DISTRIBUTION PATTERNS OF IBERIAN CARABIDAE (INSECTA, COLEOPTERA)

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ABSTRACT

We have categorised the 1336 species and subspecies of the Iberian Peninsula according to the chorotype classification proposed by Vigna Taglianti *et al.* (1992), modified by the addition of new chorotypes. The Iberian Peninsula is noticeable among the different European and Circum-Mediterranean regions by the high proportion of endemic taxa (43.1%). The old age and stability of the northern half, the extreme position of the Peninsula within the Eurasiatic continent, alpine tectonics and abundance of caves are among the factors that have probably contributed to the origin of a distinctive fauna. Taxa with a large distribution pattern are predominant at a regional scale; the proportion of endemic taxa increases to the North and in mountain regions; Mediterranean elements are more frequent in the South whereas European elements increase in the northern half. Adaptation to a Mediterranean climatic regime and dispersal are two of the factors causing these patterns. The Peninsula is poor in Afrotropical elements, probably because of the strong isolation derived from the Sahara Desert. The Balearic Islands have high proportions of widely distributed and Mediterranean taxa, what suggests a main role of dispersal in the colonisation of the archipelago. The proportion of endemic taxa in Mallorca (7.8%) is intermediate between that of Sardinia and Sicily; in spite of a relatively long isolation, the Balearic Islands are small in size and moderately rich in caves, what explains that most endemic taxa are found in the lowlands.

Keywords: Carabidae, Iberian Peninsula, Balearic Islands, distribution, chorotypes.

RESUMEN

Patrones de distribución de los Carabidae ibéricos (Insecta, Coleoptera)

Se han categorizado las 1336 especies y subespecies de la fauna ibérica de Carabidae, usando los corotipos propuestos por Vigna Taglianti *et al.* (1992), los cuales se han completado con algunos otros adicionales. La Península Ibérica destaca entre las diversas regiones europeas y circunmediterráneas por la elevada proporción de elementos endémicos (43,1%). La antigüedad y estabilidad de la mitad norte peninsular, el aislamiento de la región, los plegamientos alpinos y la abundancia de cuevas, son factores que probablemente han contribuido a su singularidad faunística. Los elementos de amplia distribución predominan a la escala regional; las proporciones de endemismos son mayores hacia el Norte y en las zonas de montaña; la de los elementos mediterráneos se incrementa hacia el Sur, al contrario de lo que ocurre con los elementos europeos. La adaptación al régimen climático mediterráneo y la dispersión son dos de los factores que probablemente causan estos patrones. La Península es pobre en elementos afrotropicales, posiblemente debido al aislamiento causado por la barrera natural del Sahara. Las Islas Baleares tienen altas proporciones de elementos de amplia distribución y mediterráneos, lo que sugiere el papel relevante de la dispersión en la colonización de las islas. La proporción de endemismos de Mallorca (7,8%) es intermedia entre la de Cerdeña y Sicilia; a pesar de su aislamiento las Baleares son de tamaño pequeño y tienen un abundancia moderada de medios favorables para la especiación, como ocurre con las cuevas, lo que explica que la mayoría de los endemismos se encuentren en zonas abiertas de baja altitud.

Palabras clave: Carabidae, Península Ibérica, Islas Baleares, distribución, corotipos.

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Introduction

The present distribution of species is usually the result of complex interactions between adaptation to particular conditions, power of dispersal and colonisation, history, and chance. The use of chorotypes for characterising in a single word such a complex sequence of events, is useful in terms of economy but may be more interesting for revealing a common process that influenced the distribution of whole floras and faunas, as it is the case of the biotic interchange that followed the connection between the Americas after the closure of the Panama Isthmus, 1,9 million years ago (Marshall, 1988), or the occurrence of vicariant events after the separation between the Iberian Peninsula and North Africa about 5.5 million years ago (López-Martínez, 1989; Rogl & Steininger, 1983).

The development of categories for characterising the species distribution has not yet reached a wide consensus and hence these categories may vary significantly depending on the author consulted. Thus, the meaning of the category "West Palearctic" is not the same in the recent books of Hůrka (1996) and Turin (2000). This is also found in papers dealing with the Iberian carabid fauna (Novoa *et al.*, 1989 and 1996 versus Andújar *et al.*, 2000).

