP	1(1,5); 2(2,4)	200 m N oflazzo Nuovo
Luperto Sinni 1968	Numm of allotia	apula		35	Maastrichtian	ITA ITA	EFP	2(6)	500 m. No filazzo Nuovo
Luperto Sinni 1968 Luperto Sinni 1968	Numm ofallotia Numm ofallotia	apula		35 35	Maastrichtian Maastrichtian		EFP EFP	1(3) 1(2)	lazzo Nuovo Farco Grassaturo
Luperto Sinni 1968	Nummotallotia	apula apula		35	Maastrichtian	ITA	EFP	1(2) 1(4,6); 2(1,3,5); 3(1,3,4)	Farco Grassaturo Massia S. Teresa
Luperto Sinni 1968	Nummofallotia	apula	n.sp.	35	Maastrichtian	ITA	EFP	3(2)	rearkm 598 on the SS 7 (Appia)
Luperto Sinni 1968	Nummofallotia	apula	n.sp.	35	Maastrichtian	ITA	EFP	3(6)	Massia Don Luca
Luperto Sinni & Ricchetti 1978	Nummofallotia	apula	Luperto Sinni	35	Santonian		EFP FFP	45(11)	Specchia Tarantina, SE Murgia near Martina Franca (Taranto); Lat. 40°37'24'', Long. 4°58'14'
Luperto Sinni & Ricchetti 1978	Nummofallotia	apula	Luperto Sinni Schlumberger	35 36	Santonian Iste Meestrichtien	ITA GRC	EFP	45(12,13)	Specchia Tarantina, SE Murgia near Martina Franca (Taranto); Lat. 40°37'24'', Long. 4*58'14' Ori Vatou
Mavrikas et al. 1994 McGowran 1968	Nummofallotia	cretacea sp.		36 44	late Maastrichtian Maastrichtian		EFP ASP	%	On Valtou Trichinopoly district, South India
Renz 1936	Meandropsina	vidali	Schlumberger	58	Maestrichtian	CHE	EFP	33(3-6)	Miemie
Renz 1936	?Meandropsina	n.sp.aff.Nonionina cretacea	Schlumberger	58	Maestrichtian	CHE	EFP	30(3); 31(3); 33(1,2); txtfig. 5b	لل temée
Ricchetti & Luperto Sinni 1979	Nummofallotia	apula	Luperto Sinni	35	early Maastrichtian	ITA IRN	EFP	%	Murgia and Peninsular salentina (S Italy)
Sartorio & Venturini 1988 Sartorio & Venturini 1988	Nummofallotia Nummofallotia	apula	Euperio Sinni	36	late Cenomanian early Senonian	HT A	AFP EFP	Page 111 Page 113	K uh e Shurom 2 well Campania
Santono & Ventunni 1988 Schlumberger 1899	Nonionina	sp. cretacea	% Schlumberger	32	Santonian	ESP	EFP	8(1): 11(21.22)	sampania Trago di Noguera, Spain
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Santonien		EFP	%	Saintes
Sáronia Visian 1079	Nummofallatia	rratarea	l %.	94	Centorien	FRA	FFD	l 02	Ceinter Chatasu disau

Renz 1936 Renz 1936 Renz 1936 Renz 1936 Renz 1936	p. 545	36	dunkelgrauer-Kalk	Nummofallotia
Renz 1936	×	%		*
Renz 1936	%	%	%	%
Renz 1936	*	%	%	%
Renz 1936	p. 545	×.	26	Nummofallotia
Schlumberger 1898	p. 336	%	%	genus definition
Schlumberger 1899	*	¥.	%-	Fallotia?

Nurrmofallotia

Nummofallotia							
Publication	Loc-Descr.	Association	· · · · · · · · · · · · · · · · · · ·	itholom/	and Facies	Ren	narks
Azema et al. 1979	%		6	Echology	%	Kan	*
Barrier & Neumann 1959	%		×		%		%
Barrier & Neumann 1959			~ ¥	Calcaires détritiques			*
Barrier & Neumann 1959	%	Orbitoides tissati		calcaires lithoides		· · ·	%
Barrier & Neumann 1959	%	Dictyopsella, Subalveolina dordonica		calcaires assez finement grumeleux		. · · ·	%
Barrier & Neumann 1959	%	Siderolites		calcaires grumeleux plus ou moins fins			%
Barrier & Neumann 1959	%	Cuneolina, Dictyopsella, Siderolites		calcaires grumeleux plus ou moins gréseux et grossiers		· ·	%
Barrier & Neumann 1959	%	Dictyopsella, Siderolites, Orbitoides media		calcaires finement grumeleux			%
Barrier & Neumann 1959	%	Meandropsina, Siderolites		calcaires détritiques plus ou moins gréseux			6
Bignot 1972	Fig. 11		6	Calcaires gris clair			%
Caus & Vicens 1984	%	Dictyopsella		attemancia de microconglomerados rojos y areniscas ocre	es con matriz limosa	Mächtigkeit konstant, 24 m	
Caus & Vicens 1984	70	Dictyopsella Orbitoides		calizas margosas grises	Stee de celer grie : , core	Mächtigkeit 10-25 m	or
Caus & Vicens 1984 Dilley 1971	76 96	Urbitoides	v	altemancia de areniscas y calcarenitas con margas y limo	%		<u>6</u>
Dilley 1973	Table 2		6 K		% %		2
Fleury et al. 1985	Fig. 2	Dictyopsella kilian	·····		%		*
Gendrot 1965	Fig. 1	o let jopton a kinen	6	Calcaire argileux	~		%
Gendrat 1965	Fig. 1		6		%		%
Gendrot 1965	Fig. 1		6		%		8
Gendrat 1965	Fig. 1		6		96	· · · · · · · · · · · · · · · · · · ·	%
Gendrot 1965	Fig. 1		6		%	·	%
Gendrat 1968	Fig. 1		6		%		%
Gischler et al. 1994	Fig. 1		6	packstone; shallowmarine carbonate ramp			6
Gischler et al. 1994	Fig. 1		6	wackestone; shallowmarine carbonate ramp			10
Gischler et al. 1994	Fig. 1	· · · · · · · · · · · · · · · · · · ·	16	wackestone; shallowmarine carbonate ramp	~		<u>6</u>
Gowda 1964	Page 305	Lepidorbitoides, Orbitocyclina, Siderolites			%		%
Gowda 1964	Page 305	Lepidorbitoides, Orbitocyclina, Siderolites			%		*
Gowda 1964 Gurdo 8. Jelenka 1990	Page 307 %		% %	Limestone	%	keine genaue Lokalität	*
Gusic & Jelaska 1990 Gusic & Jelaska 1990	70		no Ka	wackestone	%	keine genaue Lokalität keine genaue Lokalität	
Gusic et al. 1988	70 Fig. 1	Cuneolina	··		%	None genade Lukanda	*
Gusic et al. 1988	Fig.1	Cuneolina		wackestone; back-reef ("lagoon")	20		*
Hofker 1966	p.81;fig.51,1-7,fig. 52		6	Macricatoric, back-reci (lagoorr)	%		*
Hofker 1966	96		6		%		%
Hofker 1966	p.84;fig.53,1-2,fig.95		6		%	·	%
Hofker 1966	fig.62		6		%		%
Hofker 1966	p.127,figs.75,76		16		%		%
Hofker 1966	p.130;figs.85,1;86		16		%	· ·	%
Hotker 1966	p.133 figs.92,93		6		%		%
Hofker 1966	p.158; fig.85,8		6		%		6
Hotker 1966	p.158;fig.51,4;52		6		%		6
Hofker 1966	p.159;figs.96,1;97		76		%		<i>h</i>
Hofker 1966 Hofker 1966	p.159;figs.96,2;98 p.171;fig.99		76 V		76		/o av
Hotker 1966	p.177; figs.101,102		/6 V		76 97		10 27
Hofker 1966	p.173;figs.103,104		ю И		26 97		-0 ar
Hofker 1966	p.214		10 K		76 96		20 20
Hofker 1966	96		~ K		%		*
Hotker 1966	p.272;figs.73.2,123		6		%		%
Hofker 1966	p.274 figs.124 125		6		%		%
Hofker 1966	p.274; fig.128		6		%	·	%
Hofker 1966	p.275;129		6		%		%
Hofker 1966	p.275;fig.131		6		%		%
Hotker 1966	p.275;fig.132		6		%		%
Hotker 1966	p.275;fig.133	1	÷		%	-	<i>fe</i>
Hofker 1966	p.276; fig.135		Ko		%		<u>k</u>
Hofker 1967	Txt-Fig. 1		<u> </u>		%		<u>k</u>
Hottinger 1966	Fig. 2 Fig. 2	Cuneolina, Dictyopsella, Lacazina compressa Magazina vidali, Sulaman lina		calcaires détritiques et des microbrèches	h		*
Hottinger 1966 Loeblich & Tappan 1988	FIQ. 2 %	Meandropsina vidali, Sulcoperculina	×	calcaires plus ou moins marneux ou détritiques de couleur	or Solutione		<u>/o</u>
Loeblich & Tappan 1988	70 %		no Ka		%		5 %
Loeblich & Tappan 1988			й К		%		×.
Loeblich & Tappan 1988	%		~ K		%		×
Loeblich & Tappan 1988			6		%	· ·	%
Luperto Sinni 1968	Page 96		%	neritic, shallow, temperate-warm			%
Luperto Sinni 1968	Page 96		6	neritic, shallow, temperate-warm		· · ·	%
Luperto Sinni 1968	Page 96		16	neritic, shallow, temperate-warm			%
Luperto Sinni 1968	Page 96		16	neritic, shallow, temperate-warm			%
Luperto Sinni 1968	Page 96		16	neritic, shallow, temperate-warm			6
Luperto Sinni 1968	Page 96		6	neritic, shallow, temperate-warm			6
Luperto Sinni 1968	Page 96	Consultan an	16	neritic, shallow, temperate-warm			<u>k</u>
Luperto Sinni & Ricchetti 1978	Page 561	Cuneolina sp.		Calcare biomicrito		well	
Luperto Sinni & Ricchetti 1978	Page 561	Cuneolina sp.		Calcare biodetritico			~
Mavrikas et al. 1994 McCowrap 1968	Fig. 1		*	limestones with large rudists; plate-form e externe	%		%
McGowran 1968 Renz 1936	-70 p. 545		6 <u> </u>	dunkelgrauer Kalk	70	Nummofallotia	<u>*</u>
Renz 1936	p. 545		~	and a sign block i talle	%	Nummofallotia	
Ricchetti & Luperto Sinni 1979	Fig. 1	Cuneolina sp., Raadshoovenia salentina			%		%
Sartorio & Venturini 1988	%	i i i i i i i i i i i i i i i i i i i	*		%	Henri	
Sartorio & Venturini 1988	%	Cuneolina pavonia	·		%	Cicerale 1 dir. Well	
Schlumberger 1899	%		%		%	type species	
Séronie-Vivien 1972	Page 37	Siderolites		Calcaire d'aspect gréseu>			%
Séronie-Vivien 1972	Page 37	Siderolites		Calcaire gris beige mameux, d'aspect finement gréseux, à	isilex	· · · ·	%

Séronie-Vivien 1972	Nummofallotia	cretacea	1 er	loa	Santonien	FRA	FEP	l or	Les Charriers
			70	01			FFD	70	
Séronie-Vivien 1972	Nummofallotia	cretacea	76	31	Campanien	FRA	EFP	%	Gimeux
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Campanien	FRA	EFP	%	Genté
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Campanien	FRA	EFP	%	"reillis
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Campanien	FRA	EFP	%	Le Maine neuf
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Campanien	FRA	EFP	%	Saint-Palais-du-Né
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Campanien	FRA	EFP	%	Route de Saint-Martial
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Maestrichtien	FRA	EFP	%	Aubeterre
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Maestrichtien	FRA	EFP	%	Aubeterre
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Maestrichtien	FRA	EFP	%	Lamérac
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Mæstrichtien	FRA	EFP	%	La Guerie
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Maestrichtien	FRA	EFP	%	Barret
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Maestrichtien	FRA	EFP	%	La Maison Neuve
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Maestrichtien	FRA	EFP	%	Le Caillaud
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Maestrichtien	FRA	EFP	%	Plage des Nonnes (Meschers-sur-Gironde)
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Santonien	FRA	EFP	%	Puy le Versac (Champagne et Fontaine)
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Campanien	FRA	EFP	%	La Valade (Saint-Léon-sur-I'Isle)
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Maestrichtien	FRA	EFP	%	Neuvic
Séronie-Vivien 1972	Nummofallotia	cretacea	96	31	Campanien	FRA	FFP	96	Lalinde Route D 8
Séronie-Vivien 1972	Nummofallotia	cretacea	%	31	Campanien	FRA	FFP	%	Grande Cote (Saint-Georges-de-Monclard)
Séronie-Vivien 1972	Nummofallotia	cretacea	96	31	Campanien	FRA	FFP	%	Ecoute-s'il-pleut (Saint-Germain-de-Belvès)
Séronie-Vivien 1972	Nummofallotia	cretacea	w.	31	Campanien	FRA	EFP	w.	Ecoute-s/I-pleut (Saint-Germain-de Belvés)
Séronie-Vivien 1972	Nummofallotia	cretacea	e c	31	Campanien	FRA	FFD	n n n n n n n n n n n n n n n n n n n	Belvès Ville
Séronie-Vivien 1972	Nummofallotia	cretacea		31	Campanien	FRA	EFD		Route de Fongauffier (Belvès)
Séronie-Vivien 1972	Nummofallotia	cretacea	a a a a a a a a a a a a a a a a a a a	24	Maestrichtien	FRA	EED	, w	Route de l'allereal (Beaumort-du-Périqord
Sirel 1995	Nummofallotia	iu ciauca		20	late Campanian	TUR	EED.	20	Mendenler village, NE of Bolu city, NW Turkey
van Gorsel 1973a	Nummofallotia	cretacea	(Schlumberger)	24	late Campanian	FRA	CED	20	SE of Aubertere
VallGuiser1975a	INUITITIOIAITOLIA	la etabea	((Schlumberger)	101	Jate Campanian	FRA	EFP	70	SE OF Addetente

Orbitoides

Publication	Genus	Species	Reference	Loc-No Stratigraphic Age	Country	Faunal Province	Illustrations	Site
Abramovich et al. 2002	Orbitoides	concavatus	(Rahaghi)	29 %	MDG	AEP.	1(10)	Berivotra, Mahajanga Basin, Madagascar
Abdelghany 2003	Orbitoides	media	(d Archiac)	23 late Campanian-Maastrichtian	OMN	AFP	%	northern Oman Mountains
Abdelghany 2003	Orbitoides	media	(d'Archiac)	23 late Campanian-Maastrichtian 23 late Campanian-Maastrichtian 23 late Campanian-Maastrichtian	OMN	AFP	fig.10, 4-6; samples 4,7,8	northern Oman Mountains
Abdelghany 2003	Orbitoides	media	(d'Archiac)	23 late Campanian-Maastrichtian	OMN	AFP	%	northem Oman Mountains
Abdelghany 2003	Orbitoides	apiculata	Schlumberger		OMN	AFP	fig.10, 3; sample 4	northem Oman Mountains
Arni 1933	Orbitoides	media	(d'Archiac)	36 Maastrichtian	GRC	EFP	%	Pindos
Arni 1933	Orbitoides	apiculata	Schlumberger	36 Maastrichtian	GRC	EFP	%	Pindos
Ayala-Castanares 1963	Orbitoides	tissoti	Schlumberger	3 late Campanian	MEX	CFP	2(2)	la margen derecha de la Carretera Panamericana, de México a Tuxtia Gutiérrez, ca 3.9 km vor Tuxtia Gutiérrez
Ayala-Castanares 1963	Orbitoides	tissoti	Schlumberger	3 late Campanian	MEX	CFP	1(1-4); 2(1,3-5)	mismo afloramiento que Muestra Ay-109-57; 5 metros más alta estratigráficamente
Ayala-Castanares 1963	Orbitoides	apiculata browni	(Ellis)	3 late Maastrichtian, possibly partially early	MEX	CFP	3(6); 4(6); 5(4,5)	en el camino Viejo entre Ocozocuautía y Ocuilapa, ca.100 m adelante de la Cruz del Atto de Ocuilapa;
								afloramiento en el piso del camino
Ayala-Castanares 1963	Orbitoides	apiculata browni	(Ellis)	3 late Maastrichtian, possibly partially early	MEX	CFP	%	afloramiento en el piso del mismo camino, ca. 150 m adelante de la localidad 102 Chis.
Ayala-Castanares 1963	Orbitoides	apiculata browni	(Ellis)	3 late Maastrichtian, possibly partially early	MEX	CFP	3(1-5); 4(1,3-5); 5(1-3,6)	afloramiento sobre el piso, ca. 150 m adelante de la localidad Ay-57-57
Ayala-Castanares 1963	Orbitoides	apiculata browni	(Ellis)	3 late Maastrichtian, possibly partially early	MEX	CFP	4(2)	aftoramiento sobre Carretera Panamericana, 16.2 km antes de llegar a Tuxtla Gutiérrez, Chis.
Azema et al. 1979	Orbitoides	media	d'Archiac	32 Maastrichtian	ESP	EFP	38(1)	Sierra Gorda (Valencia) (Prebetic)
Azema et al. 1979	Orbitoides	media	d'Archiac	32 Maastrichtian	ESP	EFP	40(1)	Sierra Seca (Internal Prebetic)
Azema et al. 1979	Orbitoides	sp.	%	32 Maastrichtian	ESP	EFP	inec	Sierra de Arquena (Prebetic)
Barrier & Neumann 1959	Orbitoides	tissoti	Schlumberger	31 Santonian	FRA	EFP	%	Dordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Barrier & Neumann 1959	Orbitoides	media	(d'Archiac)	31 Maastrichtian	FRA	EFP	%	Dordogne (Lalinde, Limeuil, Le Buque, Le Buisson, Saint-Cyprien) France
Baumfalk & van Hinte 1985	Orbitoides	media	(d'Archiac)	31 late Campanian	FRA	EFP	3(a-f)	لم A 10 Motorway ate Mirambeau (Charente Maritime)
Bignot 1972	Orbitoides	media	(d'Archiac)	63 late Maastrichtian	SVN	EFP	17(3)	Flanc SW du Nanos, entre le Mont Brzin et la Sembijska bajta; La Vipavska dolina et sa bordure septentrionale
Bignot 1972	Orbitoides	apiculata	%	63 late Maastrichtian	SVN	EFP	%	Le Nanos; La Vipavska dolina et sa bordure septentrionale
Bignot 1972	Orbitoides	media	%	63 Maastrichtian	SVN	EFP	%	Le Sabotin, La Vipavska dolina et sa bordure septentrionale
Bignot 1972	Orbitoides	cf. tissoti	%	63 late Senonian or Maastrichtian	SVN	EFP	%	Le site de Postojna; Le Bassin de la Pivka
Bignot 1972	Orbitoides	media	%	63 Maastrichtian	SVN	EFP	%	Les lambeaux de flysch de Kalise, au N de Postojna;Le Bassin de la Pivka
Bignot & Neumann 1997	Orbitoides	tissoti	Schlumberger	58 Campanian	CHE	EFP	%	Schweiz
Bignot & Neumann 1997	Orbitoides	tissoti	Schlumberger	59 Campanian	AUT		%	Österreich
Bratu 1975	Orbitoides	media	(d'Archiac)	41 Maastrichtian	ROM	EFP	%	Cuejdiu (Bassin de la Bistrita)
Bratu 1975	Orbitoides Orbitoides	apiculata	*	41 Maestrichtian	ROM CUB	CED	%	Cuejdiu (Bassin de la Bistrita)
Brönnimann 1954b Brönnimann 1954b	Orbitoides	browni	76	1 late Cretaceous 1 Maastrichtian	CUB	CFP	70	Cuula Carta Chan A an Million Bandaran Carta Sun Bandaran Carta
Brönnimann 1954b	Orbitoides	sp. sp	70	1 Maastrichtian	CUB	CEP	76	Santa Clara (Las VIIIas) Province; Camagüey Province, Cuba southern Santa Clara
Brönnimann 1954b	Orbitoides	su. palmeri	20	2 late Cretaceous	USA	CEP	70	Sourier Sania Cara
Brönnimann 1954b	Orbitoides	browni	~	1 Maastrichtian	CUB	CEP	~ ~	Diente Province
Brönnimann 1954b	Orbitoides	s.s.spp.	70 9/	1 Invatasuru nuari	CUB	CFP	70	Outraite Province
Brönnimann 1957	Orbitoides	palmeri	%	2 late Maastrichtian	USA	CEP	%	St. Mary's Oil Corporation, Hilliard Turpentine Company, Florida
Brönnimann 1958b	Orbitoides	so	96	2 Cretaceous	USA	CEP	96	Standard Comportation, riman or rangemente Company, riskda
Busulini et al. 1984	Orbitoides	media	(dArchiac)	72 Maastrichtian	ITA	EFP	%	Lanaito
Busulini et al. 1984	Orbitoides	apiculata	Schlumberger	72 late Maastrichtian	ITA	FFP		lanatto
Butterlin 1967	Orbitoides	palmeri	Gravel	3 middle or late Maastrichtian	MEX	CFP	96	Forage Mulato No.1. Municipio de Loma Bonita (Etat d'Oaxaca, près de la frontière avec l'État de Vera Cruz)
Butterlin 1967	Orbitoides	palmeri	Gravel	7 Campanian	HTI	CFP	%	Sentier Bois Carré-Fléfté-Pérodin; 6 km eviron au Nord de Bois Carré,
								altitude 800m; Montagnes Noires; République d'Haiti
Butterlin 1967	Orbitoides	media	(d'Archiac)	36 late Maastrichtian	GRC	EFP	%	du col d'altitude 860m à Kedronas. Grèce
Butterlin 1967	Orbitoides	apiculata	Schlumberger	36 late Maastrichtian 36 late Maastrichtian	GRC	EFP	%	du col d'attitude 860m à Kedronas, Grèce
Butterlin 1967	Orbitoides	sp. cf. apiculata	Schlumberger	60 late Maastrichtian	MKD	EFP	%	Chemin Kato Gramatikon à Ano Gramatikon, à la cote 1030m (Province d'Édessa, Macédoine)
Butterlin 1981	Orbitoides	apiculata forma jaegeri	Papp & Küpper	68 late Maastrichtian	MEX	CFP	35(3)	Mexico, Caribe
Butterlin 1981	Orbitoides	villasensis	Seiglie & Ayala	68 late Maastrichtian 68 late Maastrichtian 68 late Campanian-Maastrichtian 68 late Campanian-Maastrichtian 68 late Campanian-Jate Maastrichtian 68 late Sachnoise Late Companian.	MEX	CFP	35(6)	Mexico, Caribe
Butterlin 1981	Orbitoides	apiculata browni	(Ellis)	68 late Campanian-Maastrichtian	MEX	CFP	36(1-4)	Mexico, Caribe
Butterlin 1981	Orbitoides	apiculata apiculata	Schlumberger	68 late Maastrichtian	MEX	CFP	36(5-7)	Mexico, Caribe
Butterlin 1981	Orbitoides	media	d'Archiac	68 late Campanian-late Maastrichtian	MEX	CFP	37(1-3)	Mexico, Caribe
Butterlin 1981	Orbitoides	tissoti	Schlumberger	po late suitorilaritate camparitari	MEX	CFP	37(4-8)	Mexico, Caribe
Caudri 1944	Orbitoides	browni	(Ellis)	1 Maastrichtian	CUB	CFP	%	Cuba
Caudri 1944	Orbitoides	palmeri	Gravell	1 Maastrichtian	CUB	CFP	%	Cuba
Caudri 1944	Orbitoides	apiculata	Schlumberger	1 Maastrichtian	CUB	CFP	%	Cuba
Caus 1988	Orbitoides	sp.	%	32 Santonian	ESP	EFP	%	Pyrenean basin
Caus 1988	Orbitoides	sp.	%	32 Santonian-Maastrichtian	ESP	EFP	%	Pyrenean basin
Caus & Comella 1983	Orbitoides	hottingeri	%	32 Santonian; ~80-78 Ma	ESP	EFP	%	Sierra del Montsec, Sierras Marginales; bassin sud-pyrénéen
Caus & Cornella 1983	Orbitoides	douvillei	%	32 Campanian; 78-~77 Ma 32 Campanian; ~77-~74 Ma	ESP	EFP	%	Sierra del Montsec, Sierras Marginales; bassin sud-pyrénéen
						EFP		Sierra del Montsec, Sierras Marginales; bassin sud-pyrénéen
Caus & Comella 1983 Caus & Comella 1983	Orbitoides Orbitoides	tissoti media	76	32 Campanian; ~77.~74 Ma 32 Campanian: ~74.5-70 Ma	ESP	FFP		Siena dei Montee, Siena Swaginaes, bassin sud-pyreneen Siena dei Montee, Siena Swaginaes, bassin sud-pyreneen

Séronie-Vivien 1972	Page 38	Dictyopsella, Siderolite:	Calcaire beige blanchatre, avec sile:	%
Séronie-Vivien 1972	Page 44	Dictyopsella	%	%
Séronie-Vivien 1972	Page 45	%	Mame calcaire et calcaire marneux blanchatre	%
Séronie-Vivien 1972	Page 46	%	Mame calcaire	%
Séronie-Vivien 1972	Page 46	%	Calcaire gris blanchatre en bancs avec des silex,	%
	1 -		alternant avec des niveaux plus tendres	
Séronie-Vivien 1972	Page 48	Dictyopsella, Siderolites	Calcaire gris blanchatre, marneux	96
Séronie-Vivien 1972	Page 49	Dictyopsella, Siderolites	Calcaire gris blanchatre	%
Séronie-Vivien 1972	Page 54	Dictyopsella, Siderolites	Calcaire tuffacé beige jaunatre	Zone à Orbitoides media et P seudorotalia schaub
Séronie-Vivien 1972	Page 54	Dictyopsella, Orbitoides, Siderolites	Calcaire mameux, gris blanchatre, glaucorieu:	Zone à Orbitoides media et Goupillaudina daguir
Séronie-Vivien 1972	Page 55	Dictyopsella, Orbitoides, Siderolites	Calcaire jaune, très friable	Zone à Orbitoides media
Séronie-Vivien 1972	Page 56			Zone à Orbitoides media
Séronie-Vivien 1972	Page 57	Orbitoides, Siderolites	Calcaire mameux blanc jaunatre	Zone à Orbitoides media
Séronie-Vivien 1972	Page 58	Dictyopsella, Orbitoides, Siderolites	Mame calcaire jaune blanchatre	Zone á Orbitoides media
Séronie-Vivien 1972	Page 69	Orbitoides, Siderolites		Zone à Orbitoides media et A. monterelensis
Séronie-Vivien 1972	Page 72	Dictyopsella, Orbitoides, Siderolites	Calcaire tuffacé jaune clair	Zone à Orbitoides media
Séronie-Vivien 1972	Page 79		Calcaire gréseux, à bioclastes, gravelles, glauconi	%
Séronie-Vivien 1972	Page 91	Siderolites	Calcaire pelletique, bioclastique, glauconieux, à spicule	%
Séronie-Vivien 1972	Page 94	Dictyopsella, Orbitoides, Siderolites		Zone à Orbitoides media
Séronie-Vivien 1972	Page 100	%	Calcaire argilopelletique à silex glauconieu	%
Séronie-Vivien 1972	Page 103	Siderolites		Zone à A. monterelensis
Séronie-Vivien 1972	Page 116	%	Calcaire mameux, en plaquettes noduleuse:	%
Séronie-Vivien 1972	Page 116	Dictyopsella, Subalveolina	Calcaire pelletique à bioclastes, glauconieu:	%
Séronie-Vivien 1972	Page 119	%	Calcaire noduleux, gris, à silextrès glauconieu:	%
Séronie-Vivien 1972	Page 121	Dictyopsella	Calcaire pelletique à bioclastes, spicule:	%
Séronie-Vivien 1972	Page 126	Orbitoides	Calcaire bioclastique et graveleu:	Zone à Orbitoides media
Sirel 1995	%	Helicorbitoides, Orbitoides	%	%
van Gorsel 1973a	Fig. 1,2	Lepidorbitoides, Orbitoides, Siderolites	%	%

Orbitoides

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Abramovich et al. 2002		**************************************	Ethology and ratios	Probennummer nicht sicher
				Propennummer nicht-sicher
Abdelghany 2003	Fig.1	Loftusia, Omphalocyclus, Lepidorbitoide:	limestone, pink limestone	20
Abdelghany 2003	Fig.1	Omphalocyclus, Lepidorbitoides	limestone, pink limestone	200 C
Abdelghany 2003	Fig.1	Lepidorbitoides	limestone	%
Abdelghany 2003	Fig.1	Sulcoperculina, Siderolites	chalky limestone	%
Arni 1933	%	Siderolites, Lepidorbitoides	%	%
Arni 1933	%	Siderolites, Lepidorbitoides	%	%
Ayala-Castanares 1963	Page 61	Lepidorbitoides, Sulcoperculina, Pseudorbitoides	gravas de color par do amarillento	ausführliche Lokalität im text
Avala-Castanares 1963	Page 62	Sulcoperculina, Lepidorbitoides, Pseudorbitoides	gravas de color pardo amarillento	%
Avala-Castanares 1963	Page 62	Smoutina, Vauqhanina, Sulcoperculina	areniscas de color amarillo, que intemperizan en pardo amarillento	96
.,				
Avala-Castanares 1963	Page 62	Smoutina, Vaughanina, Sulcoperculina	areniscas de color amarillo, que intemperizan en pardo amarillento	
Avala-Castanares 1963	Page 63	Smoutina, Vaughanina, Sulcoperculina	areniscas de color amarillo, que intemperizan en pardo amarillento	
Avala-Castanares 1963	Page 64	Sulcoperculina, Archaeolithothamnium	Calizas arenosas en capas gruesas, de color crema,	
Ayala-Castaliales 1505	r age 04	Sucopercurria, Archaeolariothannian		10
			intemperizan en pardo amarillento	
Azema et al. 1979	%	%	terrigenous biosparrudite (grainstone) with intraclasts; open platform environment	<u>**</u>
Azema et al. 1979	%	Lepidorbitoides, Siderolites, Sulcoperculina	biomicrorudite (grainstone), open platform environment	96
Azema et al. 1979	%	Sulcoperculina, Siderolites, Lepidorbitoides	terrigenous biomicritic limestone (packstone),	%
			irregularly recrystallized; open carbonate platform facies	
Barrier & Neumann 1959	%	Nummofallotia cretacea	calcaires lithoides	%
Barrier & Neumann 1959	%	Dictyopsella, Siderolites, Nummofallotia cretacea	calcaires finement grumeleux	%
Baum falk & van Hinte 1985	Fig. 1	%	greyish, glauconitic maris	%
Bignot 1972	Fig. 48, 49	Lepidorbitoides, Omphalocyclus	calcaires gris	%
Bignot 1972	Fig. 48, 49	Lepidorbitoides, Omphalocyclus	calcaires gris	×.
Bignot 1972	Fig. 50, 51	Lepidorbitoides, Siderolites	calcaires conglomératiques	
Bignot 1972	Fig. 58-61	Lepidoriatolites	calcaires à Rudistes	<i>2</i>
		~		~
Bignot 1972	Fig. 63, 64	%	calcaires à Rudistes	%
Bignot & Neumann 1997	%	Siderolites	96	Angabe der Paleolatitude
Bignot & Neumann 1997	%	Siderolites	%	Angabe der Paleolatitude
Bratu 1975	%	Lepidorbitoides (minor, socialis)	grès calcaires, marno-calcaires, conglemerats	%
Bratu 1975	%	Lepidorbitoides (minor, socialis)	grès calcaires, marno-calcaires, conglemerats	%
Brönnimann 1954b	%	Vaughanina, ?Meandropsina	%	%
Brönnimann 1954b	%	Lepidorbitoides, Pseudorbitoides, Sulcoperculina, Meandropsna	%	%
Brönnimann 1954b	%	Lepidorbitoides, Vaughanina	%	%
Brönnimann 1954b	%	Vaughanina, Pseudorbitoides	%	Core depth 2985-3000 ft
Brönnimann 1954b	96	Vaughanina, Omphalocyclus, Lepidorbitoides, Sulcoperculina	96	96
Brönnimann 1954b	a.	Sulcoperculina, Omphalocyclus		
Brönnimann 1957	96	Vaughanina, Sulcoperculina	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Core depth: 2985-3000 ft
Brönnimann 1958b	Page 429	Sulcoperculina, Pseudorbitoides, Lepidorbitoides, Vauqhanina	cream white microcoguinoid calcilutite	well cutting, Coastal Petroleum Company No.1, T 42 s - R33 E - Sec. 25; Depth: below 5800 ft
Busulini et al. 1984		or	cream write microcogamola carcillate	Wen Gatting, Coastal Petrolecin Company No.1, 1 425 - K35 E - Sec. 25, Deptit Delow Secont
Busulini et al. 1984	fig. 2	Siderolites calcitrapoides, Clypeorbis mamillata, Lepidorbitoides soicalis	70	~
	fig. 2		70	76
Butterlin 1967	%	Vaughanina, Sulcoperculina	%	Depth: 851,3-854,4m; (=0. tissoti Schlumberger?)
Butterlin 1967	%	Sulcoperculina	%	(=0. tissati Schlumberger?)
1	1			
Butterlin 1967	%	Sulcoperculina, Omphalocyclus, Lepidorbitoides, Siderolites	%	%
Butterlin 1967	%	Sulcoperculina, Omphalocyclus, Lepidorbitoides, Siderolites	%	%
Butterlin 1967	%	Lepidorbitoides, Sulcoperculina, Siderolites	96	%
Butterlin 1981	%	%	%	%
Butterlin 1981	%	%	96	%
Butterlin 1981	%	%	%	%
Butterlin 1981	96	%		%
Butterlin 1981	~	96		
Butterlin 1981	~	/0 0(100 04	04 04
	26	/0 I anidashitaidan Daayalashitaidan Vayakanine Omekalasyaha 2Maayahaa	10 64	10 0/
Caudri 1944	70	Lepidorbitoides, Pseudorbitoides, Vaughanina, Omphalocyclus, ?Meandropsina	2	70
Caudri 1944	%	Lepidorbitoides, Pseudorbitoides, Vaughanina, Omphalocyclus, ?Meandropsina	26	26
Caudri 1944	%	Lepidorbitoides, Pseudorbitoides, Vaughanina, Omphalocyclus, ?Meandropsina	%	%
Caus 1988	%	%	Carbonate platform, protected shelf, 0-60 m	%
Caus 1988	%	%	Terrigeneous platform, restricted shelf to open marine shelf	%
Caus & Cornella 1983	%	Cuneolina, Dictyopsella, Meandropsina	%	%
	%	Cuneolina	1 16	%
Caus & Comella 1983 Caus & Comella 1983	%	Cuneolina Cuneolina, Dictyopsella, Meandropsina	16	%

Caus & Hottinger 1986	Orbitoides	sp.	%	8	Santonian-Campanian	%	%	%	ormas cosmopolitas
Caus & Vicens 1984	Orbitoides	tissoti	%	32	Campanian	ESP	EFP	fiq. 5	La Trilla; Castell de Bac Grillera, Pirineos Catalanes
Causetal, 1996	Orbitoides	sp.	%	%	Maastrichtian	%	%	1(1)	%
Causet al. 1996	Orbitoides	sp.	%	~	Campanian	%	96	1(2)	%
Causet al. 1996	Orbitoides	sp.	n n n n n n n n n n n n n n n n n n n	ŝ	0 <u>0</u>	%	CER	1(3)	America
Causet al. 1996	Orbitoides	SP.	l %	- ŝ	w.	- ×	96	2(1)	96
Causet al. 1996	Orbitoides	gensacious	%	~	%	%		2(2)	
Causet al. 1996	Orbitoides	sp.	%		w.	%		2(4)	96
Causet al. 1996	Orbitoides	sp.		38	Maastrichtian	TUR	FED	×(4) %	"urkey
Causet al. 1996	Orbitoides	hottingeri	van Hinte	32	late Santonian	ESP	FFP		Font de les Bagasses, Sierra del Montsec (Lleida, Spain)
Causet al. 1996	Orbitoides	douvillei	(Silvestri)	31	early Campanian	FRA	FFP		Belvés (France)
Cada et al. 1880	Cribitoloes	adamini	(Sireall)	51	carry carripanian		ci r	~	beives (manue)
Causet al. 1996	Orbitoides	tissoti	(Schlumberger)	16	Campanian	DZA	AFP	%	Oued el Arab (Kenchela, Algeria)
Causetal. 1996	Orbitoides	megaloformis	Papp & Küpper	50	late Campanian	AUT	FFP	%	Pemberger, Carintina (Austria)
Causetal. 1996	Orbitoides	megaloformis		33	late Campanian	ESP	FFP	s s	remoteger, cannuna (austra) Southern Pyrenees
Causetal. 1996	Orbitoides	quenbachensis	Papp & Küpper Papp	52	eady Maastrichtian	AUT	EFP	%	Sounder Hervieres
	Orbitoides			55	late Maastrichtian	NLD	FFP	s s s s s s s s s s s s s s s s s s s	Videntadu, Nedeoscereich
Causetal. 1996 Causetal. 1996	Orbitoides		Schlumberger Schlumberger	59 32 59 57 31	late Maastrichtian	FRA	FFP	%	Marshich
Causetal. 1996	Orbitoides	gensacious	(Leymerie)	31	late Maastrichtian	FRA	FFP	70	Gensac
Causetal. 1996	Orbitoides	hottingeri	(Leymene)	00		ESP	EFP	3(1-7)	southern Pyrenees
Causetal. 1996	Orbitoides	douvillei	20	32 31 32	% %	FRA	EFP	3(8-11)	Belvès (France)
Causetal. 1996 Causetal. 1996	Orbitoides	douvillei	70	31	76	ESP	EFP	3(12-14)	southern Pyrenees
Causet al. 1996 Causet al. 1996	Orbitoides	tissoti	20	32	70	FRA		3(12-14) 3(15-16)	sourcern Pyrenees
			%		%	FRA		3(15-16) 3(17-18)	
Causet al. 1996	Orbitoides	tissoti	20	31 32	76				Meschers
Causet al. 1996	Orbitoides	tissoti	%		1 % ~	ESP		3(19-21)	southern Pyrenees
Causet al. 1996	Orbitoides	media	×	31	1 % ~	FRA		3(22-23)	Aubeterre
Causet al. 1996	Orbitoides	media	8	31	1 % ~	FRA		3(24-25)	Meschers
Causet al. 1996	Orbitoides	media	×	32	1 % ~	ESP		3(26-27)	southern Pyrenees
Causet al. 1996	Orbitoides	megaloformis	%	31	%	FRA	EFP	3(28-29)	Aubeterre
Causet al. 1996	Orbitoides	megaloformis	~	32	×	ESP	EFP	3(30-32)	southern Pyrenees
Causet al. 1996	Orbitoides	gruenbachensis	%	31	%	FRA	EFP	3(33-34)	Maurens
Causet al. 1996	Orbitoides	gruenbachensis	%	32	% ~	ESP	EFP	3(35-39)	southern Pyrenees
Causet al. 1996	Orbitoides	apiculata	%	57	%	NLD		3(40-41)	/Asserticht
Causetal. 1996	Orbitoides	apiculata	%	31	%	FRA	EFP	3(42-45)	Northern Pyrenees
Causet al. 2002	Orbitoides	sp.	%	52	middle-late Campanian	MEX	CFP	%	Cárdenas Basin; San Luis Potosí, NE Mexico
	0.12.11					101	FFD		
Cox1937	Orbitoides	apiculata	%	56	- ×	IRN		%	ran
Cox 1937	Orbitoides	cf. media	%	56	%	IRN	EFP	%	Iran
Cox 1937	Orbitoides	apiculata	%	56	%	IRN	EFP	%	Gavara, Province of Kirmanshah
Cox 1937	Orbitoides	cf. media	%	56	%	IRN	EFP	%	Gavara, Province of Kirmanshah
Cox 1937	Orbitoides	cf. media	%	56	late Cretaceous	IRN	EFP	%	Kuh-i-Abbagh, Bakhtiari Country
De Castro 1990	Orbitoides	media?	(d'Archiac)	35	early Maastrichtian (or late Campanian?)	ITA		30(1-7,9-10)	Cava a Nord di Vitigliano, Lecce
De Castro 1990	Orbitoides	sp.	96	35	early Maastrichtian (or late Campanian?)	ITA	EFP	30(8)	Cava a Nord di Vitigliano, Lecce
De Castro 1990	Orbitoides	media?	%	35	early Maastrichtian (or late Campanian?)	ITA	EFP	pl. 33	Cava a Nord di Vitigliano, Lecce
De Castro 1990	Orbitoides	media?	%	35	early Maastrichtian (or late Campanian?)	ITA	EFP	pl. 34	Cava a Nord di Vitigliano, Lecce
De Castro 1990	Orbitoides	media	%	16	late Campanian-Maastrichtian	DZA	AFP	%	Ageria orientale
De Castro 1990	Orbitoides	media	%	20	late Campanian-Maastrichtian	EGY	AFP	%	Egitto
De Castro 1990	Orbitoides	media	%	18	late Campanian	LBY	AFP	%	Hamada al Hamra, Libia
De Castro 1990	Orbitoides	media	%	%	late Campanian	%	CFP	%	America
De Castro 1990	Orbitoides	media	%	1	late Campanian-early Maastrichtian	CUB	CFP	%	Cuba
De Castro 1990	Orbitoides	media	%	3	Maastrichtian	MEX	CFP	%	Region di Chiapas
De Castro 1990	Orbitoides	media	%	48	%	CHN	ASP	%	Tibet, China
De Castro 1990	Orbitoides	media	%	~	%	IND	ASP	%	India
De Castro 1990	Orbitoides	media	%	56	Maastrichtian	IRN	EFP	%	Iran
De Castro 1990	Orbitoides	media	%	56	late Maastrichtian	IRN	EFP	%	Iran
De Castro 1990	Orbitoides	media	%	38	late Campanian - late Maastrichtian	TUR	FFP	%	Turkey
De Castro 1990	Orbitoides	media	%	38	early-late Maastrichtian	TUR	EFP	%	Domuz Dag, Turkey
De Castro 1990	Orbitoides	media	%	38 38	Maastrichtian	TUR	EFP	%	Zona di Cide
De Castro 1990	Orbitoides	media	%	38	late Maastrichtian	TUR	FFP	%	Region di Haymana Polatti
De Castro 1990	Orbitoides	media	%	59	Campanian-early Maastrichtian	AUT	EFP	%	Austria
De Castro 1990	Orbitoides	media	%	41	late Maastrichtian	ROM	EFP	%	Carpazi occidentali
De Castro 1990	Orbitoides	media	%	41	late Campanian - late Maastrichtian	ROM	EFP	%	Carpazi occidentali
De Castro 1990	Orbitoides	media		31	late Campanian - early Maastrichtian	FRA	EFP	w.	Autoria settentionale, France
De Castro 1990	Orbitoides	media	w w	31	late Maastrichtian	ESP/FRA	EFP	- ŵ	Pirenei orientali
De Castro 1990	Orbitoides	media			late Campanian - late Maastrichtian	GRC	EFP	%	zona di Gawovo-Tripolitza, Grecia
De Castro 1990	Orbitoides	media	%	36 36 35 35 35 35	Maastrichtian	GRC	EFP	%	Zona di laghi di Tebe, Grecia
De Castro 1990	Orbitoides	media	%	36	Maastrichtian	GRC	EFP	%	zona di Gavrovo-Tripolitza, Grecia
De Castro 1990	Orbitoides	media	%	35	Maastrichtian	ITA	EFP	%	Appennino settentrionale, Italia
De Castro 1990	Orbitoides	media	%	35	Campanian-Maastrichtian	ITA	EFP	%	Appennino certro-meridionale, Italia
De Castro 1990	Orbitoides	media	%	35	late Campanian	ITA	EFP	%	Murge, Italy
De Castro 1990	Orbitoides	media	%	35	Maastrichtian	ITA	EFP	%	Lazio, Italy
De Castro 1990	Orbitoides	media	%	34	late Campanian	ITA	EFP	%	Sidv I
De Castro 1990	Orbitoides	media	%	63	Maastrichtian	SVN	EFP		Slovenia, lugoslavia
De Castro 1990	Orbitoides	media	%		Campanian-Maastrichtian	YUG	EFP	%	jana di Zeta-Skadar, lugoslavia
De Castro 1990	Orbitoides	media		37 57	late Maastrichtian	NLD	EFP	%	Linbourg, Netherlands
De Castro 1990	Orbitoides	media	%	32	Campaniano sommitale al Maastrichtiano sup.	ESP	EFP		Pinetei orintali. Sagna
De Castro 1990	Orbitoides	media	%	32	Campaniano inf. Alla base del Maastrichtiano inf.	ESP	FFP	96	Siere di Montsech e Marginali, Spagna
De Castro 1990	Orbitoides	media	9%	32	early Campanian - late Maastrichtian	ESP	EFP	w.	Prebetico iniciale, Spagna P
De Castro 1990	Orbitoides	media		32	sommità del Campaniano a tutto il Maastrichtiano	ESP	FFP		provincia di Valenda, Spagna
De Castro 1990	Orbitoides	media	%	32	Maastrichtian	ESP	FFP	e e	regione cantabrica orientale, Spagna
De Castro 1990	Orbitoides	media	×	32 32	early Campanian - late Maastrichtian	ESP	EFP	%	Prinerie da italiana o reinare, Spagna
De Castro 1990	Orbitoides	media	%	58	parte inferiore del Campaniano sup.	CHE	FFP		Mendrisoto, Svizzera
Dilley 1973	Orbitoides	50	d'Orbigny	30 %	Campanian-Maastrichtian	%	96		N America, Central America, Europe, N Africa, Middle East, S USSR, India, E Indies
Drooger 1984	Orbitoides	50	N STRINGTT QL	31	Campanian	FRA	76 FFP	70 1(11,12)	France
Ellis & Messina 1967	Orbitoides	apiculatus	76 Schlumberger	57	Dordonian	NLD	FFD	4.5	rrance // Mastricht
Ellis & Messina 1967 Ellis & Messina 1967	Orbitoides	apiculatus	Schlumberger	31	Dordonian	FRA	EFP	(1-5)	France
Ellis & Messina 1967 Ellis & Messina 1967	Orbitoides	apiculatus	Schlumberger	34	Late Cretaceous	ITA	EFP	(6-7)	ntance Sidv
Ellis & Messina 1967 Ellis & Messina 1967	Orbitoides		Schlumberger	34	Late Cretaceous	ITA	FFP	(8-11)	Sofy Side
	Orbitoides	apiculatus	Schlumberger	34	Late Cretaceous	RUS	EFP		Sialy Veoraie, USSR
				4.2		ITA	EFP FFP	(12) (13-14)	Georgia, USSK Sicily
Ellis & Messina 1967	Orbitoidae								
Ellis & Messina 1967 Ellis & Messina 1967	Orbitoides	apiculatus	Schlumberger	34	Late Cretaceous				Staty Prior talu
Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967	Orbitoides	apiculatus	Schlumberger	34 35	Eccene	ITA	EFP	(15.16)	Brianza, Italy
Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967	Orbitoides Orbitoides	apiculatus apiculatus	Schlumberger Schlumberger	42 34 35 18	Eccene Maastrichtian	HTA SYR	EFP. AFP	(15-16) (17)	Brianza, Italy Ordou, Syria
Ellis & Messina 1967 Ellis & Messina 1967	Orbitoides	apiculatus apiculatus apiculatus	Schlumberger	34 35 18 58 35	Eccene	HTA SYR CHE	EFP AFP EFP	(15.16)	Brianza, Italy

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aus & Hottinger 1986	%	%		%		%	
us & Vicens 1984	%	Nummofallotia	e	attemancia de areniscas y calcarenitas con margas y limolita	is de color gris u ocre	%	
uset al. 1996	%	%		%		%	
ausetal. 1996	%	%		96		%	
us et al. 1996	%	%		%		%	
usetal. 1996	%	%		%		%	
uset al. 1996	%	%		%		%	
uset al. 1996	%	96		96		%	
us et al. 1996	%			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
aus et al. 1996	Page 130	Lacazina				Syn.: Monolepidorbis dordoniensis	
		edda2nd or		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Syn.: Linderina? douvillei, Monolepidorbis	
aus et al. 1990	Page 130	20		76		Syn. Lindennar uddaner, wondepidorois	
						sanctae pelagiae var. densa, Orbitoides tissoti	
aus et al. 1996	Page 130	%		%		Syn.: Orbitella tissoti, Monolepidorbis sanctae-pelagia	e var. vacuolaris
ausetal. 1996	Page 132	Lepidorbitoides, Sirtina		%		Syn.: Orbitoides media megaloformis	
aus et al. 1996	Page 132	Lepidorbitoides, Sirtina		%		Syn.: Orbitoides media megaloformis	
auset al. 1996	Page 132	%		%		Sýn.: Orbitoides media megaloformis Syn.: Orbitoides apiculata gruenbachensis, Orbitoides	apiculata
auset al. 1996	Page 132	Siderolites, Omphalocyclus, Lepidorbitoides		%			
usetal. 1996	Page 132	Siderolites, Omphalocyclus, Lepidorbitoides		96		96	
aus et al. 1996	Page 134	Siderolites, Lepidorbitoides		96		96	
auset al. 1996	96	96		96		96	
aus et al. 1996	96			,0 96		20 96	
auset al. 1996	0K			,0 0		70 W	
ius et al. 1990	/0 ~	10		/0 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		/8 21	
aus et al. 1996	% ~	8		%		%	
aus et al. 1996	%	8		%		%	
aus et al. 1996	%	8		%		%	
aus et al. 1996	%	%		%		%	
ausetal. 1996	%	%		%		%	
aus et al. 1996	%	%		%		%	
aus et al. 1996	%	%		%		%	
aus et al. 1996	%	%		96		%	
aus et al. 1996	%	%		96		96	
aus et al. 1996	%			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
aus et al. 1996	96			70 06		70 02	
aus et al. 1996	~ ~	/* *		,0 0/.		/0 0/	
aus et al. 2002	Page 138	20 Lepidorbitoides, Sulcoperculina, Vaughanina		nterbedded sitty limestone and argillaceous marl, intercalati	ope of limeetope rich in rudi ge	76 frequently fragmented	
NO GLUI, 2002	rugo i JU	copius natoraes, suroperculina, raugitai III la	"	or other molluscs; open marine environment with terrigenou	singut	equoray raginencu	
ox 1937	%	Loftusia, Omphalocyclus, Siderolites, Orbitoides		%		%	
ox 1937	%	Loftusia, Omphalocyclus, Siderolites, Orbitoides		96		%	
ox 1937	%	Loftusia, Omphalocyclus		96		Core depth: 800-2230 ft	
ox 1937	ŵ.	Loftusia, Omphalocyclus		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Core depth 2690-3040 tt	
px 1937	9 <u>6</u>	Omphalocyclus, Siderolites		70 07		a.	
a Centro 1990	/0 94	omprisios yolda, Sider Unites		76		20	
e Castro 1990 e Castro 1990	70	1 26		% ~		16	
e Castro 1990	76	%		%		%	
e Castro 1990	%	Raadshoovenia, Cuneolina	la l	white limestone with micrite and some sparite, grain-support	ed (packstone-grainstone)	%	
e Castro 1990	%	Raadshoovenia, Cuneolina	ly ly	white limestone with micrite and some sparite, grain-support	ea (packstone-grainstone)	%	
e Castro 1990	%	%		%		%	
e Castro 1990	%	%		%		%	
e Castro 1990	%	%		96		96	
e Castro 1990	%	96		96		96	
e Castro 1990	96	94		96		06	
e Castro 1990	°č.			, oc.		20 0.	
e Castro 1990		/0 0/		70 92		/0 0/	
e Castro 1990	,0 a/			×0 ~		20 ~	
e Castro 1990 e Castro 1990	70	2		%		% ~	
e Castro 1990 e Castro 1990	%	96		%		%	
	76	%		%		%	
e Castro 1990	%	%		%		%	
e Castro 1990	%	%		%		%	
e Castro 1990	%	%		%		%	
e Castro 1990	%	%		%		%	
e Castro 1990	%	8		96		%	
e Castro 1990	%	%		96		96	
e Castro 1990	96			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
e Castro 1990	ŵ.			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		20 92	
e Castro 1990	70 92	20 or		20 07		70 or	
e Castro 1990 e Castro 1990	/0 a/	/ //		70		70	
e Castro 1990 e Castro 1990	70	1 20		% ~		% ~	
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Appendix
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Ellis & Messina 1967											
Ellis & Messina 1967	Orbitoides	apiculatus	Schlumberger	k	35	Late Cretaceous	ITA	EFP	(21)		Monte Conero, Italy
Ellis & Messina 1967	Orbitoides	apiculatus	Schlumberger		31	Campanian	FRA	EFP	(22)		France
Ellis & Messina 1967	Orbitoides	apiculatus	Schlumberger	6	31 57	Maastrichtian	NLD CUB	EFP	(21) (22) (23)		Maastricht
Ellis & Messina 1967	Orbitnides	apiculatus	Schlumberger		1	Maastrichtian	CLIB	CFP	(25,26)		Cuba
Ellis & Messina 1967	Orbitoides	apiculatus	Schlumberger		31	Maastrichtian	FRA	EFP	(27-34)		France
Ellis & Messina 1967	Orbitoides	apiculatus	Schlumberger	2	57	Maastrichtian	NLD	EFP	(27-34)		Holland
Ellis & Messina 1967	Orbitoides	gensacicus	(Leymerie)		31	Dordonian	FRA	EFP	(1-5)		Haute-Garonne
Ellis & Messina 1967	Orbitoides				34		ITA	EFP	(6)		
		gensacicus	(Leymerie)		34	Cretaceous	IIA	EFP			Sidly
Ellis & Messina 1967	Orbitoides	gensacicus	(Leymerie)	1	34	Cretaceous	ITA	EFP	0		Sidly
Ellis & Messina 1967	Orbitoides	gensacicus	(Leymerie)	K	34	Late Cretaceous	ITA	EFP	(8-15)		Palemo
Ellis & Messina 1967	Orbitoides	gensacicus	(Leymerie)		35 58 35	Maastrichtian	ITA	EFP EFP	(16)		Apennines, Italy
Ellis & Messina 1967	Orbitoides	gensacious	(Leymerie)	1	58	Maastrichtian	CHE	EFP	(17)		Switzerland
Ellis & Messina 1967	Orbitoides	gensacicus	Levmerie		35	Maastrichtian	ITA	EFP	r18-201		Apennines, Italy
Ellis & Messina 1967	Orbitoides	gensacicus	(Leymerie)	-	36	Maastrichtian	GRC	EFP	(21)		LakeHyliki
Ellis & Messina 1967	Orbitoides	gensacious	(Leymerie)	p	36 31	Maastrichtian	FRA	EFP	(22-24)		France
Ellis & Messina 1967	Orbitoides	gensacicus	(Leymerie)		31	Maastrichtian	FRA	EFP	(26)		Haute-Garonne
Ellis & Messina 1967	Orbitoides		(d'Archiac)		57	Waasuru iuair %	NLD	EFP	(1-3)		
		medius			57		FRA	EFP			Maastricht
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)	6	31	Dordonian	FRA	EFP EFP	(4-10)		France
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)	1	34	Cretaceous	ITA		(11)		Sicily, Palermo
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		34	Cretaceous	ITA	EFP	(12-13)		Sidly
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		34 34 4 2	Late Cretaceous	ITA	EFP	(14-17)		Palemo
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)	4	42	Lutetian	%	%	(18 19)		Qeorgia, USSR
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		48	Late Campanian	CHN	ASP	(20-22)		Central Tibet
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		46	Late Cretaceous	PAK	ASP	(23)		Baluchistan
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		35	EarlyEcome	ITA	EFP	(24)		Contracta de la contracta de l
Ellis & Messina 1967	Orbitoides	medius	(dArchiac)		00		GRC	EFP	(25-30)		
	Orbitoides	medius	(d'Archiac)	E	48 46 36 28 35 35 35 35 58 35	Late Cretaceous	GRC	AFP			Thessaly Nuclear Control of the State Stat
Ellis & Messina 1967				P	20	Maastrichtian		AF P	(31)		N'Gara, Syria
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)	ļ.	35	Maastrichtian	ITA	EFP	(32-33)		Bergamo
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)	k	35	Late Cretaceous-Middle Eocene	ITA	EFP EFP	(34)		Central Apennines
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)	k	35	Maastrichtian	ITA	EFP	(35)		Umbria
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)	e e e e e e e e e e e e e e e e e e e	58	Maastrichtian	CHE	EFP	(36-38)		Switzerland
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		35	Maastrichtian	ITA	EFP	(39-41)		Apennines, Italy
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)	P	31	Campanian	ESP	EFP	(42)		N Spain
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		31 35	Late Cretaceous	ITA	EFP	(43-45)		Monte Conero, Italy
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)			Maastrichtian	TUR	EFP	(46)		Hore Cone O, rany
Ellis & Messina 1967 Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)	b	38 36	Maastrichtian	GRC	EFP	(46)		Bursa Lake Hyliki
		medius		Ŀ	00		UCA	CFP	(47-48) (49-50)		
Ellis & Messina 1967	Orbitoides		(d'Archiac)	-	2	Campanian or Maastrichtian	USA FRA				Florida (USA)
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		31	Maastrichtian	FRA	EFP	(51-59)		France
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		46 57	Maastrichtian	PAK	ASP	(60)		Baluchistan, W. Pakistan
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		57	Maastrichtian	PAK NLD	EFP	(61-69)		Netherlands
Ellis & Messina 1967	Orbitoides	medius	(d'Archiac)		31	Maastrichtian	FRA	EFP	(61-69)		France
Ellis & Messina 1967	Orbitoides	palmeri	Gravell		1	Late Cretaceous	CUB	CFP	(1-10)		Havana Province
Ellis & Messina 1967	Orbitoides	palmeri	Gravell		1	Late Cretaceous	CUB	CFP	(11-12)		Canadiev, Cuba
Ellis & Messina 1967	Orbitoides	palmeri	Gravell			Late Cretaceous	USA	CFP	(13)		Nassau County, Florida
	Orbitoides	pamen			2 10		VEN	CFP	(14-16)		
Ellis & Messina 1967			Gravell			Maastrichtian		CFP AFP			Aragua, Venezuela
Ellis & Messina 1967	Orbitoides	tissoti	Schlumberger		16	Late Cretaceous, Senonian?	DZA		(1-5)		Constantine, Algeria
Ellis & Messina 1967	Orbitoides	tissoti	Schlumberger		35	Senonian	ITA	EFP	(6)		S Cesarea
Ellis & Messina 1967	Orbitoides	tissoti	Schlumberger		35	Late Cretaceous	ITA	EFP	0		Monte Conero, Italy
	Orbitoides					Campanian			(8-9)		
Ellis & Messina 1967		tissoti	Schlumberger	1	1		LOB	ICFP			Cuba
Ellis & Messina 1967 Ellis & Messina 1967		tissoti tissoti	Schlumberger Schlumberger		1 16		CUB DZA	CFP AFP	(10-24)		
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Ellis & Messina 1967 Ellis & Messina 1967	Orbitoides Orbitoides	tissoti tissoti	Schlumberger Schlumberger	-	1 16 17 31	Santonian-Campanian Santonian-Campanian	DZA TUN	AF P AF P	(10-24) (10-24)		Ageria Turisia
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Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 <u>Ellis & Messina 1967</u>	Orbitoides Orbitoides Orbitoides Orbitoides	tissoti tissoti tissoti tissoti	Schlumberger Schlumberger Schlumberger Schlumberger		1 16 17 31 51	Santonian-Campanian Santonian-Campanian Santonian-Campanian Santonian? Campanian	DZA TUN FRA PNG	AFP AFP EFP ASP	(10-24) (10-24) (10-24) (25-27)	~	Algeria Tunisia France New Quinza
Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 <u>Ellis & Messina 1967</u> Ferråndez-Canadell 2000	Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides	tissoti tissoti tissoti tissoti apiculata	Schlumberger Schlumberger Schlumberger Schlumberger Schlumberger		1 16 17 31 <u>51</u> 57	Santorian-Campanian Santorian-Campanian Santorian-Campanian Santorian? Campanian Maastrichtian	DZA TUN FRA PNG NLD	AFP AFP EFP ASP EFP	(10-24) (10-24) (10-24) (25-27)	%	Algeria Tuniaia France New Guinea Ency Guarry, Maastricht
Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ferràndez-Canadell 2000 Ferràndez-Canadell 2000	Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides	tissoti tissoti tissoti tissoti	Schlumberger Schlumberger Schlumberger Schlumberger		1 16 17 31 51 57 57	Santonian-Campanian Santonian-Campanian Santonian-Campanian <u>Santonian? Campanian</u> Maastirchtian Maastirchtian	DZA TUN FRA PNG NLD NLD	AFP AFP EFP ASP EFP EFP	(10-24) (10-24) (10-24) (25-27)	%	Algeria Tunisa France Pervo Quary, Massticht Ency Quary, Massticht Ency Quary, Massticht
Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ferràndez-Canadell 2000 Ferràndez-Canadell 2000 Ferràndez-Canadell 2000	Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides	tissoti tissoti tissoti tissoti apiculata gruenbachensis sp.	Schlumberger Schlumberger Schlumberger Schlumberger Schlumberger	4	1 16 17 31 51 57 57 57 57	Sartorian-Campanian Sartorian-Campanian Sartorian-Campanian Mastirotian Mastirotian Mastirotian	DZA TUN FRA NLD NLD NLD	AFP AFP EFP EFP EFP EFP EFP	(10-24) (10-24) (10-24) (25-27) 4(10)	%	Ageria Tunia France New Quines Ency Quarry, Massticht Ency Quarry, Massticht Ency Quarry, Massticht Ency Quarry, Massticht
Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ferràndez-Canadell 2000 Ferràndez-Canadell 2000 Ferràndez-Canadell 2000 Fleury 1977	Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides	tissoti tissoti tissoti tissoti apiculata	Schlumberger Schlumberger Schlumberger Schlumberger Schlumberger	4	1 16 31 51 57 57 57 36	Santorian-Campanian Santorian-Campanian Santorian-Campanian Santorian? Campanian Maestrichtian Maestrichtian Maestrichtian Lete Cretacocus	DZA TUN FRA PNG NLD NLD	AFP AFP EFP EFP EFP EFP EFP EFP	(10-24) (10-24) (10-24) (25-27) 4(10)		Ageria Tunisia France Rew Guinea Ency Quarry, Massticht
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Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ferràndez-Canadell 2000 Ferràndez-Canadell 2000 Ferràndez-Canadell 2000 Fleury 1977	Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides	tissoti tissoti tissoti tissoti apiculata gruenbachensis sp.	Schlumberger Schlumberger Schlumberger Schlumberger Schlumberger		1 16 17 31 57 57 57 57 36 53 57 57 57 57 57 57 57 57 57 57 57 57 57	Santorian-Campanian Santorian-Campanian Santorian-Campanian Santorian? Campanian Maestrichtian Maestrichtian Maestrichtian Lete Cretacocus	DZA TUN FRA NLD NLD NLD	AFP AFP EFP EFP EFP EFP EFP CFP CFP ASP	(10-24) (10-24) (10-24) (25-27) 4(10)	%	Algeria Tunisia France Rew Quines Ency Quarry, Masstricht Ency Quarry, Masstricht Ency Quarry, Masstricht Course dwitting, Griedenland Caribbean Nouvelle-Quinee
Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ellis & Messina 1967 Ferrändez-Canadell 2000 Ferrändez-Canadell 2000 Ferrändez-Canadell 2000 Fleury 1977 Fleury et al. 1985	Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides	tissoti tissoti tissoti apiculata gruenbachensis sp. media sp.	Schlumberger Schlumberger Schlumberger Schlumberger Schlumberger		1 16 17 31 57 57 57 57 36 57 57 57 57 57 57 51	Santorian-Campanian Santorian-Campanian Santorian-Campanian Maestinchian Maestinchian Maestinchian Lief Cretacocus Lief Cretacocus	DZA TUN FRA PNG NLD NLD NLD GRC %	AFP AFP EFP EFP EFP EFP EFP CFP CFP ASP	(10-24) (10-24) (10-24) (25-27) 4(10)	%	Algeria Tunisia France Rew Quines Ency Quarry, Masstricht Ency Quarry, Masstricht Ency Quarry, Masstricht Course dwitting, Griedenland Caribbean Nouvelle-Quinee
Ellis & Messina 1987 Ellis & Messina 1987 Ellis & Messina 1987 Ellis & Messina 1987 Ferrández-Canadel 2000 Ferrández-Canadel 2000 Fleury 1977 Fleury et al. 1985 Fleury et al. 1985 Fleury et al. 1985	Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides Orbitoides	tissoti tissoti tissoti tissoti agiculata gruenbachensis SD. media Sp. sp. sp.	Schlumberger Schlumberger Schlumberger Schlumberger Schlumberger	, , , , , , , , , , , , , , , , , , ,	1 16 17 31 57 57 57 57 57 57 57 57 57 57 57 57 57	Santorian-Campanian Santorian-Campanian Santorian-Campanian Santorian-Campanian Maestinchtian Maestinchtian Maestinchtian Maestinchtian Maestinchtian Maestinchtian	DZA TUN FRA NLD NLD NLD GRC GRC PNG	AFP AFP EFP EFP EFP EFP CFP CFP EFP	(10-24) (10-24) (10-24) (25-27) 4(10)	%	Ageria Tunia Tunia France France Frey Quarry, Massticht Ency Quarry, Massticht Ency Quarry, Massticht Ency Quarry, Massticht Coupe de Vitina, Griechenland Caribbean C
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Gusic & Jelaska 1990	Orbitoides	douvillei	%	62	Campanian	HRV	EFP	12(5)	ervirons of P ovlja
Gusic & Jelaska 1990 Gusic et al. 1988	Orbitoides	tissoti tissoti	%	62	Campanian middle-late Campanian	HRV HRV	EFP	12(6) 2(9)	Brac Island
Gusic et al. 1988	Orbitoides	hottingeri - douvillei	%	62	late Santonian-early Campanian	HRV	EFP	%	Island of Brac
Hagn 1971 Hagn 1971	Orbitoides Orbitoides	medius planiform is	Papp %	33	late Campanian late Campanian	DEU DEU	EFP	4(1) %	Öeröll aus der Subalpinen Molasse; Blaue Wand, Traun-Profil S Traunstein Geröll aus der Subalpinen Molasse; Geröll von Almagmach, SW Immenstadt, Allgäu
Hanzawa 1962	Orbitoides	media	(d'Archiac)	57	%	NLD	EFP	1(46-52)	Maastricht, Netherlands
Hanzawa 1962 Hanzawa 1962	Orbitoides Orbitoides	media sp	(d'Archiac) d'Orbigny	31	% Maastrichtian	FRA %	EFP %	4(7); 5(6)	Tulmor, France %
Hashimoto et al. 1978a	Orbitoides	sp.	%	65	?Cretaceous-Paleocene?	PHL	ASP	%	Finugay Hill, Tanay, Rizal, Central Luzon
Hoetal. 1976 Hoetal. 1976	Orbitoides	apiculata media	% (d'Archiac)	48 48	Maastrichtian Maastrichtian	CHN	ASP ASP	10(1-3,5-8) 9(4-10); 10(4)	Mount Jolmo Lungma Region Mount Jolmo Lungma Region
Ho et al. 1976	Orbitoides	tissoti	Schlumberger	48	Campanian	CHN	ASP	9(1-3)	Mount Jolmo Lungma Region
Hoetal. 1976 Hofker 1966	Orbitoides Orbitoides	gensacicus praevius faulasi	Köhler %	48 57	% Dano-Maastrichtian	CHN NLD	ASP EFP	9(11,12) %	Mount Jolmo Lungma Region E.N.C.I. quarry, Lichtenberg section
Hofker 1966	Orbitoides	faujasi	%	57	%	NLD	EFP	%	Kunrade-chalk
Hotker 1966	Orbitoides	faujasi	%	57	Paleocene, Dano-Maastrichtian	NLD	EFP	%	Abert Canal, cutting of Caster and Vroenhoven
Hofker 1966 Hofker 1966	Orbitoides Orbitoides	faujasi faujasi	% %	57 57	Dano-Maastrichtian Dano-Maastrichtian	NLD NLD	EFP EFP	%	Biebosch crill-hole Terblijt, G.B. 3525
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	Windhagen, north of Windhagen
Hofker 1966	Orbitoides	faujasi	%	57 57	Dano-Maastrichtian	NLD	EFP	%	cuarry Franssen-Nelissen
Hofker 1966 Hofker 1966	Orbitoides Orbitoides	faujasi faujasi	8	57	Dano-Maastrichtian Dano-Maastrichtian	NLD NLD	EFP EFP	%	Trichterberg ce Tombe (37)
Hofker 1966	Orbitoides	faujasi	%	57	%	NLD	EFP	%	t Rooth (38)
Hofker 1966 Hofker 1966	Orbitoides Orbitoides	faujasi faujasi	%	57 57	Dano-Maastrichtian Dano-Maastrichtian	NLD NLD	EFP EFP	%	E.N.C.I. quarry, Lichtenberg section (39) Well Fortress St. Pieter, drill-hole G.B. 194 (40)
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	cuarry van der Zwaan (41)
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	Valkenburg, municipal grotto (42)
Hofker 1966 Hofker 1966	Orbitoides Orbitoides	faujasi faujasi	× *	57 57	Dano-Maastrichtian Dano-Maastrichtian	NLD NLD	EFP	%	crill-hole Sibbe, G.B. 3621 (43) cuarry Curfs (44)
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	Keerderberg (45)
Hofker 1966 Hofker 1966	Orbitoides	faujasi	%	57 57	%	NLD	EFP	%	Pavensbosch (46)
Hofker 1966 Hofker 1966	Orbitoides Orbitoides	faujasi faujasi	8	57 30	Dano-Maastrichtian Dano-Maastrichtian	NLD BEL	EFP EFP	%	cuarry Curfs, eastern section (47) Albert Canal, cutting of Vroenhoven, Belgium (48)
Hofker 1966	Orbitoides	faujasi	%	57	%	NLD	EFP	%	nine shaft Maurits III (49)
Hofker 1966 Hofker 1966	Orbitoides Orbitoides	faujasi faujasi	%	57 30	Dano-Maastrichtian Paleocene, Dano-Maastrichtian	NLD BEL	EFP	%	cuarry Curfs, western section (50) Albert Canal, km 23.250 and km 23.650, Belgium (52)
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	crill-hole Weet, G.B. 3670 (53)
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	Kunrade Chalk (S5)
Hofker 1966 Hofker 1966	Orbitoides Orbitoides	faujasi faujasi	%	57 57	Paleocene, Dano-Maastrichtian Dano-Maastrichtian	NLD NLD	EFP EFP	%	nine shaft Maurits III (56) Kunrade, Kunderberg (57)
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	Wetterberg well and wellt (58)
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	crill-hole Rivieren, G.B. 3752 (59)
Hofker 1966 Hofker 1966	Orbitoides Orbitoides	faujasi faujasi	%	57 57	Dano-Maastrichtian Dano-Maastrichtian	NLD NLD	EFP EFP	%	shaft I and IV, State Mine Hendrik (60) shaft I. Oranie-Nassau Mine III (61)
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	shaft I + II, State mine Emma (62)
Hofker 1966 Hofker 1966	Orbitoides Orbitoides	faujasi faujasi	%	57	Dano-Maastrichtian Paleocene?, Dano-Maastrichtian	NLD NLD	EFP	%	crill-hole Heisterbrug, S.M. XVIII (63) crill-hole Puth, S.M. XVII (64)
Hofker 1966	Orbitoides	faujasi	%	57	Dano-Maastrichtian	NLD	EFP	%	crill-hole Geleen-Centrum, S.M. XVI (66)
Hofker 1967	Orbitoides	dordoniensis	Hofker, Sr.	32	late Santonian	ESP	EFP	1(1-11), 2(1-2,10)	Falleresa River, Sierra de Montsech, Lérida
Hofker 1967 Hottinger 1966	Orbitoides Orbitoides	tissoti media	Schlumberger d'Archiac	32	late Santonian Maastrichtian	ESP	EFP FFP	1(12-14); 2(3-9) %	Falleresa River, Sierra de Montsech, Lérida tetween Montsech and Tremp
Inan 1996a	Orbitoides	medius	%	38	Maastrichtian	TUR	EFP	%	Koyulhisar-Sivas
Inan 1996a Inan 1996b	Orbitoides	apiculatus medius	(d'Archiac)	38	Maastrichtian Maastrichtian	TUR	EFP	%	Voyulhisar-Sivas
Inan 1996b	Orbitoides	apiculatus	Schlumberger	38	Maastrichtian	TUR	EFP	%	Turkey
Inan et al. 1996 Inan et al. 1996	Orbitoides Orbitoides	medius apiculatus	(d'Archiac) Schlumberger	38 38	%	TUR	EFP	3(6-9); 4(4) 3(10); 4(2-3)	Karacam Highland, Niksar Karacam Highland, Niksar
lon 1975	Orbitoides	media	%	41	early Maastrichtian	ROM	EFP	%	Risnov - vallée du Ghimbavu
lon 1975 Ion 1975	Orbitoides Orbitoides	cf. apiculata cf. tissoti	%	41	early Maastrichtian early Maastrichtian	ROM ROM	EFP EFP	%	Risnov - vallée du Ghimbavu Risnov - vallée du Ghimbavu
lon 1975	Orbitoides	sp.	%	41	late Maastrichtian	ROM	EFP	%	Risnov - vallée du Ghimbavu
Ismail & Boukhary 2001 Ismail & Boukhary 2001	Orbitoides Orbitoides	media media	%	20 57	late Campanian %	EGY NLD	AFP	%	Gebel Thelmet, Southern Galala, Eastern Desert, Egypt Maastricht, Holland
Ismail & Boukhary 2001	Orbitoides	media	%	31	late Cretaceous	FRA	EFP	%	Maastricht, Holland France
Ismail & Boukhary 2001	Orbitoides	media media	%	34 25	late Cretaceous	ITA	EFP	%	Sidiy Felame Kelu
Ismail & Boukhary 2001 Ismail & Boukhary 2001	Orbitoides Orbitoides	media media	%	35 48	late Cretaceous late Campanian	ITA CHN	EFP ASP	%	Falemo, Italy Tibet
Ismail & Boukhary 2001	Orbitoides	media	%	36	late Cretaceous	GRC	EFP	%	Thessaly, Greece
Ismail & Boukhary 2001 Ismail & Boukhary 2001	Orbitoides Orbitoides	media media	8	28 2	Maastrichtian late Cretaceous	SYR USA	AFP CFP	%	N'Gara, Syria Florida (USA)
Ismail & Boukhary 2001	Orbitoides	media	%	31	%	FRA	EFP	%	South France and Alps
Ismail & Boukhary 2001 Ismail & Boukhary 2001	Orbitoides Orbitoides	media media	%	46 57	Maastrichtian Maastrichtian	PAK NLD	ASP EFP	%	Baluchistan, W. Pakistan Nederlands
Ismail & Boukhary 2001	Orbitoides	media	%	31	Maastrichtian	FRA	EFP	%	France
Ismail & Boukhary 2001 Ismail & Boukhary 2001	Orbitoides Orbitoides	media media	(Archiac) (Archiac)	%	%	%	%	1(1-9) 2(1-4)	% %
Küpper 1954a	Orbitoides	tissoti tissoti	Schlumberger	1	Campanian	CUB	CFP 76	12(1,2)	vell , MV of the village Campo Florida, Habana
Küpper 1954a Küpper 1954a	Orbitoides Orbitoides	media media apiculata browni	(d'Archiac) (Ellis)	2	late Campanian or early Maastrichtian	USA CUB	CFP CFP	12(3,4) 12(5,6)	Lawson, Gilchrist County, Florida Madruga
Küpper 1954a Küpper 1954a	Orbitoides	apiculata browni apiculata apiculata	(Ellis) Schlumberger	1	% Maastrichtian	CUB	CFP	12(5,6) 12(7,8)	Madruga 1 km S of Central San Antonio, in railway cut, Habana Province; W of "El Silencia", Cuba
Küpper 1954b	Monolepidorbis	sanctae-pelagiae	Astre	32	late Cretaceous	ESP	EFP	33(4,6)	tetween Col de Cabrillas and Val de Lluch, Spain
Küpper 1954b Küpper 1954b	Orbitoides Orbitoides	vacuolaris sp.	(Astre) %	32 31	late Cretaceous late Cretaceous	ESP FRA	EFP EFP	33(5) 34(1,2)	tetween Col de Cabrillas and Val de Lluch, Spain Bergerac
Kureshy 1977	Orbitoides	media	d'Archiac	46	Maastrichtian	PAK	ASP	S4(1,2) %	Lakhi Range, Sind
Kureshy 1977 Kureshy 1977	Orbitoides Orbitoides	media tissoti	d'Archiac (Schlumberger)	46 46	late Campanian - early Maastrichtian late Campanian - early Maastrichtian	PAK PAK	ASP ASP	%	Murree Brevery, Baluchistan Murree Brevery, Baluchistan
Kureshy 1977	Orbitoides	media	d'Archiac	46 46 46	late Campanian - early Maastrichtian	PAK	ASP	%	Harnai, Baluchistan
Kureshy 1977 Kureshy 1977	Orbitoides Orbitoides	tissoti apiculata	(Schlumberger) (Schlumberger)	46 46	late Campanian - early Maastrichtian late Campanian - early Maastrichtian	PAK PAK	ASP ASP	%	Harrai, Baluchistan Hamai, Baluchistan
Kureshy 1977	Orbitoides	compressa	Manks	46	Campanian	PAK	ASP	%	Harnei, Baluchistan
Kureshy 1977	Orbitoides	apiculata	(Schlumberger)	46	early Maastrichtian	PAK	ASP	%	Harnai, Baluchistan

⊌usic & Jelaska 1990 ⊌usic & Jelaska 1990	%	%	Brac Marbles Brac Marbles	%
usic et al. 1988	% Fig. 1	%	Brac Marbles "bimodal" skeletal vackestone; "deeper" open shelf	keine genaue Lokalität %
isic et al. 1988	Fig. 1	% %	deeper open shelf	%
gn 1971 gn 1971 nzawa 1962	p.20 p.20	Siderolites, Lepidorbitoides, Omphalocyclus	%	76 %
zawa 1962 1zawa 1962	%	%	%	%
zawa 1962	%	%	%	75 Type species: Orbitolites media; Syn.: Orbitella media
shimoto et al. 1978a	Txt-Fig. 1-3	Lepidorbitoides, Omphalocyclus, Pseudorbitoides, Siderolites	sharpstone-bearing conglomeratic sst.	Globotruncana lapparenti, G. sp.
et al. 1976 et al. 1976	%	96	% %	% %
et al. 1976	%	96	96	%
et al. 1976 fker 1966	p.81;fig.51,1-7,fig. 52	%	%	%
fker 1966	%	96	%	%
fker 1966	p.84; fig.53,1-2, fig.95	96	96	%
ker 1966 ker 1966	fig.62 p.126,fig. 66	% 96	% %	76
fker 1966	p.127,figs.75,76	%	%	%
fker 1966 fker 1966	p.130;figs.85,1;86 p.133;fig.88,1;91	%	%	%
ker 1966	p.133;figs.92,93	%	%	%
ker 1966	p.158; fig.85,8	%	%	%
fker 1966 fker 1966	p.158;fig.51,4;52 p.159;figs.96,1;97	96	96 96	% %
fker 1966	p.159;figs.96,2;98	%	%	%
fker 1966	p.171;fig.99	%	%	%
fker 1966 fker 1966	p.171; fig.100 p.172; figs.101,102	% %	%	% %
fker 1966	p.173; figs.103,104	%	%	%
fker 1966 fker 1966	p.200; figs:108,109 p.172; figs:101,102	96 ac	% %	96 ac
fker 1966	p.201;fig.105.1,107	70 96	70 96	70 96
fker 1966	p.214	%	%	%
fker 1966 fker 1966	p.215;figs:101.1,102 p.215;figs:105.1,2;106,107	96	96	%
fker 1966	p.216;fig.112	%	%	%
fker 1966 fker 1966	%	%	%	%
nker 1966 fker 1966	76 p.272;figs.73.2,123	16 96	76 96	76 96
ker 1966	p.274; figs.124,125	%	%	%
fker 1966 fker 1966	p.274;fig.128 p.275;129	%	%	%
fker 1966	p.275;fig.130	%	%	%
fker 1966	p.275;fig.131	%	%	%
riker 1966 riker 1966	p.275;fig.132 p.275;fig.133	%	% %	%
nker 1966 ifker 1967	p.276; fig.135 p.276; fig.135 Txt-Fig. 1	%	%	%
	Txt-Fig. 1 Txt-Fig. 1	%	%	%
fker 1967 ttinger 1966	Figs. 1,2	Siderolithes calcitrapoides, Omphalocyclus macroporus	calcaires gréseux très durs à conglomérats intratornationels	%
in 1996a	Fig. 1	%	Limestone, sandy limestone, clayey limestone; Tidal - Back ree	%
n 1996a n 1996b	Fig. 1 Fig. 1	Laffitteina, Omphalocyclus, Cunedina	Limestone, sandy limestone, clayey limestone; Tidal - Back ree %	%
in 1996b	Fig. 1	Laffitteina, Omphalocyclus, Cuneolina	%	%
an et al. 1996 an et al. 1996	Fig. 1 Fig. 1	96	%	%
an et al. 1996 n 1975	Fig. 1	Lepidorbitoides (minor, socialis), Siderolites calcitrapoides; Globotruncana gansseri	%	%
n 1975 n 1975	Fig. 1 Fig. 1	Lepidorbitoides (minor, socialis), Siderolites calcitrapoides; Globotruncana gansseri Lepidorbitoides (minor, socialis), Siderolites calcitrapoides; Globotruncana gansseri	%	%
1975	Fig.1	Lepidorbitoides (minor, socialis), Siderolites calcitrapoides, Solobotruncana gansseri Lepidorbitoides (minor, socialis), Siderolites calcitrapoides, Siobotruncana gansseri Lepidorbitoides socialis, Siderolites, Omphalocyclus; Abathomphalus mayaroensis		%
nail & Boukhary 2001 nail & Boukhary 2001	%	%	hard massive limestone with some marly limestone interbeds	%
ail & Boukhary 2001	%	76	76 96	70 %
ail & Boukhary 2001	%	%	%	96 er
ail & Boukhary 2001 ail & Boukhary 2001	%	%	% 96	76 %
ail & Boukhary 2001	%	%	%	%
ail & Boukhary 2001 ail & Boukhary 2001	%	%	%	%
ail & Boukhary 2001	%	%	96	%
ail & Boukharý 2001 ail & Boukhary 2001	%	%	96	%
ail & Boukhary 2001	%	96		%
ail & Boukhary 2001 ail & Boukhary 2001	%	%	%	96 96
per 1954a	%	%	%	76 well depth: 950 ft; topotype material of Orbitoides palmeri Gravell
per 1954a	%	%	96	Sun Oil Co., Well No.1
per 1954a per 1954a	76 %	%	%	stratigraphic position uncertain %
oper 1954b	%	%	%	%
oper 1954b oper 1954b	%	%	%	% alternating embryonic chambers
oper 1954b reshy 1977	Fig. 1 Fig. 1	Siderolites, Omphalocyclus, Sulcoperculina	96	Orbitoides media zone
eshy 1977 eshy 1977		Lepidorbitoides, Siderolites, Omphalocyclus, Sulcoperculina Lepidorbitoides, Siderolites, Omphalocyclus, Sulcoperculina	Carbonate facies Carbonate facies	%
reshý 1977	Fig. 1 Fig. 1	Lepidorbitoides, Siderolites, Omphalocyclus, Sulcoperculina	hard massive, splintry, light brown in color; Carbonate facies	70 96
eshy 1977	Fig. 1	Lepidorbitoides, Siderolites, Omphalocyclus, Sulcoperculina	hard massive, splintry, light brown in color; Carbonate facies	96
reshy 1977 reshy 1977	Fig. 1 Fig. 1	Lepidorbitoides, Siderolites, Omphalocyclus, Sulcoperculina Lepidorbitoides	hard massive, splintry, light brown in color; Carbonate facies %	% Orbitoides tissoti zone
reshy 1977	Fig. 1	Omphalocyclus, Siderolites, Sulcoperculina, Lepidorbitoides		Orbitoides media zone

Kureshy 1977	Orbitoides	media	d'Archiac	ke	early Maastrichtian	PAK	ASP	۲	Harnai, Baluchistan
Kureshy 1977 Kureshy 1980	Orbitoides	tissoti	(Schlumberger)	46	eany maastrichtian Campanian-Maastrichtian	PAK	ASP	%	narna, baucristan Pakistan
Kureshy 1980	Orbitoides	compressa	Mark	46	Campanian-Maastrichtian	PAK	ASP	l «	Pakistan
Kureshy 1980	Orbitoides	compressa	%	21	Cretaceous	BHS	CFP	×	Bahama Island
Kureshy 1980	Orbitoides	media	d'Archiac	46	Campanian-Maastrichtian	PAK	ASP	%	Pakistan
Kureshy 1980	Orbitoides	apiculata	(Schlumberger)	46	Campanian-Maastrichtian	PAK	ASP	%	Pakistan
Kureshy 1980	Orbitoides	minima	(Vredenburg)	46	Campanian-Maastrichtian	PAK	ASP	%	Pakistan
Loeblich & Tappan 1988 Loeblich & Tappan 1988	Orbitoides Orbitoides	sp. douvillei	d'Orbigny (Silvestri)	32 %	late Santonian-Maastrichtian Campanian	ESP %	% EFP	% 730(1)	Europe, North America, Caribbean, India near chapel of Sainte Pelagie, N. flank of Sierra de Turp, Lerida Prov., Spain
Luebilar & rappair 1966	Orbitoldes	uouwinei	(Silvesti)	32	Campanian	COP	CFF	730(1)	itear draperor Sainte Pelagie, N. Irank or Sterra de Turp, Lenda Prov, Spain
Loeblich & Tappan 1988	Orbitoides	apiculata	Schlumberger	57	Dordonian	NLD	EFP	730(2-4)	Maastricht, Netherlands
Loeblich & Tappan 1988	Orbitoides	apiculata	Schlumberger	31	Dordonian	FRA	EFP	730(5,6)	Maurens, Dept. Dordogne, France
Loeblich & Tappan 1988	Orbitoides	douvillei	(Silvestri)	31	late Santonian	FRA	EFP	731(1-2)	Belvès, France
Loeblich & Tappan 1988	Orbitoides	faujasii	(Defrance)	31	Maastrichtian	FRA	EFP	731(3-7)	France
Luperto Sinni & Ricchetti 1978	Orbitoides	tissoti forma douvillei	(Silvestri)		late Campanian	ITA	EFP	54(1); 55(6,7)	Specchia Tarantina, Murge
Luperto Sinni & Ricchetti 1978 Luperto Sinni & Ricchetti 1978	Orbitoides Orbitoides	tissoti forma densa tissoti	(Astre) Schlumberger	35 35	late Campanian late Campanian	ITA ITA	EFP EFP	54(2-9); 57(3) 55(1-5); 56(4-7)	Specchia Tarantina, Murge Specchia Tarantina, Murge
Luperto Sinni & Ricchetti 1978	Orbitoides	media	(d'Archiac)	35	late Campanian	ITA	EFP	56(1-5); 56(4-7) 56(1-3); 57(1,2,4,5); 58(1-6)	Specchia Tarantina, Murge
Mayrikas et al. 1994	Orbitoides	ar. media	(47141146)	36	late Maastrichtian	GRC	EFP	50(1-5), 51(1,2,4,5), 55(1-5)	Ori Vatiou
Mavrikas et al. 1994	Orbitoides	apiculata	Schlumberger	36	late Maastrichtian	GRC	EFP	%	Ori Vattou
Mavrikas et al. 1994	Orbitoides	spp.	- %	36	early Maastrichtian	GRC	EFP	%	Ori Valtou
Mavrikas et al. 1994	Orbitoides	megaloformis	%	36	early Maastrichtian	GRC	EFP	%	Ori Vattou
Marializa at al 4004	Ontra-Lider of		(1	00		GRC	EFP		And Market
Mavrikas et al. 1994 McGowran 1968	Orbitoides Orbitoides	gensacious	(Leymene)	46	late Maastrichtian late Cretaceous	PAK	ASP	70	Ori Valtou South of Sulaiman Range, West Pakistan
McGowran 1968	Orbitoides	sp. sp.	20	40	Maastrichtian	PAK	ASP	%	Rakhi Nala section, Sulaiman Range, West Pakistan
McGowran 1968	Orbitoides	sp.	%	51	Campanian	PNG	ASP	%	Port Moresby District, Western Pacific
Meric & Coruh 1991	Orbitoides	apiculatus	Schlumberger	56	middle-late Maastrichtian	IRN	EFP	%	Celkii weli, NW Siit, SE Anatolia
			-					1	
Meric & Coruh 1991	Orbitoides	medius	(d'Archiac)	56	middle-late Maastrichtian	IRN	EFP	%	Celikli well; NW Siirt, SE Anatolia
Maria et al 4007	0.63.04.0		Cablumba	20	N	TUD		44.45	ل محمد المراجع ا
Meric et al. 1997 Meric et al. 1997	Orbitoides Orbitoides	apiculatus medius	Schlumberger	38 31	Maastrichtian late Maastrichtian	TUR	EFP	1(1-4)	Sereflikochisar (Central Anatolia-Turkey) Antrans (Isère) area, France
Meric et al. 1997 Meric et al. 1997	Orbitoides	medius	70	38	INTERPORT OF THE INTERPORT	TUR	EFP	×	Cörtinek-Kahta-Adiyaman (SE Turkey)
Meric et al. 1997	Orbitoides	gruenbachensis	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	38	% %	TUR	EFP	l «	Uyuköy-Bilecik (NVV Turkey)
Meric et al. 1997	Orbitoides	gruenbachensis	%	38	%	TUR	EFP	%	Osmaneli-Bileck (NW Turkey)
Meric et al. 1997	Orbitoides	medius?	%	38	late Maastrichtian	TUR	EFP	%	Korkuteli-Antalya (SW Turkey)
Meric et al. 1997	Orbitoides	medius	%	32	%	ESP	EFP	%	Montsech-Spain (Monsech)
Meric et al. 1997	Orbitoides	medius	%	38	%	TUR	EFP	%	Karadut area
Meric et al. 2001	Orbitoides Orbitoides	apiculatus	%	56 23	Maastrichtian Maastrichtian	IRN	EFP	%	l'an Oman
Meric et al. 2001 Meric et al. 2001	Orbitoides	apiculatus apiculatus	% ex	23 22	Maastrichtian	SAU	AFP AFP	8	Oman Saudi Arabia
Meric et al. 2001	Orbitoides	apiculatus	20 96	38	maasing itali mid and late Maastrichtian	TUR	EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Set Anatolia and other parts of Turkey
Meric & Görnüs 2001	Orbitoides	gruenbachensis	%	38	middle-late Maastrichtian	TUR	EFP	%	Cé ynuk-Kamplicker (Bolu)
Meric & Görmüs 2001	Orbitoides	apiculatus	96	38	middle-late Maastrichtian	TUR	EFP	× ×	Göynük-Karanlikdere (Bolu)
Meric & Görmüs 2001	Orbitoides	apiculatus	%	38	middle-late Maastrichtian	TUR	EFP	%	Göynük-Karanlikdere (Bolu)
Meric & Görmüs 2001	Orbitoides	medius	%	38	middle-late Maastrichtian	TUR	EFP	%	Haymana (Ankara)
Meric & Görmüs 2001	Orbitoides	gruenbachensis	%	38	middle-late Maastrichtian	TUR	EFP	%	Haymana (Ankara)
Meric & Görmüs 2001	Orbitoides	apiculatus	%	38	middle-late Maastrichtian	TUR	EFP	%	Haymana (Ankara)
Meric & Görmüs 2001	Orbitoides	apiculatus	%	38	middle-late Maastrichtian	TUR	EFP EFP	8	Zorbehan-Hekimhan (Malatya)
Meric & Görnüs 2001 Meric & Görnüs 2001	Orbitoides Orbitoides	medius medius	76	38	middle-late Maastrichtian middle-late Maastrichtian	TUR	EFP	× ×	Siwice-Elazig Osmanive
Meric & Gomus 2001 Meric & Gömüs 2001	Orbitoides	medius	76	38 38	middle-late Maastrichtian	TUR	EFP EFP	70	Ostranije Pazarcik
Meric & Görmüs 2001	Orbitoides	medius	%	38	middle-late Maastrichtian	TUR	EFP		Pazarcik
Meric & Görmüs 2001	Orbitoides	apiculatus, medius	96	38	middle-late Maastrichtian	TUR	EFP	%	Southeastern Turkey
Meric & Görmüs 2001	Orbitoides	gruenbachensis	%	38	middle-late Maastrichtian	TUR	EFP	%	Southeastern Turkey
Meric & Görmüs 2001	Orbitoides	medius	96	38	middle-late Maastrichtian	TUR	EFP	%	Southeastern Turkey
Meric & Görmüs 2001	Orbitoides	gruenbachensis	%	38	middle-late Maastrichtian	TUR	EFP	%	Southeastern Turkey
Mulet al. 1973 Musee 1089	Orbitoides Orbitoides	media	%	48	Maastrichtian late Cretaceous	CHN MEX	ASP	*	Mount Jolmo Lungma Region, Southern Tibet Cardenas
Myers 1968 Nagappa 1959	Orbitoides	sp. media	d'Archiac	46	Maastrichtian	PAK	ASP	70	Lakhi Range, Sind
Nagappa 1959	Orbitoldes	media	d Al d liac	40	Waasuru war	r an	ASP.	^ ^	Laki Kange, Sina
Nagappa 1959	Orbitoides	media	(d'Archiac)	46	Maastrichtian	PAK	ASP	1(4)	Dunghan Range, Baluchistan
Nagappa 1959	Orbitoides	media	%	46	Maastrichtian	PAK	ASP	%	Quetta, Baluchistan
Nagappa 1959	Orbitoides	media	%	46	Maastrichtian	PAK	ASP	%	Rakhi Nala, Sulaiman Range
Nagappa 1959	Orbitoides	media	%	48	Maastrichtian	CHN	ASP	%	central Tibet
Nagappa 1959 Nagappa 1959	Orbitoides Orbitoides	media	%	48 45	Maastrichtian Maastrichtian	CHN	ASP ASP	% ~	central Tibet central Assam
Nagappa 1959 Neumann 1972	Orbitoides	sp. tissoti	% Schlumberger	10	Maastrichtian late Campanian	FRA	EFP	76	Le Buisson (Dordogne)
Neumann 1972	Orbitoides	media	d'Archiac		late Maastrichtian	ESP	EFP	1(3)	Le baisson (britagne) Montsech
Neumann 1972	Orbitoides	media	d'Archiac	31	late Campanian	FRA	EFP	1(4-5)	Meschers
Neumann 1972	Orbitoides	tissoti var. densa	Schlumberger	32	Santonian	ESP	EFP	1(6)	Montsech
Neumann 1972	Orbitoides	media	d'Archiac	31	late Campanian	FRA	EFP	1(7), 2(1,2,4,5)	Brossac (Charente)
Neumann 1972	Orbitoides	media	d'Archiac	32	late Campanian	ESP	EFP	1(8)	Montsech
Neumann 1972	Orbitoides Orbitoides	apiculata tissoti	Schlumberger	38	Maastrichtian	TUR	EFP	1(9)	Turkey
Neumann 1993 Neumann 1993	Orbitoides	tissoti tissoti	Schlumberger Schlumberger		late Campanian late Maastrichtian	DZA DZA	AFP AFP	1(1,2) 1(3)	Ageria Ageria
Neumann 1993	Orbitoides	media	(d'Archiac)		late Campanian	FRA	EFP	1(4-5)	Talmont (Charente-Maritime)
Neumann 1993	Orbitoides	media	(d'Archiac)	31	late Campanian	FRA	EFP	1(6-9)	Tamon (chaente-manano) Mesches (Chaente-Mantime)
Neumann 1993	Orbitoides	media	(dArchiac)	31	late Campanian	FRA	EFP	1(10)	Royan (Charente-Maritime)
Neumann 1993	Orbitoides	media	(đArchiac)	31	%	FRA	EFP	1(11,12)	Maurens (Dordogne)
Neumann 1993	Orbitoides	media	(d'Archiac)	31	late Maastrichtian	NLD	EFP	1(13-15)	Maastricht
Neumann 1993	Orbitoides	megaloformis	Papp & Küpper	31	late Campanian	FRA	EFP	1(16)	Aubeterre (Charente)
Neumann 1993	Orbitoides	megaloformis	Papp & Küpper	31	late Campanian	FRA	EFP	1(17-18)	Meschers (Charente-Maritime)
Neumann 1993	Orbitoides	megaloformis	Papp & Küpper		late Campanian	FRA	EFP EFP	2(1) 2(2-5)	Royan (Charente-Maritime)
Neumann 1993	Orbitoides	megaloformis	Papp & Küpper	31	early Maastrichtian	FRA		2(2-5)	Maurens (Dordogne)
Neumann 1993 Neumann 1993	Orbitoides Orbitoides	megaloformis megaloformis	Papp & Küpper Papp & Küpper		late Maastrichtian late Maastrichtian	FRA	EFP EFP	2(0)	StMarcet (Haute-Garonne) Latoue (Haute-Garonne)
Neumann 1993 Neumann 1993	Orbitoides	megaloform is	Papp & Kupper Papp & Küpper	31 57	late Maastrichtian late Maastrichtian	NLD	EFP	2(6) 2(7) 2(8)	Latoue (Haute-Garonne) Maastricht
Neumann 1993	Orbitoides	megaloformis	Papp & Küpper	31	late Campanian	FRA	EFP	2(15)	Mussidan (Dordogne)
Neumann 1993	Orbitoides	gruenbachensis	Рарр	31	late Campanian	FRA	EFP	2(15) 2(9,11)	Aubeterne (Charente)
Neumann 1993	Orbitoides	gruenbachensis	Papp	31	late Campanian	FRA	EFP	2(10)	Meschers (Charente-Maritime)