Italian researchers attained a valuable consensus on the categorisation of chorotypes (Vigna Taglianti *et al.*, 1992), after a deep discussion that took into account the distribution patterns of different types of animals (most of them insects). We have selected the chorotypes put forward in that paper as a starting point for developing the geographic categorisation of the Iberian carabid fauna. The goals of this paper are to: 1) Present an updated catalogue of the Iberian carabid fauna categorised into chorotypes that follow the criteria postulated by Vigna Taglianti *et al.* (1992); 2) Make this catalogue accessible through Internet to anyone working with the geographic distribution of Iberian Carabidae; 3) Keep the catalogue actualised with the collaboration of researchers, by adding, deleting or correcting the categories of the chorotypes. This actualisation includes also changes concerning the taxa and their nomenclature, and the distribution data in the Iberian Peninsula and the Balearic Islands as well. This basic information may be used to build up more complex databases, to develop regional or local studies starting on a basic knowledge, etc.

Methods

Species list

The list of species of the Iberian Peninsula and the Balearic Islands (Table 1) follows the ordination of the new catalogue of Iberian Carabidae (Serrano, 2003). It includes 1161 species. The need of describing the distribution of taxa in the different natural regions of the Iberian Peninsula (see below) justifies the consideration of subspecies for those polytypic species. Therefore, the total number of categorised taxa included in the analyses of the faunistic composition of the natural regions is 1336 species and subspecies. For each taxon of the list it is indicated the code corresponding to its chorotype.

Sources of distribution data

The new catalogue of Iberian Carabidae (Serrano, 2003) includes detailed information for species with a restricted area (often endemic to mountains, caves, etc.), but only offers a general indication of the distribution of taxa which are widely distributed. For assessing the presence of each taxon in the natural regions of Iberia, we have made an exhaustive search of any paper having distributional information. This makes a long bibliographic list (more than 530 references) that will be also available in the Internet page of the Museo Nacional de Ciencias Naturales, or upon request to us. These data have been completed with the inclusion of our personal records not yet published. Data of authors have been reinterpreted according to the systematics used in the new catalogue, particularly those ones of old papers based on past nomenclatural criteria. The finding of old names is possible by searching them in the species list, as most used synonyms are also mentioned.

Criteria for categorising the chorotypes

The species with a large distribution range have been categorised according to the criteria put forward by Vigna Taglianti *et al.* (1992) (Table 1). Eight new chorotypes have been added to the list when the distribution pattern of species does not fit the initial list. These new categories are:

- **Turano South Mediterranean.** This distribution includes the Turanian region and the southern half of the Mediterranean basin, with a western limit in Andalusia and (or) southeast Spain. The distribution of *Megacephala euphratica* is an example of this pattern. Code number **1.14.**
- **The Alpine** chorotype refers to orophilous species that occupy the Pyrenees (and sometimes the

Table 1.— Chorotypes used in this work based on the criteria proposed by Vigna Taglianti *et al.* (1992).

Table 1.— Corotipos usados en el presente trabajo basados en los criterios propuestos por Vigna Taglianti *et al.* (1992).

Code	Acronym	Distribution range
0.01	COSM	Cosmopolitan
1.01	HOLA	Holarctic
1.02	PALE	Palearctic
1.03	WPAL	West-Palearctic
1.04	ASER	Asiatic-European
1.05	SIER	Sibirian-European
1.06	CAEM	Centralasiatic-European-Mediterranean
1.07	CAER	Centralasiatic-European
1.08	CAME	Centralasiatic–Mediterranean
1.09	TEUM	Turanian-European-Mediterranean
1.10	TUER	Turanian-European
1.11	TUME	Turanian-Mediterranean
1.12	EUME	European-Mediterranean
1.14	TSER	Turanian-South European
2.01	EURP	European
2.03	CEUR	Central-European
2.04	SOER	South-European
2.05	WEUR	West-European
2.07	ALPI	Alpine
3.01	MEDT	Mediterranean
3.02	WMED	West-Mediterranean
3.04	NAFR	North-African
3.05	MESI	Mediterranean-Sindian
3.06	ATLA	Atlantic Litoral
3.07	NOME	North-Mediterranean Litoral
4.01	AIME	Afrotropic-lndo-Mediterranean
4.02	AFME	Afrotropic-Mediterranean
4.03	INME	Indo-Mediterranean
5.04	SASI	Saharian-Sindian
6.00	ENDE	Endemic
6.01	BERI	Betic-Riffian
6.02	LION	Lioniguric
6.03	IBMG	Ibero-Maghrebian
6.04	CAPR	Catalonian Provencale

Cantabric Mountains too) and one or more of the following mountains: the Alps, the Central Massif, the Apennines, the Carpathian Mountains, etc. *Nebria rufescens* is a good example of this chorotype. In some cases, these species are also found up to Scandinavia and North America. Code number **2.07.**

- **Northern Mediterranean littoral.** This category is applied to species of the northern Mediterranean seashore. Species of Southern Europe not restricted to the sea border and with a wide altitudinal range have been already classified into the 2.04 chorotype. *Pogonus meridionalis* and *P. riparius* have this geographic pattern. Code number **3.07.**
- **The Atlantic** chorotype is applied to species inhabiting the littoral and sublittoral zones between Morocco and the English Channel. *Aepopsis robinii* and *Cillenus lateralis* are examples of this chorotype. Code number **3.06.**

Taxa exclusive of the whole Peninsula (including the Pyrenees) or restricted to one or more of its natural regions are considered as the "endemic" chorotype. Vigna Taglianti *et al.* (1992) also considered subendemic taxa. In the case of the Iberian Peninsula these taxa should be broadly considered as Western Mediterranean elements, but their present distribution restricted to the Iberian Peninsula and either southern France or northern Morocco, is perhaps suggesting recent vicariant or dispersal events at a regional scale. Categories for these taxa are:

- **Betic-Riffian** species occupy the mountains of the south Iberian Peninsula and the Rif Mountains of northern Morocco. In some cases the distribution range includes the Sistema Central in Iberia or the northern part of the Atlas Mountains. *Bembidion schmidti* and *Penetretus temporalis* have this pattern. Code number **6.01.**
- **Lioniguric** species are also orophilous taxa that are found in the mountain arch made up the Catalonian Chain and the Alps Maritimes between France and Italy. Occasionally the distribution range may extend southwards. *Aptinus pyrenaeus* is an example of this pattern. Code number **6.02.**
- **Iberian-Maghrebine** elements are taxa occupying the southern half of Iberia and North Morocco, extending farther to North Algeria and Tunisia is some cases. The altitudinal range of taxa is large but most of them prefer the lowlands. *Elaphrus lheritieri* and *Siagona dejeani* are examples of this chorotype. Code number **6.03.**
- **Catalonian-Provencale** elements are equivalent to lioniguric elements but always prefer the lowlands, and are therefore found between south France and the Mediterranean coast of Catalonia, sometimes extending their range farther into the Iberian Peninsula or along littoral and sublittoral regions towards the South. *Poecilus laevigatus* has this distribution pattern. Code number **6.04.**

The complete list of chorotypes used in this work is indicated in the Table 1. We have omitted the chorotypes indicated by Vigna Taglianti *et al.* (1992) without representatives in the Iberian Peninsula.

Table 2.— Total number of species of Carabidae and percentages of chorotypes (in brackets) recorded for the Iberian Peninsula, its natural regions and each of the Balearic Islands. Acronym of chorotypes as in table 1. IBP Iberian Peninsula, COS Southernmost Cone, PEN Penibetic Chains, ALM Almeria Plain, BET Betic Chains and River Guadalquivir Basin, ALG Algarve, SME South Meseta, MUR Murcia Plain, VAL Valencia Plain, POR littoral of Portugal, CEN Central Chains, SIB South Iberian Chain, EBR River Ebro Basin, NIB North Iberian Chain, NME North Meseta, GAL Galician-Douro region, LEO Mountains of Leon, CTB Cantabrian Mountains, BAC Basque Country, PYR Pyrenees, CAT Catalonia, IBZ Ibiza, MAL Mallorca, MEN Minorca.