Kureshy 1977	Fig.1	Omphalocyclus, Siderolites, Sulcoperculina, Lepidorbitoides	%	Orbitoides media zone
Kureshy 1980	p.94	Lepidorbitoides, Omphalocyclus, Siderolites, Sulcoperculina	%	%
Kureshy 1980	p.94	Lepidorbitoides, Omphalocyclus, Siderolites, Sulcoperculina	%	%
Kureshy 1980	%	96	96	%
Kureshy 1980	p.94	Lepidorbitoides, Omphalocyclus, Siderolites, Sulcoperculina	%	%
Kureshy 1980	p.94	Lepidorbitoides, Omphalocyclus, Siderolites, Sulcoperculina	%	%
Kureshy 1980	p.94	Lepidorbitoides, Omphalocyclus, Siderolites, Sulcoperculina	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	96	%	Type species of Schlumbergeria;
				specimen identified as Monolepidorbis sanctaepelagiae
Loeblich & Tappan 1988	%	96	%	%
Loeblich & Tappan 1988	%	96	96	Type species of Silvestrina
Loeblich & Tappan 1988	%	*		Type species of Schlumbergeria
Loeblich & Tappan 1988	%	96		%
Luperto Sinni & Ricchetti 1978	fig. 1			%
Luperto Sinni & Ricchetti 1978	fig. 1	96	96	%
Luperto Sinni & Ricchetti 1978	tig. 1	36	8	96
Luperto Sinni & Ricchetti 1978	fig. 1	96		36
Mavrikas et al. 1994	Fig. 1 Fig. 1 Fig. 1	Siderolites, Pseudedomia, Lepidorbitoides, Hellenocyclina, Sirtina	limestones with large rudists; plate-forme externe	%
Mavrikas et al. 1994	Fig. 1	Siderolites, Pseudedomia, Lepidorbitoides, Hellenocyclina, Sirtina	limestones with large rudists; plate-forme externe	96
Mavrikas et al. 1994	Fig. 1	Siderolites	bioclastic limestone; plate-forme externe où, par exception,	%
	1		les influences de la mer ouverte et de la plate-forme protégée se mêlent	
Mavrikas et al. 1994	Fig. 1	Siderolites	bioclastic limestone; plate-forme externe où, par exception,	%
	1		les influences de la mer ouverte et de la plate-forme protégée se mêlent	
Mavrikas et al. 1994	Fig. 1	Pseudedomia, Sirtina	limestones with large rudists; plate-forme externe	%
McGowran 1968	%	Omphalocyclus	%	%
McGowran 1968	%	96	%	%
McGowran 1968	%	Pseudorbitoides	%	%
Meric & Coruh 1991	Fig. 1	Omphalocyclus macroporus, Lepidorbitoides socialis, L. cf. minor,	%	%
		Clypeorbis mamillata, Sulcoperculina sp., Cuneolina sp.		
Meric & Coruh 1991	fig. 1	Omphalocyclus macroporus, Lepidorbitoides socialis, L. cf. minor,	%	%
		Clypeorbis mamillata, Sulcoperculina sp., Cuneolina sp.		
Meric et al. 1997	%	96	%	%
Meric et al. 1997	%	96	%	%
Meric et al. 1997	%	96	%	%
Meric et al. 1997	%	%	%	%
Meric et al. 1997	%	96	96	%
Meric et al. 1997	%	96		%
Meric et al. 1997	%	96		%
Meric et al. 1997	%			96
Meric et al. 2001	%	Loftusia, Omphalocyclus	96	%
Meric et al. 2001	%	Loftusia, Omphalocyclus		96
Meric et al. 2001	%	Omphalocyclus, Loftusia	%	96
Meric et al. 2001	%	Loftusia, Omphalocyclus		%
Meric & Görmüs 2001	%	Siderolites calcitrapoides, Lepidorbitoides socialis, Loftusia ana:olica	sandstone	%
Meric & Görmüs 2001	%	*	sandstone	96
Meric & Görmüs 2001	%	Omphalocyclus macroporus	sandstone	96
Meric & Görnüs 2001		l epidorbinides socialis	sandstone; claystone-mudstone	
Meric & Görmüs 2001	%	Hellenocyclina beotica	sandstone; clavstone-mudstone	%6
Meric & Gömüs 2001	96	Siderolites calcitratoides	sandstope: daystope-mudstope	96
Meric & Görnüs 2001 Meric & Görnüs 2001	%	Siderolites calcitrapoides	sandstone; claystone-mudstone clayer limestone	96 96
Meric & Görmüs 2001	96 96	Siderolites calcitrapoides %	dayey limestone	96 96 96
Meric & Görmüs 2001 Meric & Görmüs 2001	% % %	%	dayey limestone shale	% % %
Meric & Görmüs 2001 Meric & Görmüs 2001 Meric & Görmüs 2001	96 96 96 96	% % Siderolites calcitrapoides. Omphalocyclus macroporus	dayey limestone dayey limestone	% % % %
Meric & Görnüs 2001 Meric & Görnüs 2001 Meric & Görnüs 2001 Meric & Görnüs 2001	96 96 96 96 96	% Siderolites calcitrapoides, Omphalocyclus macroporus Sideoperoulina sp., Siderolites calcitrapoides	davey linestone shale davey linestone Jimestone	% % % %
Meric & Görmüs 2001 Meric & Görmüs 2001 Meric & Görmüs 2001	% % % % %	% % Siderolites calcitrapoides. Omphalocyclus macroporus	dayey limestone dayey limestone	56 56 56 56 56 56 56 56 56 56
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Meric & Comuis 2001 Meric & Comuis 2001 Nagappa 1559 Nagappa 1559 Na	p.177 txt-fig.2 txt-fig.2 txt-fig.2 table 8	% % Sideroites calcitrapoides, Omphalocyclus macroporus Suicoperculina sp., Sideroites calcitrapoides Sucoperculina sp., Sideroites calcitrapoides % @mphalocyclus % Omphalocyclus, Sideroites % Omphalocyclus, Sideroites % Omphalocyclus, Sideroites %	(daye) linestone shale daye linestone days linestone daystone muddone daystone muddone daystone muddone linestone Linestone Intercalated with calcareous shale; shallowweter, platform type Linestone Intercalated with calcareous shale; shallowweter, platform type light-ouclered massive or thick-bedded linestones, becoming sandy toward the top; deposition on the continential shall in warm, shallow, sometimes sheltered waters of the inner nentic environment %	% % % %
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Neumann 1993	Orbitoides	aruenbachensis	Рарр	24	early Maastrichtian	FRA	EFP	2(12-13)	Maurens (Dordogne)
Neumann 1993	Orbitoides	media		31	late Campanian	FRA	EFP	2(12-13) 2(14)	Le Callaud (Charente-Maritime)
Neumann 1993	Orbitoides	gruenbachensis	Papp		late Maastrichtian	FRA	EFP	3(1)	Gersac (Haute-Garone)
Neumann 1993	Orbitoides	gruenbachensis	Papp	31 57	late Maastrichtian	NLD	EFP	3(2)	Mastricht
Neumann 1993	Orbitoides	gruenbachensis			late Maastrichtian	FRA	EFP	3(3)	Latoue (Haute-Garonne)
Neumann 1993	Orbitoides	gruenbachensis	Рарр	57	late Maastrichtian	NLD	EFP	3(4-5)	Maastricht
Neumann 1993	Orbitoides	gruenbachensis	Papp	31 57 59 57 59 16	late Maastrichtian	AUT	EFP	3(6)	Grünbach
Neumann 1993	Orbitoides	apiculata	Schlumberger	57	late Maastrichtian	NLD	EFP	3(7-9)	Maastricht
Neumann 1993	Orbitoides	megaloformis	%	59	early Maastrichtian	AUT	EFP	4(1)	6 rünbach
Neumann 1993	Orbitoides	tissoti	Schlumberger	16	late Campanian	DZA	AFP	4(2)	Algeria
Neumann 1993	Orbitoides	megaloformis	Papp & Küpper	31	early Maastrichtian	FRA	EFP	4(3)	Maurens (Dordogne)
Neumann 1993	Orbitoides	media	(đArchiac)	31 31	late Campanian	FRA	EFP	4(4)	Talmont (Charente-Maritime)
Neumann 1993	Orbitoides	gruenbachensis	Papp	31	early Maastrichtian	FRA	EFP EFP	4(5)	Maurens (Dordogne)
Neumann 1993 Neumann 1993	Orbitoides Orbitoides	megaloformis gruenbachensis	Papp & Küpper Papp	59 38 59	late Maastrichtian late Maastrichtian	AUT	EFP	4(6) 4(7)	Grünbach Termini
Neumann 1993	Orbitoides	gruenbachensis gruenbachensis	Рарр Рарр	30 60	late Maastrichtian	AUT	EFP	4(7) 4(8)	Turquie Grünbach
Neumann 1993	Orbitoides	apiculata	Schlumberger	33	late Maastrichtian	ESP	EFP	4(9-10)	Montsech (Espagne)
Neumann 1993	Orbitoides	tissoti	Schlamberger 96	32 31	early Campanian	FRA	EFP	%	Aquitaine septentionale
Neumann 1993	Orbitoides	media		31	late Campanian	FRA	EFP		Aquitaine septentrionale
Neumann 1993	Orbitoides	megaloformis		31	late Campanian	FRA	EFP	%	Aquitaine septentrionale
Neumann 1993	Orbitoides	gruenbachensis		31	Campanian	FRA	EFP	%	Aquitaine septentrionale
Neumann 1993	Orbitoides	tissoti	%	32	Campanian	ESP	EFP	%	Rio Noguera Ribacorzana (Montsech)
Neumann 1993	Orbitoides	media	%	32	Campanian	ESP	EFP	%	Rio Noguera Ribacorzana (Montsech)
Neumann 1993	Orbitoides	megaloformis	%	32 32 32	Campanian	ESP	EFP	%	Rio Noguera Ribacorzana (Montsech)
Neumann 1993	Orbitoides	gruenbachensis	%	32	Campanian	ESP	EFP	%	Rio Noguera Ribacorzana (Montsech)
Neumann 1993	Orbitoides	tissoti	%	59 59 59	Campanian	AUT	EFP	%	Silberegg I, Alpes Camiques
Neumann 1993	Orbitoides	media	96	59	Campanian	AUT	EFP	%	Mesterdoff II, Alpes Carniques
Neumann 1993	Orbitoides	tissoti	%	59	Campanian	AUT	EFP	1 %	Région de Vienne
Neumann 1993	Orbitoides	media	%	59	Campanian	AUT	EFP	%	Région de Vienne
Neumann 1993 Neumann 1993	Orbitoides Orbitoides	media megaloformis tissoti	%	59 71	Campanian Campanian	SVK	EFP EFP	%	Région de Vienne W. Carpathes, Tchécoslovaquie
Neumann 1993 Neumann 1993	Orbitoides	media	%	71	Campanian	SVK	EFP	70	W. Carpathes, I checoslovaquie W. Carpathes, Tchécoslovaquie
Neumann 1993 Neumann 1993	Orbitoides	media megaloformis	70 96	71	Campanian	SVK	EFP	×**	W. Carpathes, I checoslovaquie W. Carpathes, Tchécoslovaquie
Neumann 1993	Orbitoides	media	°.	31	early Maastrichtian	FRA	EFP	w w	Maurens (Dordogne)
Neumann 1993	Orbitoides	megaloformis	96	31	early Maastrichtian	FRA	EFP		Maurens (Dordogne)
Neumann 1993	Orbitoides	gruenbachensis	w.	31	early Maastrichtian	FRA	EFP		Maurens (Dordogne)
Neumann 1993	Orbitoides	media	96	32	Maastrichtian	ESP	EFP	%	plate-formes E pyrénéennes
Neumann 1993	Orbitoides	tissoti	%	32 32 32	Maastrichtian	ESP	EFP	%	plate-formes E pyrénéennes
Neumann 1993	Orbitoides	apiculata	%	32	Maastrichtian	ESP	EFP	%	plate formes E pyrénéennes
Neumann 1993	Orbitoides	media	%	32	Maastrichtian	ESP	EFP	%	Montsech
Neumann 1993	Orbitoides	megaloformis	%	32 32 32	Maastrichtian	ESP	EFP	%	Montsech
Neumann 1993	Orbitoides	gruenbachensis	%	32	Maastrichtian	ESP	EFP	%	Montsech
Neumann 1993	Orbitoides	apiculata	%	32	Maastrichtian	ESP	EFP	%	Montsech
Neumann 1993	Orbitoides	media megaloform is	%	59	Maastrichtian	AUT	EFP	%	Pemberger IV, Alpes Carniques
Neumann 1993	Orbitoides	media	%	59	Maastrichtian	AUT	EFP	%	Pemberger IV, Alpes Carniques
Neumann 1993	Orbitoides	gruenbachensis	%	59	Maastrichtian	AUT	EFP	%	Région de Vienne
Neumann 1993	Orbitoides	apiculata tenuistriata	%	59	Maastrichtian	AUT	EFP EFP	%	Région de Vienne
Neumann 1993 Neumann 1993	Orbitoides Orbitoides	gruenbachensis apiculata	%	71	Maastrichtian Maastrichtian	SVK/CZE SVK/CZE	EFP	×	Tchécoslovaquie Tchécoslovaquie
Neumann 1993	Orbitoides	tissoti	70 96	4	late Campanian	CLIB	CFP	~	Cuba
Neumann 1993	Orbitoides	tissoti	70	۱ «۵	late Campanian	MEX	CFP	%	Cuua Mexique
Neumann 1993	Orbitoides	tissoti	ŝ	°. ac	late Campanian	SOM	AFP		Somalie
Neumann 1993	Orbitoides	media	%	1	late Campanian	CUB	CFP	~	Cuba
Neumann 1993	Orbitoides	media	~		late Campanian	MEX	CFP		Cuua Mexique
Neumann 1993	Orbitoides	media	°é	51	late Campanian	PNG	ASP	- ŵ	Nouvelle Guinée
Neumann 1993	Orbitoides	megaloformis	%	1	late Campanian	CUB	ASP CFP	%	Cuba
Neumann 1993	Orbitoides	media	%	2	early Maastrichtian	USA	CFP	%	Floride
Neumann 1993	Orbitoides	media	%	1	early Maastrichtian	CUB	CFP	%	Cuba
Neumann 1993	Orbitoides	megaloformis	%	2	early Maastrichtian	USA	CFP	%	Floride
Neumann 1993	Orbitoides	megaloformis	%	1	early Maastrichtian	CUB	CFP	%	Cuba
Neumann 1993	Orbitoides	gruenbachensis	%	2	early Maastrichtian	USA	CFP	%	Floride
Neumann 1993	Orbitoides	gruenbachensis	%	1	early Maastrichtian	CUB	CFP	%	Cuba
Neumann 1993	Orbitoides	tissoti	%	·**	late Maastrichtian	MEX	CFP	%	Mexique
Neumann 1993	Orbitoides	tissoti	%	40	late Maastrichtian	PAK	CFP CFP ASP CFP	%	Pakistan
Neumann 1993 Neumann 1993	Orbitoides Orbitoides	media media	%	% 46	late Maastrichtian late Maastrichtian	MEX PAK	LCFP ACD	1 %	Mexique Pakistan
Neumann 1993 Neumann 1993	Orbitoides	megaloformis	76 %	45 %	late Maastrichtian	MEX	ASP CFP	70 97	Pakistan Mexique
Neumann 1993	Orbitoides	megaloformis	20 QL	10	late Maastrichtian	VEN	CFP	04	Mexique Venezuela
Neumann 1993	Orbitoides	gruenbachensis	ŵ.	1	late Maastrichtian	CUB	CFP	1 ×	Cuba
Neumann 1993	Orbitoides	gruenbachensis	%		late Maastrichtian	MEX	CFP	8	Mexique
Neumann 1993	Orbitoides	apiculata	%	1	late Maastrichtian	CUB	CFP	w w	Cuba
Neumann 1993	Orbitoides	apiculata	%	<u>%</u>	late Maastrichtian	MEX	CFP	%	Mexique
Özcan 1993	Orbitoides	sp.	%	38	late Maastrichtian	TUR	EFP	%	Alidami section, north-east Kahta region, southeastern Turkey
Özcan 1993	Orbitoides	media	d'Archiac	38	late Maastrichtian	TUR	EFP EFP	fig.4a-d	north-east Kahta region, southeastern Turkey
Özcan 1993	Orbitoides	media	d'Archiac	38	late Maastrichtian	TUR	EFP	fg.4a-d	north-east Kahta region, southeastern Turkey
Özcan 1993	Orbitoides	media	%	38	middle Maastrichtian-Paleocene(?)	TUR	EFP	*	north-east Kahta region, southeastern Turkey
Özcan & Özkan-Altiner 1997	Orbitoides	sp.	%	38	late Campanian	TUR	EFP	%	NE side of the Kargasekmez ridge, 1.5 km NW of Haymana
Özcan & Özkan-Altiner 1997 Özcan & Özkan Altiner 1997	Orbitoides Orbitoides	sp.	*	38 38	early Maastrichtian early Maastrichtian	TUR	EFP	1 %	66 m above HAY-W-82 26 m above HAY-W-91
Özcan & Özkan-Altiner 1997 Özcan & Özkan-Altiner 1997	Orbitoides	sp. sp.	% ~	30 29	early Maastrichtian late Maastrichtian	TUR TUR	EFP EFP	×	26 m above HAY-W-91 1 km SW of Yesilyurt village
Özcan & Özkan-Altiner 1997 Özcan & Özkan-Altiner 1997	Orbitoides	sp. sp.	70 92	38 38 38 38 38 38 38	late Maastrichtian	TUR	EFP	70 %	1 km SVV of Yesilyut village 40 m above HAY-W415
Özcan & Özkan-Atliner 1997	Orbitoides	sp.	70 96	38	late Maastrichtian	TUR	EFP	l %	Put adverter Ar-W-TTS near Saridegimen village, 10 km NW of Haymana
Özcan & Özkan-Attiner 1997	Orbitoides	sp.		38	early Maastrichtian	TUR	EFP		near sancegimen winge, to kin www.or naymana 2.5 km NE of Haymana, Hamana-Arkar roadside
Özcan & Özkan-Altiner 1997	Orbitoides	sp.	ŝ	38	late Maastrichtian	TUR	EFP EFP		500 m SE of He Katalawa Hill
Özcan & Özkan-Altiner 1997	Orbitoides	sp.	%	38	Campanian-Maastrichtian	TUR	EFP	- ŵ	SW of Haymana
Özcan & Özkan-Altiner 1997	Orbitoides	sp.	%	38	late Maastrichtian	TUR	EFP	%	SVV of Haymana
Özcan & Özkan-Altiner 1997	Orbitoides	megaloformis	Papp & Küpper	38	late Campanian	TUR	EFP	2(5-7)	NE side of the Kargasekmez ridge, 1.5 km NVV of Haymana
Özcan & Özkan-Altiner 1997	Orbitoides	megaloformis	Papp & Küpper	38	early Maastrichtian	TUR	EFP	2(8-11)	66 m above HAY-W-82
Özcan & Özkan-Altiner 1997	Orbitoides	megaloformis	Papp & Küpper	38	early Maastrichtian	TUR	EFP	2(12-17)	26 m above HAY-W-91
Özcan & Özkan-Altiner 1997	Orbitoides	megaloformis	Papp & Küpper	38	early Maastrichtian	TUR	EFP	2(18)	2.5 km NE of Haymana, Hamana-Ankara roadside
Özcan & Özkan-Altiner 1997	Orbitoides	megaloformis	Papp & Küpper	38	late Campanian?-early Maastrichtian?	TUR	EFP	3(1)	2.5 km NE of Haymana, Hamana-Ankara roadside
Özcan & Özkan-Altiner 1997	Orbitoides	apiculata	Schlumberger	38	late Maastrichtian	TUR	EFP	3(2,9)	SW of Haymana
Özcan & Özkan-Altiner 1997	Orbitoides	apiculata	Schlumberger	38	late Maastrichtian	TUR	EFP	3(3,5,12)	1 km SW of Yesilyut village
Özcan & Özkan-Altiner 1997	Orbitoides	apiculata	Schlumberger	38	late Maastrichtian	TUR	EFP	[3(4)	40 m above HAY-W-115

Neumann 1993	1 %	96	96	Illustrations by different authors
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Neumann 1993	70	70	76	Illustrations by different authors
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Neumann 1993	%	%	%	%
Neumann 1993	8	%	%	%
Neumann 1993 Neumann 1993	2	%	% ~	%
Neumann 1993 Neumann 1993	×	96	76	76
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Neumann 1993	%	%	8	20 %
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Neumann 1993	%	%	%	%
Neumann 1993 Özcan 1993	%	%	%	%
Ozcan 1993	%	Sirtina Sites Parala a fatis	red coloured, coarse clastics and locally sandy carbonate intercalations	%
Özcan 1993 Özcan 1993	%	Siderolites, Omphalocyclus, Loftusia Siderolites, Omphalocyclus, Sittina Lacidettiteidea, Latturia	triable sands and carbonate units; shallowwater triable conde and carbonate units; shallowwater	% %
Özcan 1993 Özcan 1993	70	Siderolites, Omphalocyclus, Sirtina, Lepidorbitoides, Loftusia Siderolites, Loftusia	triable sands and carbonate units; shallow-water marts and sittstones	70
Özcan & Özkan-Altiner 1997	Fig. 1	Lepidorbitoides	coarse-grained sandstone	%
Özcan & Özkan-Altiner 1997	Fig. 1	Lepidorbitoides	1.5-2 m thick friable sitstone-sandstone bed	%
Özcan & Özkan-Altiner 1997	Fig. 1	Lepidorbitoides	yellowish gray coloured, very fossiliferous and friable siltstone-sandstone	%
Özcan & Özkan-Altiner 1997	Fig. 1		20-40 cm thick friable sandstone bed	%
Özcan & Özkan-Altiner 1997	Fig. 1	Lepidorbitoides, Omphalocyclus	massive dastic part	%
Özcan & Özkan-Altiner 1997	Fig. 1	Lepidorbitoides, Omphalocyclus, Siderolites, Sirtina, Hellenocyclina	3 m thick biodastic horizon	%
Özcan & Özkan-Altiner 1997 Özcan & Özkan-Altiner 1997	Fig. 1	%	3 m thick sandstone-sandy limestone 50 cm thick well compared conditions between shele most units	% *
Özcan & Özkan-Attiner 1997 Özcan & Özkan-Attiner 1997	Fig. 1 Fig. 1	Lepidorbitoides, Sirtina, Omphalocyclus, Siderolites, Hellenocyclina 96	50 cm thick well-cemented sandstone horizon between shale-marl units sandstone-conglomerate	% disseminated tests
Özcan & Özkan-Altiner 1997	Fig. 1	Lepidorbitoides, Loftusia, Siderolites, Hellenocyclina, Sirtina, Omphalocyclus	nodular, friable limy sandstone and sandy limestone beds	%
Özcan & Özkan-Altiner 1997	Fig. 1	%	%	96
Özcan & Özkan-Altiner 1997	Fig. 1	%	%	%
Özcan & Özkan-Altiner 1997	Fig. 1	%	%	%
Özcan & Özkan-Altiner 1997	Fig. 1	%	%	%
Özcan & Özkan-Altiner 1997	Fig. 1	1 % ~	1 % ~	%
Özcan & Özkan-Altiner 1997 Özcan & Özkan-Altiner 1997	Fig. 1 Fig. 1	% 92	% or	76 92
Özcan & Özkan-Attiner 1997 Özcan & Özkan-Attiner 1997	Fig. 1	70	70 96	%
•	• -	•	•	· · · · ·

Özcan & Özkan-Altiner 1997	Orbitoides	apiculata	Schlumberger	38	late Maastrichtian	TUR	FEP	3(6,8)	near Saridegirmen village, 10 km NW of Haymana
Özcan & Özkan-Altiner 1997	Orbitoides	apiculata	Schlumberger	38	late Maastrichtian	TUR	EFP	3(7,11)	near Saridegimien village, 10 km NV of Haymana
Özcan & Özkan-Altiner 1997	Orbitoides	apiculata	Schlumberger	38	late Maastrichtian	TUR	EFP	3(10)	near Saridegirmen village, 10 km NW of Haymana
Özcan & Özkan-Altiner 1997	Orbitoides	apiculata	Schlumberger	38	late Maastrichtian	TUR	EFP	4(1)	500 m SE of the Kartalkaya Hill
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	Orbitoides Orbitoides	media media	(d'Archiac) (d'Archiac)	5 	late Campanian/early Maastrichtian late Campanian/early Maastrichtian	TUR	EFP	fig.4(1) fig.4(2)	*
Özcan & Özkan-Atiner 1999a	Orbitoides	media	(d'Archiac)	38	ate campanianeany maashchian	TUR	EFP	fig.4(3)	north-east of Adivaman. southeast Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	media	(d'Archiac)	38	Maastrichtian	TUR	EFP	fg.4(4)	east of Cide, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	megaloformis	Papp & Küpper	38	Campanian-Maastrichtian	TUR	EFP	fg.4(5)	north-west of Hayman, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	megaloformis	Papp & Küpper	38	Campanian-Maastrichtian	TUR	EFP	fg.4(6)	north-west of Hayman, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	megaloformis	Papp & Küpper	38	Maastrichtian	TUR	EFP	fig.4(7)	north-east of Adiyaman, southeast Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides Orbitoides	megaloformis	Papp & Küpper Papp & Küpper	38 38	Maastrichtian Campanian-Maastrichtian	TUR TUR	EFP	fg.4(8) fg.4(9)	north-east of Adiyaman, southeast Anatolia
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	Orbitoides	megaloformis megaloformis	Papp & Küpper Papp & Küpper	38	Campanian-Maastrichtian	TUR	EFP	19.4(9) fg.4(10)	north-west of Hayman, central Anatolia north-west of Hayman, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	megaloformis/gruenbachensis	Papp & Küpper/Papp	38	Campanian-Maastrichtian	TUR	FFP	fg.4(10)	north of Handhu, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	megaloformis/gruenbachensis	Papp & Küpper/Papp	38	Campanian-Maastrichtian	TUR	EFP	fg.4(12)	north of Hanönü, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	gruenbachensis	Papp	38	Maastrichtian	TUR	EFP	fig.4(13)	east of Cide, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	gruenbachensis	Рарр	38	Maastrichtian	TUR	EFP	fg.4(14)	east of Cide, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	gruenbachensis	Papp	38	Maastrichtian	TUR	EFP	tig.4(15)	east of Cide, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	gruenbachensis	Papp	38	Maastrichtian	TUR	EFP	fg.4(16)	east of Cide, central Anatolia
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	Orbitoides Orbitoides	apiculata apiculata	Schlumberger Schlumberger	38 38	Campanian-Maastrichtian Campanian-Maastrichtian	TUR	EFP	fig.4(17) fig.4(18)	north-west of Hayman, central Anatolia north-west of Hayman, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	apiculata	Schlumberger	38	late Maastrichtian	TUR	FFP	fg.4(10)	north of Hayman, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	apiculata	Schlumberger	38	Maastrichtian	TUR	EFP	fg.4(21)	east of Cide, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	apiculata	Schlumberger	38	Maastrichtian	TUR	EFP	fg.4(22)	east of Cide, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	apiculata	Schlumberger	38	Maastrichtian	TUR	EFP	fig.4(23)	east of Cide, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	apiculata	Schlumberger	38	Maastrichtian	TUR	EFP	fig.4(24)	east of Cide, central Anatolia
Özcan & Özkan-Altiner 1999a	Orbitoides	apiculata(?)	Schlumberger	38	late Campanian/early Maastrichtian	TUR	EFP	fig.4(20)	south of Hayman, central Anatolia
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Orbitoides Orbitoides	media media	%	38 38	Campanian	TUR	EFP	%	Cide area (NW Black Sea coast) Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Orbitoides	media megaloformis	70	38	Campanian Campanian	TUR	EFP	% %	Cide area (NW Black Sea coast) Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	megaloformis	%	38	Maastrichtian	TUR	EFP		Cide area (NVV Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	gruenbachensis	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	gruenbachensis	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW/ Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	gruenbachensis	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	megaloformis	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Orbitoides	megaloformis	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW/ Black Sea coast) Cide area (NW/ Black Sea coast)
Özcan & Özkan-Atiner 1999b Özcan & Özkan-Atiner 1999b	Orbitoides	gruenbachensis gruenbachensis	%	38 38	Maastrichtian Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast) Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	gruenbactensis	%	38	Maastrichtian	TUR	FFP	%	Cide area (NVY Biack Sea Coast) Cide area (NVY Biack Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	apiculata		38	Maastrichtian	TUR	EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Cide area (NW Black See coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	gruenbachensis	%	38	Maastrichtian	TUR	EFP		Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	gruenbachensis	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	apiculata	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW/Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	apiculata	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Orbitoides Orbitoides	gruenbachensis apiculata	% %	38	Maastrichtian Maastrichtian	TUR	EFP	%	Cide area (NW/ Black Sea coast) Cide area (NW/ Black Sea coast)
Özcan & Özkan-Atiner 1999b	Orbitoides	apiculata	% %	38	Maastrichtian	TUR	FFP	%	Uide area (NW Black Sea coast) Cide area (NW Black Sea coast)
Özcan & Özkan-Atliner 1999b	Orbitoides	apiculata	96	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea Coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	apiculata	%	38	Maastrichtian	TUR	EFP		Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Orbitoides	megaloformis	%	38	Campanian-Maastrichtian	TUR	EFP	%	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	megaloformis	%	38	Campanian-Maastrichtian	TUR	EFP	%	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	apiculata	%	38	Campanian-Maastrichtian	TUR	EFP	%	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	gensasicus	%	38	Campanian-Maastrichtian	TUR	EFP	%	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Orbitoides Orbitoides	apiculata megaloformis	76	38	% early Maastrichtian	TUR TUR	EFP	%	Haymana area (central Anatolia) Kahta area (SE Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	gruenbachensis	70	38	early Maastrichtian	TUR	EFP	70	Kanta area (SE Anatolia) Kahta area (SE Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	megaloformis	%	38	early Maastrichtian	TUR	EFP		Kahta area (SE Anatola)
Özcan & Özkan-Altiner 1999b	Orbitoides	gruenbachensis	%	38	early Maastrichtian	TUR	EFP	%	Kahta area (SE Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	megaloformis	%	38	Campanian-Maastrichtian	TUR	EFP	%	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	megaloformis	%	38	Campanian-Maastrichtian	TUR	EFP	%	Hanönü area (NVV Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	megaloformis	%	38	Campanian-Maastrichtian	TUR	EFP	%	Handhiù area (NVV Anatolia)
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Orbitoides Orbitoides	gruen bachen sis megaloform is	%	38 38	Campanian-Maastrichtian Campanian-Maastrichtian	TUR	EFP	%	Hanönü area (NVV Anatolia) Hanönü area (NVV Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	aruenbachensis	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	38	Campanian-Maastrichtian	TUR	FFP	l «	Hariorid alea (NVV Anatolia) Hanönü area (NVV Anatolia)
Özcan & Özkan-Altiner 1999b	Orbitoides	gruenbachensis	%	38	Campanian-Maastrichtian	TUR	EFP		Hanonia area (NW Anatolia) Hanönü area (NW Anatolia)
Özkan-Altiner & Özcan 1999	Orbitoides	apiculata	%	38	Maastrichtian	TUR	EFP	%	Haymana region
Özkan-Altiner & Özcan 1999	Orbitoides	megaloformis	%	38	Campanian	TUR	EFP	%	Haymana region
Özkan-Altiner & Özcan 1999	Orbitoides	apiculata	%	38	Maastrichtian	TUR	EFP	%	Haymana region
Özkan-Altiner & Özcan 1999	Orbitoides	gensacicus	%	38	Maastrichtian	TUR	EFP	\ <u>*</u>	Haymana region
Özkan-Altiner & Özcan 1999 Özkan-Altiner & Özcan 1999	Orbitoides	megaloformis megaloformis	%	38	Maastrichtian Maastrichtian	TUR	EFP	%	Haymana region Haymana region
Özkan-Altiner & Özcan 1999 Özkan-Altiner & Özcan 1999	Orbitoides	megaloformis megaloformis	76	38	Campanian	TUR	FFP	%	Haymana region Haymana region
Özkan-Altiner & Özcan 1999	Orbitoides	megaloformis	%	38	Maastrichtian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Orbitoides	gruenbachensis	%	38	Maastrichtian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Orbitoides	gruenbachensis	%	38	Maastrichtian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Orbitoides	megaloformis	%	38	Maastrichtian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999 Özkon Altiner & Özcon 1999	Orbitoides	media	%	38	Campanian	TUR	EFP FFP	*	Cide region
Özkan-Altiner & Özcan 1999 Özkan-Altiner & Özcan 1999	Orbitoides Orbitoides	megalotormis media	%	38 38	Campanian Campanian	TUR	EFP	%	Cide region Cide region
Özkan-Altiner & Özcan 1999 Özkan-Altiner & Özcan 1999	Orbitoides	aniculata	70 92	38	Campanian Maastrichtian	TUR	EFP	%	Cide region Cide region
Özkan-Altiner & Özcan 1999	Orbitoides	quenbachensis	%	38	Maastrichtian	TUR	EFP	×	Cide region
Özkan-Altiner & Özcan 1999	Orbitoides	gruenbachensis	%	38	Maastrichtian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Orbitoides	megaloformis	%	38	Maastrichtian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Orbitoides	gruenbachensis	%	38	Maastrichtian	TUR	EFP	%	Hanönü region
Özkan-Altiner & Özcan 1999	Orbitoides	megaloformis	%	38	Maastrichtian	TUR	EFP	%	Hanönü region
Papp 1954 Papp 1954	Orbitoides	tis soti ti ssoti tis anti minime	Schlumberger	59 59	Campanian	AUT	EFP	[∞]	Silberegg SW of Guttaring, Kärnten
P/800 1954	Orbitoides Orbitoides	tissoti minima tissoti tissoti	Vredenburg Schlumberger	59 59	Campanian	AUT AUT	EFP	%	Silberegg SW of Guttaring, Kärnten Steinbruch Wietersdorfer Zementfabrik , Pemberger Riegel, oberhalb Bergstation
Dana 4054		tissoti tissoti media media	Schlumberger d'Archiac	59	Campanian Campanian	AUT	EFP	70 07	Steinbruch Wietersdorfer Zementfabrik , Pemberger Riegel, oberhalb Bergstation Steinbruch Wietersdorfer Zementfabrik , Pemberger Riegel, oberhalb Bergstation
Papp 1954			parma ca noro	100		TLA	EFP	~	Steinbruch Vieterscorrer Zementiabrik , Pemberger Riegel, obernalb Bergstation Gehöft Pemberger
Papp 1954 Papp 1954 Papp 1954	Orbitoides Orbitoides	tis soti ti ssoti	Schlumberger	59	Campanian			%	
Papp 1954 Papp 1954 Papp 1954		tissoti tissoti aff. tissoti minima	Schlumberger ∀redenburg	59 59	Campanian Campanian	AUT	EFP	%	Gehöft Pemberger
Papp 1954 Papp 1954 Papp 1954 Papp 1954 Papp 1954	Orbitoides								leentuin remuseure (Gehtith Pemberger Gehtith Pemberger

Öczan A Özkan-Alliner 1997 Fig. 1 Öczan A Özkan-Alliner 1997 Fig. 1 Öczan A Özkan-Alliner 1997 Fig. 1 Öczan A Özkan-Alliner 1998 Fig. 1 Öczan A Özkan-Alliner 1998a Fig. 1 Öczan A Özkan-Alliner 1998a Öczan A Özkan-Alliner 1998a Öczan A Özkan-Alliner 1998a Öczan A Özkan-Al	1	% % % % % % % % % % % % % % % % % % %		X X X X X X X X X X X X X X X X X X X	% % % % % primitive form % % % % primitive form % advanced form % advanced form % advanced form form transitional form transitional form
Oxana & Oxtan-Alten 1997 Fig. 1 Oxana & Oxtan-Alten 1993 Fig. 1 Oxana & Oxtan-Alten 1993 Oxana & Oxtan-Alten 1993	1 1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	* % * * * * * * * * * * * * * * * * * *		X X X X X X X X X X X X X X X X X X X	% % % primitive form primitive form primitive form % advanced form advanced form transitional form transitional form transitional form
Özana 6 Özkan-Altere 1997 Fig. 1 Özana 6 Özkan-Altere 1993a Özana 8 Özkan-Altere 1993a Özana 8 Özkan-Altere 1993a Özana 8 Özkan-Altere 1993a	1 % % % % % % % % % % % % % % % % % % %	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		8 % % % % % % % % % % % % %	% % % primitive form % advanced form 4advanced form transitional form transitional form
Özan & Özkan-Allmer 1998a Özan & Özkan-Allmer 1998a	****			56 56 56 56 56 56 56 56 56 56 56 56 56 5	% primitive form primitive form % advanced form advanced form transitional form transitional form
Özan 8 Özkan-Allter 1993a Özan 8 Özkan-Allter 1993a	****				% primitive form primitive form primitive form % advanced form % advanced form transitional form transitional form
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Özzan & Özkan-Alter (1998) Özzan & Özkan-Alter (1998)	96 96 96 96 96 96 96 96 96 96 96 96 96 9	** ** ** ** ** ** ** * * * * * * * * *		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	% advanced form fransitional form transitional form
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0 xan 8 0 xian-Alter 1999a 0 xan 8 0 xian-Alter 1999a	% % % % % %	16 16 16 16 16 16 16 16 16 16 16 16 16 1		% % % %	advanced form advanced form transitional form transitional form
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Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	96 96 96	%		% %	% %
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Özcan & Özkan-Altiner 1999a		%		% 	% Y
Özren 8 Özken Atiner 1999a	~	70		76 %	70
	%	96		%	%
Özcan & Özkan-Altiner 1999a	%	%		%	%
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides Lepidorbitoides		% x	G. elevata zone G. ventricosa-R. calcarata zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides		~ %	G. ventricosa-R. calcarata zone G. ventricosa-R. calcarata zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites		%	G. aegyptiaca zone
Ozcan & Ozkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites	•	%	G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites Lepidorbitoides, Siderolites		76 76	G. gansseri zone G. gansseri zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites Lepidorbitoides, Siderolites, Omphalocyclus		%	G. gansseri zone G. gansseri zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites, Omphalocyclus		%	G. gansseri zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites, Omphalocyclus		%	G. gansseri zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites, Omphalocyclus Lepidorbitoides, Siderolites, Omphalocyclus		70 %	G. gansseri zone G. gansseri zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites, Omphalocyclus		~ %	G. gansseri zone
Özcan & Özkan-Altiner 1999b Fig. 3	3 1	Lepidorbitoides, Siderolites, Omphalocyclus		36	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites, Omphalocyclus		%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites, Omphalocyclus Lepidorbitoides, Siderolites, Omphalocyclus, Sirtina		% %	A. mayaroensis zone A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis		%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis		%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina Lepidorbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina		%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3		Lepidorbitoides, Siderolites, Omphalocyclus, Sirtina, Ciypeorbis, Hellenocyclina Lepidorbitoides, Siderolites, Omphalocyclus, Sirtina, Ciypeorbis, Hellenocyclina		70 %	A. mayaroensis zone A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides		%	R. calcarata zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides		%	G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Omphalocyclus Lepidorbitoides, Omphalocyclus		%	A. mayaroensis zone A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Omphalocyclus, Sirtina, Hellenocyclina		% %	%
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Omphalocyclus		%	possibly G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Omphalocyclus		%	possibly G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides, Omphalocyclus Lepidorbitoides, Omphalocyclus		76 M	possibly G. aegyptiaca zone possibly G. aegyptiaca zone
Özcan & Özkan-Attiner 1999b Fig. 3	3	Lepidorbitoides		% %	G. havanensis zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides		%	G. havanensis (?) - G. aegyptiaca (?) zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3		Lepidortitoides Lepidortitoides		% x	G. havanensis (?) - G. aegyptiaca (?) zone G. havanensis (?) - G. aegyptiaca (?) zone
Özcan & Özkan-Altiner 1999b Fig. 3 Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides		70 Xa	G. havanensis (7) - G. aegyptiaca (7) zone G. havanensis (?) - G. aegyptiaca (?) zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides		%	G. havanensis (?) - G. aegyptiaca (?) zone
Özcan & Özkan-Altiner 1999b Fig. 3	3	Lepidorbitoides		%	G. havanensis (?) - G. aegyptiaca (?) zone G. havanensis (?) - G. aegyptiaca (?) zone
Özkan-Altiner & Özcan 1999 Fig. 1 Özkan-Altiner & Özcan 1999 Fig. 1	1	Abathomphalus mayaroensis Radotruncana calcarata		% %	%
Özkan-Attiner & Özcan 1999 Fig. 1 Özkan-Attiner & Özcan 1999 Fig. 1	1	Radorruncana caicarata Abathomphalus mayaroensis		%	%
Özkan-Altiner & Özcan 1999 Fig. 1	1 .	Abathomphalus mayaroensis	•	%	%
Özkan-Altiner & Özcan 1999 Fig. 1	1	Globdruncana aegyptiaca	· · · · · · · · · · · · · · · · · · ·	%	%
Özkan-Altiner & Özcan 1999 Fig. 1 Özkan-Altiner & Özcan 1999 Fig. 1	1	Globdruncanella havanensis Raddruncana calcarata		76 Xa	% %
Özkan-Altiner & Özcan 1999 Fig. 1	1	Gansserina gansseri		~ %	%
Özkan-Altiner & Özcan 1999 Fig. 1	1	Gansserina gansseri		%	%
Özkan-Altiner & Özcan 1999 Fig. 1		Globotruncana aegyptiaca		%	%
Özkan-Altiner & Özcan 1999 Fig. 1 Özkan-Altiner & Özcan 1999 Fig. 1	1	Globotruncana aegyptiaca Radotruncana calcarata		70 %	76 92
Özkan-Altiner & Özcan 1999 Fig. 1	1	Radotruncana calcarata		%	%
Özkan-Altiner & Özcan 1999 Fig. 1	1	Globotruncanita elevata	•	%	%
Özkan-Altiner & Özcan 1999 Fig. 1 Özkan-Altiner & Özcan 1999 Fig. 1 Özkan-Altiner & Özcan 1999 Fig. 1	1	Abathomphalus mayaroensis Abathomphalus mayaroensis		% x	%
Özkan-Attiner & Özcan 1999 Fig. 1 Özkan-Attiner & Özcan 1999 Fig. 1	1	Abarnompnatus mayaroensis Gansserina gansseri		~~ %	20 96
Özkan-Altiner & Özcan 1999 Fig. 1	1	Gansserina gansseri		%	96
Özkan-Altiner & Özcan 1999 Fig. 1	1	Globotruncana aegyptiaca	•	%	%
Özkan-Altiner & Özcan 1999 Fig. 1	1	Globotruncana aegyptiaca Eidensites Resultatiticios		% ×	%
Papp 1954 Papp 1954	76 %	Siderolites, Pseudorbitoides Siderolites, Pseudorbitoides		%	76 96
Papp 1954	%	Siderolites, Pseudorbitoides		 %	%
Papp 1954	%	Siderolites, Pseudorbitoides	· •	%	%
Papp 1954	%	%	Sandstones		%
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Papp 1954	%		Sandstones		%

Pape 1954 Ontbiddes media megialotomis Pape 364 Ontbiddes media megialotomis Pape 365 Campanian AUT EFP % Ortholdes Pape 1954 Ontbiddes media % 57 Meastichtian AUT EFP % Measticht Pape 1954 Ontbiddes apiculata % 57 Meastichtian AUT EFP % Meastichtian Pape 1954 Ontbiddes apiculata % 57 Meastichtian AUT EFP % Meastichtian Pape 1954 Ontbiddes apiculata % 59 Meastichtian AUT EFP % Ontbiddes Erysch bei Ven, Gossu bei Grünbach Pape 1955h Ontbiddes tisodi tisodi Schumberger 59 Campanian AUT EFP % Pape 1950 Ontbiddes tisodi tisodi Schumberger 50 Campanian AUT EFP % Pape 1950 Ontbiddes tisodi tisodi Schumberger 50 Campanian	
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Page 1954 Ontbiddes aplcuaten % 59 Maestichtian AUT EFP % Flysts bei Ven, Gosu bei Grünbach Page 1954 Ontbiddes aplcuaten % 59 Maestichtian FR.A EFP % Prept 1955 Page 1955b Ontbiddes tissolit issolit Schlumberger 59 Campanian AUT EFP % Fundote S Guttaring Siberegg () Page 1955b Ontbiddes tissolit issoli Schlumberger 59 Campanian AUT EFP % Fundote S Guttaring Siberegg () Page 1955b Ontbiddes tissolit issoli Schlumberger 59 Campanian AUT EFP % Fundote S Guttaring Siberegg () Page 1955b Ontbiddes tissolit issolit Schlumberger 59 Campanian AUT EFP % Sandsteinagen bei Pemberger (!) Page 1955b Ontbiddes tissolit issolit Schlumberger 59 Campanian AUT EFP % Fundote S Gutaring Siberegg () Page 1955b<	
Papp 1954 Orbitoldes apoLutata % 31 Meastinchian FRA EFP % Genact Fust-ora Papp 1955D Orbitoldes tissotti sosti Schlumberger 59 Campanian ALT EFP % Fundords Gutaring Papp 1955D Orbitoldes tissotti sosti Schlumberger 59 Campanian ALT EFP % Fundords Gutaring Papp 1955D Orbitoldes tissotti sosti Schlumberger 59 Campanian ALT EFP % Perbergerlegi Sterbruch Widersdor Papp 1955D Orbitoldes tissotti sosti Schlumberger 59 Campanian ALT EFP % Parbergerlegi Sterbruch Widersdor Papp 1955D Orbitoldes tissotti minina Vedenburg 59 Campanian ALT EFP % Fundords Outside Sandsterlagen bergerlegi Sterbruch Widersdor Papp 1955D Orbitoldes tissott minina Vedenburg 59 Campanian ALT EFP % Perbergerlegi Sterbruch Widersdor	
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Papp 1955b Orbtoides media (d'Archiac) 59 Campanian AUT EFP % nòrdich Gehöft Pemberger (III) Papp 1955b Orbtoides media media (d'Archiac) 59 Campanian AUT EFP % Sandsteinlagen bei Pemberger (IV) Papp 1955b Orbtoides media media/orbit Papp & Klopper 59 Campanian AUT EFP % Sandsteinlagen bei Pemberger (IV)	
Papp 19556 Orbitoides media (d'Anchiao) 59 Campanian μL/I EFP % Sandsteinlagen bei Pemberger (1γ) Papp 19556 Orbitoides media meaiotomis Papp ak/upper 59 Campanian μL/I EFP % Sandsteinlagen bei Pemberger (1γ)	11(0)
Papp 1955b Orbitoldes media megaloformis Papp & Küpper 59 Campanian AUT EFP % Sandsteinlagen bei Pemberger (IV)	
Papp 1955b Orbitoides jaegeri Papp & Küpper (59 Campanian AUT (EFP % Sandsteinlagen bei Pemberger (IV)	
Papp 1955c Orbitoldes media planiformis n. ssp. 59 late Campanian AUT EFP 1(1,3-6), 3(1) 250 m.S.Strassenhöhe zwischen Dreistette	en - Bad Fischau
Peop 1955 Orbitoides aploidate gritobachensis n. ssp. 59 early Maastrichtion JAUT EFP 2(1.4.8,8) 3(2) Orbitoidensandsteine bei Grünbach Peop 1955 Orbitoides aploidate grünbachensis n. ssp. 59 early Maastrichtion JAUT EFP 2(7.4,8,8) 3(2) Orbitoidensandsteine bei Grünbach Peop 1955 Orbitoides aploidate grünbachensis n. ssp. 59 early Maastrichtion JAUT EFP 2(7.4,9,0) 2.0 Orbitoidensandsteine bei Krampen	
reupinsos of utoutes paputara grundantenso n.ssp. 39 entry madeututarian P=0 p=0 p=1	dorf (Kärnten)
Papp 1955C Orbitolides media ssp. Indet % 59 early Maastrichtian /4UT EFP 2(11) Ontibidensandsteine bei Grünbach	and the state of t
Papp 1955c Orbitoides cf. gensacica (Leymerie) 59 early Maastrichtian AUT EFP 1(7) Orbitoidensandsteine bei Grünbach	
Papp 1956a Orbitoides media media (d'Archiac) 59 Campanian AUT EFP 1(6) Pemberger Sandsteine	
Papp 1956a Orbitoides media n. ssp. 59 Campanian AUT EFP 1/(7) Hagenbachklamm	
Paop 1956a Ortkoldes media media (n. sp. 31 Campanian FRA EFP 1(8) St. George Paop 19566 Ortkoldes media megaloromis Papa & Kupper 59 Campanian AUT EFP 1(9) Magenbachtaram	
Papp 1956a Ortstoides media megalotomis Papp & Kupper 59 Campanian AUT EFP (10) Hagenbachkamn Papp 1956a Ortstoides apoludatateruistata Douvilé 59 Massinchian AUT EFP (110.11) Sivering-Gspöttrasken	
radu 1950a Ontkoldes jageri n. sp. 59 unterso Ontkoldes Senon AUT EFP (1(2,2(1) Sandtahere Pemberger	
reup a roupier 1353 a Chundhes pegen i i.s., 39 unteres functiones entrol μ μ (1, γ, χ, ζ) partaletar e reintege Pap β Klopper 1853 a Chrititales jeageri i n.s., 59 % / AUT EFP 2(2) Seinthrassering, Gspöl	ittgraben
Papp 8 Küpper 1953a Orbitoldes jaegeri n. sp. 59 % AUT EFP 2(3) Sandsteine Hagenbachklamm. Nordende t	bei Wien
Papo & Küpper 1953a Orbitoides aff. tissoti minima (Vredenburg) 59 unteres Orbitoides-Senon AUT EFP (13,4); 3(1) Sandsteine Pemberger	
Papp & Küpper 1853a Orbitoldes media (d'Archiac) 59 unteres Orbitoldes-Senon AUT EFP (15-7), 2(4) Sandsteine Pemberger	
Pape & Voper 1953a Ortholdes media media (d'Archiac) 31 % FRA EFP 3(2), 4(1) Bergerac Pape & Voper 1953a Ortholdes media media/media (d'Archiac) 31 % FRA EFP 3(2), 4(1) Bergerac Pape & Kloper 1953a Ortholdes media media/media (d'Archiac) 59 uteres Ortholdes All T FFP 1(9.3) Sandtriace Pembraner	
Papp 3 Kupper 1953a Orbitoides Insolita media megalotomis n. sp. 59 unteres Ontbioldes. Senon JAUT EFP 11(3,9) Sandsteine Pemberger Papp 3 Kupper 1953b Orbitoides Itssolit issolit Schlumberger 59 Campanian JAUT EFP 11(1,4) Siblerega Steinbuch	
repo robper 1530 Ontonies μissourissoni Duranneger 39 Campanian Poli CF μ(r,*) phereggisentouri Papp & Kupper 1630 Ontonies μissourissoni Sultimeteger 59 Campanian AUT EFP fl(2) Starbuch auf der Hohe Pemberger-Riege	el XADAGetersdorf
reportanza contanza a la contanza de la contanza de La contanza de la cont	or, vv vvictorsuori
Papp & Küpper 1953b Orbitoldes tissoti minima Vredenburg 59 Campanian AUT EFP 2(1) Unter-Kirchwaldberg	
Papp & Küpper 1953b Orbitoides tissoti Schlumberger 59 Campanian AUT EFP 2(2) Unter-Kirchwaldberg	
Paquier 1904 Orbitoides media drArchiac 31 Maastrichtian FRA EFP % Meaudre (Isère)	
Pécheux 1984 Orbitoldes sp. % 3 Cempanian-Maastrichtian MEX CFP % Tudia Gutierrez	
Pécheux 1934 Ortkoldes gp. % 3 Campanian-Maastrichtan MEX CPP % Tudis Gutierrez Pécheux 1934 Ortkoldes gp. % 1 Cathogramian-Maastrichtan MEX CPP % Tudis Gutierrez	
precineax 1964 Orbitolotes gp. 7 % 3 Campanian-Massimilitan MEX CFP % Ludia Guierrez. Pécheax 1984 Orbitolotes gp.cf.media % 3 Campanian-Massimilitan MEX CFP % Ludia Guierrez.	
Pécheux 1984 Orbitoides ap. ct. media % 3 Campanian-Masatrichtian MEX CFP % Tudia Gulierrez. Pécheux 1984 Orbitoides ap. ct. media % 3 Campanian-Masatrichtian MEX CFP % Tudia Gulierrez.	
Pécheux 1984 Orbitoides sp. cf. media % 3 early Paleocene MEX CEP. % Tutla Gutierrez	
Pécheux 1984 Orbitoides media % 3 Campanian-Maastrichtian MEX CFP % Tudia Gutierrez	
Pécheux 1984 Orbitoides media % 3 Campanian-Maastrichtian MEX CFP 7(40,41) Tudta Gutierrez	
Pécheux 1984 Ortholdes media % 3 Campanian-Masstrichtian MEX CFP % Tudts Gutierez	
Pécheux 1994 Ortkoldes gan % Camparian-Massitritian MEX CPP % La Trintaria, P2 Rahaphi 1976 Ortkoldes ofretais n. sp. 56 Camparian IRN AFP 4(1-16) Région de Kermanshah	
ncanagari 1976 Ontotoles distants n.sp. go canaparian international international regional developmentation international international development in the solution of the sol	
Rahagh 1976 Ophiloides concervatus p.sp. 56 Campanian IRN AFP (111 25) Région de Kermanshah	
Renz 1936 Orbitoldes media (d'Archiac) 58 Massistichtan CHE EFP 29(1), 31(1), 32(5) Attemée Renz 1936 Orbitoldes media (d'Archiac) 57 Massistrichtan N.D EFP 29(1), 31(1), 32(5) Attemée Renz 1936 Orbitoldes media (d'Archiac) 57 Massistrichtan N.D EFP 29(1), 31(1), 32(5) Massistricht	
Renz 1936 Orbitoides media (d'Archiac) 31 Maastrichtian FRA EFP % Frankreich (Grenoble, Aquitaine)	
Renz 1396 Orbiolodes media (d'Achiac) 32 Maestinchtan ESP EFP % Spanien Renz 1396 Orbiolodes media (d'Achiac) Maestinchtan ORC EFP % Balkahnabinsel bis nach Kythera und Kret	to Dhadaa
Renz 1396 Orbitoides media (d'Archiac) Maastinchtan ORC EFP % Balkanhabinsbils nach Kythera und Kret Renz 1396 Orbitoides media (d'Archiac) 89 Maastinchtan Z/Y EFP % Depart	ta, niodos
nen 1530 Obtobides media (UArchao) Os mastinitari Lin cin s operin Renz 1336 Orbibides media (UArchao) Mastinichian IND ASP % Indien	
Renz 1936 Orbitoides apiculata Schlumberger 31 Meastrichtian FRA EFP % Frankreich	
Renz 1936 Orbitoides apiculata Schlumberger 35 Maastrichtian ITA EFP % Italien	
Renz 1936 Orbitoides apiculata Schlumberger 36 Maastrichtian GRC EFP % Griechenland, Rhodos	
Renz 1936 Orbitoldes apliculata Schlumberger 69 Maastrichtian ZVP EFP % Cypern	
Renz 1396 Orbitolides and/utab Schlumberer S8 Massfirchtan CHE EFP 30(1,2) Atemnée Renz 1955 Orbitolides palmeri Gravel 10 Massfirchtan VEN CFP 50(1,3) Pass Corev. vest of San Sebastific State	a of Iroque
Renr. 1955 Orbitoldes palmeri Gravell 10 Maastinchtan VEN CFP 6(1-3) Paso Copey, west of San Sebasting, State Richter & Minolakos 1976 Orbitoldes media (d'Achiac) 36 Maastinchtan QRC EFP % Sk olis-Massivy, Peloponaes, Circular-Janes, Circula	s of magaa
nclute a manuality show Unacides in the Unacides in the Unacide in the Source in the S	
Robinson 1974 Orbitoides apiculata % % Maastrichtian % CFP % Caribbean	
Robinson 1974 Orbitoides media % % Campanian % CFP % Caribbean	
Robinson 1974 Orbitoides tissoti % % Campanian % CFP % Caribbean	
Rosales Dominguez et al. 1994 Orbitoldes sp. % 3 late Campanian-Maastrichtian MEX CFP % Rio Suchiapa, SE de Tudia Guidierez	
Rosales Daninguez et al. 1994 Orbitoldes media % 3 ute Campanian-Maastichtian MEX CFP 4% Ric Suchiapa, 55 de Tutalo Cultiferez Rosales Daninguez et al. 1994 Orbitoldes media % 3 ute Campanian-Maastichtian MEX CFP 4(5) Ric Suchiapa, 55 de Tutalo Cultiferez	
Rosales Dominguez et al. 1994 Orbitoldes (cf. tissol) % 3 late Campanian-Maastrichtian MEX (CFP % Rio Suchiapa, 55 de Tutale Cutiferez. Santorio & Ventumin 1988 Orbitoldes so. % 125 Maastrichtian YEM AFP o. 124 Res Sharwarn, P.D.R. of Venten 1	
Dantolo Vintanin 1988 Ontadica go. % 20 madeina tani n. m. Pr. p. 124 neta tani publici di Santo Vintani 1988 Ontadica go. % 35 Madeina tani n. TA EFP p. 125 Giunna 2vell, Adrato Sea	
Sartorio & Venturini 1988 Orbitoides sp. % 34 Maastrichtian ITA EFP p. 125 Termini Imerese, Sicily	
Sartorio & Venturini 1988 Orbitoides sp. % 35 Maastrichtian ITA EFP p. 126 Emilio 5 well, Adriatic Sea	
Sartorio & Venturini 1988 Orbitolides sp. % 25 Maastrichtian YEM AFP p. 127, p. 129 Ras Sharwayn, P.D.R. of Yemen	A1 (6.48) 1.50 1.5 1
Seigle & Ayala-Castanares 1963 Orbitoides tissoti Schlumberger 1 Campaniano CUB CFP 25(1) Camino vecinal Vaguaramas-Tierra Nueva	a-Alava; 3.15 kms. al NE del entronque
Scrigle & Availa-Castrones 1963 Ortholdes aciu/ata brovoj (FBR) 1 late Maedichian CLIB CFP % Coming Ava-Aldescent fing in a Cantone	0, PF0V. LBS VIIIBS
	uera; 1.7 km. al NVV del río Mayor, Prov. Las Villas uera; 1.7 km. al NVV del río Mayor, Prov. Las Villas
	a kms. al WSW del Batey Cienaquita; 3 kms. al N de Algodones. Prov. Las Villas
	is; 400 m. al W del Batey Cienaguita, Prov. Las Villas
Seiglie & Ayala-Castanares 1963 Orbitoides apiculata Schlumb. forma jaegeri Papp & Küpper 1 Maastrichtian CUB CFP % Camino Real Viejo de Yaguaramas-Abreu:	is; 400 m. al VV del Batey Cienaguita. Prov. Las VIIIas
	is; 400 m. al W del Batey Cienaguita. Prov. Las Villas
Seiglie & Ayala-Castanares 1963 Orbliodes cf. tissoti Schlumberger 1 Campanian CUB CFP % Camino Viejo de Rodas-Abreus; 600 m al	N del centro de Abreus, Prov. Las Villas
Seigle & Availe-Castrancers 1953 Orbitoides Massimitation CUB CFP 34(3) Common Serventia-Real Campina a frice A Seigle & Availe-Castrancers 1953 Orbitoides aplcuata brown (Ellis) 1 late Massimitation CUB CFP 34(3) Fride Availe-Castrancers 1953 Orbitoides aplcuata brown Massimitation CUB CFP 34(3) Fride Availe-Castrancers 1953 Orbitoides aplcuata brown Massimitation CUB CFP 34(3) Fride Availe-Castrancers 1953 Fride Availe-Castrancers 1953 </td <td>Asturias; unos 480 m al NE del entronque con el Circuito Sur Prov. Las Villas</td>	Asturias; unos 480 m al NE del entronque con el Circuito Sur Prov. Las Villas
joergie o Ayara-Casta lares 1905 johnicules japiculata browni (jeliis) ji jate maastrichtian iUUD ICFY I % KAII'm NH del entrondue del ramino Serve	entia del Real Campina-finca Asturias con el camino Circulatión del Hato Magdalena;

Papp 1954	%	%	Sandstones	%
Papp 1954	%	%	Sandstones	%
Papp 1954	%	%	Sandstones	*
Papp 1954	76	% ar	Sandstones Sandstones	76
Papp 1954 Papp 1954	20	70	Sandstones	70 %
Papp 1955b	Fig. 1	Pseudorbitoides longispiralis, Siderolites vidali	%	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Papp 1955b	Fig. 1	P seudorbitoides trechmanni, Lepidorbitoides minima, Siderolites vidali	%	%
Papp 1955b	Fig. 1	Lepidorbitoides minima, Siderolites vidali	%	%
Papp 1955b	Fig. 1	Lepidorbitoides minima, Siderolites calcitrapoides	%	%
Papp 1955b Papp 1955b	Fig. 1	P seudorbitoides longispiralis, Siderolites vidali P seudorbitoides trechmanni, Lepidorbitoides minima, Siderolites vidali	36	*
Papp 1955b Papp 1955b	Fig. 1 Fig. 1	P seudorbitoides trechmanni, Lepidorbitoides minima, Sideroites vidail	76	76
Papp 1955b	Fig.1	Pseudorbitoides trechmanni, Lepidorbitoides minima, Siderolites vidali		96
Papp 1955b	Fig. 1	Lepidorbitoides minima, Siderolites vidali	96	%
Papp 1955b	Fig. 1	Lepidorbitoides minima, Siderolites calcitrapoides	96	%
Papp 1955b	Fig. 1	Lepidorbitoides minima, Siderolites calcitrapoides	%	%
Papp 1955b	Fig.1	Lepidorbitoides minima, Siderolites calcitrapoides	%	%
Papp 1955c	%	%	%	%
Papp 1955c Papp 1955c	%	%	2 I I I I I I I I I I I I I I I I I I I	% *
Papp 1955c	20	96	10	20
Papp 1955c	~ ~	%	~	
Papp 1955c		96	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Papp 1956a	p.137	%	96	%
Papp 1956a	p.137 p.137 p.137	%	%	%
Papp 1956a	p.137	%	%	%
Papp 1956a	p.137	%	%	%
Papp 1956a	p.137	<u>%</u>	%	%
Papp & Küpper 1953a Papp & Küpper 1953a	% %	% ac	%o oc	76
Papp & Kupper 1953a	~	00 02	20 92	20 92
Papp & Küpper 1953a	%	%	www.	%
Papp & Küpper 1953a	%	%	96	%
Papp & Küpper 1953a	%	96	96	%
Papp & Küpper 1953a	%	%	%	%
Papp & Küpper 1953b	%	%	96	%
Papp & Küpper 1953b	%	%	%	%
Papp & Küpper 1953b Papp & Küpper 1953b	76	76 97	76	*
Papp & Küpper 1953b	20	20	700	20
Paquier 1904	%	%		%
Paquier 1904 Pécheux 1984	p.13	Orbitocyclina, Asterorbis, Sulcoperculina, P seudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
Pécheux 1984	p.13	Orbitocyclina, Asterorbis, Sulcoperculina, P seudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
Pécheux 1984	p.13	Orbitocyclina, Sulcoperculina, ?Kathina, P seudorbitoides	calcaires gréseux, s'y intercalent des niveaux marneux	%
Pécheux 1984	p.13	Orbitocyclina, Sulcoperculina, ?Kathina, P seudorbitoides	calcaires gréseux, s'y intercal ent des niveaux marneux	%
Pécheux 1984	p.13 p.13 p.13 p.13 p.13 p.13 p.13 p.13	Orbitocydina, Sulcoperculina, ?Kathina, P seudorbitoides	calcaires gréseux, s'y intercalent des niveaux marneux	%
Pécheux 1984 Récheux 1984	p.13	Orbitocyclina, Sulcoperculina, ?Kathina, P seudorbitoides	calcaires gréseux, s'y intercalent des niveaux marneux condomérats à élements de socie	% foramini fèrea, cont remaniési.
Pécheux 1984	p.13	Asterorbis, Sulcoperculina, Chubbina	congromentats à elements de socie mannes gréseuses et de calcaires micritiques	Toramini teres continentes-
Pécheux 1904	p.15	Asterorbis, Orbitocyclina, Vaughanina, Sulcoperculina, Chubbira	marnes greseuses er de calcares michtigues	20
Pécheux 1984 Pécheux 1984	p.13	Asterorbis, Orbitocyclina, Vaughanina, Sulcoperculina, Chubbina Asterorbis, Orbitocyclina, Vaughanina, Sulcoperculina, Chubbina	manes gréseuses et de calcaires micritiques manes gréseuses et de calcaires micritiques	76
Pécheux 1984	p.13 p.13 p.13	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes gréseuses et de calcaires micritiques	76 %
Pécheux 1984 Pécheux 1984 Rahaghi 1976	p.13	Asterotis, Orbitocyclina, Vaughanina, Sulcoperculina, Chubbira Asterotis, Orbitocyclina, Vaughanina, Sulcoperculina, Chubbira Chubbina, Praealveolina, Sulcoperculina, 7Kathina %	marines gréseuses et de carlaines inicitiques marines gréseuses et de carlaines michtiques brèche massive, évoluant progressivement vers un calcaire à lithodasts et biodasts fin	76 76 76 76
Pécheux 1984 <u>Pécheux 1984</u> Rahaghi 1976 Rahaghi 1976	p.13 p.13	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes gréseuses et de calcaires micritiques	% % % %
Pécheux 1984 P <u>écheux 1984</u> Rahaghi 1976 Rahaghi 1976 Rahaghi 1976	p.13 p.13 % %	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes préseuses et de calcaires micrititgues brèche massive, évoluant progressivement vers un calcaire à lithodasts et biodiasts fin % % %	% % skill Meric & Conth (1991): Omphalocyclus und nick Ortikoldes
Pécheux 1984 Pécheux 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936	p.13 p.13 % %	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes gréseuses et de calcaires minitiques brèche massive, évoluant progressivement vers un calcaire à lithodasts et biodasts fin % % gebe und durkelgraue Kalke	megasphärisch; Syn.: Orbitolites media, Orbitoides faujasii
Pécheux 1984 Pécheux 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936 Renz 1936	p.13 p.13 % % p. 545 p. 545	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes gréseuses et de calcaires micrititues brêche massive, évaluant progressivement vers un calcaire à lithodasts et biodiasts fin brêche massive, évaluant progressivement vers un calcaire à lithodasts et biodiasts fin % % gebe und dunkelgraue Kalke gebe und dunkelgraue Kalke	megasphärisch; Syn.: Orbitolites media, Orbitoides faujasii megasphärisch; Syn.: Orbitolites media, Orbitoides faujasii
Pécheux 1984 <u>Pécheux 1984</u> Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936 Renz 1936 Renz 1936	p.13 p.13 % % p. 545 p. 545	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes gréseuses et de calcaires minitiques brèche massive, évoluant progressivement vers un calcaire à lithodasts et biodasts fn % % gebe und durkelgraue Kalke gebe und durkelgraue Kalke gebe und durkelgraue Kalke	megasphärisch; Syn : Orbitolites media, Orbitolides faujasi megasphärisch; Syn : Orbitolites media, Orbitolides faujasi megasphärisch; Syn : Orbitolites media, Orbitolides faujasi
Pécheux 1984 Pécheux 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936 Renz 1936	p.13 p.13 % % p. 545 p. 545	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes gréseuses et de calcaires micritiques brèche massive, éviduant progressivement vers un calcaire à lithodasts et biodasts fn % % gebe und dunkelgraue Kalke gebe und dunkelgraue Kalke gebe und dunkelgraue Kalke gebe und dunkelgraue Kalke	megasphärisch; Syn. : Orbitolites media, Orbitoles fusiasi megasphärisch; Syn. : Orbitolites media, Orbitoles fusiasi megasphärisch; Syn. : Orbitolites media, Orbitoles fusiasi
Pécheux 1984 Pécheux 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Rahaghi 1975 Renz 1936 Renz 1936 Renz 1936 Renz 1936 Renz 1936	p.13 p.13 % % p. 545 p. 545 p. 545 p. 545 p. 545 p. 545 p. 545 p. 545	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes gréseuses et de calcaires minitiques brèche massive, évoluent progressivement vers un calcaire à lithodasts et biodasts in brèche massive, évoluent progressivement vers un calcaire à lithodasts et biodasts in gebe und dank égrave. Kalks	megasphärisch; Syn Orbitolites media, Orbitoles fuujasi megasphärisch; Syn Orbitolites media, Orbitoles fuujasi
Pécheur 1984 Pécheur 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936 Renz 1936 Renz 1936 Renz 1936 Renz 1936 Renz 1936 Renz 1936	p.13 p.13 % % % p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	Imarnes gréseuses et de calcaires minitiques brèche massive, évoluant arcorpessivement vers un calcaire à lithodasts et biodasts fn % gebe und dunkelgraue Kalke	megasphärisch; Syn.: Orbitolites media, Orbitoles faujasi megasphärisch; Syn.: Orbitolites media, Orbitolides faujasi
Pécheu: 1984 Pécheu: 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renzi 1936 Renzi 1936 Renzi 1936 Renzi 1938 Renzi 1938 Renzi 1938 Renzi 1938 Renzi 1938	p.13 p.13 % % p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes gréseuses et de calcaires minitiques brèche massive, évoluent progressivement vers un calcaire à lithodasts et blodasts in brèche massive, évoluent progressivement vers un calcaire à lithodasts et blodasts in gebe und dank égraue Kalke	megasphärisch; Syn.: Orbitoites media, Orbitoides fuujasi megasphärisch; Syn.: Orbitoites media, Orbitoides fuujasi
Pécheux 1984 Pécheux 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936 Renz 1936 Renz 1936 Renz 1936 Renz 1936 Renz 1936 Renz 1936 Renz 1936	p.13 p.13 % p.545 p	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	Imarnes gréseuses et de calcaires minitiques brèche massive, évoluant arcorressivement vers un calcaire à lithodasts et biodasts fn % gebe und dunkelgraue Kalke	megasphärisch; Syn.: Orbitolites media, Orbitoldes faujasi megasphärisch; Syn.: Orbitolites media, Orbitoldes faujasi DM bis 20 mm
Pécheu: 1984 Pécheu: 1984 Rahaghi 1975 Rahaghi 1975 Rahaghi 1975 Rahaghi 1975 Renzi 1936 Renzi 1936 Renzi 1936 Renzi 1936 Renzi 1938 Renzi 1938 Renzi 1938 Renzi 1938 Renzi 1938	p.13 p.13 % p.545 p.545 p.545 p.545 p.645 p.645 p.645 p.645 p.645 p.645 p.645	Asterorbis, Orbitocydina, Vaughanina, Sulcoperculina, Chubbira	marnes gréseuses et de calcaires minitiques brèche massive, évoluent arcognessivement vers un calcaire à lithodasts et blodasts in brèche massive, évoluent arcognessivement vers un calcaire à lithodasts et blodasts in gebe und dankelgraue Kalke	megasphärisch; Syn. : Orbitolites media, Orbitoldes fuujasi megasphärisch; Syn. : Orbitolites media, Orbitoldes fuujasi DM bis 20 mm
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Pécheu: 1984 Pécheu: 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936 Renz 1938 Renz 1938 Renz 1938 Renz 1938 Renz 194 Renz	p.13 p.13 % p.545 p.545 p.545 p.545 p.645 p.645 p.645 p.645 p.545 p	Asterotis, Orbitovdina, Vaughanina, Sulooperuulina, Chubbira Chubbina, Praeatveolina, Sulooperuulina, Risathina S S S S Sulooperuulina, Vaughanina S Sulooperuulina, Vaughanina S Sulooperuulina, Vaughanina Sulooperuulina, Vaughanina Sulooperuulina, Asterotis, Addinorbitolas, Vaughanina Sulooperuulina, Saterotis, Saterotis, Addinorbitolas, Vaughanina Sulooperulina, Saterotis, Addinorbitolas, Vaughanina Sulooperulina, Saterotis, Addinorbitolas, Vaughanina Sulooperulina, Saterotis, Saterotis, Addinorbitolas, Vaughanina Sulooperulina, Saterotis, Saterotis, Addinorbitolas, Vaughanina Sulooperulina, Saterotis, Saterotis	marres gréseuses et de calcaires minitiques brèche massive, évoluent arcorassivement vers un calcaire à lithodasts et blodasts in brèche massive, évoluent arcorassivement vers un calcaire à lithodasts et blodasts in gebe und dankelgraue Kalke gebe und dankelgraue	megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi Mit bis 20 mm DM bis 20 mm OM bis 20 mm OM bis 20 mm Signature S
Pécheu: 1984 Pécheu: 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936 Renz 1938 Renz 194 Ren	p.13 p.13 % p.645 p.645 p.645 p.645 p.645 p.545 p	Asterotis, Orbitocydina, Yaughanina, Sukoperculina, Chubbira Chubbina, Praealveolina, Sukoperculina, Yitathia % % % % % % % % % % % % % % % % % % %	marres gréseuses et de calcaires minitiques brèche massive, évoluent progressivement vers un calcaire à lithodasts et blodasts in brèche massive, évoluent progressivement vers un calcaire à lithodasts et blodasts in gebe und dank legraue Kalke gebe und d	megasphärisch; Syn. Orbitolites media, Orbitoldes fuujasi megasphärisch; Syn. Orbitolites media, Orbitoldes fuujasi DM bis 20 mm DM bis 20 mm DM bis 20 mm Syn. Syn. Syn. Syn. Syn. Syn. Syn. Syn.
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Péchesu: 1984 Péchesu: 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Remz 1936 Remz 1938 Remz 1938 Remz 194 Reales Deminguez et al. 1934 Reales Deminguez et al. 19	p.13 p.13 % p.645 p.645 p.645 p.645 p.645 p.645 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.645 p.545 p.545 p.545 p.545 p.545 p.645 p.545 p.545 p.545 p.545 p.645 p.545 p.645 p	Asterotis, Orbitocydina, Yaughanina, Sukoperculina, Chubbira Chubbina, Praealveolina, Sukoperculina, Risathia % % % % % % % % % % % % % % % % % % %	marres gréseuses et de calcaires minitiques brèche massive, évoluent progressivement vers un calcaire à ithodasts et blodasts in brèche massive, évoluent progressivement vers un calcaire à ithodasts et blodasts in gebe und dank égraue Kalke gebe und dank égraue Ka	megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi Mit bis 20 mm DM bis 20 mm OM bis 20 mm OM bis 20 mm Signature S
Pécheu: 1984 Pécheu: 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936 Renz 1938 Renz 1958 Renz 195	p.13 p.13 % % p.545	Asterotis, Orbiocydina, Vaughanina, Sulooperuulina, Chubbira Chubbina, Praealveolina, Sulooperuulina, Ristahina S S S S S Sulooperuulina, Vaughanina S Sulooperuulina, Vaughanina S Sulooperuulina, Vaughanina S Sulooperuulina, Asterotis, Attinorbiodes, Vaughanina Sulooperuulina, Asterotis, Attinorbiodes, Vaughanina Sulooperulina, Asterotis, Sulooperulina Sulooperulina, Sulooperulina	marnes gréseuses et de calcaires micritiques brèche massive, évoluent arcorares sivement vers un calcaire à lithodasts et blodasts fn % gebe und dankelgraue Kalke gebe und dankelgraue	megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi Mit bis 20 mm DM bis 20 mm OM bis 20 mm OM bis 20 mm Signature S
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Pécheu: 1984 Pécheu: 1984 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Rahaghi 1976 Renz 1936 Renz 1938 Renz 1955 Richter Mariolakos 1976 Richter 1974 Robinson 2074 Robinson 1988 Sartono & Vertunni 1988 Sartono & Vertuni 1988 Sartono &	p.13 p.13 % p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.645 p	Asteronis, Onblocydine, Vaughanine, Sulooperuuline, Chubbira Chubbine, Preasiveoline, Sulcoperuuline, 7Kathina % % % % % % % % % % % % %	marnes gréseuses et de calcaires micritiques brèche massive, évoluent arcoraessivement vers un calcaire à ithodasts et blodasts fn % gebe und dankelgraue Kalke gebe und dankelgraue Ka	megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi Mit bis 20 mm DM bis 20 mm OM bis 20 mm OM bis 20 mm Signature S
Pécheu: 1984 Pécheu: 1984 Rahagh 1976 Rahagh 1976 Rahagh 1976 Rahagh 1976 Rahagh 1976 Ren: 1386 Ren: 1388 Ren: 138 Ren: 1388 Ren: 1388 Ren: 1388 R	p.13 p.13 % p.645 p.645 p.645 p.645 p.645 p.645 p.645 p.545 p.545 p.545 p.545 p.545 p.545 p.545 p.645 p.545 p.545 p.645 p.545 p.545 p.645 p.545 p.645 p.545 p.645 p.645 p.545 p.645 p.645 p.545 p.645 p.545 p.645 p.645 p.545 p.645 p	Asterotis, Orbitocydina, Vaughanina, Sukoperculina, Chubbira Chubbina, Praealveolina, Sukoperculina, Risathia % % % % % % % % % % % % % % % % % % %	marres gréseuses et de calcaires minitiques brèche massive, évoluent progressivement vers un calcaire à ithodasts et blodasts in brèche massive, évoluent progressivement vers un calcaire à ithodasts et blodasts in gebe und dank legraue Kalke gebe und dank legrave kalke gebe und dank legraue Kalke gebe und dan	megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi megasphärisch, Syn. Orbitolites media, Orbitoldes fuujasi Mit bis 20 mm DM bis 20 mm OM bis 20 mm OM bis 20 mm Signature S

1	1	1	1	i i	1	1	1	1 km de los Ferrocarriles Occidentales de Cuba; 4 km SE del Central Perseverancia
Seiglie & Ayala-Castanares 1963	Orbitoides	villasensis	nov. sp. 1	Maastrichtian	сив	CFP	31(1,2); 32(1-3); 33(3); 34(1,2)	480 m NE del entronque del camino Senertía del Real Campina-finca Asturias con el camino Circulatión del Hato Magdalena;
								1 km de los Ferrocarriles Occidentales de Cuba; 4 km SE del Central Perseverancia
Seiglie & Ayala-Castanares 1963	Orbitoides	apiculata browni	(Ellis) 1	late Maastrichtian	CUB	CFP	%	Camino interior en finca Asturias a través del potrero; 450 m NE del Batey al S de Asturias, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	villasensis	sp. nov. 1	Maastrichtian	CUB	CFP	%	Camino interior en finca Asturias a través del potrero; 450 m NE del Batey al S de Asturias, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	tissoti	Schlumberger 1	Campanian	CUB	CFP	%	Pozo Ranchuelo A, núcleo de 1152 a 1153 pies de profundidad
Seiglie & Ayala-Castanares 1963	Orbitoides	apiculata browni	(Ellis)	late Maastrichtian	CUB	CFP CFP	29(1)	Extremo NW de la loma Guayos, situada a 2.8 km al SE del pueblo de Guayos, Prov. Las Villas
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963	Orbitoides Orbitoides	apiculata Schlumb. forma jaegeri villasensis	Papp & Küpper 1 sp. nov. 1	Maastrichtian Maastrichtian	CUB	CEP	30(1-2) 33(2)	Extremo NW de la loma Guayos, situada a 2.8 km al SE del pueblo de Guayos, Prov. Las Villas Extremo NW de la loma Guayos, situada a 2.8 km al SE del pueblo de Guayos, Prov. Las Villas
Seiglie & Avala-Castanares 1963	Orbitoides	media	(d'Archiac) 1	late Campanian to Maastrichtian	CUB	CEP	33(2) %	Anemo Al SSW de Chirino Prov Matanzas
Seiglie & Ayala-Castanares 1963	Orbitoides	tissoti	Schlumberger 1	Campanian	CUB	CEP	26(3,4)	5 km al S del trébu de la Via Monumental sobre la Via Blanca, Proy. La Habana
Seiglie & Ayala-Castanares 1963	Orbitoides	cf tissoti	Schlumberger 1	Campanian	CUB	CFP	*	Camino de Cabiciouán a Neiva, aproximadamente 1.6 km antes de Neiva, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	apiculata browni	(Eiis) 1	late Maastrichtian	CUB	CFP	%	Cantera San Juan Bosco en el antiguo camino de Sti. Spiritus-Zaza, a 2.75 km
		1.						al ENE del entronque de la Carretera Central con el Central Tuinucú, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	tissoti	Schlumberger 1	Campanian	CUB	CFP	%	Camino Fomento a Pedrero, 6.3 km de Fomento, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	tissoti	Schlumberger 1	Campanian	CUB	CFP	%	Camino Fomento a Pedrero, 6.3 km de Fomento, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	tissoti	Schlumberger 1	Campanian	%	%	25(1)	%
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963	Orbitoides Orbitoides	tissoti tissoti	Schlumberger 1 Schlumberger 1	Campanian Campanian	CUB	CFP	%	Camino Fomento a Pedrero, 6.3 km de Fomento, Prov. Las Villas
	Orbitoides	tissoti	Schlumberger 1			CEP 70	26(1)	70
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963	Orbitoides	tissoti	Schlumberger 1	Campanian Campanian	CUB	CEP	26(2); 27(1)	6.2 km de Fomento en el camino a Pedrero 6.2 km de Fomento en el camino a Pedrero; afloramiento al E del camino, antes de llegar a una casa, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	media	(đArchiac) 1	late Campanian to Maastrichtian	CUB	CEP	27(2,3)	Camino de Fomento en el camino a Federo, anoramiento a El der camino, antes de regar a dha casa, Prov. Las vinas Camino de Fomento a Sta. Lucía, 200 m antes de llegar a La Redonda, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	media	(đArchiac) 1	late Campanian to Maastrichtian	CUB	CEP	21(2,0)	Publicado de Quemadito, en el camino de Forento a Stat. Lucía, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	apiculata provini	(Ellis) 1	late Maastrichtian	CUB	CFP	%	Cantera en un mogito de caliza unos 2.5 km al SVV de Guayos, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Orbitoides	apiculata Schlumb. forma jaegeri	Papp & Küpper 1	Maastrichtian	CUB	CFP	%	Cantera en un mogote de caliza unos 2.5 km al SW de Guayos, Prov. Las VIIIas
Seiglie & Ayala-Castanares 1963	Orbitoides	tissoti	Schlumberger 1	Campanian	CUB	CFP	%	Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana
Seiglie & Ayala-Castanares 1963	Orbitoides	apiculata browni	(Ellis)	% late Maastrichtian	%	%	28(1-5)	%
Séronie-Vivien 1972	Orbitoides	media	% 31	Maastrichtian	FRA	EFP	%	Aubeterre
Séronie-Vivien 1972	Orbitoides	media	% 31	Maastrichtian	FRA	EFP	8	Lamérac
Séronie-Vivien 1972 Séronie-Vivien 1972	Orbitoides Orbitoides	media media	% 31	Maestrichtian	FRA FRA	EFP EFP	8	La Guerie
Seronie-Vivien 1972 Séronie-Vivien 1972	Orbitoides Orbitoides	media	* 31	Maastrichtian Maastrichtian	FRA	EFP	×	Barret La Maison Neuve
Seronie-Vivien 1972 Séronie-Vivien 1972	Orbitoides	media	76 31	Maastrichtian	FRA	EFP	76	La Malson Neuve
Séronie-Vivien 1972	Orbitoides	media	96 31	Maastrichtian	FRA	EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Plage des Nonnes (Meschers-sur-Gironde)
Séronie-Vivien 1972	Orbitoides	media	96 31	Maastrichtian	FRA	EFP		Noaillac (Saint-Aster)
Séronie-Vivien 1972	Orbitoides	media	% 31	Maastrichtian	FRA	EFP	%	Neuvic
Séronie-Vivien 1972	Orbitoides	media	% 31	Maastrichtian	FRA	EFP	%	coumiac, Route du Dognon
Séronie-Vivien 1972	Orbitoides	media	% 31	Maastrichtian	FRA	EFP	%	Lembras
Séronie-Vivien 1972	Orbitoides	media	% 31	Maastrichtian	FRA	EFP	%	Route de Villereal (Beaumont-du-Périgord
Sirel 1991	Orbitoides	sp.	% 38	late Maastrichtian	TUR	EFP	%	Cide region
Sirel 1995	Orbitoides	tissoti	Schlumberger 38	Campanian	TUR	EFP	2(12-14) 3(9)	Mendenler village, NE Bolu, NW Turkey
Sirel 1996 Sirel 1996	Orbitoides Orbitoides	apiculatus gensasicus	% 38	Maastrichtian Maastrichtian	TUR	EFP EFP	%	Haymana basin, S of Ankara
Sirel 1996	Orbitoides	apiculatus	% 38	Maastrichtian	TUR	EFP	70	Haymana basin, S of Ankara Dündarli area, SW of Kayseri, Central Turkey
Sirel 1996	Orbitoides	apiculatus	% 38	Maastrichtian	TUR	EFP	70 92	Dündari area SV of Kayseri, Central Turkey
Sirel 1996	Orbitoides	apiculatus	% 38	Maastrichtian	TUR	FFP		Giliköytown, S of Ordu, Northern Turkey
Sirel 1996	Orbitoides	apiculatus	% 38	Maastrichtian	TUR	EFP	%	Pevamli hill, 8 km north of Dündarli town, SVV of Kavseri
Sirel 1996	Orbitoides	apiculatus	% 38	Maastrichtian	TUR	EFP	%	Caldag anticline, Ahirlikuyu village, 4 km vest of Haymana town, S of Ankara
Sirel 1996	Orbitoides	gensasicus	% 38	Maastrichtian	TUR	EFP	%	Caldag anticline, Ahirlikuyu village, 4 km west of Haymana town, S of Ankara
Sirel 1996	Orbitoides	sp.	% 38	Maastrichtian	TUR	EFP	%	Ovacuma village, Ulustown, NE of Zonguldak, Northern Turkey
Sun & Zhang 1983	Orbitoides	tissoti	Schlumberger 48	Campanian	CHN	ASP	%	Tethys-Himalayan southern sedimentary bel
Sun & Zhang 1983	Orbitoides	media	(d'Archiac) 48	Maastrichtian	CHN	ASP	%	Tethys-Himalayan southern sedimentary bel
van Gorsel 1973a van Hinte 1968	Orbitoides Orbitoides	media douvillei	(d'Archiac) 31 (Silvestri) 31	late Campanian late Santonian?	FRA	EFP FFP	diverse %	SE of Aubeterre Belvès, SW France
Wannier 1983	Orbitoides	tissoti	(Silvestri) 31	Campanian	FSP	FFD	uiverse %	Santa Magdalena (Pobla de Segur), Catalogne
Wannier 1983	Orbitoides	media	96 31	Campanian	FRA	FFP		falaises de la Conciencia (in des Normes à Meschers (Royan)
Wannier 1983	Orbitoides	tissoti	% 58	Campanian	CHE	EFP	%	Niesengriel
Visser 1951	Orbitoides	apiculata	Schlumberger 31	Maastrichtian	FRA	EFP	%	Maurens, France
Visser 1951	Orbitoides	apiculata	Schlumberger 58	late Cretaceous	CHE	EFP	%	Helvetic nappes, Bielersee, Switzerland
Visser 1951	Orbitoides	apiculata	Schlumberger 36	Maastrichtian	GRC	EFP	%	Thessalische Pindos, Leukas, Greece
Visser 1951	Orbitoides	apiculata	Schlumberger 59	Maastrichtian	AUT	EFP	%	Wienerwaldflysch, Austria
Visser 1951	Orbitoides	apiculata	Schlumberger 57	Hervian and Maastrichtian (Md)	NLD	EFP	%	South-Limburg, Holland
Visser 1951 Visser 1951	Orbitoides Orbitoides	apiculata apiculata	Schlumberger 57 (Schlumberger) 57	Maastrichtian Maastrichtian	NLD NLD	EFP EFP	9(4) 11(1)	Burgerwacht-quarry, St. Pietersberg Burgerwacht-quarry, St. Pietersberg
Visser 1951 Visser 1951	Orbitoides	apiculata	(Schlumberger) 57 (Schlumberger) 57	Maastrichtian	NLD	EFP	11(3)	Burgerwacht-quarry, St. Pietersberg Burgerwacht-quarry, St. Pietersberg
Visser 1951 Visser 1951	Orbitoides	apiculata brinkae	Schlumberger 57 Schlumberger 57 (Schlumberger) 57 (Schlumberger) 57 nov. sp. 57	Maastrichtian Maastrichtian	NLD	EFP	9(5)	burgerwacht-quarry, st. Pietersberg under the fortress of Sint Pieter on the St. Pietersberg
Visser 1951	Orbitoides	brinkae	nov. sp. 57	Maastrichtian	NLD	EFP	9(5) 11(2)	under the fortress of Sint Pieter on the St. Pietersberg
Visser 1951	Orbitoides	brinkae	nov. sp. 57	Maastrichtian	NLD	EFP	11(5)	ander die lades of die falle of die St. Pietersberg Burgerwacht-quary, St. Pietersberg
Weiss 1993	Orbitoides	tissoti	% 46	early Maastrichtian	PAK	ASP	8(1-6); 9(1,3,5)	Rakhi Nala section, Sulaiman Range, Northern Pakistan
Weiss 1993	Orbitoides	aff. media	% 46	early Maastrichtian	PAK	ASP	9(1)	Rakhi Nala section, Sulaiman Range, Northern Pakistan
Weiss 1993	Orbitoides	media	% 46	early Late Maastrichtian	PAK	ASP	%	Murrey Brewery Gorge section, Sulaiman Range, Northern Pakistan
Weiss 1993	Orbitoides	apiculata	% 46	early Late Maastrichtian	PAK	ASP	%	Murrey Brewery Gorge section, Sulaiman Range, Northern Pakistan
Wen 1987	Orbitoides	media	(d'Archiac) 48	Maastrichtian	CHN	ASP	%	SE of Gamba village to Zongshan and Jidula hill, Mt. Qomolangma Region
Wen 1987	Orbitoides	apiculata	Schlumberger 48	Maastrichtian	CHN	ASP	» ~	SE of Gamba village to Zongshan and Jidula hill, Mt. Qomolangma Region
Wen 1987 Wen 1987	Orbitoides Orbitoides	sp. media	% 48 (d'Archiac) 48	Maastrichtian Maastrichtian	CHN CHN	ASP ASP	* *	SE of Gamba village to Zongshan and Jidula hill, Mt. Gomolangma Region
Wen 1987 Wen 1987	Orbitoides Orbitoides	apiculata	(d'Archiac) 48 Schlumberger 48	Maastrichtian Maastrichtian	CHN	ASP	20	SE of Gamba village to Zongshan and Jidula hill, Mt. Qomolangma Region
Wen 1967 Wen 1987	Orbitoides	media	(d'Archiac) 48	Maastrichtian	CHN	ASP	70	SE of Gamba village to Zongshan and Jidula hill, Mt. Qomolangma Region SE of Gamba village to Zongshan and Jidula hill, Mt. Qomolangma Region
Wen 1987	Orbitoides	tissoti	Schlumberger 48	Campanian	CHN	ASP	1 %	SE of Gamba village to Zongshan and Jolua hill, Mt. Gomolangma Region
Wen 1987	Orbitoides	media	(d'Archiac) 48	Maastrichtian	CHN	ASP		se or Ganitae vinage or zungstan and obtaen mit, wit, sonnorangina region 4 km E of Kamba vinage
Willems et al. 1996	Orbitoides	media	% 48	Maastrichtian	CHN	ASP	%	ca. 100 m north of Gamba, Tingri area, Tibet
Willem set al. 1996	Orbitoides	media	% 48	Middle Maastrichtian	CHN	ASP	%	Profile L, Section Tingri, Tibet
Zambetakis-Lekkas 1988	Orbitoides	tissoti	% 36	late Campanian-early Maastrichtian	GRC	EFP	%	Coupe de Myticas-Angelokastro
Zambetakis-Lekkas 1988	Orbitoides	tissoti	% 36	late Campanian-early Maastrichtian	GRC	EFP	%	Coupe de Kamenitsa
Zambetakis-Lekkas 1988	Orbitoides	media	1 % 36	late Campanian-early Maastrichtian	GRC	EFP	1 %	Coupe de Kamenitsa

Omphalocyclus

Publication	Genus	Species	Reference	Loc	Stratigraphic Age	Country	Faunal Province	Illustration	Site
	Omphalocyclus	macropora	Lamarck	23	late Campanian-Maastrichtian	OMN	AFP	fig.10,7,8; sample 2	northern Oman Mountains
	Omphalocyclus	macropora	Lamarck	23	late Campanian-Maastrichtian	OMN	AFP	%	northern Oman Mountains
	Omphalocyclus	macroporus	(Lamarck)	29	Campanian	MDG	AFP	3(11-13)	Berivotra, Mahajanga Basin, Madagascar
Al-Omari & Sadek 1976	Omphalocyclus	macropora	Lamarck	56	Maastrichtian	IRN	EFP	%	Iran
Al-Omari & Sadek 1976	Omphalocyclus	macropora	Lamarck	23	Maastrichtian	OMN	AFP	8	Oman