Code	Acronym	IBP	COS	PEN	ALM	BET	ALG	SME	MUR	VAL	POR	CEN	SIB	EBR	NIB	NME
0.01	COSM	3 (0,3)	2 (0,6)	1 (0,3)	0	2 (0,5)	3 (1,6)	3 (0,7)	2 (0,8)	1 (0,6)	3 (1,2)	1 (0,3)	1 (0,3)	1 (0,5)	2 (0,7)	1 (0,3)
1.01	HOLA	8 (0,7)	1 (0,3)	2 (0,6)	0	3 (0,7)	0	5 (1,1)	0	1 (0,6)	3 (1,2)	5 (1,3)	4 (1,3)	3 (1,4)	6 (2,0)	5 (1,6)
1.02	PALE	23 (2,0)	14 (4,1)	15 (4,5)	107,1)	17 (4,2)	13 (7,0)	18 (4,1)	15 (6,0)	11 (6,1)	10 (4,0)	17 (4,3)	15 (4,8)	16 (7,7)	16 (5,4)	16 (5,2)
1.03	WPAL	21 (1,8)	11 (3,2)	13 (3,9)	7 (5,0)	14 (3,5)	6 (3,2)	19 (4,3)	10 (4,0)	9 (5,0)	11 (4,4)	17 (4,3)	15 (4,8)	11 (5,3)	16 (5,4)	18 (5,8)
1.04	ASER	29 (2,5)	2 (0,6)	2 (0,6)	1 (0,7)	7 (1,7)	0	9 (2,0)	3 (1,2)	1 (0,6)	2 (0,8)	13 (3,3)	11 (3,5)	7 (3,4)	13 (4,4)	14 (4,5)
1.05	SIER	58 (5,0)	7 (2,1)	6 (1,8)	3 (2,1)	8 (2,0)	3 (1,6)	16 (3,6)	4 (1,6)	4 (2,2)	9 (3,6)	20 (5,0)	16 (5,1)	10 (4,8)	18 (6,1)	20 (6,5)
1.06	CAEM	10 (0,9)	7 (2,1)	3 (0,9)	1 (0,7)	7 (1,7)	2 (1,1)	10 (2,3)	6 (2,4)	3 (1,7)	3 (1,2)	5 (1,3)	3 (1,0)	5 (2,4)	4 (1,3)	5 (1,6)
1.07	CAER	19 (1,6)	1 (0,3)	1 (0,3)	0	6 (1,5)	3 (1,6)	6 (1,4)	3 (1,2)	3 (1,7)	5 (2,0)	9 (2,3)	8 (2,6)	6 (2,9)	10 (3,4)	4 (1,3)
1.08	CAME	5 (0,4)	3 (0,9)	1 (0,3)	2 (1,4)	3 (0,7)	2 (1,1)	5 (1,1)	4 (1,6)	3 (1,7)	3 (1,2)	3 (0,8)	2 (0,6)	3 (1,4)	2 (0,7)	2 (0,6)
1.09	TEUM	19 (1,6)	13 (3,8)	10 (3,0)	6 (4,3)	17 (4,2)	7 (3,8)	15 (3,4)	12 (4,8)	7 (3,9)	11 (4,4)	14 (3,5)	11 (3,5)	11 (5,3)	13 (4,4)	13 (4,2)
1.10	TUER	20 (1,7)	6 (1,8)	2 (0,6)	1 (0,7)	9 (2,2)	1 (0,5)	13 (2,9)	3 (1,2)	5 (2,8)	6 (2,4)	8 (2,0)	11 (3,5)	5 (2,4)	6 (2,0)	9 (2,9)
1.11	TUME	24 (2,1)	10 (2,9)	8 (2,4)	7 (5,0)	17 (4,2)	6 (3,2)	19 (4,3)	12 (4,8)	5 (2,8)	7 (2,8)	10 (2,5)	5 (1,6)	7 (3,4)	4 (1,3)	6 (1,9)
1.12	EUME	27 (2,3)	19 (5,6)	17 (5,0)	8 (5,7)	23 (5,7)	11 (5,9)	25 (5,7)	18 (7,2)	18 (10,1)	21 (8,4)	22 (5,5)	19 (6,1)	16 (7,7)	18 (6,1)	17 (5,5)
1.14	TSER	11 (0,9)	3 (0,9)	5 (1,5)	4 (2,9)	4 (1,0)	2 (1,1)	7 (1,6)	5 (2,0)	5 (2,8)	2 (0,8)	2 (0,5)	5 (1,6)	4 (1,9)	3 (1,0)	4 (1,3)
2.01	EURP	63 (5,4)	9 (2,6)	7 (2,1)	2 (1,4)	16 (4,0)	7 (3,8)	20 (4,5)	8 (3,2)	7 (3,9)	12 (4,8)	25 (6,3)	22 (7,1)	11 (5,3)	25 (8,4)	24 (7,8)