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Seiglie & Ayala-Castanares 1963	Page 7		Omphalocyclus, Asterorbis, Sulcoperculina		Calizas duras, recristalizadas en parte, color crema rosáo	eo, con macroforaminiferos	-	6
Seiglie & Ayala-Castanares 1963	Page 8		Lepidorbitoides, Asterorbis, Sulcoperculina		Calizas duras, recristalizadas color blanco amarillento			6
	Page 8		Lepidorbitoides, Asterorbis, Sulcoperculina Vaughanina		Calizas duras, recristalizadas color blanco amarillento			6
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963	Page 8 Page 10		Asterorbis, Vaughanina, Sulcoperculina		Caliza margosa, dura, uniforme, densa Caliza arrecifal, blanca, con macroforaminí feros			6
	Page 10		Asterorbis, Vaughanina, Sucoperculina		Caliza arrecifal, blanca, con macroforaminiferos			6
Seiglie & Ayala-Castanares 1963	Page 10		Asteronors, vaugnanina, Sucopercuina	96	caliza arrechal, biarica, con macroioraminieros	96	nicht in Liste der Lokalität	•
Seiglie & Ayala-Castanares 1963	Page 10		Vaughanina, Sulcoperculina	70	Canto de caliza dura, redepositada en un conglomerado d	/o tel Eloceno o Maastrichtiano		6
	Page 10		"Historbioides", Sulcoperculina		Canto en las calciruditas de la formación Penalver, "lime g			
	Page 11		Sulcorbitoides		Capas finas de calizas, interestratificadas con lutitas	gi av ol		6
Seiglie & Ayala-Castanares 1963	Page 11		Asterorbis, Vaughanina, Sulcoperculina		Caliza blanca a blanco-grisácea, masiva, dura			6
								-
Seiglie & Ayala-Castanares 1963	Page 12		Vaughanina, Sulcoperculina, Miliolidae		Caliza masiva, color rosáceo, con numerosos foraminífero	20		6
Seiglie & Ayala-Castanares 1963	Page 13		Vaughanina, Sulcoperculina		Caliza blanca, densa, masiya		· · · · · · · · · · · · · · · · · · ·	6
Seiglie & Ayala-Castanares 1963		%		%		%	keine Angaben zu Lokalität	
Seiglie & Ayala-Castanares 1963	Page 13		Sulcoperculina, Miliolidae		Caliza psseudo-oolítica			6
Seiglie & Ayala-Castanares 1963		%		%		%	keine Angaben zu Lokalität	
Seiglie & Ayala-Castanares 1963	Page 13		Sulcoperculina		Caliza detrítica, masiva, con abundantes foraminíferos gra			6
Seiglie & Ayala-Castanares 1963	Page 13		Monolepidorbis, Sulcoperculina, Miliolidae		Caliza amarillo-ocre, dura, masiva con abundante fauna d		-	6
Seiglie & Ayala-Castanares 1963	Page 14		Sulcoperculina		Caliza dura, masiva, color crema-amarillento a carmelita g		-	6
Seiglie & Ayala-Castanares 1963	Page 14		Pseudorbitoides, Ayalaina		Conglomerado calcáreo gris, con abundantes foraminífero	os grandes		6
Seiglie & Ayala-Castanares 1963	Page 14		Asterorbis, Vaughanina		Caliza masiva, blanca o gris, densa, dura con abundantes	s macroforamini feros		6
Seiglie & Ayala-Castanares 1963	Page 14		Asterorbis, Vaughanina		Caliza masiva, blanca o gris, densa, dura con abundantes			6
Seiglie & Ayala-Castanares 1963	Page 15	~	Omphalocyclus, Lepidorbitoides, Asterorbis, Pseudor	btoides, Vaughanina, Sulcoperculina	Calcirudita a calcarenita, dura, consolidada, color gris clar	0		6
Seiglie & Ayala-Castanares 1963	- 54	%	011		Outputs to the of	%	keine Lokalität angegeben	
Séronie-Vivien 1972	p.54		Siderolites		Calcaire tuffacé		Zone à Orbitoides media et A. monterelensis	
Séronie-Vivien 1972 Séronie-Vivien 1972	p.55 p.56		Dictyopsella, Nummofallotia, Siderolites Nummofallotia, Siderolites		Calcaire jaune, très friable Mames légèrement glauconieuses		Zone à Orbitoides media Zone à Orbitoides media	
Séronia Mitian 19/2	p.56 p.57							
Séronie-Vivien 1972 Séronie-Vivien 1972	p.57 p.58		Nummofallotia, Siderolites Dictyopsella, Nummofallotia, Siderolites		Calcaire mameux blanc jaunatre Mame calcaire jaune blanchatre		Zone à Orbitoides media Zone à Orbitoides media	
Seronie-Vivien 19/2 Séronie-Vivien 1972	p.58 p.69		Nummofallotia, Siderolites			95	Zone à Orbitoides media Zone à Orbitoides media et A. monterelensis	
Séronie-Vivien 1972 Séronie-Vivien 1972	p.69 p.72		Dictyopsella, Nummofallotia, Siderolites		Calcaire tuffacé jaune clair	70	Zone à Orbitoides media et A. montereiensis Zone à Orbitoides media	
Séronie-Vivien 1972 Séronie-Vivien 1972	p.72 p.93		Siderolites		Calcaire tuttace jaune clair Calcaire biod.grav. Glauc		auto a Official de la companya de la	<u>د</u>
Séronie-Vivien 1972	p.94		Dictyopsella, Nummofallotia, Siderolite:		Calcaire crayeux, blanc, lité, niveaux de sile		Zone à Orbitoides media	•
Séronie-Vivien 1972	p.106		bicryopaeira, indiminoraliotra, Siderontes	96	Calcaire gréseux, jaune, en plaquettes		2016 a Orbitolides media	6
Séronie-Vivien 1972	p.107			%	Calcaire noduleux		Zone à Orbitoides media	•
Séronie-Vivien 1972	p.126		Nummofallotia	70	Calcaire bioclastique et graveleu:		Zone à Orbitoides media	
Sirel 1991	fig.1		Siderolites, Sirtina, Omphalocyclus, Hellenocyclina, L	epidorbito des Navarella	light gray limestone, green and dark red sitstone, tufft inte	ercalation	25/10 2 01/2010/01/02/01	6
Sirel 1995		%		%	sandy limestone			6
Sirel 1996	fia.1		Loftusia, Siderolites, Hellenocydina, Laffitteina, Sirtin	8	Sandstone, sandy limestone, argillaceous limestone		9	
	fig.1		Loftusia, Siderolites, Hellenocyclina, Laffitteina, Sirtin		Sandstone, sandy limestone, argillaceous limestone		9	6
Sirel 1996	fig.1		Omphalocyclus, Siderolites, Hellenocyclina, Loftusia,	Laffitteina	Sandy limestone, Marl, argillaceous limestone			6
	fig.1		Omphalocyclus, Siderolites, Hellenocyclina, Loftusia,	Laffitteina	Sandy limestone, Marl, argillaceous limestone			6
Sirel 1996	fig.1		Siderolites, Hellenocydina, Omphalocyclus		limestones			6
Sirel 1996	fig.1		Loftusia, Siderolites, Hellenocyclina, Laffitteina, Omp	halocyclus	limestone; shallow water		9	6
Sirel 1996	fig.1		Omphalocyclus, Siderolites, Hellenocyclina, Laffittein	a, Sirtina	limestone; shallow water		9	6
Sirel 1996	fig.1		Omphalocyclus, Siderolites, Hellenocyclina, Laffittein	a, Sirtina	limestone; shallow water		9	6
Sirel 1996	fig.1		Omphalocyclus		limestone; shallow vater		9	6
Sun & Zhang 1983	fig. 1			%	limestone with calcareous shale		9	6
Sun & Zhang 1983	fig. 1		Omphalocyclus macroporus		shallow-water limestone; shallow-water		9	, ,
van Gorsel 1973a	figs. 1,2		Lepidorbitoides, Orbitoides, Nummofallotia			%	· · · · · · · · · · · · · · · · · · ·	6
van Hinte 1968		%		%		%	type species of Schlumbergeria	,
Wannier 1983		%		% %		76		, ,
Wannier 1983		%		%		%		, ,
Wannier 1983 Visser 1951	p.295	70	Helicorbitoi des longispiralis	9/		70 92	-	0 (
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Visser 1951 Visser 1951	p.295 p.295			70 92		70 92		°.
Visser 1951	p.295			9 <u>6</u>		96 96		
Visser 1951	p.295			9 <u>6</u>		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		č I
	IN.23J			%	verylight-yellow fossil-waste-bed	~		,
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Omphalocyclus

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Abdelghany 2003 Abdelghany 2003			limestone, pink limestone	%
Abdelghany 2003	Fig. 1	Orbitoides, Lepidorbitoides	limestone, pink limestone	%
Abramovich et al. 2002	%	%	upper photic zone	%
Al-Omari & Sadek 1976	%	Siderolites, Orbitoides, Loftusia	%	%
Al-Omari & Sadek 1976	%	Siderolites, Loftusia	%	%

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First Constrained Constrained Constrained Constrained Constrained Constrained Constrained Const						32					38(2)	
	Right 1972	Omphalocyclus	macroporus	(Lainai Ck)	96	63					*1(20)	Catarejos (Siena de Segura) La Nanos La Vinauska dolina at sa bordura cantentrionala
Name Name <th< td=""><td></td><td>Omphalocyclus</td><td></td><td></td><td>96</td><td>62</td><td></td><td></td><td></td><td></td><td>e e e e e e e e e e e e e e e e e e e</td><td></td></th<>		Omphalocyclus			96	62					e e e e e e e e e e e e e e e e e e e	
Partner <	Brönnimann 1954b				%	1	Maestrichtian		CFP		~	Oriente Province: Cuba
	Brönnimann 1954b				%	1	%				%	Palmer Station 1214, Gravell Station 7876; Cuba
	Brönnimann 1954b				%	1	%				%	
				(Lamarck)		36		GRC	EFP			du col d'attitude 860m à Kedronas, Grèce
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			macropora		%	56		IRN			%	Louristan
	Douvillé 1904	Omphalocyclus	macropora		%	56	late Maastichtian	IRN	EFP		%	Louristan, 40 km à l'ouest du Kouh Mapeul, 60 km au sud-est de Kirmanchan
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Hashimoto & Matsumaru 1981 Omphalocyclus macroporus Lamarck) Bit ASP 15(3) 5 km north of Bado, southeasten Luzon Hashimoto & Matsumaru 1984 Omphalocyclus sp % 65 Cretaceous PHL ASP \$(3) 5 km north of Bado, southeasten Luzon Hashimoto & Matsumaru 1984 Omphalocyclus macroporus % 65 % PHL ASP % Berrios Lutei & Pandan, Pandan Valley, Central Cebu Hashimoto & Matsumaru 1984 Omphalocyclus macroporus % 65 % PHL ASP % Berrios Lutei & Pandan, Pandan Valley, Central Cebu Hashimoto & Matsumaru 1984 Comphalocyclus macroporus % 65 Macstifichtian PHL ASP % Berrios Lutei & Pandan, Pandan Valley, Central Cebu Hofker 1986 Comphalocyclus macroporus (Lamarck) 48 Maestifichtian NLD EFP % Atlbert Canal, Justing of Cater and Vicenhover Hofker 1986 Comphalocyclus macroporus % 57 Dano-Maestifichtian NLD EFP % Atlbert Canal, Justing of Cater and Vicenhover Hofker 1986	Hashimoto et al 1978b	Omphalocyclus				65	Cretaceous	PHL			%	hear the P andan Hidi School Bo, Pandan ; on the Naga-Uling Road; Cetu
Hastimoto & Matsumaru 1984 Omphalocyclus sp. % 85 Cretacocus PHL ASP % PIrugay-Hill, Tanoy, Rizit Hastimoto & Matsumaru 1984 Omphalocyclus macroprus % 85 PHL ASP % Berrico Sutaix & P Handin, Pandan Yalley, Central Cebu Hastimoto & Matsumaru 1984 Omphalocyclus macroprus % 85 Maestirchtian PHL ASP % Berrico Sutaix & P Handin, Pandan Yalley, Central Cebu Hastimoto & Matsumaru 1984 Omphalocyclus macroprus % 85 Maestirchtian PHL ASP % Mort of Sam Miouel, Catanduanes Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maestirchtian NLD EFP % Mater Canal, Jutting of Cater and Yorenhover Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maestirchtian NLD EFP % Mater Canal, Jutting of Cater and Yorenhover Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maestirchtian NLD EFP % Mater Canal, Jutting of Cater and Yorenhover Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maestirchtian NLD EFP % puarry Fransen-Nelisien </td <td></td> <td>Omphalocyclus</td> <td></td> <td></td> <td></td> <td>65</td> <td>late Maastrichtian</td> <td></td> <td></td> <td></td> <td>15(3)</td> <td>5 km north of Bato, southeastern Luzon</td>		Omphalocyclus				65	late Maastrichtian				15(3)	5 km north of Bato, southeastern Luzon
Hashimoto & Matsumaru 1994 Omphalocyclus macroprus % 85 % 9HL ASP % Berrios Lutáx & Pandan, Pandan Valley, Certral Cebu Hashimoto & Matsumaru 1994 Omphalocyclus macroprus % 65 Meastichtian PHL ASP % Berrios Lutáx & Pandan, Pandan Valley, Certral Cebu Host etal 1976 Omphalocyclus macroprus % 67 Meastichtian CHN ASP 10(9-16) Mourt Johns Lungma region (Mt. Everet) Holker 1986 Omphalocyclus macroprus % 57 Dano-Maastichtian NLD EFP % dhil-twie Tertilit, C-5, S2-5 Holker 1986 Omphalocyclus macroprus % 57 Dano-Maastichtian NLD EFP % dpli-twie Tertilit, C-5, S2-5 Holker 1986 Omphalocyclus macroprus % 57 Dano-Maastichtian NLD EFP % dpli-twie Tertilit, C-5, S2-5 Holker 1986 Omphalocyclus macroprus % 57 Dano-Maastichtian NLD EFP % dpli-twie Tertilit, C-16, Mi-10, Mi-10	Hashimoto & Matsumaru 1984		sp.		%	65		PHL	ASP			
Hashmoto & Matsuman 1984 Omphalocyclus macroporus % S5 Meastinchian PHL ASP % north or Sam Miouel, Catandunans Hole at J1976 Omphalocyclus macroporus (Lamark) 48 Meastinchian CH ASP % Montechange Hole 1966 Omphalocyclus macroporus (Lamark) 48 Meastinchian NLD EFP % Molec Canal, cutting of Caster and Yosenhover Hoker 1966 Omphalocyclus macroporus % S7 Dano-Maestinchian NLD EFP % diff-lot Ferbild; (D.B.S25.5 Hoker 1966 Omphalocyclus macroporus % S7 Dano-Maestinchian NLD EFP % guarry Fransen-Nellsien Hoker 1966 Omphalocyclus macroporus % S7 Dano-Maestinchian NLD EFP % guarry Fransen-Nellsien Hoker 1966 Omphalocyclus macroporus % S7 Dano-Maestinchian NLD EFP % del Tonbe (37) Hoker 1966	Hashimoto & Matsumaru 1984		macroporus	1	%	65	%	PHL			%	
Hot et 1976 Omphalocyclus macroprus (Lamarck) 48 Maastinchlian CHN ASP 109-16 Mourt Julino Lugnan aregion (ML: Serest) Hotker 1986 Omphalocyclus macroprus % 57 Dano-Maastinchlian NLD EFP Albert Canal, Cutting of Caster and Yoenhover Hotker 1986 Omphalocyclus macroprus % 57 Dano-Maastinchlian NLD EFP % drill-hole Terblit, G.B. 3525 Hotker 1986 Omphalocyclus macroprus % 57 Dano-Maastinchlian NLD EFP % dpiare-Nelisieen Hotker 1986 Omphalocyclus macroprus % 57 Dano-Maastinchlian NLD EFP % dpiare-Nelisieen Hotker 1986 Omphalocyclus macroprus % 57 Dano-Maastinchlian NLD EFP % dpiare-Nelisieen Hotker 1986 Omphalocyclus macroprus % 57 Dano-Maastinchlian NLD EFP % Mell Forters 37. Plater, diil Inhelo B. 194 (40) Hotk					%	65	Maastrichtian	PHL	ASP		%	
Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestichtein NLD EFP % Albert Canal, utiling of Caster and Yorenhover Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestichtein NLD EFP % drill-Ibreitit, G.B.SS25 Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestichtein NLD EFP % drill-Ibreitit, G.B.SS25 Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestichtein NLD EFP % del Torbit, G.B.SS25 Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestichtein NLD EFP % del Torbit, G.B.SS25 Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestichtein NLD EFP % Well Forters St. Pieter, dill-Aloe G.B.194 (40) Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestichtein NLD EFP % Well Forters St. Pieter, dill-Aloe G.B.194 (40)				(Lamarck)		48		CHN	ASP		10(9-16)	Mount Jolmo Lungma region (Mt. Everest)
Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maastifichtian NLD EFP % drill-Note Tentilit, G.B. 3525 Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maastifichtian NLD EFP % guarry Fransen-Nelisson Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maastifichtian NLD EFP % de Tombe (37) Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maastifichtian NLD EFP % Weil Fortress St. Pieter, diil-hole G.B. 194 (40) Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maastifichtian NLD EFP % Weil Fortress St. Pieter, diil-hole G.B. 194 (40) Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maastifichtian NLD EFP % Weil Fortress St. Pieter, diil-hole G.B. 194 (40)	Hofker 1966	Omphalocyclus	macroporus		%	57		NLD	EFP		%	Abert Canal, cutting of Caster and Vroenhover
Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestrichtian NLD EFP % puarry Fransen-Nelissen Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestrichtian NLD EFP % de Tombe (37) Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestrichtian NLD EFP % Weil Fortres S1, Pieter, dill-Nole G B. 194 (40) Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestrichtian NLD EFP % Weil Fortres S1, Pieter, dill-Nole G B. 194 (40) Hotker 1966 Omphalocyclus macroprus % 57 Dano-Maestrichtian NLD EFP % Weil Fortres S1, Pieter, dill-Nole G B. 194 (40)	Hofker 1966	Omphalocyclus	macroporus		%	57	Dano-Maastrichtian	NLD			%	
Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maestifothian NLD EFP % Well Fortress St. Pieter, dnil hole O B. 194 (40) Hoter 1966 Omphalocyclus macroprus % 57 Dano-Maestifothian NLD EFP % puarry van der Zwend (41,	Hofker 1966	Omphalocyclus	macroporus	1	%	57	Dano-Maastrichtian	NLD			%	quarry Franssen-Nelissen
Hoter 1966 Omphalocyclus macroporus % 57 Dano-Maastrichtian NLD EFP % guarry van der Zween (41)	Hofker 1966			1	%	57	Dano-Maastrichtian	NLD			8	
Hotker 1965 Omphalocyclus Imacroporus % 57 Dano-Maastrichtian NLD EFP % Iguarry van der Zwean (41, * Hotker 1986 Omphalocyclus macroporus % 57 Dano-Maastrichtian NLD EFP % Iguarry van der Zwean (41, *	Hotker 1966			1	%		Dano-Maastrichtian	NLD			%	
promer 1986 jumpnaiocycus jmacroporus % 57 jDano-Maastrichtian INLD jEFP % jdril-hole Sibbe, 6.B. 3521 (43)					%	57		NLD			%	
				1	70	D /	Dano-maastrichtian	INED	ICL N		%	anii-noie Siade, G.B. 3621 (43)

Al-Omari& Sadek 1976 Azem a et al. 1979	Fig.1	Loftusia, Orbitoides, Cuneolina	limestones; shoal reefal facies	%
Azema et al. 1979	%	Navarella, Lepidorbitoides	biomicritic limestone (wackestone); open platform environment	%
Azema et al. 1979 Bignot 1972	% 51- 40.40	Orbitoides, Lepidorbitoides	calcaires gris	~
Bignot 1972 Bignot 1972	Fig. 48,49 Fig. 52	Siderolites	Flysch gris avec bancs microconglomèratiques	7₀ Flyschalter. Thanétien terminal ou Yprésien basal
Brönnimann 1954b	110.52 %	Vaughanina, Orbitoides, Lepidorbitoides, Sulcoperculina	11Yau1 gris avec barks mild obbingtomeratigges	%
Brönnimann 1954b	%	Sulcoperculina, Orbitoides	96	%
Brönnimann 1954b	%	Vaughanina, Sulcoperculina, Cuneolina	%	%
Butterlin 1967	%	Orbitoides, Sulcoperculina, Lepidorbitoides, Siderolites	%	%
Butterlin 1981	%	%	%	%
Caudri 1944 Caudri 1944	76	Orbitoides, Pseudorbitoides, Vaughanina, Lepidorbitoides, ?Meandropsina Orbitoides, Pseudorbitoides, Vaughanina, Lepidorbitoides, ?Meandropsina		76
Caus 1988	*	Orbitoldes, Pseudoloitoldes, Vaugnanina, Lepidoloitoldes, Imeandropania	terrigeneous platform, protected shelf area	
Caus & Cornella 1983	%	Siderolites, Didyopsella, Cuneolina	%	%
Caus & Hottinger 1986	%	%	%	%
Caus & Hottinger 1986	%	%	%	96
Caus & Hottinger 1986	%	%		%
Caus & Hottinger 1986 Caus et al. 1996	76	0rbitoides, Siderolites, Lepidorbitoides	% 	76
Causet al. 1996	96	Orbitoides, Siderolites, Lepidorbitoides		96
Cox 1937	%	Loftusia, Siderolites calcitrapoides		%
Cox 1937	%	Loftusia, Siderolites sp.	%	%
Cox 1937	%	Loftusia morgani, Orbitoides apiculata	%	Core depth 800 ft-2230 ft
Cox 1937	*	Loftusia elongata, Orbitoides cf. media	2	Core depth 2690 ft-3040 ft
Cox 1937 Dilley 1973	% Table 2	Siderolites calcitrapoides, Orbitoides cf. media	76 or.	Core depth ~ 1000 ft
Dilley 1973 Douvillé 1904	100/0 Z	Orbitoides %	%	70 %
Douvillé 1904	%	Loftusia	%	%
Ellis & Messina 1967	%	%	%	%
Ellis & Messina 1967	%	%	%	96
Ellis & Messina 1967	%	%	% 	%
Ellis & Messina 1967 Ellis & Messina 1967	% %	% %	% 96	%o o(
Ellis & Messina 1967	×	×	ý v v v v v v v v v v v v v v v v v v v	× ×
Ellis & Messina 1967	%	%	96	96
Ellis & Messina 1967	%	%	%	%
Ellis & Messina 1967	%	%	%	%
Ellis & Messina 1967	%	% 	*	%
Ellis & Messina 1967 Ellis & Messina 1967	76	76	76 97	76
Fleury 1977	Fig. 1	Siderolites		%
Fleury et al. 1985	Page 760	%	%	%
Fleury et al. 1990	%	Loftusia, Orbitoides, Siderolites, Lepidorbitoide:	%	%
Fleury et al. 1990	%	%	%	%
Fleury et al. 1990 Fleury et al. 1990	*	<u>*</u>	2	%
Fleury et al. 1990	76	76	76	70
Fleury et al. 1990				
Fleury et al. 1990	%	%	96	96
Fleury et al. 1990	%	96	%	%
Fleury et al. 1990	%	%	%	%
Fleury et al. 1990	%	%	%	%
Fleury et al. 1990 Gaetani et al. 1980	%	%	% depressed area surrounded by shallowwater complex, poorly oxygenated conditions	%
Gaetani et al. 1980	Fig. 1 Fig. 1 Fig. 1 Fig. 1 Fig. 1	70	depressed area surrounded by shallow water complex, poorly oxygenated conditions depressed area surrounded by shallow water complex, poorly oxygenated conditions	70
Gaetani et al. 1980	Fig. 1	Meandropsina?	depressed area surrounded by shallow water complex, poorly oxygenated conditions	
Gaetani et al. 1980	Fig. 1	%	depressed area surrounded by shallow/water complex, poorly oxygenated conditions	%
Gaetanietal. 1980	Fig. 1	Siderolites	shallowing upwards succession in which terrigenous supply gradually decreases upwards	out of place
Gaetanietal. 1980	Fig. 1 Fig. 1 Fig. 1	%	shallowing upwards succession in which terrigenous supply gradually decreases upwards	%
Gaetanietal. 1980 Gaetanietal. 1980	Fig.1	% *	depressed area surrounded by shallow water complex, poorly oxygenated conditions depressed area surrounded by shallow water complex, poorly oxygenated conditions	%
Gaetani et al. 1980 Gaetani et al. 1980	Fig. 1	20 96	depressed area surrounded by shallow water complex, poonly oxygenated conditions depressed area surrounded by shallow water complex, poorly oxygenated conditions	70 96
Gaetani et al. 1980	Fig. 1	Meandropsina?	depressed area surrounded by shallow water complex, poorly oxygenated conditions	%
Gaetanietal. 1980	Fig. 1 Fig. 1 Fig. 1	. %	depressed area surrounded by shallow water complex, poorly oxygenated conditions	%
Gaetaniet al. 1980	Fig. 1	%	quartz-rich sittites and sitty marts; shallowing upwards succession	out of place
0			in which terrigenous supply gradually decreases upwards	au
Gaetani et al. 1980 Grossouvre 1904	Fig. 1	% Orbitoides	%	76
Grossouvre 1904 Grossouvre 1904	%	Orbitoides	70	70
Grossouvre 1904	w w	Orbitoides	96	96
Grossouvre 1904	%	Orbitoides	%	%
Grossouvre 1904	%	Orbitoides	%	%
Gunter et al. 2002	Page 150	Orbitoides	shallow/tropical sea, dose to active volcances of a Cretaceous island-arc complex	%
Hagn 1971 Hamacui & Fourcade 1973	Page 20 %	Orbitoides, Siderolites, Lepidorbitoides	Nagel fuhbärke, rote und graue Mergel	%
Hamaoui & Fourcade 1973 Hamaoui & Fourcade 1973	%	×° %	9.	20 96
Hanzawa 1962	%	%	%	%
Hanzawa 1962	%	%	96	%
Hanzawa 1962	%	%	%	Type species: Orbulites macropora Lamarck
Hashimoto 1982	% Trates 4.0	Pseudorbitoides; G. stuarti	sandstone congiomerate	G. stuarti zone
Hashimoto et al. 1978a Hashimoto et al. 1978b	Txt-fig. 1-3 Txt-fig. 1,2	Lepidorbitoides, Orbitoides, Pseudorbitoides, Siderolites Lepidorbitoides	sharpstone-bearing conglomeratic sst.	Globotruncana lapparenti, G. sp.
Hashimoto & Matsumaru 1981	Page 64	Lepidorbitoides	gray limestone	Globotruncana lapparenti, G. sp. %
Hashimoto & Matsumaru 1984	%	Lepidorbriotoles %	gray ninescone %	%
Hashimoto & Matsumaru 1984	%	Lepidorbitoides	96	Globotruncana lapparenti, G. sp.
Hashimoto & Matsumaru 1984	%	Lepidorbitoides	grey limestone	%
Ho et al. 1976	%	Orbitoides	%	96
Hofker 1966	p.84;fig.53,1-2,fig.95	%	%	%
Hofker 1966 Hofker 1966	p.126,fig. 66 p.130;figs.85,1;86	% *	%	%
Hofker 1966 Hofker 1966	p.130;figs.85,1;86 p.133;figs.92,93	% or	76 92	% %
	p.159;figs.96,1;97	%	ý,	%
Hofker 1966				
Hofker 1966	p.159;figs.96,2;98	96	%	%
	p.159;figs.96,2;98 p.171;fiq.100	%	96	% %

1	1	1		1	In	1	les est		
Hofker 1966	Omphalocyclus	macroporus	%	57	Dano-Maastrichtian	NLD	EFP		quarry Curts (44)
Hofker 1966 Hofker 1966	Omphalocyclus	macroporus	%	30	Dano-Maastrichtian Dano-Maastrichtian	BE L NLD	EFP	%	Abert Canal, cutting of Vroenhoven, Belgium (48) Kunrade Chalk (55)
Hotker 1966	Omphalocyclus Omphalocyclus	macroporus macroporus	70 96	57	Dano-Maastrichtian	NLD	FFP	×	Wetterberg, well I and well II (58)
Hofker 1966	Omphalocyclus	macroporus	96	57	Dano-Maastrichtian	NLD	EFP		shaft I + II, State mine Emma (62)
Hofker 1966	Omphalocyclus	macroporus		57	Palencene	NLD	EFP		Will bill Puth S.M. XVII (64)
Hofker 1966	Omphalocyclus	macroporus	%	57	Dano-Maastrichtian	NLD	EFP	%	drill-hole Geleen-Centrum, S.M. XVI (66)
Hottinger 1966	Omphalocyclus	macropora	Lamarck	32	Maastrichtian	ESP	EFP	%	Bco. del Bosque, Sierra del Montsect
Hottinger 1981	Omphalocyclus	macroporus	(Lamarck)	56	Maastrichtian	IRN	EFP	1(1-4), 2(1-3)	Itan
Hottinger 1997	Omphalocyclus	sp.	%	5	Campanian, Maastrichtian	%	%	%	%
Inan 1996a	Omphalocyclus	macroporus	%	38	Maastrichtian	TUR	EFP	%	Koyulhisar-Siyas
Inan 1996b	Omphalocyclus	macroporus	Lamarck	38	Maastrichtian	TUR	EFP	%	Turkey
Inan et al. 1996	Omphalocyclus	macroporus	(Lamarck)	38	%		EFP	3(11)	Karacam Highland, Niksar
lon 1975	Omphalocyclus	sp.	%	41	late Maastrichtian	ROM	EFP	%	Risnov
Ismail & Boukhary 2001	Omphalocyclus	macropora	%	20	Campanian	EGY	AFP	3(5-7)	Southern Galala P lateau
Ismail & Boukhary 2001	Omphalocyclus	sp.	%	18	late Cretaceous	LBY	AFP	%	Libya
Ismail & Boukhary 2001	Omphalocyclus	sp. sp. sp.	%	48	late Maastrichtian	CHN	ASP	%	Tibet
Ismail & Boukhary 2001	Omphalocyclus	sp.	%	57	Maastrichtian	NLD	EFP	%	Holland
Ismail & Boukhary 2001	Omphalocyclus	sp.	%	1	Maastrichtian	сив	CFP	%	Cuba
Ismail & Boukhary 2001	Omphalocyclus	sp.	%	58	%	CHE	EFP	%	Switzerland
Ismail & Boukhary 2001	Omphalocyclus	sp.	%	16	%	DZA	AFP	%	N. Algeria
Ismail & Boukhary 2001	Omphalocyclus	sp.	%	46	%	PAK	ASP	76	W. Pakistan
Kalantari 1976 Kalantari 1976	Omphalocyclus	macroporus	%	56	Maastrichtian Maastrichtian	IRN IRN		24(1)	Sarvestan area Sarvestan area
Kalantari 1976	Omphalocyclus Omphalocyclus	macroporus macroporus	Lamarck	00	Maastrichtian	IRN	EFP	26(1) 27(20,21)	Sarvestan area
Kalkreuth et al. 1976	Omphalocyclus	sp.		30	late Cretaceous	GRC	EFP	00	Sia vestari al ea SW Potami bei Bachgabelung, südl. Argolis-Halbinsel, Peloponnes, Griechenland; Lat: 70016, Long: 415384
Küpper 1954b	Omphalocyclus	macropora	(Lamarck)	1	late Cretaceous	CUB	CFP	33(1)	hear Colleso, Mantanzas Province, Cuba
Küpper 1954b	Omphalocyclus	schlumbergeri	(Silvestri)	i i	late Cretaceous	CUB	CFP	33(2)	near Coliseo, Martanzas Province, Cuba
Küpper 1954b	Omphalocyclus	achidin bergen	96	24	late Cretaceous	FRA	EFP	34(3)	St. Marcet, Haute Garonne
Kureshy 1977	Omphalocyclus	macropora	(Lamarck)	46	Maastrichtian	PAK	ASP		Lakhi Range, Sind
Kureshy 1977	Omphalocyclus	macropora	(Lamarck)	46	late Campanian - early Maastrichtian	PAK	ASP	w w	Murree Brevery, Baluchistan
Kureshy 1977	Omphalocyclus	macropora	(Lamarck)	46	late Campanian - early Maastrichtian	PAK	ASP	l %	Harrai, Bauchistan
Kureshy 1977	Omphalocyclus	macropora	(Lamarck)	46	early Maastrichtian	PAK	ASP	%	Harrai, Baluchistan
Kureshy 1980	Omphalocyclus	macropora	(Lamarck)	46	Campanian-Maastrichtian	PAK	ASP	%	Pakistan
LeBlanc 2000	Omphalocyclus	macroporus	%	18	Cretaceous	LBY	AFP	%	A Hamadah (Ghadamis) basin, Libya; along the southwestern border of the Hon graben
									(=Djofra graben) on the vestem margin of the Sirte Basin
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	31	Maastrichtian	FRA	EFP	%	France
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	57	Maastrichtian	NLD	EFP	%	Netherlands
Loeblich & Tappan 1988	Omphalocyclus	sp. sp.	Bronn	58 35	Maastrichtian	CHE	EFP	%	Switzerland
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	35	Maastrichtian	ITA	EFP	%	haly
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	36 75	Maastrichtian	GRC	EFP	%	Greece
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	75	Maastrichtian	YUG	EFP	%	[∨] ugoslavia
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	41	Maastrichtian	ROM	EFP	%	Romania
Loeblich & Tappan 1988	Omphalocyclus	sp. sp. sp. sp.	Bronn	38	Maastrichtian	TUR	EFP	%	Turkey
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	56	Maastrichtian	IRN	EFP	%	l'an
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	28	Maastrichtian	SYR	AFP	%	Syria
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	17	Maastrichtian	TUN	AFP	%	Tunista
Loeblich & Tappan 1988	Omphalocyclus	sp. sp.	Bronn		Maastrichtian	IND CHN	ASP ASP	%	India
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	48	Maastrichtian			%	Tibet
Loeblich & Tappan 1988	Omphalocyclus	sp.	Bronn	1	Maastrichtian	CUB	CFP	704.0.0.705.4.0.	Cuba
Loeblich & Tappan 1988 McGowran 1968	Omphalocyclus	macroporus	(Lamarck)	55	Maastrichtian Maastrichtian	PAK	ASP	734(3-5), 735(1-2)	Iran Sind, West Pakistan
McGowran 1968	Omphalocyclus Omphalocyclus	sp. sp.	70	40	late Cretaceous	PAK	ASP	70	South of Sulaiman Range, West Pakistan
McGowran 1968 McGowran 1968	Omphalocyclus	sp.	76	40	Maestrichtian	PAK	ASP ASP	70	South of Sulaiman Range, West Pakistan Salt Range, West Pakistan
Meric 1967	Omphalocyclus	macroporus	(Lamarck)	38	late Maastrichtian	TUR	EFP	1(1,4-9); 2(2-7,9-11);	Sati Nange, viss raktali
mene raor	Omprialocyclus	macroporcis	(Lainai GK)	50	Inter Waterschuld Libert	1 OK	CI P	3(2.5.6); 4(3.4.12.13)	o of a new, Nonital, Mulyanian
Meric 1967	Omphalocyclus	macroporus	(Lamarck)	38	late Maastrichtian	TUR	FFP	1(2,3,11); 2(1)	Karadut, Kahta, Adiyaman
Meric 1967	Omphalocyclus	macroporus	(Lamarck)	38	late Maastrichtian	TUR	EFP		Silvanka, Siit
menerson	Cimpilalocyclus	india opia dis	(damarac)	30	Inter Waterstronder	1 on	L.I.I	4(1,2,7-10,11)	on to the solution of the solu
Meric 1967	Omphalocyclus	macroporus	(Lamarck)	38	late Maastrichtian	TUR	FFP	3(7,9,12); 4(5,6)	Malabadi, Siirt
Meric & Görmüs 2001	Omphalocyclus	macroporus	(Lamarck)	38	%	TUR	EFP	18(1,2)	Malabadi-Siirt, Turkey
Meric et al. 2001	Omphalocyclus	macroporus	96	56	Maastrichtian	IRN	EFP	%	190
Meric et al. 2001	Omphalocyclus	macroporus	%	23	Maastrichtian	OMN	AFP	%	Oman
Meric et al. 2001	Omphalocyclus	macroporus	9%	22	Maastrichtian	SAU	AFP	×	Saudi Arabia
Meric et al. 2001	Omphalocyclus	macroporus	%	38	middle-late Maastrichtian	TUR	EFP	%	SE Anatolia and other parts of Turkey
Meric et al. 1997	Omphalocyclus	macroporus	%	38	late Cretaceous	TUR	EFP	%	North of Asmayaylasi Village and Southeast of Seretlikochisar, Central Anatolia
Mu et al. 1973	Omphalocyclus	macroporus	%	48	Maastrichtian	CHN	ASP	%	Mount Jolmo Lungma Region, Southern Tibet
Nagappa 1959	Omphalocyclus	macropora	(Lamarck)	46	Maastrichtian	PAK	ASP	2(1)	Dunghan Range, Baluchistan
Nagappa 1959	Omphalocyclus	macropora	(Lamarck)	46	Maastrichtian	PAK	ASP	%	Lakhi Range, Sind
Nagappa 1959	Omphalocyclus	sp.	%	46	Maastrichtian	PAK	ASP	%	Lakhi Range, Sind
		1	1	1		1	1		
Nagappa 1959	Omphalocyclus	macropora	%	46	Maastrichtian	PAK	ASP	%	Quetta, Baluchistan
Nagappa 1959	Omphalocyclus	macropora	%	46	Maastrichtian	PAK	ASP	%	Rakhi Nala, Sulaiman Range
Nagappa 1959	Omphalocyclus	macropora	%	48	Maastrichtian	CHN	ASP	%	central Tibet
Neumann 1993	Omphalocyclus	macroporus	%	32	Maastrichtian	ESP	EFP	%	plate-formes E pyrénéennes
Neumann 1993	Omphalocyclus	sp.	%	32	Maastrichtian	ESP	EFP	%	Montsech
Neumann 1993	Omphalocyclus	macroporus	%	32	Maastrichtian	ESP	EFP	%	Montsech
Neumann 1993	Omphalocyclus	macroporus	%	71	Maastrichtian	SVK	EFP	%	Tchécoslovaquie
Özcan 1993	Omphalocyclus	macroporus	(Lamarck)	38	Maastrichtian	TUR	EFP	»	north-east Kahta region
Özcan 1993	Omphalocyclus	macroporus	(Lamarck)	38	Maastrichtian	TUR	EFP	hg. 4i	north-east Kahta region
Özcan & Özkan-Altiner 1997	Omphalocyclus	macroporus	(Lamarck)	38	late Maastrichtian	TUR	EFP	4(10,11)	Haymana basin
Özcan & Özkan-Altiner 1997	Omphalocyclus	sp.	%	38	late Maastrichtian	TUR	EFP	*	1 km SW of Yesilyut village; Haymana basin
Özcan & Özkan-Altiner 1997	Omphalocyclus	sp.	~	38	late Maastrichtian	TUR	EFP		40 m above Hay-W-115; Haymana basin
Özcan & Özkan-Altiner 1997	Omphalocyclus	sp.		38	late Maastrichtian	TUR	EFP EFP	1	Saridegirmen village, 10 km NW of Haymana
Özcan & Özkan-Altiner 1997	Omphalocyclus	sp.	%	38	late Maastrichtian	TUR			500 m SE of Kartalkaya Hill; Haymana basin
Özcan & Özkan-Altiner 1997	Omphalocyclus	Sp.	%	38	late Cretaceous	TUR	EFP	*	2.5 km SW of Haymana
Özcan & Özkan-Altiner 1999b Özcan & Özkan, Altiner 1999b	Omphalocyclus	macroporus	~	38	Maastrichtian	TUR) % *	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Omphalocyclus	macroporus	% ~		Maastrichtian	TUR	EFP EFP	76	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b Özcan & Özkan Altiner 1999b	Omphalocyclus	macroporus	~	38	Maastrichtian Maastrichtian	TUR	EFP	/ % *	Cide area (NW Black Sea coast) Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Omphalocyclus Omphalocyclus	macroporus macroporus	%	38	Maastrichtian	TUR	EFP FFP	76 92	(Cide area (NVV Black Sea coast) (Cide area (NVV Black Sea coast)
POZDALLO OZRALI-MALITOL 19930	rompitalocijulus	jinaci opci us	1 76	, lan	pression of mail	1 UN	let r	1 20	(New Break (NYY Disck Sea Costs)

hi a liana	1			
Hofker 1966	p.172;figs.101,102	%	%	%
Hofker 1966	p.201;fig.105.1,107	%	%	%
Hofker 1966	%	%	%	%
Hofker 1966	p.274;figs:124,125	%	%	%
Hofker 1966	p.275;fig.131	%	%	%
Hofker 1966	p.275; fig.133	*	%	%
Hofker 1966	p.276; fig.135	%	%	%
Hottinger 1966	Fig. 2	Siderolites, Orbitoides	calcaires gréseux très durs	%
Hottinger 1981	%	%	%	%
Hottinger 1997	%	Hellenocyclina, Orbitoides, Lepidorbitoide:	upper photic zone: 40-80 m	%
Inan 1996a	Fig. 1		Limestone, sandy limestone, clayey limestone; Tidal - Back ree	%
Inan 1996b	96	Laffitteina, Cuneolina, Loftusia, Orbitoides, Sirtina		<u>~</u>
Inan et al. 1996	Fig. 1	Laniteina, Coneoina, Loitosa, Oroitotees, Sirtina	8 8	~
1121 6121. 1330	Fig. 1	26 Lepidorbitoides, Orbitoides, Siderolites; A. mayaroensis	70	70
lon 1975 Ismail & Boukhary 2001	rių. i		2000	<u>~</u>
	20	Orbitoides media, Sulcoperculina globosz	70	20
Ismail & Boukhary 2001	%	76	2 ×	%
Ismail & Boukhary 2001	%	%	*	%
Ismail & Boukhary 2001	%	%	%	%
Ismail & Boukhary 2001	%	%	%	%
Ismail & Boukhary 2001	%	%	%	%
Ismail & Boukhary 2001	%	%	%	%
Ismail & Boukhary 2001	%	%	%	%
Kalantari 1976	Fig. 1	Siderolites, Loftusia	marty limestone	Loftusia minor & harrisoni zone
Kalantari 1976	Fig. 1	Loftusia	limestone	Loftusia minor & harrisoni zone
Kalantari 1976	Fig. 1	%	%	Loftusia minor & harrisoni zone
Kalkreuth et al. 1976	Page 23	%	%	%
Küpper 1954b	%	×.	96	%
Küpper 1954b		96	n n n n n n n n n n n n n n n n n n n	%
Küpper 1954b		06	02	alternating embryonic chambers
Kureshy 1977	Fig. 1	Siderolites, Orbitoides, Sulcoperculina		Orbitoides media zone
Kureshy 1977	Fig. 1 Fig. 1	Lepidorbitoides, Orbitoides, Sideolfes, Sulcoperculina	76 Carbonate facies	%
	Fig. 1	Copisionatoraco, o nonorados, Sisteralizas, Suboper calma Orbitaldas, Lasidadelizadas, Cidenalizas, Suboper calma		70 %
Kureshy 1977	Fig. 1	Orbitoides, Lepidorbitoides, Siderolites, Sulcoperculina	hard massive, splintry, light brown in color; Carbonate facies	
Kureshy 1977	Fig.1	Orbitoides, Siderolites, Sulcoperculina, Lepidorbitoides	2	Orbitoides media zone
Kureshy 1980	Page 94	Orbitoides, Lepidorbitoides, Siderolites, Sulcoperculina	%	%
LeBlanc 2000	Fig. 35	%	mari	Type section of the Zmam Fm: isolated hill near
				the entrance of Wadi Tar, about 48 km N/V of the oasis of Socna
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	96	%
Loeblich & Tappan 1988	%	96	96	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	96	%
Loeblich & Tappan 1988	96	*	96	96
Loeblich & Tappan 1988	96 96		44	96
Loeblich & Tappan 1988	 ~	70 0 0	20 27	~~~
	70	70	70	20
Loeblich & Tappan 1988	70	70	70	70
Loeblich & Tappan 1988	%	26	%	26
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
McGowran 1968	%	Siderolites, Lepidorbitoides	%	%
McGovran 1968	%	Orbitoides	%	%
McGowran 1968	%	%	%	%
Meric 1967	%	%	%	%
Meric 1967	%	%	%	%
Meric 1967	96	*	96	96
	~	~	~	~
Meric 1967	~	~	~	~
Meric & Görnüs 2001		Lotusia	0 0	/0 96
Maria et al. 2004	70		70	70
Meric et al. 2001	1 ×	Loftusia, Orbitoides	2	% //
Meric et al. 2001		Loftusia, Orbitoides	2	%
Meric et al. 2001	%	Orbitoides, Loftusia	%	%
Meric et al. 2001	%	Loftusia, Orbitoides	%	%
Meric et al. 1997	%	Loftusia, Orbitoides, Hellenocyclina, Lepidorbitoides, Siderolites	%	%
Muetal. 1973	%	Orbitoides	Limestone intercalated with calcareous shale; shallow water; platform type	%
Nagappa 1959	Page 178	Siderolites	%	%
Nagappa 1959	Txt-fig. 2	Orbitoides, Siderolites, Globigerina, Guembelina	light-coloured massive or thick-bedded limestones,	maximum thickness 320'+; base not exposed
			becoming sandy toward the top; deposition on the continental shelf	
			in warm, shallow, sometimes sheltered waters of the inner neritic environment	
Nagappa 1959	Txt-fig. 2	Globotruncana linneiana, Globotruncana stuarti	light-coloured massive or thick-bedded limestones.	maximum thickness 320'+; base not exposed
			becoming sandy toward the top; deposition on the continental shelf	
	1		in warm, shallow, sometimes sheltered waters of the inner neritic environment	
Nagappa 1959	Txt-fig. 2	Orbitoides, Siderolites	Ishelf deposits in shallow inner neritic environments	96 I
Nagappa 1959	Txt-fig. 2	Orbitoides, Siderolites		20 02
Nagappa 1959		Orbitolides, Subiologies	70	70
Nagappa 1959	Table 8	Orbitoides	*	<u>%</u>
Neumann 1993	% ~	% ~	1 ×	70
Neumann 1993	%	%	%	%
Neumann 1993	%	%	%	%
Neumann 1993	%	%	%	%
Ozcan 1993	%	Orbitoides, Siderolites, Lepidorbitoides, Loftusia	friable rudistid sandy facies	%
Özcan 1993	%	Orbitoides, Siderolites, Sirtina, Lepidorbitoides, Loftusia	sandy bioclastic carbonates	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Siderolites, Loftusia, Sirtina, Hellencoydina	sitstone-sandstone and carbonate and biodastic limestone; shallowwater	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Siderolites, Lepidorbitoides	friable sandstone; shallow/water	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides	massive dastic sitistone-sandstone; shallow water	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Espitoibiloides Orbitoides, Lepidorbitoides, Siderolites, Sirtina, Hellenocydina	biodastic: shallow water	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Sirtina, Siderolites, Hellenocyclina	sandstone horizon between shale-mari units; deep-marine grade into turbitidic	n n n n n n n n n n n n n n n n n n n
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Sirana, Siderolites, Hellenocyclina, Sirtina	nodular, friable imy sandstone and sandy limestone	
Özcan & Özkan-Attiner 1997 Özcan & Özkan-Attiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Lotrusia, Siderolites, Helenocyclina, Sirtina	nowing, make my service and service and service of	76 G. gansseri zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Lepidorbitoides	70	G. ganssen zone G. gansseri zone
Ozcari o Ozkari-Aurier 19990	Fig. 3	Orbitolides, Sucronies, Lepidor Mitolides	70	O. ganssen zurie
		Orbitoides, Siderolites, Lepidorbitoides	76	G. gansseri zone
Özcan & Özkan-Altiner 1999b	1.2.2			
Ozcan & Ozkan-Atliner 1999b Özcan & Özkan-Atliner 1999b Özcan & Özkan-Atliner 1999b	Fig. 3 Fig. 3 Fig. 3	Orbitoides, Siderolites, Lepidorbitoides Orbitoides, Siderolites, Lepidorbitoides	% 	A. mayaroensis zone A. mayaroensis zone

Bignot 1972	Clypeorbis	SD.	%	63	Maastrichtian	ISVN	EFP		%	route 2058 entre Sedovec et Ravnica
					1			1		
Publication	Genus	Species	Reference	Loc-llo	Stratigraphic age	Country	Faunal Province	Illustration		Site
ciypeorois										
Clypeorbis										
Willem set al. 1996	Omphalocyclus	macroporus	%	48	middle Maastrichtian	CHN	ASP		%	Profile L, Section Tingri, Tibet
Willems et al. 1996	Omphalocyclus	macroporus	%	48	Maastrichtian	CHN	ASP		%	ca. 100 m north of Gamba, Tingri area, Tibet
//en 1987	Omphalocyclus	macroporus	(Lamarck)	48	Campanian-Maastrichtian	CHN	ASP		%	k m E Kamba village
Alen 1987	Omphalocyclus	macroporus	(Lamarck)	48	Campanian-Maastrichtian	CHN	ASP	0(0,4,0)	%	ranii naa seduur, Suaman kange, Numen Paksan SE of Gamba to Julua hili
Neiss 1993	Omphalocyclus	macroporus	(Lamarok)	46	early Maastrichtian	PAK	ASP	9(3,4,6)		Burgerwald it-quairy, St. Fietersberg Rakhi Nala section, Sulaiman Range, Northern Pakistan
fisser 1951 fisser 1951	Omphalocyclus Omphalocyclus	macropora macropora	(Lamarck) (Lamarck)	57	Maastrichtian Maastrichtian	NLD	EFP	11(7) 11(8)		Burgerwacht-quarry, St. Pietersberg Burgerwacht-quarry, St. Pietersberg
isser 1951	Omphalocyclus	macroporus	(Lamarck)	57 57	Maastrichtian	NLD NLD	EFP	9(2)		Burgerwacht-quarry, St. Pietersberg
fisser 1951	Omphalocyclus	macroporus	%	57	Hervian and Maastrichtian (Md)	NLD	EFP		%	South-Limburg
isser 1951	Omphalocyclus	macroporus	%	35	late Cretaceous	ITA	EFP		%	Central Appenines, Italy
isser 1951	Omphalocyclus	macroporus	%	36 35	Maastrichtian	GRC	EFP		%	Leukas, Greece
isser 1951	Omphalocyclus	macroporus	%	58	Maastrichtian	CHE	EFP		%	Bielersee, Switzerland
un & Zhang 1983	Omphalocyclus	macroporus	(Lamarok)	48	Maastrichtian	CHN	ASP		%	Southern Tethys-Himalayan belt; S of Zanda-Gyrong-Tingri-Sakya-Kangma-Lhunze line; Gamb
irel 1996	Omphalocyclus	macroporus	~	38	Maastrichtian	TUR	EFP		%	Ovacuma village, Ulustown, NE of Zongulada, Nothern Turkey,
irel 1996	Omphalocyclus	macroporus	%	38	Maastrichtian	TUR	EFP		%	Caldad anticline, A hini likuvu vili ace, 4 km west of Hawmana town. S of Ankara
irel 1996 irel 1996	Omphalocyclus Omphalocyclus	macroporus macroporus	76 96	38	Maastrichtian Maastrichtian	TUR	FFP		70 9%	Peyamii hill, 8 km north of Dundarii town, SW of Kayseri Demircilik village, NW of Tecer mountains, S of Sivas, Central Turkey
irel 1996 irel 1996	Omphalocyclus	macroporus	% %	38 38	Maastrichtian Maastrichtian	TUR	EFP		70 0/	Gölköy town, S of Ordu, Northern Turkey Peyamli hill, 8 km north of Dündarli town, SW of Kayseri
irel 1996	Omphalocyclus	macroporus	%	38 38	Maastrichtian	TUR	EFP		% X	Dündarli area, SW of Kayseri, Central Turkey
irel 1991	Omphalocyclus	macroporus	(Lamarck)	38	late Maastrichtian	TUR	EFP	-	%	Cide region
eiglie & Ayala-Castanares 1963	Omphalocyclus	sp.	%	5	%	CUB	CFP	35(5)		%
eiglie & Ayala-Castanares 1963	Omphalocyclus	sp.	· %	1	%	CUB	CFP		%	Cantera Penalver, en el tramo de la Vía Monumental entre la Vía Blanca y la Carretera Central, Prov. La Habana
eiglie & Ayala-Castanares 1963	Omphalocyclus	macroporus	(Lamarck)	1	late Maastrichtian	CUB	CFP		%	Cantera Penalver, en el tramo de la Vía Monumental entre la Vía Blanca y la Carretera Central, Prov. La Habana
										1 km de los Ferrocarriles Occidentales de Cuba; 4 km SE del Central Perseverancia
orgino la Alyaita-Castalita es 1963	ompitalocyclus	ap.	20	ľ	70	COB	or -	55(4), 30(1)		Camino interior en finca Asturias, a traves del potrero, 400m NE del entronque del camino Serventia del Real Campina-inca Asturias con el camino Circulatión del Hato Magdalena;
eiglie & Ayala-Castanares 1963 eiglie & Ayala-Castanares 1963	Omphalocyclus Omphalocyclus	achiumbergen	(Silvestri)	L.	Maastrichtian	CUB	CEP	35(4); 36(1)	/0	Camino Real viejo de Yaguaramas-Adreus; 400 m. al vv del Batey Clenaguita. Prov. Las villas Camino interior en finca Asturias; a través del potrero; 480m NE del entronque del camino Serventia del Real Campina-finca
eiglie & Ayala-Castanares 1963 eiglie & Ayala-Castanares 1963	Omphalocyclus	sp. schlumbergeri	(Silvertri)	1	Monstrichtion %	CUB	CFP		70 0/	Camino Real Viejo de Yaguaramas-Abreus; 5.7 km al WSW de Abreus. Prov. Las Villas Camino Real Viejo de Yaguaramas-Abreus; 400 m. al W del Batey Cienaguita. Prov. Las Villas
eiglie & Ayala-Castanares 1963	Omphalocyclus	sp.	%	2	%	CUB	CFP		%	Camino Viejo de Yaguaramas-Abreus; 2.3 kms. al WSW del Batey Cienaguita; 3 kms. al N de Algodones. Prov. Las Villas
	L			1.						
ieiglie & Ayala-Castanares 1963	Omphalocyclus	schlumbergeri	(Silvestri)	1	Maastrichtian	CUB	CFP	35(3)		Camino Alava-Bidasoa; finca La Cienfueguera; 1.7 km. al NW del río Mayor, Prov. Las Villas
artorio & Venturini 1988	Omphalocyclus	macroporus	(Lamarck)	56	Maastrichtian	IRN	EFP	p.128		Parnezam, Zagros
artorio & Venturini 1988	Omphalocyclus	macroporus	(Lamarck)	- %	Maastrichtian	96	EFP	p.126,128		Adriatic Sea
enz 1955	Omphalocyclus	cf. macroporus	(Lamarck)	57	Maastrichtian	NLD	EFP	5(7-9)		Maastricht, Netherlands
enz 1955	Omphalocyclus	cf. macroporus	(Lamarck)	1	late Cretaceous	CUB	CFP	5(4-5,10)		Cuba
enz 1955	Omphalocyclus	cf. macroporus	(Lamarck)	10	Maastrichtian	VEN	CEP	5(6)		Paso Copey, west of San Sebastián, State of Aragua
enz 1936 enz 1955	Omphalocyclus	cf. macroporus	(Lamarck)	48 10	Maastrichtian	VEN	CEP	5(1-3)		Paso Copey, west of San Sebastián, State of Aragua
enz 1936	Omphalocyclus Omphalocyclus	sp.	70	44/45	late Cretaceous	CHN	ASP		70 0/	Indien Tibet
enz 1936 enz 1936	Omphalocyclus	sp.	%	46 44/45	late Cretaceous late Cretaceous	IND	ASP ASP		%	Belutschistan
enz 1936	Omphalocyclus	sp.	%	17	late Cretaceous	TUN PAK	AFP		%	Tunis Retreatives
tenz 1936	Omphalocyclus	sp.	%	56	late Cretaceous	IRN	EFP		%	Persien
tenz 1936	Omphalocyclus	sp.	%	69	late Cretaceous	ZYP	AFP		%	Cypern
Renz 1936	Omphalocyclus	sp.	%	36	late Cretaceous	GRC	EFP		%	Griechenland (inklus. Rhodos)
Renz 1936	Omphalocyclus	sp.	%	41	late Cretaceous	ROM	EFP		%	Rumänien
Renz 1936	Omphalocyclus	sp.	%	35	late Cretaceous	ITA	EFP		%	Italien
Renz 1936	Omphalocyclus	sp.	%	57	late Cretaceous	NLD	EFP		%	Holand
Renz 1936	Omphalocyclus	so.	(Laintar Gr.) %	31	late Cretaceous	FRA	EFP	02(1,2)	%	Frankreich
Renz 1936	Omphalocyclus	macropora	(Lamarok)	58	Maastrichtian	CHE	EFP	32(1,2)		Afemée
Papp 1954	Omphalocyclus	macroporus	70 or	24	Maastrichtian	FRA	CCP		70 0/	Gersac: Fruska-Gora
Papp 1954 Papp 1954	Omphalocyclus Omphalocyclus	macroporus macroporus	%	57 59	Maastrichtian Maastrichtian	NLD AUT	EFP		% %	Maastricht Flysch bei Wien, Gosau bei Grünbach
zkan-Altiner & Özcan 1999	Omphalocyclus	macroporus	%	38	Maastrichtian	TUR	EFP	-	<u>%</u>	Cide region
zcan & Özkan-Altiner 1999b	Omphalocyclus	macroporus	%	38	%	TUR	EFP		<u>%</u>	Haymana area (central Anatolia)
zcan & Özkan-Altiner 1999b	Omphalocyclus	macroporus	%	38	Campanian-Maastrichtian	TUR	EFP		%	Haymana area (central Anatolia)
zcan & Özkan-Altiner 1999b	Omphalocyclus	macroporus	%	38	Maastrichtian	TUR	EFP		%	Cide area (NW Black Sea coast)
zcan & Özkan-Altiner 1999b	Omphalocyclus	macroporus	%	38	early Maastrichtian	TUR	EFP		%	Kahta area (SE Anatolia)
zcan & Özkan-Altiner 1999b	Omphalocyclus	macroporus	96	38	early Maastrichtian	TUR	EFP		%	Kahta area (SE Anatolia)
zcan & Özkan-Altiner 1999b	Omphalocyclus	macroporus	%	38	Maastrichtian	TUR	EFP		%	Cide area (NW/ Black Sea coast)
zcan & Özkan-Altiner 1999b	Omphalocyclus	macroporus	~	38	Maastrichtian	TUR	EFP		%	Cide area (NV Black Sea coast)
	Omphalocyclus	macroporus macroporus	ŵ.	38 38	Maastrichtian Maastrichtian	TUR	EFP		76 97	Cide area (NW/ Black Sea coast) Cide area (NW/ Black Sea coast)
can & Özkan-Altiner 1999b can & Özkan-Altiner 1999b	Omphalocyclus									

ublication	Genus	Species	Reference	Loc-No	Stratigraphic age	Country	Faunal Province	Illustration	Site
Bignot 1972	Clypeorbis	SP.	%	63	Maastrichtian	SVN	EFP	%	route 2058 entre Sedovec et Ravnica
Busulini et al. 1984	Clypeorbis	mamillata	Schlumberger	72	late Maastrichtian	ITA	EFP	%	Sardinia
Caus 1988	Clypeorbis	sp.	%	32	Campanian, Maastrichtian	ESP	EFP	%	Pyrenean basin
Caus 1988	Clypeorbis	sp.	%	32	Maastrichtian	ESP	EFP	%	Pyrenean basin
Caus & Hottinger 1986	Clypeorbis	sp.	%	\$	Santonian-Campanian	%	%	%	Tethys
tanzawa 1962	Clypeorbis	mamillata	(Schlumberger)	%	%	%	%	1(38,42-44)	%
lanzawa 1962	Clypeorbis	mamillata	(Schlumberger)	31	%	FRA	EFP	4(4)	St. Marcit, Haute Garonne, France
tanzawa 1962	Clypeorbis	sp.	Douvillé	- 5	Maastrichtian	%	%	%	%
lottinger & Caus in press	Clypeorbis	mammillatus	(Schlumberger)	31	Maastrichtian	FRA	EFP	8(1-6)	St. Marcet, Aquitaine Occidentale, France
lottinger & Caus in press	Clypeorbis	mammillatus	(Schlumberger)	32	Maastrichtian	ESP	EFP	8(7-8)	Tremp, SE Pyrenees, Spain
oeblich & Tappan 1988	Clypeorbis	sp.	Douvillé	31	late Maastrichtian	FRA	EFP	%	South France
oeblich & Tappan 1988	Clypeorbis	sp.	Douvillé	32	late Maastrichtian	ESP	EFP	%	North Spain
oeblich & Tappan 1988	Clypeorbis	mammillatus	(Schlumberger)	31	Maastrichtian	FRA	EFP	735(5-8)	Gensac, Dept. Haute Garonne, France
/avrik as et al. 1994	Clypeorbis	mamillata	%	36	late Maastrichtian	GRC	EFP	%	Ori Valtou
Aeertens & Drooger 1988	Clypeorbis	mamillata	(Schlumberger)	31	Maastrichtian	FRA	EFP	figs.1-8	track leading to abandoned limestone quarry of Larcan, north of Saint-Gaudens, Haute-Garonn
feric & Coruh 1991	Clypeorbis	mamillata	(Schlumberger)	38	middle-late Maastrichtian	TUR	EFP	%	NW Siirt, SE Anatolia
leumann 1993	Clypeorbis	mamillata	%		Maastrichtian		EFP	%	plate-formes E pyrénéennes
zcan & Özkan-Altiner 1999b	Clypeorbis	mamillata	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Clypeorbis	mamillata	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Clypeorbis	mamillata	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özkan-Altiner & Özcan 1999	Clypeorbis	mamillata	%	38	Maastrichtian	TUR	EFP	%	Cide region
Schlumberger 1903	Orbitoides	mamillata	n. sp.	31	Cretaceous	FRA	EFP	8(17-20)	Gensac
Sirtina									
Publication	Genus	Species	Reference	Loc-No	Stratigraphic Age	Country	Faunal Province	Illustration	Site
bramovich et al. 2002	Sirtina	orbitoidiformis	(Brönnimann & Wirz)	20	Late Maastrichtian	MDG	AFP	4(1-3)	Berivotra, Mahajanga Basin, Madagasca

Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Siderolites, Lepidorbitoides, Sirtina	%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Siderolites, Lepidorbitoides, Sirtina, Clypeorbis	96	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Siderolites, Lepidorbitoides, Sirtina, Clypeorbis, Helenocyclina	96	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Siderolites, Lepidorbitoides, Sirtina, Clypeorbis, Helenocyclina	96	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Siderolites, Lepidorbitoides, Sirtina, Hellenocyclina	96	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Lepidorbitoides	96	possibly G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Lepidorbitoides	96	possibly G, acqyptiaca zone
Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Lepidorbitoides, Siderolites	%	G. gansseri zone
Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Lepidorbitoides	96	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3		Orbitoides, Lepidorbitoides, Siderolites, Sirtina, Hellenocyclina	96	%
Özkan-Altiner & Özcan 1999	Fig. 1		Gansserina gansseri	%	%
Papp 1954		%	%	%	%
Papp 1954		%	96	96	96
Papp 1954		%	%	96	96
Renz 1936	Page 545		%	gelbe und graue Kalke	Dm bis 6 mm; Syn.: Orbuites macropora, Sporadotrema errantium
Renz 1936	1	%	%	26 View Control 1997	
Renz 1936		%	%	96	96
Renz 1936		%	×	×	96
Renz 1936		%		96	96
Renz 1936		%	×	×	96
Renz 1936		%	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~
Renz 1936	1	%		l 🥳	n n n n n n n n n n n n n n n n n n n
Renz 1936	1	%	a a a a a a a a a a a a a a a a a a a	a a a a a a a a a a a a a a a a a a a	i i i i i i i i i i i i i i i i i i i
Renz 1936		%	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Renz 1936		% %		70 64	70 92
Renz 1936		96			04
Renz 1955	Page 68	/0	70 00	70 W	0 0
Renz 1955	Page 68				24 24
Renz 1955	Page 68		~~~~~		70 W
Renz 1955	Page 68		°	~	2
Sartorio & Venturini 1988	Fage 66	or.	70 00	70	70
Sartorio & Venturini 1988		/0 0/	2°	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~
	Page 5	70	Orbitoides, Asterorbis, Sulcoperculina	Caliza recristalizada, estratificada, blanco amanilenta.	20 9 9
Sergile & Ayala-Casta lai es 1805	rageu		on biologes, Azeronais, Sucoperculina	con numerosos foraminí feros en color blanco	10
Seiglie & Ayala-Castanares 1963	Page 6		Orbitoides, Asterorbis, Vauqhanina, Sulcoperculina	Caliza densa, dura, aporcelanada, blanca, con macroforaminíferos	~
Seiglie & Ayala-Castanares 1963	Page 6		Lepidorbitoides, Asterorbis	Caliza dura, recristalizada, sacaroidea, blanca, con macroforaminí feros	2
Seiglie & Ayala-Castanares 1963	Page 6		Orbitoides, Asterorbis, Vaudhanina, Sulcoperculina	Calizas duras, recristalizadas, blancas, con macroforaminíferos	20 20
Seiglie & Ayala-Castanares 1963	Page 7		Orbitoides, Asterorbis, Sulcoperculina	Calizas duras, recristalizadas en parte, color crema rosáceo, con macroforaminíferos	~
Sergile & Ayala-Casta lai es 1905	rayer		on biologes, Asteronois, Soloper cain a	calizas duras, reu istalizadas en parte, culor crema rosaceo, cum macioloralminieros	10
Seiglie & Ayala-Castanares 1963	Page 14		Asterorbis, Vaughanina, Siderolites, Sulcoperculina	Calcirudita, deleznable, arcillosa, color gris ciaro	~
Seiglie & Avala-Castanares 1963	Page15		Orbitoides, Lepidorbitoides, Pseudorbitoides, Vaughanina, Sulcoperculina	Calcirudita, delezitable, al cilosa, color gris ciaro Calcirudita a calcarenita, dura, consolidada, color gris ciaro	70
Seiglie & Ayala-Castanares 1963	Pagero	o/	or bicodes, deproduction des, Pseudorbico des, Vaugnanina, Suicopercuina	cardi dulla a calcarenita, dulla, consultada, color gins da lo	70 keine Angaben zur Lokalität
Sirel 1991	Cin 4	76	70	70	kenne Angaben zur Eokaikak
Sirel 1996	Fig. 1 Fig. 1		Siderolites, Sirtina, Hellenocyclina, Lepidorbitoides, Orbitoides, Navarella	light gray limestone, green and dark red siltstone, tufft intercalation	2000
Sirel 1996	Fig. 1		Loftusia, Siderolites, Hellenocyclina, Orbitoides, Laffitteina Siderolites, Hellenocyclina, Orbitoides	Sandy limestone, Marl, argillaceous limestone limestones	70 07
Sirel 1996	Fig. 1		Siderolites, Hellenocyclina, Orbitoides Loftusia, Siderolites, Hellenocyclina, Orbitoides, Laffitteina		/* *
Sirel 1996	Fig. 1		Loftusia, Sideroites, Helenocyclina, Orbitoides, Lanitteina	limestone; shallow water limestone: shallow water	10 00
Sirel 1996	Fig. 1		Lonusia, Lamiteina Laffitteina, Siderolites, Hellenocyclina, Orbitoides, Sirtina	limestone; shailow water	70
Sirel 1996	Fig. 1				70 or
Sun & Zhang 1983	Fig. 1		Orbitoides Orbitoides	limestone; shallow vater limestone; shallow vater	70
Visser 1951			or neoraes	Intestore, Sitalow valer	10
Visser 1951 Visser 1951	Page 294 Page 294		70	70	70
Visser 1951 Visser 1951			1 %o	2	76
Visser 1951 Visser 1951	Page 294 Page 294		76 or	2 2	70
Visser 1951 Visser 1951			70	78	70
Visser 1951 Visser 1951	Page 294		76	yellowrather soft mari	76
Visser 1951 Visser 1951	Page 294		1 % or	somewhat darker yellow fossil-waste-bed vellowharder mart	70
	Page 294		76		70
Weiss 1993	Fig. 1		Orbitoides	Limestone	Orbitoides media - Omphalocyclus macroporus Assemblage
Wen 1987	Fig. 9-1		%	grey linestone	%
Wen 1987	Fig. 9-1		%	Imestone	%
Willems et al. 1996	Fig. 2		Orbitoides	diverse	%
Willems et al. 1996	Fig. 2		Orbitoides	%	Gansseri- Biozone
Clypeorbis					

ublication	Loc-Descr.	Association	Lithology and Facies	Remarks
gnot 1972	Fig. 52-54	Siderolites, Omphalocyclus	conglomératiques	reworked material
usulinietal. 1984	%	Siderolites, Orbitoides, Lepidorbitoide:	%	%
aus 1988	%	%	open marine shelt	%
ius 1988	%	%	open marine shel1	%
aus & Hottinger 1986	%	%	%	%
inzawa 1962	%	%	%	%
anzawa 1962	%	%	96	%
inzawa 1962	%	%	%	%
ottinger & Caus in press	%	%	%	%
ttinger & Caus in press	%	%	%	%
eblich & Tappan 1988	%	%	%	%
eblich & Tappan 1988	%	96	%	%
eblich & Tappan 1988	%	%	%	%
wrik as et al. 1994	Fig. 1 P.278	%	limestones with large rudists	%
ertens & Drooger 1988		Lepidorbitoides	maris	96
eric & Coruh 1991	Fig. 1	Orbitoides, Omphalocyclus, Lepidorbitoides, Sulcoperculina, Cuneolina, Sirtini	%	%
umann 1993	%	%	%	%
can & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Lepidorbitoides	%	A. mayaroensis zone
zcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Lepidorbitoides, Hellenocyclina	%	A. mayaroensis zone
zcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Lepidorbitoides, Hellenocyclina	%	A. mayaroensis zone
kan-Altiner & Özcan 1999	Fig. 1	Abathomphalus mayaroensis	%	%
hlumberger 1903	%	%	%	type species
tina				

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Abramovich et al. 2002	Fig. 1	%	%	%

Abramovich et al. 2002	Sirtina	n.sp.	%	29 Late Maastrichtian	MDG	AFP	4(4,11-14)	Berivotra, Mahajanga Basin, Madagasca
ignot & Neumann 1997	Sirtina	cf. orbitoidiformis	Brönnimann & Wirz	30 Campanian	BEL	EFP	%	Folx-les-Caves, à l'est de Bruxelle:
qnot & Neumann 1997	Sirtina	orbitoidiformis	Brönnimann & Wirz	31b %	FRA	FFP	fa.1-4	Charentes, France
önnimann & Wirz 1962	Sirtina	orbitoidiformis	Brönnimann & Wirz	56 Early Maastrichtian	IRN	EFP	figs.2,3,6	Persian Gulf, Iran; 29"17'41"N, 49"31'35" E
önnimann & Wirz 1962	Sirtina	orbitoidiformis	Brönnimann & Wirz	18 Early Maastrichtian	LBY	AFP	fa 4	Sirte Basin, Cyrenaica, Libya
önnimann & Wirz 1962	Sirtina	orbitoidiformis	Brönnimann & Wirz	18 Early Maastrichtian	LBY	AFP	fin 5	Sitte Basin, Cyrenaica, Libya
aus 1988	Sirtina	50	%	32b Santonian, Campanian	ESP	FFP		Pyrenean basin
aus 1988	Sirtina	50	96	32b Campanian, Maastrichtian	ESP	FFP	%	Pyrenean basin
ausetal. 1996	Sirtina	50	%	59 Late Campanian	AUT	EEP	%	Pemberger, Carinthia (Austria)
aus & Hottinger 1986	Sirtina	50	96	% Santonian-Campanian	%	%	%	Tethys
ottinger & Caus 1993	Sirtina	50		% Late Campanian-Maastrichtian	%	- ŵ	%	100/10
ittinger & Caus in press	Sirtina	orbitoidiformis	Brönnimann & Wirz	38 %	TUR	EFP	fig 1	Gercus, Turkey
ottinger & Caus in press	Sirtina	orbitoidiformis	Brönnimann & Wirz	38 %	TUR	FFP	fig 4	Gercus, Turkey
ottinger & Caus in press	Sirtina	orbitoidiformis	Brönnimann & Wirz	31 %	FRA	EFP	fig. 5	Saintes SW France
ottinger & Caus in press	Sirtina	orbitoidiformis	Brönnimann & Wirz	38 Early Maestrichtian	TUR	EFP	1(1-13)	Gercus SW Turkey
ottinger & Caus in press	Sirtina	betica	n. sp.	32 Late Maestrichtian	ESP	EFP		Sierra de Arguena, Betic Cordillieras, SE Spair
ottinger & Caus in press	Sirtina	betica	n.sp.	32 Late Maestrichtian	ESP	EFP	pl.2, fig.1-9 pl.3, fig.1-9	Siena de Arguena, Betic Conditienas, SE Spain
	Sirtina	orbitoidiformis	n. sp.		TUR	EEP	pr.5, iig.1+8	
an 1996a an 1996b	Sirtina	orbitoidiformis	76 Doženia 1991	38 Maestrichtian	TUR	EFP	<u> </u>	Koyulhisar-Sivas
	Sirtina	orbitoidiformis	Brönnimann	38 Maastrichtian 56 Santonian-Early Maastrichtian		EFP	*	Turkey
eblich & Tappan 1988		sp.	Brönnimann & Wirz		IRN		76	l'an
eblich & Tappan 1988	Sirtina	sp.	Brönnimann & Wirz	31 Santonian-Early Maastrichtian	FRA	EFP	%	France
eblich & Tappan 1988	Sirtina	sp.	Brönnimann & Wirz	18 Santonian-Early Maastrichtian	LBY	AFP	8	Libya
beblich & Tappan 1988	Sirtina	orbitoidiformis	Brönnimann & Wirz	18 Early Maastrichtian	LBY	AFP	735(9)	subsurface, Sirte Basin, Cyrenaica, Libya
beblich & Tappan 1988	Sirtina	granulata	(Rahaghi)	31 Santonian	FRA	EFP	735(10-12)	France
oeblich & Tappan 1988	Sirtina	granulata	(Rahaghi)	56 Campanian	IRN	EFP	736(1-6)	Iran
oeblich & Tappan 1988	Sirtina	orbitoidiformis	Brönnimann & Wirz	56 Maastrichtian	IRN	EFP	736(7-11)	Fan
lavrik as et al. 1994	Sirtina	sp.	%	36 Late Maastrichtian	GRC	EFP	%	Ori Vattou
lavrik as et al. 1994	Sirtina	sp.	%	36 Late Maastrichtian	GRC	EFP	%	Ori Valtou
teric & Coruh 1991	Sirtina (Iranites)	omata	(Rahaghi)	38 Middle-Late Maastrichtian	TUR	EFP	%	Celikli well, NW Siirt, SE Anatolia
zcan 1993	Sirtina	orbitoidiformis	Brönnimann & Wirz	38 Late Campanian-Maastrichtian	TUR	EFP	Fig.4;I	Alidami section
zcan 1993	Sirtina	orbitoidiformis	Brönnimann & Wirz	38 Middle-Late Maastrichtian	TUR	EFP	%	Turkey
zcan & Özkan-Altiner 1997	Sirtina	so.	%	38 Maastrichtian	TUR	EFP	%	near Sarideginnen village, 10 km NW of Haymana
zcan & Özkan-Altiner 1997	Sirtina	sp.	%	38 Maastrichtian	TUR	EFP	%	500 m SE of the Kartalkaya Hill
zcan & Özkan-Altiner 1997	Sirtina	sp.	%	38 Maastrichtian	TUR	EFP	%	SW of Havmana
zcan & Özkan-Altiner 1999b	Sirtina	cf. orbitoidi form is	%	38 Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
zcan & Özkan-Altiner 1999b	Sirtina	cf. orbitoidiformis	%	38 Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
zcan & Özkan-Altiner 1999b	Sirtina	cf. orbitoidi form is	96	38 Maestrichtian	TUR	EFP	×.	Cide area (NW Black Sea coast)
zcan & Özkan-Altiner 1999b	Sirtina	cf. orbitoidiformis	%	38 Maastrichtian	TUR	FFP	w w	Cide area (NV/ Black Sea coast)
zcan & Özkan-Altiner 1999b	Sirtina	cf. orbitoidiformis	96	38 Maastrichtian 38 Maastrichtian	TUR	EFP	<u>«</u>	Cide area (NW Black Sea coast)
zcan & Özkan-Altiner 1999b	Sirtina	cf. orbitoidi formis	96 96	38 Maastrichtian	TUR	EFP	N N	Cide area (NW Black Sea coast)
ahaghi 1976	Neumannites	aranulata	n. sp.	56 Campanian	IRN	FFP	2(12-22)	région de Kermanshah
ahaghi 1976	Iranites	omatus	n. sp.	56 Campanan %	IRN	FFP	3(1-10)	legion de Reimansian
anagni 1976 irel 1991		orbitoidiformis	n. sp. Brönnimann & Wirz	36 Vate Maastrichtian	TUR	EFP	0(1-10)	Cide region
	Sirtina		Bronnimann & Wirz				<u>*</u>	
irel 1996 irel 1996	Sirtina Sirtina	orbitoidiformis	*	38 Maastrichtian 38 Meestrichtien	TUR	EFP	%	Haymana basin, S of Ankara
ITEL 1 SHE	ISITINA	orbitoidiformis	%	38 Maastrichtian	II UR	IEFP	1 %	Caldag anticline, Ahirlikuvu village, 4 km W of Haymana town, S of Ankara

Helicorbitoides

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Publication	Genus	Species	Reference	Loc-No	Stratigraphic age	Country	Faunal Povince	Illustration	Site
Bignot & Neumann 1997	Helicorbitoides	longispina	Papp & Küpper	40	Campanian	SIVE	EED.	w w	Stafersvad. Suède méridionale
				40				~~~~	
Bignot & Neumann 1997	Helicorbitoides	voigti	van Gorsel	40	Campanian	SWE	EFP	× ×	Bâstad, Suède méridionale; 56 25 N, 12 51 E
Bignot & Neumann 1997	Helicorbitoides	voigti	van Gorsel	40	%	SWE	EFP	fig. 5-7	Bâstad, Scanie, Suède
Bignot & Neumann 1997	Helicorbitoides	longispiralis	Papp & Küpper	40	%	SWE	EFP	fig. 8	Stafersvad, Scanie, Suède
Brönnimann 1955	Pseudorbitoides	longispiralis	Papp & Küpper	59	Early Maastrichtian	AUT	EFP	%	Silberegg, Guttaring-Klein St. Paul, Kämten, Austria
Loeblich & Tappan 1988	Helicorbitoides	sp.	Macgillavry	59	Late Campanian	AUT	EFP	%	Austria
Loeblich & Tappan 1988	Helicorbitoides	sp.	Macgillawry	40	Late Campanian	SIME	EFP	%	Sweden
Loeblich & Tappan 1988	Helicorbitoides	sp.	Macgillavry	58	Late Campanian	CHE	EFP	%	Switzerland
Loeblich & Tappan 1988	Helicorbitoides	longispiralis	(Papp & Küpper)	40	Late Campanian	SWE	EFP	740(4,6)	S. Sweden
Loeblich & Tappan 1988	Helicorbitoides	longispiralis	(Papp & Küpper)	59	Late Campanian	AUT	EFP	740(5)	Silberegg Steinbruch, Austria
Neumann 1993	Helicorbitoides	longispiralis	%	59	Campanian	AUT	EFP	%	Silberegg I, Alpes Camiques
Neumann 1993	Helicorbitoides	Iongispiralis	%	59	Campanian	AUT	EFP	%	Région de Vienne
Papp 1954	Pseudorbitoides	longispiralis	Papp & Küpper	59	Campanian	AUT	EFP	1(1)	Silberegg SW of Guttaring, Kärnten
Papp 1955a	Pseudorbitoides	longispiralis	Papp & Küpper	59	Campanian	AUT	EFP	Abb. 1, fig.1	Silberegg
Papp 1955b	P seudorbitoides	longispiralis	%	59	Campanian	AUT	EFP	%	S Guttaring Silbereag
Papp & Küpper 1953b	Pseudorbitoides	longispiralis	n.sp.	59	Campanian	AUT	EFP	2(3)	Silberegg Steinbruch
Sirel 1995	Helicorbitoides	boluensis	n.sp.	38	Late Campanian	TUR	EFP	1(1-11); 2(1-11)	Mendenler village, NE of Bolu city, NW Turkey
Sirel 1995	Helicorbitoides	voiqti	van Gorsel	40	Late Campanian	SWE	EFP	%	Sweden
Sirel 1995	Pseudorbitoides	longispiralis	Papp & Küpper	59	Campanian	AUT	EFP	%	Austria
van Gorsel 1973b	Helicorbitoides	longispiralis	(Papp & Küpper)	40	early Late Campanian	SIVE	EFP	1(1); 4(1-4)	small quarry near hamlet of Stafversvad, 20 km NE of Kristianstad, province of Scania
van Gorsel 1973b	Helicorbitoides	voigti	n.sp.	40	early Late Campanian	SWE	EFP	1(2-4); 2(1-3); 3(2-6)	Malen guarry near Bastad, province of Hallanc
van Gorsel 1973b	Helicorbitoides	sp.	%	31	Late Campanian	FRA	EFP	· · · · · · · · · · · · · · · · · · ·	Aubeterre section, Charente
Wannier 1983	Helicorbitoides	longispiralis	%	58	Campanian	CHE	EFP	%	Niesengipfel

Hellenocyclina

Publication	Genus	Species	Reference	Loc-tio	Stratigraphic age	Country	Faunal Province	Illustration	Site
Azema et al. 1979	Hellenocydina	beotica	Reichel	32	Maastrichtian	ESP	EFP	41(21)	Calarejos (Sierra del Segura)
Barattolo & Schiattarella (IT)	Hellenocyclina	beotica	*	35	Maastrichtian Paleocene?	ITA	EFP.	*	Gapri
Caus & Hottinger 1986	Hellenocydina	sp.	%	5	Santonian-Campanian	%	%	%	Tethys
Dupeuble et al. 1972	Hellenocyclina	beotica	Reichel	31	late Maastrichtian	FRA	EFP	1(1,2)	Larcan et Gorges de la Save (Haute-Garonne)
Dupeuble et al. 1972	Hellenocydina	beotica	Reichel	57	late Maastrichtian	NLD	EFP	1(3,5,6)	carrière ENCI, Maastricht
Dupeuble et al. 1972	Hellenocydina	beotica	Reichel	57	late Maastrichtian	NLD	EFP	1(4); 2(1-12)	Curfs près Maastricht
Dupeuble et al. 1972	Hellenocydina	beotica	Reichel	31	late Maastrichtian	FRA	EFP	1(7)	Gorges de la Save (Haute-Garonne)
Dupeuble et al. 1972	Hellenocyclina	beotica	Reichel	31	late Maastrichtian	FRA	EFP	1(8-10)	Larcan (Haute-Garonne)
Fleury et al. 1985	Hellenocydina	sp.	Reichel	15	Campanian?-Maastrichtian	MAR	AFP	%	Morocco
leury et al. 1985	Hellenocydina	sp.	Reichel	5	Campanian?-Maastrichtian	%	EFP	%	western and southern Europe
leury et al. 1985	Hellenocyclina	sp.	96	57	Maastrichtian	NLD	EFP	%	Maastricht
leury et al. 1985	Hellenocydina	sp.	%	32	Maastrichtian	ESP	EFP	%	southern Spain
leuryet al. 1985	Hellenocyclina	sp.	%	31	Maastrichtian	FRA	EFP	%	Pyrenees, France
Fleury et al. 1985	Hellenocydina	sp.	%	58	Maastrichtian	CHE	EFP	%	Switzerland

pramovich et al. 2002	Fig. 1	%	%	vielleicht identisch mit "Operculina cretadea Reuss" in Hofker 1962, figs.1,3,4
ot & Neumann 1997	%	Dictyopsella	%	sous les noms de "Miscellanea (et/ou Siderolites)
				miscella Haine & d'Archiac'
not & Neumann 1997	%	%	%	%
önnimann & Wirz 1962	%	%	glauconitic limestones, calcisitites and silty marks, middle to outer shelfal wate	type species; Pan American International Oil
				Company's well A-1, depth: 6470 ft
önnimann & Wirz 1962	%	%	inner shelfal, probably littora	Esso Sitte's well Raguba E7-20, core no. 5, depth: 5704 ft
önnimann & Wirz 1962	%	%	shelfal, possibly middle to outer shel	Esso Libya's well Zetten C10-6, core no. 8, depth: 7815-7845 ft
ius 1988	%	%	Carbonate platform, deeper protected shelf (40-60 m); reefs, shoals and bars	%
us 1988	%	%	open marine shelt	%
us et al. 1996	%	Orbitoides, Lepidorbitoides	%	%
us & Hottinger 1986	%	96	%	%
ttinger & Caus 1993	%	Lepidorbitoides, Hellenocyclina	96	%
ttinger & Caus in press	%	%	%	%
ttinger & Caus in press	%	%	%	%
tinger & Caus in press	%	%	%	%
ttinger & Caus in press	%	%	%	%
ttinger & Caus in press	%	%	cemented carbonate rock	%
ttinger & Caus in press	%	%	cemented carbonate rock	%
an 1996a	Fig. 1	%	Limestone: Back reef	%
an 1996b	%	Laffitteina aff. marsicana. Orbitoides medius. Omphalocylus macroporus	%	*
eblich & Tappan 1988	%		96	%
eblich & Tappan 1988	96		**************************************	%
eblich & Tappan 1988				
eblich & Tappan 1988	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	96	
eblich & Tappan 1988	a contraction of the second se			Type species of Neumannites
eblich & Tappan 1988	06		~	Type species of Neumannites
eblich & Tappan 1988	~	~	04	Specimens described as Iranites omatus, type species of Iranite:
avrikas et al. 1994	Fig. 1	Siderolites, Pseudedomia, Orbitoides, Lepidorbitoides, Hellenocyclina	limestones with large rudists; plate-forme externe	opeditions deal local de names en la de, type apedies de name.
avrikas et al. 1994	Fig. 1	P seudedomia, Orbitoides	limestones with large rudists; plate-forme externe	2
eric & Coruh 1991	Fig. 1 Fig. 1	Orbitoides (apiculatus, medius), Omphalocyclus macroporus, Lepidorbitoides	minestones with arge rounds, pare-torme externe %	
she e coran roon	119.1	(socialis, cf. minor), Clypeorbis mamillata, Sulcoperculina sp., Cuneolina sp.	,	, · · · · · · · · · · · · · · · · · · ·
tcan 1993	%	Orbitnides	sandy bioclastic carbonate	~
tcan 1993	10	Orbitoides, Siderolites, Omphalocyclus, Lepidorbitoides, Loftusia	sandy bioclastic carbonate	2°
can & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Omphalocyclus, Eepidorbitoides, Eolidas Orbitoides, Lepidorbitoides, Omphalocyclus, Siderolites, Hellenocyclin	bioclastic horizon; shallow water	70 W
zcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Omphalocyclus, Siderbites, Hellenboyclin Orbitoides, Lepidorbitoides, Omphalocyclus, Siderbites, Hellenboyclin	vell-cemented sandstone horizon; deep-marine shale	20
adam a Ozkan-Admer 1997	rig. i	Orbitoldes, Eepidobitoldes, Omphalocyclus, Siderdites, Heirenbcychin	grades into the turbiditic shale marle and carbonate:	26
0 Ö-li 07 4007		Ophilian I wilder had de Lacharla Complete with Olders the University		~
zcan & Özkan-Altiner 1997 zcan & Özkan-Altiner 1999b	Fig. 1	Orbitoides, Lepidorbitoides, Loftusia, Omphalocyclus, Siderolites, Hellenocyclin	nodular, friable limy sandstone and sandy limestone beds; shallow vate	70
	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Lepidorbitoides	76	A. mayaroensis zone
can & Özkan-Altiner 1999b can & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Lepidorbitoides, Clypeorbis		A. mayaroensis zone
	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Lepidorbitoides, Clypeorbis, Hellenocyclina	100 Ye	A. mayaroensis zone
can & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Lepidorbitoides, Clypeorbis, Hellenocyclina		A. mayaroensis zone
can & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Lepidorbitoides, Hellenocyclina	10 10 10 10 10 10 10 10 10 10 10 10 10 1	A. mayaroensis zone
can & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Lepidorbitoides, Hellenocyclina	%	A. mayaroensis zone
haghi 1976	%	%	%	synonym of Sittina
haghi 1976	%	%	%	synonym of Sittina
el 1991	Fig. 1	Siderolites, Omphalocyclus, Hellenocyclina, Lepidorbitoides, Orbitoides	light gray limestone, green and dark red siltstone, tuffit intercalation	%
el 1996	Fig. 1	Loftusia, Siderolites, Hellenocyclina, Orbitoides, Lafftteina	Sandstone, sandy limestone, argillaceous limestone	×
el 1996	Fig. 1	Omphalocyclus, Siderolites, Hellenocyclina, Orbitoides, Laffitteina	limestone: shallow vater	%

Helicorbitoides

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Bignot & Neumann 1997	%	96	%	déjà connue en Suisse et en Autriche
Bignot & Neumann 1997	%	%	%	inconnue ailleurs
Bignot & Neumann 1997	%	%	%	%
Bignot & Neumann 1997	%	%	%	%
Brönnimann 1955	%	96	%	type species
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	96	36	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Neumann 1993	%	96	%	%
Neumann 1993	%	%	%	%
Papp 1954	%	Siderolites, Orbitoides	%	%
Papp 1955a	%	%	%	%
Papp 1955b	Abb. 1	Orbitoides (tissoti, media), Siderolites vidali	Sandstein und Mergel	%
Papp & Küpper 1953b	%	96	%	holotypus
Papp & Küpper 1953b Sirel 1995	%	Orbitoides tissoti, Nummofallotia sp.	%	%
Sirel 1995	%	96	96	%
Sirel 1995	%	%	%	type species
van Gorsel 1973b	Page 275	%	%	%
van Gorsel 1973b	Page 275	%	96	%
van Gorsel 1973b	Page 275	%	%	%
Wannier 1983	%	Orbitoides tissoti	%	Phylozone à Orbitoides tissoti

Hellenocyclina

Publication	Loc-Descr		Association	Lithology and Facies	Remarks
Azema et al. 1979		%	%	%	%
Barattolo & Schiattarella (IT)		¥.	Siderolites	whitish sub-crystalline-limestones	Internet article
Caus & Hottinger 1986		%	%	%	%
Dupeuble et al. 1972	Page 3		%	%	%
Dupeuble et al. 1972	Page 3		%	36	%
Dupeuble et al. 1972	Page 3		96	%	%
Dupeuble et al. 1972	Page 3		96	36	%
Dupeuble et al. 1972	Page 3		Siderolites calcitrapoides	%	%
Fleury et al. 1985		%	%	%	%
Fleury et al. 1985		%	%	%	%
Fleury et al. 1985	Fig. 4		96	36	%
Fleury et al. 1985	Fig. 4		96	%	%
Fleury et al. 1985	Fig. 4		96	36	%
Fleury et al. 1985	Fig. 4		96	96	I % I

Fleury et al. 1985	Hellenocydina	sp.	%	37	Maastrichtian	YUG	EFP	1		%	Yougoslavie
Fleury et al. 1985	Hellenocydina	sp.	96	56	Maastrichtian	IRN	EFP			%	l'an
Fleury et al. 1985	Hellenocyclina	sp.	%	15	Maastrichtian	MAR	AFP			%	Morocco
Hanzawa 1962	Hellenocydina	beotica	Reichel	%	%	%		%	1(12)		%
Hanzawa 1962	Hellenocyclina	sp.	Reichel	56	restricted to Maastrichtian	%	F	EFP		%	Europe
Hottinger & Caus 1993	Hellenocydina	sp.	%	%	late Campanian-Maastrichtian	%		%		%	%
Inan 1996a	Hellenocydina	beotica	%	38	Maastrichtian	TUR	EFP			%	Koyulhisar-Sivas
Loeblich & Tappan 1988	Hellenocydina	sp.		36	Maastrichtian	GRC	EFP			%	Greece
Loeblich & Tappan 1988	Hellenocyclina	sp.	Reichel	31	Maastrichtian	FRA	EFP			%	France
Loeblich & Tappan 1988	Hellenocydina	sp.	Reichel	57	Maastrichtian	NLD	EFP			%	Netherlands
Loeblich & Tappan 1988	Hellenocydina	beotica	Reichel	36	Maastrichtian	GRC	EFP	-	741(1-3)		Greece
Loeblich & Tappan 1988	Hellenocydina	beotica	Reichel	31	Campanian	FRA	EFP		741(4-6)		France
Mavrikas et al. 1994	Hellenocydina	beotica	Reichel	36	late Maastrichtian	GRC	EFP				Ori Vattou
Meric et al. 1997	Hellenocydina	beotica	Reichel	38	Maastrichtian	TUR	EFP				SE of Sereflikochisar, Tuzgölü Basin, Central Anatolia
Özcan & Özkan-Altiner 1997	Hellenocydina	sp.	%	38	Maastrichtian	TUR	EFP			%	Haymana Basin
Özcan & Özkan-Altiner 1997	Hellenocyclina	sp.	%	38	Maastrichtian	TUR	EFP			%	E of Saridegirmen, Haymana Basin
Özcan & Özkan-Altiner 1997	Hellenocydina	sp.	%	38	Maastrichtian	TUR	EFP			%	500 m SE of Kartalkaya Hill
Özcan & Özkan-Altiner 1997	Hellenocyclina	sp.	%	38	Maastrichtian	TUR	EFP				SE of Haymana city
Özcan & Özkan-Altiner 1999b	Hellenocydina	beotica	%	38	Maastrichtian	TUR	EFP			%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Hellenocydina	beotica	%	38	Maastrichtian	TUR	EFP				Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Hellenocydina	beotica	%	38	Maastrichtian	TUR	EFP			%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Hellenocyclina	beotica	%	38	Maastrichtian	TUR	EFP			%	Haymana area (central Anatolia)
Özkan-Altiner & Özcan 1999	Hellenocydina	beotica	%	38	Maastrichtian	TUR	EFP			%	Cide region
Sirel 1991	Hellenocydina	beotica	Reichel	38	late Maastrichtian	TUR	EFP			%	Cide region
Sirel 1996	Hellenocydina	beotica	%	38	Maastrichtian	TUR	EFP			%	Haymana basin, S of Ankara
Sirel 1996	Hellenocyclina	beotica	%	38	Maastrichtian	TUR	EFP			%	Dündarli area, SW of Kayseri, Central Turkey
Sirel 1996	Hellenocydina	beotica	%	38	Maastrichtian	TUR	EFP				Gölköytown, S of Ordu, Northern Turkey
Sirel 1996	Hellenocyclina	beotica	%	38	Maastrichtian	TUR	EFP			%	Peyamli hill, 8 km north of Dündarli town, SVV of Kayseri
Sirel 1996	Hellenocydina	beotica	%	38	Maastrichtian	TUR	EFP			%	Caldag anticline, Ahirlikuyu village, 4 km west of Haymana town, S of Ankara

Lepidorbitoides

Publication	Genus	Species	Reference	Loc-No	Stratigraphic age	Country	Faunal Province	Illustration	Site
Abdelghany 2003	Lepidorbitoides	minor		23	late Campanian-Maastrichtian	OMN	AFP	%	northem Oman Mountains
Abdelghany 2003	Lepidorbitoides	minor	(Schlumberger)	23 23	late Campanian-Maastrichtian	OMN	AFP	fig.10; 9-11; sample 3	northem Oman Mountains
Abdelghany 2003	Lepidorbitoides	minor			late Campanian-Maastrichtian	OMN	AFP	%	northern Oman Mountains
Aguilar et al. 2002	Lepidorbitoides	minima		52	Campanian	MEX	CEP.	4	Çardenas
Aguilar et al. 2002	Lepidorbitoides	campaniensis			Campanian		EFP	1	Aubeterre
Aguilar et al. 2002	Lepidorbitoides	pembergeri		59	Campanian		EFP	1	Pembergeniegel
Aguilar et al. 2002	Lepidorbitoides	bisambergensis			Maastrichtian		EFP	1	Bisamberg
Aguilar et al. 2002	Lepidorbitoides	minor	%		Maastrichtian		EFP	1	Maastricht
Aguilar et al. 2002	Lepidorbitoides	socialis	%	31	Maastrichtian		EFP	1	Larcan, S France
Aguilar et al. 2002	Lepidorbitoides	minima	%	52	late Campanian		CEP-	2(1-4);3(1-5)	Gardenas
Arni 1933	Lepidorbitoides	paronai	Silvestri		Maastrichtian	GRC	EFP	%	Pindos
Ayala Castanares 1963	Lepidorbitoides	minima	Douvillé	3	late Campanian	MEX	GEP-	%	right side ofroad Carretera Panamericana, de México a Tuxtla Gutiérrez, ca 3.9 km vor Tuxtla Gutiérrez
Ayala Castanares 1963	Lepidorbitoides	minima	Douvillé	3	late Campanian	MEX	GFP-	%	nismo afloramiento que Muestra Ay 109 57; 5 metros más alta estratigráficamente
Azema et al. 1979	Lepidorbitoides	sp.			Maastrichtian	ESP	EFP	38(2)	Sierra de la Arguena (Prebetic)
Azema et al. 1979	Lepidorbitoides	sp.	%		Maastrichtian		EFP	40(1)	Sierra Seca (Internal Prebetic)
Azema et al. 1979	Lepidorbitoides	sp.	%	32	Maastrichtian	ESP	EFP	39(1)	Sierra de Arguena (Prebetic)
Bignot 1972	Lepidorbitoides	minor			late Maastrichtian		EFP FFP	% %	Le Nanos; La Vipavska dolina et sa bordure septentrionale
Bignot 1972	Lepidorbitoides	socialis			late Maastrichtian			×	Le Nanos; La Vipavska dolina et sa bordure septentrionale
Bignot 1972	Lepidorbitoides	sp.	%		Maastrichtian		EFP		Le Sabotin; La Vipavska dolina et sa bordure septentrionale
Bignot 1972 Bignot 1972	Lepidorbitoides Lepidorbitoides	cf. minor cf. minor	76 07		Maastrichtian late Maastrichtian		EFP EFP	17(3) %	Les lambeaux de tysch de Kalise, au N de Postojna; Le Bassin de la Pivka Elam Edit du Namae, actual la Martin Environte La Carabilitation batta
Bignot 1972 Bratu 1975		ct. minor minor	%		late Maastrichtian Maastrichtian	ROM	EFP	17(3) %	Flanc SW du Nanos, entre le Mont Brzin et la Sembijska bajta 18 km NW de la ville de Piatra Neamt
	Lepidorbitoides		%			ROM	EFP	× ×	
Bratu 1975 Brönnimann 1954b	Lepidorbitoides Lepidorbitoides	socialis	76		Maastrichtian Maastrichtian	CUB	CED	70	18 km NW de la ville de Piatra Neamt Santa Clara (Las Villas) Province, and Camaqücy Province, Cuba
Brönnimann 1954b	Lepidorbitoides	su.	76		Maastrichtian	CUB	CFP	70	santa ciara (Las villas villas) Frovince, and cantaguo y Frovince, cluba southern Santa Clara
Brönnimann 1954b	Lepidorbitoides	sp. sp.	76		waastrichtian voungest Cretaceous		CFP	70	soumern Santa Clara peninsular Florida
Brönnimann 1954b	Lepidorbitoides	spp.	70	4	youngest cretateous Senonian to Danian-Montian	CUB	CFP	70	peninsular nuncia Oriente Province
Brönnimann 1958b	Lepidorbitoides	sup.	70		late Cretaceous		EFP	×	Orlane Frovince Glades County, Florida
	Lepidor atoides	sµ.	76	2	late cretadeous	USA	CL h	×	oraces county, Fronta
Brönnimann 1958b	Lepidorbitoides	sp.	96	2	Cretaceous	USA	EFP	%	Glades County, Florida
				-					
Busulini et al. 1984	Lepidorbitoides	cf. socialis	(Leymerie)	72	late Maastrichtian	ITA	EFP	%	Sovana. Sardinia
Butterlin 1967	Lepidorbitoides	minima	Douvillé	52	Maastrichtian (late?)	MEX	CFP-	%	Route Rayon Tamasopo (État de san Luis Potosi)
Butterlin 1967	Lepidorbitoides	minor	(Schlumberger)	36	late Maastrichtian	GRC	EFP	%	du col d'altitude 860m à Kedronas. Grèce
Butterlin 1967	Lepidorbitoides	sp.	%	60	late Maastrichtian		EFP	%	Chemin Kato Gramatikon à Ano Gramatikon, à la cote 1030m (Province d'Édessa, Macédoine)
Butterlin 1992	Lepidorbitoides	sp.	%	67	Campanian-Maastrichtian	USA	CFP	%	forage au sud d'Hawaii (Leg 17, Site 165 A)
Butterlin 1992	Lepidorbitoides	bisambergensis	%		middle Maastrichtian	NRU	CFP	%	fosse de Nauru (Leg 61, Site 462, sections 48.1 et 48.2)
Butterlin 1992	Lepidorbitoides	minor	%	50	middle Maastrichtian	NRU	CFP	%	fosse de Nauru (Leg 61, Site 462, sections 48.1 et 48.2)
Butterlin 1992	Lepidorbitoides	socialis			middle Maastrichtian	NRU	CFP	%	fosse de Nauru (Leg 61, Site 462, sections 48.1 et 48.2)
Butterlin 1992	Lepidorbitoides	socialis		50	middle Maastrichtian	NRU	CFP	1(1)	Leg 61-Loc.462-48 soup.
Caudri 1944	Lepidorbitoides	cf. planasi		10	Midway (Paleocene)?	VEN	CFP	%	foot of Morro with lighthouse; San Juan de los Morros, State of Guarico, Venezuela
Caudri 1944	Lepidorbitoides	cf. planasi			Midway (Paleocene)?	VEN	CFP	2(10)	South slope of Morro de la Puerta; San Juan de los Morros, State of Guarico, Venezuela
Caudri 1944	Lepidorbitoides	cf. planasi	M.G. Rutten		Midway (Paleocene)?	VEN	CFP	3(14)	Small Morro N/V, comer valley, San Juan de los Morros, State of Guarico, Venezuela
Caudri 1944	Lepidorbitoides	sp. ind.			Midway (Paleocene)?	VEN	CFP	3(16)	Small Morro MV, comer valley, San Juan de los Morros, State of Guarico, Venezuela
Caudri 1944	Lepidorbitoides	cf. planasi			Midway (Paleocene)?	VEN	CFP	%	1 km. N. 50 E. from the hotel; San Juan de los Morros, State of Guarico, Venezuela
Caudri 1944	Lepidorbitoides				Midway (Paleocene)?	VEN	CFP	%	1 km. SE. of Granja; San Juan de los Morros, State of Guarico, Venezuela
Caudri 1944	Lepidorbitoides	cf. planasi			Midway (Paleocene)?	VEN	CFP	1(3)	Eastward along strike from G.91; San Juan de los Morros, State of Guarico, Venezuela
Caudri 1944	Lepidorbitoides	cf. planasi			Midway (Paleocene)?	VEN	CFP	%	15 km. from San Juan on the road to San Sebastian; San Juan de los Morros, State of Guarico, Venezuela
Caudri 1944	Lepidorbitoides	cf. planasi			Paleocene	TTO MEX	CFP CEP	% ~	Point Bontour, near San Fernando, Trinidad, B.W.I.
Caudri 1944	Lepidorbitoides	minima			Masshichtian	MEX.	CEP.	l *	Mexico Control
Caudri 1944	Lepidorbitoides	minima	H. Douvillé		Masshichtian			*	Cuba
Caudri 1944 Caudri 1944	Lepidorbitoides Lepidorbitoides	planasi rutteni	M.G. Rutten Thiadens		Maastrichtian Maastrichtian	CUB CUB	CFP	[%]	Cuba Cuba
Caudri 1944 Caudri 1944	Lepidorbitoides	rutteni var. armata	Thiadens		Maastrichtian	CUB	CFP	20	Cuba
Caudri 1944 Caudri 1944	Lepidorbitoides	palmeri	Thiadens		Maastrichtian	CUB	CFP	20	Cuba
Caudri 1944 Caudri 1944	Lepidorbitoides	macqillavryi	Thiadens		Maastrichtian	CUB	CFP	200	Cube Cube
Caudri 1948	Lepidorbitoides	cf. planasi	Rutten		early Eccene	BRB	CEP	73(1)	Cube Barbados
Caudri 1948	Lepidorbitoides	cf. planasi			Paleocene or early Eocene	VEN	CFP	73(2)	balueuus Truillo, Venezuela
Caudri 1946 Caudri 1948	Lepidorbitoides	cf. planasi			raleocene or early bocene late Eocene		CFP	73(9)	Ingino, venezuera Point Bontour, Trinidad
Caudri 1946 Caudri 1948	Lepidorbitoides	cf. planasi			Paleocene		CFP	73(11)	Ponic Bonica, Innicaa near San Juan de Jos Morros, Guárico, Venezuela
	le classica de la construcción d	Lass from many	h	(***		1.0014		L = Z + Z	

Internet of Apon	less a	~	~	
	Fig. 4	26	76	%
Fleury et al. 1985	Fig. 4	%	%	96
Fleury et al. 1985	Fig. 4	%	%	%
Hanzawa 1962	%	%	%	%
Hanzawa 1962	%	%	%	Type species: Hellenocyclina beotica
Hottinger & Caus 1993	%	Sirtina, Lepidorbitoides	%	%
Inan 1996a	Fig. 1		Limestone, clayey limestone, sandy limestone; Tidal - Back ree	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	96
Loeblich & Tappan 1988	%	96	96	%
Loeblich & Tappan 1988	%	%	96	%
Loeblich & Tappan 1988	%	%	96	described as H, charentensis Freudenthal
Mavrikas et al. 1994	Fig. 1	Siderolites, Pseudedomia, Orbitoides, Lepidorbitoides, Sirtina	limestones with large rudists; plate-forme externe	%
Meric et al. 1997	%	Loftusia, Orbitoides, Omphalocyclus, Lepidorbitoides, Siderolites	%	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Omphalocyclus, Siderolites, Loftusia, Sirtina	sitstone-sandstone and carbonate and bioclastic limestone horizonts; shallow water	96
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Omphalocyclus, Siderolites, Sirtina	bioclastic horizont; shallow water	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Omphalocyclus, Siderclites, Sirtina	well-cemented sandstone horizon; graduation from deep-marine into turbiditic	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Loftusia, Siderolites, Sirtina, Omphalocyclus	nodular, friable limy sandstone and sandy limestone beds	%
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis, Lepidorbitoides	%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fia. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis, Legidorbitoides	%	A, mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis, Lecidorbitoides	96	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Lepidorbitoides	96	A. mayaroensis zone
Özkan-Altiner & Özcan 1999	Fig. 1	Abathomphalus mavaroensis	%	%
Sirel 1991	Fig. 1	Siderolites, Sirtina, Omphalocyclus, Lepidorbitcides, Orbitoides	light gray limestone, green and dark red sittstone, tufft intercalation	%
Sirel 1996	Fig. 1	Loftusia, Siderolites, Laffitteina, Orbitoides, Sirtina	Sandstone, sandy limestone, argillaceous limestone	%
Sirel 1996	Fig. 1	Omphalocyclus, Siderolites, Loftusia, Orbitoides, Laffitteina	Sandy limestone, Marl, argillaceous limestone	%
Sirel 1996	Fig. 1	Siderolites, Omphalocyclus, Orbitoides	limestones	%
Sirel 1996	Fig. 1	Loftusia, Siderolites, Laffitteina, Orbitoides, Omphalocyclus	limestone; shallow water	%
Sirel 1996	Fig. 1	Omphalocyclus, Siderolites, Laffitteina, Orbitoides, Sirtina	limestone: shallow water	%
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b Özkan-Altiner & Özcan 1999 Sirel 1991 Sirel 1996 Sirel 1996 Sirel 1996	Fig. 1 Fig. 1 Fig. 1 Fig. 1 Fig. 1	Orbitolices, Siderolites, Omphalocyclus, Sitrina, Chypeorhis, Lecidorbitoldes Orbitolices, Siderolites, Omphalocyclus, Sitrina, Lepidorbitoldes Abathomphalus mavaroereis Siderolites, Sirtina, Omphalocyclus, Lepidorbitoldes, Orbitoldes Lotusia, Siderolites, Lottiteia, Orbitoldes, Lafifteine Omphalocyclus, Siderolites, Lottusia, Orbitoldes, Lafifteine Siderolites, Omphalocyclus, Siderolites, Johnson, Siderolites, Simphalocyclus, Siderolites, Siderolite	Sandstone, sandy limestone, argillaceous limestone Sandy limestone, Marl, argillaceous limestone limestones	A. mayaroensis zone

Lepidorbitoides

Loc-Descr. Fig. 1	Association	Lithology and Facies	Remarks
	Loftusia, Orbitoides, Omphalocydus	limestone, pink limestone	96
			~
Fig. 1			*
Fig. 1	Orbitoides	Imestone	
Fig. 1	%	%	%
%	%	%	96
%	%	%	%
%	%	96	96
96	00	~	~
~	~	~	<i>2</i>
70	70	70	70
Fig.1		%-	<u>%</u>
%	Siderolites (heradeae, calctrapoides), Orbitoides (media, apiculata)	%	96
Page 61	Orbitoides, Sulcoperculina, P seudorbitoides	gravas de color pardo amarillento	ausführliche Lokalität im Text
Page 62			<u>ac</u>
1 ugo 02			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
70			70
76			76
%	Sulcoperculina, Siderolites, Orbitoides	terrigenous biomicritic limestone (packstone),	%
		irregularly recrystallized; open carbonate platform facies	
Fig. 48.49	Orbitoides, Omphalocyclus		%
Fig. 48.49			
	Urptoldes, Siderolites		*
			%
Fig. 48,49	Orbitoides	calcaire biodétritique spathique	%
%	Orbitoides (media, apiculata)	%	%
%		%	
+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	9/2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10°	~	<i>*</i>
%	76	<b>%</b>	<u>**</u>
96	%	%	%
%	%	%	%
Page 429	P seudorbitoides	nomus limestone	well cutting, Coastal Petroleum Company No.1,
i ugo izo		porter interaction	T 42 s - R33 E - Sec. 25; Depth: 5735 ft
D = == 420	Culos and the Decudent State of State Versebusian		
Page 429	Sucopercuina, Pseudorbitoides, Orbitoides, Vaugnanina	cream white microcoduinoid calcilutite	well cutting, Coastal Petroleum Company No.1,
			T 42 s - R33 E - Sec. 25; Depth; below:5800 ft
Fig. 2	Siderolites calcitrapoides, Orbitoides apiculata, Clypeorbis marrillata	galets des conglomérats	%
*	Sulcoperculina	<u>%</u>	<u>%</u>
96	Orbitaides, Omobelacyclus, Sulcaperculine, Sideralites	ac.	96
~		~	~
70		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10
USUP		36	78
DSDP	Orbitocyclina, Asterorbis, Sulcoperculina, P seudorbitoides, Vaughanina	96	zone à Globotruncana gansseri
DSDP	Orbitocyclina, Asterorbis, Sulcoperculina, P seudorbitoides, Vaughanina	%	zone à Globotruncana gansseri
ID SDP	Orbitocyclina Astemptis Sulcoperculina Piseudorbitoides Vaudhanina	%	zone à Globotruncana gansseri
96	<b>%</b>	46	46
70	70	70 Description of Stability For a strategy of constraints because the second sec	20
<b>%</b>			Alter fraglich
%			Atter fraglich
%	Discocyclina, Atheoocyclina, Ranikothalia	P seudo-oölithic limestone (grey to brownish-grey recrystellized)	Alter faglich
%			After faglich
%			Atter fraglich
e e e e e e e e e e e e e e e e e e e			Atter fraglich
20			
%			Alter fraglich
%		Pseudo-oölithic limestone (grey to brownish-grey recrystellized)	Atter fraglich
%	Discocyclina, Athecocyclina, Hexagonocyclina, Ranikothalia	algal reeflimestone blocks	ALTER ???
34			36
20			
~		~~	~
1 %		<b>%</b>	*
%		%	%
%	Orbitoides, Pseudorbitoides, Vaughanina, Omphalocydus, ?Meandropsina, ?Camerina, Operculina	%	%
%		96	%
%		9 <u>7</u>	04 04
20 Care 4040; e 507	orbitologs, Pasodonistatos, Vaugnarinita, Ompinalotydus, (Meanuropsina, Peaneinita, Opercultat	70	70
Senn 1940: p.587	%	%	%
	96	96	%
76			
%	%	%	reworked specimen derived from the Paleocene
	Page 51 77 Page 52 % % % % % % % % % % % % %	Fig. 1     Orbitides       Fig. 1     Orbitides       Fig. 1     Suboperculina (globosa, dickersori), Vaughaniad -(-oubsteis, Globofuncera (atca, limeiana)       Fig. 4     Suboperculina (globosa, dickersori), Vaughaniad -(-oubsteis, Globofuncera (atca, limeiana)       Fig. 4     Suboperculina, Pasudotibidades       Fig. 4     Orbitides, Suboperculina, Pasudotibidades       Fig. 4, 4, 4     Orbitides, Suboperculina, Pasudotibidades       Fig. 4, 4, 4     Orbitides, Orbitides, Orbitides       Fig. 4, 4, 4     Orbitides, Orbitides, Orbitides       Fig. 4, 4, 4     Orbitides, Orbitides       Fig. 4, 4, 4     Orbitides, Orbitides       Fig. 4, 4, 4     Orbitides, Orbitides       Fig. 4, 5, 4     Orbitides, Orbitides       Fig. 4, 4, 4     Orbitides, Orbitides       Fig. 4, 5, 4     Orbitides, Orbitides       Fig. 4, 4, 4     Orbitides, Orbitides       Fig. 4, 5, 4     Orbitides, Orbitides       %     Suboperculina, Suboperculina, Siderotites       Fig. 4, 3, 4     Orbitides, Mala, apiculata)       %     %       %     %       %     %       %     %       %     Orbitides, Orbitides, Vaughanina       Fig. 2     Suboperculina, Suboperculina, Suboperculina, Suboperculina, Suboperculina, Suboperculina, Suboperculina, Suboperculina, Pasudotitides, Vaughanina </td <td>Pin 1     Ordelades     Institute       Pag-1     Second     Second     Second       Second     Second     Second     Second       Fig 1     Subconsultine (globosa, datemani), Vaughanian calcereris), Obtoinunase (ana, timetana)     Second       Fig 1     Subconsultine (globosa, datemani), Vaughanian calcereris), Obtoinunase (ana, timetana)     Second       Fig 2     Obtointe, Subconsultine (globosa, datemani), Vaughanian calcereris), Obtoinunase (ana, timetana)     Second       Page 10     Obtointe, Subconsultine (globosa, datemani), Vaughanian calcereris), Obtointe, Secondo parto envaluence (ana secondo date data data secondo date     Secondo data data data data data data data da</td>	Pin 1     Ordelades     Institute       Pag-1     Second     Second     Second       Second     Second     Second     Second       Fig 1     Subconsultine (globosa, datemani), Vaughanian calcereris), Obtoinunase (ana, timetana)     Second       Fig 1     Subconsultine (globosa, datemani), Vaughanian calcereris), Obtoinunase (ana, timetana)     Second       Fig 2     Obtointe, Subconsultine (globosa, datemani), Vaughanian calcereris), Obtoinunase (ana, timetana)     Second       Page 10     Obtointe, Subconsultine (globosa, datemani), Vaughanian calcereris), Obtointe, Secondo parto envaluence (ana secondo date data data secondo date     Secondo data data data data data data data da

Caudri 1948	Lepidorbitoides	sp.	%	13	early Eocene			73(4)	Barbados
Caudri 1948 Caudri 1948	Lepidorbitoides Lepidorbitoides	sp.	%	10	Paleocene or early Eocene Maestrichtian	VEN	CFP	74(2) 74(6)	Trujillo, Venezuela near Guaduas, Cundinamarca, Colombia
Caus 1988	Lepidorbitoides	sp.	%	32	Campanian, Maastrichtian	ESP	EFP	×(0) %	Pyrenean basin
Caus 1988	Lepidorbitoides	sp.	%	32	Campanian, Maastrichtian	ESP	EFP	%	Pyrenean basin
Caus & Hottinger 1986	Lepidorbitoides	sp.	%	%	Santonian-Campanian	%	% EEP	%	formas cosmopolitas
Caus et al. 1988 Caus et al. 1988	Lepidorbitoides Lepidorbitoides	socialis so.	76 or	31	Maastrichtian Maastrichtian	FRA	EFP	70 9	Saint Marcet area (S France) Larcan (S France)
Caus et al. 1988	Lepidorbitoides	sp.	%	31	Maastrichtian		EFP		Gensa (S France)
Causetal. 1988	Lepidorbitoides	bisambergensis	%	32	Maastrichtian	ESP	EFP	%	Tremp
Causet al. 1988	Lepidorbitoides	sp.	%	57	Maastrichtian		EFP	%	Maastricht
Caus et al. 1996 Caus et al. 1996	Lepidorbitoides Lepidorbitoides	sp. bisambergensis	%	59	late Campanian late Maastrichtian		EFP	% %	Pemberger, Carinthia Maastricht
Causet al. 1996	Lepidorbitoides	socialis	%	31	middle-late Maastrichtian		EFP	~	Northern Pyrenean
Causetal. 1996	Lepidorbitoides	socialis	%	31	late Maastrichtian	FRA	EFP	%	Gensac (France), zw. Bordeaux und Bergerac
Causet al. 2002	Lepidorbitoides	minima	Douvillé	52	middle late Campanian		GEP-	1(1,2)	Cárdenas Basin; San Luis Potosí, NE Mexico
Dilley 1973 Ferràndez-Canadell 2000	Lepidorbitoides	sp. minor	Silvestri (Schlumberger)	<u>%</u>	Campanian-Maastrichtian	% NLD	EFP %	4(7) %	N America, Central America, N Europe, S Europe, S USSR, India Ency Quarry, Maastricht
Fleury et al. 1985	Lepidorbitoides Lepidorbitoides	sp.	(Salialiberger)	57	Maastrichtian Campanian-Maastrichtian	NLD %	CFP %	4(7) %	circy sutarity, measurch
Fleury et al. 1985	Lepidorbitoides	sp.	%	33	Maastrichtian	DEU	EFP	%	orthem Germany
Fleury et al. 1985	Lepidorbitoides	sp.	%	18	Maastrichtian		AFP	%	Libya
Fleury et al. 1985	Lepidorbitoides	sp.	%	25	Maastrichtian		AFP	%	Vemen
Fleuryet al. 1985 Fleuryet al. 1985	Lepidorbitoides Lepidorbitoides	sp. sp.	%	29 42	Maastrichtian Maastrichtian		AFP ASP	% *	Madagascar S Russia
Fleury et al. 1985	Lepidorbitoides	sp.	%	46	Maastrichtian	PAK	ASP	l %	Pakistan
Fleury et al. 1985	Lepidorbitoides	sp.	%	44	Maastrichtian	IND	ASP		SIndia
Fleury et al. 1985	Lepidorbitoides	sp.	%	47	Maastrichtian	IDN	ASP	%	Borneo
Fleury et al. 1985	Lepidorbitoides	sp.	%	65	Maastrichtian	PHL	ASP	%	Philippines?
Fleury 1977 Fleury et al. 1990	Lepidorbitoides Lepidorbitoides	sp.	%	36	late Cretaceous Maastrichtian		EFP	% pl. Fig.3	coupe de Vítina, Griechenland Monts Valtou, Gavrovo-Tripolitza (Griechenland)
Fleury et al. 1990 Fleury et al. 1990	Lepidorbitoides	sp. sp.	70 96	36 74	**************************************		EFP	pi. Fig.3 %	Monts Valtou, Gavrovo-Inpolitza (Griecheniand) Youdoslavie secteritionale
Fleury et al. 1990	Lepidorbitoides	sp.	%	38	×	TUR	EFP	- ~	Turquie centrale
Fleury et al. 1990	Lepidorbitoides	sp.	%	37	%	YUG	EFP	%	Serbie occidentale
Fleury et al. 1990	Lepidorbitoides	sp.	%	36	%		EFP	%	Grèce orientale
Fleury et al. 1990 Fleury et al. 1990	Lepidorbitoides	sp.	%	38 28	×	TUR SYR	EFP AFP	[%]	Taurus oriental
Fleury et al. 1990 Fleury et al. 1990	Lepidorbitoides Lepidorbitoides	sp. sp.	%	28 24	%	QAT	AFP	%	Syne Qatar
Fleury et al. 1990	Lepidorbitoides	sp.	%	25	w.	YEM	AFP		
Fleury et al. 1990	Lepidorbitoides	sp.	%	26	%	SOM	AFP	%	Somalie
Goldbeck unpubl.	Lepidorbitoides	sp.	%	32	Santonian		EFP	%	Tremp area
Gowda 1964	Lepidorbitoides	blanfordi inornata	Rao Rao	44	Maastrichtian Maastrichtian		ASP ASP	*	Trichinopoly district, near the village of Kallacurchi Trichinopoly district, near the village of Kallacurchi
Gowda 1964 Haon 1971	Lepidorbitoides Lepidorbitoides	bisambergensis	(Jaeger)	33	late Campanian		EFP	4(2)	Trichinopoly district; near the village of Kallacurchi Blaue Wand, Traun-Profil, östliches Oberbavern
Hagn 1971	Lepidorbitoides	sp.	%	33	late Campanian	DEU	EFP	%	Geröll von Almagmach, SW Immenstadt, Allgäu
Hanzawa 1962	Lepidorbitoides	socialis	(Leymerie)	31	%	FRA	EFP	1(1,2)	Gensac, Haute Garonne, France
Hanzawa 1962	Lepidorbitoides	minor	(Schlumberger)	56	%	%	%	1(3-6)	%
Hanzawa 1962 Hanzawa 1962	Lepidorbitoides Lepidorbitoides	minor socialis	(Schlumberger) (Leymerie)	55 24	%	% FRA	% FFP	1(7) 4(5)	% St. Mardt, Haute Garonne, France
Hanzawa 1962	Lepidorbitoides	socialis	(Leymene)	31	%		EFP	8(2)	Servaci, naute Garune, France
Hanzawa 1962	Lepidorbitoides	sp.	Silvestri	- %	%	%	%	%	%
Hanzawa 1962	Lepidorbitoides	minor	(Schlumberger)	- 5	Maastrichtian	%	%	%	%
Hashimoto 1982 Hashimoto 1982	Lepidorbitoides Lepidorbitoides	minor	(Schlumberger)	65	Cretaceous	PHL	ASP	% %	Pinugay Hill
Hashimoto 1982 Hashimoto 1982	Lepidorbitoides	sp. minor	96	65	Cretaceous Cretaceous	PHL	ASP	% %	Barrios Lutak and Pandan, Central Cebu N of Bato, SE Catanduanes
Hashimoto et al. 1978b	Lepidorbitoides	sp.	%	65	Cretaceous	PHL	ASP	%	hear the Pandan High School, Bo. Pandan.; on the Naga-Uling Road; Cebu
Hashimoto et al. 1978a	Lepidorbitoides	sp.	%	65	Paleocene	PHL	ASP	%	Pinugay Hill, Tanay, Rizal, Central Luzon
Hashimoto et al. 1978a	Lepidorbitoides	minor	(Schlumberger)	65	?Cretaceous-Paleocene?	PHL	ASP	8(1-3, 7,10)	Pinugay Hill, Tanay, Rizal, Central Luzon
Hashimoto et al. 1978a	Lepidorbitoides	sp.	%	65	?Cretaceous-Paleocene?	PHL	ASP	15(4)	Pinugay Hill, Tanay, Rizal, Central Luzon
Hashimoto & Matsumaru 1981 Hashimoto & Matsumaru 1984	Lepidorbitoides Lepidorbitoides	sp.	(Schlumberger) %	65	late Maastrichtian %	PHL	ASP	15(4) %	5 km north of Bato, southeastern Luzon Barrios Lutak & Pandan, Pandan Valley, Central Cebu
Hashimoto & Matsumaru 1984	Lepidorbitoides	minor	%	65	Maastrichtian	PHL	ASP		orth of San Miguel, Catanduanes
Hofker 1966	Lepidorbitoides	minor	%	57	Dano-Maastrichtian	NLD	EFP	%	nine shaft Maurits III (49)(p.214)
Hofker 1966	Lepidorbitoides	minor	%	57	Paleocene, Dano-Maastrichtian	NLD	EFP	<u>%</u>	drill-hole Geleen-Zuid, S.M. XV (65)(p.276;fig.134)
Hottinger & Caus 1993 Ion 1975	Lepidorbitoides Lepidorbitoides	sp. minor	%	30	late Campanian-Maastrichtian early Maastrichtian	% ROM	% FFP	% ~	% Risnov
lon 1975	Lepidorbitoides	socialis	%	41	early Maastrichtian		EFP	8	Risnov
lon 1975	Lepidorbitoides	socialis	%	41	late Maastrichtian	ROM	EFP	%	Risnov
Kureshy 1977	Lepidorbitoides	socialis	(Leymerie)	46	late Campanian - early Maastrichtian	PAK	ASP	%	Murree Brevery, Baluchistan
Kureshy 1977 Kureshy 1977	Lepidorbitoides Lepidorbitoides	socialis	(Leymerie) (Leymerie)	46	late Campanian - early Maastrichtian Campanian	PAK PAK	ASP ASP	2	Hamai, Baluchistan Hamai, Baluchistan
Kureshy 1977 Kureshy 1977	Lepidorbitoides	minor	(Leymene) de Cizancourt	46	early Maastrichtian	PAK	ASP ASP	8	Hamai, Baluchistan Harrai, Baluchistan
Kureshy 1980	Lepidorbitoides	socialis	(Leymerie)	46	Campanian-Maastrichtian	PAK	ASP	%	Pakisan
Kureshy 1980	Lepidorbitoides	minor	de Cizancourt	46	Campanian-Maastrichtian		ASP	%	Pakistan
Kureshy 1980	Lepidorbitoides	minor	%	21	Cretaceous	BHS	CFP	%	Bahama Island
Loeblich & Tappan 1988 Loeblich & Tappan 1988	Lepidorbitoides Lepidorbitoides	sp. sp.	Silvestri Silvestri	59 31	Campanian-Maastrichtian Campanian-Maastrichtian	AUT FRA	EFP EFP	% *	Austria France
Loeblich & Tappan 1988	Lepidorbitoides	sp. sp.	Silvestri	35	Campanian-Maastrichtian		EFP	×	i fance Italy
Loeblich & Tappan 1988	Lepidorbitoides	sp.	Silvestri	58	Campanian-Maastrichtian	CHE	EFP		Switzerland
Loeblich & Tappan 1988	Lepidorbitoides	sp.	Silvestri	38	Campanian-Maastrichtian	TUR	EFP	8	Turkey
Loeblich & Tappan 1988	Lepidorbitoides	schencki	Brönnimann	56	Maastrichtian		EFP	741(9-12)	Iran
Loeblich & Tappan 1988 Mavrikas et al. 1994	Lepidorbitoides Lepidorbitoides	socialis sp.	(Leymene) %	36	late Maastrichtian late Maastrichtian	FRA	EFP	742(1-6)	coast of Ternes-Saint Marcet, Dept. Haute Garonne, France
McGowran 1968	Lepidorbitoides	sp.	%	46	Maastrichtian		EFP	%	Sind, West Pakistan
McGowran 1968	Lepidorbitoides	sp.	%	64	Senonian to Maastrichtian	MYS	ASP		Sarawak (Borneo), Western Pacific; 2 0 N, 1130 E
Meric & Coruh 1991	Lepidorbitoides	socialis	(Leymerie)	38	middle-late Maastrichtian	TUR	EFP	%	Celikli well (NW Siirt, SE Anatolia)
								~	
Meric & Coruh 1991	Lepidorbitoides	cf. minor	(Schlumberger)	აშ	middle-late Maastrichtian	TUR	EFP	%	Celikli vell (NV Siirt, SE Anatolia)
Meric et al. 1997	Lepidorbitoides	sp.	%	38	Maastrichtian	TUR	EFP	%	Sereflikochisar (Central Anatolia-Turkey)
	Lepidorbitoides	sp.	%	44	Maastrichtian	IND	ASP	2(3)	Trichinopoly district; 10°49' N, 78°42' E
Nagappa 1959		minima	Dowillé	194	late Campanian	ERA	EEP.	2(3)	environs d'Aubeterre (Charente), route de Chalais
Neumann 1972	Lepidorbitoides			<del></del>					
Neumann 1972 Neumann 1972	Lepidortitoides	minima	Douvillé	32 32	late Campanian	ESP	EFP	2(6)	Montesch
Neumann 1972			Douvillé	31-		ESP FRA	EFP.		Monteach près de Brosse

Bath of moles         Second of s		In	1		
Description		Senn 1940: p.587	%	**************************************	
PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE PACTURE P	Caudii 1948	%	%		
BALL         BALL         BALL         BALL         BALL         BALL           BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BALL         BA	Caugh 1948	76	76	70	76 V
Data Lange         Data Lange         And Market         And Market         And Market           Data Lange         And Market         And Market         And Market         And Market           Data Lange         And Market         And Market         And Market         And Market           Data Lange         And Market         And Market         And Market         And Market           Data Lange         And Market         And Market         And Market         And Market           Data Lange         And Market         And Market         And Market         And Market           Data Lange         And Market         And Market         And Market         And Market           Data Lange         And Market         And Market         And Market         And Market           Data Lange         And Market         And Market         And Market         And Market           Data Langet         And Market         And Market         And Market         And Market           Data Langet         And Market         And Market         And Market         And Market           Data Langet         And Market         And Market         And Market         And Market           Data Langet         And Market         And Market         And Market <td< td=""><td></td><td>70</td><td>70</td><td></td><td>70</td></td<>		70	70		70
Disk         Disk <thdisk< th="">         Disk         Disk         <thd< td=""><td>Caus 8 Hottinger 1986</td><td>70</td><td>76 9(</td><td>oper manne sten</td><td>70</td></thd<></thdisk<>	Caus 8 Hottinger 1986	70	76 9(	oper manne sten	70
Date of the second se	Causet al. 1988	%	Gansserina gansseri	offshore to foreshore	%
Date of the second s		%	Gansserina gansseri		96
Currie 100         Currie 100 <thcurrie 100<="" th="">         Currie 100         Currie 1</thcurrie>	Caus et al. 1988	%	Gansserina gansseri	%	%
Part of the second	Caus et al. 1988	%	Orbitoides (apiculata, sp), Siderolites calcitrapoides	%	%
Band By     Set By     All and a set By     <		%	Gansserina gansseri	%	%
band prof.         band p		%	Orbitoides, Sirtina	%	%
		%		%	%
		%	Orbitoides, Siderolites, Omphalocyclus	%	%
Description         Description         Note         Note         Note         Note           Description         Note         Not	Causet al. 1996	%	Orbitoides, Siderolites	%	*
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>			Sulcoperculina, Vaughanina, Orbitoides	open marine environment with terrigenous input	**
	Dilley 1973 Exercised on Consider 2000	Table 2	%		% 
	Flaury et al. 1985	70	Orbitotdes (apiculata, gruenbachensis)	70	70
	Fleury et al. 1985	Fig. 3	90 90		
		Fig. 3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	Fleury et al. 1985	Fig. 3	%	96	96
Part of Sing         Part of Sing<		Fig. 3	%	36	%
Part of Sing	Fleury et al. 1985	Fig. 3	%	%	%
Part of Sing	Fleury et al. 1985	Fig. 3	%	%	%
	Fleury et al. 1985	Fig. 3	%	%	%
	Fleury et al. 1985	Fig. 3	%	%	%
Part of 100         No         No         No         No         No           Part of 100         No         No <td></td> <td>i⊧ig. 3</td> <td>%</td> <td>%</td> <td>%</td>		i⊧ig. 3	%	%	%
Part of 100         No         No         No         No         No           Part of 100         No         No <td>Fleury 1977</td> <td>IFIQ.1</td> <td>Orbitoides</td> <td>%</td> <td>*</td>	Fleury 1977	IFIQ.1	Orbitoides	%	*
Part of 100         No		r ig. 1	Lonusa	% ~	% or
Part of 1970         No         No         No         No         No           Part of 1970         No         No </td <td></td> <td>×</td> <td>76 av</td> <td>76</td> <td>76 or</td>		×	76 av	76	76 or
Part of 100         No.         No. <th< td=""><td>Fleury et al. 1990 Fleury et al. 1990</td><td>70</td><td>76</td><td>76</td><td>70</td></th<>	Fleury et al. 1990 Fleury et al. 1990	70	76	76	70
Part of 1950         No.         No. <t< td=""><td>Fleury et al. 1990</td><td></td><td>%</td><td>%</td><td>ý,</td></t<>	Fleury et al. 1990		%	%	ý,
Part of 1900         No.         No. <t< td=""><td>Fleury et al. 1990</td><td></td><td></td><td>%</td><td>w w</td></t<>	Fleury et al. 1990			%	w w
Part of 1900         No	Fleury et al. 1990	%	%	w w	%
Purcha         No.	Fleury et al. 1990	%	96	%	%
Conde of the second	Fleury et al. 1990	%	%	%	%
Doods Price         Price Price         Manual Rescue         Note Price         N	Fleury et al. 1990	%	%	%	%
Cond 1910         Pag 20         United State Conduction         S         S         S           Cond 1910         Pag 20         United State Conduction         S         S         S           Pag 20         Viet State Conduction         S         S         S         S           Page 20         Viet State Conduction         S         S         S         S           Page 20         S         S         S         S         S         S           Page 20         S         S         S         S         S         S         S           Page 20         S         S         S         S         S         S         S           Page 20         S         S         Cond S         S         S         S         S           Page 20         S         S         Cond S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S	Goldbeck unpubl.	%	%	%	%
Han 1911         Pag 21         Obtainer, Source Outwacedus         Sou	Gowda 1964	Page 305	Nummofallotia, Orbitocyclina, Siderolites	96	%
base 1971         Pag 20         Obtain Selection Selection Contained as a selection of select	Gowda 1964	Page 305	Nummofallotia, Orbitocyclina, Siderolites		*
Name         Name <th< td=""><td>Hagn 1971</td><td>Page 20</td><td>Orbitoldes, Siderolites</td><td>70 m</td><td>**</td></th<>	Hagn 1971	Page 20	Orbitoldes, Siderolites	70 m	**
Number 1920         No.         No. <th< td=""><td></td><td>Page 20</td><td>Orbitoides, Siderointes, Omphaiocyclus</td><td>70</td><td>70</td></th<>		Page 20	Orbitoides, Siderointes, Omphaiocyclus	70	70
Instant S12 Norme S12 N	Hanzawa 1962	70	76	70	70
interesting in the second se		~			70
Hame 162         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N<		%	20 96		
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Harpool 18/2         %         Optimization 18/2         %         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S		%	%		Type species: Orbitolites socialis
instance 1982         %         Cardraburghan samparen (Paddrabade Plandraburghan samparen (Paddrabade Plandraburghan samparen (Plandraburghan samparen (Pl		%	%	96	Syn: Orbitoides minor
Instruction 192         %         Operation of a marked of a	Hashimoto 1982	%	Omphalocyclus macroporus, Pseudorbitella or Pseudorbitoides, Sulcoperculina?	%	%
Instruction at 1978         1649, 12         Objection at 1978         1649, 12         Objection at 1978         Objection		07	On the law of the second second	94	~
Instruction of al STR0         TS40         TS4		70		76	76
Induition of all 1788         Induition all 1788         Indu		%	Omphalocyclus macroporus	%	70 %
Induition of all 1978         Disfs (1-3)         Onephatopolity (includios / Pauliados data)         Induition of all 1978         Disfs (1-3)         Complex (includios / Pauliados data)           Hamilton of all 1978         No         Onephatopolity (includios / Pauliados data)         primeting all patients of all 1978         Status data)         Status data)           Hamilton of all 1978         No         Onephatopolity (includios pauliados data)         primeting all patients of all 1978         Status data)         Status data) </td <td>Hashimoto et al. 1978b</td> <td></td> <td>Omphalocyclus macroporus</td> <td>70 96 96</td> <td>% % Globotruncana lapparenti, G . sp.</td>	Hashimoto et al. 1978b		Omphalocyclus macroporus	70 96 96	% % Globotruncana lapparenti, G . sp.
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Induition 3 Matsum 198         %         Opplaucodum corporus         %         Opplaucodum corporus         %         Opplaucodum corporus         %           Induitod 3 Matsum 198         %         0n 198         %         %         %         %         %           Induitod 3 Matsum 198         %         0n 198         %         %         %         %         %           Induitod 3 Matsum 198         %         0n 198         %         %         %         %         %           Induitod 3 Matsum 198         %         0n 198         %         0n 198         %         %         %           Induitod 3 Matsum 198         %         0n 198         %         0n 198         %         %         %           Induitod 3 Matsum 198         %         0n 198         0n 198         %         %         %           Induitod 3 Matsum 198         %         0n 198         0n 198         %         %         %           Induitod 3 Matsum 198         %         0n 198         0n 198         %         %         %         %           Induitod 3 Matsum 198         %         0n 198         0n 198         %         %         %         %         %         % <td< td=""><td>Hashimoto et al. 1978b Hashimoto et al. 1978a Hashimoto et al. 1978a</td><td>Txt-fig. 1-3 Txt-fig. 1-3</td><td>Omphalocydus marcporus Omphalocydus Omphalocydus Omphalocydus, Orbtoldes, Pseudorbtoldes, Siderolfes</td><td>sharpstone-bearing conglomeratic sst.</td><td>reworked specimens Globotruncana lapparenti, G. sp.</td></td<>	Hashimoto et al. 1978b Hashimoto et al. 1978a Hashimoto et al. 1978a	Txt-fig. 1-3 Txt-fig. 1-3	Omphalocydus marcporus Omphalocydus Omphalocydus Omphalocydus, Orbtoldes, Pseudorbtoldes, Siderolfes	sharpstone-bearing conglomeratic sst.	reworked specimens Globotruncana lapparenti, G. sp.
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McCovan 1868         %         %         %         %         %         %         %           Meric & Corul 1991         Fig.1         Orbitoides (apiculatus, medius), Omphalocyclus marcroprus, Clypeorbis mamilata, Sucoperculina sp., Stinta (trainites) ormata         %         %         %         %           Meric & Corul 1991         Fig.1         Orbitoides (apiculatus, medius), Omphalocyclus marcroprus, Clypeorbis mamilata, Sucoperculina sp., Stinta (trainites) ormata         %         %         %           Meric & La 1997         %         Sucoperculina sp., Stinta (trainites) ormata         %         %         %           Nagaga 1959         Page 178         Siderolites         Siderolites         %         %         %           Naumann.1972,4         %         %         %         %         %         %           Naumann.1972,4         %         %         %         %         %         %	Hashimoto et al. 1976b           Hashimoto et al. 1976a           Hashimoto et al. 1976a           Hashimoto & Matsumaru 1984           Hofker 1986           Hofker 1987           Hofker 1987           Kureshy 1987           Kureshy 1987           Kureshy 1987           Kureshy 1980           Kureshy 1980           Kureshy 1980           Loebich & Tappan 1988	Txt-fig. 1-3 Txt-fig. 1-3 Page 64 % % Fig. 1-3 Fig. 1 Fig. 1 S % % % % % %	Omphalocyclus         %           Omphalocyclus         %           Omphalocyclus         Statistics           Omphalocyclus         Ontoxides           Omphalocyclus         Ontoxides           Omphalocyclus         Statistics           Omphalocyclus         Ontoxides           Omphalocyclus         Statistics           Omphalocyclus         %           Strina         Helerocyclus           Orbitolies         %           Orbitolies         %           Orbitolies         %           Orbitolies         %           Orbitolies         Strina           Orbitolies         Steria           Orbitolies         Steria           Orbitolies         Steria           Orbitolies         Steria           Orbitolies         Steria           Orbitolies         Orbitolies           Orbitolies         Orbitolies           Orbitolies         Orbitolies           Orbitolies         Omphalocyclus           Orbitolies         Omphalocyclus           Orbitolies         Omphalocyclus           Steria         %           Stero         %           Stero<	tharpstone-bearing congioneratic sst. there is the stone-bearing congioneratic sst. array line stone grey line stone  Carbonate facies hard massive, splintly, light brown in color; Carbonate facies hard massive, splintly, light brown in color; Carbonate facies S S S S S S S S S S S S S S S S S S S	revorked specimens Globotruncana lapparenti, 0, sp. Globotruncana
Meric & Corul 1991     Fig. 1     Orbitolice (apiculatus, medius), Omphalocyclus manuflata, Meric & Corul 1991     %       Meric & Corul 1991     Fig. 1     Orbitolice (apiculatus, medius), Omphalocyclus mararoprus, Clypeortils manuflata, Sucoperculina sp., Cureolina sp., Sintina (Innihes) ornata     %       Meric et al. 1937     %     %       Meric et al. 1937	Hashimoto et al. 1976b Hashimoto et al. 1976a Hashimoto et al. 1976a Hashimoto et al. 1976a Hashimoto al. 41976a Hashimoto al. 404sunaru 1981 Hashimoto & Matsumaru 1984 Hashimoto & Matsumaru 1984 Hottoger & Gaue 1993 Ion 1975 Ion 1975 Kureshy 1977 Kureshy 1977 Kureshy 1977 Kureshy 1977 Kureshy 1977 Kureshy 1977 Kureshy 1980 Kureshy 1980 Loebidh & Tappan 1989 Loebidh & Tappan 1988 Loebidh & Tappan 1988	Txt-fig. 1-3 Txt-fig. 1-3 Txt-fig. 1-3 Page 64 % % Fig. 1 Fig. 1	Omphalocyclus morporus           Omphalocyclus, Orbitolides, Pseudorbitoldes, Siderolites           Omphalocyclus, Orbitolides, Pseudorbitoldes, Siderolites           Omphalocyclus, Orbitoldes, Pseudorbitoldes, Siderolites           Omphalocyclus, Orbitoldes, Pseudorbitoldes, Siderolites           Omphalocyclus morporus           Sector           Orbitoles, Bread, apiculata, tissoti), Siderolites calcitrapoide           Orbitoles, Biderolites, Omphalocyclus           Orbitoles, Siderolites, Calcitrapoide           Orbitoles, Siderolites, Omphalocyclus, Subcepticulina           Orbitoles, Siderolites, Omphalocyclus, Subcepticulina           Orbitoles, Siderolites, Omphalocyclus, Subcepticulina           Orbitoles, Siderolites, Subcepticulina           Orbitoles, Omphalocyclus, Siderolites, Subcepticulina <t< td=""><td>tharpstone-bearing conglomeratic sst. transporter-bearing conglomeratic sst. transporter-bearin</td><td>reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk Sk</td></t<>	tharpstone-bearing conglomeratic sst. transporter-bearing conglomeratic sst. transporter-bearin	reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk
Marce & Corul 1991         Stacoperculance sp. Curceline sp. Statine (franties) ornata         %           Meric & Corul 1991         Stacoperculance sp. Statine (franties) ornata         %           Meric & La 1937         %         %         %           Nagapor 1953         Page 178         Steorotte         %           Naumann 1972,         %         %         %           Naumann 1972,         %         %         %           Naumann 1972,         %         %         %	Hashimoto et al. 1976b           Hashimoto et al. 1976a           Hashimoto et al. 1976a           Hashimoto & Matsumaru 1981           Hofter 1986           Hofter 1975           Lon 1975           Lon 1975           Lon 1975           Lon 1975           Lower 1987           Kureshy 1977           Kureshy 1977           Kureshy 1977           Kureshy 1980           Kureshy 1980           Kureshy 1980           Loeblich & Tappan 1988           L	Txt-fig. 1-3 Txt-fig. 1-3 Txt-fig. 1-3 Page 64 % % Fig. 1 Fig. 1	Omphalocyclus morporus           Omphalocyclus, Orbitolides, Pseudorbitoldes, Siderolites           Omphalocyclus, Orbitolides, Pseudorbitoldes, Siderolites           Omphalocyclus, Orbitoldes, Pseudorbitoldes, Siderolites           Omphalocyclus, Orbitoldes, Pseudorbitoldes, Siderolites           Omphalocyclus morporus           Sector           Orbitoles, Bread, apiculata, tissoti), Siderolites calcitrapoide           Orbitoles, Biderolites, Omphalocyclus           Orbitoles, Siderolites, Calcitrapoide           Orbitoles, Siderolites, Omphalocyclus, Subcepticulina           Orbitoles, Siderolites, Omphalocyclus, Subcepticulina           Orbitoles, Siderolites, Omphalocyclus, Subcepticulina           Orbitoles, Siderolites, Subcepticulina           Orbitoles, Omphalocyclus, Siderolites, Subcepticulina <t< td=""><td>tharpstone-bearing conglomeratic sst. transporter-bearing conglomeratic sst. transporter-bearin</td><td>reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk Sk</td></t<>	tharpstone-bearing conglomeratic sst. transporter-bearing conglomeratic sst. transporter-bearin	reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk
Merics Corul 1991         Fig. 1         Orbidiols (spiculatus, medius), Omphalocydus marroporus, Cypeordis mamilata, Sudcoperculina sp., Cureolina sp., Sittina (tranites) ornata         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         % <td>Hashimoto et al. 1976b Hashimoto et al. 1976a Hashimoto et al. 1976a Hashimoto et al. 1976a Hashimoto &amp; Matsumaru 1981 Hashimoto &amp; Matsumaru 1984 Hashimoto &amp; Matsumaru 1984 Hashimoto &amp; Matsumaru 1984 Hofker 1986 Hofker 1986 Hofker 1986 Hofker 1987 Kureshy 1977 Kureshy 1977 Kureshy 1977 Kureshy 1977 Kureshy 1980 Kureshy 1980 Kureshy 1980 Loebidh &amp; Tappan 1988 Loebidh &amp; Tappan 1988 Modovan 1965</td> <td>Txt-tg. 1-3 Txt-tg. 1-3 Txt-tg. 1-3 Page 64 6 6 7 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8</td> <td>Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles         %           Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles            Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles            Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles            Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles            Omphalocyclus macroporus         %           Omphalocyclus macroporus         %           Ortstolace (media, apiculat, tisort), Siderolles calditapiole            Ortstolace, Siderolles, Omphalocyclus, Sulcoperculna            Ortbioles, Siderolles, Omphalocyclus, Sulcoperculna            Ortbioles, Omphalocyclus, Sulcentes, Sulcoperculna            Ortbioles, Siderolles, Sulcoperculna            Siderolles, Pseudedomia, Ortbioles, Siderolles, Sulcoperculna            Siderolles, Denphalocyclus, Siderolles, Sulcoperculna            Siderolles, Denphalocyclus, Siderolles, Sulcoperculna</td> <td>tharpstone-bearing conglomeratic sst. transporter-bearing conglomeratic sst. transporter-bearin</td> <td>reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk Sk</td>	Hashimoto et al. 1976b Hashimoto et al. 1976a Hashimoto et al. 1976a Hashimoto et al. 1976a Hashimoto & Matsumaru 1981 Hashimoto & Matsumaru 1984 Hashimoto & Matsumaru 1984 Hashimoto & Matsumaru 1984 Hofker 1986 Hofker 1986 Hofker 1986 Hofker 1987 Kureshy 1977 Kureshy 1977 Kureshy 1977 Kureshy 1977 Kureshy 1980 Kureshy 1980 Kureshy 1980 Loebidh & Tappan 1988 Loebidh & Tappan 1988 Modovan 1965	Txt-tg. 1-3 Txt-tg. 1-3 Txt-tg. 1-3 Page 64 6 6 7 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8	Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles         %           Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles            Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles            Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles            Omphalocyclus, Ortstoldes, Pseudorbitoides, Siderolles            Omphalocyclus macroporus         %           Omphalocyclus macroporus         %           Ortstolace (media, apiculat, tisort), Siderolles calditapiole            Ortstolace, Siderolles, Omphalocyclus, Sulcoperculna            Ortbioles, Siderolles, Omphalocyclus, Sulcoperculna            Ortbioles, Omphalocyclus, Sulcentes, Sulcoperculna            Ortbioles, Siderolles, Sulcoperculna            Siderolles, Pseudedomia, Ortbioles, Siderolles, Sulcoperculna            Siderolles, Denphalocyclus, Siderolles, Sulcoperculna            Siderolles, Denphalocyclus, Siderolles, Sulcoperculna	tharpstone-bearing conglomeratic sst. transporter-bearing conglomeratic sst. transporter-bearin	reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk
Image: Substrate of the substrate	Hashimoto et al. 1978b           Hashimoto et al. 1978a           Hashimoto et al. 1978a           Hashimoto et al. 1978a           Hashimoto al. 1978a           Hashimoto al. 1978a           Hashimoto & Matsumaru 1981           Hashimoto & Matsumaru 1984           Hashimoto & Matsumaru 1984           Holker 1986           Holker 1987           Kureshy 1977           Kureshy 1977           Kureshy 1977           Kureshy 1977           Kureshy 1977           Kureshy 1980           Loeblich & Tappan 1988           Marchau al. 1991           Mocoveran 1988           Medoveran 1988	Txt-tg. 1-3 Txt-tg. 1-3 Txt-tg. 1-3 Page 64 6 7 7 7 7 7 7 7 7 7 7 7 7	Omphalocyclus         %           Omphalocyclus         %           Omphalocyclus         Ontablocyclus           Omphalocyclus         Ontablocyclus           Omphalocyclus         Ontablocyclus           Omphalocyclus         Ontablocyclus           Omphalocyclus         Ontablocyclus           Omphalocyclus         Ontablocyclus           Omphalocyclus         Mainter Status           Omphalocyclus         %           Strina, Helenocyclia         %           Strina, Helenocyclia         %           Ortholdes         Siderolites           Siderolites         Siderolites           Siderolites         Siderolites <td>thanpstore-bearing congioneratic sst. thanpstore-bearing congioneratic sst. transformeratic sst. transformeratic</td> <td>reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk Sk</td>	thanpstore-bearing congioneratic sst. thanpstore-bearing congioneratic sst. transformeratic	reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk
Nagago 1953         Page 178         Siderolites         brown impure limestone         %           Naumann 1972-2         %         %         %         %           Naumann 1972-3         %         %         %         %           Naumann 1972-3         %         %         %         %	Hashimoto et al. 1978b           Hashimoto et al. 1978a           Hashimoto et al. 1978a           Hashimoto et al. 1978a           Hashimoto al. 1978a           Hashimoto al. 1978a           Hashimoto & Matsumaru 1981           Hashimoto & Matsumaru 1984           Hashimoto & Matsumaru 1984           Holker 1986           Holker 1987           Kureshy 1977           Kureshy 1977           Kureshy 1977           Kureshy 1977           Kureshy 1977           Kureshy 1980           Loeblich & Tappan 1988           Marchau al. 1991           Mocoveran 1988           Medoveran 1988	Txt-tg. 1-3 Txt-tg. 1-3 Txt-tg. 1-3 Page 64 6 7 7 7 7 7 7 7 7 7 7 7 7	Omphalocyclus, moregorus           Omphalocyclus, Ortstoides, Pseudorbitoides, Sideroites           Omphalocyclus, Ortstoides, Pseudorbitoides, Sideroites           Omphalocyclus, Ortstoides, Pseudorbitoides, Sideroites           Omphalocyclus, Ortstoides, Pseudorbitoides, Sideroites           Omphalocyclus marcporus           Omphalocyclus marcporus           Omphalocyclus marcporus           Sittina, Helenocyclus           Ortstoides, Pseudorbitoides, Sideroites caldinapoide           Ortstoides (media, apiculata, tiscot), Sideroites caldinapoide           Ortstoides, Sideroites, Omphalocyclus, Marcporulina           Ortstoides, Sideroites, Omphalocyclus, Sulcoperculna           Ortstoides, Omphalocyclus, Sideroites, Sulcoperculna           Sideroites, Omphalocyclus, Sideroites, Sulcoperculna           Sideroites, Omphalocyclus, Ortstoides, Helenocyclus, Sita           Sideroites, Omphalocyclus, Ortstoides, Helenocyclus, Sita           Sideroites, Omphalocyclus, Ortstoides, Helenocyclus, Sita           Sideroites, Omphalocyclus           Sideroites, Omphalocyclus, O	thanpstore-bearing congioneratic sst. thanpstore-bearing congioneratic sst. transformeratic	reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk
Nagago 1953         Page 178         Siderolites         brown impure limestone         %           Naumann 1972-2         %         %         %         %           Naumann 1972-3         %         %         %         %           Naumann 1972-3         %         %         %         %	Hashimoto et al. 1976b           Hashimoto et al. 1976a           Hashimoto et al. 1976a           Hashimoto al. Matsumaru 1981           Hashimoto al. Matsumaru 1984           Hofker 1986           Hofker 1987           Kureshy 1987           Kureshy 1987           Kureshy 1987           Kureshy 1980	Txt-tg. 1-3 Txt-tg. 1-3 Txt-tg. 1-3 Page 64 6 7 7 7 7 7 7 7 7 7 7 7 7	Omphalocyclus, moregorus           Omphalocyclus, Ortstoides, Pseudorbitoides, Sideroites           Omphalocyclus, Ortstoides, Pseudorbitoides, Sideroites           Omphalocyclus, Ortstoides, Pseudorbitoides, Sideroites           Omphalocyclus, Ortstoides, Pseudorbitoides, Sideroites           Omphalocyclus marcporus           Omphalocyclus marcporus           Omphalocyclus marcporus           Sittina, Helenocyclus           Ortstoides, Pseudorbitoides, Sideroites caldinapoide           Ortstoides (media, apiculata, tiscot), Sideroites caldinapoide           Ortstoides, Sideroites, Omphalocyclus, Marcporus           Ortstoides, Sideroites, Omphalocyclus, Sudoperculna           Ortstoides, Omphalocyclus, Sideroites, Sudoperculna           Sideroites, Omphalocyclus, Ortstoides, Helenocyclus, Sitia           Sid	thanpstore-bearing congioneratic sst. thanpstore-bearing congioneratic sst. transformeratic	reworked specimens Olobotruncane lapparenti, G. sp. Olobotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Globotruncane lapparenti, G. sp. Sk
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Docan & Oxtan-Athere 1995LepidorbitidesDisambergensis(Jaeger)36MaestrichtanTUREPP(16,7)Cide area (Willack Sea coat)Oxtan & Oxtan-Athere 1995Lepidorbitidesminor%36MaestrichtanTUREPP%Gide area (Willack Sea coat)Oxtan & Oxtan-Athere 1995Lepidorbitidesminor(Schumbergens)86MaestrichtanTUREPP%Gide area (Willack Sea coat)Oxtan & Oxtan-Athere 1995Lepidorbitidessocialis(Laymeine)86MaestrichtanTUREPP1(0,11)Cide area (Willack Sea coat)Oxtan & Oxtan-Athere 1995Lepidorbitidessocialis(Laymeine)86MaestrichtanTUREPP1(0,11)Cide area (Willack Sea coat)Oxtan & Oxtan-Athere 1995Lepidorbitidessocialis(Laymeine)86MaestrichtanTUREPP1(1,1)Cide area (Willack Sea coat)Oxtan & Oxtan-Athere 1995Lepidorbitidessocialis(Laymeine)86MaestrichtanTUREPP1(1,2)Cide area (Willack Sea coat)Oxtan & Oxtan-Athere 1995Lepidorbitidessocialis(Laymeine)86MaestrichtanTUREPP1(1,2)Cide area (Willack Sea coat)Oxtan & Oxtan-Athere 1995Lepidorbitidessocialis(Laymeine)86MaestrichtanTUREPP1(1,2)Cide area (Willack Sea coat)Oxtan & Oxtan-Athere 1995Lepidorbitidessocialis(Laymeine)86MaestrichtanTUREPP1(1,2)	Özcan & Özkan-Altiner 1999b	Lepidorbitoides					EFP	1(1.3)	Cide area (NW Black Sea coast)
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0 zoars & Oxian-Ather 1999b       Lepidorbiticities       socialis       (Leymerk)       35       Mestificitian       TUR       EPP       (1/2)       Cide area (NV Black Sea coad)         0 zoars & Oxian-Ather 1999b       Lepidorbiticities       socialis       (Leymerk)       36       Mestificitian       TUR       EPP       (1/2)       Cide area (NV Black Sea coad)         0 zoars & Oxian-Ather 1999b       Lepidorbiticites       socialis       (Leymerk)       36       Mestificitian       TUR       EPP       (1/2)       Cide area (NV Black Sea coad)         0 zoars & Oxian-Ather 1999b       Lepidorbiticites       standargensis       %       36       Mestificitian       TUR       EPP       %       Cide area (NV Black Sea coad)         0 zoars & Oxian-Ather 1999b       Lepidorbiticites       totale standargensis       %       36       Mestificitian       TUR       EPP       %       Cide area (NV Black Sea coad)         0 zoars & Oxian-Ather 1999b       Lepidorbiticites       totale standargensis       %       36       Mestificitian       TUR       EPP       %       Cide area (NV Black Sea coad)         0 zoars & Oxian-Ather 1999b       Lepidorbiticites       totale standargensis       %       36       Mestificitian       TUR       EPP       1(14)       Cide area (NV Black Se						TUR	EFP		
\black zeroskip in the stand				(Leymerie)			EFP	1(10,11)	
Dozan & Oztan -Attiner 1990b     Lepidorbitoides     socials     Lepidorbitoides     socials     %     Maestichtian     TUR     EPP     1(13)     Cide area (NV Black Sea coad)       Ozan & Oztan -Attiner 1990b     Lepidorbitoides     bisambergensis     %     36     Maestichtian     TUR     EPP     1(13)     Cide area (NV Black Sea coad)       Ozan & Oztan -Attiner 1990b     Lepidorbitoides     bisambergensis     %     36     Maestichtian     TUR     EPP     %     Cide area (NV Black Sea coad)       Ozan & Oztan -Attiner 1990b     Lepidorbitoides     bisambergensis     %     36     Maestichtian     TUR     EPP     1(14)     Cide area (NV Black Sea coad)       Ozan & Oztan -Attiner 1990b     Lepidorbitoides     bisambergensis     %     36     Maestichtian     TUR     EPP     1(14)     Cide area (NV Black Sea coad)       Ozan & Oztan -Attiner 1990b     Lepidorbitoides     bisambergensis     %     36     Maestichtian     TUR     EPP     1(14)     Cide area (NV Black Sea coad)       Ozan & Oztan -Attiner 1990b     Lepidorbitoides     acolals     (Leynete)     36     Maestichtian     TUR     EPP     1(15)     Cide area (NV Black Sea coad)       Ozan & Oztan -Attiner 1990b     Lepidorbitoides     socials     (Leynete)     36     Maestichtian									
Özans ö Özan-Alher 199b         Lepkottbildes         Sicialis         %         36         Mastirchtan         TUR         EPP         %         Cide area (NV Black Sea cost)           Özans ö Özan-Alher 199b         Lepkottbildes         bisnahergensis         %         36         Mastirchtan         TUR         EPP         %         Cide area (NV Black Sea cost)           Özans ö Özan-Alher 199b         Lepkottbildes         bisnahergensis         %         36         Mastirchtan         TUR         EPP         %         Cide area (NV Black Sea cost)           Özans ö Özan-Alher 199b         Lepkottbildes         bisnahergensis         %         36         Mastirchtan         TUR         EPP         %         Cide area (NV Black Sea cost)           Özans ö Özan-Alher 199b         Lepkottbildes         asolalis         (Leymeth)         38         Mastirchtan         TUR         EPP         1(5)         Cide area (NV Black Sea cost)           Özans ö Özan-Alher 199b         Lepkottbildes         asolalis         (Leymeth)         38         Mastirchtan         TUR         EPP         1(5)         Cide area (NV Black Sea cost)           Özans ö Özan-Alher 199b         Lepkottbildes         socialis         (Leymeth)         38         Mastirchtan         TUR         EPP         1(6)								1(13)	
Özana Ažbara-Altiner 1999b     Lepidorthiolides     bisambergensis     %     38     Maestrichtian     TUR     EPP     %     Cide area (NV Black Sea coast)       Özana A Žotan-Altiner 1999b     Lepidorthiolides     bisambergensis     %     38     Maestrichtian     TUR     EPP     %     Cide area (NV Black Sea coast)       Özana A Žotan-Altiner 1999b     Lepidorthiolides     bisambergensis     %     38     Maestrichtian     TUR     EPP     %     Cide area (NV Black Sea coast)       Özana A Žotan-Altiner 199bb     Lepidorthiolides     socials     (Leymete)     38     Maestrichtian     TUR     EPP     %     Cide area (NV Black Sea coast)       Özana AŽbar-Altiner 199bb     Lepidorthiolides     campariensis     %     38     Maestrichtian     TUR     EPP     1(14)     Cide area (NV Black Sea coast)       Özana AŽbar-Altiner 199bb     Lepidorthiolides     campariensis     %     38     Maestrichtian     TUR     EPP     1(15)     Cide area (NV Black Sea coast)       Özana AŽbar-Altiner 199bb     Lepidorthiolides     socials     (Leymete)     38     Maestrichtian     TUR     EPP     1(16,1)     Cide area (NV Black Sea coast)       Özana AŽbar-Altiner 199bb     Lepidorthiolides     socials     (Leymete)     38     Maestrichtian     TUR	Özcan & Özkan-Altiner 1999b	Lepidorbitoides				TUR	EFP	%	Cide area (NW Black Sea coast)
Özsan å Özsan-Athrer 1999b     Lepidorbitoides     bisambergensis     %     38     Maestichtian     TUR     EPP     %     Cide area (NV Black Sea coast)       Özsan å Özsan-Athrer 1999b     Lepidorbitoides     coala is     (Leymeth)     38     Maestichtian     TUR     EPP     1(5)     Cide area (NV Black Sea coast)       Özsan å Özsan-Athrer 1999b     Lepidorbitoides     coana å Özsan-Athrer 1999b     Lepidorbitoides     socials     (Leymeth)     38     Maestichtian     TUR     EPP     %     Cide area (NV Black Sea coast)       Özsan å Özsan-Athrer 1999b     Lepidorbitoides     socials     (Leymeth)     38     Maestichtian     TUR     EPP     1(6,17)     Cide area (NV Black Sea coast)       Özsan å Özsan-Athrer 1999b     Lepidorbitoides     socials     (Leymeth)     38     Maestichtian     TUR     EPP     1(16,17)     Cide area (NV Black Sea coast)       Özsan å Özsan-Athrer 1999b     Lepidorbitoides     socials     (Leymeth)     38     Maestichtian     TUR     EPP     1(16,17)     Cide area (NV Black Sea coast)       Özsan å Özsan-Athrer 1999b     Lepidorbitoides     socials     (Leymeth)     38     Maestichtian     TUR     EPP     1(16,25)     Cide area (NV Black Sea coast)       Özsan å Özsan-Athrer 1999b     Lepidorbitoides     socials <td< td=""><td>Özcan &amp; Özkan-Altiner 1999b</td><td>Lepidorbitoides</td><td>bisambergensis</td><td></td><td>38 Maastrichtian</td><td>TUR</td><td>EFP</td><td></td><td>Cide area (NW Black Sea coast)</td></td<>	Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis		38 Maastrichtian	TUR	EFP		Cide area (NW Black Sea coast)
Özana 3 Özian-Altiner 1999b     Lepidortholicies     apaleine förste     (Leymetie)     38     Mastirchtian     TUR     EPP     1(15)     Cide area (NV Black Sea coast)       Özana 3 Özian-Altiner 1999b     Lepidortholicies     apaleine förste     Sa     Mastirchtian     TUR     EPP     1(5)     Cide area (NV Black Sea coast)       Özana 3 Özian-Altiner 1999b     Lepidortholicies     socialis     (Leymetie)     38     Mastirchtian     TUR     EPP     1(6,17)     Cide area (NV Black Sea coast)       Özana 3 Özian-Altiner 1999b     Lepidortholicies     socialis     (Leymetie)     38     Mastirchtian     TUR     EPP     1(6,17)     Cide area (NV Black Sea coast)       Özana 3 Özian-Altiner 1999b     Lepidortholicies     socialis     (Leymetie)     38     Mastirchtian     TUR     EPP     1(16)     Cide area (NV Black Sea coast)       Özana 3 Özian-Altiner 1999b     Lepidortholicies     socialis     (Leymetie)     38     Mastirchtian     TUR     EPP     1(16)     Cide area (NV Black Sea coast)       Özana 3 Özian-Altiner 1999b     Lepidortholicies     socialis     (Leymetie)     38     Mastirchtian     TUR     EPP     1(19-2)     Cide area (NV Black Sea coast)       Özana 3 Özian-Altiner 1999b     Lepidortholicies     socialis     (Leymetie)     38     Mast	Özcan & Özkan-Altiner 1999b	Lepidorbitoides			38 Maastrichtian	TUR	EFP	1(14)	Cide area (NW Black Sea coast)
Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     carea nive Black Sea coad)       Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     socials     (Leymete)     38     Maastichtian     TUR     EPP     1(6,17)     Cide area (NV Black Sea coad)       Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     socials     (Leymete)     38     Maastichtian     TUR     EPP     1(16,17)     Cide area (NV Black Sea coad)       Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     socials     (Leymete)     38     Maastichtian     TUR     EPP     1(16)     Cide area (NV Black Sea coad)       Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     socials     (Leymete)     38     Maastichtian     TUR     EPP     1(16)     Cide area (NV Black Sea coad)       Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     socials     (Leymete)     38     Maastichtian     TUR     EPP     1(19:24)     Cide area (NV Black Sea coad)       Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     socials     %     38     Maastichtian     TUR     EPP     1(19:24)     Cide area (NV Black Sea coad)	Ozcan & Ozkan-Altiner 1999b					TUR	EFP		Cide area (NW Black See coast)
Özzan ä Özzin-Altiner 1999b         Lepidortholides         socialis         (Leymerle)         38         Maastichtian         TUR         EFP         (16,17)         Cide area (NVBlack Sea coast)           Özzan ä Özzin-Altiner 1999b         Lepidortholides         socialis         (Leymerle)         38         Maastichtian         TUR         EFP         (16)         Cide area (NVBlack Sea coast)           Özzan ä Özzin-Altiner 1999b         Lepidortholides         socialis         (Leymerle)         38         Maastichtian         TUR         EFP         (16)         Cide area (NVBlack Sea coast)           Özzan ä Özzin-Altiner 1999b         Lepidortholides         socialis         (Leymerle)         38         Maastichtian         TUR         EFP         (19-24)         Cide area (NVBlack Sea coast)           Özzan ä Özzin-Altiner 1999b         Lepidortholides         socialis         %         38         Maastichtian         TUR         EFP         1(9-24)         Cide area (NVBlack Sea coast)         Cide area (NVBlack Sea coast)         Socialis								P(15)	
Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     socialis     (Leymenie)     38     Maastrichtian     TUR     EFP     1(18)     Cide area (NW Black Sea coast)       Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     socialis     (Leymenie)     38     Maastrichtian     TUR     EFP     1(18)     Cide area (NW Black Sea coast)       Özzan 3 Özkan-Altiner 1999b     Lepidorthioides     socialis     %     38     Maastrichtian     TUR     EFP     1(18)     Cide area (NW Black Sea coast)				~~		TUR	FFP	1/16 17)	
Ózzan á Żzian - Alter 1999 bulejich triolices socials (Leymenie) 38 Maestrichtian TUR EFP (19-24) (cide area (NVBlack Sea coast) Jozan á Żzian- Alter 1999 bulejich triolices socials % 38 Maestrichtian TUR EFP (19-24) (cide area (NVBlack Sea coast)						TUR	EFP		
Özcan & Özkan-Atiner 1999b Lepidorbitoides socialis % 38 Maastrichtian / TUR EFP % (Cide area (NWr Black Sea coast)						TUR	EFP	1(19-24)	
juzan x uzxan-Admen 19950 juepidoratoides joocialis   %  38  Maastrichtian  TUR  EFP   % (Cide area (NW Black Sea coast)								%	
	∪zcan & Ozkan-Altiner 1999b	Lepidorbitoides	socialis	%	36 Maastrichtian	ITUR	IEF P	%	cide area (NVV black Sea čoast)

Appendix - Tables of the Genera

Appendix –
Tables
of the
Genera

Neumann 1972	%	%	%	%
Neumann 1972	%	%	%	%
Neumann 1972	%	%	%	%
Neumann 1972	%	% *	% *	% *
Neumann 1993 Neumann 1993	96	20	70 96	% %
Neumann 1993	%	%	%	%
Neumann 1993	%	%	%	%
Neumann 1993	%	%	%	%
Neumann 1993	%	%	%	%
Neumann 1993 Neumann 1993	76	76	76	70
Neumann 1993		\$ %	%	×.
Neumann 1993	%	%	%	%
Neumann 1993	%	%	%	%
Neumann 1993	%	%	%	%
Neumann 1993	%	% ~	% ~	%
Neumann 1993 Neumann 1993	% *	%	% *	% *
Neumann 1993	04 04	96	96	
Neumann 1993	- ŵ	w w	%	%
Neumann 1993	%	%	%	%
Neumann 1993	%	%	%	%
Neumann 1993	%	%	%	%
Özcan 1993 Özcan 1993	%	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Loftusia	sandy bioclastic carbonates sandy bioclastic carbonates	% o(
Özcan 1993 Özcan & Özkan-Altiner 1997	% Fia.1	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Loftusia Orbitoides	sandy bioclastic carbonates coarse-prained sandstone	76 96
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides	friable sitistone-sandstone	www.
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides	friable siltstone-sandstone	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Omphalocyclus, Siderolites	friable sandstone	%
	Fig. 1	Orbitoides, Omphalocyclus	%	% ~
Özcan & Özkan-Altiner 1997 Özcan & Özkan-Altiner 1997	Fig. 1 Fig. 1	Orbitoides, Omphalocyclus, Siderolites, Sirtina, Hellenocyclina Orbitoides, Sirtina, Omphalocyclus, Siderolites, Hellenocyclina	bioclastic 96	% %
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Sirtina, Omphalocyclus, Siderolites, Hellenocyclina Orbitoides, Loftusia, Sirtina, Omphalocyclus, Siderolites, Hellenocyclina	fiable limy sandstone and sandy limestone	%
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Omphalocyclus	%	%
Özcan & Özkan-Altiner 1997	Fig. 1	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	%	% *	%	% «
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	76 92	76 92	76	76 92
Özcan & Özkan-Altiner 1999a		96	°,	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a Özrap & Özkan Altiner 1999a	* *	%	%	%
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	76	76	76	70
Özcan & Özkan-Altiner 1999a		%	%	°,
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	%	% ~	%	%
Özcan & Özkan-Altiner 1999a	~	\$ %	%	×.
Özcan & Özkan-Atiner 1999a		96	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a Özcan & Özkan Altiner 1999a	%	% *	%	% «
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	70 92	70	70	70 02
Özcan & Özkan-Altiner 1999a	%	w w	w w w w w w w w w w w w w w w w w w w	
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	76 92	76 92	76	76 92
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999a	%	%	%	%
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides Orbitoides	%	G. ventricosa-R. calcarata zone G. ventricosa-R. calcarata zone
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Fig. 3 Fig. 3	Orbitoides, Siderolites	70	G. ventricosa+k. caicarata zone G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites	%	G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites	%	G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites	%	G. gansseri zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites	%	G. gansseri zone
	Fig. 3 Fig. 3	Orbitoides, Siderolites, Omphalocyclus Orbitoides, Siderolites, Omphalocyclus	% %	G. gansseri zone G. gansseri zone
	Fig. 3	Orbitoides, Siderolites, Omphalocyclus Orbitoides, Siderolites, Omphalocyclus	20 96	G. gansseri zone G. gansseri zone
	Fig. 3	Orbitoides, Siderolites, Oripinalocyclus Orbitoides, Siderolites, Omphalocyclus	%	G. gansseri zone
	Fig. 3	Orbitoides, Siderolites, Omphalocyclus	%	G. gansseri zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus	%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus	%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus	% ~	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus Orbitoides, Siderolites, Omphalocyclus, Sirtina	% *	A, mayaroensis zone
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Fig. 3 Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina Orbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis	76	A. mayaroensis zone A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis, Helenocyclina	%	A, mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fia. 3	Orbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis, Helenocyclina	%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fiq. 3	1%	1 %	A. mayaroensis zone

Özcan & Özkan-Altiner 1999b	Lepidorbitoides	socialis	96	38	Maastrichtian	TUR	FFP	l %	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides					TUR	FFP	·*	Cide area (WW Black Sea mat)
		socialis		38				%	
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	campaniensis		38		TUR	EFP	2(1-3) 2(4,5)	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis	(Jaeger)	38		TUR	EFP	2(4,5)	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	socialis	%	38		TUR	EFP	%	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	socialis	%	38	%	TUR	EFP	%	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis	(Jaeger)	38 38	early Maastrichtian	TUR	EFP	2(6-9)	Kahta area (SE Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis	(Jaeger)	38	early Maastrichtian	TUR	EFP	2(10-12)	Kahta area (SE Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis asymmetrica	n. spp.	38 38 38	Campanian-Maastrichtian	TUR	EFP	2(13)	Haymana area (central Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	campaniensis	van Gorsel	38	Campanian-Maastrichtian	TUR	EFP	2(14)	Hanönü area (NW Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis asymmetrica	n. spp.	20	Campanian-Maastrichtian	TUR	EFP	2(15,16)	Hanifold area (NV/ Anatolia)
				38 38		TUR	EFP	2(17,18)	Hanioti area (two Matolia)
Ozcan & Ozkan-Altiner 1999b	Lepidorbitoides	bisambergensis asymmetrica	n. spp.	38		TUR	FFP		
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis asymmetrica	n.spp.	38				2(19-22)	Hanönü area (NV/ Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis	(Jaeger)	38		TUR	EFP	2(23-25)	Hanönü area (NVV Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis	(Jaeger)	38 38 38		TUR	EFP	2(26)	Hanönü area (NVV Anatolia)
Özcan & Özkan-Altiner 1999b	Lepidorbitoides	bisambergensis	(Jaeger)	38	Campanian-Maastrichtian	TUR	EFP	2(27-30)	Hanönü area (NVV Anatolia)
Özkan-Altiner & Özcan 1999	Lepidorbitoides	socialis	%	38	Maastrichtian	TUR	EFP	%	Haymana region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	socialis	%	38		TUR	EFP	%	Haymana region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	bisambergensis	96	38		TUR	EFP	%	Haymana region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	bisambergensis	e.	38	Maastrichtian	TUR	EFP	e e e e e e e e e e e e e e e e e e e	Haymana region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	campaniensis	~	38	Campanian	TUR	EFP	~	Haymana region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	socialis	20	38		TUR	EFP	/0 0/	
			76			TUR	FFP	70	Cide region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	minor	%	38				76	Cide region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	minor	%	38		TUR	EFP	8	Cide region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	bisambergensis	%	38		TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	pembergeri	%	38	Campanian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	campaniensis	%	38	Campanian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	socialis	%	38	Maastrichtian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	socialis	%	38	Maastrichtian	TUR	EFP	%	Cide region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	bisambergensis	%	38	Maastrichtian	TUR	EFP	%	Hanônű region
Özkan-Altiner & Özcan 1999	Lepidorbitoides	campaniensis	96	38	Campanian	TUR	EFP	8	Hanönü region
Papp 1954	L'epidoratolacs	minima nemberneri	P- 660-			AUT	EEP.	1(3,4)	Nainbuck Egen
Papp 1954	Lepidorbitoides	minima periodigen minima minima	n. cop. Douvillé	69 59 69		AUT	EEP.	1(5)	N. Gehött Pemberger, am Waldrand
Pape 1051	Lepidorbitoides	minima minima	Douvillé	50		ALIT	EFP	1(6)	HService Femology, and Translate
Papp 1954				9 <del>9</del>					
Papp 1954	Lepidorbitoides	bisambergensis	Jäger	59 57	Campanian	AUT	EFP	1(7,8)	Sandstein bei Pemberger
Papp 1954	Lepidorbitoides	minor	(Schlumberger)	57		NLD	EFP	1(9,10)	Maastricht
Papp 1954	Lepidorbitoides	socialis	(Leymerie)	31		FRA	EFP	1(11)	Gensac, Fruska-Gora
Papp 1955a	Lepidorbitoides	minima pembergeri	Papp	59 59 59 59 59 57	Gampanian	AUT	EFP	Abb. 1, fig.3,4	Pembergerriegel (Steinbruch)
Papp 1955a	Lepidorbitoides	minima minima	Douvillé	59	Campanian	AUT	EFP	Abb. 1, fig.5	nördlich Pemberger, an Waldrand
Papp 1955a	Lepidorbitoides	minima minima	Douvillé	59	Campanian	AUT	EFP	Abb. 1, fig.6	Flysch Bisamberg, nördlich Wien
Papp 1955a	Lepidorbitoides	bisambergensis	Jäger	59		AUT	EFP	Abb. 1, fig.7,8	Sandstein bei Pemberger
Papp 1955a	Lepidorbitoides	minor	(Schlumberger)	57		NID	EFP	Abb. 1. fig.9.10	Mansfricht
Papp 1955a	Lepidorbitoides	socialis		31	Maastrichtian	FRA	EFP	Abb. 1, fig.11	Gensac
Page 4000	Lepidorbitoides		(Leymerie)	50		AHT	EFD	P400.1, IIg.11	
Papp 1955b	Lepidorbitoides	minima pembergeri minima minima	Papp Douvillé	59- 59- 59		AUT	EFF	84	Steinbruch, Pembergerriegel (III) nördlich Gehött Pemberger (III)
Papp 1955b				98				*	noralich Genot Pemperger (III)
Papp 1955b	Lepidorbitoides	bisambergensis	Jäger		Campanian	AUT	EFP	%	östlich Gehöft Pemberger (IV)
Papp 1955c	Lepidorbitoides	cf. minor	(Schlumberger)	59	early Maastrichtian	AUT	EFP	3(3)	Krampen
Papp 1956a	Lepidorbitoides	minima minima	Douvillé	58	Campanian	AUT	EFP	1(1)	Bisamberg
Papp 1956a	Lepidorbitoides	bisambergensis	(Jaeger)	59		AUT	EFP	1(2,3)	Hagenbachklamm
Papp 1956a	Lepidorbitoides	minor minor	(Schlumberger)	59	Maastrichtian	AUT	FFP	1(4)	St. Andrae-Mördem
Papp 1956a	Lepidorbitoides	socialis	n. ssp.	59	Maastrichtian	TUAL	EFP	1(5)	Sievering-O spöttgraben
Papp & Küpper 1953a	Lepidorbitoides	bisambergensis	Jäger	59		AUT	EFP	1(10)	Sandsteine Pemberger
Papp & Küpper 1953a	Lepidorbitoides	bisambergensis	Jäger	59		AUT	FFP	3(3)	Bisamberg bei Wien
Dopp 8 Küpper 1053e	Lepidorbitoides	bisambergensis		50	Campanian	AUT	FFP		Sandstein Pemberger
Papp & Küpper 1953a Premoli Silva & Brusa 1981	Lepidorbitoides		Jäger (Leumenie)	59 50	middle Maastrichtian	NRII	CEP	3(4) 5(6,7); 6(1,4)	Salikstelle Fellubagei
		socialis	(Leymerie)			NRU	CFP	D(0,7), D(1,4)	
Premoli Silva & Brusa 1981	Lepidorbitoides	minor	(Schlumberger)	50				6(2); 8(3,4)	Site 462, Nauru Basin
Premoli Silva & Brusa 1981	Lepidorbitoides	bisambergensis	(Jaeger)	50 50	middle Maastrichtian	NRU	CFP	7(1); 9(7)	Site 462 Nauru Basin
Premoli Silva & Brusa 1981	Lepidorbitoides	minor	(Schlumberger)	50	middle Maastrichtian	NRU	CFP	11(2)	Site 462, Nauru Basin
Premoli Silva & Brusa 1981	Lepidorbitoides	sp.	%	50	Maastrichtian	NRU	CFP	%	Hole 462; Nauru Basin
Premoli Silva & Brusa 1981	Lepidorbitoides	sp.	%	50 50	Maastrichtian	NRU	CFP	%	Hole 462; Nauru Basin
Premoli Silva & Brusa 1981	Lepidorbitoides	sp.	%	50	Maastrichtian	NRU	CFP	%	Hole 462A; Nauru Basin
Premoli Silva & Brusa 1981	Lepidorbitoides	sp.	%	49	Maastrichtian	KIR	CFP	%	Hole 165A; Line Islands
Pringgoprawiro et al. 1998	Lepidorbitoides	minor	(Rutten)	47	late Cretaceous	IDN	CFP ASP	16(1,2)	'Indonesia''
Pringgoprawiro et al. 1998	Lepidorbitoides	socialis	(Rutten)	47	late Cretaceous	IDN	ASP	8	"Indonesia"
Renz 1936	Lepidorbitoides	socialis	(Leymerie)	58	Maastrichtian	CHE	EFP	29(1,2); 31(1,3)	A fem ée
Renz 1936	Lepidorbitoides	socialis	(Leymerie)	31		FRA	EFP	×	Frankreich
Renz 1936	Lepidorbitoides	socialis	(Leymerie)	32	Maastrichtian	ESP	EFP	w.	Spanien
Renz 1936	Lepidorbitoides	socialis	(Leymerie)	35	Maestrichtian	ITA	EFP		Spaniori I
Renz 1936	Lepidorbitoides	socialis	(Leymerie)	36	Maastrichtian	GRC	EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Griechenland
Renz 1936	Lepidorbitoides	socialis	(Leymene)	36	Maastrichtian	GRC	EFP	/ ×	oneoneniana Rhodos
				36 69	maasuru uari	ZYP	EFP	×**	
Renz 1936	Lepidorbitoides	socialis	(Leymerie)	69	Maastrichtian			×	Cypern
Renz 1936	Lepidorbitoides	socialis	(Leymerie)	5	%	IND	ASP	%	Indien
Renz 1955	Lepidorbitoides?	sp.	%	10	Maastrichtian	VEN	CFP	6(4-6)	2.55 km S. 37*E of the San Juan monument at San Juan de Los Morros, in the headwaters of Quebrada Aguada
Renz 1955	Lepidorbitoides?	sp.	%	10	Maastrichtian	VEN	CFP	6(7-8)	Paso Copey, west of San Sebastián, State of Aragua
Sartorio & Venturini 1988	Lepidorbitoides	%	%	25	Maastrichtian	YEM	AFP	p. 127	RasFartaq, P.D.R. of Yemen
Schlanger & Premoli Silva 1981	Lepidorbitoides	%	%	50	Maastrichtian	NRU	CFP	%	Site 462, Core 48 Nauru Basin
				4	late Maastrichtian	CUB	CFP	41(3)	Camino Real Viejo de Yaguaramas-Abreus; 5.7 km al WSW de Abreus. Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Lepidorbitoides	planasi	Rutten				1		
Seiglie & Ayala-Castanares 1963		planasi sp.	Rutten %		%	%	1 %	42(1)	%
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963	Lepidorbitoides Lepidorbitoides	sp.	%	% 1	%		CEP %	42(1)	%
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963	Lepidorbitoides Lepidorbitoides Lepidorbitoides	planasi sp. aff. planasi sp.	% Rutten	" % 1	% late Maastrichtian	сив	CFP CFP	42(1) %	% Camino interior en finca Asturias a través del potrero; 450 m NE del Batey al S de Asturias, Prov. Las Villas
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963	Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. aff. planasi sp.	% Rutten %	56 1 1	%	CUB CUB	CFP	%	% Caminointerior en finca Asturias a través del potrero; 450 m NE del Bateyal S de Asturias, Prov. Las Villas Cantera Penalver, en el tramo de la Vía Monumental entre la Vía Balanca y la Carretera Central, Prov. La Habana
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963	Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp.	% Rutten	' % 1 1 1		сив		% % 41(2)	% Camino interior en finca Asturias a través del potrero; 450 m NE del Batey al S de Asturias, Prov. Las Villas
Seiglie & Ayala-Castenares 1963 Seiglie & Ayala-Castenares 1963	Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. aff. planasi sp.	% Rutten %	1 1 1 1 <u>5</u>	% Maastrichtian %	CUB CUB CUB %	CFP CFP %	%	% Camino interior en finca Asturias a través del potrero; 450 m NE del Blanca y la Carretera Central, Prov. Las Villas Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Sirel 1991	Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. aff. planasi sp. foridensis sp. sp.	% Rutten % Cole %	56 1 1 1 56 38	% Maastrichtian kate Maastrichtian	CUB CUB CUB % TUR	CFP CFP % EFP	% % 41(2) 42(2) %	% Camino interior en finca Asturias a través del potrero; 450 m NE del Batey al S de Asturias, Prov. Las Vilas Cantera Penalver, en el tramo de la Vía Morumental entre la Vía Blanca y la Carretara Central, Prov. La Habana Cantera Penalver, en el tramo de la Vía Morumental entre la Vía Blanca y la Carretara Central, Prov. La Habana % Cide reaion
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Sirel 1981 yan Gorsel 1973a	Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. aff.planasi sp. floridensis sp. sp. campaniensis	% Rutten % Cole % n. sp.	' % 1 1 1 <u>%</u> 38 31	% Maastrichtian <u>%</u> late Maastrichtian late Campanian	CUB CUB CUB TUR FRA	CFP CFP <u>%</u> EFP EFP	% % 41(2)	% Camino interior en finca Asturias a través del potrero; 450 m NE del Batey al S de Asturias, Prov. Las Villas Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana Cide region Se of Aubetere
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Sirel 1981 Van Oorsel 1973a Van Oorsel 1973a	Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. aff. planasi sp. foridensis sp. sp. campaniensis campaniensis	% Rutten Cole % n. sp. n. sp.	' % 1 1 <u>%</u> <u>38</u> 31 31	% Maastrichtian Ide Maastrichtian Ide Campanian Ide Campanian	CUB CUB CUB TUR FRA FRA	CFP CFP EFP EFP EFP	% % 41(2) 42(2) (1(1,2,4); 2(1,3,4); 3(3,4); 4(3) 1(3)	% Camino interior en finca Asturias a través del potrero; 450 m NE del Batey al S de Asturias, Prov. Las Vilas Cantera Penalver, en el tramo de la Vía Monumental entre la Vía Blanca y la Carretera Central, Prov. La Habana Cintera Penalver, en el tramo de la Vía Monumental entre la Vía Banca y la Carretera Central, Prov. La Habana Cide region SE of Audeterre Herveen Audeterre and Ribérac
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Sirel 1981 van Gorsel 1973a van Gorsel 1973a van Gorsel 1973a	Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. aff.planasi sp. floridensis sp. sp. campaniensis	% Rutten Cole % n. sp. n. sp.	1 1 1 <u>5</u> 38 31 31 31	% Maastrichtian <u>%</u> late Maastrichtian late Campanian	CUB CUB CUB TUR FRA	CFP CFP EFP EFP EFP EFP	% % 41(2) 42(2) (1(1,2,4); 2(1,3,4); 3(3,4); 4(3) 1(3)	% Camino interior en finca Asturias a través del potrero; 450 m NE del Batey al S de Asturias, Prov. Las Villas Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana Cide region Se of Aubetere
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Sirel 1981 van Gorsel 1973a van Gorsel 1973a van Gorsel 1973a	Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	ep. aff. planasi sp. foridensis sp. campaniensis campaniensis campaniensis	% Rutten % Cole % n. sp.	% 1 1 <u>%</u> 38 31 31 31 31	% Maastrichtian Iate Maastrichtian Iate Campanian Iate Campanian Iate Campanian	CUB CUB CUB TUR FRA FRA	CFP CFP % EFP EFP EFP EFP EFP	% 41(2) 42(2) 1(1)(2,4); 2(1,3,4); 3(3,4); 4(3) 1(3) 1(5)(5)(3)(2); 4(1)	%         %           Camino interior en finca Asturias a través del potrero; 450 m NE del Blanca y la Carretera Central, Prov. La Habana         %           Cantera Penalver, en el tramo de la Via Morumental entre la Via Blanca y la Carretera Central, Prov. La Habana         %           Cantera Penalver, en el tramo de la Via Morumental entre la Via Blanca y la Carretera Central, Prov. La Habana         %           Cide region         %           Sel Aubeterre and Ribérac         %           Between Aubeterre and Ribérac         %
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963 Sirel 1981 Van Oorsel 1973a Van Oorsel 1973a	Lepidortitoides Lepidortitoides Lepidortitoides Lepidortitoides Lepidortitoides Lepidortitoides Lepidortitoides Lepidortitoides Lepidortitoides Lepidortitoides	sp. aff. planasi sp. foridensis sp. sp. campaniensis campaniensis	% Rutten Cole % n. sp. n. sp.	1 1 1 38 31 31 31 31 31 31 31	% Maastrichtian Ide Maastrichtian Ide Campanian Ide Campanian	CUB CUB CUB TUR FRA FRA FRA	CFP CFP EFP EFP EFP EFP	% % 41(2) 42(2) (1(1,2,4); 2(1,3,4); 3(3,4); 4(3) 1(3)	% Camino interior en finca Asturias a través del potrero; 450 m NE del Batey al S de Asturias, Prov. Las Vilas Cantera Penalver, en el tramo de la Vía Monumental entre la Vía Blanca y la Carretera Central, Prov. La Habana Cintera Penalver, en el tramo de la Vía Monumental entre la Vía Banca y la Carretera Central, Prov. La Habana Cide region SE of Audeterre Herveen Audeterre and Ribérac
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Appendix – Tables of the Genera

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of the
Genera

Özan & Özkan-Allner 1998         Fig. 3         Orbitoides, Siderolites, Omphalocyclus, Sirtina, Clypeorbis, Hei encoyclina         %         A meyaroensis zone           Özan & Özkan-Allner 1998         Fig. 3         %         A meyaroensis zone         %         A meyaroensis zone           Özan & Özkan-Allner 1998         Fig. 3         %         A meyaroensis zone         %         A meyaroensis zone           Özan & Özkan-Allner 1998         Fig. 3         Orbitoides         %         Calland zone         %         Calland zone           Özan & Özkan-Allner 1998         Fig. 3         Orbitoides         %         G aegyptiace zone         %         A meyaroensis zone           Özan & Özkan-Allner 1998         Fig. 3         Orbitoides, Omphalocyclus, Sirtina, Hellenocyclina         %         A meyaroensis zone           Özana & Özkan-Allner 1998         Fig. 3         Orbitoides, Omphalocyclus, Sirtina, Hellenocyclina         %         possibly G. aegyptiace zone           Özana & Özkan-Allner 1998         Fig. 3         Orbitoides, Omphalocyclus         %         possibly G. aegyptiace zone           Özana & Özkan-Allner 1998         Fig. 3         Orbitoides, Omphalocyclus         %         possibly G. aegyptiace zone           Özana & Özkan-Allner 1998         Fig. 3         Orbitoides, Omphalocyclus         %         possibly G. aegyptitace zo	
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Papp 1955b Fig. 1,2 Orbitoides (tissoti, media, jaegeri), Siderolites calcitrapoides %	%
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Premoli Silva & Brusa 1981 Fig. 5 Sulcoperculina; Globorotalia gansseri % Core 46; Lepidothtoides-Sulcop	erculina assemblage
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Flenz 1396     Page 545     %     %     %       Fenz 1396     Page 545     %     %       Fenz 1395     Page 545     %     %       Fenz 1395     Page 545     %     %       Fenz 1395     Page 59     %     %       Schlanger & Premol SNn 1801     Fig.2     Otobtiotes, Siderotites calotrapoides, Pseude/omia     %       Schlanger & Premol SNn 1801     Fig.2     Otobtiotes, Siderotites calotrapoides, Pseude/omia     %       Sciella & Avala-Castrares 1963     Page 15     Omphalocyclus, Orthotides, Pseudo/otides, Walarna, Suboperoulina     Caliza dura, recristalizada, scientrati, dura, consolidada, colorerati, dura, consolidada, color gris doro    <	% % % % % % % % % % %
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Renz 1396     Page 545     %     %     %       Renz 1396     Page 545     %     %       Renz 1395     Page 545     %     %       Renz 1395     Page 545     %     %       Schlanger 24 rennol Shn 1811     Fig. 2     Orbitoldes, Siderofles, Paeudotnia       Schlanger 24 rennol Shn 1811     Fig. 2     Orbitoldes, Nadoeronina     %       Schlanger 45     %     %	% % % % % % % % % % % %
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Visser 1951	Lepidorbitoides	minor	(Schlumberger)	57	Maastrichtian	NLD	EFP	11(4)	Burgerwacht-quarry
Visser 1951	Lepidorbitoides	minor	(Schlumberger)	57	Maastrichtian	NLD	EFP	11(6)	under the fortress of Sint Pieter on the St. Pietersberg
Wannier 1983	Lepidorbitoides	socialis	%	32	Maastrichtian	ESP	EFP	%	Talarn (Tremp)
Mannier 1983	Lepidorbitoides	socialis	%	31	Maastrichtian	FRA	EFP	%	Dumes (Chalosse)
Wannier 1983	Lepidorbitoides	socialis	%	31	Maastrichtian	FRA	EFP	%	Gensac (Haute Garonne)
Mannier 1983	Lepidorbitoides	minor	%	57	Maastrichtian	NLD	EFP	%	Maastricht
Zambetakis-Lekkas 1988	Lepidorbitoides	sp.	%	36	late Campanian-early Maastrichtian	GRC	EFP	%	Coupe de Chrissovitsi
Zambetakis-Lekkas 1988	Lepidorbitoides	sp.	%	36	late Campanian-early Maastrichtian	GRC	EFP		Coupe de Kamenitsa
Zhang et al. 2002	Lepidorbitoides	gangdisicus	%	48	late Cretaceous	CHN	ASP	%	Tibet; 29"50'N; 84"10'E
Zhang et al. 2002	Lepidorbitoides	minor	%	48	late Cretaceous	CHN	ASP	%	Tibet; 29°50'N; 84°10'E
Zhang et al. 2002	Lepidorbitoides	zhongbaensis	%	48	late Cretaceous	CHN	ASP	%	Tibet; 29"50'N; 84"10'E
Zhang et al. 2002	Lepidorbitoides	gangdisicus	%	48	late Cretaceous	CHN	ASP	%	Tibet; 29°25'N; 87°05'E