2.03	CEUR	3 (0,2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.04	SOER	25 (2,2)	7 (2,1)	7 (2,1)	4 (2,9)	11 (2,7)	4 (2,2)	12 (2,7)	7 (2,4)	5 (2,8)	5 (2,0)	12 (3,0)	14 (4,5)	10 (4,8)	13 (4,4)	9 (2,9)
2.05	WEUR	21 (1,8)	3 (0,9)	5 (1,5)	1 (0,7)	9 (2,2)	1 (0,5)	3 (0,7)	3 (1,2)	5 (2,8)	4 (1,6)	11 (2,8)	10 (3,2)	4 (1,9)	8 (2,7)	9 (2,9)
2.07	ALPI	15 (1,3)	0	2 (0,6)	0	0	0	1 (0,2)	0	1 (0,6)	0	3 (0,8)	2 (0,6)	0	3 (1,0)	2 (0,6)
3.01	MEDT	64 (5,5)	48 (14,1)	32 (9,5)	24 (17,1)	42 (10,4)	28 (15,1)	50 (11,3)	39 (15,6)	27 (15,1)	26 (10,4)	26 (6,5)	20 (6,4)	21 (10,1)	18 (6,1)	24 (7,8)
3.02	WMED	96 (8,1)	70 (20,6)	63 (18,7)	21 (15,0)	66 (16,4)	31 (16,7)	63 (14,3)	43 (17,2)	32 (17,9)	38 (15,1)	40 (10,1)	41 (13,1)	25 (12,0)	24 (8,1)	38 (12,3)
3.04	NAFR	8 (0,7)	6 (1,8)	1 (0,3)	1 (0,7)	4 (1,0)	4 (2,2)	4 (0,9)	6 (2,4)	3 (1,7)	1 (0,4)	0	1 (0,3)	2 (1,0)	0	1 (0,3)
3.05	MESI	1 (0,1)	0	1 (0,3)	1 (0,7)	0	0	1 (0,2)	1 (0,4)	1 (0,6)	0	0	1 (0,3)	1 (0,5)	0	0
3.06	ATLA	5 (0,4)	2 (0,6)	1 (0,3)	0	0	1 (0,5)	1 (0,2)	0	0	3 (1,2)	0	0	0	0	1 (0,3)
3.07	NOME	4 (0,3)	2 (0,6)	2 (0,6)	2 (1,4)	1 (0,2)	2 (1,1)	2 (0,5)	3 (1,2)	3 (1,7)	0	0	0	0	0	1 (0,3)
4.01	AIME	1 (0,1)	1 (0,3)	1 (0,3)	1 (0,7)	1 (0,2)	1 (0,5)	1 (0,2)	1 (0,4)	1 (0,6)	0	0	1 (0,3)	0	0	0
4.02	AFME	10 (0,9)	8 (2,4)	5 (1,5)	3 (2,1)	4 (1,0)	4 (2,2)	6 (1,4)	1 (0,4)	3 (1,7)	3 (1,2)	2 (0,5)	3 (1,0)	3 (1,4)	2 (0,7)	1 (0,3)
4.03	INME	1 (0,1)	1 (0,3)	0	0	0	1 (0,5)	1 (0,2)	1 (0,4)	0	0	0	0	0	0	0
5.04	SASI	3 (0,3)	1 (0,3)	2 (0,6)	1 (0,7)	1 (0,2)	1 (0,5)	1 (0,2)	1 (0,4)	1 (0,6)	0	0	1 (0,3)	1 (0,5)	0	0
6.00	ENDE	500 (43,1)	41 (12,1)	90 (26,7)	19 (13,6)	76 (18,9)	29 (15,6)	78 (17,7)	18 (7,2)	11 (6,1)	49 (19,5)	115 (28,9)	55 (17,6)	18 (8,7)	67 (22,6)	54 (17,5)
6.01	BERI	6 (0,5)	2 (0,6)	5 (1,5)	0	4 (1,0)	0	2 (0,5)	0	0	0	2 (0,5)	2 (0,6)	0	0	0
6.02	LION	3 (0,3)	0	1 (0,3)	0	2 (0,5)	0	1 (0,2)	1 (0,4)	0	0	0	2 (0,6)	0	0	0
6.03	IBMG	51 (4,4)	40 (11,8)	21 (6,2)	9 (6,4)	27 (6,7)	13 (7,0)	23 (5,2)	14 (5,6)	2 (1,1)	14 (5,6)	15 (3,8)	8 (2,6)	4 (1,9)	3 (1,0)	10 (3,2)
6.04	CAPR	7 (0,6)	0	1 (0,3)	1 (0,7)	2 (0,5)	0	1 (0,2)	2 (0,8)	1 (0,6)	0	1 (0,3)	3 (1,0)	3 (1,4)	3 (1,0)	1 (0,3)
	total	1161	340	337	140	403	186	441	250	179	251	398	312	208	297	309

Fig. 1.— Map of the natural regions of the Iberian Peninsula and the Balearic Islands considered in this paper.

Fig. 1.— Mapa de las regiones naturales de la Península Ibérica e Islas Baleares utilizadas en este estudio.

Tabla 2.— Número total de especies de Carabidae y porcentajes de corotipos (entre paréntesis) encontradas en la Península Ibérica, sus regiones naturales y las Islas Baleares. Acrónimos de los corotipos igual que en la Tabla 1. IBP Península Ibérica, COS Cono Sur, PEN Cadenas Penibéticas, ALM Planicie de Almería, BET Cadenas Béticas y cuenca del río Guadalquivir, ALG Algarve, SME Meseta Sur, MUR Planicie de Murcia, VAL Planicie de Valencia, POR litoral de Portugal, CEN Sistema Central, SIB Cadena Sudibérica, EBR Cuenca del Ebro, NIB Cadena Noribérica, NME Meseta Norte, GAL Región Galaico-Dórica, LEO Montes de León, CTB Cordillera Cantábrica, BAC País Vasco, PYR Pirineos, CAT Cataluña, IBZ Ibiza, MAL Mallorca, MEN Menorca.

Code	Acronym	SIB	EBR	NIB	NME	GAL	LEO	CTB	BAC	PYR	CAT	IBZ	MAL	MEN
0.01	COSM	1 (0,3)	1 (0,5)	2 (0,7)	1 (0,3)	0	1 (0,4)	1 (0,3)	1 (0,4)	1 (0,2)	2 (0,5)	1 (1,2)	1 (0,6)	1 (0,8)
1.01	HOLA	4 (1,3)	3 (1,4)	6 (2,0)	5 (1,6)	6 (1,7)	3 (1,3)	6 (1,8)	7 (2,5)	6 (1,3)	7 (1,7)	0	1 (0,6)	0
1.02	PALE	15 (4,8)	16 (7,7)	16 (5,4)	16 (5,2)	15 (4,2)	10 (4,3)	13 (3,9)	19 (6,7)	16 (3,6)	19 (4,6)	2 (0,4)	12 (6,7)	9 (7,2)
1.03	WPAL	15 (4,8)	11 (5,3)	16 (5,4)	18 (5,8)	12 (3,4)	6 (2,6)	11 (3,3)	12 (4,3)	14 (3,1)	20 (4,8)	5 (6,0)	6 (3,4)	3 (2,4)
1.04	ASER	11 (3,5)	7 (3,4)	13 (4,4)	14 (4,5)	19 (5,4)	15 (6,4)	18 (5,4)	16 (5,7)	25 (5,6)	19 (4,6)	1 (1,2)	2 (1,1)	2 (1,6)
1.05	SIER	16 (5,1)	10 (4,8)	18 (6,1)	20 (6,5)	27 (7,6)	17 (7,3)	31 (9,4)	28 (9,9)	38 (8,5)	19 (4,6)	4 (4,8)	8 (4,5)	6 (4,8)