# Sulcoperculina

Publication	Genus	Species	Reference	Loc-No	Stratigraphic Age	Country	Faunal Province	Illustration	Site
idelghany 2003	Sulcoperculina	dickersoni	(Palmer)	23	late Campanian Maastrichtian	OMN	AFP	10(12)	porthem Oman Mountains
idelghany 2003	Sulcoperculina	dickersoni	(Palmer)	23	late Campanian Maastrichtian	OMN	AFP.	%	northem Oman Mountains
ala-Castanares 1963	Sulcoperculina	sp.	%	3	late Campanian	MEX	CFP	%	la margen derecha de la Carretera Panamericana, de México a Tuxtla Gutiérrez, ca 3.9 km vor Tuxtla Gutiérrez
ala-Castanares 1963	Sulcoperculina	sp.	%	3	late Campanian	MEX	CFP CFP	%	nismo afloramiento que Muestra Ay-109-57; 5 metros más alta estratigráficamente
/ala-Castanares 1963	Sulcoperculina	sp.	%	3	late Maastrichtian (?partially early)	MEX	CFP	8	en el camino Viejo entre Ocozocuautla y Ocuilapa,
									ca. 100 m adelante de la Cruz del Alto de Ocuilapa; afloramiento en el piso del camino
yala-Castanares 1963	Sulcoperculina	sp.	96	3	late Maastrichtian (?partially early)	MEX	CFP	%	afloramiento en el piso del mismo camino, ca. 150 m adelante de la localidad 102 Chis.
yala-Castanares 1963	Sulcoperculina	sp.	%	3	late Maastrichtian (?partially early)	MEX	CFP	8	afloramiento sobre el piso, ca. 150 m adelante de la localidad Ay-57-57
yala-Castanares 1963	Sulcoperculina	sp.	%	3	late Maastrichtian (?partially early)	MEX	CFP	8	atioramiento sobre Carretera Panamericana, 16.2 km antes de llegar a Tuxtla Gutiérrez, Chis.
zema et al. 1979	Sulcoperculina	<del>sp.</del>	*	32 32	Maastrichtian	ESP.	EFP EFP	4 <del>0(1)</del> 41(18)	Sierra Seca (Internal Prebetic)
zema et al. 1979	Sulcoperculina	<del>sp.</del>	%		late-Senonian		EFP.	41(18)	Sierra del Segura
zema et al. 1979	Sulcoperculina	obesa	Cizanceurt	32	late Senonian	ESP	EFP	41(19)	Sierra del Segura
zema et al. 1979	Sulcoperculina	<del>sp.</del>	*	32	Maastrichtian	ESP.	EFP.	3 <del>9(1)</del>	Sierra de Arguena (Prebetic)
4054b	Quite an ann dia a	distances (	(0 - 1	-	%	0.714	0.50	~	Australia da
rönnimann 1954b	Sulcoperculina	dickersoni	(Palmer)	9	% Maastrichtian	GTM CUB	CFP CFP	%	Guatemala
önnimann 1954b	Sulcoperculina	sp.	%	1				%	Santa Clara (Las Villas) Province; Camagücy Province, Cuba
rönnimann 1954b	Sulcoperculina	dickersoni	(Palmer)	1	Maastrichtian	CUB	CFP	8	Camagücy Province
rönnimann 1954b	Sulcoperculina	dickersoni	(Palmer)	1	late Cretaceous	CUB	CFP	%	near Habana
önnimann 1954b	Sulcoperculina	sp.	%	2	early Cretaceous	USA	CFP	8	Florida
önnimann 1954b	Sulcoperculina	dickersoni	(Palmer)	p	Maastrichtian		CFP	%	Oriente Province
rönnimann 1954b	Sulcoperculina	dickersoni	(Palmer)	1	early Maastrichtian		CFP	%	Central San Antonio, Habana Province
önnimann 1954b	Sulcoperculina	dickersoni	(Palmer)	1	early Maastrichtian		CFP	%	Central San Antonio, Habana Province
önnimann 1954b	Sulcoperculina	dickersoni	(Palmer)	1	%	CUB	CFP	%	Pinar del Rio Province
önnimann 1954b	Sulcoperculina	cubensis	(Palmer)	1	%		CFP	%	Pinar del Rio Province
önnimann 1954b	Sulcoperculina	vermunti	(Thiadens)	1	%	CUB	CFP	%	Pinar del Rio Province
önnimann 1954b	Sulcoperculina	dickersoni	(Palmer)	1	Middle-late Maastrichtian	CUB	CFP	8	City of Habana
rönnimann 1954b	Sulcoperculina	vermunti	(Thiadens)	h	Middle-late Maastrichtian	CUB	CFP	%	City of Habana
önnimann 1954b	Sulcoperculina	cubensis	(Palmer)	И	Middle-late Maastrichtian	CUB	CFP	8	City of Habana
rönnimann 1955	Sulcoperculina	cf. S. vermunti	(Thiadens)	6	late Cretaceous	JAM	CFP	× *	Green Island, Jamaica, B.W.I.
önnimann 1955	Sulcoperculina	cf. S. vernunti	(Thiadens)	Ĩ.	%	CUB	CFP		central and southern Las Villas Province, Cuba
önnimann 1955	Sulcoperculina	cf. S. vermunti	(Thiadens)	li li	late Cretaceous	CUB	CFP		Las Villas Province, Cuba
önnimann 1957	Sulcoperculina	SD.	(Thilddons)	6	Campanian	USA	CFP	%	Kinney County, southwestern Texas
rönnimann 1957	Sulcoperculina	globosa	de Cizancourt	2	Turonian-?early Maastrichtian	CUB	CFP	l «	
önnimann 1957	Sulcoperculina	cf. S. vermunti	(Thiadens)	L'	Turonian-?early Maastrichtian	CUB	CFP	8	Taguasco town, Las Villas province, Cuba Las Villas and Oriente provinces. Cuba
		cr. S. vernunti	(Inladens)	12			CFP		
önnimann 1957	Sulcoperculina	sp.	76	1	Turonian-?early Maastrichtian			%	Las Villas and Oriente provinces, Cuba
önnimann 1957	Sulcoperculina	cf. S. vermunti	(Thiadens)	1	late Campanian		CFP	%	Gibara area, Oriente province
rönnimann 1957	Sulcoperculina	n.sp.	%	1	late Campanian		CFP	%	Gibara area, Oriente province
rönnimann 1957	Sulcoperculina	globosa	de Cizancourt	12	?Campanian	USA	CFP	%	San German area, Puerto Rico
rönnimann 1957	Sulcoperculina	cf. S. vermunti	(Thiadens)	12	?Campanian	USA	CFP	8	San German area, Puerto Rico
rönnimann 1957	Sulcoperculina	sp.	%	12	?Campanian	USA	CFP	%	San German area, Puerto Rico
rönnimann 1957	Sulcoperculina	cf. S. vernunti	(Thiadens)	7	Turonian-?early Maastrichtian	HTI	CFP	%	northwest of Plaisance, Haiti
rönnimann 1957	Sulcoperculina	diobosa	de Cizancourt	7	Turonian-?early Maastrichtian	HTI	CFP	%	northwest of Plaisance, Haiti
rönnimann 1957	Sulcoperculina	dickersoni	(Palmer)	2	late Maastrichtian	USA	CFP	%	Naussau County, Florida
rönnimann 1958b	Sulcoperculina	sp.	%	2	Cretaceous	USA	CFP	%	Glades County, Florida
utterlin 1967	Sulcoperculina	dickersoni vermunti	Thiadens	3	middle or late Maastrichtian	MEX	CFP	1(1)	Forage Mulato No.1. Municipio de Loma Bonita (Etat d'Oaxaca, près de la frontière avec l'État de Vera Cruz)
tterlin 1967	Sulcoperculina	dickersoni vermunti	Thiadens	52	Maastrichtian (late?)	MEX		1(2-4)	Route Rayon-Tamasopo (État de san Luis Potosi)
utterlin 1967	Sulcoperculina	globosa	de Cizancourt	3	middle or late Maastrichtian		CFP	1(5,6)	Sierra de Guzmantia. Section V. région de Atoyac (Ètat de Vera Cruz)
utterlin 1967	Sulcoperculina	globosa	de Cizancourt	7	Campanian		CFP	1(7)	Sentier Bois Carré-Fiéfié-Pérodin; 6 km eviron au Nord de Bois Carré, altitude 800 m; Montagnes Noires; République d'Haiti
utterlin 1967	Sulcoperculina	globosa	de Cizancourt	3	middle or late Maastrichtian	MEX		1(8)	Forage Mulato No.1. Municipio de Loma Bonita (Etat d'Oaxaca, près de la frontière avec l'État de Vera Cruz)
tterlin 1967	Sulcoperculina	diobosa	de Cizancourt	7	Campanian	HTI	CFP	1011	Sentier Dondon-Marmelade, juste à l'Est du premier passage de la rivère de Marmelade, Massif du Nord; République d'Haiti
atterlin 1967	Sulcoperculina	globosa (?)	de Cizancourt	36-	late Maastrichtian	GRC	EFP	1(9,10,12,14)	du col d'altitude 360m à Kedronas, Grèce
atterlin 1967	Sulcoperculina	globosa (?)	de Cizancourt	60	late Maastrichtian	MKD.	EFP.	1(15)	Chemin Kato Gramatikon à Ano Gramatikon, à la cote 1030m (Province d'Édessa, Macédoine)
tterlin 1981	Sulcoperculina	vermunti	(Thiadens)	68	Campanian-Maastrichtian	MEX	CFP	16(1,2)	Mexico. Caribe
atterlin 1981	Sulcoperculina	dickersoni	(Palmer)	68	Campanian-Maastrichtian	MEX	CFP	16(3,4)	Mexico, Caribe
atterlin 1981	Sulcoperculina	angulata	Brown & Brönnimann	68	Maastrichtian	MEX	CFP	16(5,6)	Mexico, Caribe
atterlin 1981	Sulcoperculina	alobosa	de Cizancourt	68	Campanian-Maastrichtian	MEX	CFP	16(7,8)	Mexico, Caribe
atterlin 1981 atterlin 1981	Sulcoperculina	gioposa cubensis	(Palmer)	68	Campanian-Maastrichtian Maastrichtian	MEX	CFP	17(1.2)	Mexico, Caribe
atterlin 1992	Sulcoperculina	caponală m	(r ainer)	67	Campanian-Maastrichtian	USA	CFP	00	forace au sud d'Hawaii
		oh.	70	67 67				/ ²⁰	
utterlin 1992	Sulcoperculina	sp.	*		middle Maastrichtian	USA	CFP	8	torage au sud d'Hawaii
atterlin 1992	Sulcoperculina	vermunti	%	50	late Campanian	NRU	CFP	1 %	fosse de Nauru
utterlin 1992	Sulcoperculina	cubensis	%	50	late Campanian		CFP	%	fosse de Nauru
utterlin 1992	Sulcoperculina	sp.	%	50	middle Maastrichtian	NRU	CFP	*	fosse de Nauru
audri 1944		dickersoni	Palmer	68	Maastrichtian		CFP	%	Mexico
audri 1944	?Camerina (Sulcoperculina)	dickersoni	Palmer	p	Maastrichtian	CUB	CFP	8	Cuba
audri 1944	?Camerina (Sulcoperculina)	cubensis	Palmer	1	Maastrichtian		CFP	%	Cuba
audri 1944	?Camerina (Sulcoperculina)	vermunti	Thiadens	1	Maastrichtian	CUB	CFP	%	Cuba
audri 1948	Sulcoperculina	vermunti	Thiadens	11	Maastrichtian	COL	CFP	74(1,4,7)	near Guaduas, Cundinamarce, Colombia
aus et al. 2002	Sulcoperculina	dickersoni	(Palmer)	52	middle-late Campanian	MEX	CFP	1(3)	Cárdenas Basin; San Luis Potosí, NE Mexico
aus et al. 2002	Sulcoperculina	globosa	Cizancourt	52	middle-late Campanian	MEX	CFP	%	Cárdenas Basin; San Luis Potosí, NE Mexico
		-						1	
ley 1973	Sulcoperculina	sp.	Thaimann	58	Campanian-Maastrichtian	%	CFP	%	Central America
anzawa 1962	Sulcoperculina	dickersoni	(Palmer)	1	%	CUB	CFP	8(5)	1 km W of Central San Antonio, Habana Province, Cuba
anzawa 1962	Sulcoperculina	sp.	Thaimann	5	late Cretaceous	%	%	8	%
ottinger 1966	Sulcoperculina	dickersoni	(Palmer)	1	late Cretaceous	CUB	CFP	10(8)	Cuba
ottinger 1966	Sulcoperculina	aff othensis	(Palmer)	32	Santonian		EFP	9(A) 10(E)	Sierra del Montsech

Visser 1951	Page 204	%	somewhat darker yellow fossil-waste-bed	%
Visser 1951	Page 204	%	light-yellowBryozoa-bed	%
Wannier 1983	%	Siderolites (cataloniensis, calcitrapoides)	marno-calcaires	Phylozone à Lepidorbitoides socialis
Mannier 1983	%	Siderolites calcitrapoides	96	Phylozone à Lepidorbitoides socialis
Wannier 1983	%	Siderolites (calcitrapoides, denticulatus)	%	Phylozone à Lepidorbitoides socialis
Mannier 1983	%	Siderolites (calcitrapoides, denticulatus)	tuffeau	Phylozone à Lepidorbitoides socialis
Zambetakis-Lekkas 1988	Fig. 1	%	%	%
Zambetakis-Lekkas 1988	Fig. 1	%	%	%
Zhang et al. 2002	Fig. 1		biodastic linestone	96
Zhang et al. 2002	Fig. 1	96	biodastic linestone	%
Zhang et al. 2002	Fig. 1	%	bioclastic limestone	96
Zhang et al. 2002 Zhang et al. 2002 Zhang et al. 2002 Zhang et al. 2002	Fig.1	%	reefimestone	%

# Sulcoperculina

Publication Photogram, 2003 Photogram, 2003 Ayala-Cashnares 1963 Ayala-Cashnares 1963 Ayala-Cashnares 1963 Ayala-Cashnares 1963 Ayala-Cashnares 1963 Ayala-Cashnares 1963 Ayala-Cashnares 1963 Azemaet 4: 1979 Azemaet 4: 1979	Loc-Descr. Fig. 1 Fig. 1 Page 61 Page 62 Page 62 Page 62 Page 62	Association Siderolites Siderolites Ortholides, Lepidorbitoides, Pseudorbitoides Ortholides, Lepidorbitoides, Pseudorbitoides	Lithology and Facies imestone_pirk-limestone chaiky.ifmestone gravas de color pardo amanilento	Remarks % austührliche Lokalität im text
Abdelghany 2003           Ayala-Castamares 1963           Azamaet al. 1979           Azamaet al. 1979           Azamaet al. 1979	Fig.1 Page 61 Page 62 Page 62	Siderolites Orbitoides, Lepidorbitoides, Pseudorbitoides	chalky limestone	
Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Azemeet al. 1979 Azemeet al. 1979	Page 61 Page 62 Page 62	Orbitoides, Lepidorbitoides, Pseudorbitoides		and the state of a state of the
Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Azamaet al. 1979 Azamaet al. 1979	Page 62 Page 62			
tyala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 <del>Azamast al. 1979 Izamast al. 1979 Izamast al. 1979</del>	Page 62		gravas de color pardo amarillento	96
Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Ayala-Castanares 1963 Azema et al. 1979 Azema et al. 1979 Azema et al. 1979	-	Orbitoides, Vauqhanina	areniscas de color amarillo, que intemperizan en pardo amarillento	%
Ayala-Castanares 1963 Ayala-Castanares 1963 Azema et al. 1979 Azema et al. 1979 Azema et al. 1979	D 00			~
Ayala-Castanares 1963 Ayala-Castanares 1963 Azema et al. 1979 Azema et al. 1979 Azema et al. 1979		Orbitoides, Vaughanina	areniscas de color amarillo, que intemperizan en pardo amarillento	96
Ayala-Castanares 1963 Azema et al. 1979 Azema et al. 1979 Azema et al. 1979	Page 63	Orbitoides, Vaughanina Orbitoides, Vaughanina	areniscas de color amarillo, que intemperizar en pardo amarillento	20 94
Azemaet al. 1979 Azemaet al. 1979 Azemaet al. 1979	Page 64	Orbitoides, vaugnanina Orbitoides		70
Azema et al. 1979 Azema et al. 1979	Page 64	oraitoides	Calizas arenosas en capas gruesas, de color crema,	76
Azema et al. 1979 Azema et al. 1979	~		intemperizan en pardo amarillento	~
Azema et al. 1979	*	Orbitoides, Lepidorbitoides, Siderolites	biomicrorudite (grainstone); open platform environment	***
			36-	300
	*	%	94.	9 <del>6</del>
Azema et al. 1979	*	Siderolites, Orbitoides, Lepidorbitoides	terrigenous biomicritic limestone (packstone),	*
			irregularly recrystallized; open carbonate platform facies	
Brönnimann 1954b	%	?Pseudorbitoides	96	%
Brönnimann 1954b	%	Lepidorbitoides, Pseudorbitoides, Orbitoides, ?Meandropsina	96	96
Brönnimann 1954b	%	Vaughanina	96	%
Brönnimann 1954b	%	Vaughanina, ?Meandropsina	%	%
Brönnimann 1954b	%	Lepidorbitoides	%	96
Brönnimann 1954b	%	Vaughanina, Omphalocyclus, Orbitoides, Lepidorbitoides		96
Brönnimann 1954b	Page 95	Orbitoides, Omphalocyclus		
Brönnimann 1954b	Page 95	02	~	70 94
Brönnimann 1954b	Page 95	Vaughanina, Omphalocyclus, Cuneolina, Sulcoperculina	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	^/0 94
			70 M	70
Brönnimann 1954b	Page 95	Vaughanina, Omphalocyclus, Cuneolina, Sulcoperculina	2	70 No.
Brönnimann 1954b	Page 95	Vaughanina, Omphalocyclus, Cuneolina, Sulcoperculina	%	%
Brönnimann 1954b	Page 95	Vaughanina, ?Meandropsina, Sulcoperculina	%	%
Brönnimann 1954b	Page 95	Vaughanina, ?Meandropsina, Sulcoperculina	%	96
Brönnimann 1954b	Page 95	Vaughanina, ?Meandropsina, Sulcoperculina	<u>%</u>	%
Brönnimann 1955	%	Pseudorbitoides	hard, yellow-brown, fragmental limestone	96
Brönnimann 1955	%	Pseudorbitoides, Sulcoperculina	<u> </u>	%
Brönnimann 1955	%	Pseudorbitoides	heterogeneous, fragmental limestone	96
Brönnimann 1957	%	Pseudorbitoides	%	%
Brönnimann 1957	8	Pseudorbitoides, Sulcoperculina		96
Brönnimann 1957		Pseudorbitoides, Sulcoperculina		96
Brönnimann 1957		Pseudorbitoides, Suicoperculina		96
Brönnimann 1957		Pseudorbitoides, Sulcoperculina Pseudorbitoides, Sulcoperculina, Cuneolina	limestone (fore-reef with deeper water influence)	
Brönnimann 1957 Brönnimann 1957	20			70
	76	Pseudorbitoides, Sulcoperculina, Cuneolina	limestone (fore-reef with deeper water influence)	26
Brönnimann 1957	%	Pseudorbitoides, Sulcoperculina	*	%
Brönnimann 1957	%	Pseudorbitoides, Sulcoperculina	96	%
Brönnimann 1957	%	Pseudorbitoides, Sulcoperculina	96	%
Brönnimann 1957	%	%	96	96
Brönnimann 1957	%	%	96	%
Brönnimann 1957	%	Vaughanina, Orbitoides	%	%
Brönnimann 1958b	Page 429	Lepidorbitoides, P seudorbitoides, Orbitoides, Vaughanina	cream white microcoguinoid calcilutite	well cutting, Coastal Petroleum Company No.1,
				T 42 s - R33 E - Sec. 25; Depth: below5800 ft
Butterlin 1967	%	Vaughanina, Orbitoides	%	Depth: 851,3-854,4m
Butterlin 1967	%	Lepidorbitoides	%	%
Butterlin 1967	%	Vaughanina		%
Butterlin 1967	96	Orbitoides	96	%
Butterlin 1967		Vauqhanina, Orbitoides	~	96
Butterlin 1967		Pseudorbitoides		
Butterlin 1967	70		20	70
Butterlin 1967 Butterlin 1967	*	Orbitoides, Omphalocyclus, Lepidorbitoides, Sideralites Lepidorbitoides, Orbitoides, Siderolites	**	**
	*	Fahimminimas' minimage' pidecolites		
Butterlin 1981	1 %	% ~	2	<b>N</b>
Butterlin 1981	%	%	26	%
Butterlin 1981	%	%	%	%
Butterlin 1981	%	%	%	%
Butterlin 1981	%	%	%	%
Butterlin 1992	DSDP	Lepidorbitoides, P seudorbitoi des	96	%
Butterlin 1992	D SDP D SDP	Vaughanina, Pseudorbitoides	%	Maastrichtien supérieur (Douglas 1973)
Butterlin 1992	DSDP	Pseudorbitoides, Vaughanina	%	zone à Globtruncana subspinosa (52.1) et G. calcarata (51.3)
Butterlin 1992	DSDP	Pseudorbitoides, Vaughanina	8	zone à Globtruncana subspinosa (52.1) et G. calcarata (51.3)
Butterlin 1992	DSDP	Lepidorbitoides, Orbitocyclina, Pseudorbitoides, Vaughanina		zone à Globtruncana gansseri
Caudri 1944	96	Lepidorbitoides, ?Meandropsina		
Caudri 1944 Caudri 1944	/°	Orbitoides, Pseudorbitoides, Vaughanina, Omphalocyclus, ?Meandropsina, Lepidorbitoides	~	20
	70		70	70
Caudri 1944	76	Orbitoides, Pseudorbitoides, Vaughanina, Omphalocyclus, ?Meandropsina, Lepidorbitoides	2	
Caudri 1944	***	Orbitoides, Pseudorbitoides, Vaughanina, Omphalocyclus, ?Meandropsina, Lepidorbitoides		
Caudri 1948	%	%	%	%
Causet al. 2002	Page 138	Lepidorbitoides, Vaughanina, Orbitoides	interbedded sitty limestone and argillaceous marl, intercalations of limestone rich in rudiss	%
	-		or other molluscs; open marine environment with terrigenous input	
Causetal. 2002	Page 138	Lepidorbitoides, Vaughanina, Orbitoides	interbedded sitty limestone and argillaceous marl, intercalations of limestone rich in rudiss	%
	1		or other molluscs; open marine environment with terrigenous input	
Dilley 1973	Table II	%		96
Hanzawa 1962	96	9(	9,	Syn.: Miscellanea dickersoni var. vermunti of Cole, 1947
Hanzawa 1962		96	~	Type species: Camerina? dickersoni; Syn.: Sulcoperculina cf. dickersoni
	2/0	20 9/	%	
Hottinger 1966 Hottinger 1966	% Fig. 2	20	calcaires plus ou moins marneux ou détritiques de couleur sombre	% 

lottinger 1966	Sulcoperculina	aff. cubensis	(Palmer)	32	Campanian	ESP	EFP.	10(C,D) 11(AE)	
smail & Boukhary 2001	Sulcoperculina	dickersoni	(Palmer)	20	Campanian	EGY	AEP.	4(1-7) 2(5-7)	Southern Galala, Eastern Desert, Egypt; 29°03' 29°05'N; 32°37' 32° 35'E
mail & Boukhary 2001	Sulcoperculina	globosa	de Gizancourt	20	Gampanian	EGY		2(5-7)	Southern Galala, Eastern Desert, Egypt; 29°03' 29°05'N; 32°37' 32°38 E
inen 1967	Sulcoperculina	cf. S. globosa	de Cizancourt	13	late Campanian-early Maastrichtian	DVM	CFP	%	1500 m ESE of the Country-house San Juan, Central Curacao (Lat: 12*14', Long 69*05'06")
nen 1972	Sulcoperculina	sp.	%	Б	N 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	JAM	CFP	% ~	Parish of Hanover, near Green Island and Haughton Hall, West Jamaica
ijnen 1972	Sulcoperculina	sp.	%	Б	late Campanian-early Maastrichtian	JAM	CFP	76	Parish of St. James, between Sunderland and Amity Hall, the Sunderland Inlier
ijnen 1972	Sulcoperculina	sp.	76	0	Maastrichtian	JAM	CFP	70	Parish of St. James, about 100 to 150 m E of Stapleton, the Sunderland Inlier
ijnen 1972	Sulcoperculina	sp. sp.	%	6	Maastrichtian	JAM	CFP	%	Parish of St. James, between Amity Hall and Kensington, Sunderland Inlier
ijnen 1972	Sulcoperculina	sp.	%	6	Maastrichtian	JAM	CFP	%	Parish of St. James between Amity Hall, Kensington and Stapleton, Sunderland Inlier
ijnen 1972	Sulcoperculina	sp.	%	6	Maastrichtian	JAM	CFP	%	Parish of St. James near Stapleton, Sunderland Inlier
rijnen 1972	Sulcoperculina	sp.	%	6	Maastrichtian	J.AM	CFP	%	Parish of St. James near Stapleton, Sunderland Inlier
rijnen 1972	Sulcoperculina	sp.	%	13	%	DWI	CFP	%	1500 m ESE of the Country-house St. Jan, Central Curacao
ureshy 1977	Sulcoperculina	globosa	de Cizancourt	46-	Maastrichtian	PAK	ASP.	*	Lakhi Range, Sind
ureshy 1977	Sulcoperculina	globosa	de Cizancourt	46-	late Campanian early Maastrichtian	PAK	ASP. ASP. ASP.	%	Murree Brevery, Baluchistan
ureshy 1977	Sulcoperculina	globosa	de Cizancourt	46-	late Campanian early Maastrichtian	P.A.K.	ASP.	%	Harrai, Baluchistan
ureshy 1977	Sulcoperculina	globosa	de Cizancourt	46	early Maastrichtian	PAK	ASP.	%	Harnai, Baluchistan
ureshy 1980	Sulcoperculina	globosa	de Cizancourt	46	Campanian Maastrichtian	PAK	ASP.	*	Pakistan
oeblich & Tappan 1988	Sulcoperculina	sp.	Thaimann	1	Campanian-Maastrichtian	CUB	CFP	%	Cuba
oeblich & Tappan 1988	Sulcoperculina	sp.	Thalmann	Ż	Campanian-Maastrichtian	HTI	CFP	%	Hati
neblich & Tappan 1988	Sulcoperculina	sp.	Thaimann	6	Campanian-Maastrichtian	LAM	CEP	%	amaica
eblich & Tappan 1988	Sulcoperculina	sp.	Thalmann	10	Campanian-Maastrichtian	VEN	CEP	n n n n n n n n n n n n n n n n n n n	Venezuela
beblich & Tappan 1988	Sulcoperculina	sp.	Thalmann	68	Campanian-Maastrichtian	MEX	CEP	~	Mexico
seblich & Tappan 1988	Sulcoperculina		Thaimann	36	Campanian Maastrichtian	GRG	EFD	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Greece Control
uewildha happan 1999		<del>ap.</del>		<del></del>		GIND .		**	
oeblich & Tappan 1988	Sulcoperculina	dickersoni	(Palmer)	2	late Cretaceous	CUB	CFP CFP	745(1-3,6-8)	Habana Prov., Cuba
oeblich & Tappan 1988	Sulcoperculina	dickersoni	(Palmer)	1	late Cretaceous	CUB		745(4,5)	Santa Clara Prov., Cuba
avrikas et al. 1994	Sulcoperculina	<del></del>	*	36	late Maastrichtian	GRG-	EFP	*	Ori Valtou
leric & Coruh 1991	Sulcoperculina	<del>sp.</del>	*	38	Middle late Maastrichtian	TUR	EFP	*	W/Y Sirt, SE Anatolia
almer 1934	?Camerina	dickersoni	n.sp.	1	late Cretaceous	CUB	CFP	14(1,2,4,6,8)	1 km W of Banos de Ciego Montero, Santa Clara Province
almer 1934	?Camerina	cubensis	n. sp.	1	late Cretaceous	CUB	CFP	14(3,5,7)	9 km W of Santa Clara, 3 km S of Carretera Central, Santa Clara Province
écheux 1984	Sulcoperculina	dickersoni	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tuxta Guttierez
écheux 1984	Sulcoperculina	dickersoni	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tuxtla Guttierez
écheux 1984	Sulcoperculina	dickersoni	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tudia Guttierez
écheux 1984	Sulcoperculina	dickersoni	%	3	Campanian-Maastrichtian	MEX	CFP	8	Tuxtla Guttierez
écheux 1984	Sulcoperculina	dickersoni	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tudta Guttierez
écheux 1984	Sulcoperculina	dickersoni	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tuxtla Gutterez
écheux 1984	Sulcoperculina	dickersoni	%	3	Campanian-Maastrichtian	MEX	CFP	l %	Tudia Guttierez
écheux 1984	Sulcoperculina	dickersoni	°,	3	Campanian-Maastrichtian	MEX	CFP		Tudia Guttierez
écheux 1984	Sulcoperculina	dickersoni	96	3	Campanian-Maastrichtian	MEX	CFP	×.	Turta Gutterez
écheux 1984		dickersoni	20	2	Campanian-Maastrichtian	MEX	CEP	70 00	
écheux 1984	Sulcoperculina Sulcoperculina	dickersoni	20 07	0	Campanian-Maastrichtian	MEX	CEP	l %	P1, La Trintaria
			70	3					
écheux 1984	Sulcoperculina	dickersoni	%	3	Campanian-Maastrichtian	MEX	CFP	%	P2, La Triritaria
écheux 1984	Sulcoperculina	dickersoni	%	3	Campanian-Maastrichtian	MEX	CFP	%	P2, La Trinitaria
écheux 1984	Sulcoperculina	vermunti	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tudia Guttierez
écheux 1984	Sulcoperculina	vermunti	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tuda Guttierez
écheux 1984	Sulcoperculina	vermunti	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tuxtla Guttierez
écheux 1984	Sulcoperculina	vermunti	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tuxtla Guttierez
écheux 1984	Sulcoperculina	vermunti	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tuxtla Guttierez
écheux 1984	Sulcoperculina	vermunti	96	3	Campanian-Maastrichtian	MEX	CFP	%	Tuxtla Guttierez
écheux 1984	Sulcoperculina	vermunti	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tuodia Guttierez
écheux 1984	Sulcoperculina	vermunti	96	3	Campanian-Maastrichtian	MEX	CFP	%	Tuotia Guttierez
écheux 1984	Sulcoperculina	so.	96	3	Campanian-Maastrichtian	MEX	CFP	w.	P2. La Trintaria
écheux 1984	Sulcoperculina	50	96	3	Campanian-Maastrichtian	MEX	CFP	×	P2, La Trinitaria
écheux 1984	Sulcoperculina	vermunti	ŵ.	3	Campanian-Maastrichtian	MEX	CFP	N.	P3, La Trintaria
écheux 1984	Sulcoperculina	ver manu	20 07	2	Campanian-Maastrichtian	MEX	CFP	~	P3, La Trintana P3, La Trintana
écheux 1984	Sulcoperculina	globosa	20	2	Campanian-Maastrichtian	MEX	CFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ro, La Tintana Tuxta Gutierez
écheux 1984			70	3		MEX	CFP	20	
	Sulcoperculina	globosa	%	3	Campanian-Maastrichtian	MEX	CFP	%	Tuotla Guttierez
écheux 1984	Sulcoperculina	globosa	76	3	Campanian-Maastrichtian	MEX	CFP	76	P1, La Trinitaria
écheux 1984	Sulcoperculina	globosa	%	3	Campanian-Maastrichtian			~	P3, La Trinitaria
écheux 1984	Sulcoperculina	sp.	%	3	Campanian-Maastrichtian	MEX	CFP	%	P3, La Trinitaria
écheux 1984	Sulcoperculina	globosa	%	3	Campanian-Maastrichtian	MEX	CFP	%	P3, La Trinitaria
écheux 1984	Sulcoperculina	vermunti	%		%	MEX	CFP	7(19,20)	%
essagno 1962	Sulcoperculina	dickersoni	(Palmer)	12	early Maastrichtian	USA	CFP	%	between Ponce and Juana Diaz, south-central Puerto Rico
essagno 1962	Sulcoperculina	dickersoni	(Palmer)	12	early Maastrichtian	USA	CFP	%	between Ponce and Juana Diaz, south-central Puerto Rico
essagno 1962	Sulcoperculina	dickersoni	(Palmer)	12	early Maastrichtian	USA	CFP	%	between Ponce and Adjuntos, south-central Puerto Rico
	1				1				
		1			1			1	
essagno 1962	Sulcoperculina	dickersoni	(Palmer)	12	early Maastrichtian	USA	CFP	%	between Ponce and Adjuntos, south-central Puerto Rico
				1-			1		
					1				
nongno 1963	Sulcoperculina	dickersoni	(Palmer)	12	early Maastrichtian	USA	CFP	%	hatware Report and Adjusted courts River
essagno 1962	Sacoperounna	UNCREISUIT	(*ainer)	2	carly maastruitan	USA	U.P.	⁷⁰	between Ponce and Adjuntos, south-central Puerto Rico
	la.t	and a second	(D-1)	4.0	0	hine a	0.00		
essagno 1962	Sulcoperculina	dickersoni	(Palmer)	12	Campanian	USA	CFP	*	south-central Puerto Rico
remoli Silva & Brusa 1981	Sulcoperculina	cubensis	Palmer	50	middle Maastrichtian	NRU	CFP	1(12); 6(3); 9(8)	Site 462, Nauru Basin
remoli Silva & Brusa 1981	Sulcoperculina	sp.	%	50	middle Maastrichtian	NRU	CFP	2(9)	Site 462, Nauru Basin
remoli Silva & Brusa 1981	Sulcoperculina	vermunti	Thiadens	50	middle Maastrichtian	NRU	CFP	3(3,4)	Site 462, Nauru Basin
remoli Silva & Brusa 1981	Sulcoperculina	vermunti	Thiadens	50	middle Maastrichtian	NRU	CFP	%	Site 462, Nauru Basin
remoli Silva & Brusa 1981	Sulcoperculina	sp.	%	50	Maastrichtian	NRU	CFP	%	Hole 462; Nauru Basin
remoli Silva & Brusa 1981	Sulcoperculina	sp.	%	49	Maastrichtian	KIR	CFP	8	Hole 165A; Line Islands
remoli Silva & Brusa 1981	Sulcoperculina	sp.	%	49	Maastrichtian	KIR	CFP	%	Hole 315A: Line Islands
enz 1955	Sulcoperculina	globosa	de Cizancourt	10	Mæstrichtian	VEN	CFP	1(3,4,7,8)	Paso Copey, west of San Sebastián, State of Aragua
enz 1955	Sulcoperculina	globosa	de Cizancourt	10	Maestrichtian	VEN	CFP	1(5)	Pass Copey, west of San Sebastián, State of Aragua
	Sulcoperculina	globosa	de Cizancourt	10	Maestrichtian	VEN	CEP	1(6)	Pass Copey, west of San Sebastián, State of Aragua
enz 1955	Sulcoperculina	obesa	de Cizancourt	iň	Maestrichtian	VEN	CEP	201-21	Paso Copey, west of San Sebastian, Sale of Aragua
	Sulcoperculina	dickersoni var. vermunti	(Thiadens)	10	Maestrichtian	VEN	CFP	2(1-2) 2(3-6)	
enz 1955				10				2(3-0) (27)	Paso Copey, west of San Sebastián, State of Aragua Base Casey, west of San Sebastián, State of Aragua
nz 1955 nz 1955		dickersoni var. vermunti	(Thiadens)	10	Maestrichtian	VEN	CFP	2(7)	Paso Copey, west of San Sebastián, State of Aragua
enz 1955 enz 1955 enz 1955	Sulcoperculina				1 %	CUB	CFP	2(8)	kilometer 10, Pinar del Río - Luis Lazo road, Pinar del Río Province, Cuba
enz 1955 enz 1955 enz 1955 enz 1955 enz 1955	Sulcoperculina Sulcoperculina	dickersoni var. vermunti	(Thiadens)						
enz 1955 enz 1955 enz 1955 enz 1955 enz 1955 enz 1955	Sulcoperculina	dickersoni var. vermunti dickersoni var. vermunti	(Thiadens) (Thiadens)	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CUB	CFP	3(1)	Kilometer 10, Pinar del Río - Luis Lazo road, Pinar del Río Province, Cuba
enz 1955 enz 1955 enz 1955 enz 1955 enz 1955 osales Dominguez et al. 1994	Sulcoperculina Sulcoperculina Sulcoperculina Sulcoperculina	dickersoni var. vermunti dickersoni var. vermunti globosa		3	% late Campanian-Maastrichtian	MEX	CFP	%	Kilometer 10, Pinar del Río - Luis Lazo road, Pinar del Río Province, Cuba Rìo Suchiapa, SE de Tuxtla Gutiérrez
enz 1955 enz 1955 enz 1955 enz 1955 enz 1955 osales Dominguez et al. 1994	Sulcoperculina Sulcoperculina Sulcoperculina	dickersoni var. vermunti dickersoni var. vermunti		3	% late Campanian-Maastrichtian late Campanian-Maastrichtian	MEX MEX	CFP CFP	%	Kilometer 10, Pinar del Rio - Luis Lazo road, Pinar del Río Province, Cuba Rio Suchiapa, SE de Tudia Gutiérnez Rio Suchiapa, SE de Tudia Gutiérnez
enz 1955 enz 1955 enz 1955 enz 1955 enz 1955 osales Dominguez et al. 1994 osales Dominguez et al. 1994	Sulcoperculina Sulcoperculina Sulcoperculina Sulcoperculina	dickersoni var. vermunti dickersoni var. vermunti globosa		1 3 3 3		MEX	CFP CFP CFP	%	Kilometer 10, Pinar del Río - Luis Lazo road, Pinar del Río Province, Cuba Rìo Suchiapa, SE de Tuxtla Gutiérrez
enz 1955 enz 1955 enz 1955 enz 1955 enz 1955 osales Dominguez et al. 1994 osales Dominguez et al. 1994	Sulcoperculina Sulcoperculina Sulcoperculina Sulcoperculina Sulcoperculina	dickersoni var. vermunti dickersoni var. vermunti globosa globosa globosa		1 3 3 3 3 3	late Campanian-Maastrichtian	MEX MEX	CFP CFP	% % 4(3)	Kilometer 10, Pinar del Rio - Luis Lazo road, Pinar del Río Province, Cuba Rio Suchiapa, SE de Tudla Gutiérrez Rio Suchiapa, SE de Tudla Gutiérrez
enz 1955 enz 1955 enz 1955 enz 1955 enz 1955 csales Dominguez et al. 1994 osales Dominguez et al. 1994 osales Dominguez et al. 1994 osales Dominguez et al. 1994	Sulcoperculina Sulcoperculina Sulcoperculina Sulcoperculina Sulcoperculina Sulcoperculina	dickersoni var. vermunti dickersoni var. vermunti globosa globosa		1 3 3 3 3 3	late Campanian-Maastrichtian late Campanian-Maastrichtian	MEX MEX MEX	CFP CFP CFP	%	Kilometer 10, Pinar del Rio - Luis Lazo road, Pinar del Rio Province, Cuba Rio Suchiapo, ES de Tudia Guidénez Rio Suchiapo, ES de Tudia Guidénez Rio Suchiapo, ES de Tudia Guidénez

Appendix - Tables of the Genera

ki uz zana	les e			
Hottinger 1966	Fig.2	%	**	% 
Ismail & Boukhary 2001 Ismail & Boukhary 2001	*	Orbitoides, Omphalocyclus, Sulcoperculina Orbitoides, Omphalocyclus, Sulcoperculina	**	<del>%</del> %
Krijnen 1967		Pseudorbitoides	hard calcarenite with conglomeratic layers near the base	96
Kriinen 1972	Fig. 1	Pseudorbitoides	naro carcarenne wun congronnerancia yers near me base	×.
Krijnen 1972	Fig. 1	Pseudorbitoides	sandy-sity level	%
Krijnen 1972	Fig. 1	Pseudorbitoides	%	%
Krijnen 1972	Fig. 1	Pseudorbitoides	marly bed	%
Krijnen 1972	Fig. 1	Pseudorbitoides	%	%
Krijnen 1972	Fig. 1	Pseudorbitoides	thin fossiliferous layer in outcropping sandy-conglomeratic sediments	%
Krijnen 1972	Fig. 1	Pseudorbitoides	%	%
Krijnen 1972	Fig. 1 Fig. 1	Pseudorbitoides	calcarenitic limestone lenses	%
Kureshy 1977	Fig. 1	Siderolites, Omphalocyclus, Orbitoides	**	Orbitoides media zone
Kureshy 1977 Kureshy 1977	Fig.1 Fig.1	Lepidorbitoides, Orhitoides, Siderolites, Omphalocyclus Orhitoides, Lepidorbitoides, Siderolites, Omphalocyclus	Carbonate facies	<u>%</u>
Kureshy 1977	Fig.1	Orbitodes, Lepidonicides, Starolites, Uniphalocyclus Omphalocyclus, Orbitoides, Siderolites, Lepidorbitoides	hard massive, splintry, light brown in color; Carbonate facies	Orbitoides media-zone
Kureshy 1980	Page 94	Orbitoides, Lepidorbitoides, Omphalocyclus, Siderclites		0/
Loeblich & Tappan 1988	* Bigo o 1	%		
Loeblich & Tappan 1988	%	%	96	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	%	%	%	%
Loeblich & Tappan 1988	*	96	%	%
Loeblich & Tappan 1988	%	%	% ~	%
Loeblich & Tappan 1988	%	**************************************	%	*
Mavrikas et al. 1994 Meric & Coruh 1991	Fig.1 Fig.1	% Orbitoides, Omphalocyclus, Lepidorbitoides, Clypeorbis, Cuneolina, Sirtina	limestones with large rudists	%
Palmer 1934		Constance, empriside point, Editable Mariade, el gradel Mariade, el una del maria del maria	vellowmaris	type species of Sulcoperculina
Palmer 1934		Orbitocyclina	%	syn: Sukoperculina cubensis
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	calcaires gréseux	%
Pécheux 1984	~	Orbitoides, Orbitocyclina, Pseudorbitoides	calcaires gréseux	*
Pécheux 1984 Pécheux 1984	×	Orbitoides, Orbitocyclina, Pseudorbitoides Orbitoides, Orbitocyclina, Pseudorbitoides	calcaires gréseux calcaires gréseux	76 or
Pécheux 1984	- ŝ	Pseudorbitoides	mames et calcaires	°,
Pécheux 1984	%	Globigerina	mames brunes et de calcaires biodastiques	96
Pécheux 1984	%	Globigerina	marnes brunes et de calcaires bioclastiques	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	calcaires gréseux	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	calcaires gréseux	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	calcaires gréseux	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, Pseudorbitoides	calcaires gréseux	%
Pécheux 1984	%	Orbitoides, Chubbina	mames grises et conglomérats à éléments de socle	%
Pécheux 1984 Pécheux 1984	76	Orbitoides, Orbitocyclina, Vaughanina, Chubbina	marnes gréseuses et de calcaires micritiques	76
Pécheux 1984	76	Orbitoides, Orbitocyclina, Vaughanina, Chubbina	marnes gréseuses et de calcaires micritiques calcaires marneux	70
Pécheux 1984	%	Chubbina, Praealveolina, Orbitoides, ?Kathina	brèche massive	70 96
Pécheux 1984		Pseudorbitoides, Torreina, Globotruncana, Heterohelix, Pithonella	marnes brunes à grises	°,
Pécheux 1984	%	Pseudorbitoides, Torreina, Globotruncana, Heterohelix, Pithonella	marnes brunes à grises	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, ?Kathina, Pseudorbitoides	calcaires gréseux	%
Pécheux 1984	%	Orbitoides, Orbitocyclina, ?Kathina, Pseudorbitoides	calcaires gréseux	%
Pécheux 1984	%	Pseudorbitoides	mames et calcaires	%
Pécheux 1984	%	Pseudorbitoides, Torreina, Pithonella	calcaires blancs	%
Pécheux 1984	%	Pseudorbitoides, Torreina, Globotruncana, Heterohelix, Pithonella	marnes brunes à grises	%
Pécheux 1984	26	Pseudorbitoides, Torreina, Globotruncana, Heterohelix, Pithonella	marnes brunes à grises	% *
Pécheux 1984 Pessagno 1962	Txt-Fig. 1	76 Kathina	04	70 02
Pessagno 1962	Txt-Fig. 1	Kathina	n n n n n n n n n n n n n n n n n n n	% %
Pessagno 1962	Txt-Fig. 1	Miliolids, Pseudogümbelina, Kathina, Vaughanina	massive limestones	Globotruncana fornicata-lapparenti-stuarti assemblage zone;
-	1 -			thin section; Pessagno (MS., p.62): forams and limey muds
1				transported to Rio Yauco sea floor by turbidity currents
Pessagno 1962	Txt-Fig. 1	Miliolids, Vaughanina	massive limestones	Globotruncana fornicata-lapparenti-stuarti assemblage zone;
1				thin section; Pessagno (MS., p.62); forams and limey muds
Records 1963	Txt-Fig. 1	Miliolide Resudarbitaides	macrius limestance	transported to Rio Yauco sea floor by turbidity currents
Pessagno 1962	LARIG. I	Miliolids, Pseudorbitoides	massive limestones	thin section; Pessagno (MS., p.62): foram s and lime y muds transported to Rio Yauco sea floor by turbidity currents
Pessagno 1962	%	96	limestone	wanaportos to nuo nasco sed iluor by turbraty currents
Premoli Silva & Brusa 1981	Fig. 5	%	%	Core 48-2; Depth: 78-81 cm
Premoli Silva & Brusa 1981	Fig. 5	%	%	Core 48-1; Depth; 11-13 cm
Premoli Silva & Brusa 1981	Fig. 5 Fig. 5 Fig. 5	%	%	Core 48-2 Depth: 78-81 cm
Premoli Silva & Brusa 1981	Fig. 5	%	%	Core 48-1; Depth: 11-13 cm; Core 51-3; Depth: 44-47 cm;
				Core 51-3; Depth: 44-47 cm; Core 52-1; Depth: 98-101 cm
Premoli Silva & Brusa 1981	Fig. 5	Lepidorbitoides, Globorotalia gansseri	%	Core 46; Lepidorbitoides-Sulcoperculina assemblage
Premoli Silva & Brusa 1981	Fig. 5	Lepidorbitoides; Globorotalia gansseri	% ~	Core 17: Lepidorbitoides-Sulcoperculina assemblage
Premoli Silva & Brusa 1981 Renz 1955	Fig. 5 Renz 1955: p.64	Globorotalia gansseri	70	Core 17/18 Sulcoperculina-Pseudorbitoididae assemblage
Renz 1955	Renz 1955: p.64	%	× ×	% %
	Renz 1955; p.64	96		%
Renz 1955	Renz 1955: p.65	96	w w	ŵ
Renz 1955 Renz 1955		%	%	%
Renz 1955	Renz 1955: p.65			1
Renz 1955 Renz 1955 Renz 1955	Renz 1955: p.65 Renz 1955: p.65	%	%	%
Renz 1955 Renz 1955 Renz 1955 Renz 1955	Renz 1955: p.65 Renz 1955: p.65 Renz 1955: p.65	%	%	%
Renz 1955 Renz 1955 Renz 1955 Renz 1955 Renz 1955	Renz 1955: p.65 Renz 1955: p.65 Renz 1955: p.65 Renz 1955: p.66	% %	% %	96 96 96
Renz 1955 Renz 1955 Renz 1955 Renz 1955 Rosales Dominguez et al. 1994	Renz 1955; p.65 Renz 1955; p.65 Renz 1955; p.65 Renz 1955; p.66 Page 30	% % Yaughanina	% % packstore con fragmentos biógenos	% % %
Renz 1955 Renz 1955 Renz 1955 Renz 1955 Renz 1955 Rosales Dominguez et al. 1994 Rosales Dominguez et al. 1994	Renz 1955: p.65 Renz 1955: p.65 Renz 1955: p.65 Renz 1955: p.66 Page 30 Page 30	Vaughanina	packstone con fragmentos biógenos	% % % %
Renz 1955 Renz 1955 Renz 1955 Renz 1955 Rosales Dominguez et al. 1994 Rosales Dominguez et al. 1994 Rosales Dominguez et al. 1994	Renz 1955: p.85 Renz 1955: p.85 Renz 1955: p.85 Renz 1955: p.86 Page 30 Page 30 Page 30	Vaughanina Vaughanina	packstone con fragmentos biógenos packstone con fragmentos biógenos	% % % % %
Renz 1955 Renz 1955 Renz 1955 Renz 1955 Rosales Dominguez et al. 1994 Rosales Dominguez et al. 1994 Rosales Dominguez et al. 1994 Rosales Dominguez et al. 1994	Renz 1955: p.85 Renz 1955: p.85 Renz 1955: p.85 Renz 1955: p.86 Page 30 Page 30 Page 30 Page 30 Page 30	Vaughanina Vaughanina Vaughanina	packstone con fragmentos biógenos packstone con fragmentos biógenos packstone con fragmentos biógenos	% % % % % % %
Renz 1955 Renz 1955 Renz 1955 Renz 1955 Renz 1955 Rosales Dominguez et al. 1994 Rosales Dominguez et al. 1994 Rosales Dominguez et al. 1994	Renz 1955: p.85 Renz 1955: p.85 Renz 1955: p.85 Renz 1955: p.86 Page 30 Page 30 Page 30	Vaughanina Vaughanina	packstone con fragmentos biógenos packstone con fragmentos biógenos	% % % % % % %

In	le i ii	1	1	la lista i se serve	h and a	la ma			
Rosales Dominguez et al. 1994	Sulcoperculina	vermunti	%	3 late Campanian-Maastrichtian	MEX	CFP		%	Rìo Suchiapa, SE de Tuxtla Gutiérrez
Rosales Dominguez et al. 1994	Sulcoperculina	vermunti	%	3 late Campanian-Maastrichtian	MEX	CFP		%	Rìo Suchiapa, SE de Tuxtla Gutiérrez
Rosales Dominguez et al. 1994	Sulcoperculina	vermunti	%	3 late Campanian-Maastrichtian	MEX	CFP		%	Rìo Suchiapa, SE de Tuxtla Gutiérrez
Rosales Dominguez et al. 1994	Sulcoperculina	diazi	%	3 late Campanian-Maastrichtian	MEX	CFP		%	Rìo Suchiapa, SE de Tuxtla Gutiérrez
Schlanger & Premoli Silva 1981	Sulcoperculina	sp.	%	49 Campanian-Maastrichtian	KIR	CFP		%	adjacent to the Line Islands
Seiglie & Ayala-Castanares 1963	Sulcoperculina	sp.	%	1 %	CUB	CFP		%	Camino vecinal Yaguaramas-Tierra Nueva-Alava; 3.15 kms.
		-							al NE del entronque con el circuito Sur, frente a la finca Ocujito, Prov. Las Villas
Seiglie & Avala-Castanares 1963	Sulcoperculina	sp.	%	1 %	CUB	CFP		%	Camino Alava-Bidasoa; finca La Cientuequera; 1.7 km, al NW del río Mavor, Prov, Las Villas
Seiglie & Ayala-Castanares 1963	Sulcoperculina (?)	minima	SD. NOV.	1 Campanian	CUB	CFP	8(1-4)		Camino Serventia-La Carrera: 3.6 km. E SE del Central Perseverancia. Prov. Las Villas
Seiglie & Avala-Castanares 1963	Sulcoperculina	sp.	. %	1 %	CUB	CFP	1 · ·	%	Camino Vieio de Yaquaramas-Abreus; 2,3 km s, al WSW del Batev Cienaquita; 3 km s, al N de Alqodones, Prov, Las Villas
Seiglie & Ayala-Castanares 1963	Sulcoperculina	5	%	1 %	сив	CEP		%	Camino Real Viejo de Yaquaramas-Abreus; 400 m. al W del Batey Clenaquita. Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Sulcoperculina	cf, S, globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CFP		%	Camino interior en finca Asturias: a través del potrero: 480 m NE del entronque
		on or granood	00 0120100001			011			del camino Serventia del Real Campina-finca Asturias con el camino Circulatión del Hato Maodalena:
									1 km de los Ferrocarriles Occidentales de Cuba; 4 km SE del Central Perseverancia
Seiglie & Avala-Castanares 1963	Sulcoperculina	50	96	1 %	сив	CEP		96	Camino interior en finca Asturias a través del potrero: 450 m NE del Bateva I Si de Asturias. Prov. Las Villas
Seiglie & Avala-Castanares 1963	Sulcoperculina	dickersoni	(Palmer)	1 Campanian-early Maastrichtian	CUB	CEP		94	Pozo Ranchuelo di mice Addita S. Km al SVV de Aquada de Pasieros
Sergile of Ayala-Casta lailes 1905	Sucopercanna	GICKEISOTI	(Fairrer)	Campanian-carry waaan chain	200	CI P		/0	núcleo aproximadamente a 977 pies de profundidad. Prov. Las Villas
Seiglie & Avala-Castanares 1963	Sulcoperculina	dickersoni	(Palmer)	1 Campanian-early Maastrichtian	сив	CEP	4(1-3)		noteo aproximadamente a sir pies de problididad. Prov. Las villas Pozo Ranchuelo A, rúcielo de 1267 a 1270 pies de profundidad.
Seiglie & Avala-Castanares 1963	Sulcoperculina	uickerson	(Pailler) %	Campainan-earry maasand itain	CUB	CEP	4(1-5)	or	Pozo Ranchuelo A, fucieo de 1267 a 1270 pies de protindidad.
		sp.		76		CFP	4(4)	76	
Seiglie & Ayala-Castanares 1963	Sulcoperculina	dickersoni	(Palmer)	1 Campanian-early Maastrichtian	CUB	CEP	4(4)	~	Pozo Ranchuelo A, núcleo de 1388 a 1395 pies de profundidad.
Seiglie & Ayala-Castanares 1963	Sulcoperculina	dickersoni	(Palmer)	1 Campanian-early Maastrichtian	CUB	CEP		%	Pozo Ranchuelo A, núcleo de 1780 a 1781 pies y 6 pulgadas de profundidad.
Seiglie & Ayala-Castanares 1963	Sulcoperculina	sp.	%	1 %	CUB	CEP		%	Pozo Ranchuelo A, núcleo de 1801 a 1802 pies de profundidad.
Seiglie & Ayala-Castanares 1963	Sulcoperculina	sp.	%	1 %	CUB			%	500 m al S de Provincial
Seiglie & Ayala-Castanares 1963	Sulcoperculina	cf. S. globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CFP		%	Extremo NVV de la loma Guayos, situada a 2.8 km al SE del pueblo de Guayos, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Sulcoperculina	globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CFP		%	600 m al SSW de Chirino Prov. Matanzas
Seiglie & Ayala-Castanares 1963	Sulcoperculina	angulata	Brown & Brönnimann	1 Campanian-Maastrichtian	CUB	CFP	5(4)		5 km al S del trébol de la Via Monumental sobre la Vía Blanca, Prov. La Habana
Seiglie & Ayala-Castanares 1963	Sulcoperculina	sp.	%	1 %	CUB	CFP		%	Camino de Guayos a Neiva, 500 m aproximadamente antes de Neiva, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Sulcoperculina	cf. S. globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CFP		%	Cantera San Juan Bosco en el antiguo camino de Sti. Spiritus-Zaza;
									a 2.75 km al ENE del entronque de la Carretera Central con el Central Tuinucú, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Sulcoperculina	sp.	%	1 %	CUB	CFP		%	Lado SW de la Ioma La Pena, al N de Arroyo Blanco, Jatibonico, Prov. De Camagüey
Seiglie & Ayala-Castanares 1963	Sulcoperculina	globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CFP		%	Lado SW de la Ioma La Pena, al N de Arroyo Blanco, Jatibonico, Prov. De Camagüey
Seiglie & Ayala-Castanares 1963	Sulcoperculina	sp.	96	1 %	CUB	CFP		%	Lado SW de la Ioma La Pena, al N de Arroyo Blanco, Jatibonico, Prov. De Camaqüey
Seiglie & Ayala-Castanares 1963	Sulcoperculina	globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CFP		%	Lado SW de la Ioma La Pena, al N de Arroyo Blanco, Jatibonico, Prov. De Camagüey
Seiglie & Ayala-Castanares 1963	Sulcoperculina	sp.	96	1 %	CUB	CFP		%	LadoN de la loma La Pena, al N de Arroyo Blanco, Jatibonico, Prov. De Camaqüey
1 · ·									
Seiglie & Avala-Castanares 1963	Sulcoperculina	sp.	%	1 %	CUB	CFP		%	Camino Fomento a Pedrero. 6.3 km de Fomento. Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Sulcoperculina	diazi	SD. DOV.	1 Campanian	CUB	CFP		%	Camino Fomento a Pedrero, 6.3 km de Fomento, Prov. Las Villas
Seiglie & Avala-Castanares 1963	Sulcoperculina	diazi	SP. DOV.	1 Campanian	CUB	CFP	7(1)		Camino Fomento a Pedrero, 6.3 km de Fomento, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Sulcoperculina	SD .	%	1 %	CUB	CEP		%	6.2 km de Fomento en el camino a Pedrero
Seiglie & Avala-Castanares 1963	Sulcoperculina	diazi	SP. NOV.	1 Campanian	CUB	CEP	6(1-2), 7(2-3)		6.2 km de Fomento en el camino a Pedrero; afloramiento al E del camino, antes de llegar a una casa, Prov. Las Villas
Seiglie & Avala-Castanares 1963	Sulcoperculina	cf. S. globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CEP	0(1 2% ((2 0)	%	Camino de Fomento a Sta. Lucía. 200 m antes de llegar a La Redonda. Prov. Las Vilas
Seiglie & Avala-Castanares 1963	Sulcoperculina	en o gradosa	96	4 92	CUB	CEP		% %	Cantre de l'ontente a stat. Loura, coo mantes de negati a cantecidinta, inter Castretera Central. Prov. La Habana Cantera Penalver, en el tramo de la Via Michumental entre la Via Blanca y la Carretera Central. Prov. La Habana
Seiglie & Ayala-Castanares 1963	Sulcoperculina	globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CFP	5(1)	70	Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Cantera Central, Prov. La Habana
Seiglie & Avala-Castanares 1963	Sulcoperculina	diobosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CEP	5(2)		Califorar energia en o trans de la via monanental entre la via bianca y la califoraria contrat, Prov. La riabana Profundidad 2789-2808 pies
Seiglie & Ayala-Castanares 1963	Sulcoperculina	globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CFP	2(2)	o/	Protundudu 2705-2000 piles
Seiglie & Ayala-Castanares 1963 Seiglie & Ayala-Castanares 1963	Sulcoperculina	globosa	de Cizancourt	1 late Campanian-Maastrichtian	CUB	CFP	500	70	Profundidad 200-2000 pies
Seiglie & Ayala-Castanares 1963		diazi	so nov	1 Campanian	CUB	CFP	5(3) 6(3-4)		rioluluudu aro-aor pies
perque & Ayaia-Castanares 1963	Sulcoperculina	julazi	sp. nov.	n juampanian	IC08	LCLK.	[0(3-4]		
Pseudorbitoides									

Publication	Genus	Species	Reference	Loc-No	Stratigraphic Age	Country	Faunal Province	Illustration	Site
vala-Castanares 1963	Pseudorbitoides	sp.	%	3	late Campanian	MEX	CFP	%	nargen derecha de la Carretera Panamericana, de México a Tuxtla Gutiérrez, ca. 3,9 km vor Tuxtla Gutiérrez
wala-Castanares 1963	P seudorbitoides	sp.	%	3	late Campanian	MEX	CFP	%	nismo afloramiento que la muestra Ay-109-57; 5 m más alta estratigráficamente
rönnimann 1954b	Pseudorbitoides	sp.	%	1	Maestrichtian	CUB	CFP	%	Santa Clara (Las Villas) Province, and Camagücy Province, Cuba
irönnimann 1954b	Pseudorbitoides	israelskyi	Vaughan & Cole	2	late Cretaceous	USA	CFP	%	Florida
rönnimann 1954b	?P seudorbitoides	sp.	Cole	2	early Cretaceous	USA	CFP	%	Florida
irönnimann 1955	Pseudorbitoides	trechmanni	Douvillé	6	late Cretaceous	J,AM	CFP	9(1-9); 10(1-8)	Green Island, Jamaica, B.W.I.
rönnimann 1955	Pseudorbitoides	rutteni	Brönnimann	1	%	CUB	CFP	%	central and southern Las Villas Province, Cuba
irönnimann 1955	Pseudorbitoides	rutteni	Brönnimann	1	late Cretaceous	CUB	CFP	11(1-7)	Las Villas Province, Cuba
rönnimann 1955	Pseudorbitoides	sp.	Douvillé	6	Campanian-Maestrichtian	J.AM	CFP	%	amaica
rönnimann 1955	Pseudorbitoides	sp.	Douvillé	1	Campanian-Maestrichtian	CUB	CFP	%	Cuba
rönnimann 1955	Pseudorbitoides	sp.	Douvillé	9	Campanian-Maestrichtian	GTM	CFP	%	Guatemala
irönnimann 1955	Pseudorbitoides	sp.	Douvillé	7	Campanian-Maestrichtian	HTI	CFP	%	Hati
rönnimann 1955	Pseudorbitoides	sp.	Douvillé	10	Campanian-Maestrichtian	VEN	CFP	%	Venezuela
irönnimann 1955	Pseudorbitoides	sp.	Douvillé	68	Campanian-Maestrichtian	MEX	CFP	%	Mexico
irönnimann 1955	Pseudorbitoides	sp.	Douvillé	56	Campanian-Maestrichtian	USA	CFP	%	southern United States
rönnimann 1955	Pseudorbitoides	sp.	Douvillé	13	Campanian-Maestrichtian	D.W.I.	CFP	%	possibly Bonaire, D.W.I
irönnimann 1955	Pseudorbitoides	trechmanni	Douvillé	6	%	J.AM	CFP	%	amaica
rönnimann 1955	Pseudorbitoides	trechmanni	Douvillé	1	%	CUB	CFP	%	Cuba
irönnimann 1955	Pseudorbitoides	trechmanni	Douvillé	7	%	HTI	CFP	%	Haiti
rönnimann 1955	Pseudorbitoides	trechmanni	Douvillé		%	USA	CFP	%	southern United States
irönnimann 1955	Pseudorbitoides	<del>sp.</del>	%	51-	%	PNG	ASP.	*	NewGuinea
irönnimann 1955	Pseudorbitoides	longispiralis	Papp & Küpper	68-	early Maestrichtian	AUT	EFP	%	Silberegg, Guttaring Klein St. P.aul, Kämten, Austria
irönnimann 1955	P seudorbitoides	rutteni	Brönnimann	1	%	CUB	CFP	12(1-11)	road from Camajani to Santa Clarita, Las Villas Province
rönnimann 1957	Pseudorbitoides	israelskyl	Vaughan & Cole	4	%	USA	CFP	1(1-5), 2(1,3-5)	Louisiana
irönnimann 1957	Pseudorbitoides	israelskyi	Vaughan & Cole	4	%	USA	CFP	2(2)	Mississippi
rönnimann 1957	P seudorbitoides	israelskyi	Vaughan & Cole	4	Campanian-?	USA	CFP	%	NE Louisiana
irönnimann 1957	Pseudorbitoides	israelskyi	Vaughan & Cole	4	%	USA	CFP	%	Mississippi
rönnimann 1957	Pseudorbitoides	israelsky	Vaughan & Cole	4	%	USA	CFP	%	Louisiana
rönnimann 1957	Pseudorbitoides	israelskvi	Vaughan & Cole	5	%	USA	CFP	%	Texas
rönnimann 1957	P seudorbitoides	israelskyi	Vaughan & Cole	68	%	MEX	CFP	%	Mexico
rönnimann 1957	Pseudorbitoides	israelskvi	Vaughan & Cole	9	%	GTM	CFP	%	Guatemala
rönnimann 1957	P seudorbitoides	israelskyi	Vaughan & Cole	8	%	HND	CFP	%	British Honduras
rönnimann 1957	Pseudorbitoides	israelskvi	Vaughan & Cole	1	%	CUB	CFP	%	Cuba
rönnimann 1957	Pseudorbitoides	israelskyi	Vaughan & Cole	7	%	HTL	CFP	%	Hati
rönnimann 1957	Pseudorbitoides	israelskyi	Vaughan & Cole	12	%	USA	CFP	%	Puerto Rico
irönnimann 1957	Pseudorbitoides	israelskyi	Vaughan & Cole	4	late Campanian	USA	CFP	%	Hinds County, Mississippi
irönnimann 1957	Pseudorbitoides	israelskyi	Vaughan & Cole	5	%	USA	CFP	%	Uvalde county, Texas
rönnimann 1957	Pseudorbitoides	israelskyl	Vaughan & Cole	5	%	USA	CFP	%	Zavala county, Texas
irönnimann 1957	P seudorbitoides	israelskyi	Vaughan & Cole	5	%	USA	CFP	%	Kinney County, SW Texas
rönnimann 1958b	P seudorbitoides(?)	chubbi	Brönnimann	5	Campanian	USA	CFP	1(1-3)	Elm creek, 0.5 mile south of the Southern Pacific Railway, Kinney County, Texas
rönnimann 1958b	Orbitoides	lsn	96	b	Cretaceous	USA	CEP	%	Glades County, Florida

Rest=0 intgate d a 1941         096 3         Vegetaria         Maddam contragenda signed         No           Rest=0 intgate d a 1941         096 3         Vegetaria         Addam contragenda signed         No           Rest=0 intgate d a 1941         096 3         Vegetaria         Addam contragenda signed         No           Rest=0 intgate d a 1941         096 3         Vegetaria         Addam contragenda signed         No           Rest=0 intgate d a 1941         096 3         Vegetaria         Addam contragenda signeda         No         No           Rest=0 intgate d a 1941         096 3         Vegetaria         Addam contragenda signeda         No         No         No           Rest=0 intgate d a 1941         096 3         Vegetaria         Addam contragenda signeda         No         No         No         No           Rest=0 intgate d a 1941         096 3         Vegetaria         Addam contragenda signeda         No         N					
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Incluster et 1914         Ope 3         Varganne         padator contigner to sogno         Science           Statistic contragent to sogno         Science         Scie	Rosales Dominguez et al. 1994	Page 30	Vaudanina	packstone con tragmentos biógenos	96
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Suge 2 Age Category 199	Seiglie & Ayala-Castanares 1963	Page 5	Orbitoides	Caliza arenácea, blanco amarilienta, en capas de 10 pulgadas de espesor	%
Suge 2 Age Cateners 1939 9 ge 2 Addroids, Construction 1970 0 ge 2 Addroids, Construction 1970 0 Gel 2 Addroids,					
Sigle A Aga-Catterer 1930         Si	Seiglie & Avala-Castanares 1963	Page 5	Omphalocyclus, Orbitoides, Asterorbis, Archaeolithothamnium	Caliza recristalizada, estratificada, blanco amarillenta, con numerosos foraminíferos en color blanco	%
Supple A Ayab-Catterer 1930         Supple A Ayab-Catterer 1930 <t< td=""><td>Seiglie &amp; Avala-Castanares 1963</td><td></td><td></td><td></td><td></td></t<>	Seiglie & Avala-Castanares 1963				
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Page 8         Page 8         Chabites, Lacitabilitades, Adenotes, Activates tholannium         Calitas data, restrictuitades color binco analiterio         Second analysis           Stagle 8, Ayad-Catameres 1983         Page 8         %         Maga scalobia de graio fro a muy fro, datas mago-arendoces, grian, cortais, equindermos         %           Stagle 8, Ayad-Catameres 1983         Page 8         %         Maga scalobia de graio fro a muy fro, datas mago-arendoces, grian, cortais, equindermos         %           Stagle 8, Ayad-Catameres 1983         Page 8         %         Maga scalobia de graio fro a muy fro, datas mago-arendoces, grian, cortais, equindermos         %           Stagle 8, Ayad-Catameres 1983         Page 8         Staddatas         %         Maga scalobia de graio fro a muy fro, datas mago-arendoces, grian, cortais, equindermos         %           Stagle 8, Ayad-Catameres 1983         Page 9         Staddatas         Staddatas         %         %           Stagle 8, Ayad-Catameres 1983         Page 9         Staddatas         Staddatas         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         % <td< td=""><td></td><td></td><td></td><td></td><td>~~</td></td<>					~~
Spile 3. Apple Cathraneer 100         Sp	Seiglie & Ayala-Castanares 1963	Page /	Orbitoides, Omphalocyclus,	Calizas duras, recristalizadas en parte, color crema rosaceo, con macrotoraminiteros	76
Spile 3. Apple Cathraneer 100         Sp					
Sajie 3. Ayla-Catanaces 100         Sajie 3. Ayla-Catanaces 100 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Sight 8         Ayele Cattrares 193         Page 9         Number 1         Number 2	Seiglie & Ayala-Castanares 1963	Page 8	Orbitoides, Lepidorbitoides, Asterorbis, Archaeolithothamnium	Calizas duras, recristalizadas color blanco amarillento	%
Sight 8         Ayele Cattrares 193         Page 9         Number of the state of the	Seiglie & Avala-Castanares 1963	Page 8	Asterorbis, Vaughanina	Marga arcillosa de grano fino a muy fino: dureza media, color gris oscuro	%
Sarigle					
Sarigle	Saidia & Avala Casteparas 1963	Bage 9		Margas grissa, interactivatificadas con calizas margoso aranáceas: grissa, corales, eguinodarmos	ex.
Serigie A visue-centranes 193 Page 9Page 9Sincular%Margas centratos, cor yo sociar%Serigie A visue-centranes 193 Page 9Page 9Sincular%%Serigie A visue-centranes 193 Page 9Page 9Sincular%Serigie A visue-centranes 193 Page 9Page 9Sincular%Serigie A visue-centranes 193 Page 10Orbitoles, clotortuncana (neisona, 0:stuard) Caliza arealing latina, con nacrobraminikos%Serigie A visue-centranes 193 Page 10Orbitoles, visuptanina, Actaeotito/timuinCaliza arealing latina, con nacrobraminikos%Serigie A visue-centranes 193 Page 11Orbitoles, visuptanina, Actaeotito/timuinCaliza arealing latina, con nacrobraminikos%Serigie A visue-centranes 193 Page 11Orbitoles, Aderotic, VisuptaninaCaliza arealing latina, con nacrobraminikos%Serigie A visue-centranes 1933 Page 11Orbitoles, VisuptaninaCaliza arealing latina, con nacrobraminikos%Serigie A visue-centranes 1933 Page 12Torrana, PsudotitolidesCaliza masiva algo defitis da color binno roadoso con nacrobraminifero%Serigie A visue-centranes 1933 Page 12Torrana, PsudotitolidesCaliza masiva algo defitis da color binno roadoso con nacrobraminifero%Serigie A visue-centranes 1934 Page 12Torrana, PsudotitolidesCaliza masiva algo defitis da color binno roadoso con nacrobraminifero%Serigie A visue-centranes 1935 Page 12Torrana, PsudotitolidesCaliza masiva algo defitis da color binno roadoso con nacrobraminifero%Serigie A visue-cen					~
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Serigie & Ayala-Castancer 1953 Serigie & Ayala-Castancer 1953 	Seiglie & Avala-Castanares 1963	Page 9	Sulcorbitoides, Globotruncana, Pseudoquembelina; Globotruncana linneiana, G. stuarti	Caliza beigénica con rudistas, entre capas de basalto	%
Serigie & Ayala-Castancer 1953Page 10Orbioles, 'Historikoldes''Cardo de caliza dur, redepostade en un onglomerado del Doeno o Masstirchtano%Serigie & Ayala-Castancer 1953Page 11Sutorikioldes''Sage fina de caliza, intersettrificadas con luttas.%Serigie & Ayala-Castancer 1953Page 11Orbioles, 'Historikoldes''Sage fina de caliza, intersettrificadas con luttas.%Serigie & Ayala-Castancer 1953Page 12Torrein, Pseudoribioles''Caliza mas'n algo detrifica de color blanco rosidoe con macroforminifero%Serigie & Ayala-Castancer 1953Page 12Torrein, Pseudoribioles''Caliza mas'n algo detrifica de color blanco rosidoe con macroforminifero%Serigie & Ayala-Castancer 1953Page 12Torrein, Pseudoribioles''Caliza mas'n algo detrifica de color blanco rosidoe con macroforminifero%Serigie & Ayala-Castancer 1953Page 12Torrein, Pseudoribioles''Caliza mas'n algo detrifica de color blanco rosidoe con macroforminifero%Serigie & Ayala-Castancer 1953Page 12Torrein, Pseudoribioles''Caliza mas'n algo detrifica de color blanco rosidoe con macroforminifero%Serigie & Ayala-Castancer 1953Page 13Orbioles, YuighaninaCaliza mas'n algo detrifica de color blanco rosidoe con macroforminifero%Serigie & Ayala-Castancer 1953Page 13Orbioles, VuighaninaCaliza mas'n algo detrifica de color blanco rosidoe con macroforminifero%Serigie & Ayala-Castancer 1953Page 13Orbioles, VuighaninaCaliza mas'n algo detrifica de color blanco rosidoe con macroforminiferos%Serigie & A	Seiglie & Avala-Castanares 1963	Page 10	Orbitoides, Asterorbis, Vaudhanina, Archaeolithothmnium	Caliza arrecital, blanca, con macroforaminí feros	%
Serigle 8 Ayala-Castraners 1963Page 10Orbitolice, 'Historbiolice''Carlos en las castinucitas de la formación Penaler, "ime gravel"%Serigle 8 Ayala-Castraners 1963Page 11Orbitolice, Asterrottis, VaughaninaCapas fines de caliza, interestraticadas con contractorsanin fero%Serigle 8 Ayala-Castraners 1963Page 12Torrian, PasudottolicesCaliza blanca a blanca grisácea, maiva, dura%Serigle 8 Ayala-Castraners 1963Page 12Torrian, Pasudottolices%%Serigle 8 Ayala-Castraners 1963Page 12Orbitolices, VaughaninaCaliza maiva ajo dtrita de col to blanco rosideo con macrotranin fero%Serigle 8 Ayala-Castraners 1963Page 12Orbitoles, VaughaninaCaliza maiva ajo dtrita de col to blanco rosideo con macrotranin fero%Serigle 8 Ayala-Castraners 1963Page 12Orbitoles, VaughaninaCaliza maiva ajo dtrita de col to blanco rosideo con macrotranin fero%Serigle 8 Ayala-Castraners 1963Page 12Orbitoles, VaughaninaCaliza maiva ajo dtrita de col to bl					94
Seigle & Ayala-Castraners 1963Page 11SuborbhildesSeigle & Ayala-Castraners 1963Page 11SuborbhildesSeigle & Ayala-Castraners 1963Page 11SuborbhildesSeigle & Ayala-Castraners 1963Page 12Torreina, PseudorbhildesSeigle & Ayala-Castraners 1963Page 12Seigle & Ayala-Castraners 1963Page 12Seigle & Ayala-Castraners 1963Page 13Vaughanina, OttoidesSeigle & Ayala-Castraners 1963Page 13Voughanina, OttoidesSeigle & Ayala-Castraners 1963Page 13Voughanina, OttoidesSeigle & Ayala-Castraners 1963Page 14OrtbiddesSeigle & Ayala-Castraners 1963Page 14OrtbiddesSeigle & Ayala-Castraners 1963Page 14OrtbiddesS					~
Serigie & Ayala-Castranere 1983       Page 11       Orbitoles, Asterorbis, Vaughanina       Caliza blanca à blanca à blanca da blanca, dra abanca, grisádea, masiva, dura       %         Serigie & Ayala-Castranere 1983       Page 12       Torrian, Pesudottolides       %       %         Serigie & Ayala-Castranere 1983       Page 12       Torrian, Pesudottolides       %       %         Serigie & Ayala-Castranere 1983       Page 12       Torrian, Pesudottolides       %       %         Serigie & Ayala-Castranere 1983       Page 12       Torrian, Pesudottolides       %       %         Serigie & Ayala-Castranere 1983       Page 12       Torrian, Pesudottolides       %       %         Serigie & Ayala-Castranere 1983       Page 12       Torrian, Pesudottolides       %       %         Serigie & Ayala-Castranere 1983       Page 12       Orbitoles, Yaughanina       Caliza masiva ajo dtrifica de colit blanco rosáce con macrotraninifero       %         Serigie & Ayala-Castranere 1983       Page 12       Orbitoles, Yaughanina       Caliza masiva ajo dtrifica de colit blanco rosáce con macrotraninifero       %         Serigie & Ayala-Castranere 1983       Page 12       Orbitoles, Yaughanina       Caliza masiva ajo dtrifica de colit blanco rosáce con macrotraninifero       %         Serigie & Ayala-Castranere 1983       Page 12       Orbitoles, Yaughanina, Orbitoles					20
Scielle & Ayala-Castarares 1963         Page 12         Torréna, Pesudottoides         Caliza maive algo defitica de color blanco rosáceo con macrotoraminí fero         %           Seigle & Ayala-Castarares 1963         Page 12         Torréna, Pesudottoides         Caliza maive algo defitica de color blanco rosáceo con macrotoraminí fero         %           Seigle & Ayala-Castarares 1963         Page 12         Torréna, Pesudottoides         %           Seigle & Ayala-Castarares 1963         Page 12         Torréna, Pesudottoides         %           Seigle & Ayala-Castarares 1963         Page 12         Torréna, Pesudottoides         %           Seigle & Ayala-Castarares 1963         Page 12         Torréna, Pesudottoides         %           Seigle & Ayala-Castarares 1963         Page 12         Torréna, Pesudottoides         %           Seigle & Ayala-Castarares 1963         Page 12         Ortbioles, Yuuphanina         Caliza maive algo defitica de color blanco rosáceo con macrotoraminí fero         %           Seigle & Ayala-Castarares 1963         Page 13         Vuuphanina, Ortbioles         Galiza maive, alor rosáceo con nucrotoraminí feros         %           Seigle & Ayala-Castarares 1963         Page 13         Ortbioles         %         %         %           Seigle & Ayala-Castarares 1963         Page 14         Ortbioles         Caliza maive, alor rosáceo con nucrotoraminí fer					*
Serigite & Ayala-Castrancer 1963         Page 12         Torrein , Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Torrein , Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Torrein , Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Torrein , Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Serigite & Ayala-Castrancer 1963         Page 12         Ortification of the Castrance 1963         Caliza matva algo detrificat de clot tainoo rosiceo con nucrotorminifero         Serigite & Ayala-Castrancer 1963         Page 12         Ortification of the Castrance 1963         Serigite & Ayala-Castrancer 1963         Page 13         Outpatient of the Castrance 1963         Page 14         Outpatient of th	Seiglie & Ayala-Castanares 1963	Page 11	Orbitoides, Asterorbis, Vaugnanina	Caliza bianca a bianco-grisacea, masiva, dura	%
Serigite & Ayala-Castrancer 1963         Page 12         Torrein , Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Torrein , Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Torrein , Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Torrein , Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Pesudottiolides         Serigite & Ayala-Castrancer 1963         Page 12         Serigite & Ayala-Castrancer 1963         Page 12         Ortification of the Castrance 1963         Caliza matva algo detrificat de clot tainoo rosiceo con nucrotorminifero         Serigite & Ayala-Castrancer 1963         Page 12         Ortification of the Castrance 1963         Serigite & Ayala-Castrancer 1963         Page 13         Outpatient of the Castrance 1963         Page 14         Outpatient of th					
Serigle & Ayala-Castrancer 9163         Page 12         Torrain, Pseudotitolides         Calizan marva ago detritos de ciot blanco rosáceo con macrotraminífero         %           Serigle & Ayala-Castrancer 9163         Page 12         Torrain, Pseudotitolides         Calizan marva ago detritos de ciot blanco rosáceo con macrotraminífero         %           Serigle & Ayala-Castrancer 9163         Page 12         Ortaina, Pseudotitolides         Galizan marva ago detritos de ciot blanco rosáceo con macrotraminíferos         %           Serigle & Ayala-Castrancer 9163         Page 12         Ortaina, Serigle & Ayala-Castrancer 9163         Page 12         Ortaina (Serigle & Ayala-Castrancer 9163)         %           Serigle & Ayala-Castrancer 9163         Page 12         Ortaina(Serigle & Ayala-Castrancer 9163)         Page 13         Ortaina(Serigle & Ayala-Castrancer 9163)         %           Serigle & Ayala-Castrancer 9163         Page 13         Ortaina(Serigle & Ayala-Castrancer 9163)         Page 13         Ortaina(Serigle & Ayala-Castrancer 9163)         %         %           Serigle & Ayala-Castrancer 9163         Page 13         Ortaina(Serigle & Ayala-Castrancer 9163)         Page 14         %         %           Serigle & Ayala-Castrancer 9163         Page 14         Moralegalacita, deres 364, analy and ortificor grandes         %         %         %           Serigle & Ayala-Castrancer 9163         Page 14         Moraleg					%
Serigle & Ayala-Castrancer S193         Page 12         Torrein , Pesudottolides         Calizan marke adjo detrifica de circit blanco trosidos con nunctorraminífero         %           Serigle & Ayala-Castrancer S193         Page 12         Desudottolides         Serigle & Ayala-Castrancer S193         Page 12         Serigle & Ayala-Castrancer S193         Page 12         Serigle & Ayala-Castrancer S193         Page 12         Orbitoles, Vaughanina, Orbitoles, Multiples         Serigle & Ayala-Castrancer S193         Page 13         Orbitoles, Vaughanina, Orbitoles, Multiples         Serigle & Ayala-Castrancer S193         Page 13         Vaughanina, Orbitoles, Multiples         Calizan blanca, derran, maxiva         Serigle & Ayala-Castrancer S193         Page 13         Orbitoles, Multiples         Serigle & Ayala-Castrancer S193         Page 13         Orbitoles, Multiples         Serigle & Ayala-Castrancer S193         Page 14         Orbitoles, Vaughanina, Sider oftes         Calizan derrito, naraviv, coron crema, naraviv, coron strantiferos grandes         Serigle & Ayala-Castrancer S193         Page 14         Orbitoles, Multiples, Vaughanina, Sider oftes         Caliza dura, masiv, coron crema, marilento cre, dura, masiv, coron strantiferos grandes         Serigle & Ayala-Castrancer S193         Page 15 <td>Seiglie &amp; Ayala-Castanares 1963</td> <td>Page 12</td> <td>Torreina, Pseudorbitoides</td> <td>Caliza masiva algo detrítica de color blanco rosáceo con macroforaminí fero</td> <td>%</td>	Seiglie & Ayala-Castanares 1963	Page 12	Torreina, Pseudorbitoides	Caliza masiva algo detrítica de color blanco rosáceo con macroforaminí fero	%
Serigle & Ayala-Castrancer S193         Page 12         Torrein , Pesudottolides         Calizan marke adjo detrifica de circit blanco trosidos con nunctorraminífero         %           Serigle & Ayala-Castrancer S193         Page 12         Desudottolides         Serigle & Ayala-Castrancer S193         Page 12         Serigle & Ayala-Castrancer S193         Page 12         Serigle & Ayala-Castrancer S193         Page 12         Orbitoles, Vaughanina, Orbitoles, Multiples         Serigle & Ayala-Castrancer S193         Page 13         Orbitoles, Vaughanina, Orbitoles, Multiples         Serigle & Ayala-Castrancer S193         Page 13         Vaughanina, Orbitoles, Multiples         Calizan blanca, derran, maxiva         Serigle & Ayala-Castrancer S193         Page 13         Orbitoles, Multiples         Serigle & Ayala-Castrancer S193         Page 13         Orbitoles, Multiples         Serigle & Ayala-Castrancer S193         Page 14         Orbitoles, Vaughanina, Sider oftes         Calizan derrito, naraviv, coron crema, naraviv, coron strantiferos grandes         Serigle & Ayala-Castrancer S193         Page 14         Orbitoles, Multiples, Vaughanina, Sider oftes         Caliza dura, masiv, coron crema, marilento cre, dura, masiv, coron strantiferos grandes         Serigle & Ayala-Castrancer S193         Page 15 <td>Seiglie &amp; Avala-Castanares 1963</td> <td>Page 12</td> <td>Torreina Pseudorbitoides</td> <td>Caliza masiya algo detrífica de color blanco rosáceo con macroforaminí fem</td> <td>%</td>	Seiglie & Avala-Castanares 1963	Page 12	Torreina Pseudorbitoides	Caliza masiya algo detrífica de color blanco rosáceo con macroforaminí fem	%
Serigle & Ayala-Castraners 1983         Page 12         Pseudorbitudes         Caliza masive, otior rossice, con numeross foraminiferos grande y supericise estimational del destimento         Serigle & Ayala-Castraners 1983         Page 12         Orbitudes, Vaughanina, Orbitudes         Caliza masive, color rossice, con numeross foraminiferos grande y supericise estimational del destimento         Serigle & Ayala-Castraners 1983         Page 13         Orbitudes, Mileidae         Serigle & Ayala-Castraners 1983         Page 14         Orbitudes, Mileidae         Serigle & Ayala-Castraners 1983         Page 15         Serigle & Ayala-Castraners 1983         Page 15         Seridita Ayala Castraners 1983         Page 15	Seiglie & Avala-Castanares 1963	Page 12	Torreina, Pseudorbitoides	Caliza masiya algo detrífica de color blanco rosáceo con macmforaminí fem	96
Science         Science <t< td=""><td></td><td></td><td></td><td></td><td>96</td></t<>					96
Seigle & Ayala-Castrancers 1953         Page 12         Orbitolice, Vaughanina, Orbitolides         Seigle & Ayala-Castrancers 1953         Page 13         Orbitolides         Seigle & Ayala-Castrancers 1953         Page 14         Orbitolides         Seigle & Ayala-Castrancers 1953         Page 15         Seigle & Ayala-Castrancers 1953	congilo di Fritalia calotta la co Foco	r ugo rz			~
Seigle & Ayala-Castrancer 1963         Page 13         Vaughanina, Orbitoides         %           Seigle & Ayala-Castrancer 1963         Page 13         Orbitoides         Minida         Caliza defrition, naesiva         %           Seigle & Ayala-Castrancer 1963         Page 13         Orbitoides         Minida         %         %           Seigle & Ayala-Castrancer 1963         Page 13         Orbitoides         Minida         %         %           Seigle & Ayala-Castrancer 1963         Page 13         Orbitoides         Minida         %         %           Seigle & Ayala-Castrancer 1963         Page 14         Orbitoides         Minida         %         %           Seigle & Ayala-Castrancer 1963         Page 14         Orbitoides         Minida         %         %           Seigle & Ayala-Castrancer 1963         Page 14         Orbitoides, Minida         Caliza dura, masiva, color crema-amailento cr.	Calalia 0. Avala Castanana 4000	0			~
Serigite & Ayala-Castrancers 1963         Page 13         Orbitoldes         Minicidae         Serigite & Ayala-Castrancers 1963         Page 14         Orbitoldes         Monolespicional Series         Series Ayala-Castrancers 1963         Page 14         Orbitoles         Series Ayala-Castrancers 1963         Page 15         Series Ayala-Castrancers 1963         Series Ayala-Castrancers 1963         Series Ayala-Castrancers 1963         Series Ayala-Castrancers 1963         Series Ayala-Castrancer					70
Serigite & Ayala-Cactaracer \$1953         Page 13         Orbitolies         Misolical         Caliza deritica, masiva, con abundantes foramiferos grandes         %           Serigite & Ayala-Castaracer \$1953         Page 13         Monlepidorbi, Onbitolides, Misolidae         Caliza deritica, masiva, con abundantes foramiferos grandes         %           Serigite & Ayala-Castaracer \$1953         Page 14         Orbitolides, Misolidae         Caliza deritica, masiva, con abundantes foramiferos grandes         %           Serigite & Ayala-Castaracer \$1953         Page 14         Orbitolides, Misolidae         Caliza dura, masiva, consilidante forama diferos grandes         %           Serigite & Ayala-Castaracer \$1953         Page 14         Orbitolides, Lepidorbi, Vaugharina, Siderrities         Caliza dura, masiva, consolidada, color gris disco         %           Serigite & Ayala-Castaracer \$1953         Page 15         Omphaloxyclus, Aetronbitolides, Paguidorbitolides, Vaugharina         Caliza dura, masiva, consolidada, color gris disco         %           Serigite & Ayala-Castaracer \$1953         Page 15         %         %         %         %           Serigite & Ayala-Castaracer \$1953         Page 15         %         %         %         %					76
Serigite & Ayala-Castrancers 1963         Page 13         Monolepototis, Ontorides, Millolidae         Caliza amanili_corre, dura, masive, con abundante feuna da foraminíferos grandes         %           Serigite & Ayala-Castrancers 1963         Page 14         Ottobides         Ottobides         Caliza dura, masive, coinc cema-amaniler foros grandes         %           Serigite & Ayala-Castrancers 1963         Page 14         Ottobides         Omphalocyclus, Asterothis, Vaughanina, Sideroites         Caliza dura, masive, coinc cema-amaniler foros grandes         %           Serigite & Ayala-Castrancers 1963         Page 15         Omphalocyclus, Ostotides, Lepidorbitides, Vaughanina         Caliza dura, masive, coinc cema-amaniler foros grandes         %           Serigite & Ayala-Castrancers 1963         Page 15         Omphalocyclus, Ontotides, Lepidorbitides, Vaughanina         Caliza dura, masive, coinc cema-amaniler dura, consolidada, color gris claro         %           Serigite & Ayala-Castrancers 1963         Page 15         Malocyclus, Ontotides, Lepidorbitides, Vaughanina         Caliza dura, castrancers 1963         %         %           Serigite & Ayala-Castrancers 1963         Page 15         %         %         %         %           Serigite & Ayala-Castrancers 1963         Page 15         %         %         %         %					%
Seigle & Ayala-Castrarers 1963         Page 14         Orbitolices         Sciences         <					%
Seiglie 8 Ayala-Castanares 1963         Page 14         Omphalocyclus, Aderontis, Vaughanina. Suberottes         Caldruidta, decamable, arcillosa, color gris caro         %           Seiglie 8 Ayala-Castanares 1963         Page 15         Omphalocyclus, Orbitoldes, Lepidorbioldes, Vaughanina         Caldruidta, decamable, arcillosa, color gris caro         %           Seiglie 8 Ayala-Castanares 1963         Page 15         %         %         %           Seiglie 8 Ayala-Castanares 1963         Page 15         %         %         %           Seiglie 8 Ayala-Castanares 1963         Page 15         %         %         %	Seiglie & Ayala-Castanares 1963	Page 13	Monolepidorbis, Orbitoides, Miliolidae	Caliza amarillo-ocre, dura, masiva con abundante fauna da foraminíferos grandes	%
Seiglie 8 Ayala-Castanares 1963         Page 14         Omphalocyclus, Aderontis, Vaughanina. Suberottes         Caldruidta, decamable, arcillosa, color gris caro         %           Seiglie 8 Ayala-Castanares 1963         Page 15         Omphalocyclus, Orbitoldes, Lepidorbioldes, Vaughanina         Caldruidta, decamable, arcillosa, color gris caro         %           Seiglie 8 Ayala-Castanares 1963         Page 15         %         %         %           Seiglie 8 Ayala-Castanares 1963         Page 15         %         %         %           Seiglie 8 Ayala-Castanares 1963         Page 15         %         %         %	Seiglie & Avala-Castanares 1963	Page 14	Orbitoides	Caliza dura, masiva, color crema-amarillento a carmelita grisáceo con foraminíferos grandes	26
Serjēje & Avjala-Castraners 1953   Page 15 Serjēje & Avjala-Castraners 1953   % % Serjēje & Avjala-Castraners 1953   % %					96
Seiglie & Ayala-Castnares 1963         Page 15         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %					~
Saigle & Ayala-Castraners 1963   Page 15 % % % % % %			omprime years, or wearse, Espres biologe, Personalitations, Bugiterine	on a value of carsen and, we be control and a control gine of the or	19 9
Seiglie & Ayala-Castanares 1963 % %			2	*	70
		Page 15	1 %	1 Xe	76
Seiglie & Ayala-Castanares 1963 % %		%	%	× 1	36
	Seiglie & Ayala-Castanares 1963	%	%	%	%

## Pseudorbitoides

Publication	Loc-Descr.	Association	Lithology and Facies	Remarks
Ayala-Castanares 1963	Page 61	Orbitoides, Lepidorbitoides, Sulcoperculina	Gravas de color pardo amarillento	nähere Lok-Beschreibung im Text
Ayala-Castanares 1963	Page 62	Orbitoides, Sulcoperculina, Lepidorbitoides	Gravas de color pardo amarillento	- 96
Brönnimann 1954b	%	Lepidorbitoides, Orbitoides, Sulcoperculina, ?Meandropsina, Vaughanina		
Brönnimann 1954b	%	Vaughanina, Orbitoides	96	well; Depth: 2985-3000 feet
Brönnimann 1954b	%	Vaughanina	26	26
Brönnimann 1955	%	rare Sulcoperculina	96	topdype
Brönnimann 1955	%	Sulcoperculina	96	96
Brönnimann 1955	%	%	96	96
Brönnimann 1955	%	%	96	96
Brönnimann 1955	%	96	96	96
Brönnimann 1955	%	%	96	96
Brönnimann 1955	%	%	96	96
Brönnimann 1955		%	96	96
Brönnimann 1955	%	%	%	36
Brönnimann 1955	%	%	96	96
Brönnimann 1955	%	%	96	96
Brönnimann 1955	%	96	96	96
Brönnimann 1955	%	96		96
Brönnimann 1955	%	%	96	96
Brönnimann 1955	96	96		
Brönnimann 1955	n n n n n n n n n n n n n n n n n n n	a.		<u>s</u>
Brönnimann 1955	a di	<u>.</u>		
Brönnimann 1955	%	96	96	96
Brönnimann 1957	%	%		
Brönnimann 1957	%	96	96	96
Brönnimann 1957	96	96	limestone	
Brönnimann 1957		96	96	
Brönnimann 1957	~	%	96	96
Brönnimann 1957	%	96		96
Brönnimann 1957	96	96	96.	
Brönnimann 1957	%	96		
Brönnimann 1957	96	96	96	96
Brönnimann 1957	%	96		
Brönnimann 1957		96		
Brönnimann 1957	%	%		
Brönnimann 1957		96		Baker, Ridgway, et al., McRae well No. 1 in SE 1/4
	~	~	~	SW 1/4-NW 1/4 Sec. 24, T. 7 N., R. 1 W.; Depth: 3916 - 3922 tt
Brönnimann 1957	96	96	Anacacho limestone	sell
Brönnimann 1957	~	%	Anacacho limestone	well
Brönnimann 1957		96	Upson clay	provide the second seco
Brönnimann 1958b	Page 424	P seudorbitoides i sraelsk vi	opsonouy %	expected (cardinal contents occurry) (oddiny 100-11)
Brönnimann 1958b	Page 429	Sulcoperculina, Orbitoides, Lepidorbitoides, Vaughanina	cream white microcoquinoid calcilutite	vell cutting, Coastal Petroleum Company No.1,
				T 42 s - R33 E - Sec. 25, Depth: below/\$800 ft

	Description and the second second	lan at a trans	D-XI	1-	0	lum.	CEP	۰. ۲	Conference of the state to the All Control of the state o
Butterlin 1967 Butterlin 1981	Pseudorbitoides Pseudorbitoides	sp. cf. rutteni rutteni	Brönnimann Brönnimann		Campanian Campanian-early Maastrichtian	MEX	CFP	33(1-4)	Sentier Dondon-Marmelade, juste à l'Est du premier passage de la rivière de Marmelade; Massif du Nord; République d'Haiti Mexico. Caribe
Butterlin 1981	P seudorbitoides(?)	chubbi	Brönnimann	69	Campanian-eany maasurchuan	MEX	CFP	33(5,6)	Mexico, Caribe
Butterlin 1981	Pseudorbitoides	curacanensis	Krinen	68	late Campanian-early Maastrichtian	MEX	CFP	33(7-9)	Mexico Caribe
Butterlin 1981	Pseudorbitoides	trechmanni trechmanni	Douvillé	68 68 68	Campanian-Maastrichtian	MEX	CFP	34(1,3,6)	Mexico, Caribe
Butterlin 1981	Pseudorbitoides	trechmanni pectinata	Krijnen	68	Campanian-Maastrichtian	MEX	CFP	34(2,4,5)	Mexico, Caribe
Butterlin 1981	Pseudorbitoides	israelskyl	Vaughan & Cole	68	Campanian	MEX	CFP	34(7,8)	Mexico, Caribe
Butterlin 1992	Pseudorbitoides	israelskyi	Vaughan & Cole	49	late Campanian	KIR	CFP	1(10)	voisinage des îles Line (Leg 33-Loc.316-27.3-65(19 A)) [Kiribati]
Butterlin 1992	Pseudorbitoides	israelskyl	Vaughan & Cole	49	late Campanian	KIR	CFP	1(11)	voisinage des îles Line (Leg 33-Loc.316-27.3-65/69(15)) [Kiribati]
Butterlin 1992	Pseudorbitoides	cf. isnaelskyi	%	49	middle Maastrichtian	KIR	CFP	%	échantillon 315-9cc
Butterlin 1992	Pseudorbitoides	israelskyi	%	50	late Campanian	NRU	CFP	%	fosse de Nauru (Leg 61-Site 462, sections 52.1 et 51.3)
Butterlin 1992	Pseudorbitoides	sp.	%	50 <del>51</del> -	middle Maastrichtian	NRU	CFP	%	fosse de Nauru (Leg 61-Site 462, sections 48.1 et 48.2)
Butterlin 1992	Pseudorbitoides	israelskyl	%	<del>51</del> -	Campanien	PNG	ASP- CFP	*	Nouvelle Guinée
Butterlin 1992	Pseudorbitoides	sp.	%	67 67	Campanien-Maastrichtien	USA	CFP	%	au sud d'Havvaii (Leg 17, Site 165 A)
Butterlin 1992	Pseudorbitoides	sp.	%		middle Maastrichtian	USA	CFP	<b>%</b>	au sud d'Havaii (Leg 17, Site 165 A)
Butterlin 1992	Pseudorbitoides	<del>3101</del>	L+1+	48	**	CHN	ASP. EFP	*	1101
Butterlin 1992 Caudri 1944	Pseudorbitoides Pseudorbitoides	sp. israelskvi	Vaughan & Cole	58	% Maestrichtian	CUB	CFP	**	Autriche
				1			CFP	<b>%</b>	
Caudri 1944	P seudorbitoides P seudorbitoides	trechmanni	Douvillé Douvillé	1	Maestrichtian	CUB	CEP	<u>%</u>	Cuba
Dilley 1973 Frizzell 1954	P seudorbitoides	sp. israelskvi	Vaughan & Cole	5	Campanian-Maastrichtian Gulf, late Cretaceous	76	CED	70 8/	Northern America, Central America Texas
Frizzell 1954	P seudorbitoides	israelskyl	Vaughan & Cole	5	Guif, late Cretaceous	USA	CEP	×	Texas
Hanzawa 1962	P seudorbitoides	SD.	Douvillé		Campanian to Maastrichtian	03A %	CFF %		94
Hanzawa 1962	Pseudorbitoides	israelskii	Vaughan & Cole	ŝ	Campanian			1(26,27)	~~~~~
Hanzawa 1962	Pseudorbitoides	rutteni	Brönnimann	, iii	late Campanian or Maestrichtian		%	·(±0,±1) %	i i i i i i i i i i i i i i i i i i i
Hashimoto 1982	Pseudorbitoides	<del>80.</del>	<u>%</u>	65	late Cretaceous	PHL	ASP-	*	Pinugay, Tanay, Rizal
Hashimoto et al. 1978a	Pseudorbitoides	<del>89.</del>	%	65	?Cretaceous Paleocene?	PHL	ASP.	%	Rinugay Hill, Tanay, Rizal, Central Luzon
Hashimoto et al. 1978a	Pseudorbitoides	<del>60.</del>	%	65	Cretaceous	PHL	ASP.	8(9)	Pinugay Hill, Tanay, Rizal, Central Luzon
Hashimoto et al. 1978a	P-seudorbitoides	<del></del>	%	65	Paleocene	PHL	ASP.	8(14,15)	Pinugay Hill, Tanay, Rizal, Central Luzon
Hashimoto & Matsumaru 1984	P-seudorbitoides	<del>89.</del>	%	65	Cretaceous	PHL	ASP-	*	Pinugay Hill, Tanay, Rizal
Krijnen 1967	Pseudorbitoides	curacacensis	nov. Sp.	13	late Campanian-early Maastrichtian	DVVI	CFP		1500 m ESE of the country-house San Juan, Curacao; Netherlands Antilles; Lat: 12*15', Long: 69*05'06"
Krijnen 1972	Pseudorbitoides	curacapensis	Krijnen	13	late Campanian-early Maastrichtian	DVM	CFP	1(1-9)	near St. Jan (Cas Abao), Curacao
Krijnen 1972	Pseudorbitoides	cf. P. (?) chubbi	Brönnimann	6	Campanian	JAM	CFP	2(1-7); 3(1-6); 4(1-6)	Sunderland Inlier, Jamaica
Krijnen 1972	Pseudorbitoides	trechmanni trechmanni	Douvillé	6	Campanian	J.AM	CFP	5(1-18), 6(1-6); 7(1-6), 8(1-6), 9(1-6)	near Green Island, Jamaica
Krijnen 1972	Pseudorbitoides	trechmanni pectinata	subsp. nov.	6	Campanian	JAM	CFP	10(1-11); 11(1-6); 12(1-6); 13(1-5)	Sunderland Inlier, Jamaica
Krijnen 1972	Pseudorbitoides	trechmanni trechmanni	Douvillé	6	Campanian	JAM	CFP	14(1-11); 15(1-15); 19(1-10)	Sunderland Inlier, Jamaica
Krijnen 1972	Pseudorbitoides	trechmanni trechmanni	Douvillé	6	Campanian	JAM	CFP	16(1-5); 17(1-5)	Sunderland Inlier, Jamaica
Krijnen 1972	Pseudorbitoides	trechmanni trechmanni	Douvillé	6	Campanian	JAM	CFP	18(1-6)	Sunderland Inlier, Jamaica
Krijnen 1972	Pseudorbitoides	trechmanni trechmanni	Douvillé	6	Campanian	JAM	CFP	20(1-6)	Sunderland Inlier, Jamaica
Krijnen 1972	Pseudorbitoides	trechmanni pectinata	subsp. nov.	6	Campanian	JAM	CFP	21(1-6); 22(1-6); 23(1-6)	Sunderland Inlier, Jamaica
Krijnen 1972	Pseudorbitoides	trechmanni pectinata	subsp. nov.	6	Campanian	J.AM	CFP CFP	24(1-6), 26(1-5)	Sunderland Inlier, Jamaica
Krijnen 1972	Pseudorbitoides	trechmanni pectinata	subsp. nov.	6	Campanian Campanian-Maastrichtian	J,AM	CFP	25(1-6)	Sunderland Inlier, Jamaica
Loeblich & Tappan 1988	Pseudorbitoides	sp.	Brönnimann	6		JAM CUB	CFP	<b>%</b>	, amaica Cuba
Loeblich & Tappan 1988	P seudorbitoides P seudorbitoides	sp.	Brönnimann Brönnimann	1	Campanian-Maastrichtian Campanian-Maastrichtian	HTI	CFP	* *	Cupa Hati
Loeblich & Tappan 1988		sp.		ć				70	
Loeblich & Tappan 1988 Loeblich & Tappan 1988	P seudorbitoides P seudorbitoides	sp.	Brönnimann Brönnimann	5	Campanian-Maastrichtian Campanian-Maastrichtian	USA USA	CFP CFP	200 W	Texas Louisiana
Lucular o rappari 1300		ap.		4		USA			
Looblich & Ternen 1999						1.6M	CED	746(1.10)	Green Island Jamaica
Loeblich & Tappan 1988 McCowrap 1968	P seudorbitoides	trechmanni	Douvillé %	6	late Cretaceous	JAM	CFP	746(1-10) %	Green Island, Jamaica Rod Morselw District Western Pacific
McGowran 1968	P seudorbitoides P seudorbitoides P seudorbitoides	<del>sp.</del>	%	6 54 59	Campanian	JAM PNG	CFP	*	Port Moresby District, Western Pacific
McGowran 1968 Papp 1954	Pœudorbitoides	trechmanni <del>sp.</del> longispiralis of trechmanni	Douvillé % Papp & Küpper Douvillé	6 54 59 59		JAM PNG AUT	CFP ASP EFP	746(1-10) % 1(1) 1(2)	Port Morestry District, Western Pacific Silberega SW of Outlaring, Kärnlen
McGowran 1968 Papp 1954 Papp 1954	P-seudorbitoides P-seudorbitoides	ep. longispiralis of. trechmanni	% Papp & Küpper	6 51- 59 59 59 59	Campanian Campanian	JAM PNG	CFP ASP- EFP EFP EFP	¥. 1(1)	Sert Mores <mark>ty: Fistris: Western Racies</mark> Silberegg: SW of Outlaring, Karrien Sciennus: Westerscher: Zementalack, Pemberger Riegel, oberhalb Bergstation
McGowran 1968 Papp 1954 Papp 1954 Papp 1956a Papp 1955a	Pseudorbitoides Pseudorbitoides Pseudorbitoides	<del>sp.</del> Iongispiralis	% Papp & Küpper Douvillé	6 54 59 59 59 59 59	Campanian Campanian Campanian Campanian	JAM PNG AUT AUT	CFP ASP EFP EFP EFP EFD	** 1(1) 1(2)	Rert Moresky, Mistrik, Weistern Roofe Siberbegg: Vir durland, Karten Anne Siberbegg: Vir durland, Karten Zennertlatzik, Pemberger Riegel, oberhab: Bergstation Siberbegg:
<u>McCowran 1968</u> Papp 1954 Papp 1954 Papp 1955a Papp 1955a Papp 1955b	Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides	<del>sp.</del> longispiralis cf. trechmanni longispiralis	% Papp & Küpper Douvillé Papp & Küpper	6 54 59 59 59 59 59	Campanian Campanian Campanian	JAM PNG AUT AUT AUT AUT AUT	CFP ASP EFP EFP EFP EFP EFP	% 1(1) 1(2) Abb.1, fg.1	Sect Morsely, Midrid, Western Rools           Sibereggs, V.V. of Uniting, Karling A.           Solution, Siberegg           Solution, Siberegg           Solution, Siberegg
McGowran 1968 Papp 1954 Papp 1954 Papp 1955a Papp 1955a Papp 1955b Papp 1955b Papp 1955b	Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides	<del>SD.</del> longispiralis c <del>f. trechmanni</del> longispiralis c <del>f. trechmanni</del>	% Papp & Küpper Douvillé Papp & Küpper	6 59 59 59 59 59 59 59 59	Campanian Campanian Campanian Campanian	JAM PNG AUT AUT AUT AUT AUT	CFP ASP 6FP 6FP 6FP 6FP 6FP 6FP 6FP	%           1(1)           1(2)           Abb. 1, fig.1           Abb. 1, fig.2           %           %	Det Moresty District Western Paris Stelanego SW of Calaran, Kartan Stelanego SW of Calaran, Kartan Stelanego Penbergeniego (Sterbruch) S Guttamp Siberego S Guttamp Siberego
McGowran 1968 Papp 1954 Papp 1954 Papp 1955a Papp 1955a Papp 1955b Papp 1955b Papp 1955b	Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides	ep <del>.</del> longispiralis cf.trechmanni longispiralis cf.trechmanni longispiralis	% Papp & Küpper Douvillé Papp & Küpper	6 59 59 59 59 59 59 59 59 59 59	Cempanian Cempanian Cempanian Cempanian Cempanian Cempanian Cempanian Cempanian	JAM PNG AUT AUT AUT AUT AUT AUT AUT	CFP ASP EFP EFP EFP EFP EFP EFP EFP EFP	%           1(1)           1(2)           Abb. 1, fig.1           Abb. 1, fig.2           %           %	Dert Morsesp: Untrict, Weissenn Radie           Steherags; Wichtig, Weissenn Radie           Steherags; Wich Curkand, Karten           Steherags; Wich Curkand, Karten           Steherags; Wich Curkand, Karten           Steherags; Wich Curkand, Karten           Steherags; Wich Charlen, Karten           Steherags; Steherage           Sentenzen:           Steherags; Steherage           Steherags; Steherage           Steherags; Steherage           Steherags; Steherage           Steherage; Steherage
<u>McCowvan 1968</u> Рарр 1964 Рарр 1965 Рарр 1965а Рарр 1965а Рарр 1965b Рарр 1955b Рарр 1955b Рарр 1955b Рарр 1955b	Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides Pseudorbitoides	89- iongispiralis cr.trechmanni iongispiralis cr.trechmanni iongispiralis trechmarni iongispiralis israelskyi	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 59 59 59 59 59 59 59 59 59 3	Cemparian Cemparian Cemparian Cemparian Cemparian Cemparian Cemparian Cemparian Cemparian Cemparian	JAM PNG AUT AUT AUT AUT AUT AUT AUT MEX	CFP ASP EFP EFP EFP EFP EFP EFP EFP EFP CFP	% 1(1) 1(2) Abb.1, fg.1	Det Monsely, District, Weeken Radie           Stelereges VM. Collaring, Kerten           Stelereges VM. Stelereges VM. Stelereges           Scalaring, Stelerege           Penbergerings Stelereges           Stelereges Stelerbuck           Viola Gutterz Z
McGowan 1968           Papp 1854           Papp 1854           Papp 1855a           Papp 1455b           Pa	Pesudoritioides	99- longispiralis (c.trechmanni longispiralis (c.trechmanni longispiralis trechmanni longispiralis Israelsky Israelsky Israelsky	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 54 59 59 59 59 59 59 59 59 59 59 59 3 3 3	Cemperien Cemperien Cemperien Cemperien Cemperien Cemperien Cemperien Cemperien Cemperien Comperien Comperien Comperien Comperient Asstructure	JAM PNG AUT AUT AUT AUT AUT AUT AUT AUT	CFP ASP EFP EFP EFP EFP EFP EFP EFP CFP CFP	%           141)           142)           143           144)           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145	Part Morsesby, District, Western Paolo           Stenerge, V.V. of Unitrot, Karten Paolo           Stenerge, Stenerge, V.V. of Unitrot, V.V. of Paolo P
McGowran 1988           Papp 1964           Papp 1964           Papp 1966a           Papp 1965b           Pécheux 1984           Pécheux 1984	Pseudorbitoides	9- Iongiapiralis cf.treshmanni iongiapiralis ditechmanni iongiapiralis treshmanni iongiapiralis treshmanni iongiapiralis treshmanni israelský israelský sraelský	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 54 59 59 59 59 59 59 59 3 3 3 3	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian	JAM PNG AUT AUT AUT AUT AUT AUT AUT AUT	CFP ASP EFP EFP EFP EFP EFP EFP CFP CFP CFP CFP CFP EFP EFP EFP EFP EFP EFP EFP EFP EFP E	%           143           146           147           148           148           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149           149 <t< td=""><td>Deat Moreasy, District, Weekern Radie           Steinberges, Wichtigt, Weekern Radie           Steinberges, Wich (Wahring, Karlingen)           Steinberges (Charling, Karlingen)           Rentbergersige (Steinbruch)           Southamp, Steinbruch)           Pendergersige (Steinbruch)           Southamp, Steinbruch)           Steinbruch           Under Gestrage Steinbruch           Under Gutterez           Unde Gutterez           Unde Gutterez           Unde Gutterez</td></t<>	Deat Moreasy, District, Weekern Radie           Steinberges, Wichtigt, Weekern Radie           Steinberges, Wich (Wahring, Karlingen)           Steinberges (Charling, Karlingen)           Rentbergersige (Steinbruch)           Southamp, Steinbruch)           Pendergersige (Steinbruch)           Southamp, Steinbruch)           Steinbruch           Under Gestrage Steinbruch           Under Gutterez           Unde Gutterez           Unde Gutterez           Unde Gutterez
McGowan 1986           Papp 1954           Papp 1954           Papp 1954           Papp 1955a           Papp 1955b           Papp 1955b           Papp 1955b           Papp 1955b           Papp 1955b           Papp 1955b           Pécheux 1984           Pécheux 1984           Pécheux 1984           Pécheux 1984	Sesudorbitoides     Posudorbitoides	97- Iongiapiralis (cf. trochmanni Iongiapiralis (cf. trochmanni Iongiapiralis trochmarni Iongiapiralis Israelsky sraelsky p. cf. israelsky p. cf. israelsky	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 54 59 59 59 59 59 59 59 3 3 3 3 3	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian-Masstirthien Camparian-Masstirthien Camparian-Masstirthien Camparian-Masstirthien	JAM PNG AUT AUT AUT AUT AUT AUT AUT AUT	CFP ASP BFA BFA BFA BFA BFA BFA CFP CFP CFP CFP CFP	%           144)           142,           Abb.1, fg.2           %           33           7(26,27)           %           %           %	Part Morsesty, District, Western Paolo           Stelenegos, Victrict, Western Paolo           Stelenegos, Victrict, Western Paolo           Stelenegos, Victor, Victored Stelener, Pamberger Riegel, oberhab: Bergstation           Stelenegos, Victor, Victored Stelener, Pamberger Riegel, oberhab: Bergstation           Stelenegos, Victored Stelener, Pamberger Riegel, oberhab: Bergstation           Stelenergos           Rembergerreigel (Stelener, phys.)           Schutzerg, Stelenerg           Berbergerreigel, Stelenergh, VivtAfersdorf (II)           Stelenerg, Stelenerg           Tudio Gutterez
McGovers1986         Papp-1854           Papp-1854         Papp-1856           Papp-1856         Papp-18568           Papp-18568         Papp-18588           Papp-18588         Papp-18588	Pesudorbitoides	e- Ingrippiralis cf. fredmanni (cf. redmanni cf. redmanni (cf. redmanni (cf	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 54 59 59 59 59 59 59 59 3 3 3 3 3 3 3 3 3 3 3 3 3	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Asastichten Camparian-Maastichten Camparian-Maastichten Camparian-Maastichten Camparian-Maastichten Camparian-Maastichten	JAM PNG ALT ALT ALT ALT ALT ALT ALT ALT	CFP EFP EFP EFP EFP EFP EFP CFP CFP CFP CFP CFP CFP	%           143           142           143           144           145           142           143           144           145           145           145           145           145           145           145           144           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145 <t< td=""><td>Deat Moreasy, District, Weekern Rasie           Stehenges, Victoriat, Victoren Rasie           Penhorgeniegel (Stehenbruch)           Schartenge           Penhorgeniegel (Stehenbruch)           Stehenges, Stehender           Diola Gutterez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Staterege           Forditerez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Staterege</td></t<>	Deat Moreasy, District, Weekern Rasie           Stehenges, Victoriat, Victoren Rasie           Penhorgeniegel (Stehenbruch)           Schartenge           Penhorgeniegel (Stehenbruch)           Stehenges, Stehender           Diola Gutterez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Staterege           Forditerez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Tudia Gutterez           Staterege
McGovers 1988           Papp -1854           Papp -1854           Papp -1855a           Papp -1855a           Papp -1855b           Papp -1	Pesudottikoides Pesudottikoid	eb- inonjepiralie cf.fred/marchi longi-piralie cf.fred/marchi longi-piralie fred/marchi longi-piralie treehmarchi longi-piralie treehmarchi pirality p. cf. irseliky p. cf. irseliky tiraelity tiraelity h	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 54 59 59 59 59 59 59 3 3 3 3 3 3 3 3 3 3 3	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Asstriction Camparian-Mastriction Camparian-Mastriction Camparian-Mastriction Camparian-Mastriction Camparian-Mastriction Camparian-Mastriction Camparian-Mastriction Camparian-Mastriction	JAM PNG AJIT AJIT AJIT AJIT AJIT AJIT AJIT MEX MEX MEX MEX MEX MEX MEX MEX	CFP ASP EFP EFP EFP EFP EFP EFP CFP CFP CFP CFP CFP CFP CFP CFP	%           144)           142,           Abb.1, fg.2           %           33           7(26,27)           %           %           %	Part Morescy, District, Western Radie           Steherags, Wichtigt, Western Radie           Steherags, Wich Curkand, Kartnen           Steherags, Wich Curkand, Kartnen           Steherags, Wich Curkand, Kartnen           Steherags, Wich Curkand, Kartnen           Steherags, Wich Steheragh           Rembergareniged, Steherach, Wicklersdorf (II)           Steherags           Steherags           Voltafors, Steherach, Wicklersdorf (II)           Steherags           Tudie Gutterez           Tudie Gutterez           Tudie Gutterez           P3, La Trintan           P3, La Trintan
McGovers1956         Papp-1456           Papp-1456         Papp-1456           Papp-1456a         Papp-1455a           Papp-1455a         Papp-1455b           Papp-1455b         Papp-1455b <td< td=""><td>Pesudorbitoides     Pesudorbitoides     Pesudorbitoides</td><td>en- long-sprävels (ong-sprävels (ong-sprävels (ong-sprävels traditmetrol long-sprävels traditmetrol long-sprävels (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradity) (stradit</td><td>% Papp &amp; Küpper Douvillé Papp &amp; Küpper Douvillé % %</td><td>6 54 59 59 59 59 59 59 59 3 3 3 3 3 3 3 3 3</td><td>Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Campar</td><td>JAM PHG AJT AJT AJT AJT AJT AJT AJT MEX MEX MEX MEX MEX MEX MEX MEX MEX</td><td>CFP           ASP.           BFA           BFA           BFA           BFA           BFA           CFP           CFP</td><td>%           143           143           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145           145      <t< td=""><td>Viet Messey: Visiti, Western Roade           Stehengs; Visiti, Visiti, Visitian, Karten           Stehengs; Visiti, Visitian, Karten           Stehengs; 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McGovers 1988           Papp - 1854           Papp - 1854           Papp - 1855a           Papp - 1855a           Papp - 1855b           Papp - 1855b <td>Pesudortitoides Pesudortitoides Pesudortitoid</td> <td>eb- inonjepřalie cf. fedymarké inonjepřalie cf. fedymarké inonjepřalie trechmarké inonjepřalie trechmarké irradisty p. cf. irsadisty j. cf. irsadisty irradisty irradisty irradisty irradisty irradisty irradisty irradisty irradisty irradisty</td> <td>% Papp &amp; Küpper Douvillé Papp &amp; Küpper Douvillé % %</td> <td>6 54 59 59 59 59 59 59 3 3 3 3 3 3 3 3 3 3 3</td> <td>Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Mastir chien Camparian-Mastir chien</td> <td>JAM PNG AJT AJT AJT AJT AJT AJT AJT AJT AJT MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX</td> <td>CFP           ASP.           EFP.           EFP.           EFP.           EFP.           EFP.           EFP.           CFP.           CFP.     &lt;</td> <td>%           144)         1429           1459         1469           1459         %           2639         %           7(26,27)         %           %         %           7(21,22)         %           %         %           %         %           7(26)         %</td> <td>Part Morses, Visitis, Visitan, Rasia           Steleness, Visitis, Visitan, Rasian, Rasi</td>	Pesudortitoides Pesudortitoid	eb- inonjepřalie cf. fedymarké inonjepřalie cf. fedymarké inonjepřalie trechmarké inonjepřalie trechmarké irradisty p. cf. irsadisty j. cf. irsadisty irradisty irradisty irradisty irradisty irradisty irradisty irradisty irradisty irradisty	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 54 59 59 59 59 59 59 3 3 3 3 3 3 3 3 3 3 3	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Mastir chien Camparian-Mastir chien	JAM PNG AJT AJT AJT AJT AJT AJT AJT AJT AJT MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX	CFP           ASP.           EFP.           EFP.           EFP.           EFP.           EFP.           EFP.           CFP.           CFP.     <	%           144)         1429           1459         1469           1459         %           2639         %           7(26,27)         %           %         %           7(21,22)         %           %         %           %         %           7(26)         %	Part Morses, Visitis, Visitan, Rasia           Steleness, Visitis, Visitan, Rasian, Rasi
McGovers 1986         Papp -1864           Papp -1864         Papp -1864           Papp -1866         Papp -1865           Papp -1865         Papp -1865	Pesudottikoides	en- long-sprävele (ong-sprävele (ong-sprävele (ong-sprävele tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 54 59 59 59 59 59 59 3 3 3 3 3 3 3 3 3 3 3	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Mastir Atlen Camparian Mastir Atlen	JAM PNG AUT AUT AUT AUT AUT AUT AUT MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX	CFP ASP. BFA. BFA. BFA. BFA. BFA. BFA. CFP CFP CFP CFP CFP CFP CFP CFP	%           144)           1423           Abb. 1, 59-1           Abb. 1, 59-2           %           2(3)           7(26,27)           %           %           7(21,22)           %           %           7(28)           7(21)	Rest Morespir/Middlessen Reade           Stehengspir/Middlessen Reade           Diade Cutterez           Tudie Cutterez           Valid Sutterez           Stehengspir/Middlessen           Stehengen           Stehengen
McGovers 1988           Papp - 1854           Papp - 1854           Papp - 1855a           Papp - 1855a           Papp - 1855b           Papp - 1855b <td>Pesudortitoides Pesudortitoides Pesudortitoid</td> <td>de: iong-sprivale cef. fred/marchi iong-sprivale cef. fred/marchi iong-sprivale cef. fred/marchi iong-sprivale israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky israelsky is</td> <td>% Papp &amp; 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McGovers 1988           Papp 1484           Papp 1484           Papp 1485           Papp 1485a           Papp 1485b           Papp 1485b           Papp 1485b           Papp 1485b           Papp 1485b           Papp 1485b           Papp 1495b           Pa	Pesudorbiticides	en- long-sprävele (ong-sprävele (ong-sprävele (ong-sprävele tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry tradistry	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 54 59 59 59 59 59 59 59 59 59 59	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Mastir drien Camparian-Mastir drien	JAM PNG AUT AUT AUT AUT AUT AUT AUT MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX	CFP  ASP  EFA  EFA  EFA  EFA  EFA  EFA  EFA  CFP  CFP  CFP  CFP  CFP  CFP  CFP  C	%           144)           1423           Abb. 1, 59,-1           Abb. 1, 59,-2           %           243.           7(26,27)           %           7(21,22)           %           7(23,30)           %	Part Morses, Visitis, Visitan, Rasia           Steinengs, Visitis, Visitan, Karlan           Steinengs, Visitis, Visitan, Karlan           Steinens, Visitan, Karlan           Visitan, Karlan           Visitan, Karlan           Partian           Partian
McGovers 1988           Papp 1484           Papp 1484           Papp 1485           Papp 1485a           Papp 1485b           Papp 1485b           Papp 1485b           Papp 1485b           Papp 1485b           Papp 1485b           Papp 1495b           Pa	Pesudottikoides Pesudottikoid	en- long-spräke (ong-spräke (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke)	% Papp & Küpper Douvillé Papp & Küpper Douvillé % %	6 541 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 599 593 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Mastir drien Camparian-Mastir drien	JAM PRIGA ALIT ALIT ALIT ALIT ALIT ALIT ALIT MEX MEX MEX MEX MEX MEX MEX MEX	CFP Age.	%           144)         142           145         145           146         146           146         146           146         146           146         146           146         146           146         146           146         146           146         146           146         146           146         146           146         146           146         146           147         146           148         146           149         146           148         146           149         146           149         146           149         146           149         146           149         146           149         146           149         146           149         146           149         146           149         146           149         146           149         146           149         146           149         146           149         146	Part Morses, Visitis, Visitan, Rasia           Steinengs, Visitis, Visitan, Karlan           Steinengs, Visitis, Visitan, Karlan           Steinens, Visitan, Karlan           Visitan, Karlan           Visitan, Karlan           Partian           Partian
McGovers 1986           Papp - 1864           Papp - 1864           Papp - 1864           Papp - 1865a           Papp - 1865a           Papp - 1865b           Papp - 1865b <td>Pesudorbitoides Pesudorbitoides Pesudorbitoid</td> <td>de: iong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (</td> <td>Papp &amp; Kupper Dountifé Papp &amp; Kupper Dountifé % % % % % % % % % % % % % % % % % % %</td> <td>6</td> <td>Camparien Camparien Camparien Camparien Camparien Camparien Camparien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien</td> <td>JAM PAIG AUF AUF AUF AUF AUF AUF AUF AUF AUF MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX</td> <td>CFP ASP EFF EFF EFF EFF EFF EFF CFP CFP CFP CFP CFP CFP CFP CFP CFP C</td> <td>%           144)           1423           Abb. 1, 59,-1           Abb. 1, 59,-2           %           243.           7(26,27)           %           7(21,22)           %           7(23,30)           %</td> <td>Rest Mossiv, Mistick Western Reade           Silenbergs; Wickick Western Reade           Silenbergs; Wickick Western Reade           Silenbergs; Wickick Western Reade           Silenbergs; Wickick Western Reade           Sentation; Silenbergs;           Pembergarised; Silenbergh           Sentation; Silenbergs;           Berengs; Silenbergh           Berengs; Silenbergh           Undia Gutterez           Undia Gutterez           Undia Gutterez           Si, La Trintatia           Si, La Trintatia           PS, La Trintatia           Photenenn con and Adjuntas, south-contrin Puerto Rico</td>	Pesudorbitoides Pesudorbitoid	de: iong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (ong-sprivale (	Papp & Kupper Dountifé Papp & Kupper Dountifé % % % % % % % % % % % % % % % % % % %	6	Camparien Camparien Camparien Camparien Camparien Camparien Camparien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien Camparien-Masstichtien	JAM PAIG AUF AUF AUF AUF AUF AUF AUF AUF AUF MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX	CFP ASP EFF EFF EFF EFF EFF EFF CFP CFP CFP CFP CFP CFP CFP CFP CFP C	%           144)           1423           Abb. 1, 59,-1           Abb. 1, 59,-2           %           243.           7(26,27)           %           7(21,22)           %           7(23,30)           %	Rest Mossiv, Mistick Western Reade           Silenbergs; 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McGovers1986         Papp-1854           Papp-1854         Papp-1856           Papp-1856         Papp-1856           Papp-1856         Papp-1858           Papp-1856         Papp-1858           Papp-1858         Papp-1858           Papp-1862         Papp-1862           Persasyno 1862         Persasyno 1862           Persasyno 1862         Persasyno 1862           Person 1862         Persasyno 1862           Person 1862         Persasyno 1862           Person 1862         Persasyno 1862           Person 1862         Person 1862	Pesudorbioldes Pesud	en- long-spräke (ong-spräke (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke)	%           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	6         541           549         559           559         569           569         569           569         569           33         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           412         12           12         50	Campareiran Campareiran Campareiran Campareiran Campareiran Campareiran Campareiran Campareiran-Mastir diten Campareiran-Mastir diten Campareiran Matdir Justir diten Matdir Justir diten Lie Campareiran	JAM PANG ALIT ALIT ALIT ALIT ALIT ALIT ALIT ALIT	CFP  ASP  EFA  EFA  EFA  EFA  EFA  EFA  EFA  CFP  CFP  CFP  CFP  CFP  CFP  CFP  C	%           443           444           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           440           440           441           443	Deck Moresspir Obstick, Western Reade           Stehenesspir Obstick, Western Reade           Stehenesspir Obstick, Mestern Reade           Stehenesspir Obstick, Reader Reader           Dembergerspir Obstick, Reader Reader           Data Stehenesspir Obstick, Reader Reader           PS, La Trintana           PS, La Trintana <tr< td=""></tr<>
McGovers 1986         Home           Japp - 1864         Japp - 1864           Japp - 1864         Japp - 1865a           Japp - 1865a         Japp - 1865a           Japp - 1865a         Japp - 1865b           Japp - 1865b         Japp - 1865b           Japp - 186b         Japp - 1865b           Japp - 1865b         Japp - 1865b           Japp - 1865b         Japp - 1865b	Pesudorbitoides Pesudorbitoid	ep. long-spirale cf. feedmannel long-spirale cf. feedmannel long-spirale cf. feedmannel long-spirale traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional	%           Papp & Kupper           Douvlik           Papp & Kupper           Douvlik           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	6         6           584         589           589         589           589         589           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           50         50	Camparien Camparien Camparien Camparien Camparien Camparien Camparien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Camparien-Maastichtien Midde-Jade Maastichtien Midde-Jade Maastichtien Midde-Jade Maastichtien Liete Camparien	JAM PANG ALIT ALIT ALIT ALIT ALIT ALIT ALIT ALIT	CFP  ABP  BFA  BFA  BFA  BFA  BFA  BFA  B	%           143           142           Abb1, 5g -2           %           263.           7(26,27)           %           7(21,22)           %           7(23,30)           7(25)           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %<	Part Moressi, District, Western Roote           Silenergs; 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McGovers1986         Papp-1854           Papp-1854         Papp-1856           Papp-1856         Papp-1856           Papp-1856         Papp-1858           Papp-1858         Papp-1852           Papp-1858         Papp-1852           Papp-1858         Papp-1852           Papp-1852         Papp-1852           Papp-1852         Papp-1852           Papp-1852         Papp-1852           Papp-1852         Papp-1852           Papp-1852         Papp-1852 <td>Pesudorbioldes Pesudorbioldes Pesud</td> <td>en- long-spräke (ong-spräke (ong-spräke (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke)</td> <td>%           Papp &amp; Kupper           Dountilé           Papp &amp; Kupper           Dountilé           Papp &amp; Kupper           Dountilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %</td> <td>6         541           589         589           589         589           589         589           589         589           589         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           50         50</td> <td>Camparien Camparien Camparien Camparien Camparien Camparien Camparien Camparien Camparien Mostif chien Camparien-Mastif chien Camparien Mastif chien Middle Mastif chien Ide Camparien Middle Mastif chien Ide Camparien</td> <td>JAM PANG ALIT ALIT ALIT ALIT ALIT ALIT ALIT ALIT</td> <td>CFP  AQ  EFA  EFA  EFA  EFA  EFA  EFA  EFA</td> <td>%           443           444           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           441           442           443           443           444           445           445           445           445           441           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445      <t< td=""><td>Deck Moresspir, Marine American Reade           Stehenesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Benesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Benesspiressel (Stehruch)           Schutaren, Stehenesspiressel (Stehruch)           Schutaren, Stehenesspiressel (Stehruch)           Schutaren, Stehenesspiressel (Stehruch)           Data Gottierez           Tudie Outlierez           Tudie Outlierez           Ps. La Trintan           Ps. La Trintan</td></t<></td>	Pesudorbioldes Pesud	en- long-spräke (ong-spräke (ong-spräke (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke) (ong-spräke)	%           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	6         541           589         589           589         589           589         589           589         589           589         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           50         50	Camparien Camparien Camparien Camparien Camparien Camparien Camparien Camparien Camparien Mostif chien Camparien-Mastif chien Camparien Mastif chien Middle Mastif chien Ide Camparien Middle Mastif chien Ide Camparien	JAM PANG ALIT ALIT ALIT ALIT ALIT ALIT ALIT ALIT	CFP  AQ  EFA  EFA  EFA  EFA  EFA  EFA  EFA	%           443           444           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           441           442           443           443           444           445           445           445           445           441           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445 <t< td=""><td>Deck Moresspir, Marine American Reade           Stehenesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Benesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Benesspiressel (Stehruch)           Schutaren, Stehenesspiressel (Stehruch)           Schutaren, Stehenesspiressel (Stehruch)           Schutaren, Stehenesspiressel (Stehruch)           Data Gottierez           Tudie Outlierez           Tudie Outlierez           Ps. La Trintan           Ps. La Trintan</td></t<>	Deck Moresspir, Marine American Reade           Stehenesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Benesspir, Victoria, Marine American           Stehenesspir, Victoria, Marine American           Benesspiressel (Stehruch)           Schutaren, Stehenesspiressel (Stehruch)           Schutaren, Stehenesspiressel (Stehruch)           Schutaren, Stehenesspiressel (Stehruch)           Data Gottierez           Tudie Outlierez           Tudie Outlierez           Ps. La Trintan
McGovers 1986           Japp - 1864           Japp - 1864           Japp - 1864           Japp - 1865a           Japp - 1865a           Japp - 1865b           Japp - 186b           Japp - 186b <t< td=""><td>Pesudorbitoides Pesudorbitoides Pesudorbitoid</td><td>en- iong-sprivelie cf-freedynamic- (ong-sprivelie cf-freedynamic- (ong-sprivelie traditmarch- long-sprivelie traditsky straditsky straditsky straditsky straditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky traditsky 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McGovers 1986           Japp 1454           Japp 1454           Japp 1455a           Japp 1455a           Japp 1455a           Japp 1455a           Japp 1455b           Japp 145b           Jap 145b           Japp 145b	Pesudorbitoides Pesudorbitoid	en- long-sprivale eff-ted/marchi long-sprivale eff-ted/marchi long-sprivale eff-ted/marchi long-sprivale traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional tradition	%           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50 50 50 50	Camparien Campar	JAM PANG ALT ALT ALT ALT ALT ALT ALT ALT ALT ALT	CFP           ASP.           BFA           BFA           BFA           CFP	%           143           142           Abb. 1, 5g -2           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	Det Morsey, District, Western Reade           Silenerge, Winder, Kanner, Barrier, Barrier, Barrier, Barrier, Michael, Bargetation           Silenerge, Winder, Kanner, Barrier, Barrier, Barget, Joberhab, Bargetation           Silenerge, Silener, Michael, Stanker, Barrier, Barget, Joberhab, Bargetation           Silenerge, Silener, Michael, Stanker, Barget, Silener, Barget, Silener, Barget, Silener, Barget, Silener, Barget, Silener,
McGovers 1986         Papp -1864           Papp -1864         Papp -1864           Papp -1866         Papp -1866           Papp -1866         Papp -1866           Papp -1866         Papp -1863           Papp -1868         Papp -1863           Papp -1868         Papp -1863           Papp -1868         Papp -1863           Papp -1864         Papp -1863           Papp -1864         Papp -1863           Papp -1864         Papp -1864           Papp -1864         Papp -1864           Papp -1864         Papp -1864           Papp -1864         Papp -1864           Papp -1862         Papp -1862           Papp -1862         Papp -1862           Persong 1862         Papp -1862           Permod Silva & Bhuas 1981         Premod Silva & Bhuas 1981           Premod Silva & Bhuas 1981         Premod Silva & Bhuas 1981           Premod Silva & Bhuas 1981         Premod Silva & Bhuas 1981           Premod Silva & Bhuas 1981         Premod Silva & Bhuas 1981           Premod Silva & Bhuas 1981         Premod Silva & Bhuas 1981           Premod Silva & Bhuas 1981         Premod Silva & Bhuas 1981           Premod Silva & Bhuas 1981         Premod Silva & Bhuas 1981 <td< td=""><td>Pesudorbioldes Pesudorbioldes Pesud</td><td>en- long-sprävels (cf. festmanne) (cf. festmannne) (cf. festmannne) (cf. festmannne) (cf. festmannne) (cf. festmannne) (cf. festmannne) (cf. festmannn</td><td>%           Papp &amp; Kupper           Dountilé           Papp &amp; Kupper           Dountilé           Papp &amp; Kupper           Dountilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %</td><td>50 50 50 50</td><td>Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Maesti chien Camparian Maesti chien Millo de la Maesti chien Camparian Maesti chien Maesti chien Maesti chien Camparian Maesti ch</td><td>JAM PARG ALT ALT ALT ALT ALT ALT ALT ALT ALT MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX</td><td>CFP</td><td>%           443           444           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           441           442           443           443           444           445           445           445           445           441           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445      <t< td=""><td>Det Morespi, District, Western Roade           Stehengs, Victoria, Victoria, Parisher, Pamberger Riegel, oberhab: Bergstation           Stehengs, Victoria, Victoria, Pamberger Riegel, oberhab: Bergstation           Stehengs, Victoria, Victoria, Pamberger Riegel, oberhab: Bergstation           Stehengs, Victoria, Victo</td></t<></td></td<>	Pesudorbioldes Pesud	en- long-sprävels (cf. festmanne) (cf. festmannne) (cf. festmannne) (cf. festmannne) (cf. festmannne) (cf. festmannne) (cf. festmannne) (cf. festmannn	%           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Maesti chien Camparian Maesti chien Millo de la Maesti chien Camparian Maesti chien Maesti chien Maesti chien Camparian Maesti ch	JAM PARG ALT ALT ALT ALT ALT ALT ALT ALT ALT MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX	CFP	%           443           444           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           441           442           443           443           444           445           445           445           445           441           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445 <t< td=""><td>Det Morespi, District, Western Roade           Stehengs, Victoria, Victoria, Parisher, Pamberger Riegel, oberhab: Bergstation           Stehengs, Victoria, Victoria, Pamberger Riegel, oberhab: Bergstation           Stehengs, Victoria, Victoria, Pamberger Riegel, oberhab: Bergstation           Stehengs, Victoria, Victo</td></t<>	Det Morespi, District, Western Roade           Stehengs, Victoria, Victoria, Parisher, Pamberger Riegel, oberhab: Bergstation           Stehengs, Victoria, Victoria, Pamberger Riegel, oberhab: Bergstation           Stehengs, Victoria, Victoria, Pamberger Riegel, oberhab: Bergstation           Stehengs, Victoria, Victo
McGovers 1986           Japp 1454           Japp 1454           Japp 1455           Japp 1455a           Japp 1455a           Japp 1455b           Japp 245b           Japp 1455b           Japp 245b           Japp 1455b           Japp 245b           Japp 1455b           Japp 245b	Pesudorbitoides Pesudorbitoid	en- long-sprivale eff-ted/marchi long-sprivale eff-ted/marchi long-sprivale eff-ted/marchi long-sprivale traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional traditional tradition	%           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           Papp & Kupper           Dountilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50 50 50 50	Camparien Campar	JAM PANG ALT ALT ALT ALT ALT ALT ALT ALT ALT ALT	CFP           ASP.           BFA           BFA           BFA           CFP	%           143           142           Abb. 1, 5g -2           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	Part Moreson, District, Western Roote           Steleneggs, Victrict, Western Roote           Steleneggs, Victrict, Western Roote           Steleneggs, Victrict, Vestern Roote           Steleneggs, Victrict, Vestern Roote           Steleneggs, Victrict, Vestern Roote           Steleneggs, Victrict, Vestern Roote           Steleneggs           Pembergarrised (Stelenbruch)           Schuttering, Stelenbruch           Tutals Gutterez           Tutals Gutterez           Tutals Gutterez           Pay, La Trinitan           P3, La Trinitan           Parkern Ponce and Agutas, south-central Puerto Rico           South-c
McGovers 1986         Papp -1864           Papp -1864         Papp -1864           Papp -1866         Papp -1865           Papp -1865         Papp -1865           Papp -1865         Papp -1863           Papp -1865         Papp -1863           Papp -1864         Papp -1864           Papp -1864         Papp -1864           Papp -1864         Papp -1864           Papp -1862         Papp -1862           Papp -1862         Papp -1862           Papp -1862         Papp -1862           Papp -1862         Papp -1862           Paremd Shwa & Brusa 1981         Paremd Shwa & Brusa 1981           Paremd Shwa & Brusa 1981         Paremd Shwa & Brusa 1981           Paremd Shwa & Brusa 1981         Paremd Shwa & Brusa 1981           Paremd Shwa & Brusa 1981         Paremd Shwa & Brusa 1981           Paremd Shwa & Brusa 1981         Paremd Shwa & Brusa 1981           Paremd Shwa & Brusa 1981         Paremd Shwa & Brusa 1981           Paremd Shwa & Brusa 1981         Paremd Shw	Pesudorbioldes Pesud	en- long-sprävels (cf. festmanne) (cf. festmanne) (cg. sprävels (cg. sprävel	%           Papp & Kupper           Dewnlif           Papp & Kupper           Dewnlif           Sign           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50 50 50 50	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Camparian-Maastirkhien Maastirkhien Maastirkhien Maastirkhien Camparian Maastirkhien Camparian Maastirkhien	JAM PARG ALT ALT ALT ALT ALT ALT ALT ALT MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX	CFP	%           144)           142,           Abb. 1, 59,1           Abb. 1, 59,1           Abb. 1, 59,1           Abb. 1, 59,1           %           %           7(28,27)           %           %           %           %           7(21,22)           %           7(23,30)           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	Deat Moreasy, District, Western Reade           Steheregs; Victrict, Western Reade           Steheregs; Victrict, Western Reade           Steheregs; Victrict, Western Reade           Steheregs; Victrict, Western Reader, Steheren Steheren           Steheregs; Steherush)           Scillatting, Steherush)           Scillatting, Steherush)           Scillatting, Steherush           Scillatting, Steherush           Tuble Outherez           Tuble Outherez           Victrict, Vister           Scillatting, Steherush           Scillatting, Steherush           Partition           Scillatting, Steherush           Tuble Outherez           Victrict, Vister           Scillatting, Steherush           Tuble Outherez           Scillatting, Steherush           PS, La Trinitatia
McGovers 1986           Papp 1984           Papp 1984           Papp 19864           Papp 19862           Papp 19862           Papp 20190           P	Pesudorbioldes Pesudo	en- long-spräke (cf. testmanne) (cg. spräke (cf. testmanne) (cg. spräke (cf. testmanne) (cg. spräke (cg. spräke (cg. spräke) (cg. sp	%           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50 50 50 50	Campareiran Campareiran Campareiran Campareiran Campareiran Campareiran Campareiran Campareiran Campareiran Maestri chtien Campareiran Maestri chtien Midde Jastri chtien Midde Jastri chtien Liet Camparian Midde Maestrichtien Liet Camparian Maestrichtien Campareiran Maestrichtien Campareiran Maestrichtien Campareiran Maestrichtien	J.AM JAM AUT AUT AUT AUT AUT AUT AUT AUT	CFP           ASP           BFA           BFA           BFA           CFP	%           443           444           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           447           54           440           441           443           551           443           545           10(5)           10(6)           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %      <	Vert Messey, Vistrict, Western Reade           Steheregs, Vistrict, Western Reade           Steheregs, Vistrict, Western Reade           Steheregs, Vistrict, Vestern Reade           Steheregs, Vistrict, Vestern Reade           Steheregs, Vistrict, Vestern Reade           Steheregs, Vistrict, Vestern Reade           Steheregs           Penbergarrisgel (Stehruch)           Schultarter, Steheregg           Dealberges, Steheregg           Dealberges, Steheregg           Diaberge, Steheregg           Totals Outbergez           Totals Outbergez           Totals Outbergez           Sol, La Trintana           PS, La Trintana           Steherep Ponce and Adjuntas, south-centrial Puento Rico
McGovers 1986         Papp -1864           Papp -1864         Papp -1864           Papp -1864         Papp -1865           Papp -1865         Papp -1865           Papp -1862         Papp -1862           Papp -1862         Papp -1865           Papp -1862         Papp -1865           Papp -1862         Papp -1862	Pesudorbioldes Pesud	en- long-sprävels (cf. festmanne) (cf. festmanne) (cg. sprävels (cg. sprävel	%           Papp & Kupper           Devnillé           Papp & Kupper           Devnillé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50 50 50 50	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Camparian-Mastirkhien Mastirkhien Midde-Jath Mastirkhien Mastirkhien Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Camparian Mastirkhien Mastirkhien Mastirkhien Mastirkhien Mastirkhien	J.AM PARG ALT ALT ALT ALT ALT ALT ALT ALT MEX MEX MEX MEX MEX MEX MEX MEX MEX MEX	CFP           ASP.           BF4           BF4           BF4           CFP	%           144)           142,           44,           44,           44,           44,           44,           44,           44,           44,           44,           44,           44,           54,           7(2),           %           7(2),           %           7(2),           %           7(2),           %           7(23,30)           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	Part Moreaver, Vistrict, Western Roade           Steherage, Vistrict, Western Roade           Steherage           Pemberganised (Steheruch)           Scalating, Steherage           Pemberganised Steheruch)           Scalating, Steherage           Bereage Steheruch           Tuble Outbeerz           Tuble Outbeerz           Vist, La Trintation           Vist, La Trintation           P3, La Trintation <td< td=""></td<>
McGovers 1986           Papp 1984           Papp 1984           Papp 19864           P	Pesudorbioldes Pesudo	en- long-spräke (cf. testmanne) (cg.	%           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50 50 50 50	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Campar	J.AM JAM AUT AUT AUT AUT AUT AUT AUT AUT	CFP           ASP           BFA           BFA           BFA           CFP	%           443           444           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           445           447           54           440           441           443           551           443           545           10(5)           10(6)           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %      <	Part Morsey District Western Reade           Stehenegs Victoria Victorians, Karten           Stehenegs Victorians, Karten           Penhetergeringel (Stehruch)           Schuttergs Stehrandt           Tuble Outberez           Tuble Outberez           Tuble Outberez           Ps. La Trintana           Ps. L
McGovers 1985           Japp 1454           Japp 1454           Japp 1456           Japp 1456a           Japp 1456a           Japp 1456a           Japp 1456a           Japp 1456b           Japp 1452           Japp 1456b           Jap	Pesudorbioldes Pesud	etc.     iong-sprivale     cef. Feedmannel     iong-sprivale     cef. Feedmannel     iong-sprivale     cef. Feedmannel     iong-sprivale     cef. Teedmannel     iong-sprivale     israelsky	%           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50 50 50 50	Cemperien Cemperien Camperien Camperien Camperien Camperien Camperien Camperien Camperien Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Midde-Jate Masstrichten Camperien Masstrichten Camperien Masstrichten Camperien Masstrichten Masstrichten Masstrichten Camperien Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten	JAM JAN AJIT AJIT AJIT AJIT AJIT AJIT AJIT AJIT	CFP           ASP           BFA           BFA           BFA           BFA           BFA           CFP	%           144)           142,           44,           44,           44,           44,           44,           44,           44,           44,           44,           44,           44,           45,           7(2)           %           7(2)           %           7(2),           %           7(23,30)           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	Part Moreson, District Avestern Roote           Steheregs, Victrict Avestern Roote           Steheregs           Pembergarrised (Stehruch)           Sciultaring, Steheregs           Pembergarrised (Stehruch)           Tuble Gutterez           Tuble Gutterez           Tuble Gutterez           Statistical Stehruch           Sciultaring, Stehruch           Statistical Roote
McGovers 1986           Japp 1964           Japp 1964           Japp 1966           Japp 1967	Pesudorbioldes Pesud	en- long-spräke (cf. testmanne) (cg.	%           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50 50 50 50	Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Meestichtian Camparian Meestichtian Camparian Meestichtian Camparian Meestichtian Camparian Meestichtian Camparian Meestichtian Camparian Meestichtian Meestichtian Meestichtian Meestichtian Meestichtian	J.AM JAM AUT AUT AUT AUT AUT AUT AUT AUT	CFP           ASP           BFA           BFA           BFA           BFA           BFA           CFP	%           144)           142,           44,           44,           44,           44,           44,           44,           44,           44,           44,           44,           44,           45,           7(2)           %           7(2)           %           7(2),           %           7(23,30)           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	Part Moreson, District Avestern Roote           Steheregs, Victrict Avestern Roote           Steheregs           Pembergarrised (Stehruch)           Sciultaring, Steheregs           Pembergarrised (Stehruch)           Tuble Gutterez           Tuble Gutterez           Tuble Gutterez           Statistical Stehruch           Sciultaring, Stehruch           Statistical Roote
McGovers 1985           Japp 1454           Japp 1454           Japp 1456           Japp 1456a           Japp 1456a           Japp 1456a           Japp 1456a           Japp 1456b           Japp 1452           Japp 1456b           Jap	Pesudorbioldes Pesud	etc.     iong-sprivale     cef. Feedmannel     iong-sprivale     cef. Feedmannel     iong-sprivale     cef. Feedmannel     iong-sprivale     cef. Teedmannel     iong-sprivale     israelsky	%           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           Papp & Kupper           Deuntilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	50 50 50 50 50 50 50	Cemperien Cemperien Camperien Camperien Camperien Camperien Camperien Camperien Camperien Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Camperien-Masstrichten Midde-Jate Masstrichten Camperien Masstrichten Camperien Masstrichten Camperien Masstrichten Masstrichten Masstrichten Camperien Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten Masstrichten	JAM JAN AJIT AJIT AJIT AJIT AJIT AJIT AJIT AJIT	CFP           ASP           BFA           BFA           BFA           BFA           BFA           CFP	%           144)           142,           44,           44,           44,           44,           44,           44,           44,           44,           44,           44,           44,           45,           7(2)           %           7(2)           %           7(2),           %           7(23,30)           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	Part Morsey District Western Reade           Stehenegs Victoria Victorians, Karten           Stehenegs Victorians, Karten           Penhetergeringel (Stehruch)           Schuttergs Stehrandt           Tuble Outberez           Tuble Outberez           Tuble Outberez           Ps. La Trintana           Ps. L
McGovers 1986           Japp 1464           Japp 1464           Japp 1465a           Japp 1465b           Japp 146b           Jap 146b           Japp 146b <td>Pesudicitation           Pesudicitation           Pesudicitation</td> <td>etc.     iong-sprivale     cef. Feedmannel     iong-sprivale     cef. Feedmannel     iong-sprivale     cef. Feedmannel     iong-sprivale     cef. Teedmannel     iong-sprivale     israelsky     israelsky</td> <td>%           Papp &amp; Kupper           Deuntilé           Papp &amp; Kupper           Deuntilé           Papp &amp; Kupper           Deuntilé           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %</td> <td>50 50 50 50 50 50 50</td> <td>Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian Camparian 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	%	Sulcoperculina		9	6	8	
	%	%		%	6	8	,
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utterlin 1992 OD	DP (DSDP)	~				zone à Globotruncana calcarata	
Autterlin 1992 OD	DP (DSDP)	Asterorbis, Sulcoperculina			6	zone à Globotruncana gansseri	
OD OD	DP (DSDP)	Vaughanina, Sulcoperculina		9	6	zone à Gibbotruncana subspinosa (52.1), et G. calc	arata (51.3)
OD OD	DP (DSDP)	Lepidorbitoides, Orbitocyclina, Asterorbis, Sulcoperculina	a. Vaudanina	9	-	zone à Gbbotruncana gansseri	
lutterlin 1992	26	%					,
Butterlin 1992 DS	SDP	Lepidorbitoides, Sulcoperculina		9	6	8	,
	SDP	Vaughanina, Sulcoperculina		8	6	Maastrichtien supérieur (Douglas, 1973)	
Autterlin 1992	*	%		94	•	probablement synonyme de P. <i>israelskyi</i>	
Rutterlin 1992	*	*		*	6	Papp selbst hat dies angezweifelt	
Caudri 1944	%	Orbitoides, Lepidorbitoides, Vaughanina, Omphalocydus	s, ?Meandropsina	3	6	3	,
Caudri 1944 Dilley 1973 Tab	able 2	Orbitoides, Lepidorbitoides, Vaughanina, Omphalocydus	s, ?Meandropsina		6	3	)
rizzell 1954	abre 2 %	/0 %		^ Q	o	keine näheren Angaben zur Lokaliät	
rizzell 1954	%	96		9	6	keine näheren Angaben zur Lokaliät	
lanzawa 1962	%	%		9	6	Type species: P seudorbitoides trechmanni	
lanzawa 1962	%	%		9	6	8	
lanzawa 1962	%	%		%	6	8	,
lashimoto 1982	*	Omphaloo	aydus	sandstone conglomerate		*	•
lashimoto et al. 1978a Txt	xt fig. 1-3	Lepidorbitoides, Omphalocyclus, Siderolites, Orbitoides		sharpstone bearing conglomeratic sst.		*	,
lashimoto et al. 1978a T.xt	xt fig. 1 3	*		dark grey, banded limestone		Globotruncana lapparenti, G. sp.	
Hashimoto et al. 1978a Txt	xt fig. 1 3	*		block y lst., bedding plane uncertain		Globotruncana lapparenti, G. sp.	
Hashimoto & Matsumaru 1984 % (rijnen 1967 Fig	• iq.1			hard calcarenite, organoclastic, with conglomeratic layers n	*		•
	age 9	Sulcoperculina %		nard calcarenite, organoclastic, with conglomeratic layers n calcarenitic limestone lenses	our are wast		, ,
irijnen 1972 Pag	age 7	Sucoperculina		9	6		
	age 6	Sulcoperculina			6		
(rijnen 1972 Pag	age 7	Sulcoperculina		9	6	*	,
(rijnen 1972 Pag	age 7	Sulcoperculina		34	6	8	,
(rijnen 1972 Pag	age 7	Sulcoperculina		9	6	8	,
(rijnen 1972 Pag	age 7	Sulcoperculina		3	6	8	
rijnen 1972 Pag	age 7	Sulcoperculina		8	6	8	,
rijnen 1972 Pag	age 7	Sulcoperculina		3	6	8	
irijnen 1972 Pag Irijnen 1972 Pag	age 8 age 8	% Sulcoperculina		77	6 /	74	,
.oeblich & Tappan 1988	age o	Sucopercurina		2	0 (	7	,
.oeblich & Tappan 1988	~	2°			o 6		
.oeblich & Tappan 1988	~			9	6	3	
oeblich & Tappan 1988	%	%			6	8	
oeblich & Tappan 1988	%	96		9	6	8	,
oeblich & Tappan 1988	%	%		9	6	8	
AcGowran 1968	%	Orbitoides		94	6	*	,
Papp 1954	*	Siderolites, Orbitoides		*	6	*	,
Papp 1954	*	Orbitoides, Siderolites		9	•		•
Papp 1955a	***	**		*	•	**	
Papp 1955a Papp 1955b Abb		Orbitoides (tissoti, media), Siderolites vidali		Sandstein und Mergel	•		
App 1955b Abt	bb-2	Lepidorbitoides minima, Orbitoides (tissoti, media), Sider	rolites videli	Sandstein und Mergel		2	
Papp & Küpper 1953b	%	%		9	6	holotypus	
Pécheux 1984	%	Orbitoides, Orbitocyclina, Asterorbis, Sulcoperculina		grès, parfois calcaires ou conglomératiques, et de marnes		8	,
Pécheux 1984	%	Orbitoides, Orbitocyclina, Asterorbis, Sulcoperculina		grès, parfois calcaires ou conglomératiques, et de marnes		*	,
écheux 1984	%	Orbitoides, Orbitocyclina, Asterorbis, Sulcoperculina		grès, parfois calcaires ou conglomératiques, et de marnes		8	,
Pécheux 1984 Pécheux 1984	76	Orbitoides, Orbitocyclina, Sulcoperculina, ?Kathina		calcaires gréseux calcaires blancs		[%]	·
écheux 1984 écheux 1984	70 96	Sulcoperculina, Torreina, Pithonella Torreina, Sulcoperculina, Globotruncana, Heterohelix, Pi	toopella	calcaires blancs calcaires fins, de couleur blanche à café au lait, parfois légé	arement mameury	3	
écheux 1984	%	Torreina, Sulcoperculina, Globotruncana, Heterohelix, Pi Torreina, Sulcoperculina, Globotruncana, Heterohelix, Pi	thonella	calcaires fins, de couleur blanche à cale au fait, pariois légé calcaires fins, de couleur blanche à café au lait, parfois légé	rement mameux	2 2	
écheux 1984	%	Torreina, Sulcoperculina, Globotruncana, Heterohelix, Pi	thonella	calcaires fins, de couleur blanche à café au lait, parlois légé	erement marneux	2	
écheux 1984	%	Orbitoides, Orbitocyclina, Sulcoperculina, ?Kathina		calcaires gréseux		8	
écheux 1984	%	Torreina, Sulcoperculina, Globotruncana, Heterohelix, Pi		calcaires fins, de couleur blanche à caté au lait, partois légè		8	,
écheux 1984	%	Torreina, Sulcoperculina, Globotruncana, Heterohelix, Pi	thonella	calcaires fins, de couleur blanche à café au lait, partois légé	erement marneux	8	,
	%	%				Nebata anna fachata k	a man a thin a satisfier
	xt-fig. 1	Miliolids, Sulcoperculina, Vaughanina		massive limestone		Globotruncana fornicata-lapparenti-stuarti assembla	ge zone; thin section
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ressagno 1962 Txt ressagno 1962 Txt	xt-fig. 1	Miliolids, Sulcoperculina		massive limestone	4		
Pessagno 1962 Txt Pessagno 1962 Txt Pessagno 1962 Txt				8	6	2 02	
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essagno 1962         Txt           ermoll Silva & Brusa 1981         Fig           premol Silva & Brusa 1981         Fig           ermoll Silva 1985         Pag           erx1955         Pag           Scales Dominguez et al. 1994         Pag           Scales Dominguez et al. 1984         Fig           Schlanger & Premoll Silva 1981         Fig           Schlanger & Premoll Silva 1981         Fig           Schlanger & Premol Silv	x1 4g, 1 (g, 5 (g, 5))))))))))))))))))))))))))))))))))))	Miliolids, Sulcoperculina % Globorotalia gansseri % Globorotalia gansseri % vaughanina, Globorotalia calcarata % % Globorotalia gansseri Globorotalia gansseri Globorotalia gansseri Globorotalia calcarata % % % Sulcoperculina, Asterotbis, Aktinorbitoldes, Vaughanina, Sulcoperculina %		imestone 9 packstone con fragmentos biógenos within vulcanidadio strata reefo	6	Core 52.1, Depth: 98-101 cm Core 51.3, Depth: 44-47 cm Core 48 soup Core 52.1, Depth: 98-101 cm Core 52.1, Depth: 98-101 cm Core 51.52, Pesudohtiloids-Vaughanina assemblage Core 7.1, Pesudohtiloids-Vaughanina assemblage Core 17. Pesudohtiloids-Vaughanina assemblage Core 17. Pesudohtiloids-Vaughanina assemblage Core 17. Pesudohtiloids-Vaughanina assemblage	22 22

Seiglie & Ayala-Castanares 1963	Pseudorbitoides	rutteni	Brönnimann	1	early Maestrichtian	CUB	CFP	11(1); 12(1,3); 13(2)	Lado SW/ de la Ioma La Pena, al N de Arroyo Blanco, Jatibonico, Prov. De Camagüey
Seiglie & Avala-Castanares 1963	Pseudorbitoides	rutteni	Brörnimann	1	early Maestrichtian	CUB	CFP	*	Lado SW/ de la loma La Pena, al N de Arrovo Blanco, Jatibonico, Prov. De Camaquev
Seiglie & Avala-Castanares 1963	Pseudorbitoides	rutteni	Brörnimann	1	early Maestrichtian	CUB	CFP	10(2-3); 11(1); 13(1)	LadoN de la loma La Pena, al N de Arroyo Blanco, Jatibonico, Prov. De Camaqüey
					,				
Seiglie & Ayala-Castanares 1963	Pseudorbitoides	rutteni	Brönnimann	1	early Maestrichtian	сив	CFP	%	Foblado de Quemadito, en el camino de Fomento a Sta. Lucía, Prov. Las Villas
Seiglie & Ayala-Castanares 1963	Pseudorbitoides	rutteni	Brönnimann	1	early Maestrichtian	CUB	CFP	%	Cantera Penalver, en el tramo de la Vía Monumental entre la Vía Blanca y la Carretera Central, Prov. La Habana
Seiglie & Ayala-Castanares 1963	Pseudorbitoides	israelskvi	Vaughan & Cole	4	Campanian	USA	CFP	%	Louisiana
Seiglie & Ayala-Castanares 1963	Pseudorbitoides	israelskvi	Vaughan & Cole	68	Campanian	MEX	CFP	%	Néxico
Seiglie & Ayala-Castanares 1963	Pseudorbitoides	israelskyl	Vaughan & Cole	10	Campanian	VEN	CFP	%	Venezuela
Seiglie & Avala Castanares 1963	Pseudorbitoides	israelskvi	Vaughan & Cole	51	Campanian	PNG	ASP.	94	Nueva Guinea
Seiglie & Ayala-Castanares 1963	Pseudorbitoides	israelskvi	Vaughan & Cole	7	Campanian	нті	CFP	e v	Hat
Seiglie & Avala-Castanares 1963	Pseudorbitoides	israelskvi	Vaughan & Cole	8	Campanian	HND	CEP	20 94	Honduras Británica
Seiglie & Avala-Castanares 1963	Pseudorbitoides	israelsky	Vaughan & Cole	12	Campanian	USA	CFP	% %	Fuerto Rico
	Pseudorbitoides			4		CUB	CEP	, io 97	Cuba
Seiglie & Avala-Castanares 1963	Pseudorbitoides	israelský israelski	Vaughan & Cole	4	Campanian late Cretaceous	USA	CEP	70	Cuura Franklin Parish. Louisiana
Vaughan & Cole 1943	Pseudorbitoides		Vaughan & Cole Douvillé	4 0	late Cretaceous	LAM	CEP	17(1-2) 17(5-6)	ria iki in Parisi, Louisana Green Island, Jamaica
Vaughan & Cole 1943	Pseudorbitolides	trechmanni	Diouwine	0	liate cretabeous	D MM	ULL.	17(5-6)	oreen saint, sainaica
Vaughanina									
Publication	Genus	Species	Reference	Loc-No	Stratigraphic Age	Country	Faunal Province	Illustration	Site
Avala-Castanares 1963	Vaughanina	cubensis	Palmer	1	late Maastrichtian, evtl. teilweise early	CUB	CFP	%	cetween Ocozocuautla and Ocuilapa, ca. 100 m adelante de la Cruz del Alto de Ocuilapa; afloramiento en el piso del camino
Avala-Castanares 1963	Vaughanina	cubensis	Palmer	1	late Maastrichtian, evtl. teilweise early	CUB	CFP	ŵ.	afloramiento en el piso del mismo camino, ca. 150 m adelante de la localidad 102 Chis.
Ayala-Castanares 1963	Vaughanina	cubensis	Palmer	4	late Maastrichtian, evtl. teilweise early	CUB	CFP	e e e e e e e e e e e e e e e e e e e	sitoramiento sobre el piso, ca. 150m adelante de la localidad A/27-57
Brönnimann 1954b	Vaughanina	cubensis	Palmer	1	late Cretaceous	CUB	CEP	17(6)	micraine to solve explosive. To solve a to carried the random weather and the solve an
Brönnimann 1954b	Vaughanina	cubensis	Palmer	4	Mæstrichtian	CUB	CFP	17(0) «	v. or central san Antonio, failload to central Hersney, Habara Province, cuba
Brönnimann 1954b	Vaughanina	cubensis	Palmer Palmer	Ľ.	Maestrichtian late Cretaceous	USA	CFP	200 av	Florida
		cupensis		L.	late Cretadeous	USA VEN	CEP .		
Brönnimann 1954b	Vaughanina	cubensis	Palmer	10	late Cretaceous	VEN	CFP		Venezuela
Brönnimann 1954b	Vaughanina	cubensis	Palmer	э	late Cretaceous	GTM	CFP	<b>%</b>	southern Petén, Guatemala
Brönnimann 1954b	Vaughanina	cubensis	Palmer	14	late Cretaceous	MEX	CFP	%	Veracruz, Mexico
Brönnimann 1954b	Vaughanina	cubensis	Palmer	13	late Cretaceous	D.W.I.	CFP	%	Bonaire, D.WJ
Brönnimann 1954b	Vaughanina	cubensis	Palmer	1	late Cretaceous	CUB	CFP	%	Santa Clara (Las Villas) Province and Camagücy Province, Cuba
Brönnimann 1954b	Vaughanina	sp.	%	%	Maestrichtian	%	%	%	%
Brönnimann 1954b	Vaughanina	sp.	%	1	Maestrichtian	CUB	CFP	%	southern Santa Clara
Brönnimann 1954b	Vaughanina	cubensis	Palmer	1	Maestrichtian	CUB	CFP	%	Camagüey Province
Brönnimann 1954b	Vaughanina	cubensis	Palmer	1	late Cretaceous	CUB	CFP	%	rear Habana
Brönnimann 1954b	Vaughanina	cubensis	Palmer	2	late Cretaceous	USA	CFP		Florida
Brönnimann 1954b	Vaughanina	<b>6</b> 0	<u>%</u>	2	early Cretaceous	USA	GEP.	94	Florida
Brönnimann 1954b	Vaughanina	cubensis	Palmer	4	Senorian to Danian-Montian	CUB	CFP	e e e e e e e e e e e e e e e e e e e	Oriente Province
Brönnimann 1954b	Vaughanina	cubensis	Palmer	4	Cretaceous	CUB	CFP	%	Central San Artonio, Habana Province
Brönnimann 1954b	Vaughanina	cubensis	Palmer	4	Cretapeous	CUB	CFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Central San Artoni, Habara Province
Brönnimann 1954b		cubanele	Palmer	1	Delegence	CUB		16(1,6 9) 18(1 7,9 10)	Central San Antonio, Habana Province
Brönnimann 1954b	Vaughanina	cubensis	Palmer	+	Maastrichtian		CEP.	10(1.6 8) 10(1 / 8 10)	Ventral San Androne, Reparts Province
Brönnimann 1954b	Vaughanina	cubensis	Palmer	1	mastrichtian middle-late Maestrichtian	CUB	CEP	104 0 5 400 4 7 4 5 40 (D)	HINAR GELKIO PROVINCE
	Vaughanina			1				16(1-3,5,10),17(1-5), 18(8)	
Brönnimann 1954b	Vaughanina	barkeri	Brönnimann	14	late Cretaceous	MEX	CFP	18(1-3)	Chalchijapa River, Isthmus of Tehuantepec, State of Veracruz, Mexico
Brönnimann 1954b	Vaughanina	cubensis	Palmer	1	%	CUB	CFP	16(11)	Las Villas Province
Brönnimann 1957	Vaughanina	cubensis	%	2	late Maastrichtian	USA	CFP	%	Nassau County, Florida
Brönnimann 1958a	Vaughanina	cf. barkeri	Brönnimann	1	late Campanian or early Maastrichtian	CUB	CFP	%	central Camagüey Province, 4 km NE of Majagua
Brönnimann 1958b	Vaughanina	jordanae	Brörnimann	2	late Cretaceous	USA	CFP	1(4-7)	Glades County, Florida
Brönnimann 1958b	Vaughanina	guatemalensis	Brönnimann	9	Maastrichtian	GTM	CFP	1(8)	Cobán area, Guatemala
Butterlin 1967	Vaughanina	cubensis	Palmer	14	middle or late Maastrichtian	MEX	CFP	%	Forage Mulato No.1. Municipio de Loma Bonita (Etat d'Oaxaca, près de la frontière avec l'État de Vera Cruz)
Butterlin 1967	Vaughanina	barkeri	Brönnimann	14	late Campanian or early Maastrichtian	MEX	CFP	%	Sierra de Guzmantia. Section V. région de Atoyac (Ètat de Vera Cruz)
Butterlin 1981	Vaughanina	jordanae	Brönnimann	68	Maastrichtian	MEX	CFP	30(4,5)	Mexico, Caribe
Butterlin 1981	Vaughanina	cubensis	Palmer	68 68	late Campanian-Maastrichtian	MEX	CFP	30(6,7)	Mexico, Caribe
Butterlin 1981	Vaughanina	barkeri	Brönnimann	68	late Campanian-early Maastrichtian	MEX	CFP	30(8,9)	Mexico, Caribe
Butterlin 1981	Vaughanina	guatemalensis	Brönnimann	68	late Campanian-early Maastrichtian	MEX	CFP	30(10)	Mexico, Caribe
Butterlin 1992	Vaughanina	cf. barkeri	Brönnimann	50	late Campanian	NRU	CFP	1(8)	(_eg 61-Site 462-51.3-44/47(7))
Butterlin 1992	Vauqhanina	cf, barkeri	Brönnimann	50	late Campanian	NRU	CFP	1(9)	(_eq 61-Site 462-51.3-44/47(8))
Butterlin 1992	Vaughanina	cubensis	%	50	late Campanian	NRU	CFP	%	tosse de Nauru (Leg 61, Site 462, sections 52.1 et 51.3)
Butterlin 1992	Vaughanina	sp.	%	50	middle Maastrichtian	NRU	CFP	%	fosse de Nauru (Leg 61, Site 462, sections 48.1 et 48.2)
Butterlin 1992	Vaughanina	sp.	%	67	middle Maastrichtian	USA	CFP	%	su sud d'Havaei (Leg 17, Site 165 A)
Caudri 1944	Vaughanina	cubensis	Palmer	1	Maastrichtian	CUB	CFP	%	Cuba
Causet al. 2002	Vaughanina	cf, cubensis	Palmer	52	middle-late Campanian	MEX	CFP	%	Cárdenas Basin; San Luis Potosí, NE Mexico
					and a second sec		1	~	
Dilley 1973	Vaughanina	sp.	Palmer	%	Maastrichtian	%	CFP	%	Northern America, Central America
Ellis & Messina 1967	Vauqhanina	barkeri	Brömimann	14	Maastrichtian	MEX	CFP	(1-4)	Veracruz Mexico
Ellis & Messina 1967	Vaughanina	cubensis	Palmer	k'	late Cretaceous	CUB	CEP	(1-5)	Havan Prov. Cuba
Ellis & Messina 1967	Vauqhanina	cubensis	Palmer	li i	late Cretaceous	CUB	CFP	(6-10)	Havena Cuba
Ellis & Messina 1967	Vauqhanina	cubensis	Palmer	i.	late Cretaceous	USA	CEP	(23-24)	nassau County, Florida
Ellis & Messina 1967 Ellis & Messina 1967		cubensis	Palmer Palmer	40	late Cretaceous late Cretaceous; Danian-Montian (Paleocene)	D WL	CFP		Massau Courny, Fiorida Bonaire
Ellis & Messina 1967 Ellis & Messina 1967	Vaughanina	cubensis	Paimer	13	late Cretaceous; Danian-Montian (Paleocene) late Cretaceous; Danian-Montian (Paleocene)		CEP	(25)	bonaire Cuba
	Vaughanina			Ľ		CUB	CFP	(25)	
Ellis & Messina 1967	Vaughanina	cubensis	Palmer	L.	late Cretaceous	CUB		(26-29)	Cuba
Ellis & Messina 1967	Vaughanina	cubensis	Palmer	00	Maastrichtian	VEN	CFP	(30-33)	San Sebastian, Venezuela
Ellis & Messina 1967	Vaughanina	guatemalensis	Brönnimann	8	Maastrichtian	GTM	CFP	(1-7)	Alta Verapaz Prov., Guatemala
Ellis & Messina 1967	Vaughanina	jordanae	Brörnimann	2	Maastrichtian	USA	CFP	(1-16)	Glades County, Florida
Hanzawa 1962	Vaughanina	cubensis	Palmer	\$ 	%	8	CFP	3(43-45)	Caribbean-Gulf of Mexico region
Hanzawa 1962	Vaughanina	cubensis	Palmer	%	%	%	CFP	7(5)	Caribbean-Gulf of Mexico region
Hanzawa 1962	Vaughanina	barkeri	Brönnimann	%	%	%	CFP	7(6)	Caribbean-Gulf of Mexico region
Hanzawa 1962	Vaughanina	sp.	Palmer	%	%	%	CFP	··· %	Caribbean-Gulf of Mexico region
Hanzawa 1962	Vaughanina	barkeri	Brönnimann	%	late Cretaceous	%	CFP	7(6)	Caribbean-Gulf of Mexico region
Loeblich & Tappan 1988	Vaughanina	sp.	Palmer	1	late Campanian-Maastrichtian	CUB	CFP	%	Cuba
Loeblich & Tappan 1988	Vaughanina	sp.	Palmer	2	late Campanian-Maastrichtian	USA	CFP	%	Florida
Loeblich & Tappan 1988	Vaughanina	sp.	Palmer	68	late Campanian-Maastrichtian	MEX	CFP	%	Mexico
Loeblich & Tappan 1988	Vaughanina	sp.	Palmer	9	late Campanian-Maastrichtian	GTM	CFP	%	Quaternala
Loeblich & Tappan 1988	Vaughanina	sp.	Palmer	10	late Campanian-Maastrichtian	VEN	CFP	%	Venezuela
Loeblich & Tappan 1988	Vaughanina	cubensis	Palmer	1	late Cretaceous	CUB	CFP	749(1,3-6,8)	Habana Prov., Cuba
Loeblich & Tappan 1988	Vaughanina	cubensis	Palmer	h	late Cretaceous	CUB	CEP	749(2,7)	Matanzas Prov. Cuba
Krijnen 1972	Vaughanina	cubensis	Palmer	Й	%	CUB	CEP	27(1-3)	Bermudez Station 239; one km west of Central San Antonio, Madruga, Prov. Matanzas (= R H Palmer 1214), Cuba
Palmer 1934	Vaughanina	cubensis	n, sp.	1	late Cretaceous	CUB	CFP	12(5); 13(2,4)	I km Wolf Central San Antonio nalingadi Central Hershev, Havana Province
Pécheux 1984	Vaughanina	cubensis	96.	3	Campanian-Maastrichtian	MEX	CEP		Turdia Caffeera
Pécheux 1984	Vaughanina	cubensis	10 96	K.	Campanian-Maastrichtian	MEX	CEP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tudia Guiderez
Pécheux 1984	Vaughanina	cubensis	%	۲ «	Sampan Ibi Printikati Giliani	MEX	CFP	7(23)	Name Guidelez
p concar 1004	La condiciona de las	Louiserique	70	0.	1 20	PARTY	los c	h (rea)	70

Seiglie & Ayala-Castanares 1963	Page 12	Torreina, Sulcoperculina	Caliza masiva algo detrítica de color blanco rosáceo con macroforaminíteros	Zona de Orbitoides media-P seudorbitoides rutteni
Seiglie & Ayala-Castanares 1963	Page 12	Torreina, Sulcoperculina	Caliza masiva algo detrítica de color blanco rosáceo con macroforaminí feros	Zona de Orbitoides media-Pseudorbitoides rutteni
Seiglie & Ayala-Castanares 1963	Page 12	Sulcoperculina	Caliza masiva, color rosáceo, con numerosos foraminíferos	Zona de Orbitoides media-P seudorbitoides rutteni
	-		grandes y superficies estriadas del deslizamiento	
Seiglie & Ayala-Castanares 1963	Page 14	Orbitoides, Avalaina	Conglomerado calcáreo gris, con abundantes foraminí feros grandes	Zona de Orbitoides media-Pseudorbitoides rutteni
Seiglie & Ayala-Castanares 1963	Page 15	Omphalocyclus, Orbitoides, Lepidorbitoides, Vaughanina, Sulcoperculina, Rhapydionina	Calcirudita a calcarenita, dura, consolidada, color gris claro	Zona de Orbitoides media-Pseudorbitoides rutteni
Seiglie & Ayala-Castanares 1963	- %	%	%	Zona de Orbioitdes tissoti-Sulcorbitoides pardoi
Seiglie & Ayala-Castanares 1963	%	%	%	Zona de Orbioitdes tissoti-Sulcorbitoides pardoi
Seiglie & Ayala-Castanares 1963	%	%	96	Zona de Orbioitdes tissoti-Sulcorbitoides pardoi
Seiglie & Ayala Castanares 1963	*	3%	36-	Zona de Orbioitdes tissoti Sulcorbitoides pardoi
Seiglie & Ayala-Castanares 1963	%	%	96	Zona de Orbioitdes tissoti-Sulcorbitoides pardoi
Seiglie & Ayala-Castanares 1963	%	%	%	Zona de Orbioitdes tissoti-Sulcorbitoides pardoi
Seiglie & Ayala-Castanares 1963	%	%	96	Zona de Orbioitdes tissoti-Sulcorbitoides pardoi
Seiglie & Ayala-Castanares 1963	%	%	%	Zona de Orbioitdes tissoti-Sulcorbitoides pardoi
Vaughan & Cole 1943	%	%	%	Evansville Investment Co., sec. 2, T. 14 N., R. 8 E., Depth: between 4167-4172 feet
Vaughan & Cole 1943	%	%	%	%

#### Vaughanina

yala-Castanares 1963 yala-Castanares 1963 wala-Castanares 1963 trònnimann 1954b trònnimann 1954b trònnimann 1954b trònnimann 1954b	Page 62 Page 62 Page 63 Page 93	Orbitoides, Sulcoperculina Orbitoides, Sulcoperculina Orbitoides, Sulcoperculina	areniscas de color amarillo, que intemperizan en pardo amarillento areniscas de color amarillo, que intemperizan en pardo amarillento areniscas de color amarillo, que intemperizan en pardo amarillento	% %
vala-Castanares 1963 Irönnimann 1954b Irönnimann 1954b Irönnimann 1954b Irönnimann 1954b Irönnimann 1954b	Page 62 Page 63	Orbitoides, Sulcoperculina	areniscas de color amarillo, que intemperizan en pardo amarillento	%
vala-Castanares 1963 rönnimann 1954b rönnimann 1954b rönnimann 1954b rönnimann 1954b rönnimann 1954b	Page 63			96
önnimann 1954b önnimann 1954b önnimann 1954b önnimann 1954b önnimann 1954b				
onnimann 1954b onnimann 1954b onnimann 1954b onnimann 1954b	1. mg = 00	96		w w
önnimann 1954b önnimann 1954b önnimann 1954b	96	a c		
nnimann 1954b nnimann 1954b		9 <u>6</u>		96
ónnimann 1954b	~	10	~	20
	70	70	20	70
	96	36	26	<b>%</b>
innimann 1954b	%	96	96	%
ónnimann 1954b	%	96	96	%
önnimann 1954b	%	%	%	%
önnimann 1954b	%	Lepidorbitoides, Pseudorbitoides, Orbitoides, Sulcoperculina, ?Archaias	%	%
innimann 1954b	%	Lepidorbitoides. Orbitoides	%	%
innimann 1954b	96	Sulcoperculina	96	96
önnimann 1954b	96	Sulcoperculina, ?Meandropsina	96	
önnimann 1954b	~	Pseudorbitoides, Orbitoides	<u> </u>	Depth: 2985-3000 ft
önnimann 1954b	~	Pseudorbitoides, Orbitoides	~	
onnimann 1954b	%	Omphalocyclus, Orbitoides, Lepidorbitoides, Sulcoperculina	26	%
önnimann 1954b	Page 95	%	%	redeposited
innimann 1954b	Page 95	96	96	%
innimann 1954b	Page 95	%	*	redeposited
ónnimann 1954b	Page 95	Sulcoperculina, Omphalocyclus, Cuneolina; G. stuarti	%	%
önnimann 1954b	Page 95	?Meandropsina, Sulcoperculina; G. mayaroensis	96	%
önnimann 1954b		96	%	%
önnimann 1954b		ν. γ		ý.
önnimann 1957	96	Vaughanina, Orbitoides, Sulcoperculina	0,	Depth: 2985-3000 ft
	Tout Fig. 1		dark arou hard from antel linestance costel or face roadel	
innimann 1958a	Text-Fig. 1	Sulcoperculina, G. fornicata, G. contusa, G. rosetta, G. stuarti, G. ex gr. lapparenti	dark gray, hard fragmental limestone; reefal or fore-reefal	Cuban American Cristales well no. 1A; Depth 2789-2808 ft,
	~~~~~			2808-2838 ft; stratigraphic sequence not undisturbed
önnimann 1958b	%	Sulcoperculina, Pseudorbitoides, Lepidorbitoides, Orbitoides, Orbitocyclina	cream white microcoquinoid calcilutite	well cutting, Coastal Petroleum Company No.1,
	1			T 42 s - R33 E - Sec. 25; Depth: 6180-6200 tt
innimann 1958b	%	Orbitocyclina, Orbitoides, Sulcoperculina, Siderolites	hard, dense, whitish to very pale orange limestone	%
tterlin 1967	%	Sulcoperculina, Orbitoides	%	Depth: 851,3-854,4m
tterlin 1967	%	Sulcoperculina	%	%
tterlin 1981	%	%	*	%
tterlin 1981	96	96		
atterlin 1981	%	96	94	90
utterlin 1981	~	70	70	20 00
	70	70	70	70 Abor 17, barloni (Butterlin 1000)
utterlin 1992	ODP (DSDP)	70	70	eher V. barkeri (Butterlin 1992)
utterlin 1992	ODP (DSDP)	%	%	zone à Globotruncana gansseri, eher V. barkeri (Butterlin 1992)
utterlin 1992	ODP (DSDP)	Pseudorbitoides, Sulcoperculina	%	zone à Globotruncana subspinosa et G. calcarata;
				eher V. barkeri (Butterlin 1992)
utterlin 1992	ODP (DSDP)	Lepidorbitoides, Orbitocyclina, Sulcoperculina, Pseudorbitoides	%	zone à Globotruncana gansseri; eher l/. barkeri (Butterlin 1992)
utterlin 1992	DISDP	Pseudorbitoides, Sulcoperculina	%	Maastrichtien supérieur (Douglas 1973)
audri 1944	96	Orbitoides, Pseudorbitoides, Lepidorbitoides, Omphalocyclus, ?Meandropsina	%	%
aus et al. 2002	Page 138	Lepidorbitoides, Sulcoperculina, Orbitoides	sity limestone and argillaceous marl, intercalations of limestone rich in rudists, other molluscs;	94
	1. 490 100	make and a second s	open marine environment with terrigenous input	~
ley 1973	table II	*	oper manine environment with ten igenous input	×
	Laivie II	70	70	70 W
lis & Messina 1967	76	76	1 76	<u>*</u>
lis & Messina 1967	%	%	%	%
s & Messina 1967	%	%	%	%
is & Messina 1967	%	%	%	%
s & Messina 1967	%	%	%	%
s & Messina 1967	%	%	%	%
is & Messina 1967	%	%	96	%
s & Messina 1967	9K		l ~ ~	
is & Messina 1967	96	00		20 92
	~	, n v	~	/* *
is & Messina 1967	76	70	70	70
inzawa 1962	%	%		%
nzawa 1962	%	%	%	%
inzawa 1962	%	96	%	%
inzawa 1962	%	%	%	Type species: Vaughanina cubensis
nzawa 1962	%	%	%	%
eblich & Tappan 1988	%	%	%	%
eblich & Tappan 1988	%	%		
eblich & Tappan 1988	96	96	26	l %
	~	0. 0.		00 00
eblich & Tappan 1988	70	76	70	» «
eblich & Tappan 1988	*	* ~	2	» ~
	%	%	%	×
	%	%	%	%
eblich & Tappan 1988 eblich & Tappan 1988	Page 10	%	%	%
eblich & Tappan 1988				
eblich & Tappan 1988	%	Orbitoides (palmeri, browni)	%	%
eblich & Tappan 1988 inen 1972 Imer 1934		Orbitoides (palmeri, browni) Orbitoides Orbitocyclina, Sulcoperculina, Chubbina	% marnes préseuses et de calcaires micritiques	%
	%	Orbitoides (palmeri, browni) Orbitoides, Orbitocyclina, Sulcoperculina, Chubbina Orbitoides, Orbitocyclina, Sulcoperculina, Chubbina	% marnes gréseuses et de calcaires micritiques marnes gréseuses et de calcaires micritiques	% % %

Pessagno 1962	Vaughanina	cubensis	%	%	%	MEX	CFP	7(24)		%
essagno 1962	Vaughanina	cubensis	Palmer	12	early Maastrichtian	USA	CFP		%	tetween Ponce and Adjuntas, south-central Puerto Rico
1002	Vaughanina	cubensis cubensis	Palmer Palmer	12	Middle-late Maestrichtian	USA USA	CFP		%	west of Penuelas, south-central Puerto Rico south-central Puerto Rico
ssagno 1962 ' emoli Silva & Brusa 1981 '	Vaughanina Vaughanina	cubensis	Palmer	50	Campanian late Campanian	NRU	CFP	1(1,2,4-6)	76	Sour-central Poento Rico
	v dugi la li la	Caboridio	i unici	00	and comparison					
emoli Silva & Brusa 1981	Vaughanina	sp.	%	50	late Campanian	NRU	CFP	1(3); 10(10)		Site 462, Nauru Basin
	Vaughanina	sp.	%	50	late Campanian	NRU	CFP	2(1,2)		Site 462, Nauru Basin
	Vaughanina	cubensis	Palmer	50	late Campanian	NRU	CFP	2(3-5,7,8)		Site 462 Nauru Basin
	Vaughanina Vaughanina	jordanae cubensis	Brönnimann Palmer	50	late Campanian late Campanian	NRU NRU	CFP CFP	2(6); 3(5) 3(6.8.9)		Site 462, Nauru Basin Site 462 Nauru Basin
	Vaughanina Vaughanina	cupenais	Pamer	50 50 50	late Campanian	NRU	CFP	3(0,0,9) 4(2); 5(1)		Site 462 Naturu Dasin Site 462 Naturu Basin
	Vaudhanina	cubensis	%	50	late Campanian	NRU	CFP	5(2); 7(4); 12(10)		Site 462 Nauru Basin
moli Silva & Brusa 1981	Vaughanina	SP.	%	50	middle Maastrichtian	NRU	CFP	7(2)		Site 462 Nauru Basin
emoli Silva & Brusa 1981	Vaughanina	cubensis	Palmer	50 50	late Campanian	NRU	CFP	10(9)		Site 462 Nauru Basin
moli Silva & Brusa 1981	Vaughanina	sp.	%	50	Campanian	NRU	CFP		%	Hole 462; Nauru Basin
	Vaughanina	sp.	%	50	Campanian	NRU	CFP		%	Hole 4624; Nauru Basin
moli Silva & Brusa 1981 1 nz 1955 1	Vaughanina	sp. cubensis	% Palmer	49	Maastrichtian Maestrichtian	KIR VE N	CFP	3(4-8); 4(1-2)	%	Hole 1654; Line Islands Faso Copey, west of San Sebastián, State of Aragua
sales Dominguez et al. 1994	Vaughanina Vaughanina	so so	r ainei %	3	late Campanian-Maastrichtian	MEX	CFP	3(4-0) 4(1-2)	%	Río Suchiapa, SE de Tuxta Gutiérrez
sales Dominguez et al. 1994	Vaughanina	cubensis	°ć	3	late Campanian-Maastrichtian	MEX	CFP	4(1)	~	Río Suchiapa, SE de Tuxta Gutiérrez
	Vaughanina	sp.	%	50	Campanian	NRU	CFP		%	Site 462 Nauru Basin
	Vaughanina	sp.	%	1	96	CUB	CFP		%	Camino Viejo de Yaguaramas-Abreus; 2.3 kms. al WSW del Batey Cienaguita; 3 kms. al N de Algodones. Prov. Las Villas
	Vaughanina	cubensis cubensis	Palmer	1	late Maastrichtian	CUB	CFP		%	Camino Real Viejo de Yaguaramas-Abreus; 400 m. al W del Batey Cienaguita. Prov. Las Villas
glie & Ayala-Castanares 1963 🛛	Vaughanina	cubensis minor	subsp. nov.	1	late Campanian to early Maastrichtian	CUB	CFP		%	Camino Viejo Rodas-Abreus; 750 m al S del Arroyo Almendrillo; 2 km al N. de Abreus, Prov. Las Villas
	Vaughanina	cubensis minor	subsp. nov.	1	late Campanian to early Maastrichtian	CUB	CFP CFP		%	Fozo Ranchuelo A, 5.5 km SW of Aguada de Pasajeros; Prov. Las Villas
lie & Ayala-Castanares 1963	Vaughanina	cubensis minor quatemalensis	subsp. nov. Brönnimann	2	late Campanian to early Maastrichtian	CUB	CFP	18(2,3); 19(1,2)		Fozo Ranchuelo A Fozo Ranchuelo A
glie & Ayala-Castanares 1963 glie & Ayala-Castanares 1963	Vaughanina Vaughanina	cubensis cubensis	Palmer	li	late Campanian to early Maastrichtian late Maastrichtian	CUB	CFP	16(2) 18(1)		Fozo Ranchuero A Extremo NW de la loma Guayos, situada a 2.8 km al SE del pueblo de Guayos, Prov. Las Villas
	Vaughanina	cubensis globosa	subsp. nov.	k	early Maastrichtian	CUB	CFP	19(3); 20(1,2)		Externo NVV de la Joina Gdayds, sidada a 2.5 km al SE del juedro de Gdayds, PTOV. Las Villas 600 m al SSW de Chirino Prov. Matanzas
lie & Ayala-Castanares 1963	Vaughanina	cubensis cubensis	Palmer	li	late Maastrichtian	CUB	CFP		%	Quarry San Juan Bosco, Sti. Spiritus-Zaza; 2.75km ENE del entronque
- ·				- T						ce la Carretera Central con el Central Tuinucú, Prov. Las Villas
glie & Ayala-Castanares 1963	Vaughanina	cubensis cubensis	Palmer	1	late Maastrichtian	CUB	CFP		%	Cantera en el extremo sureste de la loma Guayos, 1 28 km al SE del pueblo de Guayos, Prov. Las Villas
glie & Ayala-Castanares 1963	Vaughanina	barkeri	Brönnimann	1	Campanian to Maastrichtian	CUB	CFP	16(3); 17(1,2,4)		Camino Fomento a Pedrero, 6.3 km de Fomento, Prov. Las Villas
glie & Ayala-Castanares 1963	Vaughanina	barkeri	Brönnimann	1	Campanian to Maastrichtian	CUB	CFP	17(3,5)		Camino Fomento a Pedrero, 6.3 km de Fomento, Prov. Las Villas
	Vaughanina	cubensis	Palmer	1	%	CUB	CFP		%	Cantera en un mogote de caliza unos 2.5 km al SW de Guayos, Prov. Las Villas
	Vaughanina	cubensis	Palmer	1	%	CUB	CFP CFP		% ~	Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana
glie & Ayala-Castanares 1963 1 Jghan & Cole 1943 1	Vaughanina Vaughanina	cubensis cubensis	Palmer Palmer	1	76 late Cretaceous	CUB	CFP	17(3,4); 18(1-10)	76	Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana Habana Prov., Cuba
	1 magnation and				into el ottocorto	1000	1011	11100110/1001100		Lender (n. 1. n. 1. Source
itocyclina										
Publication	6	Constan	D-f	Loc-No	Ofentionentic Acc	. C	Faunal Province		stration	Site
	Genus Lepidorbitoides	Species	Reference	LOC-NO	Stratigraphic Age	Country MEX	CEP	1	stration	Cardenas
	Lepidorbitoides	minima	76 96	52	late Campanian	MEX	CFP	1 2(1-4)(3(1-5)		Larcenas Cardenas
ilaret al. 2002 I ala-Castanares 1963 I	Lepidorbitoides	minima	Douvillé	32	late Campanian	MEX	CFP	2(1-4),3(1-3)	%	rght side of road Carretera Panamericana, de México a Tuxtla Gutiérrez, ca 3.9 km vor Tuxtla Gutiérrez
ala-Castanares 1963	Lepidorbitoides	minima	Douvillé	3	late Campanian	MEX	CEP		%	nismo afloramiento que Muestra Ay-109-57; 5 metros más alta estratigráficamente
terlin 1967	Lepidorbitoides	minima	Douvillé	52	Maastrichtian (late?)		CFP		%	Route Rayon-Tamasopo (État de san Luis Potosi)
terlin 1981	Pseudorbitella	americana	Hanzawa	68	%	MEX	CFP	32(6,7)		Mexico, Caribe
tterlin 1992	Orbitocyclina	minima	%	50	Maastrichtien moyen	NRU	CFP		%	fosse de Nauru (Leg 61, Site 462, sections 48.1 et 48.2)
tterlin 1992	Orbitocyclina	minima	(H. Douvillé)	52	Campanien sup. ou Maastrichtien inf.	MEX	CFP	1(3)		Capas Cardenas. Route Rayon-Tamasopo. Etat de San Luis Potosi (Mexique)
tterlin 1992	Orbitocyclina	minima	(H. Douvillé)	50	Maastrichtien moyen	NRU	CFP	1(4)		Leg 61-Loc. 462-48.2-78/80(9)
	Orbitocyclina	minima minima	(H. Douvillé) (H. Douvillé)	% 2	%	%	%	1(5) 1(6)		
	Orbitocyclina Lepidorbitoides	minima	H. Douvillé	68	76 Maastrichtian	MEX	CFP 20	1(0)	%	Mexico 70
udri 1944	Lepidorbitoides	minima	H. Douvillé	1	Maastrichtian	CUB	CEP		%	Cuba
us et al. 2002	Lepidorbitoides	minima	Douvillé	52	middle-late Campanian		CFP	1(1,2)	~	Cárdenas Basin: San Luis Potosí, NE Mexico
vida 1964	Orbitocyclina	ariyalurensis	Rao	44	Maestrichtian	MEX IND	ASP		%	Trichinopoly district; near the village of Kallacurchi
	Pseudorbitella	n.gen.	Hanzawa	%	Maastrichtian	%	%		%	restricted to Western Hemisphere
	Pseudorbitella?	sp.	%	1	%	CUB	CFP	1(13)		Las Villas Province, Cuba
	Pseudorbitella?	sp.	%	1	96	CUB	CFP	1(14)		5.1 km SE of Caliseo on the Carretera Central, Matanzas Province, Cubε
nzawa 1962	Pseudorbitella	americana	Hanzawa	2	Maastrichtian	USA	CFP	7(1-4)		Feninsular Oli and Refining Company's J. W. Cory
	P seudorbitella Orbitocyclina	americana	Hanzawa	1	76 Campanian-Maastrichtian	CUB MEX	CFP	3(1-7)	o/	Santa Clara Province, Cuba
blick 9 Toppon 1099	orbitocyaria									MEAD
blich & Tappan 1988	Orbitocyclina	50	Vaughan Vaughan	1	Campanian-Maastrichtien	CUB	CEP		%	Cuba
blich & Tappan 1988 (blich & T	Orbitocyclina Orbitocyclina	sp. sp.	Vaughan Vaughan Vaughan	1	Campanian-Maastrichtian Campanian-Maastrichtian	CUB	CFP CFP		% %	Cuba Florida
blich & Tappan 1988 blich & Tappan 1988 blich & Tappan 1988			Vaughan	1 2 4	Campanian-Maastrichtian Campanian-Maastrichtian Campanian-Maastrichtian	CUB USA USA	CFP CFP		% % %	Cube Florida Louisiana
iblich & Tappan 1988 iblich & Tappan 1988 iblich & Tappan 1988 iblich & Tappan 1988 iblich & Tappan 1988	Orbitocyclina Orbitocyclina Orbitocyclina	sp. sp. minima	Vaughan Vaughan Vaughan Vaughan	1 2 4 52	Campanian-Maastrichtian Campanian-Maastrichtian Maastrichtian	CUB USA USA MEX	CFP CFP CFP	751(1-5)	% % %	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico
blich & Tappan 1988 blich & Tappan 1988	Orbitocyclina Orbitocyclina Orbitocyclina Orbitocyclina	sp. sp. minima americana	Vaughan Vaughan Vaughan Vaughan (Hanzawa)	52 2 2 52 2	Campanian-Maastrichtian Campanian-Maastrichtian Maastrichtian upper Cretaceous, subsurface	CUB USA USA MEX USA	CFP CFP CFP CFP	752(1-4)	% %	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Norore County, Florida, USA
eblich & Tappan 1988 (eblich & Tappan 1988 (enn 1972 (Orbitocyclina Orbitocyclina Orbitocyclina Orbitocyclina Lepidorbitoides	sp. sp. minima americana minima	Vaughan Vaughan Vaughan Vaughan (Hanzawa) Douvillé	52 2 31	Campanian-Maastrichtian Campanian-Maastrichtian Maastrichtian upper Cretaceous, subsurface late Campanian	CUB USA USA MEX USA FRA	CFP CFP CFP CFP EFP	752(1-4) 2(3)	% % %	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Monroe County, Florida, USA Environs of Xudiberre (Charente), route de Chalais
blich & Tappan 1986 () blich & Tappan 1986 () blich & Tappan 1986 () blich & Tappan 1986 () blich & Tappan 1988 () blich & Tappan 1988 () blich & Tappan 1988 () mrann 1972 ()	Orbitocyclina Orbitocyclina Orbitocyclina Orbitocyclina Lepidorbitoides Lepidorbitoides	sp. sp. americana minima minima	Vaughan Vaughan Vaughan Vaughan (Hanzawa) Douvillé Douvillé	00 1 2 4 52 2 31 32	Campanian-Maastrichtian Campanian-Maastrichtian Maastrichtian upper Cretaceous, subsurface late Campanian late Campanian	CUB USA USA MEX USA FRA ESP	CFP CFP CFP CFP EFP EFP	752(1-4)	% % %	Florida Louisiana Narore County, Florida, USA environs d'Aubdetre (Charente), route de Chalais Nortsech
biblich & Tappan 1988 i sbilich & Tappan 1988 i biblich & Tappan 1988 i umann 1972 i umann 1972 i	Orbitocyclina Orbitocyclina Orbitocyclina Orbitocyclina Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. sp. americana minima minima minima	Vaughan Vaughan Vaughan (Hanzawa) Douvillé Douvillé Douvillé	00 1 2 4 52 2 31 32 31 50	Campanian-Maestrichtian Campanian-Maestrichtian Maestrichtian upper Cretaceous, subsurface Liete Campanian Liete Campanian Liete Campanian	CUB USA USA MEX USA FRA ESP FRA	CFP CFP CFP EFP EFP EFP EFP	752(1-4) 2(3) 2(6) 2(7)	% %	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Monroe County, Florida, USA Environs AVuderre (Charente), route de Chalais Montsch prês de Brossac
blich & Tappan 1988 (blich & Tappan 1988 (umann 1972 (uman	Orbitocyclina Orbitocyclina Orbitocyclina Orbitocyclina Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. sp. minima americana minima minima minima minima pembergeri	Vaughan Vaughan Vaughan (Hanzawa) Douvillé Douvillé Douvillé n. ssp.	31 59	Campanian-Maastrichtian Campanian-Maastrichtian Maestrichtian Liefe Campanian Liefe Campanian Liefe Campanian Liefe Campanian	CUB USA MEX USA FRA ESP FRA AJT	CFP CFP CFP EFP EFP EFP EFP	752(1-4) 2(3) 2(6) 2(7) 1(3,4)	% %	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Monroe County, Florida, USA environs d'Aubderre (Charente), route de Chalais Montech Terés de Brossac Steinbhuch, remebregarriegel
blich & Tappan 1988 () blich & Tappan 1988 () umann 1972 () umann 1972 () umann 1972 () p 1954 () o 1954	Orbitocyclina Orbitocyclina Orbitocyclina Drbitocyclina Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. sp. minima americana minima minima minima minima pembergeri minima minima	Vaughan Vaughan Vaughan Vaughan Ouvalié Douvalié Douvalié n. ssp. Douvalié	31 59 59	Campanian-Maestrichtian Campanian-Maestrichtian Maestrichtian Liet Camparian Liet Camparian Liet Camparian Campanian Campanian	CUB USA MEX USA FRA ESP FRA AUT AUT	CFP CFP CFP EFP EFP EFP EFP	752(1-4) 2(3) 2(6) 2(7)	% %	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Morrose County, Florida, USA Environs 3 Aubdetra (Charente), route de Chalais Mortsech grês de Brossac Sterihouch, Pemberger, am Waldrand
bilch & Tappan 1988 i umann 1972 i umann 1972 i pp 1954 i po 1954 i	Orbitocyclina Orbitocyclina Orbitocyclina Orbitocyclina Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. sp. minima americana minima minima minima minima pembergeri minima minima minima minima	Vaughan Vaughan Vaughan (Hanzawa) Douvillé Douvillé Douvillé n. ssp.	31 59 59 59 59 59	Campanian-Mastrichtian Campanian-Mastrichtian Mastrichtian Uger Cretacous, subsurface liete Campanian Liete Campanian Campanian Campanian Campanian	CUB USA USA FRA ESP FRA AUT AUT AUT AUT	CFP CFP CFP EFP EFP EFP EFP EFP EFP EFP EFP	752(1-4) 2(3) 2(6) 2(7) 1(3,4) 1(5) 1(6)	% %	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Monroe County, Florida, USA environs d'Aubderre (Charente), route de Chalais Montech Prés de Brossac Steinbruch, Pembergarriegel N. Gehöt Pembergar, mitkildrand Piysch Bisamberg, notidiarh Wen
blich & Tappan 1986 blich & Tappan 1988 blich & Tappan 1988 mann 1972 mann 1972 mann 1972 p 1954 p 1954 p 1955a p 1955a p 1955a	Orbitocyclina Orbitocyclina Orbitocyclina Orbitocyclina Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides Lepidorbitoides	sp. sp. minima americana minima minima minima minima pembergeri minima minima	Vaughan Vaughan Vaughan (Hanzawa) Douvilié Douvilié Douvilié Douvilié Douvilié Douvilié Douvilié	31 59 59 59	Campanian-Maestrichtian Campanian-Maestrichtian Maestrichtian Liet Camparian Liet Camparian Liet Camparian Campanian Campanian	CUB USA USA FRA ESP FRA AUT AUT AUT AUT AUT	CFP CFP CFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	752(1-4) 2(3) 2(6) 2(7) 1(3,4)	% % 	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Monroe County, Florida, USA environs d'Aubderre (Charente), route de Chalais Montesch Très de Brossac Steinbruch, Pembergarriegel Steinbruch, Pembergarriegel Steinbruch, Pembergarriegel Hysch Bismater, nördich Wen Fembergarriegel (Steinbruch) Fembergarriegel (Steinbruch)
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blich & Teppon 1986 blich & Teppon 1986 blich & Teppon 1988 blich & Teppon 1988 mann 1972 p 1954 p 1955 p 1956 p 1955 p 1956 p 1955 p 1956 p 1955 p 1956 p	Orbitocydina Orbitocydina Orbitocydina Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Lepiddrittoides Chitocydina Orbitocydina Orbitocydina Orbitocydina	sp. sp. mirima americana mirima	Vaughan Vaughan Vaughan Vaughan (Hanzave) Douvilé Douvilé Douvilé Douvilé Douvilé Papp Douvilé Papp Douvilé Papp Douvilé	31 59 59 59 59 59	Campanian-Mastirchian Campanian-Mastirchian Mastirchian Uger Cretocous, subsurface liet Campanian Liet Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian	CUB USA USA USA ERA ERA ERA AUT AJIT AJIT AJIT AJIT AJIT AJIT AJIT AJI	CFP CFP CFP EFP EFP EFP EFP EFP EFP EFP EFP EFP E	752(1-4) 2(3) 2(6) 2(7) 1(34) 1(5) 1(6) 1(6) Abb. 1, fg.3,4 Abb. 1, fg.5 Abb. 1, fg.5 1(1)	**************************************	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Morrae Courty, Forida, USA environs d'Aubderre (Charente), route de Chalais Mortasch Sterinbuch, Pembergerriegel N. Gehot Pemberger, anni Valdrand Flysch Bisamberg, radiotan Vien Fembergerriegel (Sterinbuch) Fronder Pemberger, anni Valdrand Flysch Bisamberg, radiotan Vien Sterinbuch, Penbergerriegel (1) Sterinbuch, Penbergerriegel (1) Sterinbuch, Penbergerriegel (1) Sterinbuch, Penberger (1) Sterinbuch, Penberger (1) Sterinbuch, Penberger (1) Ludia Guttierez Tudia Guttierez Tudia Guttierez Tudia Guttierez Tudia Guttierez Tudia Guttierez Tudia Guttierez Tudia Guttierez
olich & Tappon 1986 olich & Tappon 1988 olich & Tappon 1988 olich & Tappon 1988 olich & Tappon 1988 olich & Tappon 1988 olich & Tappon 1988 olich & Tappon 1988 mann 1972 olich & Tappon 1988 mann 1972 olich & Tappon 1988 olish & Tappon 1988 olich & Tappon 1988 olish & Tappon 1988 olish & Tappon 1988 olish & Tappon 1984 olish & Tappon 1984 <	Orbitocydina Orbitocydina Orbitocydina Orbitocydina Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Chibocydina Orbitocydina Orbitocydina Orbitocydina	sp. sp. mirima americana mirima mirima mirima mirima mirina mirima mirina mirima mirina mirima mirina mirima mirina mirima mirina mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima	Vaughan Vaughan Vaughan Vaughan (Hanzave) Douvilé Douvilé Douvilé Douvilé Douvilé Papp Douvilé Papp Douvilé Papp Douvilé	31 59 59 59 59 59	Campanian-Mastirchian Campanian-Mastirchian Mastirchian Uger Cretocous, subsurface liet Campanian Liet Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian	CUB USA USA USA ERA ERA ERA AUT AJIT AJIT AJIT AJIT AJIT AJIT AJIT AJI	CFP CFP CFP EFP EFP EFP EFP EFP EFP EFP EFP EFP E	752(1-4) 2(3) 2(6) 2(7) 1(34) 1(5) 1(6) 1(6) Abb. 1, fg.3,4 Abb. 1, fg.5 Abb. 1, fg.5 1(1)	<u>%</u> <u>%</u> <u>%</u> <u>%</u> <u>%</u> % % % % % % % % % %	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Norrae Courty, Forkio, USA environs d'Audeters (Chararte), route de Chalais Norrae character, peologier lagal San Cardon, Panberger, and Weidrand Flysch Biamberg, nördlich Mein Ferbergeriergei (Steinbuch) rordich Pemberger, and Weidrand Flysch Biamberg, nördlich Wein Steinbuch, Pembergerriegel (II) rordich Pemberger, and Wein Steinbuch, Pembergerriegel (II) rordich Pemberger, and Wein Steinbuch, Pembergerriegel (II) Biamberg Tudia Guttierez Tudia Guttierez
lich & Tappan 1986 lich & Tappan 1986 lich & Tappan 1986 lich & Tappan 1988 lich & Tappan	Orbitocydina Orbitocydina Orbitocydina Orbitocydina Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Lepidorthioles Chibocydina Orbitocydina Orbitocydina Orbitocydina	sp. sp. mirima americana mirima mirima mirima mirima mirina mirima mirina mirima mirina mirima mirina mirima mirina mirima mirina mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima mirima	Vaughan Vaughan Vaughan Vaughan (Hanzave) Douvilé Douvilé Douvilé Douvilé Douvilé Papp Douvilé Papp Douvilé Papp Douvilé	31 59 59 59 59 59	Campanian-Mastirchian Campanian-Mastirchian Mastirchian Uger Cretocous, subsurface liet Campanian Liet Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian	CUB USA USA USA ERA ERA ERA AUT AJIT AJIT AJIT AJIT AJIT AJIT AJIT AJI	CFP CFP CFP EFP EFP EFP EFP EFP EFP EFP EFP EFP E	752(1-4) 2(3) 2(6) 2(7) 1(34) 1(5) 1(6) 1(6) Abb. 1, fg.3,4 Abb. 1, fg.5 Abb. 1, fg.5 1(1)	* * * * * * * * * * * * * * * * * * *	Florida Louisiana rear Cardenas, San Luis Potosi, Mexico Norrae Courty, Forkio, USA environs d'Audeters (Chararte), route de Chalais Norrae character, peologier lagal San Cardon, Panberger, and Weidrand Flysch Biamberg, nördlich Mein Ferbergeriergei (Steinbuch) rordich Pemberger, and Weidrand Flysch Biamberg, nördlich Wein Steinbuch, Pembergerriegel (II) rordich Pemberger, and Wein Steinbuch, Pembergerriegel (II) rordich Pemberger, and Wein Steinbuch, Pembergerriegel (II) Biamberg Tudia Guttierez Tudia Guttierez

Pécheux 1984	%	%	%	%
Pessagno 1962	Text-fig.1	Sulcoperculina, Pseudorbitoides	massive limestone	Globotruncana fornicata-lapparenti-stuarti assemblage zone; thin section
Pessagno 1962	Text-fig. 3	%	96	%
Pessagno 1962	%	%	limestone	%
Premoli Silva & Brusa 1981	Fig. 5	%	96	Core 51-3; Depth: 1) 91-96 cm; 2) 44-47 cm; 5) 91-96 cm;
				6) 44-47 cm; Core 52-1; Depth: 4) 98-101 cm
Premoli Silva & Brusa 1981	Fig. 5	%	%	Core 52-1; Depth: 3,10) 98-101 cm
Premoli Silva & Brusa 1981	Fig. 5	%	96	Core 52-1; Depth: 1,2) 98-101 cm
Premoli Silva & Brusa 1981	Fig. 5	%	96	Core 51-3; Depth: 3,8) 44-47 cm; 4,5,7) 91-96 cm
Premoli Silva & Brusa 1981	Fig. 5	%	%	Core 51-3; Depth: 91-96 cm
Premoli Silva & Brusa 1981	Fig. 5	%	96	Core 51-3; Depth: 6,9) 91-96 cm; 8) 44-47 cm
Premoli Silva & Brusa 1981	Fig. 5	%	96	Core 52-1; Depth: 101-107 cm
Premoli Silva & Brusa 1981	Fig. 5	%	%	Core 52-1; Depth: 98-101 cm
Premoli Silva & Brusa 1981	Fig. 5	%	96	Core 48, CC
Premoli Silva & Brusa 1981	Fig. 5	%	96	Core 51-3; Depth: 44-47 cm
Premoli Silva & Brusa 1981	Fig. 5	Pseudorbitoides, Globorotalia calcarata	96	Core 51/52 P seudorbitoides-Vaughanina assemblage
Premoli Silva & Brusa 1981	Fig. 5	P seudorbitoides, G loborotalia cal carata	96	Core 21: Pseudorbitoides-Vaughanina assemblage
Premoli Silva & Brusa 1981	Fig. 5	P seudorbitoides, Globorotalia gansseri	%	Core 16: Pseudorbitoides-Vaughanina assemblage
Renz 1955	Page 66	%	%	%
Rosales Dominguez et al. 1994	Page 30	Sulcoperculina	packstone con fragmentos biógenos	36
Rosales Dominguez et al. 1994	Page 30	Sulcoperculina	packstone con fragmentos biógenos	96
Schlanger & Premoli Silva 1981	Fig. 2	Pseudorbitoides; Globotruncana subspinosa, G. calcarata	%	%
Seiglie & Ayala-Castanares 1963	Page 6	Omphalocyclus, Orbitoides, Sulcoperculina	Caliza densa, dura, aporcelanada, blanca, con macroforaminí feros	%
Seiglie & Ayala-Castanares 1963	Page 6	Orbitoides, Omphalocyclus, Sulcoperculina	Calizas duras, recristalizadas, blancas, con macroforaminí feros	%
Seiglie & Ayala-Castanares 1963	Page 7	%	Caliza margosa	%
Seiglie & Ayala-Castanares 1963	Page 8	%	Marga arcillosa de grano fino a muy fino; dureza media, color gris oscuro	core depth 977 feet
Seiglie & Ayala-Castanares 1963	Page 8	Orbitoides	Caliza margosa, dura, uniforme, densa	core depth 1152-1153 feet
Seiglie & Ayala-Castanares 1963	Page 8	Orbitoides	Caliza margosa, dura, uniforme, densa	core depth 1152-1153 feet
Seiglie & Ayala-Castanares 1963	Page 10	Orbitoides, Sulcoperculina	Caliza arrecifal, blanca, con macroforaminí feros	96
Seiglie & Ayala-Castanares 1963	Page 10	Orbitoides, Sulcoperculina	Canto de caliza dura, redepositada en un conglomerado del Eloceno o Maastrichtiano; arrecifes orgánicos	96
Seiglie & Ayala-Castanares 1963	Page 11	Orbitoides, Sulcoperculina	Caliza blanca a blanco-grisácea, masiva, dura	96
Seiglie & Ayala-Castanares 1963	Page 11	%	Caliza masiva, nodulosa, con pequenas ostras	%
Seiglie & Ayala-Castanares 1963	Page 12	Orbitoides, Sulcoperculina	Caliza masiva, color rosáceo, con numerosos foraminí feros	%
Seiglie & Ayala-Castanares 1963	Page 13	Orbitoides, Sulcoperculina	Caliza blanca, densa, masiva	%
Seiglie & Ayala-Castanares 1963	Page 14	Orbitoides	Caliza masiva, blanca o gris, densa, dura con abundantes macroforaminí feros	%
Seiglie & Ayala-Castanares 1963	Page 14	Omphalocyclus, Siderolites, Sulcoperculina	Calcirudita, deleznable, arcillosa, color gris claro	%
Seiglie & Ayala-Castanares 1963	Page 15	Omphalocyclus, Orbitoides, Lepidorbitoides, Pseudorbitoides, Sulcoperculina	Calcirudita a calcarenita, dura, consolidada, color gris claro	%
Vaughan & Cole 1943	%	%	%	%
1.010	~	~		

Orbitocyclina

		Association	Lithology and	Remarks
Aguilar et al. 2002	Fig. 1	%	%	%
guilar et al. 2002	Fig. 1	Sulcoperculina (globosa, dickersoni), Vaughanina cf. cubensis; Globotruncana (arca, linneiana)	%	%
	Page 61	Orbitoides, Sulcoperculina, P seudorbitoides	gravas de color pardo amarillento	ausführliche Lokalität im Text
ala-Castanares 1963	Page 62	Orbitoides, Sulcoperculina, P seudorbitoides	gravas de color pardo amarillento	96
tterlin 1967	%	Sulcoperculina	%	%
tterlin 1981	%	%	%	%
tterlin 1992	%	Lepidorbitoides, Sulcoperculina, Pseudorbitoides, Vaughanina	%	zone à Gibbotruncana gansseri
tterlin 1992	96		%	96
tterlin 1992	96	%	%	96
tterlin 1992	96		96	96
tterlin 1992			96	aŭ de la compansional de la compans
udri 1944	%	?Camerina, Borelis, ?Meandropsina		
udri 1944	e.	Orbitoides, Pseudorbitoides, Vaughanina, Omphalocydus, ?Meandropsina	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
us et al. 2002	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Sulcoperculina, Vaughanina, Orbitoides	open marine environment with terrigenous input	%
	p.305	Lepidorbitoids, Nummofallotia, Siderolites	oper manne environment wurteringenous input	06
	0.305	L'épidor droides, Norminorailoura, Sidéroirtés	70	10
anzawa 1962	%		%	Type species: P seudorbitella americana Hanzawa
nzawa 1962	%	% 	%	%
nzawa 1962	%	%	%	microspheric form?
nzawa 1962	%	%	%	Core: No. W-445; Depth: 5,760-6,770 ft
nzawa 1963	%	%	%	%
eblich & Tappan 1988	%	%	96	%
eblich & Tappan 1988	%	%	%	96
eblich & Tappan 1988	%	%	%	%
eblich & Tappan 1988	%	%	%	96
eblich & Tappan 1988	%	%	%	%
eblich & Tappan 1988	%	%	%	Type species of Pseudorbitella
umann 1972	%	%	%	%
eumann 1972	96	%	%	%
sumann 1972	96	96	%	%
pp 1954	%	%	%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
pp 1954	96	Siderolites	96	96
pp 1954		96	96	96.
pp 1955a	% %	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		94
pp 1955a	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~
op 1955a	~	/* *	~	~
op 1955b	70 Fig. 1	Orbitoides (tissoti, media), Siderolites vidali, Pseudorbitoides trechmanni	70	
JU 19550			70	70
op 1955b	Fig. 1,2	Orbitoides media, Siderolites vidali	76	36
op 1956a	Page 137	%		 %
cheux 1984	%	Orbitoides, Sulcoperculina, P seudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
cheux 1984	%	Orbitoides, Sulcoperculina, P seudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
cheux 1984	%	Orbitoides, Sulcoperculina, P seudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
cheux 1984	%	Orbitoides, Sulcoperculina, P seudorbitoides	grès, parfois calcaires ou conglomératiques, et de marnes	%
cheux 1984	%	Orbitoides, Sulcoperculina, P seudorbitoides	calcaires gréseux	%
cheux 1984	%	Orbitoides, Sulcoperculina, P seudorbitoides	calcaires gréseux	%
cheux 1984	%	Orbitoides, Vaughanina, Sulcoperculina, Chubbina	marnes gréseuses et de calcaires micritiques	%
cheux 1984	%	Orbitoides, Vaughanina, Sulcoperculina, Chubbina	marnes gréseuses et de calcaires micritiques	%
cheux 1984	%	Orbitoides, Vaughanina, Sulcoperculina, Chubbina	marnes gréseuses et de calcaires micritiques	%
affitteina				
	Loc-Descr.	Association	Lithology and	Remarks

Plane 1075	Letter	la anasut	(Anten)	los.	le -		ED 0		-11.2	Vertue Dank Manney Frances Lak 704.29 Lane: 425.02
Blanc 1975 Caus 1988	Laffitteina Laffitteina	mengaudi sn	(Astre)	96 21		estrichtian	FRA ESP	EFP	pi.1, 2 %	Vertus, Dept. Marne; France; Lat: 721,36, Long: 135,92 Pyrenean basin
Caus & Hottinger 1986	Lafitteina	sp.		76 <u>32</u> % 32	Ma			EFP		Pyrenees
Fleury et al. 1979	Laffitteina	mengaudi	(Astre)	36		e Cretaceous		EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	la moitié occidentale du chaînon d'Ayios Nikolaos, Peloponne
Fleury et al. 1985	Laffiteina	sp	(1.2.1.0)	%		astrichtian	%	%	×	orthern and western Africa, middle Europe, irar
Fleuryet al. 1985	Laffitteina	sp.		% 32			ESP	EFP	%	Spain
Fleury et al. 1985	Laffitteina	sp.		% 35			ITA	EFP		Italy
Fleuryet al. 1985	Laffitteina	sp.		% 63	Maa	astrichtian	SVN	EFP	%	Slovenia
Fleury et al. 1985	Laffitteina	sp.		% 62	Mae	astrichtian	HRV	EFP	%	Croatia
Fleury et al. 1985	Laffitteina	sp.		% 36	Maa	astrichtian	GRC	EFP	%	Greece
Fleury et al. 1985	Lafitteina	sp.		% 69	Maa			EFP	%	Cyprus
Fleury et al. 1985	Laffitteina	sp.		% 38	Ma			EFP	%	Turkey
Fleury et al. 1985	Lafitteina	sp.		% 43				ASP		Findoukouch
Fleuryet al. 1985	Lafitteina	sp.		% 46				ASP	%	Pakistan
Fleury et al. 1985	Laffitteina	sp.		% 15	Maa	astrichtian		AFP	%	Morocco
Fleury et al. 1985	Laffitteina	sp.		% 16		astrichtian		AFP	%	/Algeria
Fleury et al. 1985	Laffitteina	sp.		% 17	Maa	astrichtian		AFP	%	Tunesia
Fleury et al. 1985	Laffitteina	sp.		% 18		astrichtian	LBY	AFP	%	Libya
Gusic & Jelaska 1990	?Laffitteina	sp.		% 62				EFP	19(2)	Likva cove W of Sutivan; Island of Brac
Gusic et al. 1988 Inan 1996a	Laffitteina	sp. oeztuerki		% 62		astrichtian estrichtian		EFP EFP	%	Island of Brac Knyulhisar-Siyas
Inan 1996a	Laffitteina			76 JO				EFP	70	
Inan 1996b	Lafitteina	aff. marsicana boluensis	Dizer	70 30					2/0.4.2)	koyulhisar-Sivas
Inan 1996b	Laffitteina	aff. marsicana	Farinacci	38 38 38				EFP EFP	2(8-12)	ligaz mourtains (Kastamonu)
Inan 1996b	Laffiteina	marsicana	Farinacci	30				EFP	1(1,2) 1(3-6)	Tecer mountains (Sivas), Koyulhisar (Sivas) Tecer mountains (Sivas)
Inan 1996b Inan 1996b	Lafitteina	oeztuerki	Farinacci Inan	38					1(7,8,11); 2(3,4,6,7)	recer mountains (sivas) Koyulhisar (Sivas)
inan 1996b Inan 1996b	Lattitteina	oeztuerki	inan Inan	38	late	e Maastrichtian	TUR	EFP	1(7,8,11); 2(3,4,6,7) 1(9,10); 2(1,2)	κοyulnisar (Swas) Koyulhisar (Sivas), Tecer Mountains (Sivas)
Inan 1996b	Lafitteina	oeztuerki	Inan	20	late	e Maastrichtian	TUR	EFP	2(5)	Koyuinisar (Swas), Lecer Mountains (Sivas) Tecer mountains (Sivas)
Inan 1996b	Laffitteina	boluensis	Dizer	20		e Maastrichtian	TUR		2(3) 2(8-12)	llgaz mourtains (Sivas)
Inan 1996b	Laffitteina	bibensis	Marie	38 38 38 38		leocene	TUR	EFP	2(0-12) 3(1-3,7,8)	ngaz mourtaris (vastamond) Niksar (fokat)
Inan 1996b	Laffitteina	bibensis	Marie	38			TUR		3(4,6)	(vikaar (rokat) Kovulhisar (Sivas)
Inan 1996b	Lafitteina	bibensis	Marie	28		leocene	TUR			Kayabogazi (Mudumu)
Inan 1996b	Lafitteina	cf. monodi	Marie	38 38 38			TUR			nayaougaz (watatina) Nisar (Tokat)
Inan 1996b	Lafitteina	erki	(Sirel)	38		leocene			4(1,3,11)	Tecer mountains (Sivas)
Inan 1996b	Laffitteina	erki	(Sirel)	38					4(2)	Kayabogazi (Mudurnu)
Inan 1996b	Lafitteina	erki	(Sirel)	38		leocene			4(4,5,7,8,13)	Koyulhisar (Sixas)
Inan 1996b	Laffitteina	erki	(Sirel)	38 38 38 38		leocene	TUR	EFP	4(6)	Gölköy (Ordu)
Inan 1996b	Lafitteina	lerki	(Sirel)	38		leocene	TUR		4(9,10,12)	Faymana (Ankara)
Inan 1996b	Laffitteina	bibensis	Marie	38	Ma	astrichtian	TUR	EFP	%	Cemrecay area, Beydaglari
Inan 1996b	Laffitteina	bibensis	Marie	38		e Maastrichtian	TUR	EFP	%	Gököyarea
Inan 1996b	Laffitteina	oeztuerki	Inan	38		Maastrichtian	TUR	EFP	%	Gölköv area
Inan 1996b	Laffitteina	aff, marsicana	Farinacci	38		Maastrichtian	TUR	EFP	%	between Kowulhisar and Resadive
Inan 1996b	Laffitteina	oeztuerki	Inan	38		Maastrichtian	TUR	EFP		between Kovulhisar and Resadive
Inan 1996b	Laffitteina	cf. marsicana	Farinacci	38	late			EFP	%	Tecer mountains (Sivas)
Inan 1996b	Laffitteina	marsicana	Farinacci	38	late	e Maastrichtian	TUR	EFP	%	Tecer mountains (Sivas)
Inan 2002	Laffitteina	turcica	n.sp.	38	Maa	astrichtian	TUR	EFP	1(1-5)	Yolak ridge, Tecer mountains (Sivas)
Loeblich & Tappan 1988	Laffitteina	sp.	Marie	31			FRA	EFP		France
Loeblich & Tappan 1988	Laffitteina	sp.	Marie	32	Maa	astrichtian	ESP	EFP	%	Spain
Loeblich & Tappan 1988	Lafitteina	sp.	Marie	35				EFP	%	taly .
Loeblich & Tappan 1988	Laffitteina	sp.	Marie	36		astrichtian	GRC	EFP	%	Greece
Loeblich & Tappan 1988	Laffitteina	sp.	Marie	75	Maa	astrichtian	YUGf	EFP	%	Yugoslavia
Loeblich & Tappan 1988	Laffitteina	sp.	Marie	19	Mae	astrichtian	MRT	AFP	%	W. Africa, Mauritania
Loeblich & Tappan 1988	Lafitteina	mengaudi	G. Astre	31	Maa	astrichtian	FRA		759(1,2,9)	Nont-Aimé, Dept. Marne; France
Loeblich & Tappan 1988	Laffitteina	mengaudi	G. Astre	31	Mae	astrichtian	FRA	EFP	759(3-8)	Vertus, Dept. Marne; France
Renz 1955	Lafitteina	sp.		% 10	Pal	leocene		CFP	3(2)	at base of lighthouse, large morro of San Juan, State of Guáric:
Renz 1955	Laffitteina	sp.		% 10	Pal	leocene		CFP	3(3)	at Morro de la Gruta, N of San Sebastian, State of Aragua
Sirel 1996	Lafitteina	mengaudi	(Astre)	38				EFP	1(1-22)	Cündarli town, SW of Kayseri, Central Turkey
Sirel 1996	Laffitteina	mengaudi	(Astre)	38				EFP	2(1-22), 3(1-11)	Gölköy section, S of Ordu, Northern Turkey
Sirel 1996	Laffitteina	mengaudi		% 38	Dar	nian-Thanetian		EFP	%	Faymana basin, S of Ankara
Sirel 1996	Lafitteina	mengaudi		% 38	Maa	astrichtian	TUR	EFP	%	Haymana basin, S of Ankara
Sirel 1996	Laffitteina	mengaudi		% 38		astrichtian	TUR	EFP	%	Cündarli area, SW of Kayseri, Central Turkey
Sirel 1996	Laffitteina	mengaud		% 38		nian-Thanetian	TUR	EFP	%	Gölköytown, S of Ordu, Northern Turkey
Sirel 1996	Laffitteina	mengaudi		% 38 % 38		estrichtian	TUR	EFP	% ~	Peyamili hill, 8 km north of Dündari town, SW of Kayseri
Sirel 1996	Laffitteina	mengaudi				ty Paleocene	TUR	EFP	%	Peyamil hill, 8 km north of Dündarli town, S/V of Kayseri
Sirel 1996 Sirel 1996	Laffitteina	mengaudi		% 38				EFP EFP	%	Demindlik village, NW of Tecer mountains, S of Sivas, Central Turkey
	Laffitteina	mengaud		% 38 % 38		ty Paleocene		EFP EFP	% ~	Cemircilik village, NW of Tecer mountains, S of Sivas, Central Turkey
Sirel 1996 Sirel 1996	Laffitteina Laffitteina	mengaudi						EFP FFP	%	Hekim han town, NW of Malatya, Eastern Turkey Göliðu Hans, Saf Ordu, Matham Turkey
Sirel 1996 Sirel 1996	Lattiteina	mengaudi mengaudi		% 38 % 38	ean	ty Paleocene estrichtian		EFP	70 0/	Gölköy town, S of Ordu, Northern Turkey Celdea anticipa, Abidii uu uvillaga, Alim vest of Havmana tovan, S of Arkan
Sirel 1996	Laffitteina	mengaudi mengaudi		% 38 % 38			TUR	EFP	70 9/	Caldag anticline, Ahirlikuyu village, 4 km. west of Haymana town, S of Ankara Caldag anticline, Ahirlikuyu village, 4 km. west of Haymana town, S of Ankara
Sirel 1996	Laffitteina	mengaudi		% 38		ly Thanetian	TUR	EFP	,0 %	Calcad anticaline, Animiculyu Village, 4 km West ol Haymana town, 5 or Ankala Yarisli place, W of Burdur, Southern Turkey
Sirel 1996	Laffitteina	mengaudi mengaudi		% 38	Tor	rtiary	TUR	EFP	/0 9/	Yansii piace, wi of Burdur, Sournern Turkey S of Cüceköy village, Eftani, E of Zonguldak, Northern Turkey
Sirel 1996	Lafitteina	mengaudi		% 38	Pak	leocene	TUR	EFP	%	Ovacuma village, Ulus town, NE of Zonguldak, Northern Turkey
Sirel 1996	Laffitteina	mengaudi		% 38		aleocene	TUR	EFP	20 92	Seben town, S of Bolu, Northern Turkey
Sirel 1996	Lafitteina	mengaudi		~ <u>00</u>		astrichtian	TUR	EFP	/* %	Eozandere place, ligaz mountains, N of Cankiri, Central Turkev
Sirel 1996	Laffitteina	mengaudi		% 38 % 38		leocene	TUR	EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	cocanidade place, ngazinitorinarias, no oricanismi, centrali roke; Gölköv section. Sof Ordu, Northem Turkev
Sirel 1996	Lafitteina	aff. mengaudi	(Astre)	30			TUR		4(1,4-8,10,12-18)	Gölköy section, S of Ordu, Northern Turkey
Sirel 1996	Laffiteina	aff. mengaudi	(Astre)	38 38 38						Eolu regions, Northern Turkey
Sirel 1996	Lafitteina	aff. mengaudi	(Astre)	38					4(2,3,3,11) 4(19)	Lora regions, reorient ranky Iligaz mountains, N of Cankin, Northern Turkey
Sirel 1996	Laffitteina	aff. mengaudi	(*********	% 38				EFP		Eozandere place, ligaz mountains, N of Cankiri, Central Turkey
Sirel 1996	Lafitteina	aff. mengaudi		% 38		leocene	TUR	EFP	×	Gölköy section, S of Ordu, Northern Turkey
Sirel 1996	Laffitteina	aff. mengaudi		% 38 % 38		aleocene	TUR	EFP	~ %	Seben town, S of Bolu, Northern Turkey
Sirel 1996	Lafitteina	conica	Drooger	38		e Maastrichtian	TUR	EFP		Eozandere village, Ilgaz mountains, N of Cankir
Sirel 1996	Laffitteina	conica	0.0090	% 38	Ma	astrichtian	TUR	EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Eozandere place, ligaz moutains, N of Cankin, Central Turkey
Sirel 1996	Laffitteina	erki	(Sirel)	38	ear	ly Thanetian	TUR	EFP	8(1-8)	Gölköy town, S of Ordu
Sirel 1996	Laffiteina	erki	(0=0)	% 38		anetian	TUR	EFP	-\> %	Galika von S of Ordu. Northern Turkey
Sirel 1996	Lafitteina	erki		% 38		dy Thanetian	TUR	EFP	%	Vorisie Jace. Word Burdur. Southern Turkey
Sirel 1996	Laffitteina	koyulhisarica	n.sp.	38			TUR	EFP	9(1-22)	Kavulhisartown, NE OSivas, Central Turkey
Zambetakis-Lekkas 1988	Laffitteina	mengaudi	i risepo i	% 36				EFP	%	Coupe de Christovitsi
Zambetakis-Lekkas 1988	Lafitteina	mengaudi		% 36				EFP	%	Coupe de Crinissovisi
	1				pano				19	
Siderolites										
	-									
iderolites Publication	Genus	Species	Ref	erence Lo	oc-No	Stratigraphic Age	Country	Faunal Province	Illustration	Site

anc 1975	Page 62	%	calcarénite jaunâtre plus ou moins indurée, à passées marneuses (sur 5 m	%	
is 1988	%	%	lagoon	%	
is & Hottinger 1986	%	Phase utilization	fácies detríticas y posiblemente salobres	%	
uryetal. 1979 uryetal. 1985	Fig. 3 Fig. 3	Rhapydionina 🗠	niveaux blanc où attement de nouveau dolomies, calcaires "rubannés", parfois bréchique	Syn: Laffiteina marsicana Farinacci %	
aryetal. 1965 aryetal. 1985	Fig. 4		%	<u>%</u>	
aryet al. 1985	Fig. 4	%	%	%	
uryet al. 1985	Fig. 4	%	%	%	
ury et al. 1985	Fig. 4 Fig. 4	%	%	%	
uryet al. 1985	Fig. 4	×	%	%	
uryet al. 1985 uryet al. 1985	Fig. 4 Fig. 4	/ % *	%	% ec	
uryet al. 1985 uryet al. 1985	Eig A	70	76	76	
uryetal. 1985	Fig. 4 Fig. 4 Fig. 4	×.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	96	
urvetal. 1985	Fig. 4	×		s s s s s s s s s s s s s s s s s s s	
uryet al. 1985	Fig. 4	%	%	%	
ury et al. 1985	Fig. 4	%	%	%	
eury et al. 1985	Fig. 4	%	%	%	
sic & Jelaska 1990	%	%	grainstone	%	
sic et al. 1988 n 1996a	Fig. 1 Fig. 1	%	skeletal wackestone; restricted platform, shallow subtidal, probably with fresh-water (brackish) influence Limestone; Lagoon - Tida	76	
n 1996a	Fig. 1	×	Linestone; Tidal - Back reet	s.	
n 1996b	Fig. 1	%	%	%	
n 1996b	Fig. 1 Fig. 1	8	%	%	
n 1996b	Fig. 1	%	%	%	
1996b	Fig. 1 Fig. 1	%	%	%	
n 1996b n 1996b	Fig. 1 Fig. 1	1 %	%	%	
n 19960 n 1996b	Fig. 1	70 90	70	70	
1 1996b	Fig. 1	8	×0 %	%	
n 1996b	Fig. 1 Fig. 1 Fig. 1	%	%	96	
n 1996b	Fig. 1 Fig. 1 Fig. 1	%	%	%	
n 1996b	Fig. 1	%	%	%	
n 1996b	Fig. 1	%	%	%	
n 1996b n 1996b	Fig. 1 Fig. 1	% *	% or	% or	
in 1996b in 1996b	Fig. 1	20 %	70 %	70	
an 1996b	Fig. 1	8	%	www.	
n 1996b	Fig. 1 Fig. 1	%	96	96	
n 1996b	Fig. 1	Rhapydionina	%	%	
1996b	Fig. 1 Fig. 1	Orbitoides, Cuneolina	%	%	
n 1996b	Fig. 1	Omphalocyclus, Cuneolina, Lottusia	%	% ~	
n 1996b n 1996b	Fig. 1 Fig. 1	× *	% ~	%	
n 1996b n 1996b		70	70	70	
n 2002	Fig. 1 Fig. 1	%	20 dayey limestone, sandy lst., brecchiated lst. and dolomitic lst. Interbedding; shallowmarine	%	
eblich & Tappan 1988	%	%	%	%	
eblich & Tappan 1988	%	%	%	%	
eblich & Tappan 1988	%	%	%	%	
eblich & Tappan 1988	%	×	%	% ~	
eblich & Tappan 1988 eblich & Tappan 1988	76	70 %	76	76	
eblich & Tappan 1988	%		%	×	
blich & Tappan 1988	%	%	%	%	
z 1955	%	%	limestone	eigentlich nur oKreide und östliche Hemisphäre	
z 1955 1996	%	<u>%</u>	limestone	eigentlich nur oKreide und östliche Hemisphäre	
1996	Fig. 1 Fig. 1	%	×	%	
1 1 996	Fig. 1	20 96	70	70	
1 1 996	Fig. 1	Lottusia, Siderolites, Hellenocydina, Orbitoides, Sirting	Sandstone, sandy limestone, argillaceous limestone		
1996	Fig. 1 Fig. 1 Fig. 1	Omphalocyclus, Siderolites, Hellenocyclina, Orbitoldes, Loftusk	Sandy limestone, Mari, argillaceous limestone	9%	
1996	Fig. 1	%	algal limestones	%	
1 1 996	Fig. 1 Fig. 1 Fig. 1	Loftusia, Siderolites, Hellenocyclina, Orbitoides, Omphalocyclu:	limestone; shallow water	%	
1996	Fig. 1	%	algal limestones; shallow water	%	
1996	Fig. 1 Fig. 1	Lotusia, Omphalocyclus	limestone; shallow water	%	
l 1996 I 1996	Fig. 1 Fig. 1	Globorotalia Loftusia	algal limestones; shallow water limestone; shallow water	76	
1 1 996	Fig 1		algal linestones; shallow vater	×	
1996	Fig. 1	Omphalocyclus, Siderolites, Hellenocyclina, Orbitoides, Sirtina	limestone; shallow water	w w	
si 1996	Fig. 1 Fig. 1	%	algal limestones; shallow water	%	
el 1996	Fig. 1	%	limestone; shallow water	%	
el 1996	Fig. 1 Fig. 1 Fig. 1 Fig. 1 Fig. 1 Fig. 1 Fig. 1	% ~	limestone, shallow water	%	
el 1996	rig. 1	1 %	limestone; shallow water	% ~	
el 1996 el 1996	rig.1 Fig.1	% Lottusia	algal limestones; shallow water limestone; shallow water	76	
1 1 996	Fig. 1	× *	limestone	%	
1996	Fig. 1	%	%	%	
1 1 996	Fig. 1 Fig. 1 Fig. 1	%	%	%	
1996	Fig. 1	%	%	%	
1996	Fig. 1 Fig. 1	Lotusia	limestone, shallow water	%	
1996	Fig. 1	1 %	limestone	%	
1996 1996	Fig. 1 Fig. 1	20 0	76	76 96	
1 1 996	Fig. 1	% Lottusia	limestone; shellow veter	76	
1 1 996	Fig. 1	**************************************	%	type locality	
sl 1996	Fig. 1	8	limestone	%	
el 1996	Fig. 1	%	algal limestone and marks	%	
el 1996	Fig. 1	Loftusia	%	%	
mbetakis-Lekkas 1988	Fig. 1	%	%	%	
nbetakis-Lekkas 1988	Fig. 1	l %	%	1 %	
rolites					
onces .					

Abdelghany 2003	Siderolites	calcitrapoides	Lamarck	23	late Campanian-Maastrichtian		AFP	%	northern Oman Mountains
Abdelghany 2003 Abramovich et al. 2002	Siderolites Siderolites	cal citrapoides denticulatus	Lamarck Douvillé	23	late Campanian-Maastrichtian %		AFP	fig. 10; 13,14; sample 4 3(1-3)	northem Oman Mountains Amboanio, Mahajanga Basin, Madagascar
Abramovich et al. 2002	Siderolites	cal citrapoides	Lamarck	29	%	MDG	AFP	3(4-5)	Errivotra, Mahajanga Basin, Madagascar
Al-Omari & Sadek 1976	Siderolites	calcitrapoides	Lamarck	56	Maastrichtian		AFP	%	Iran
Al-Omari & Sadek 1976 Andreieff & Neumann 1983	Siderolites	sp. praevidali	% n.sp.	23	Maastrichtian Campanian	OMN FRA	AFP	% 1(1-9); 2(1-7, 9-11)	Oman La Brande, près de Pons (Charente-Maritime)
Andreieff & Neumann 1983	Siderolites	praevidali	n. sp.	31	Campanian		EFP	2(8)	Executives, preside notes (charen executives)
Andreieff & Neumann 1983	Siderolites	praevidali	n.sp.	31	Campanian			2(12,13)	Sondage d'Archiac (Charente)
Andreieff & Neumann 1983	Siderolites	praevidali	n.sp.	31	Campanian		EFP	3(1)	Falaise du Pilou (Charente-Maritime)
Andreieff & Neumann 1983 Andreieff & Neumann 1983	Siderolites Siderolites	vidali vidali	Douvillé Douvillé	31	Campanian Campanian		EFP	1(10,11,13); 3(3) 1(12)	Le Caillaud (Charente-Maritime) Aubeterre (Charente)
Andreieff & Neumann 1983	Siderolites	vidali	Douvillé	31	Campanian	FRA	EFP	1(14,15)	Wontgouverne près de Pons (Charente-Maritime)
Andreieff & Neumann 1983	Siderolites	vidali	Douvillé	31	Campanian		EFP	3(2)	Saint-Martial-sur-Né (Charente)
Andreieff & Neumann 1983 Andreieff & Neumann 1983	Siderolites	vidali vidali	Douvillé Douvillé	31	Campanian Campanian		EFP EFP	3(4) 3(5,7-9)	Falaise du Pilou (Charente-Maritime) Le Buisson (Dordoane)
Andreieff & Neumann 1983	Siderolites	vidali	Douvillé	31	Campanian	FRA	FFP	3(6)	Le Caillaud (Charente-Maritime)
Andrusov 1934	Siderolites	vidali	Douvillé	71	Maastrichtian	SVK	EFP	%	Eradio, près de Brezoná
Arni 1933	Siderolites	heracleae	Arni	36	Maastrichtian	GRC	EFP	5(1)	Karvéla-Kamm, Thessalischer Pindos
Arni 1933 Arni 1933	Siderolites Siderolites	heracleae calcitrapoides	Arni Lamarck	38	% Maastrichtian	TUR GRC	EFP FFP	5(2) 5(3,4)	kepestepe (Tavargullu), Ost Eregil, kleinas. Schwarzmeerküste Karvéla-Kamm, Thessalischer Pindos
Azema et al. 1979	Siderolites	calcitrapoides	(Lamarck)	32	Maastrichtian	ESP	EFP	40(1)	Siera Seca (Internal Prebetic)
Azema et al. 1979	Siderolites	calcitrapoides	(Lamarck)	32	Maastrichtian	ESP	EFP	39(1)	Sierra de Arquena (Prebetic)
Azema et al. 1979 Barattolo & Schiattarella (IT)	2Siderolites	ep- cf. calcitrapoides	*	65	?Cretaceous Paleocene?	PHL	ASP.	*	Pinugay Hill, Tanay, Rizal, Central Luzon
Barattolo & Schiattarella (IT) Barattolo & Schiattarella (IT)	Siderolites Siderolites	cr. carctrapoides calctrapoides	% %	35	Maastrichtian Maastrichtian-Paleocene?	ITA	FFP	70 0/	Capri Caori
Barrier & Neumann 1959	Siderolites	sp.	%	31	Campanian	FRA	EFP	%	Cordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Barrier & Neumann 1959	Siderolites	sp.	%	31	Campanian		EFP	%	Cordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France
Barrier & Neumann 1959	Siderolites Siderolites	sp.	%	31	Maastrichtian Maastrichtian	FRA FRA	EFP	% ~	Cordogne (Lalinde, Lim euil, Le Bugue, Le Buisson, Saint-Cypren) France
Barrier & Neumann 1959 Bignot 1972	Siderolites	sp. calcitrapoides	70 Lamarck	63	Maastrichtian	SVN	EFP	70 %	Cordogne (Lalinde, Limeuil, Le Bugue, Le Buisson, Saint-Cyprien) France Le Sabotin
Bignot 1972	Siderolites	denticulatus	Douvillé	63	Maastrichtian		EFP		Le Sabotin
Bignot 1972	Siderolites	calcitrapoides	Lamarck	63	Maastrichtian		EFP	%	la route 2058 entre Sedovec et Ravnica
Bignot 1972 Bignot & Neumann 1997	Siderolites	sp. vidali	% Douvillé	63	Maastrichtian Campanian	SVN CHE	EFP	%	Coupe de Kalise Schweiz
Bignot & Neumann 1997	Siderolites	vidali	Douvillé	59	Campanian	AUT	FFP	~	Conversion
Busulini et al. 1984	Siderolites	calcitrapoides	%	35	late Maastrichtian	ITA	EFP	%	Sovana et Lanaitto (Oliena)
Butterlin 1967	Siderolites	calcitrapoides	Lamarck	36	late Maastrichtian	GRC	EFP	%	du col d'altitude 860m à Kedronas, Grèce
Butterlin 1967 Caus 1988	Siderolites Siderolites	calcitrapoides	Lamarck %	35	late Maastrichtian Maastrichtian	ESP	EFP	%	Chemin Kato Gramatikon à Ano Gramatikon, à la cote 1030m (Province d'Édessa, Macédoine) Pvrenean basin
Caus 1988	Siderolites	sp.	%	32	Maastrichtian	ESP	EFP	×	Pyrenean basin
Caus & Comella 1983	Siderolites	calcitrapoides	%	32	Maastrichtian; 70.⊲70 Ma	ESP	EFP	%	Sierra del Montsec, Sierras Marginales; bassin sud-pyrénéen
Caus & Comella 1983 Caus et al. 1996	Siderolites	denticulatus calcitrapoides	%	32	Maastrichtian; <70-<70 Ma Maastrichtian	ESP	EFP	%	Sierra del Montsec, Sierras Marginales, bassin sud-pyrénéen Turkey
Causetal. 1996 Causetal. 1996	Siderolites	calctrapoides calctrapoides s.l.	% %	38	Maastrichtian		FFP	2(5)	Turkey South-Pyrenean
Causet al. 1996	Siderolites	calcitrapoides	%	31/32	middle-late Maastrichtian		EFP		North-Pyrenean
Causetal. 1996	Siderolites	calcitrapoides	%	31	late Maastrichtian	FRA	EFP	%	Gensac (France)
Cox 1937 Cox 1937	Siderolites Siderolites	calcitrapoides	%	56	% *		AFP AFP	8	Iran Jabal al Abyadh, near Yangul, Oman Peninsula
Cox 1937	Siderolites	calcitrapoides	%	56	ate Cretaceous	IRN	AFP	s s s s s s s s s s s s s s s s s s s	baba ai Abyata, incari Talixia, omain Felinisara Kuhi-Abbaba, Bakhtari Country
Dilley 1973	Siderolites	%	Lamarck	%	Maastrichtian	%	%	%	N Europe, S Europe, N Africa, Middle East, S USSR, India
Fleury 1977	Siderolites	calcitrapoides	%	36	late Cretaceous	GRC	EFP	%	coupe du Mavrovouni, Griechenlanc
Fleury et al. 1985 Fleury et al. 1985	Siderolites	cal citrapoides cal citrapoides	%	32	Maastrichtian Maastrichtian	ESP NLD	EFP	× ×	N Spain Netherlands
Fleury et al. 1985	Siderolites	calcitrapoides	%	56	Maastrichtian		AFP	w w	ian in the second se
Fleury et al. 1985	Siderolites	calcitrapoides	%	16	Maastrichtian		AFP	%	Ageria
Fleury et al. 1985 Fleury et al. 1985	Siderolites Siderolites	cal citrapoides cal citrapoides	%	18 22	Maastrichtian Maastrichtian		AFP AFP	*	Libya Saudi-Arabia
Fleury et al. 1985	Siderolites	calcitrapoides	70 96	22	Maastrichtian	SYR	AFP	~	Soluti - Manja
Fleury et al. 1985	Siderolites	cal citrapoides	%	46	Maastrichtian	PAK	ASP	×	Pakistan
Fleury et al. 1985	Siderolites	calcitrapoides	%	44	Maastrichtian		ASP	%	southern India
Fleury et al. 1990 Fleury et al. 1990	Siderolites	cal citrapoides cal citrapoides	%	36 62	Maastrichtian		EFP EFP	pl, fig. E ∝	nonts Valtou Yougoslavie septentrionale
Fleury et al. 1990	Siderolites	calctrapoides	%	38	%		EFP	l %	Turquie centrale
Fleuryet al. 1990	Siderolites	calcitrapoides	96	37	%		EFP	%	Serbie occidentale
Fleury et al. 1990	Siderolites	calcitrapoides	%	36 28	%		EFP AFP	[%]	Grèce orientale
Fleury et al. 1990 Fleury et al. 1990	Siderolites Siderolites	cal citrapoides cal citrapoides	76	28	76 96		AFP	×	Izyne Iran, Chaine du Zagros
Gaetani et al. 1980	Siderolites	calcitrapoides	Lamarck	73	late Maastrichtian	CHN	ASP	14(1,3,6)	Kangi Chu, Zanskar Range (Ladakh-Himalaya)
Görmüs 1999	Siderolites	calcitrapoides	Lamarck	38	early-Middle Maastrichtian	TUR	EFP	%	Fasanlikaya location, 10-15 km SW Hekimhan town center
Gowda 1964 Gowda 1964	Siderolites	cal citrapoides cal citrapoides	Lamarck Lamarck	44	Maastrichtian Maastrichtian	IND IND	ASP ASP	% %	Trichinopoly district; near the village of Kallacurchi Pondicherry district; South India
Hagn 1971	Siderolites	calctrapoides	Lamarck	33	late Maastrichtian	DEU	EFP	%	Amagmach SW Immenstadt, Allgäu
Hofker 1966	Siderolites	calcitrapoides	%	57	Dano-Maastrichtian		EFP	%	drill-hole Maastricht, G.B. 3496 (15)
Hofker 1966 Hofker 1966	Siderolites Siderolites	cal citrapoides cal citrapoides	%	57 57	Dano-Maastrichtian		EFP	» «	E.N.C.I. quarry, Lichtenberg section Kunrade-chalk
Hofker 1966 Hofker 1966	Siderolites	cal ctrapoides cal ctrapoides	76 94.	57	% Dano-Maastrichtian		EFP	×	Kunrade-chalk Abert Canal, cutting of Caster and Vroenhover
Hofker 1966	Siderolites	calcitrapoides	%	57	Dano-Maastrichtian	NLD	EFP	w w	Eiebosch
Hofker 1966	Siderolites	calcitrapoides	%	57	Dano-Maastrichtian	NLD	EFP	%	drill-hole Terblijt, G.B. 3525
Hofker 1966 Hofker 1966	Siderolites	cal citrapoides cal citrapoides	%	57	Dano-Maastrichtian Dano-Maastrichtian		EFP	8	Windhagen, north of Windhagen quarry Franssen-Nelissen
Hofker 1966	Siderolites	calcitrapoides	20 96	57	Dano-Maastrichtian		EFP	×	cuarry manssen-ivenssen Schieversberg, quarry Muyres and Bundersberg
Hofker 1966	Siderolites	calcitrapoides	96	57	Dano-Maastrichtian	NLD	EFP	%	de Tombe (37)
Hofker 1966	Siderolites	calcitrapoides	%	57	%	NLD	EFP	% ~	t Rooth (38)
Hofker 1966 Hofker 1966	Siderolites Siderolites	cal citrapoides cal citrapoides	%	57 57	Dano-Maastrichtian Dano-Maastrichtian		EFP	% «	E.N.C.J. quarry, Lichtenberg section (39) Well Fortress St. Pieter, drill-hole G B. 194 (40)
Hofker 1966	Siderolites	calcitrapoides	70 96	57	Dano-Maastrichtian	NLD	EFP	8	quarry van der Zwaan (41)
Hofker 1966	Siderolites	calcitrapoides	%	57	Dano-Maastrichtian	NLD	EFP	%	Valkenburg, municipal grotto (42)
Hofker 1966	Siderolites	calcitrapoides	%	57	Dano-Maastrichtian		EFP	%	drill-hole Sibbe, G.B. 3621 (43)
Hofker 1966 Hofker 1966	Siderolites	cal citrapoides cal citrapoides	%	57 57	Dano-Maastrichtian Dano-Maastrichtian		EFP	%	quarry Curfs (44) Keerderberg (45)
Hofker 1966	Siderolites	calcitrapoides	%	57	Dano-Maastrichtian	NLD	EFP	%	drill-hole Weett, G.B. 3670 (53)
Hofker 1966	Siderolites	calcitrapoides	%	57	Dano-Maastrichtian		EFP	%	drill-hole Heisterbrug, S.M. XVIII (63)
Hofker 1966	Siderolites	calcitrapoides	%	57	Paleocene, Dano-Maastrichtian	NLD	EFP	%	drill-hole Puth, S.M. XVII (64)

Appendix - Tables of the Genera

ibdelghany 2003 Ibdelghany 2003	Fig. 1	Sulcoperculina Orbitoides, Sulcoperculina	limestone, pink limestone chalky limestone	%
amovich et al. 2002	Fig. 1 Fig. 1	Urbitoides, Suicoperculina %	chaik y limestone %	%
amovich et al. 2002	Fig. 1	%	%	%
Omari & Sadek 1976	%	Omphalocyclus, Orbitoides	%	%
Omari & Sadek 1976 dreieff & Neumann 1983	%	Omphalocyclus	% *	biozone CIVa
ndreieff & Neumann 1983	20	20	76	biozone CIVb
ndreieff & Neumann 1983		ý,		profondeurs: 77,30m; 74,60m; biozone CIVa
ndreieff & Neumann 1983	96	%	96	biozone CIVa
ndreieff & Neumann 1983	%	%	96	biozone CM
ndreieff & Neumann 1983	%	96	96	biozone CV
ndreieff & Neumann 1983	%	%	%	biozone CM
ndreieff & Neumann 1983	%	%	%	biozone CV
ndreieff & Neumann 1983	%	%	96	biozone CIVb
ndreieff & Neumann 1983	%	%	%	biozone CVII
ndreieff & Neumann 1983	%	%	%	biozone CIVb
ndrusov 1934 rni 1933	%	Orbitoides	%	%
rni 1933	%	Orbitoides media, O. apiculata, Lepidorbitoides paronai	Bindemittel von sandigen, brecciösen, setten kongl. Lagen, eingeschaltet in Plattenkalk	%
rni 1933	%	%	fossilführender Sandstein	%
rni 1933 zem a et al. 1979	76	Orbitoides, Lepidorbitoides, Sulcoperculina	brecciöse bis kongl. Lage des oberen Plattenkalk biomicronudite (arainstone): open platform erwironment	70
zema et al. 1979 zema et al. 1979	20	Sulcoperculina, Orbitoides, Lepidorbitoides	terrigenous biomicritic limestone (packstone), irregularly recrystallized; open carbonate platform facies	70 07
zema et al. 1979 zema et al. 1979	Txt Fig. 1-3	Lepidorbitoides, Omphalocyolus, Reseudorbitoides, Orbitoides		Clobatrumana lannaranti C. an
arattolo & Schiattarella (IT)	1 Al 1 g. 1 0 %	Educerationado, omprideogenia, reducerationado, orantenidos	shamstone bearing conglomeratic sst. calcareous polygenic conglomerate	Globotruncana lapparenti, G. sp. keine genaue Lokalität, Paper aus dem Internet!!!
arattolo & Schiattarella (IT)		Hellenocyclina	whitish sub-crystalline limestone	keine genaue Lokalität, Paper aus dem Internet!!!
arrier & Neumann 1959		Nummofallotia cretacea	calcaires grumeleux plus ou moins fins	Kono genero colonita, i apor ano den meditori
arrier & Neumann 1959	%	Cuneolina, Dictyopsella, Nummofallotia cretacea	calcaires grumeleux plus ou moins gréseux et grossiers	%
arrier & Neumann 1959	%	Dictyopsella, Nummofallotia cretacea, Orbitoides media	calcaires finement grumeleux	%
arrier & Neumann 1959	%	Meandropsina, Nummofallotia cretacea	calcaires détritiques plus ou moins gréseux	%
ignot 1972	Page 86	Orbitoides, Lepidorbitoides	%	%
ianot 1972	Page 86	Orbitoides, Lepidorbitoides	96	%
ignat 1972	Page 87	%	%	%
lignot 1972	Page 94	Orbitoides, Lepidorbitoides	%	%
lignot & Neumann 1997	%	Orbitoides	%	Paläolatitude angegeben
lignot & Neumann 1997	%	Orbitoides	%	Paläolatitude angegeben
usulini et al. 1984	Fig. 2	Orbitoides apiculata, Clypeorbis mamillata, Lepidorbitoides cf. socialis	%	%
utterlin 1967	*	Orbitoides, Omphalocyclus, Lepidorbitoides, Sulcoperculina	2	%
utterlin 1967 aus 1988		Lepidorbitoides, Orbitoides, Sulcoperculina	Carbonate platform, deeper protected shelf (40-50m); open marine shelf	×
aus 1966 aus 1988	20 07	70 0/	carbonate platform, deeper protected shelf (40-60 m); open marine shelf terrigeneous platform; protected shelf (0-60 m); open marine shelf	20 07
aus & Comella 1983		Cuneolina, Didyopsella, Omphalocyclus	ennes dous plation, protected aller (o do in), cper maine aller	
aus & Comella 1983		Cuneolina, Dictyopsella, Omphalocyclus		w w
aus et al. 1996	%	Orbitoides		%
ausetal. 1996		Orbitoides, Omphalocyclus, Lepidorbitoides	1 million and the second se	w w
aus et al. 1996		Orbitoides, Omphalocyclus, Lepidorbitoides		w w
aus et al. 1996	96	Orbitoides, Lepidorbitoides	%	%
aus et al. 1996 lox 1937	%	Loftusia, Omphalocyclus macropora	%	%
iox 1937	%	Omphalocyclus macropora	%	%
ox 1937	%	Omphalocyclus macropora, Orbitoides cf. media	%	%
illey 1973	Table 2	%	%	%
leury 1977	Fig. 1	Omphalocyclus	%	%
leuryet al. 1985	Fig. 3	%	%	%
leuryet al. 1985	Fig. 3 Fig. 3 Fig. 3	%		%
leuryet al. 1985	Fig. 3	%	%	%
leury et al. 1985	Fig. 3 Fig. 3	%	96	%
leury et al. 1985	Fig. 3	%	%	%
leury et al. 1985	Fig. 3	76 or	×) //
leuryet al. 1985 leuryet al. 1985	Fig. 3 Fig. 3	70	70	70
leury et al. 1985 leury et al. 1985	Fig. 3	76	75	70 07
leuryet al. 1985 leuryet al. 1990	Fig. 3 Fig. 1	70	70	schlechte Abb.
leuryet al. 1990	1 '9. ' %	/0 %	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N. N.
leurvet al. 1990	%	%		
leury et al. 1990	°.	96		9K.
eurvetal. 1990	96	°.	96	%
eury et al. 1990	%	96 96	% %	%
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euryet al. 1990 euryet al. 1990 euryet al. 1990 aetaniet al. 1980	% % Fig.1	% % Omphalocyclus	% % grey silly marts, dark grey marty packstone, very shallow	% % comparable with present day low attitude Calcarina assemblage
euryet al. 1990 euryet al. 1990 euryet al. 1990 eataniet al. 1980 immüs 1999	%	Orbitoides	%	% % comparable with present day low attitude Calcorine assemblage %
uryet al. 1990 uryet al. 1990 etaniet al. 1990 mūs 1999 wda 1964	% Page 305	% % % % % % % % % % % % % % % % % % %	%	% % comparable with present day low attitude Calcarina assemblage %
uryetal. 1990 uryetal. 1990 uryetal. 1990 etanietal. 1980 mūs 1999 voda 1964 woda 1964	% Page 305 Page 308	Orbitoides Lepidorbitoides, Nummofallotia, Orbitocyclina %	%	% % comparable with present day low attitude Calcarina assemblage % %
uryetal. 1990 uryetal. 1990 uryetal. 1990 etanietal. 1980 mūšs 1999 vvda 1964 woda 1964	% Page 305 Page 308 Page 20	Orbitoides	%	% % comparable with present day low attitude Calcarina assemblage % % % %
eury et al. 1990 eury et al. 1990 extra et al. 1990 immüs 1999 yvorda 1964 yvorda 1964 gan 1971 niker 1966	% Page 305 Page 308 Page 20 p.66.fg.42:tab.15	Orbitoides Lepidorbitoides, Nummofallotia, Orbitocyclina %	%	% % comparable with present day low attitude Calcarina assemblage % % % % % % % % %
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eury et al. 1990 eury et al. 1990 eury et al. 1990 omite 1993 ovida 1964 ovida 1964 ovida 1964 ovida 1964 other 1966 other 1966	% % Page 305 Page 206 Page 206 Page 206 p.66, fig.42, tab. 15 p.61, fig.51, 1-7, fig. 52 p.11, fig.51, 1-7, fig. 52 p.126, fig.62 p.126, fig.62, fig.62 p.126, fig.63, fig.64 p.130, fig.85, fig.65 p.130, fig.85, fig.65 p.130, fig.85, fig.65, and fig	Orbitoides Lepidorbitoides, Nummofallotia, Orbitocyclina %	%	comparable with present day low attlude Calcarina assemblage comparable
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Hofker 1966	Siderolites	lasvizata	er 199	67	Dano-Maastrichtian	NLD	EFP	I av	IS N.C. Law	the second se
	Siderolites	laevigata	76	57 57	Dano-Maastrichtian		FFP	70		ry, Lichtenberg section
Hofker 1966		laevigata	%		%	NLD		%	Kunrade-cha	
Hofker 1966	Siderolites	laevigata	%	57 57	Paleocene, Dano-Maastrichtian	NLD	EFP	%	Albert Canal	outting of Caster and Vroenhover
Hotker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%		sen-Nelissen
Hofker 1966	Siderolites	laevigata	%	57	%	NLD	EFP	%	Schieversbe	rg, quarry Muyres and Bundersberg
Hofker 1966	Siderolites	laevigata	%	57	%	NLD	EFP	%	ce Tombe (3	7)
Hofker 1966	Siderolites	laevigata	%	57	%	NLD	EFP	%	t Rooth (38)	
Hofker 1966	Siderolites	laevigata	%	57	%	NLD	EFP	%	E.N.C.I. qua	ry, Lichtenberg section (39)
Hofker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%		s St. Pieter, drill-hole G B. 194 (40)
Hofker 1966	Siderolites	laevigata	96	57	Dano-Maastrichtian	NLD	EFP	%		er Zwaan (41)
Hofker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%	Valkenburg,	municipal grotto (42)
Hofker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%	crill-hole Sib	be, G.B. 3621 (43)
Hofker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%	cuarry Curfs	(44)
Hofker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%	Keerderberg	(45)
Hofker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%	Ravensbosc	h (46)
Hofker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%	cuarry Curfs	eastern section (47)
Hofker 1966	Siderolites	laevigata	%	30	Dano-Maastrichtian	BEL	EFP	%	Albert Canal	cutting of Vroenhoven, Belgium (48)
Hofker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%	cuarry Curfs	western section (50)
Hofker 1966	Siderolites	laevigata	%	30	Paleocene, Dano-Maastrichtian	BEL	FFP	%	Albert Canal	km 23.250 and km 23.650, Belgium (52)
Hofker 1966	Siderolites	laeviqata	96	57	Dano-Maastrichtian	NLD	EFP	%	crill-bole We	et, G.B. 3670 (53)
Hofker 1966	Siderolites	laevigata	%	57	Dano-Maastrichtian	NLD	EFP	%	crill-hole Hei	sterbrug, S.M. XVIII (63)
Hofker 1966	Siderolites	laevigata	96	57	Paleocene, Dano-Maastrichtian	NLD	EFP	%	crill-bole Put	h, S.M. XVII (64)
Hofker 1966	Sidernlites	laevigata	96	57	Dano-Maastrichtian	NLD	FFP	94		een-Centrum, S.M. XVI (66)
Hofker 1966	Siderolites	cf vidali	~	30	Dano-Maastrichtian	BEL	FFP	~		cuting of Yoenhoven, Belgium (48)
Hofker 1966	Sidernlites	cf vidali	e e	57	Dano-Maastrichtian	NLD	FFP	×		well and well i (5)
Hofker 1966	Siderolites	calcitrapoides laevigata	~	67	Dano-Maastrichtian	NLD	FFP	~		laurits III (49)
Hofker 1966	Siderolites	calctrapoides laevigata calctrapoides laevigata	70	57	Dano-Maastrichtian	NLD	FFP	20	Notetterterre -	aunts III (49) vell I and well II (58)
Hottinger 1966	Siderolithes	calcitrapoides	76 Lamarck	32	Maastrichtian	ESP	EFP	70	Montsech	waitana waiti (oo)
Inan 1996a	Siderolites	calctrapoides	0/	38	Maastrichtian	TUR	EFP	70 0/	Koyulhisar-S	ives
Inan 1996a Ion 1975	Siderolites		76	44	early Maastrichtian	ROM	FFP	70		ivas e du Ghimbavu
10113/5	Sider Ulites	calcitrapoides	76	41	conty material later	N OWI	F ^T	76	r:isnov-valle	a va vstembarvo
1 1075	014		~		to be a set of the set				Diana	
lon 1975	Siderolites	SD.	% ~	41	late Maastrichtian	ROM	EFF A	- % 		e du Ghimbavu
Kalantari 1976 Kalantari 1976	Siderolites	sp.	%	56 56	Maastrichtian	IRN	AFP AFP	24(1) 26(2)	Sarvestan ar Sarvestan ar	
	Siderolites	calcitrapoides	%	56	Maastrichtian					
Kalantari 1976	Siderolites	calcitrapoides	Lamarck	56	Maastrichtian	IRN	AFP	27(14-15)	Sarvestan ar	ea, SWIran
Kureshy 1977	Siderolites	calcitrapoides	(Lamarck)	46	Maastrichtian	PAK	ASP	%	Lakhi Range	, Sind
Kureshy 1977	Siderolites	calcitrapoides	(Lamarck)	46	late Campanian - early Maastrichtian	PAK		%	Murree Brev	ery, Baluchistan
Kureshy 1977	Siderolites	calcitrapoides	(Lamarck)	46	late Campanian - early Maastrichtian	PAK	ASP	%	Hamai , Balu	
Kureshy 1977	Siderolites	calcitrapoides	(Lamarck)	46	early Maastrichtian	PAK	ASP	%	Harnai, Balu	chistan
Kureshy 1980	Siderolites	calcitrapoides	(Lamarck)	46	Campanian-Maastrichtian	PAK	ASP	%	Fakistan	
Loeblich & Tappan 1988	Siderolites	sp.	Lamarck	%	Maastrichtian	%	%	%	Europe, Mide	east, India
Loeblich & Tappan 1988	Siderolites	calcitrapoides	Lamarck	57	Maastrichtian	NLD	EFP	783(1-8)		, Maastricht, Netherlands
Luperto Sinni 1966	Siderolites	sp.	%	35	late Senonian	ITA	EFP	%	Fulo di Altan	nura, Murge
Luperto Sinni 1968	Siderolites	sp.	%	35	Senonian	ITA	EFP	%	Murge	
Mavrikas et al. 1994	Siderolites	sp.	%	36	early Maastrichtian	GRC	EFP	%	Ori Valtou	
Mavrikas et al. 1994	Siderolites	calcitrapoides	Lamarck	36	late Maastrichtian	GRC	EFP	%	Ori Valtou	
McGowran 1968	Siderolites	sp.	%	46	Maastrichtian	PAK	ASP	%	Sind, West P	akistan
McGowran 1968	Siderolites	sp.	%	44	Maastrichtian	IND	ASP	%	Trichinopoly	district, South India
McGowran 1968	Siderolites	sp.	%	44	Maastrichtian	IND	ASP	%	Fondicherry	district, South India
Meric et al. 1997	Siderolites	calcitrapoides	%	38	late Cretaceous	TUR	EFP	%	Southeast of	Sereflikochisar, Tuzgölü Basin, Central Anatolia
Nagappa 1959	Siderolites									
		calcitraphides	l amarck	46	Maastrichtian	PAK	ASP	2(1)	Dunghan Ra	
		calcitrapoides	Lamarck Lamarck	46 45	Maastrichtian Maastrichtian	PAK		2(1)	Dunghan Ra	
Nagappa 1959	Siderolites	calcitrapoides calcitrapoides	Lamarck	46 45 44	Maastrichtian	IND	ASP	2(2)	Dunghan Ra rear Cherrar	punji , Khasi Hills, Assam
Nagappa 1959 Nagappa 1959	Siderolites Siderolites	calcitrapoides calcitrapoides calcitrapoides	Lamarck Lamarck	46 45 44 46	Maastrichtian Maastrichtian	IND IND	ASP ASP	2(1) 2(2) 2(3) %	Dunghan Ra rear Cherrap Trichinopoly	bunji, Khasi Hills, Assam district; 10°49' N, 78°42' E
Nagappa 1959	Siderolites	calcitrapoides calcitrapoides	Lamarck	46 45 44 46	Maastrichtian	IND	ASP	2(2) 2(3)	Dunghan Ra rear Cherrar	bunji, Khasi Hills, Assam district; 10°49' N, 78°42' E
Nagappa 1959 Nagappa 1959	Siderolites Siderolites	calcitrapoides calcitrapoides calcitrapoides	Lamarck Lamarck	46 45 44 46	Maastrichtian Maastrichtian	IND IND	ASP ASP	2(2) 2(3)	Dunghan Ra rear Cherrap Trichinopoly	bunji, Khasi Hills, Assam district; 10°49' N, 78°42' E
Nagappa 1959 Nagappa 1959 Nagappa 1959	Siderolites Siderolites Siderolites	caldtrapoides caldtrapoides caldtrapoides caldtrapoides	Lamarck Lamarck	44 46	Mæstrichtian Mæstrichtian Mæstrichtian	IND IND PAK	ASP ASP ASP	2(2) 2(3) %	Dunghan Ra rear Cherrap Trichinopoly Lakhi Range	unii, Khadi Hilis, Assam district, 10°49′ N, 78°42′ E ,Sind
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959	Siderolites Siderolites Siderolites Siderolites	calcitrapoides calcitrapoides calcitrapoides calcitrapoides calcitrapoides	Lamarck Lamarck Lamarck %	44 46 46	Meastrichtian Meastrichtian Meastrichtian Meastrichtian	IND IND PAK	ASP ASP ASP	2(2) 2(3) %	Dunghan Ra rear Cherra; Trichinopoly Lakhi Range Quetta, Balu	urii, I (Aasi Hille, Assam dairic; 10° 49' N, 78° 42' E Sind
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959	Siderolites Siderolites Siderolites Siderolites Siderolites	cal drapoides cal drapoides cal drapoides cal drapoides cal drapoides cal drapoides cal drapoides	Lamarck Lamarck	44 46	Meestrichtien Meestrichtien Meestrichtien Meestrichtien Meestrichtien	IND IND PAK PAK PAK	ASP ASP ASP ASP ASP	2(2) 2(3) %	Dunghan Ra rear Cherray Trichinopoly Lakhi Range Quetta, Balu Rakhi Nala, 3	urii, Irbaë Hills, Assam district; 10°49′N, 76°42′E , Sind chistan Sulaiman Range
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	calcitrapoides calcitrapoides calcitrapoides calcitrapoides calcitrapoides	Lamarck Lamarck Lamarck %	44 46 46	Meastrichtien Meastrichtien Meastrichtien Meastrichtien Meastrichtien	IND IND PAK PAK PAK	ASP ASP ASP ASP ASP ASP	2(2) 2(3) %	Dunghan Ra rear Cherray Trichinopoly Lakhi Range Quetta, Balu Rakhi Nala, central Assa	urii, I/Rais Hills, Assam dainc; (1) 49 N, 7842 E Sind chistan Sulainan Range m
Nадарра 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	cal drapoides cal drapoides cal drapoides cal drapoides cal drapoides cal drapoides cal drapoides cal drapoides sp.	Lamarck Lamarck Lamarck %	44 46 46	Meestichtien Meestichtien Meestichtien Meestichtien Meestichtien Meestichtien Campenien	IND IND PAK PAK PAK IND FRA	ASP ASP ASP ASP ASP ASP EFP	2(2) 2(3) %	Dunghan Ra rear Cherrar Trichinopoly Lakhi Range Quetta, Balu Rakhi Nala, certiral Assa Maurens OC	urii, Irbai Hills, Assam diarid; (10'49'N, 76'42' E , Sind chistan Gulaman Range m m diagane; France)
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1957 Neumann 1997 Neumann 1997	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides s0, 50, 50, 50, 50, 50, 50, 50, 50, 50, 5	Lamarck Lamarck Lamarck %	44 46 46	Meestindtein Meestindtein Meestindtein Meestindtein Meestindtein Campenien %	IND IND PAK PAK PAK IND FRA ESP	ASP ASP ASP ASP ASP ASP EFP EFP EFP	2(2) 2(3) %	Dunghan Ra rear Cherray Trichinopoly Lakhi Range Quetta, Balu Rakhi Nala, central Assa Naurens (Do Maurens (Do	urii, IKasi Hilla, Assam diatric; (1749 N, 7842 E Slaid Sulainan Range mdragne; France) Io Noguera Rhagotzana, Rio Noguera Pallaresa; Spair
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Neumann 1997 Neumann 1997 Neumann 1997	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides sp. sp. sp. sp.	Lamarck Lamarck Lamarck %	44 46 46	Meestichtien Meestichtien Meestichtien Meestichtien Meestichtien Campanien % Campanien %	IND IND PAK PAK PAK IND FRA FRA	ASP ASP ASP ASP ASP ASP EFP EFP EFP EFP	2(2) 2(3) %	Dunghan Ra rear Cherrar Trichinopoly Lak'ti Range Quetta, Balu Pakhi Nala, central Assa Naurens (D Nontesch (R rorthem Aug	urii, Irbai Hills, Assam diarict, 10°49'N, 76°42' E Sind chistan Guaman Range m m diagne, France) io Noguera Ribagorzana, Rio Noguera Pallaresa; Spair diane
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides addrapoides addrapoides addrapoides addrapoides addrapoides addrapoides valdrapoides addrapoides valdrapoides addrapoides valdrapoides addrapoides valdrapoides valdrapoides valdrapoides	Lamarck Lamarck Lamarck %	44 46 46	Meestichten Meestichten Meestichten Meestichten Meestichten Campanien Campanien Campanien	IND IND PAK PAK PAK IND FRA ESP FRA FRA	ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP	2(2) 2(3) %	Dunghan Ra rear Cherray Tirchinopoly Lakhi Range Quetta, Balu Rathi Nala, s Central Assa Maurens Dr Maurens Dr Montsech (R rorthem Aqu rorthem Aqu	urii, IKasi Hilla, Assam diatric; 10°49'N, 78°42'E Stalinan Range mdagane, France) Io Noguera Ribagorzana, Rio Noguera Pallaresa; Spair diatine
Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1957 Nagapa 1957 Nagapa 1957 Nagapa 1957 Nagapa 1957 Nagapa 1957 Nagapa 1957 Nagapa 1957 Nagapa 1957 Nagapa 1957	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides and caldrapoides sp. sp. sp. caldrapoides ca	Lamarck Lamarck Lamarck %	44 46 46	Mestindhian Mestindhian Mestindhian Meastindhian Meastindhian Campanian Campanian Campanian Campanian	IND IND PAK PAK IND FRA FRA FRA FRA	ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP	2(2) 2(3) %	Dunghan Ra rear Cherrar Trichinopoly Lakti Range Ouetta, Balu Pakhi Nala, central Assa Maurens (Dr Montsech (R rofthem Aq rofthem Aq rofthem Aq	urin, IK-bai Hille, Assam diarict, 101-491 N, 76142 E Si daiman Range rrógong: France) io Noguera Ribagorzana, Rio Noguera Pallaresa; Spain dalane dialane
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides sp. prævidali charentensis prævidali charentensis prævidas	Lamarck Lamarck Lamarck %	44 46 46	Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Campanian Campanian Campanian Campanian Campanian Campanian	IND IND PAK PAK PAK IND FRA FRA FRA FRA FRA	ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP	2(2) 2(3) %	Dunghan Re reac Cherray Trichinopoly Lakhi Range Ouetta, Balu Rakhi Nala, central Assa Maurens (D Nortsech (R rothem Aqu rothem Aqu rothem Aqu	urii, I/Rea Hills, Assam diatric; (10°49'N, 78°42' E Slaid Suainan Range m Androgne, France) Io Noguera Rilbagorzana, Rio Noguera Pallaresa; Spair Intaline Intaline
Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1957 Nagapa 1959	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides sp. sp. sp. sp. caldrapoides sp. sp. caldrapoides sp. sp. sp. caldrapoides sp. sp. sp. sp. sp. sp. sp. sp. sp. sp	Lamarck Lamarck Lamarck % % % % % % % % %	44 46 46 45 31 32 31 31 31 31 31 31 31 31	Maestirchtian Maestirchtian Maestirchtian Meestirchtian Meestirchtian Campanian Campanian Campanian Campanian Campanian early Maestirchtian Campanian	IND IND PAK PAK PAK FRA FRA FRA FRA FRA FRA FRA	ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP EFP EFP	2(2) 2(3) %	Dunghan Ra rear Cherray Trichinopoly Laktri Range Quetta, Balu Rahti Nala; certar J Assa Naurens (Dr. Nordsech (T rothem Aq, rothem Aq, orthem Aq, Quettar Agenta (C)	urri, IV.Reis Hills, Assam diatric; (10 49 N, 78 42 E Sind Unama Ange Digger, France) in Neguera Ribagorzana, Rio Noguera Pallaresa; Spain diatrine diatrine diatrine diatrine diatrine diatrine diatrine diatrine diatrine diatrine diatrine
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Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1957 Nagappa 1957 Nagaman 1957 Nagaman 1957 Nagaman 1957 Nagaman 1957 Nagaman 1957 Nagaman 1957	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides sp. sp. sp. praevidali vidali charentensis praecaldrapoides sp. sp. sp. sp.	Lamarck Lamarck Lamarck % % % % % % % % %	44 46 46 45 31 32 31 31 31 31 31 31 31 31	Maestirchtian Maestirchtian Maestirchtian Maestirchtian Meestirchtian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian	IND IND PAK PAK PAK FRA FRA FRA FRA FRA FRA FRA FRA FRA	ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP EFP EFP EF	2(2) 2(3) %	Dunghan Ra rear Cherray Trichinopoly Laktri Range Quetta, Balu Rathi Nala; certal Assa Naurens (Dr. Nordsech (R rothem Aq, rothem Aq, oriorden Ada oriorde (bet Oriorde (bet Oriorde (bet Oriorde (bet Oriorde (bet Oriorde (bet Oriorde (bet Oriorde (bet Oriorde (bet Oriorde (bet	urii, IK-Bai Hille, Assam diatric; 101-99 N, 78142 E Sind Cristen drógne; Frances Infoguera Rhaporzana, Rio Noguera Pallaresa; Spair b Noguera Rhaporzana, Rio Noguera Pallaresa; Spair diatria diatria diatria Haine Haine Haine Heterberg, Sudth of Maadrich, Hollande
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Neumann 1997 Neumann 1997	Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides data poides caldrapoides sp. sp. sp. sp. sp. sp. sp. sp. sp. sp	Lamarck Lamarck Lamarck % % % % % % % % % % % % % % % %	44 46 46 45 31 32 31 31 31 31 31 31 31 31	Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Maastichtian Maastichtian	IND IND PAK PAK PAK IND FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP EFP EFP EF	2(2) 2(3) % % % % % % % % % % % % % % % % % %	Durghan Ra reac Cherray Lickin Range duetta, Balu Rahin Hala, contrai Assa Maurens QC Northen Ag, rothen Ag, rothen Ag, rothen Ag, corthen	urii, I/Reia Hills, Assam district; 01°49'N, 78°42'E Stalarn Range m drdgme, France) in Noguera Ribagorzana, Rio Noguera Pallaresa; Spair ditaline
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Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Neumann 1957 Neumann 1997 Neumann 1997	Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.	Lamarck Lamarck Lamarck % % % % % % % % % % % % % % % % % % %	44 46 46 45 31 32 31 31 31 31 31 31 31 31	Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian	IND PAK PAK PAK PAK PAK PAK PAK PAK FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	ASP ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP EFP EFP EF	2(2) 2(3) % % % % % % % % % % % % % % % % % % %	Durighen Re reac Cherray Lakhi Range dutti Range dutti Range dutti Range dutti Range certai Jassa Maurena (Dr Mortsech, IK roothen Aq roothen Aq roothen Aq Orionde (Bar EINCI, Sant- Curte, noth- Curte, noth- Course dutti, noth-	urii, I/Reia Hills, Assam district; 10°49'N, 78°42'E , Sind SUaiman Range m drdgme, France) in Noguera Ribagorzana, Rio Noguera Pallaresa; Spair ditaline di
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Neumann 1957 Neumann 1937 Neumann 1937	Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides sp. sp. sp. praevidai vidai praevidai sp. sp. sp. sp. sp. sp. sp. sp. sp. sp.	Lamarck Lamarck Lamarck % % % % % % % % % % % % % % % % % % %	44 46 46 45 31 32 31 31 31 31 31 31 31 31	Maestirchten Maestirchten Maestirchten Maestirchten Maestirchten Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Learpanian Maestirchten Maestirchten Maestirchten Maestirchten Maestirchten Maestirchten Maestirchten Maestirchten Maestirchten Maestirchten	IND PAK PAK PAK IND FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	ASP ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP EFP EFP EF	2(2) 2(3) % % % % % % % % % % % % %	Dunghan Ra rear Cherray Trichinopoly Lakhi Range Quetta, Balu Rahi Nala; certal Assa Naurens (Dr. Nordsech (R rothem Aq, rothem Aq, oriorde, Rah Quironde (bet Oironde, Iba Curte, nonth- Cours, onth- Cours, du Rt Sondage 40 Course du Rt	urii, IKnais Hills, Assam diatric; 101-99 N, 7842 E Sind Chistan Gragne; France) in Noguera Rhagorzana, Rio Noguera Pallarese, Spair datine datine wen Motagne and SI. Paleis, Ponci); France sediment Haline Haline Haline Heaterberg, Such Or Masafricht, Hollande eest of Masafricht, Hollande eest of Masafricht, Hollande eest of Masafricht, Hollande moto-La Brande Charente-Martime) cyrbiae (Charente-Martime)
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Neumann 1957 Neumann 1997 Neumann 1997	Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides sp. sp. sp. vidal char ortensis pmecaldrapoides sp. sp. sp. sp. sp. sp. sp. sp. sp. sp	Lamarck Lamarck Lamarck % % % % % % % % % % % % % % % % % % %	44 46 46 45 31 32 31 31 31 31 31 31 31 31	Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian Maastichtian	IND IND PAK PAK FRA	ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP EFP EFP EF	2(2) 2(3) % % % % % % % % % % % % %	Dunghan Ra reac Cherray Lakhi Range dutti Range dutti Range Martin Mala ; corrai Jassa Martin Mala ; corrai Jassa Martin Mala ; corrai Jassa Martin Mala ; corrain (Da rothem Aq Oronde (Da Oronde (Da Cironde (Da	urii, I/Rais Hills, Assam distinct; 107-93 N, 78-92 E Stainan Range m drdgme, France) in Noguera Ribagorzana, Rio Noguera Pallaresa; Spair ditaline
Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Nagappa 1959 Neumann 1957 Neumann 1937 Neumann 1937	Siderolites Siderolites	caldră polides caldră polides caldră polides caldră polides caldră polides caldră polides caldră polides caldră polides se, praevidali charentensis praecaldră polides sp. sp. sp. sp. sp. sp. sp. sp. sp. sp	Lamarck Lamarck Lamarck % % % % % % % % % % % % % % % % % % %	44 46 46 45 31 32 31 31 31 31 31 31 31 31	Maestirchten Maestirchten Maestirchten Maestirchten Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Maestirchten Campanian Campanian Barton Maestirchten Maestirc	IND PAK PAK IND FRA FRA FRA FRA FRA FRA FRA FRA FRA FRA	AS9 AS9 AS9 AS9 EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	2(2) 2(3) % % % % % % % % % % % % %	Durghen Ré rear Cherray Tichtinopoly, Lakht Range ouetta, Balu Rathi Nala, central Assa Naurens (D Montsech (R northem Aq, northem Aq, northem Aq, northem Aq, northem Aq, northem Aq, northem Aq, corthem Aq, cor	urii, Kholi Hilla, Assam dictric; 101-94 N, 784-2E , Sind Chistan Gridarne, France) in Koguera Robegorzana, Rio Noguera Pallaresa, Spair diane diane Manuel Andrea and SJ. Palais, Ponci, France Hadrone Heartaberg, Sudh O Maastricht, Hollande eest of Maastricht, Hollande eest of Maastricht, Hollande eest of Maastricht, Hollande cest of Maastricht, Hollande conscue Bander Marttime) Charerte-Marttime)
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Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nauman 1957 Nauman 1997 Nauman 1997	Sideroittes Sidero	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides sp. sp. sp. sp. sp. sp. sp. sp. sp. sp	Lamarck Lamarck Lamarck Lamarck S % % % % % % % % % % % % % % % % % %	44 46 46 31 31 31 31 31 31 31 31 31 31 31 31 31	Meestinchtein Meestinchtein Meestinchtein Meestinchtein Meestinchtein Campanian Campanian Scampanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Meestinchtein Mee	IND PAK PAK VID FESPA FRAA FRAA FRAA FRAA FRAA FRAA FRAA FR	ASP ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP EFP EFP EF	2(2) 2(3) % % % % % % % % % % % % %	Durghen Ré rear Cherray Tichtinopoly, Lakht Range ouetta, Balu Pathi Nala, certal Assa Naurens (D Nortsch (R northen Aq, northen Aq, course J, the Course J, the Course A, the Course	urini, IKneis Hille, Assem distinct, 101-94 N, 78142 E , Sind distinct, 101-94 N, 7814
Nagapa 1959 Neuman 1937 Neuman	Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides des poides so. sp. praevidal charentenis sp. daliticapoides sp. praevidal prae	Lamarck Lamarck Lamarck Lamarck % % % % % % % % % % % % % % % % % % %	44 46 46 31 31 31 31 31 31 31 31 31 31 31 31 31	Maestinchtein Maestinchtein Maestinchtein Maestinchtein Maestinchtein Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Maestinchtein	IND P AK K K K P AND F F R R A A A A A A A A A A A A A A A A	AS9 AS9 AS9 AS9 AS9 EFP EFP EFP EFP EFP EFP EFP EFP EFP EFP	2(2) 2(3) % % % % % % % % % % % % %	Durghan Ra rear Cherray I di dinopoli Lakhi Range Alta Salu Rahi I Mala ; contal Assa Maurena QD Mottem Aq rothem Aq	urini, IKnes Hills, Assam distinct, 101 491 N, 78142 E , Sind children Kange rooping: Frinco) io Noguera Rbagorzana, Rio Noguera Pallaresa; Spain talane talane were Motagine and SL. Palais, Pons); France vere Motagine and SL. Palais, Pons); France vere Motagine and SL. Palais, Pons); France vere Motagine and SL. Palais, Pons); France sed to Maastricht, Hollande cest of Maastricht, Hollande
Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1957 Nagapa	Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides sp. sp. sp. sp. sp. sp. sp. sp. sp. sp	Lamarck Lamarck Lamarck Lamarck Model Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé	44 46 46 47 47 37 31 31 31 31 31 57 57 31 31 31 31 31 31 31 31 31 31 31 31 31	Maestinchtein Maestinchtein Maestinchtein Maestinchtein Maestinchtein Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Maestinchtein Maes	IND PAK PAKUA FESPA FRRA FRRA FRRA FRRA FRRA A A FRRA A A A	ASP ASP ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP EFP EFP EF	2(2) 2(3) % % % % % % % % % % % % %	Durghan Ré rear Cherray Tichtinopoly, Lakhf Range Ouetta, Balu Pathi Nala, central Assa Maurens (D Nortsech (R rothem Aq, rothem Aq,	uril, IKneis Hills, Assam dictric, 101 491 N, 78142 E , Sind chistan chistan mdgne, France) in Noguera Rhagorzana, Rio Noguera Pallaresa, Spair idane diane termine ven Motagne and St. Paleis, Pons), France ven Motagne and St. Pal
Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1957 Nagapa 1957 Neuman 1997 Neuman 1997	Siderolites Sidero	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides societapoides sp. sp. sp. sp. sp. sp. sp. sp. sp. sp	Lamarck Lamarck Lamarck Lamarck % % % % % % % % % % % % % % % % % % %	44 46 46 47 47 37 31 31 31 31 31 57 57 31 31 31 31 31 31 31 31 31 31 31 31 31	Maestirchten Maestirchten Maestirchten Maestirchten Meestirchten Campanien Campanien Scampanien Campanien Campanien Campanien Campanien Campanien Campanien Campanien Campanien Campanien Maestirchten M	INDD P AKK KKK FFRRAAAA FFRRAAAAAAAAAAAAAAAAAAA	AS9 AS9 AS9 AS9 AS9 AS9 EFPP EFPP EFPP EFPP EFPP EFPP EFPP EFP	2(2) 2(3) % % % % % % % % % % % % %	Durighan Ra rear Cherray I dichinopoly Lakhi Range Anthe Sanger Martena Qu Mortsen I, Ma rothem Aq rothem	urin, I/Neak Hills, Assam diranct, 101-94 N, 781-92 E , Sind chisten chisten Grammer Range man diane families Rbagorzana, Rio Noguera Palaresa; Spain diane families diane veen Motagen and St. Palais, Pons); France seduction of Maastrich, Hollande veen Motagen and St. Palais, Pons); France seduction of Maastrich, Hollande consection of Mastrich, Hollande consection of Mastrich, Hollande consection of Mastrich, Holla
Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Nagapa 1959 Neuman 1937 Neuman	Siderolites Siderolites	caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides caldrapoides diffrapoides addrapoides addrapoides ap. praevidal charentensis precelatrapoides sp. diffrapoides sp. precelatrapoides sp. sp. sp. sp. sp. sp. sp. sp. sp. sp	Lamarck Lamarck Lamarck Lamarck Model Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé Docuvilé	44 46 46 47 47 37 31 31 31 31 31 57 57 31 31 31 31 31 31 31 31 31 31 31 31 31	Maestinchtein Maestinchtein Maestinchtein Maestinchtein Maestinchtein Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Campanian Maestinchtein Maes	IND IND PAK KKUDA FESPAAA FFRAAA FFRAAAAAAAAAAAAAAAAAAAAAAAAA	ASP ASP ASP ASP ASP ASP EFP EFP EFP EFP EFP EFP EFP EFP EFP EF	2(2) 2(3) % % % % % % % % % % % % %	Durghan Ré rear Cherray Tichtinopoly, Lakhf Range Ouetta, Balu Pathi Nala, central Assa Maurens (D Nortsech (R rothem Aq, rothem Aq,	urin, I/Neak Hills, Assam diranct, 101-94 N, 781-92 E , Sind chisten chisten Grammer Range man diane families Rbagorzana, Rio Noguera Palaresa; Spain diane families diane veen Motagen and St. Palais, Pons); France seduction of Maastrich, Hollande veen Motagen and St. Palais, Pons); France seduction of Maastrich, Hollande consection of Mastrich, Hollande consection of Mastrich, Hollande consection of Mastrich, Holla

Hofker 1966	p.81; fig.51, 1-7, fig. 52	%	%	%
Hofker 1966	96	92		
Hofker 1966	p.84; fig.53,1-2, fig.95	~	~	~~
	p.84,1g.53,1-2,1g.95	2	20	
Hofker 1966	p.130;figs.85,1;86	%	%	%
Hofker 1966	p.130,131;fig.85,4-7	%	%	%
Hofker 1966	p.133;figs.92,93	%	%	%
Hofker 1966	p.158; fig.85;8	%	26	%
Hofker 1966	p.158;fig.51,4;52	96	44	
Hofker 1966	p.159; figs.96,1;97	~	~	~
Hofker 1966	p.159; figs.96,2;98	20	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	p.159,198.96,2,90	70	20	×**
Hofker 1966	p.171; fig.99	%	%	%
Hofker 1966	p.171; fig.100	96	%	%
Hofker 1966	p.171;fig.100 p.172;figs.101,102	%	96	%
Hofker 1966		%	%	%
Hofker 1966	%	86	%	
Hofker 1966	9 <u>6</u>			
Hofker 1966	p.201; fig.105.1,107	~~~	~	~~~~
HUIKEI 1900	p.201, lig.105.1,107	70	20	200
Hofker 1966	p.215 figs.101.1,102	%	%	×
Hofker 1966	p.215 figs:105.1,2;106,107	%	%	%
Hofker 1966	p.216;fig.112	%	%	%
Hofker 1966	p.275; fig.132	%	%	%
Hofker 1966	p.275;fig.132 p.275;fig.133	%	%	%
Hofker 1966	p.276; fig.135	96	44	
Hofker 1966	p.201;fig.105.1,107	~	~	~~~
Holker 1966	p.201, lig.105.1, 107	70	20	20
Hofker 1966	p.274; figs.124,125	76	76	70 N
Hofker 1966	p.214	%		%
Hofker 1966	p.274; figs.124,125	%	%	%
Hottinger 1966	Fig. 2	Omphalocyclus macropora, Orbitoides media	calcaires gréseux très durs à conglomérats intraformationel:	%
Inan 1996a	Fig. 2 Fig. 1	%	Limestone; Back reef	%
lon 1975	Fig. 1	Orbitoides (media, cf. apiculata, cf. tissoti), Lepidorbitoides (miror, socialis);	%	%
	1 -	Globdruncana gansseri		· · · · · · · · · · · · · · · · · · ·
lon 1975	Fig. 1	Lepidorbitoides socialis, Orbitoides, Siderolites, Omphalocyclus, Abathomphalus mayaroens	94	
Kalantari 1976	Fig. 1	Comphalosustus marcases	marku limaetana	2% Loftusia minor & harrisoni zone
Kalantari 1976	Fig. 1 Fig. 1	Omphalocyclus macroporus	marty limestone	Londaia minor a Natissul 2016
Kalantari 1976	rig.1	%	microcrystalline limestone	Loftusia minor & harrisoni zone
Kalantari 1976 Kureshy 1977	Fig. 1	%	%	Loftusia minor & harrisoni zone
Kureshy 1977	Fig. 1 Fig. 1 Fig. 1	Orbitoides, Omphalocyclus, Sulcoperculina	%	Orbitoides media zone
Kureshy 1977	Fig. 1	Lepidorbitoides, Orbitoides, Omphalocyclus, Sulcoperculina	Carbonate facies	%
Kureshy 1977	Fig. 1	Orbitoides, Lepidorbitoides, Omphalocyclus, Sulcoperculina	hard massive, splintry, light brown in color; Carbonate facies	%
Kureshy 1977	Fig. 1	Omphalocyclus, Orbitoides, Sulcoperculina, Lepidorbitoides	%	Orbitoides media zone
Kureshy 1980	Page 94	Orbitoides, Lepidorbitoides, Omphalocyclus, Sulcoperculina		0140400110000 2010 02
Leoblish 9 Terren 1099	1 Luge 34	onsitotides, Espirationalitatides, ompinatory data, Salobjer danta	%	
Loeblich & Tappan 1988	70	20	20	
Loeblich & Tappan 1988	%	26	76	%
Luperto Sinni 1966	%	%	limestones	%
Luperto Sinni 1968	%	Nummofallotia, Cuneolina, Dictyopsella, Rhapydionina, Rhipidionina	white bedded Rudist limestone; neritic, shallow, temperate-warm	%
Mavrikas et al. 1994	Fig. 1	Orbitoides	bioclastic limestone; plate-forme externe où, par exception,	%
			les influences de la mer ouverte et de la plate-forme protégée se mêlent	
Mavrikas et al. 1994 McGowran 1968	Fig. 1	Sirtina, Pseudedomia, Orbitoides, Lepidorbitoides, Hellenocyclina	limestones with large rudists; plate-forme externe	%
McGowrep 1968	96	Omphalocyclus, Lepidorbitoides	96	<u>«</u>
McGowran 1968		%	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
MCGOWall 1900	20	70	20	
McGowran 1968	%	%	%	*
Meric et al. 1997	%	Loftusia, Orbitoides, Omphalocydus, Hellenocyclina, Lepidorbitoides	%	%
Nagappa 1959	Page 178	Omphalocyclus	%	%
Nagappa 1959	Page 178	%	sandy ferruginous limestone	%
Nagappa 1959	Page 178	Lepidorbitoides	brown impure limestone	%
Nagappa 1959	Page 178 Page 178 Txt-fig. 2	Orbitoides, Omphalocyclus; Globigerina, Guembelina	light-coloured massive or thick-bedded limestones,	maximum thickness 320'+; base not exposed
			becoming sandy toward the top; deposition on the continental shelf	
			in warm, shallow, sometimes sheltered waters of the inner neritic environment	
Negerse 1050	Txt-fig. 2	Omphalocyclus, Orbitoides	shelf deposits in shallow inner neritic environments	~
Nagappa 1959	Txt-IIg. 2	ontpitalocyclus, orbitoldes	alien deposits in statiown her heritic environments	
Nagappa 1959	Txt-fig. 2	Omphalocyclus, Orbitoides	26	×
Nagappa 1959 Neumann 1997	%	Orbitoides; Globotruncana stuarti, Guembelina plummerae	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	%
Neumann 1997	%	%	%	%
Neumann 1997	%	%	96	%
Neumann 1997	%	%	%	%
Neumann 1997	%	%	%	%
Neumann 1997	96	96	96	%
Neumann 1997	96			%
Neumann 1997			1	
Neumann 1997			~	~
Neumann 1997 Neumann 1997	~	20	,	
Neumann 1897	70	70	20	
Neumann 1997	76	%	*	70
Neumann 1997	%	%	%	%
Neumann 1997	%	%	%	%
Neumann 1997	%	%	96	%
Neumann 1997	%	%	%	%
Neumann 1997	%	%	%	%
Neumann 1997	9%	9%	96	
	a/	0/	~~~~	04
Neumann 1997	70	70	70	70
Neumann 1997	76	2	2°	×
Neumann 1997	%	%	%	%
Neumann 1997	%	%	%	%
Neumann 1997	%	%	%	%
Neumann 1997	%	%	%	%
Neumann 1997	96	94.	%	%
Neumann 1997		0 <u>~</u>		ov all a second se
Normann 1007	70	70	70	,
Neumann 1997	70	70	70	20
	1 %	%	%	%
Neumann 1997		96	%	%
Neumann 1997	%	~		
Neumann 1997 Neumann 1997	%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	%	%
Neumann 1997 Neumann 1997 Neumann 1997	96 96 96	96	%	%
Neumann 1997 Neumann 1997 Neumann 1997	96 96 96	96 96 96	% % %	% % Wannier: Praesiderolites
Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997	96 96 96		% % %	% Wannier: Praesiderolites Wannier: Praesiderolites
Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997	96 96 96 96 96		% % % %	Wannier: Praesiderolites
Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997	% % % %			Wannier: Praesiderolites Wannier: Praesiderolites
Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997	96 96 96 96 96 96	56 56 56 56 56	56 76 76 76 76 76	Wannier: Praesiderolites Wannier: Praesiderolites Wannier: Praesiderolites
Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997 Neumann 1997	96 96 96 96 96 96 96 96		% % % % % %	Wannier: Praesiderolites Wannier: Praesiderolites

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Neumann 1997	Siderolites	charentensis	Neumann	31	late Campanian	FRA	EFP		Mirambeau (Charente-Maritime)
Neumann 1997	Siderolites	charentensis	Neumann	31	late Campanian	FRA	EFP	5(2)	Montgouverne (Charente-Maritime)
Neumann 1997 Neumann 1997	Siderolites Siderolites	charentensis charentensis	Neumann Neumann	31	late Campanian	FRA FRA	FFP	5(3) 5(4)	Fort-Maran (Charente-Maritime)
Neumann 1997	Siderolites	charentensis	Neumann	31	late Campanian late Campanian	FRA	EFP	5(5-6,12)	Le Buisson (Dordogne) Coupe Aubeterre (Charente)
Neumann 1997	Siderolites	charentensis	Neumann	31	late Campanian	FRA	EFP	5(7-8)	Bazac (Charente)
Neumann 1997	Siderolites	charentensis	Neumann	32	late Campanian	ESP	EFP	5(9-11)	Mantsech (Espagne)
Neumann 1997	Siderolites	charentensis	Neumann	31	early Maastrichtian	FRA	EFP	5(13)	Maurers (Dordogne), sondage du Bost
Neumann 1997	Siderolites	praevidali	Andreieff & Neumann	31	late Campanian	FRA	EFP	6(1-3)	Le Rendos (Charente-Maritime)
Neumann 1997	Siderolites	praevidali	Andreieff & Neumann	31	late Campanian	FRA	EFP	6(4)	Mirambeau (Charente-Maritime)
Neumann 1997	Siderolites	vidali	Douvillé	31	late Campanian	FRA	EFP	6(5,7)	Le Cailleau (Charente-Maritime)
Neumann 1997	Siderolites	vidali	Douvillé	31	late Campanian	FRA	EFP	6(6)	Montgouverne (Charente-Maritime)
Neumann 1997	Siderolites	vidali	Douvillé	31	late Campanian	FRA	EFP	6(8)	Brie-sous-Archiac (Charente-Maritime)
Neumann 1997	Siderolites	vidali	Douvillé	31	late Campanian	FRA	EFP	6(9)	Beaumont-du-Périgord (Dordogne)
Neumann 1997	Siderolites	vidali	Douvillé	32 31	late Campanian	ESP FRA	EFP	6(10)	Montsech (Espagne)
Neumann 1997 Neumann 1997	Siderolites Siderolites	charentensis charentensis	Neumann	31	late Campanian	FRA	FFP		Le Buisson (Dordogne)
Neumann 1997 Neumann 1997	Siderolites	charentensis	Neumann Neumann	31	late Campanian late Campanian	FRA	FFD	6(12) 6(13-14)	Beaumont-du-Périgord (Dordogne) Meschers (Charente-Maritime)
Neumann 1993	Siderolites	praevidali	Neumainn 96	31	late Campanian	FRA	FFP	0(13-14) %	Acuitaine espertritoriale
Neumann 1993	Siderolites	charentensis	°é	31	late Campanian	FRA	EFP	w.	Aquitaine septentrionale
Neumann 1993	Siderolites	vidali		31	late Campanian	FRA	EFP		Autaine septentionale
Neumann 1993	Siderolites	praevidali	%	32	Campanian	ESP	EFP	%	Rio Noguera Ribacorzana (Montsech)
Neumann 1993	Siderolites	charentensis	%	32	Campanian	ESP	EFP	%	Rio Noguera Ribacorzana (Montsech)
Neumann 1993	Siderolites	vidali	%	32 59	Campanian	ESP	EFP	%	Rio Noguera Ribacorzana (Montsech)
Neumann 1993	Siderolites	vidali	%	59	Campanian	AUT	EFP	%	Silberegg I, Alpes Carriques
Neumann 1993	Siderolites	vidali	%	71	Campanian	SVK	EFP	%	W. Carpathes, Tchécoslovaquie
Neumann 1993	Siderolites	praecalcitrapoides	%	31	early Maastrichtian	FRA	EFP	%	Maurens (Dordogne)
Neumann 1993	Siderolites	vidali	%	31	early Maastrichtian	FRA	EFP	%	Maurens (Dordogne)
Neumann 1993	Siderolites	charentensis	%	31	early Maastrichtian	FRA	EFP	%	Maurens (Dordogne)
Neumann 1993 Neumann 1993	Siderolites Siderolites	vidali aff denticulatus	%	31/32 31/32	Maastrichtian Maastrichtian	FRAJESP	EFP	% %	plate-formes E pyrénéennes
			76	31/32		FRAESP	FFP	76	plate-formes E pyrénéennes
Neumann 1993 Neumann 1993	Siderolites Siderolites	calcitrapoides	76	31/32	Maastrichtian Maastrichtian	ESP	FFP	76	plate-formes E pyrénéennes Montsech
Neumann 1993 Neumann 1993	Siderolites	praecalcitrapoides calcitrapoides	70	32	Maastrichtian	ESP	FFP	76	Norrsech
Neumann 1993	Siderolites	calctrapoides	%	59	Maastrichtian	AUT	EFP	s s s s s s s s s s s s s s s s s s s	Femberger IV, Alpes Carniques
Neumann 1993	Siderolites	calctrapoides	%	71/74	Maastrichtian	SVK/CZE	EFP	- ŵ	remologije nv, Apes Camiques Tchécostavique
Özcan 1993	Siderolites	calctrapoides	Lamarck	38	middle-late Maastrichtian	TUR	EFP	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	rorth-east Kalita region; Arabian Plate
Özcan 1993	Siderolites	calcitrapoides	%	38	middle-late Maastrichtian	TUR	EFP	fiq.3q	rorth-east Kahta region; Arabian Plate
Özcan 1993	Siderolites	denticulatus	%	38	middle-late Maastrichtian	TUR	EFP	fig.3i	rorth-east Kahta region; Arabian Plate
Özcan 1993	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	~ %	rorth-east Kahta region; Arabian Plate
Özcan & Özkan-Altiner 1997	Siderolites	sp.	%	38	Maastrichtian	TUR	EFP	%	1 km SW of Yesilyut village
Özcan & Özkan-Altiner 1997	Siderolites	sp.	%	38	Maastrichtian	TUR	EFP	%	rear Saridegimen village about 10 km NW of Haymana
Özcan & Özkan-Altiner 1997	Siderolites	sp.	%	38	Maastrichtian	TUR	EFP	%	500 m SE of the Kartalkaya Hill
Özcan & Özkan-Altiner 1997	Siderolites	sp.	%	38	Maastrichtian	TUR	EFP	%	SE of Haymana
Özcan & Özkan-Altiner 1999a	Siderolites	calcitrapoides	%	38 38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	Siderolites Siderolites	calctrapoides	%		Maastrichtian Maastrichtian	TUR TUR	EFP	76 96	east of Cide, N-Turkey
		calcitrapoides	%	38	Maastrichtian Maastrichtian	TUR	EFP	% ~	east of Cide, N-Turkey east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	Siderolites Siderolites	calcitrapoides calcitrapoides	76	38 38	Maastrichtian	TUR	EFP	76	east of Citie, N-1 uikey
Özcan & Özkan-Atliner 1999a	Siderolites	caldtrapoides	70	20	Maastrichtian	TUR	FFP	70	east of Cide, N-Furkey
Özcan & Özkan-Attiner 1999a	Siderolites	calcitrapoides	20 96	38 38	Maastrichtian	TUR	EFP	20 92	east of cite, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	denticulatus		38	Maastrichtian	TUR	EFP		east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	east of Cide. N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	denticulatus	%	38 38	Maastrichtian	TUR	EFP	%	cast of Cide. N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	denticulatus	%	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	calcitrapoides	%	38 38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	denticulatus	96	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	denticulatus	%	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP EFP	76	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999a	Siderolites Siderolites	denticulatus calcitrapoides	%	38 38	Maastrichtian Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey east of Cide, N-Turkey
Özcan & Özkan-Attiner 1999a	Siderolites	denticulatus	96	38	Maastrichtian	TUR	EFP		east of Cide, N-1 uncey
Özcan & Özkan-Attiner 1999a	Siderolites	caldtrapoides	94	38	Maastrichtian	TUR	EFP	n n n n n n n n n n n n n n n n n n n	east of Cide, N-Funkey
Özcan & Özkan-Attiner 1999a	Siderolites	denticulatus	%	38	Maastrichtian	TUR	EFP		east of Cite, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	denticulatus	%	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	denticulatus	%	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	calcitrapoides	%	38 38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a	Siderolites	denticulatus	%	38	Maastrichtian	TUR	EFP	%	east of Cide, N-Turkey
Özcan & Özkan-Altiner 1999a Özcan & Özkan-Altiner 1999b	Siderolites Siderolites	caldtrapoides	76	30 20	% Maastrichtian		EFP	%	Haymana region Cide area (NW Black Sea coast)
Özcan & Özkan-Atliner 1999b	Siderolites	calcitrapoides calcitrapoides	70	38 38	Maastrichtian	TUR TUR	FFP	*	Cide area (NW Black Sea coast)
Özcan & Özkan-Attiner 1999b	Siderolites	calcitrapoides	96	38	Maastrichtian	TUR	EFP	70 94	Cide area (NW Black Sea coast)
Özcan & Özkan-Attiner 1999b	Siderolites	calctrapoides	°é	38	Maastrichtian	TUR	EFP		Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Siderolites	calcitrapoides		38 38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Siderolites	denticulatus	%	38 38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Siderolites	denticulatus	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Black Sea coast)
Özcan & Özkan-Altiner 1999b	Siderolites	denticulatus	%	38	Maastrichtian	TUR	EFP	8	Cide area (NW/ Black Sea coast)
Özcan & Özkan-Altiner 1999b	Siderolites	calcitrapoides	%	38	Maastrichtian	TUR	EFP	%	Cide area (NW Plack Sea coast)
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Siderolites	denticulatus calctrapoides	76 ar	38 38	Maastrichtian Maastrichtian	TUR TUR	EFP	%	Cide area (NW Black Sea coast) Cide area (NW Black Sea coast)
			76	20			EFP	76	
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Siderolites Siderolites	denticulatus calcitrapoides	76 97.	38 38	Maastrichtian Maastrichtian	TUR TUR	EFP	76 07.	Cide area (NVV Black Sea coast) Cide area (NVV Black Sea coast)
Özcan & Özkan-Attiner 1999b	Siderolites	denticulatus	70 9%	38	Maastrichtian	TUR	EFP	70 %	Cide area (NVV Black Sea coast) Cide area (NVV Black Sea coast)
Özcan & Özkan-Attiner 1999b	Siderolites	calctrapoides	%	38	Maastrichtian	TUR	EFP	l %	Cide area (NW Black Sea Coast)
						1.000	E11	1 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Özcan & Özkan-Altiner 1999b	Siderolites	denticulatus	%	38	Maastrichtian	IUUR	IEFP .	%	ILIGE AFEA INVV BIACK SEA COAST
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Siderolites Siderolites	denticulatus calctrapoides	% %	38 38 38	Maastrichtian Maastrichtian	TUR TUR	EFP EFP	%	Cide area (NW Black Sea coast) Cide area (NW Black Sea coast)

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Neumann 1997	76			Wannier: Praesiderolites
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Neumann 1997	%	%	%	Wannier: Praesiderolites
Neumann 1997	%	%	<u>%</u>	Wannier. Praesiderolites
Neumann 1997	%	%	%	Wannier. Praesiderolites
Neumann 1997	%	%	%	Wannier: Praesiderolites
Neumann 1997	%	96	%	%
Neumann 1997	%	%	%	%
Neumann 1997	%	96	96	%
Neumann 1997	%	%	%	%
Neumann 1997	%	96	%	%
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	76	70	70	70 a/
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Özcan 1993	70	Orbitoides, Omphalocyclus, Loftusia	rudistid, massive and triable sands	20
Özcan 1993	76	Orbitoides, Omphalocyclus, Lepidorbitoides, Loftusia, Siderolites	rudistid, sandy bioclastic carbonate facies	20
Özcan 1993	70	Orbitoides, Omphalocyclus, Lepidorbitoides, Loftusia, Siderolites	rudistid, sandy bioclastic carbonate facies	20
Özcan 1993	70	Orbitoides, Loftusia	marks and siltstones	70
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Omphalocyclus, Lepidorbitoides Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Hellenocydina	triable sandstone; shallow-water carbonate and clastica	2
Özcan & Özkan-Altiner 1997	Fig. 1		bioclastic horizon, shallow-water carbonate and clastica	*
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Hellenocydina	sandstone horizon; transition between deep-marine shale and marl and turbiditic shale-marl and carbonates	20
Özcan & Özkan-Altiner 1997	Fig. 1	Orbitoides, Lepidorbitoides, Loftusia, Hellenocyclina, Sirtina, Omphalocyclus	nodular, friable limy sandstone and sandy limestone beds	*
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides		26
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocydus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocydus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocydus	96	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocydus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocydus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocydus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	%
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Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999a	Page 115, Fig.3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Hellenocyclina	%	%
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides	%	G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides	%	G. aegyptiaca zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides	%	G. gansseri zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides	%	G. gansseri zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	G. gansseri zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocydus	%	G. gansseri zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	G. gansseri zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	G. gansseri zone
	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus	%	G. gansseri zone
Özcan & Özkan-Altiner 1999b		Orbitoides, Lepidorbitoides, Omphalocydus	8	G. gansseri zone
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Fig. 3			A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus		
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Fig. 3 Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus		A mayanensis zone
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Fig. 3 Fig. 3 Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus Orbitoides, Lepidorbitoides, Omphalocyclus	70 %	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Fig. 3 Fig. 3 Fig. 3 Fig. 3	Orbitoides, Lepidorbitoides, Omphalocydus Orbitoides, Lepidorbitoides, Omphalocydus Orbitoides, Lepidorbitoides, Omphalocydus	1000 1860 1960 1960 1960 1960	A, mayaroensis zone A, mayaroensis zone
Özcan & Özkan-Attiner 1999b Özcan & Özkan-Attiner 1999b Özcan & Özkan-Attiner 1999b Özcan & Özkan-Attiner 1999b Özcan & Özkan-Attiner 1999b	Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3	Ontbicides, Lepidontbicies, Omphalocyclus Ontbicides, Lepidontbicies, Omphalocyclus Ontbicides, Lepidontbicies, Omphalocyclus Ontbicides, Lepidontbicies, Omphalocyclus		A. mayaroensis zone A. mayaroensis zone A. mayaroensis zone
Özcan & Özkan-Attiner 1999b Özcan & Özkan-Attiner 1999b Özcan & Özkan-Attiner 1999b Özcan & Özkan-Attiner 1999b Özcan & Özkan-Attiner 1999b	Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3	Orbitolides, Lepidothioles, Omphalocyclus Orbitolides, Lepidothitoles, Omphalocyclus Orbitolides, Lepidothitoles, Omphalocyclus Orbitolides, Lepidothitoles, Omphalocyclus, Sirtina		A. mayaroensis zone A. mayaroensis zone A. mayaroensis zone
Özcan & Özkan-Atliner 1995 Özcan & Özkan-Atliner 1995	Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3	Orbitolides, Lepidontitoles, Omphalocyclus Orbitolides, Lepidontitoles, Omphalocyclus Orbitolides, Lepidontitoles, Omphalocyclus Orbitolides, Lepidontitoles, Omphalocyclus, Sirtina Orbitolides, Lepidontitoles, Omphalocyclus, Sirtina		A. mayarensis zone A. mayarensis zone A. mayarensis zone A. mayarensis zone
Özcan & Özkan-Atliner 1995b Özcan & Özkan-Atliner 1995b	Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3	Orbitolices, Lepidontitoles, Omphalocyclus Orbitolices, Lepidontitoles, Omphalocyclus Orbitolices, Lepidontitoles, Omphalocyclus Orbitolices, Lepidontitolices, Omphalocyclus, Sirlina Orbitolices, Lepidontitoles, Omphalocyclus, Sirlina Orbitolices, Lepidontitoles, Omphalocyclus, Sirlina		A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone
Özzan & Özkan-Atliner 1998b Özzan & Özkan-Atliner 1998b	Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3	Orbitolices, Lepidorbitoles, Omphalocyclus Orbitolices, Lepidorbitoles, Omphalocyclus Orbitolices, Lepidorbitoles, Omphalocyclus Orbitolices, Lepidorbitoles, Omphalocyclus, Sirlina Orbitolices, Lepidorbitoles, Omphalocyclus, Sirlina		A. mayaroensis zone A. mayaroensis zone A. mayaroensis zone A. mayaroensis zone A. mayaroensis zone A. mayaroensis zone
Özzan & Özkan-Atiner 1995b Özzan & Özkan-Atiner 1995b	Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3	Orbitolices, Lepidontitoles, Omphalocyclus Orbitolices, Lepidontitoles, Omphalocyclus Orbitolices, Lepidontitoles, Omphalocyclus Orbitolices, Lepidontitoles, Omphalocyclus, Sirlina Orbitolices, Lepidontitoles, Omphalocyclus, Sirlina, Clypeortis Orbitolices, Lepidontitoles, Omphalocyclus, Sirlina, Olypeortis		A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone
Özzan & Özkan-Altiner 1995b Özzan & Özkan-Altiner 1995b	Fig. 3 Fig. 3	Orbitolice, Lepidorbitoles, Omphalocyclus Orbitolice, Lepidorbitoles, Omphalocyclus Orbitolice, Lepidorbitoles, Omphalocyclus Orbitolice, Lepidorbitoles, Omphalocyclus, Sirina Orbitolice, Lepidorbitoles, Omphalocyclus, Sirina Orbitolice, Lepidorbitoles, Omphalocyclus, Sirina, Olypeorbis Orbitolice, Lepidorbitoles, Omphalocyclus, Sirina, Olypeorbis Orbitolice, Lepidorbitoles, Omphalocyclus, Sirina, Olypeorbis Orbitolice, Lepidorbitoles, Omphalocyclus, Sirina, Olypeorbis Orbitolice, Lepidorbitoles, Omphalocyclus, Sirina, Olypeorbis		A. mayaroensis zone A. mayaroensis zone
Öxan a Öxtan-Atiner 1995 Öxan a Öxtan-Atiner 1995	Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3 Fig. 3	Orbitolices, Lepidontitoles, Omphalocyclus Orbitolices, Lepidontitoles, Omphalocyclus Orbitolices, Lepidontitoles, Omphalocyclus Orbitolices, Lepidontitoles, Omphalocyclus, Sirlina Orbitolices, Lepidontitoles, Omphalocyclus, Sirlina, Clypeortis Orbitolices, Lepidontitoles, Omphalocyclus, Sirlina, Olypeortis		A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone A. mayardensis zone

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Özcan & Özkan-Altiner 1999b Özcan & Özkan-Altiner 1999b	Siderolites	denticulatus		% 38	Maastrichtian	TUR	EFP		Cide area (NW Black Sea coast)
Özcan & Özkan-Atiner 1999b Özcan & Özkan-Atiner 1999b	Siderolites Siderolites	calctrapoides denticulatus		% 38 % 38	Maastrichtian Maastrichtian		EFP	%	Cide area (NW Black Sea coast) Cide area (NW Black Sea coast)
Özcan & Özkan-Attiner 1999b	Siderolites	calcitrapoides		% 38	Watersulfaitualit		EFP	96	Cite area (WW Black Sea Coast)
Özcan & Özkan-Altiner 1999b	Siderolites	denticulatus		% 38	w.	TUR	FFP		(ide area (NW Black Sea coast)
Özkan-Altiner & Özcan 1999	Siderolites	calcitrapoides		% 38	Maastrichtian		EFP	%	Cide region
Papp 1954	Siderolites	vidali	Douvillé	59	Campanian	AUT	EFP	%	Silberegg SW of Guttaring, Kärnten
Papp 1954	Siderolites	vidali	Douvillé	59	Campanian		EFP		Steinbruch Wietersdorfer Zementfabrik, Pemberger Riegel, oberhalb Bergstation
Papp 1954 Papp 1954	Siderolites Siderolites	?vidali calcitrapoides	Douvillé	59	Campanian Maastrichtian		EFP EFP	%	N. Gehöft Pemberger, am Waldrand Maestricht
Papp 1954 Papp 1954	Siderolites	calcitrapoides		% 59	Maastrichtian		FFP	70	Flysch bei Wien, Gosau bei Grünbach
Papp 1954	Siderolites	calcitrapoides		% 31	Maastrichtian		EFP	96	Prysch ber weet, Gosad ber Grundach Gensac
Papp 1954	Siderolites	calcitrapoides		% 37	Maastrichtian	YUG	EFP	%	Fuska-Gona
Papp 1955b	Siderolites	vidali	Douvillé	59	Campanian	AUT	EFP	%	Unter-Kirchwaldberg, S Guttaring
Papp 1955b	Siderolites	vidali	Douvillé	59	Campanian		EFP	%	Steinbruch Pembergerriegel (II)
Papp 1955b	Siderolites	vidali	Douvillé	59	Campanian		EFP	%	rördlich Gehött Pemberger (III)
Papp 1955b	Siderolites Siderolites	calctrapoides	Lamarck Lamarck	59	Campanian Maastrichtian	AUT	EFP	3(4)	Femberger (IV)
Papp 1955c Papp 1956a	Siderolites	calcitrapoides vidali	Douvillé	59	Campanian	AUT	EFP	0(4)	Gmunden, O vom Traunsee, Graben Flohberg, W-Seite Ober-Österreich
Papp & Küpper 1953b	Siderolites	vidali	Douvillé	59	Campanian		EFP	1(6);3(1,3)	Silbereg, Steinbruch
Papp & Küpper 1953b	Siderolites	calcitrapoides	Lamarck	59	**************************************		EFP	1(7)	Femberger
Papp & Küpper 1953b	Siderolites	vidali	Douvillé	59	Campanian	AUT	EFP	3(2)	Unter-Kirchwaldberg
Pfender 1935	Siderolites	denticulatus	Douvillé	57	Maastrichtian	NLD	EFP	11(1,2)	Fauquemont près Maestricht
Pfender 1935 Pfender 1935	Siderolites Siderolites	vidali vidali	Douvillé Douvillé	32	Maastrichtian	ESP CHE	EFP EFP	11(3-5) 12(1-5)	Espluga, environs d'Aren (province de Barcelone)
Renz 1936	Siderolites	calcitrapoides	Lamarck	58	Maestrichtian		FFP	29(1,2); 31(1,3); 32(3,4); 33(4)	Niesentysch, Pic Chaussy, Canton de Vaud (Suisse) Alfemée am Bielersee
Renz 1936	Siderolites	calctrapoides	Contarok	% 31	late Cretaceous		EFP	23(1,2), 31(1,3), 32(3,4), 33(4)	Frankreich
Renz 1936	Siderolites	calcitrapoides		% 57	late Cretaceous		EFP	%	Holand
Renz 1936	Siderolites	calcitrapoides		% 36	late Cretaceous	GRC	EFP	%	Griechenland, Rhodos
Renz 1936	Siderolites	calctrapoides		% 69	late Cretaceous	ZYP	EFP	%	Cypern
Renz 1936	Calcarina	sp.		% 31	Senonian	FRA	EFP	%	Néaudre bei Grenoble
Sartorio & Venturini 1988	Siderolites	calcitrapoides	Lamarck	34	Maastrichtian	ITA	EFP	Page 125	Termini Imerese, Sidly
Sartorio & Venturini 1988 Sartorio & Venturini 1988	Siderolites Siderolites	cal citrapoides cal citrapoides	Lamarck Lamarck	25	Maastrichtian Maastrichtian	YEM ITA	AFP EFP	Page 127 Page 129	Ras Fartaq, P.D.R. of Yemen Madonna della Croce 2 vell. Abruzzo
Sartorio & Venturini 1988	Siderolites	calctrapoides	Lamarck	34	Maastrichtian		EFP	Page 129	Madulina della oficie 2 Men, Malazzo
Sartorio & Venturini 1988	Siderolites	calcitrapoides	Lamarck	25	Maastrichtian	YEM	AFP	Page 129	Ras Farao, P.D.R. of Yemen
Seiglie & Ayala Castanares 1963	Siderolites	vanbelleni	(van den Bol	ld) 1-	Maastrichtian	CUB	CEP.	*	Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana
Seiglie & Ayala Castanares 1963	Siderolites	skourensis (?)	(Pfender)	4	Campanian (?) to Maastrichtian	CUB	CEP.	*	Cantera Penalver, en el tramo de la Via Monumental entre la Via Blanca y la Carretera Central, Prov. La Habana
Séronie-Vivien 1972	Siderolites	sp.		% 31	Santonian	FRA	EFP	%	Saintes Chateau d'eau
Séronie-Vivien 1972	Siderolites	sp.		% 31	Santonian		EFP	%	Les Charriers
Séronie-Vivien 1972 Séronie-Vivien 1972	Siderolites Siderolites	vidali vidali	Douvillé Douvillé	31	Campanian Campanian	FRA FRA	EFP EFP	76 or	Saint-palais-du-né Route de Saint-Martial
Séronie-Vivien 1972	Siderolites	vidali	Douvillé	31	Maastrichtian	FRA	EFP		Aubetere
Séronie-Vivien 1972	Siderolites	vidali	Douvillé	31	Maastrichtian		EFP		Aubeterre
Séronie-Vivien 1972	Siderolites	vidali		% 31	Maastrichtian		EFP	%	Aubeterre
Séronie-Vivien 1972	Siderolites	vidali	Douvillé	31	Campanian		EFP	%	Aubeterre
Séronie-Vivien 1972	Siderolites	sp.		% 31	Campanian	FRA	EFP	%	Aubeterre
Séronie-Vivien 1972	Siderolites	denticulatus		% 31	Maastrichtian	FRA	EFP	%	Lamerac
Séronie-Vivien 1972 Séronie-Vivien 1972	Siderolites Siderolites	vidali		% 31	Maastrichtian Maastrichtian		EFP EFP	%	Lamerac La Guerie
Séronie-Vivien 1972 Séronie-Vivien 1972	Siderolites	denticulatus		76 31 96 31	Maastrichtian		FFP		La Guerre
Séronie-Vivien 1972	Siderolites	vidali		% 31	Maastrichtian		EFP	%	Derife
Séronie-Vivien 1972	Siderolites	vidali		% 31	Maastrichtian		FFP	%	La maison neuve
Séronie-Vivien 1972	Siderolites	denticulatus		% 31	Maastrichtian	FRA	EFP	%	Le Caillaud
Séronie-Vivien 1972	Siderolites	vidali		% 31	Maastrichtian		EFP	%	Le Caillaud
Séronie-Vivien 1972	Siderolites	vidali		% 31	Campanian		EFP	%	Le Caillaud
Séronie-Vivien 1972 Séronie-Vivien 1972	Siderolites Siderolites	vidali		% 31	Maastrichtian Santonian		EFP	%	Flage des nonnes
Séronie-Vivien 1972	Siderolites	sp. sp.		76 J1 or J4	Campanian	FRA	EFP	76	Fuy le versac Mensiganc
Séronie-Witen 1972	Siderolites	su. Vidali		% 31	Campanian		FFP		Intersigning Internet
Séronie-Vivien 1972	Siderolites	SD.		% 31	Maastrichtian		EFP	96	Noailac
Séronie-Vivien 1972	Siderolites	vidali		% 31	Maastrichtian	FRA	EFP	%	Neuvic
Séronie-Vivien 1972	Siderolites	vidali		% 31	Campanian	FRA	EFP	%	Grande cote
Séronie-Vivien 1972	Siderolites	sp.		% 31	Campanian		EFP	%	Journiac, route du Dognon
Séronie-Vivien 1972	Siderolites	sp.	1	% 31	Maastrichtian	FRA	EFP	%	Route de Beaumont à Saint-Avit
Séronie-Vivien 1972 Sirel 1991	Siderolites Siderolites	sp. heracleae	Arni	70 JT 39	Campanian late Turonian-middle Campanian	FRA	EFP	76	Route de Beaumont à Saint-Avit Vepeskövitepe, 6 km east of Eregli
Sirel 1991	Siderolites	calcitrapoides	Lamarck	38	late Maastrichtian	TUR	FFP	s s	repestor tepe, o till east of cregin Cide region
Sirel 1996	Siderolites	calcitrapoides		% 38	Maastrichtian		EFP	%	Haymana basin, S of Ankara
Sirel 1996	Siderolites	calcitrapoides		% 38	Maastrichtian		EFP	%	Dündarli area, SW of Kayseri, Central Turkey
Sirel 1996	Siderolites	calcitrapoides		% 38	Maastrichtian	TUR	EFP	%	Oölköytown, S of Ordu, Northern Turkey
Sirel 1996	Siderolites	calcitrapoides		% 38	Maastrichtian	TUR	EFP	2	Feyamil hill, 8 km north of Dündarli town, SW of Kayseri
Sirel 1996	Siderolites Siderolites	cal citrapoides vidali	Douvillé	76 35	Maastrichtian late Campanian		EFP	%	Caldag anticine, Ahirlikuyu village, 4 km west of Haymana town, S of Ankarz SE of Aubeterre
van Gorsel 1973a van Gorsel 1973b	Siderolites	vidali	Douvillé	31	late Campanian		EFP	1(1) %	SE of Aubeterre
van Gorsel 1973b	Siderolites	vidali	Douvillé	31	%	FRA	EFP	3(1)	Skin south of Chaleis
Visser 1951	Siderolites	calcitrapoides		% 33	late Cretaceous	DEU	EFP	%	Oberbayerische Alpen
Visser 1951	Siderolites	calcitrapoides		% 34	late Cretaceous	CHE	EFP	%	Helvetian Nappes, Bielersee, Switzerland
Visser 1951	Siderolites	calcitrapoides	1	% 35	late Cretaceous		EFP	%	Appenines, Italy
Visser 1951	Siderolites	calcitrapoides		% 36	late Cretaceous	GRC	EFP	%	Leukas, Greece
Visser 1951 Visser 1951	Siderolites Siderolites	calcitrapoides calcitrapoides	Lamarck	% 57	Maastrichtian Maastrichtian	NLD NLD	EFP EFP	% 7(16)	South-Limburg, Holland Burgerwacht-quarry, St. Pietersberg
Visser 1951 Visser 1951	Siderolites	calctrapoides	Lamarck	5/	Maastrichtian	NLD	EFP	10(4)	Burgerwacht-quarry, st. Pietersberg Burgerwacht-guarry, St. Pietersberg
Visser 1951	Siderolites	calcitrapoides	Lamarck	57	Maastrichtian	NLD	EFP	10(4)	purgerwacht-quarry, st. Pietersberg (Geufvalley near Geuihem on the south-side of the parth Valkenburg-Geuihem on the turning to Berg
Wannier 1980	Siderolites	denticulatus	Douvillé	31	Maastrichtian	FRA	EFP	1(9); 4(1-2)	Vervaries near obcurrent obcurrent sour reade of the part variendug-securrent of the turning to berg
Wannier 1980	Siderolites	calcitrapoides	Lamarck	57	Maastrichtian	NLD	EFP	4(3-7)	carrière È NCI, Maastricht
Mannier 1983	Siderolites	cataluniensis	n.sp.	32	Maastrichtian	ESP	EFP	4(9,11,12); 6(9-13)	Castillo, près de Talam, Tremp, Catalogne
Wannier 1983	Siderolites	calcitrapoides	Lamarck	57	Maastrichtian		EFP	5(1-7), 7(1-6,9)	ENCI, Maastricht
Wannier 1983	Siderolites	denticulatus	Douvillé	31	Maastrichtian	FRA	EFP	5(8-14), 7(7,8,10)	St. Marcet
Weiss 1993 Wen 1987	Siderolites Siderolites	calcitrapoides calcitrapoides	+	76 46 96 46	early late Maastrichtian Maastrichtian	P AK P AK	ASP	% *	Murrey Brewery Gorge section, Sulaiman Range, Northern Pakistan Sind. Baluchistan
Wen 1987	Siderolites	calctrapoides		× 40 % 45	Maastrichtian Maastrichtian	IND	ASP	70	Sind, Baluchistan Aasi and Jaintia hills of the Shillong Plateau
Willems et al. 1996	Siderolites	calcitrapoides	1	% 48	late Maastrichtian	CHN	ASP	%	Priasi and Jaintia hills of the Shillong Plateau Tingri area, Tibet
Zambetakis-Lekkas 1988	Siderolites	calctrapoides	1	% 36	late Campanian-early Maastrichtian	GRC	EFP	%	Trigrates, noet
							-	-	

Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	96	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeorbis, Hellenocyclina	96	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Clypeortiis, Hellenocyclina	%	A. mayaroensis zone
Özcan & Özkan-Altiner 1999b	Fig. 3 Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Hellenocyclina	96	%
Özcan & Özkan-Altiner 1999b	Fig. 3	Orbitoides, Lepidorbitoides, Omphalocyclus, Sirtina, Hellenocydina	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- I
Özkan-Altiner & Özcan 1999	Fig.1	Globotruncana aegyptiaca		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Papp 1954	96	Pseudorbitoides. Orbitoides		~~~~
Papp 1954	, io	Orbitoides, Pseudorbitoides		~~~
Papp 1054	~	Lepidorbitoides	<i>2</i>	<i>2</i>
Papp 1954	20 07		20 27	~ ~
Papp 1954	70	Lepidorbitoides	70	20
Papp 1954	%	Lepidorbitoides	26	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Papp 1954	%	Lepidorbitoides	26	
Papp 1954	%	Lepidorbitoides	%	%
Papp 1955b	Fig. 1 Fig. 1	Orbitoides tissoti, P seudorbitoides longi spirali s	%	%
Papp 1955b	Fig. 1	Orbitoides (tissoti, media), Pseudorbitoides trechmanni, Lepidorbitoides minima	grobsandig bis feinkörnige Konglomerate mit kalkigem Bindemittel	%
Papp 1955b	Fig. 1	Orbitoides media, Lepidorbitoides minima	%	%
Papp 1955b	Fig. 1	Orbitoides (tissoti, media, jaegeri), Lepidorbitoides bisambergensis	%	%
Papp 1955c	%	%	Orbitoidenkalke	%
Papp 1956a	%	Orbitoides tissati, "Pseudorbitoides"	grober Sandstein	%
Papp & Küpper 1953b	%	%	%	%
Papp & Küpper 1953b	%	96	%	%
Papp & Küpper 1953b	%		%	%
Pfender 1935	%	%	%	%
Pfender 1935	%	%	%	%
Pfender 1935	%	%	%	%
Renz 1936	Renz 1936: p.545	%	%	Syn.: Calcarina calcitrapoides
Renz 1936	%	%	96	%
Renz 1936	%	%	96	%
Renz 1936	%	%	%	· · · · · · · · · · · · · · · · · · ·
Renz 1936		%	%	- I
Renz 1936		9.		- I
Sartorio & Venturini 1988		Orbitoides	04	
Sartorio & Venturini 1988	- ~ ~	Lepidorbitoides, Orbitoides, Pseudedomia		,^* %
Sartorio & Venturini 1988	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Contraction of the second of t	/** */	~
Sartorio & Venturini 1988	~	20 6/	100 04	NO N
Sartorio & Venturini 1988 Sartorio & Venturini 1988	20	% Orbitoides, Lepidorbitoides	76	70 W
Salutio & Ventuini 1900	76	Orbitolites, Lepidolatolites Omphalocyclus, Asterorbis, Vaughanina, Sulcoperculina	Calcirudita, delezhable, arcillosa, color gris claro	<u>~</u>
Seiglie & Ayala Castanares 1963	Page 14			
Seiglie & Ayala Castanares 1963	Page 14	Omphalocyclus, Asterorbis, Vaughanina, Sulcoperculina	Calcirudita, deleznable, arcillosa, color gris claro	*
Séronie-Vivien 1972 Séronie-Vivien 1972	Page 37	Nummofallotia	calcaire gris beige marneux, d'aspect finement gréseux	2 2
	Séronie-Vivien 1972: p.38	Dictyopsella, Nummofallotia	Calcaire beige blanchâtre, avec silex	×
Séronie-Vivien 1972	Séronie-Vivien 1972: p.48	Dictyopsella, Nummofallotia	Calcaire gris blanchâtre, marneux	
Séronie-Vivien 1972	Séronie-Vivien 1972: p.49	Dictyopsella, Nummofallotia	Calcaire gris blanchâtre	
Séronie-Vivien 1972	Séronie-Vivien 1972: p.54	Dictyopsella, Nummofallotia	Calcaire tuffacé beige jaunâtre	%
Séronie-Vivien 1972	Séronie-Vivien 1972: p.54	Dictyopsella, Nummofallotia, Orbitoides	Calcaire mameux, gris blanchâtre, glauconieux	%
Séronie-Vivien 1972	Séronie-Vivien 1972: p.54	Orbitoides	Calcaire tuffacé à Östracées, calcaire mameux	%
Séronie-Vivien 1972	Séronie-Vivien 1972: p.54	Dictyopsella	Calcaire grisâtre marneux, avec lits de silex	%
Séronie-Vivien 1972	Séronie-Vivien 1972: p.54	Dictyopsella	Calcaire grisâtre marneux, avec lits de silex	%
Séronie-Vivien 1972	Séronie-Vivien 1972: p.55	Dictyopsella, Nummofallotia, Orbitoides	Calcaire jaune, très friable	%
Séronie-Vivien 1972	Séronie-Vivien 1972: p.55	Dictyopsella, Nummofallotia, Orbitoides	Calcaire jaune, très friable	%
Séronie-Vivien 1972	Séronie-Vivien 1972: p.56	Nummofallotia, Orbitoides	Mames légèrement glauconieuses	%
Séronie-Vivien 1972	Séronie-Vivien 1972: p.57	Nummofallotia, Orbitoides	Calcaire mameux blanc jaunâtre	%
Séronie-Vivien 1972			Outputs a second time from the	%
Joor Office VIVICIT 1972	Seronie-Vivien 1972; p.57	Nummofallotia, Orbitoides		
Seronie-Vivien 1972 Séronie-Vivien 1972	Séronie-Vivien 1972: p.57 Séronie-Vivien 1972: p.58	Nummofallotia, Orbitoides Dictycopsella, Nummofallotia, Orbitoides	Calcaire mameux blanc jaunâtre Marne calcaire iaune blanchâtre	%
	Séronie-Vivien 1972: p.58	Dictyopsella, Nummofallotia, Orbitoides		%
Séronie-Vivien 1972 Séronie-Vivien 1972	Séronie-Vivien 1972: p.58 Séronie-Vivien 1972: p.69	Dictyopsella, Nummofallotia, Orbitoides Nummofallotia, Orbitoides		% %
Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972	Séronie-Vivien 1972: p.58 Séronie-Vivien 1972: p.69 Séronie-Vivien 1972: p.69	Dictyopsella, Nummofallotia, Orbitoides Nummofallotia, Orbitoides Nummofallotia, Orbitoides	Marne calcaire jaune blanchâtre % %	
Séronie-Wiven 1972 Séronie-Wiven 1972 Séronie-Wiven 1972 Séronie-Wiven 1972	Séronie-Wvien 1972: p.58 Séronie-Wvien 1972: p.69 Séronie-Wvien 1972: p.69 Séronie-Wvien 1972: p.69	Dictyopeella, Nurmotaliotia, Orbitoides Nurmotaliotia, Orbitoides Nurmotaliotia, Orbitoides Dictyopeella	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques silex	
Séronie-Wvien 1972 Séronie-Wvien 1972 Séronie-Wvien 1972 Séronie-Wvien 1972 Séronie-Wvien 1972	Séronie-Wiven 1972: p.58 Séronie-Wiven 1972: p.69 Séronie-Wiven 1972: p.69 Séronie-Wiven 1972: p.69 Séronie-Wiven 1972: p.72	Didyopsella, Nummotallula, Ortitoides Nummotalloila, Ortotoides Nummotalloid, Ortotoides Didyopsella Didyopsella, Nummotalloita, Ortotoides	Marne calcaire jaune blanchâtre % % Calcaire blanchâtre en bancs avec quelques alex Calcaire tuffacé jaune dair	
Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972	Séronie-Wvien 1972: p.58 Séronie-Wvien 1972: p.69 Séronie-Wvien 1972: p.69 Séronie-Wvien 1972: p.69 Séronie-Wvien 1972: p.79 Séronie-Wvien 1972: p.79	Dictyopeale, Nummotalida, Orbitoides Nummotaliotia, Orbitoides Oldyopeale, Nummotaliotia, Orbitoides Dictyopeale, Nummotaliotia, Orbitoides Nummotaliotia	Marne calcaire jaune blanchâtre % % Calcaire blanchâtre en bancs avec quelques silex Calcaire intefacé jaune dair Calcaire intefuex marneux, finement gréseux, glauconieux et marnes sableuses glauconieuses	
Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972 Séronie-Vivien 1972	Séronie-Wien 1972: p.58 Séronie-Wien 1972: p.69 Séronie-Wien 1972: p.69 Séronie-Wien 1972: p.69 Séronie-Wien 1972: p.72 Séronie-Wien 1972: p.73 Séronie-Wien 1972: p.81	Didyopeala, Numnotalida, Orbitoides Nurmofuldio, Orbitoides Didyopeala Didyopeala, Numnofalidia, Orbitoides Nurmotaliotia Nurmotaliotia %	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques allex Calcaire tuftscé jaune dair Calcaire inoduleux mameux, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire menuex á silexaltement avec des riveaux ollus tendres	
Séronie-Wwien 1972 Séronie-Wwien 1972 Séronie-Wwien 1972 Séronie-Wwien 1972 Séronie-Wwien 1972 Séronie-Wwien 1972 Séronie-Wwien 1972	Séronie-Wien 1972 p.58 Séronie-Wien 1972 p.69 Séronie-Wien 1972 p.69 Séronie-Wien 1972 p.69 Séronie-Wien 1972 p.72 Séronie-Wien 1972 p.73 Séronie-Wien 1972 p.81 Séronie-Wien 1972 p.91	Didyopsela, Numnotellida, Orbitoides Nummotalistia, Orbitoides Didyopsela, Numnotellidis, Orbitoides Didyopsela, Numnotellidis, Orbitoides Numnotellidis Numnotellia	Marne calcaire jaune blanchâtre % % Calcaire blanchâtre en bancs avec quelques allex Calcaire intrácé jaune dair Calcaire intrácé jaune dair Calcaire intráleux mameux, finement gréseux, glauconieux et mames sableuses glaucorieuses Calcaire intrálicue à blocates: socieules adjuectorie	
Séronie-Weien 1972 Séronie-Weien 1972 Séronie-Weien 1972 Séronie-Weien 1972 Séronie-Weien 1972 Séronie-Weien 1972 Séronie-Weien 1972 Séronie-Weien 1972	Séronie-Wvien 1972: p.58 Séronie-Wvien 1972: p.69 Séronie-Wvien 1972: p.69 Séronie-Wvien 1972: p.69 Séronie-Wvien 1972: p.79 Séronie-Wvien 1972: p.79 Séronie-Wvien 1972: p.81 Séronie-Wvien 1972: p.91 Séronie-Wvien 1972: p.93	Didyopeala, Numnotalida, Orbitoides Nurmodialida, Orbitoides Didyopeala Didyopeala, Numnotalidia, Orbitoides Nurmotaliotia % Nurmotaliotia %	Marne calcaire jaune blanchâtre % Calcaire blanchâtre en bancs avec quelques alex Calcaire tuffacé jaune clair Calcaire induleux maneux, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire meux á silex alternant avec des riveaux plus tendres Calcaire michtique à locdastes, spicules, glaucorrie Calcaire michtique à locdastes, spicules, glaucorrie	
Séronie-Vvien 1972 Séronie-Vvien 1972 Séronie-Vvien 1972 Séronie-Vvien 1972 Séronie-Vvien 1972 Séronie-Vvien 1972 Séronie-Vvien 1972 Séronie-Vvien 1972 Séronie-Vvien 1972	Séronie-Widen 1972 p.58 Séronie-Widen 1972 p.69 Séronie-Widen 1972 p.69 Séronie-Widen 1972 p.69 Séronie-Widen 1972 p.72 Séronie-Widen 1972 p.79 Séronie-Widen 1972 p.81 Séronie-Widen 1972 p.93 Séronie-Widen 1972 p.93 Séronie-Widen 1972 p.94	Dictyopeste, Nummotellotta, Orbitoides Nummotaliotta, Orbitoides Dictyopeste, Nummotellotta, Orbitoides Dictyopeste, Nummotellotta, Orbitoides Nummotaliotta % Nummotaliotta Orbitoides Dictyopeste, Nummotellotta, Orbitoides	Marne calcaire jaune blanchâtre % Calcaire blanchâtre en bancs avec quelques silex Calcaire interfacé jaune dair Calcaire interfaulex marneux, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire interfauex historitares, spicules, glauconieu Calcaire interfaue, blanchates, spicules, glauconie Calcaire interfaue, blanchates, spicules, glauconie Calcaire interfaue, blanchates, spicules, glauconie Calcaire interfauex, blanc, life, niveaux de silex	% %
Séronie-Viden 1972 Séronie-Viden 1972	Séronie-Wien 1972, p.58 Séronie-Wien 1972, p.69 Séronie-Wien 1972, p.69 Séronie-Wien 1972, p.79 Séronie-Wien 1972, p.79 Séronie-Wien 1972, p.79 Séronie-Wien 1972, p.81 Séronie-Wien 1972, p.93 Séronie-Wien 1972, p.93 Séronie-Wien 1972, p.93	Didyopeala, Numnotalida, Orbitoides Nurmodialida, Orbitoides Didyopeala Didyopeala, Numnotalidia, Orbitoides Nurmotaliotia % Nurmotaliotia %	Marne calcaire jaune blanchâtre % Calcaire blanchâtre en bancs avec quelques alex Calcaire turfacé jaune clair Calcaire noulieux mareux, încement gréseux; glauconieux et marnes sableuses glauconieuses Calcaire menuex, silex alternant avec des riveaux plus tendres Calcaire menuex, silex, alternant avec des riveaux plus tendres Calcaire inductive à foldades, spicules, glauconie Calcaire inductaire, pletique, glauconieux Calcaire inductaire, pletique, glauconieux	
Séronie-Viven 1972 Séronie-Viven 1972	Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.78 Séroire-Wien 1972 p.72 Séroire-Wien 1972 p.78 Séroire-Wien 1972 p.91 Séroire-Wien 1972 p.93 Séroire-Wien 1972 p.93 Séroire-Wien 1972 p.910 Séroire-Wien 1972 p.910	Dictyopeste, Nummotellotta, Orbitoides Nummotaliotta, Orbitoides Dictyopeste, Nummotellotta, Orbitoides Dictyopeste, Nummotellotta, Orbitoides Nummotaliotta % Nummotaliotta Orbitoides Dictyopeste, Nummotellotta, Orbitoides	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques silex Calcaire inotalex: marneux, sinem ent gréseux, glauconieux et marnes sableuses glauconieuses Calcaire inotalex: marneux, finem ent gréseux, glauconieux et marnes sableuses glauconieuses Calcaire initrique à blocdates, spicules, glauconie Calcaire blocd, grav, glauc, Calcaire blocdastique, gneveux, de silex Calcaire blocdastique, gneveux, gréseux	% %
Séronie-Viden 1972 Séronie-Viden 1972	Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.72 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.91 Séroire-Wien 1972 p.93 Séroire-Wien 1972 p.93 Séroire-Wien 1972 p.94 Séroire-Wien 1972 p.106 Séroire-Wien 1972 p.106	Dictyopeste, Nummotellotta, Orbitoides Nummotaliotta, Orbitoides Dictyopeste, Nummotellotta, Orbitoides Dictyopeste, Nummotellotta, Orbitoides Nummotaliotta % Nummotaliotta Orbitoides Dictyopeste, Nummotellotta, Orbitoides	Marne calcaire jaune blanchätre % Calcaire blanchätre en bancs avec quelques silex Calcaire tottacé jaune dair Calcaire notaeux, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire notaeux des rates spicules, glauconieux et marnes sableuses glauconieuses Calcaire induex, maneux, silex, alternart avec des riveaux, plus tendres Calcaire induex, and annue spicules, glauconieux Calcaire induex, tide, not et	
Séronie-Viven 1972 Séronie-Viven 1972	Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.78 Séroire-Wien 1972 p.72 Séroire-Wien 1972 p.78 Séroire-Wien 1972 p.91 Séroire-Wien 1972 p.93 Séroire-Wien 1972 p.93 Séroire-Wien 1972 p.910 Séroire-Wien 1972 p.910	Dictyopesle, Numnotelliota, Orbitoides Nummotalistica, Orbitoides Dictyopesle, Numnofaliotia, Orbitoides Nummotalistia Orbitoides Nummotalistia Orbitoides Dictyopesle, Numnofaliotia, Orbitoides	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques silex Calcaire inotalex: marneux, sinem ent gréseux, glauconieux et marnes sableuses glauconieuses Calcaire inotalex: marneux, finem ent gréseux, glauconieux et marnes sableuses glauconieuses Calcaire initrique à blocdates, spicules, glauconie Calcaire blocd, grav, glauc, Calcaire blocdastique, gneveux, de silex Calcaire blocdastique, gneveux, gréseux	% % % % % % % % % % % % % % % % % % %
Séronie-Viven 1972 Séronie-Viven 1972	Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.72 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.93 Séroire-Wien 1972 p.93 Séroire-Wien 1972 p.105 Séroire-Wien 1972 p.105 Séroire-Wien 1972 p.124	Dictyopesle, Nummotellufa, Orbitoides Nummotaliota, Orbitoides Nummotaliota, Orbitoides Dictyopesle, Nummotellufa, Orbitoides Nummotellota Nummotellota S Nummotellota S Nummotellota S Nummotellota S S S S S S S S S S S S S S S S S S S	Marne calcaire jaune blanchätre % Calcaire blanchätre en bancs avec quelques silex Calcaire tuffacé jaune dair Calcaire induex.marneux, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire induex.marneux, gineuen glauconieux et marnes sableuses glauconieuses Calcaire induex.marneux, gineuen glauconieux Calcaire biodi, gan, glauc, Calcaire biodi, gan, glauc, Calcaire biodiastique, ganevalue, glauconieux Calcaire biodiastique, ganevaluex, gréseux Calcaire biodiastique, ganevaluex, gréseux Calcaire biodiastique, ganevaluex, gréseux	% % % % % % % % % % % % % % % % % %
Séronie-Viden 1972 Séronie-Viden 1972 Síref 1981	Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.78 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.78 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.713 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714	Didyopeale, Nummotellotia, Orbitoides Nummotellotia, Orbitoides Didyopeale Didyopeale, Nummotellotia, Orbitoides Nummotellotia Nummotellotia Nummotellotia Orbitoides Nummotellotia S Sirtina, Omphalocxydus, Helenocydina, Legidottides, Navarella	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques silex Calcaire indulex:n maneux, sinem ent gréseux, glauconieux et marnes sableuses glauconieuses Calcaire indulex:n maneux, sinem ent gréseux, glauconieu Calcaire indulex:n maneux, glauconieu Calcaire bioda, grav, glauc. Calcaire biodastique, glaveux de silex Calcaire biodastique, geletique, glauconieux Calcaire biodastique, grevelex Calcaire biodastique, graveles Calcaire biodastique, graveles Galcaire biodastique, graveles Galcaire biodastique, graveles Galcaire biodastique, graveles Galcaire biodastique, graveles	% %
Séronie-Viven 1972 Séronie-Viven 1972 Sírel 1981 Sírel 1986	Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.72 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.712 Séroire-Wien 1972 p.712 Séroire-Wien 1972 p.712 Séroire-Wien 1972 p.7124 Séroire-Wien 1972 p.7124	Dictyopeale, Nummotellula, Orbitoides Nummotalitota, Orbitoides Nummotaliota, Orbitoides Dictyopeale, Nummotellula, Orbitoides Nummotaliota Nummotaliota Nummotaliota Nummotaliota Nummotaliota S S S S S S S S S S S S S S S S S S S	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques silex Calcaire tuffacé jaune dair Calcaire tuffacé jaune dair Calcaire induex.marneux, sinement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire induex.marneux, silex alternart avec des riveaux.plus tendres Calcaire induex.marneux, glauce. Calcaire biod., garv., glauc. Calcaire biod.astigue, garvelaux, gréseux. Calcaire induestigue, garvelaux, gréseux. Calcaire induestigue, garvelaux, gréseux. Calcaire biodastigue, garvelaux, gréseux. Calcaire biodastigue, a gravelles % lindt grav.limestone. Calcaire biodastigue, a gravelles % lindt grav.limestone. % lindt grav.limestone. % % % % % % % % % % % % % % % % % % %	% % % % % % % % % % % % % % % % %
Séronie-Viden 1972 Séronie-Viden 1972 Sirel 1991 Sirel 1996 Sirel 1996	Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.72 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Síref 1996: fig.1	Dictyopeale, Nummotellotia, Orbitoides Nurmedialioti, Orbitoides Dictyopeale Dictyopeale, Nurmofellotia, Orbitoides Nurmotellotia Nurmotellotia Nurmotellotia S Nurmotellotia S Sitria, Omphalocxydus, Helenocxydina, Chtoides, Lattitetina Lofusia, Lattitetina, Helenocxydina, Orbitoides, Lattitetina	Marne calcaire jaune blanchätre % % % Calcaire blanchätre en bancs avec quelques silex Calcaire induktive fan bancs avec quelques silex Calcaire induktive, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire induktive, hinement gréseux, glauconieu Calcaire induktive, hinement gréseux, glauconieu Calcaire induktive, hinement gréseux, glauconie Calcaire induktive, glauconie Calcaire induktive, glauconie Calcaire biocastique, grevelex Calcaire biocastique, grevelex Calcaire biocastique, greveles ibiot grav linestone, and derk red sitstone, tuffi Intercaledon Sandy linestone, Mari, angliaceous linestone	% %
Séronie-Viden 1972 Séronie-Viden 1972 Sírel 1981 Sírel 1986 Sírel 1986	Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.72 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.71 Séroire-Wien 1972 p.712 Séroire-Wien 1972 p.7124 Séroire-Wien 1972 p.7124 Séroire-Wien 1972 p.7124 Séroire-Wien 1972 p.7124 Síreir 1996: fg.1 Sirei 1996: fg.1	Dictyopeale, Nummotellula, Orbitoides Nummotaliotia, Orbitoides Nummotaliotia, Orbitoides Dictyopeale, Nummotellula, Orbitoides Nummotaliotia Nummotaliotia Nummotellotia Nummotellotia Nummotellotia S S S S S S S S S S S S S S S S S S S	Marne calcaire jaune blanchätre % % % Calcaire blanchätre en bancs avec quelques silex Calcaire tuffacé jaune dair Calcaire notauex, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire induex, maneux, a lisk-alternart avec des riveaux-plus tendres Calcaire induex, tainer, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire induex, maneux, a lisk-alternart avec des riveaux-plus tendres Calcaire induex, tainer, finement gréseux, glauconieux Calcaire induex, tainer, finement gréseux, glauconieux Calcaire induex, tainer, glauc, glauconieux Calcaire biodastique, preview, glauconieux Calcaire biodastique, glauconieux Calcaire biodastique, gavelles % lipht grav/limestone, creen and derk red sitstone, tuff infercolation Sanddone, gardy limestone, grangliaeouus limestone Sanddy limestone, Mari, argiliaeouus limestone limestones	% %
Séronie-Viden 1972 Séronie-Viden 1972 Sirel 1991 Sirel 1996 Sirel 1996 Sirel 1996	Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.72 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.713 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Síref 1996: fg.1	Dictyopeale, Nummotellotia, Orbitoides Nurmofaltolia, Orbitoides Dictyopeale Dictyopeale, Nurmofallotia, Orbitoides Dictyopeale, Nurmofallotia, Orbitoides Nurmofallotia Nurmofallotia Nurmofallotia S Sittina, Omphalocydus, Hellenocydina, Orbitoides, Lafffetina Loftuaja, Lafffetina, Hellenocydina, Orbitoides Dictyopeale, Lafffetina, Hellenocyclina, Orbitoides, Lafffetina Omphalocydus, Jetlenocyclina, Orbitoides	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques silex Calcaire indulex: marneux, sinem ert gréseux, glauconieux et marnes sableuses glauconieuses Calcaire indulex: marneux, finem ert gréseux, glauconieux et marnes sableuses glauconieuses Calcaire indulex: marneux, gineu: Calcaire indulex: marneux, glaucorieux Calcaire biodastique, gneuencieux Calcaire biodastique, gneuencieux Calcaire biodastique, greveleux, gréseux Calcaire biodastique, gravelles 5% Ibith grav linestone, green and derk red sitstone, tuffi intercelation Sandy linestone, Mari, agillaceous line stone linestone, shallow weter	% % % % % % %
Séronie-Viden 1972 Sírel 1986 Sirel 1986 Sirel 1986 Sirel 1986 Sirel 1986	Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.72 Séroire-Wien 1972 p.79 Séroire-Wien 1972 p.79 Séroire-Wien 1972 p.79 Séroire-Wien 1972 p.70 Séroire-Wien 1972 p.710 Séroire-Wien 1972 p.710 Séroire-Wien 1972 p.710 Séroire-Wien 1972 p.710 Séroire-Wien 1972 p.7124 Séroire-Wien 1972 p.7124	Dickyopeale, Nummotellala, Orbitoides Nummotslatoita, Orbitoides Nummotslatoita, Orbitoides Dickyopeale, Nummotellalais, Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Dickyopeale, Nummotellatoita, Orbitoides Nummotslatoita Sis Sirtia, Omphalocxydus, Helenocxina, Orbitoides, Orbitoides, Navarella Lotudata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides Lotusata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Siftia	Marne calcaire jaune blanchätre % % % Calcaire blanchätre en bancs avec quelques silex Calcaire tuffacé jaune dair Calcaire notauex, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire induex, maneux, a lisk-alternart avec des riveaux-plus tendres Calcaire induex, tainer, finement gréseux, glauconieux et marnes sableuses glauconieuses Calcaire induex, maneux, a lisk-alternart avec des riveaux-plus tendres Calcaire induex, tainer, finement gréseux, glauconieux Calcaire induex, tainer, finement gréseux, glauconieux Calcaire induex, tainer, glauc, glauconieux Calcaire biodastique, preview, glauconieux Calcaire biodastique, glauconieux Calcaire biodastique, gavelles % lipht grav/limestone, creen and derk red sitstone, tuff infercolation Sanddone, gardy limestone, grangliaeouus limestone Sanddy limestone, Mari, argiliaeouus limestone limestones	% %
Séronie-Viden 1972 Séronie-Viden 1972 Sirel 1981 Sirel 1986 Sirel 1986 Sirel 1986 Sirel 1986 Sirel 1986	Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.72 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Siref 1998: fg.1	Dictyopeale, Nummotellotia, Orbitoides Nurmofaltolia, Orbitoides Dictyopeale Dictyopeale, Nurmofallotia, Orbitoides Dictyopeale, Nurmofallotia, Orbitoides Nurmofallotia Nurmofallotia Nurmofallotia S Sittina, Omphalocydus, Hellenocydina, Orbitoides, Lafffetina Loftuaja, Lafffetina, Hellenocydina, Orbitoides Dictyopeale, Lafffetina, Hellenocyclina, Orbitoides, Lafffetina Omphalocydus, Jetlenocyclina, Orbitoides	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques silex Calcaire indulex: marneux, sinem ert gréseux, glauconieux et marnes sableuses glauconieuses Calcaire indulex: marneux, finem ert gréseux, glauconieux et marnes sableuses glauconieuses Calcaire indulex: marneux, gineu: Calcaire indulex: marneux, glaucorieux Calcaire biodastique, gneuencieux Calcaire biodastique, gneuencieux Calcaire biodastique, greveleux, gréseux Calcaire biodastique, gravelles 5% Ibith grav linestone, green and derk red sitstone, tuffi intercelation Sandy linestone, Mari, agillaceous line stone linestone, shallow weter	% %
Séronie-Viden 1972 Simel 1986 Simel 1986 Simel 1986 Simel 1986 Simel 1973b	Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.78 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.71 Sérorie-Wien 1972 p.71	Dickyopeale, Nummotellala, Orbitoides Nummotslatoita, Orbitoides Nummotslatoita, Orbitoides Dickyopeale, Nummotellalais, Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Dickyopeale, Nummotellatoita, Orbitoides Nummotslatoita Sis Sirtia, Omphalocxydus, Helenocxina, Orbitoides, Orbitoides, Navarella Lotudata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides Lotusata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Siftia	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques silex Calcaire indulex: marneux, sinem ert gréseux, glauconieux et marnes sableuses glauconieuses Calcaire indulex: marneux, finem ert gréseux, glauconieux et marnes sableuses glauconieuses Calcaire indulex: marneux, gineu: Calcaire indulex: marneux, glaucorieux Calcaire biodastique, gneuencieux Calcaire biodastique, gneuencieux Calcaire biodastique, greveleux, gréseux Calcaire biodastique, gravelles 5% Ibith grav linestone, green and derk red sitstone, tuffi intercelation Sandy linestone, Mari, agillaceous line stone linestone, shallow weter	% %
Séronie-Viden 1972 Séronie-Viden 1973 Sirel 1986	Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.72 Sérorie-Wien 1972 p.72 Sérorie-Wien 1972 p.73 Sérorie-Wien 1972 p.73 Sérorie-Wien 1972 p.73 Sérorie-Wien 1972 p.73 Sérorie-Wien 1972 p.74 Sérorie-Wien 1972 p.74 Sirei 1986 fg.1 Sirei 1986 fg.1 Sirei 1996 fg.1 Sirei 1996 fg.1 Sirei 1996 fg.1 Sirei 1996 fg.1 Sirei 1996 fg.1 Sirei 1996 fg.1 Sirei 1973 fg.75 Sirei 1973 fg.75	Dickyopeale, Nummotellala, Orbitoides Nummotslatoita, Orbitoides Nummotslatoita, Orbitoides Dickyopeale, Nummotellalais, Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Dickyopeale, Nummotellatoita, Orbitoides Nummotslatoita Sis Sirtia, Omphalocxydus, Helenocxina, Orbitoides, Orbitoides, Navarella Lotudata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides Lotusata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Siftia	Marne calcaire jaune blanchätre % % Calcaire blanchätre en bancs avec quelques silex Calcaire indulex: marneux, sinem ert gréseux, glauconieux et marnes sableuses glauconieuses Calcaire indulex: marneux, finem ert gréseux, glauconieux et marnes sableuses glauconieuses Calcaire indulex: marneux, gineu: Calcaire indulex: marneux, glaucorieux Calcaire biodastique, gneuencieux Calcaire biodastique, gneuencieux Calcaire biodastique, greveleux, gréseux Calcaire biodastique, gravelles 5% Ibith grav linestone, green and derk red sitstone, tuffi intercelation Sandy linestone, Mari, agillaceous line stone linestone, shallow weter	% %
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Séronie-Viden 1972 Séronie-Viden 1972 Síret 1991 Síret 1996 Síret 1996	Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.89 Séroire-Wien 1972 p.72 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.73 Séroire-Wien 1972 p.74 Séroire-Wien 1972 p.74 Séroire-Wien 1972 p.713 Séroire-Wien 1972 p.713 Sirel 1986 fig.1 Sirel 1986	Dickyopeale, Nummotellala, Orbitoides Nummotslatoita, Orbitoides Nummotslatoita, Orbitoides Dickyopeale, Nummotellalais, Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Dickyopeale, Nummotellatoita, Orbitoides Nummotslatoita Sis Sirtia, Omphalocxydus, Helenocxina, Orbitoides, Orbitoides, Navarella Lotudata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides Lotusata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Siftia	Marne calcaire jaune blanchätre % % % Calcaire blanchätre en bancs avec quelques silex Calcaire induktive fan bancs avec quelques silex Calcaire induktive induktive fan de silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex calcaire biocastique, glaucorieux Calcaire biocastique, graveles Calcaire biocastique, graveles Calcaire biocastique, graveles Not grav linestone, zreen and dark red siltstone, tuffi intercelation Sandy linestone, Mari, rajiliaceous linestone linestone și alimestone, shallowi veder	% %
Séronie-Vivien 1972 Séronie-Viven 1973 Vine 1986 Sirei 1973b Van Occel 1973b Van Occel 1973b Siser 1951	Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.78 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.79 Sérorie-Wien 1972 p.70 Sérorie-Wien 1972 p.71 Sérorie-Wien 1972 p.71 Sérorie-Wien 1972 p.71 Sérorie-Wien 1972 p.71 Sérorie-Wien 1972 p.71 Sérorie-Wien 1972 p.71 Sérorie-Wien 1973 p.75 van Gorsel 1973 p.76 Wisser 1951: p.76 Wisser 1951: p.276	Dickyopeale, Nummotellala, Orbitoides Nummotslatoita, Orbitoides Nummotslatoita, Orbitoides Dickyopeale, Nummotellalais, Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Dickyopeale, Nummotellatoita, Orbitoides Nummotslatoita Sis Sirtia, Omphalocxydus, Helenocxina, Orbitoides, Orbitoides, Navarella Lotudata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides Lotusata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Siftia	Marne calcaire jaune blanchätre % % % Calcaire blanchätre en bancs avec quelques silex Calcaire induktive fan bancs avec quelques silex Calcaire induktive induktive fan de silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex calcaire biocastique, glaucorieux Calcaire biocastique, graveles Calcaire biocastique, graveles Calcaire biocastique, graveles Not grav linestone, zreen and dark red siltstone, tuffi intercelation Sandy linestone, Mari, rajiliaceous linestone linestone și alimestone, shallowi veder	% %
Séronie-Viden 1972 Séronie-Viden 1972 Síref 1981 Síref 1986 Síref 1	Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.88 Séroire-Wien 1972 p.78 Séroire-Wien 1972 p.78 Séroire-Wien 1972 p.79 Séroire-Wien 1972 p.79 Séroire-Wien 1972 p.79 Séroire-Wien 1972 p.71 Séroire-Wien 1972 p.71 Sírel 1996: fig.1 Sirel 1997: fig.1	Dickyopeale, Nummotellala, Orbitoides Nummotslatoita, Orbitoides Nummotslatoita, Orbitoides Dickyopeale, Nummotellalais, Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Dickyopeale, Nummotellatoita, Orbitoides Nummotslatoita Sis Sirtia, Omphalocxydus, Helenocxina, Orbitoides, Orbitoides, Navarella Lotudata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides Lotusata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Siftia	Marne calcaire jaune blanchätre % % % Calcaire blanchätre en bancs avec quelques silex Calcaire induktive fan bancs avec quelques silex Calcaire induktive induktive fan de silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex alternart avec des riveaux plus tendres Calcaire induktive induktive silex calcaire biocastique, glaucorieux Calcaire biocastique, graveles Calcaire biocastique, graveles Calcaire biocastique, graveles Not grav linestone, zreen and dark red siltstone, tuffi intercelation Sandy linestone, Mari, rajiliaceous linestone linestone și alimestone, shallowi veder	% %
Séronie-Viden 1972 Séronie-Viden 1972 Sirel 1981 Sirel 1980 Sirel 1986 Sirel 1986 Sirel 1986 Sirel 1985 Sirel 1973b Haser 1951	Sérorie-Wien 1972 p.88 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.89 Sérorie-Wien 1972 p.72 Sérorie-Wien 1972 p.73 Sérorie-Wien 1972 p.73 Sérorie-Wien 1972 p.74 Sérorie-Wien 1972 p.71 Sérorie-Wien 1972 p.710 Sérorie-Wien 1972 p.710 Sérorie-Wien 1972 p.710 Sérorie-Wien 1972 p.712 Sérorie-Wien 1972 p.712 Sérorie-Wien 1972 p.712 Sérorie-Wien 1972 p.712 Sérorie-Wien 1972 p.712 Sérorie-Wien 1972 p.713 Sérorie-Wien 1972 p.713 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.714 Sérorie-Wien 1972 p.715 Sérorie-Wien 1972 p.715 Sérorie-Wien 1972 p.715 Sérorie-Wien 1973 p.726 Vieser 1931: p.726 Wisser 1951: p.726	Dickyopeale, Nummotellala, Orbitoides Nummotslatoita, Orbitoides Nummotslatoita, Orbitoides Dickyopeale, Nummotellalais, Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Nummotslatoita Orbitoides Dickyopeale, Nummotellatoita, Orbitoides Nummotslatoita Sis Sirtia, Omphalocxydus, Helenocxina, Orbitoides, Orbitoides, Navarella Lotudata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides Lotusata, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Comphalocxydus, Lattifetiona, Helenocxina, Orbitoides, Siftia	Marne calcaire jaune blanchätre % Calcaire blanchätre en bancs avec quelques silex % Calcaire interfacé jaune dair (auconieux et marnes sableuses glauconieuses Calcaire interface à bucates, spicules, glauconieux et marnes sableuses glauconieuses Calcaire interface, à bucates, spicules, glauconieux Calcaire interface, à bucates, spicules, glauconieux Calcaire interface, à bucates, spicules, glauconieux Calcaire interface, à bucates, spicules, glauconieux Calcaire interface, and avec de site x Calcaire interface, à spicules, glauconieux Calcaire interface, gravelux, gréseux Calcaire interface, and y interface, anglilscous linestone Sandtone, sandy intestone, anglilscous linestone Sandtone, sandy intestone, anglilscous linestone % Instrume, shallow weter % % % % %	% %
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13.3 Localities

In this appendix all authors are listed related to the locations where they have worked and the related Faunal Province (Caribbean FP: CFP; Asian FP: ASP; European FP: ESP; African FP: AFP).

- Cuba [CUB; CFP]: Palmer, 1934; Vaughan and Cole, 1943; Caudri, 1944; Brönnimann, 1954; Küpper, 1954a, 1954b; Brönnimann, 1955; Renz, 1955; Brönnimann, 1957, 1958a; Hanzawa, 1962; Ayala-Castanares, 1963; Seiglie and Ayala-Castanares, 1963; Hottinger, 1966; Ellis and Messina, 1967; Krijnen, 1972; Dilley, 1973; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988; de Castro, 1990; Neumann, 1993; Ismail and Boukhary, 2001
- Florida [F-USA; CFP]: Küpper, 1954a; Brönnimann, 1954, 1957, 1958b; Ellis and Messina, 1967; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988; Neumann, 1993; Ismail and Boukhary, 2001
- S-Mexico [S-MEX; CFP]: Ayala-Castanares, 1963; Butterlin, 1967; Myers, 1968; Robinson, 1968; Dilley, 1973; Pécheux, 1984; de Castro, 1990; Rosales Dominguez et al., 1994
- 4) Louisiana, Mississippi [L-USA, M-USA; CFP]: Vaughan and Cole, 1943; Brönnimann, 1957; Seiglie and Ayala-Castanares, 1963; Loeblich and Tappan, 1988
- 5) **Texas [T-USA; CFP]:** Frizzell, 1954; Brönnimann, 1957, 1958b; Loeblich and Tappan, 1988
- 6) **Jamaica [JAM; CFP]:** Vaughan and Cole, 1943; Brönnimann, 1955; Robinson, 1968; Krijnen, 1972; Dilley, 1973; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988; Gunter et al., 2002
- 7) **Haiti [HTI; CFP]:** Brönnimann, 1955, 1957; Seiglie and Ayala-Castanares, 1963; Butterlin, 1967; Loeblich and Tappan, 1988
- 8) Honduras [HND; CFP]: Brönnimann, 1957; Seiglie and Ayala-Castanares, 1963
- 9) Guatemala [GTM; CFP]: Brönnimann, 1954, 1955, 1957, 1958b; Ellis and Messina, 1967; de Castro, 1971; Hamaoui and Fourcade, 1973; Loeblich and Tappan, 1988
- Venezuela [VEN; CFP]: Caudri, 1944, 1948; Brönnimann, 1954, 1955; Renz, 1955; Seiglie and Ayala-Castanares, 1963; Ellis and Messina, 1967; Loeblich and Tappan, 1988; Neumann, 1993
- 11) Colombia [COL; CFP]: Caudri, 1948
- 12) **Puerto Rico [PR-USA; CFP]:** Brönnimann, 1957; Pessagno, 1962; Seiglie and Ayala-Castanares, 1963
- 13) Dutch West Indies [DWI; CFP]: Caudri, 1944, 1948; Brönnimann, 1954, 1955; Ellis and Messina, 1967; Krijnen, 1967, 1972
- 14) Veracruz [V-MEX; CFP]: Brönnimann, 1954; Butterlin, 1967; Ellis and Messina, 1967
- 15) Morocco [MAR; AFP]: Fleury et al., 1985
- 16) Algeria [DZA; AFP]: Schlumberger and Choffat, 1904; Ellis and Messina, 1967; Hamaoui and Fourcade, 1973; Fleury et al., 1985; de Castro, 1990; Neumann, 1993; Caus et al., 1996; Ismail and Boukhary, 2001
- 17) **Tunisia [TUN; AFP]:** Renz, 1936; Ellis and Messina, 1967; Hamaoui and Fourcade, 1973; Fleury et al., 1985; Loeblich and Tappan, 1988
- Libya [LBY; AFP]: Brönnimann and Wirz, 1962; Ellis and Messina, 1967; Fleury et al., 1985; Loeblich and Tappan, 1988; de Castro, 1990; LeBlanc, 2000; Ismail and Boukhary, 2001
- 19) Mauritania [MRT; AFP]: Loeblich and Tappan, 1988

- 20) Egypt [EGY; AFP]: de Castro, 1990; Ismail and Boukhary, 2001
- 21) Bahamas [BHS; CFP]: Kureshy, 1980
- 22) Saudi Arabia [SAU; AFP]: Fleury et al., 1985; Meric and Görmüs, 2001; Meric et al., 2001
- 23) **Oman [OMN; AFP]:** Cox, 1937; Al-Omari and Sadek, 1976; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001; Abdelghany, 2003
- 24) Qatar [QAT; AFP]: Hamaoui and Fourcade, 1973; Fleury et al., 1985; Loeblich and Tappan, 1988; Fleury et al., 1990; Görmüs, 1999; Meric and Görmüs, 2001; Meric et al., 2001
- 25) Yemen [YEM; AFP]: Fleury et al., 1985; Sartorio and Venturini, 1988; Fleury et al., 1990
- 26) Somalia [SOM; AFP]: Fleury et al., 1985; Fleury et al., 1990; Neumann, 1993
- 27) Iraq [IRQ; AFP]: Hamaoui and Fourcade, 1973; Al-Omari and Sadek, 1976; Fleury et al., 1985; Loeblich and Tappan, 1988; Fleury et al., 1990; Meric and Görmüs, 2001; Meric et al., 2001
- 28) Syria [SYR; AFP]: Ellis and Messina, 1967; Fleury et al., 1985; Loeblich and Tappan, 1988; Fleury et al., 1990; Ismail and Boukhary, 2001; Meric and Görmüs, 2001; Meric et al., 2001; Mouty et al., 2003
- 29) Madagascar [MDG; AFP]: Visser, 1951; Fleury et al., 1985; Abramovich et al., 2002
- 30) Belgium [BEL; EFP]: Hofker, 1966; Bignot and Neumann, 1997
- 31) France [FRA; EFP]: Schlumberger, 1899, 1903; Grossouvre, 1904; Paquier, 1904; Schlumberger and Choffat, 1904; Reichel, 1936; Renz, 1936; Visser, 1951; Ciry and Dupérier, 1950; Papp and Küpper, 1953a; Reichel, 1953; Küpper, 1954b; Papp, 1954, 1955a, 1956; Dalbiez, 1958; Barrier and Neumann, 1959; Maync, 1959; Hanzawa, 1962; Gendrot, 1965; Hottinger, 1966; Ellis and Messina, 1967; Gendrot, 1968; van Hinte, 1968; Dupeuble et al., 1972; Neumann, 1972; Séronie-Vivien, 1972; van Gorsel, 1973a, 1973b; Blanc, 1975; Moreau et al., 1978; Wannier, 1980; Andreieff and Neumann, 1983; Wannier, 1983; Drooger, 1984; Verhallen et al., 1984; Baumfalk and van Hinte, 1985; Fleury et al., 1985; Loeblich and Tappan, 1985; Caus and Hottinger, 1986; Caus et al., 1988; Loeblich and Tappan, 1988; Meertens and Drooger, 1988; Hottinger et al., 1989; Marie, unpubl.; de Castro, 1990; Neumann, 1993; Gischler et al., 1994; Caus et al., 1996; Bignot and Neumann, 1997; Meric et al., 1997; Neumann, 1997; Ismail and Boukhary, 2001; Aguilar et al., 2002; Hottinger and Caus, in press
- 32) Spain [ESP; EFP]: Schlumberger, 1898, 1899; Pfender, 1935; Renz, 1936; Bonte, 1942; Visser, 1951; Küpper, 1954b; Hottinger, 1966; Hofker, 1967; de Castro, 1971; Neumann, 1972; Hamaoui and Fourcade, 1973; Azéma et al., 1979; Caus and Cornella, 1983; Wannier, 1983; Caus and Vicens, 1984; Fleury et al., 1985; Loeblich and Tappan, 1985; Caus and Hottinger, 1986; Caus, 1988; Caus et al., 1988; Loeblich and Tappan, 1988; Hottinger et al., 1989; de Castro, 1990; Neumann, 1993; Gischler et al., 1994; Caus et al., 1996; Meric et al., 1997; Neumann, 1997; Görmüs, 1999; Hottinger and Caus, in press
- 33) Germany [DEU; EFP]: Visser, 1951; Hagn, 1971; Neumann, 1972; Hagn, 1981; Fleury et al., 1985
- 34) Sicily [Si-ITA; EFP]: Visser, 1951; Ellis and Messina, 1967; Sartorio and Venturini, 1988; de Castro, 1990; Ismail and Boukhary, 2001
- 35) Italy [ITA; EFP]: Renz, 1936; Visser, 1951; Colalongo, 1963; de Castro, 1965; Luperto Sinni, 1965, 1966; Ellis and Messina, 1967; Luperto Sinni, 1968; de Castro, 1971; Bignot, 1972; Hamaoui and Fourcade, 1973; Luperto Sinni, 1976; Luperto Sinni and Ricchetti, 1978; Ricchetti and Luperto Sinni, 1979; Busulini et al., 1984; Fleury et

al., 1985; de Castro, 1988; Loeblich and Tappan, 1988; Sartorio and Venturini, 1988; de Castro, 1990; Fleury et al., 1990; Görmüs, 1999; Ismail and Boukhary, 2001; Meric and Görmüs, 2001; Meric et al., 2001

- 36) Greece [GRC; EFP]: Arni, 1933; Renz, 1936; Visser, 1951; Butterlin, 1967; Ellis and Messina, 1967; Hamaoui and Fourcade, 1973; Fleury and Godfriaux, 1974; Richter, 1974; Kalkreuth et al., 1976; Richter and Mariolakos, 1976; Fleury, 1977; Fleury et al., 1979; Fleury et al., 1985; Loeblich and Tappan, 1988; Zambetakis-Lekkas, 1988; de Castro, 1990; Fleury et al., 1990; Mavrikas et al., 1994; Görmüs, 1999; Ismail and Boukhary, 2001; Meric and Görmüs, 2001; Meric et al., 2001; Landrein et al., 2001
- 37) Yugoslavia [YUG; EFP]: Papp, 1954; Bignot, 1972; Hamaoui and Fourcade, 1973; Fleury et al., 1985; Gusic et al., 1988; Loeblich and Tappan, 1988; de Castro, 1990; Fleury et al., 1990; Gusic and Jelaska, 1990; Meric and Görmüs, 2001; Meric et al., 2001
- 38) Turkey [TUR; EFP]: Arni, 1933; Ellis and Messina, 1967; Meric, 1967; Neumann, 1972; Fleury et al., 1985; Loeblich and Tappan, 1988; de Castro, 1990; Fleury et al., 1990; Meric and Coruh, 1991; Sirel, 1991; Neumann, 1993; Özcan, 1993; Sirel, 1995; Caus et al., 1996; Görmüs, 1996; Inan, 1996a, 1996b; Inan et al., 1996; Sirel, 1996; Meric et al., 1997; Özcan and Özkan-Altiner, 1997; Görmüs, 1999; Özcan and Özkan-Altiner, 1999; Meric and Görmüs, 2001; Meric et al., 2001; Inan, 2002; Sari and Özer, 2002; Hottinger and Caus, in press
- 39) **Portugal [POR; EFP]:** Schlumberger and Choffat, 1904; Renz, 1936; Bonte, 1942; Loeblich and Tappan, 1988
- 40) Sweden [SWE; EFP]: van Gorsel, 1973b; Loeblich and Tappan, 1988; Sirel, 1995; Bignot and Neumann, 1997
- 41) **Romania [ROM; EFP]:** Renz, 1936; Hamaoui and Fourcade, 1973; Bratu, 1975; Ion, 1975; Loeblich and Tappan, 1988; de Castro, 1990
- 42) S-Russia [RUS; EFP]: Bonte, 1942; Ellis and Messina, 1967; Fleury et al., 1985
- 43) Afghanistan [AFG; ASP]: Fleury et al., 1985
- 44) **S-India [S-IND; ASP]:** Visser, 1951; Nagappa, 1959; Gowda, 1964; McGowran, 1968; Fleury et al., 1985
- 45) N-India [N-IND; ASP]: Nagappa, 1959; Gaetani et al., 1980; Wen, 1987
- 46) Pakistan [PAK; ASP]: Renz, 1936; Nagappa, 1959; Ellis and Messina, 1967; McGowran, 1968; Kureshy, 1977, 1980; Fleury et al., 1985; Wen, 1987; Neumann, 1993; Weiss, 1993; Ismail and Boukhary, 2001
- 47) Indonesia [IDN; ASP]: Silvestri, 1925; Wanner, 1931; Yabe and Hanzawa, 1931; Fleury et al., 1985; Loeblich and Tappan, 1988; Pringgoprawiro et al., 1998
- 48) Tibet [T-CHN; ASP]: Renz, 1936; Nagappa, 1959; Ellis and Messina, 1967; Mu et al., 1973; Ho et al., 1976; Sun and Zhang, 1983; Fleury et al., 1985; Wen, 1987; Loeblich and Tappan, 1988; de Castro, 1990; Butterlin, 1992; Willems et al., 1996; Ismail and Boukhary, 2001; Zhang et al., 2002
- 49) Line Islands (Kiribati) [KIR; CFP]: Premoli Silva and Brusa, 1981; Schlanger and Premoli Silva, 1981; Butterlin, 1992
- 50) **Nauru [NRU; CFP]:** Premoli Silva and Brusa, 1981; Schlanger and Premoli Silva, 1981; Butterlin, 1992
- 51) Papua New Guinea [PNG; CFP]: Yabe and Hanzawa, 1931; Brönnimann, 1955; Crespin, 1962; Seiglie and Ayala-Castanares, 1963; Ellis and Messina, 1967; McGowran, 1968; Fleury et al., 1985; Butterlin, 1992; Neumann, 1993
- 52) **NE-Mexico [NE-MEX; CFP]:** Butterlin, 1967; Loeblich and Tappan, 1988; Butterlin, 1992; Aguilar et al., 2002; Caus et al., 2002

- 53) Israel [ISR; AFP]: Hamaoui and Fourcade, 1973; de Castro, 1988; Loeblich and Tappan, 1988
- 54) Lebanon [LEB; AFP]: Saint-Marc, 1973; Loeblich and Tappan, 1988
- 55) Kuwait [KWP; AFP]: Fleury et al., 1985; Loeblich and Tappan, 1988; Görmüs, 1999
- 56) Iran [IRN; EFP]: Carpenter and Brady, 1869; Douvillé, 1904; Renz, 1936; Cox, 1937; Brönnimann and Wirz, 1962; Al-Omari and Sadek, 1976; Kalantari, 1976; Rahaghi, 1976; Hottinger, 1981; Fleury et al., 1985; Loeblich and Tappan, 1988; Sartorio and Venturini, 1988; Rahaghi, 1989; de Castro, 1990; Fleury et al., 1990; Meric and Coruh, 1991; Görmüs, 1999; Meric and Görmüs, 2001; Meric et al., 2001
- 57) Netherlands [NLD; EFP]: Grossouvre, 1904; Pfender, 1935; Renz, 1936; Visser, 1951; Papp, 1954, 1955a; Renz, 1955; Hanzawa, 1962; Hofker, 1966; Ellis and Messina, 1967; Dupeuble et al., 1972; Neumann, 1972; Wannier, 1980, 1983; Fleury et al., 1985; Caus et al., 1988; Loeblich and Tappan, 1988; de Castro, 1990; Neumann, 1993; Caus et al., 1996; Neumann, 1997; Ferràndez-Canadell, 2000; Ismail and Boukhary, 2001; Aguilar et al., 2002
- 58) Switzerland [CHE; EFP]: Pfender, 1935; Renz, 1936; Visser, 1951; Ellis and Messina, 1967; Wannier, 1983; Fleury et al., 1985; Loeblich and Tappan, 1988; de Castro, 1990; Bignot and Neumann, 1997; Ismail and Boukhary, 2001
- 59) Austria [AUT; EFP]: Visser, 1951; Papp and Küpper, 1953a, 1953b; Papp, 1954; Brönnimann, 1955; Papp, 1955a, 1955b, 1955c, 1956; Loeblich and Tappan, 1988; de Castro, 1990; Butterlin, 1992; Neumann, 1993; Sirel, 1995; Caus et al., 1996; Bignot and Neumann, 1997; Aguilar et al., 2002
- 60) Macedonia [MKD; EFP]: Butterlin, 1967; Meric and Görmüs, 2001; Meric et al., 2001
- 61) Albania [ALB; EFP]: Fleury et al., 1985
- 62) Croatia [HRV; EFP]: Bignot, 1972; Hamaoui and Fourcade, 1973; Fleury et al., 1985; Gusic et al., 1988; Fleury et al., 1990; Gusic and Jelaska, 1990; Meric et al., 2001
- 63) Slovenia [SVN; EFP]: Bignot, 1972; de Castro, 1972; Reichel, 1984; Fleury et al., 1985; Sartorio and Venturini, 1988; de Castro, 1990; Fleury et al., 1990
- 64) Malaysia [MYS; ASP]: McGowran, 1968
- 65) **Philippines [PHL; ASP]:** Hashimoto et al., 1978a, 1978b; Azéma et al., 1979; Hashimoto and Matsumaru, 1981; Hashimoto, 1982; Hashimoto and Matsumaru, 1984; Fleury et al., 1985
- 66) United Arab Emirates [ARE; AFP]: de Castro, 1988
- 67) Hawaii [H-USA; CFP]: Premoli Silva and Brusa, 1981; Butterlin, 1992
- 68) Mexico undifferentiated [MEXu; CFP]: Caudri, 1944; Brönnimann, 1955, 1957; Hanzawa, 1962; Seiglie and Ayala-Castanares, 1963; Hamaoui and Fourcade, 1973; Butterlin, 1981; Caus and Hottinger, 1986; Loeblich and Tappan, 1988; Neumann, 1993
- 69) Cyprus [ZYP; EFP]: Renz, 1936 ; Fleury et al., 1985
- 70) Birma/Myanmar [MMR; ASP]: Fleury et al., 1985
- 71) Slowakei [SVK; EFP] + Czech Republic [CZE; EFP]: Andrusov, 1934; Neumann, 1993
- 72) Sardinia [Sa-ITA; EFP]: Busulini et al., 1984; Fleury et al., 1985; Hottinger et al., 1989
- 73) China [CHN; ASP]: Gaetani et al., 1980; Sun and Zhang, 1983
- 74) former Yugoslavia [YUGf; EFP]: Loeblich and Tappan, 1988; Fleury et al., 1990
- 75) Jordan [JOR; EFP]: Al-Harithi, 1986

Assorted localities:

80) Belgium (30) + The Netherlands (57)

- 81) Israel (53) + Lebanon (54)
- 82) Germany (33) + Switzerland (58) + Austria (59)
- 83) Greece (36) + Macedonia (60) + Albania (61)
- 84) Yugoslavia (37) + Croatia (62) + Slovenia (63) + former Yugoslavia (74)

13.4 Diversity in the Localities

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				а	Helicorbitoides	Hellenocyclina			Lepidorbitoides		Meandropsina	Nummofallotia	Omphalocyclus	па		ia	Pseudorbitoides	Raadshoovenia	па			a	a	Sulcoperculina	t	gen
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	Chubbina	Clypeorbis	Cuneolina	lict	leli	lell	Lacazina	Laffitteina	epi	Loftusia	lea	un _l	duu	rbi	Orbitoides	seu	seu	aac	hap	Siderolites	Sirtina	pire	uba	ulco	aug	Ium
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6 7																	Х							Х		5 2
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9																	Х								Х	2
10									X				Х		Х		Х							X	Х	6
11 12									Х								X							X X	Х	2
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17								X X X					Х		Х	Х										4
18								X	Х				Х		Х					Х	Х					6
19 20								Х					Х		Х											1 2
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25									X X X	Х			Х		Х					Х						5
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30				Х									Х		X X X					X X X	X X X					5
31		Х	Х	X X	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х					Х		Х	Х			17
32		Х	Х	Х		Х	Х	Х	X X		Х	Х	Х	Х	X X	Х		Х		X X	Х					16
33									Х				Х		X					X						4
34			Х	Х				Х	Х	Х		Х	Х		X X	Х		Х	Х	X X						12
36		Х	Х	л		Х		Х	Х	Х		Х	Х		Х	Х		Х	Х	Х	Х					14
37			Х			X			X	X			Х		X	X		X	Х	Х						10
38		Х	Х		Х	X X		Х	X X	X X		Х	Х		Х	X X			Х	Х	Х					14
39				Х												Х										2
40					Х																					1
41 42									X X				Х		Х					Х						4
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44						-		- 11	Х					Х						Х						3
45													Х		Х					Х						3
46								Х	Х				Х		Х					Х						5
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48			V						X				Х		Х		v			Х				v	v	4
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56						X			X	Х		**	X		X	Х				X	Х					8
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61																			Х							1
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64									Х																	1
65									Х				Х		Х											3
66																Х										1
67									Х								Х							Х	Х	4
68	Х													Х	Х		Х							Х		5
69								Х	Х				Х	Х	Х				Х	Х						7
70															Х											1
71									Х				Х		Х					Х						4
72		Х					Х		Х						Х											4
73																				Х						1
74								Х	Х					Х												3
	Chubbina	Clypeorbis	Cuneolina	Dictyopsella	Helicorbitoides	Hellenocyclina	Lacazina	Laffitteina	Lepidorbitoides	Loftusia	Meandropsina	Nummofallotia	Omphalocyclus	Pseudorbitella	Orbitoides	Pseudedomia	Pseudorbitoides	Raadshoovenia	Rhapydionina	Siderolites	Sirtina	Spirocyclina	Subalveolina	Sulcoperculina	Vaughanina	Number of genera