1.06	CAEM	3 (1,0)	5 (2,4)	4 (1,3)	5 (1,6)	5 (1,4)	3 (1,3)	2 (0,6)	3 (1,1)	4 (0,9)	9 (2,2)	2 (0,4)	4 (2,2)	4 (3,2)
1.07	CAER	8 (2,6)	6 (2,9)	10 (3,4)	4 (1,3)	10 (2,8)	6 (2,6)	6 (1,8)	7 (2,5)	12 (2,7)	14 (3,4)	2 (0,4)	4 (2,2)	2 (1,6)
1.08	CAME	2 (0,6)	3 (1,4)	2 (0,7)	2 (0,6)	1 (0,3)	0	1 (0,3)	1 (0,4)	1 (0,2)	5 (1,2)	3 (3,6)	4 (2,2)	4 (3,2)
1.09	TEUM	11 (3,5)	11 (5,3)	13 (4,4)	13 (4,2)	13 (3,7)	9 (3,9)	9 (2,7)	13 (4,6)	10 (2,2)	16 (3,9)	6 (7,2)	10 (5,6)	9 (7,2)
1.10	TUER	11 (3,5)	5 (2,4)	6 (2,0)	9 (2,9)	8 (2,3)	2 (0,9)	5 (1,5)	8 (2,8)	9 (2,0)	9 (2,2)	1 (1,2)	3 (1,7)	0
1.11	TUME	5 (1,6)	7 (3,4)	4 (1,3)	6 (1,9)	6 (1,7)	5 (2,1)	3 (0,9)	4 (1,4)	5 (1,1)	15 (3,6)	4 (4,8)	6 (3,4)	3 (2,4)
1.12	EUME	19 (6,1)	16 (7,7)	18 (6,1)	17 (5,5)	22 (6,2)	14 (6,0)	17 (5,1)	19 (6,7)	16 (3,6)	24 (5,8)	9 (10,8)	16 (8,9)	12 (9,6)
1.14	TSER	5 (1,6)	4 (1,9)	3 (1,0)	4 (1,3)	2 (0,6)	3 (1,3)	1 (0,3)	0	2 (0,4)	7 1,7)	3 (3,6)	2 (1,1)	2 (1,6)
2.01	EURP	22 (7,1)	11 (5,3)	25 (8,4)	24 (7,8)	29 (8,2)	20 (8,6)	35 (10,6)	30 (10,6)	38 (8,5)	28 (6,8)	3 (3,6)	5 (2,8)	5 (4,0)
2.03	CEUR	0	0	0	0	0	0	0	1 (0,4)	1 (0,2)	1 (0,2)	0	0	0
2.04	SOER	14 (4,5)	10 (4,8)	13 (4,4)	9 (2,9)	13 (3,7)	8 (3,4)	10 (3,0)	9 (3,2)	12 (2,7)	16 (3,9)	3 (3,6)	7 (3,9)	4 (3,2)
2.05	WEUR	10 (3,2)	4 (1,9)	8 (2,7)	9 (2,9)	9 (2,5)	6 (2,6)	10 (3,0)	12 (4,3)	16 (3,6)	15 (3,6)	0	1 (0,6)	1 (0,8)
2.07	ALPI	2 (0,6)	0	3 (1,0)	2 (0,6)	1 (0,3)	2 (0,9)	8 (2,4)	1 (0,4)	15 (3,4)	6 (1,5)	0	0	0
3.01	MEDT	20 (6,4)	21 (10,1)	18 (6,1)	24 (7,8)	18 (5,1)	6 (2,6)	7 (2,1)	9 (3,2)	11 (2,5)	30 (7,3)	13 (15,7)	31 (17,3)	21 (16,8)
3.02	WMED	41 (13,1)	25 (12,0)	24 (8,1)	38 (12,3)	30 (8,5)	17 (7,3)	21 (6,3)	20 (7,1)	24 (5,4)	50 (12,1)	12 (14,5)	24 (13,4)	17 (13,6)
3.04	NAFR	1 (0,3)	2 (1,0)	0	1 (0,3)	1 (0,3)	0	0	0	0	2 (0,5)	1 (1,2)	2 (1,1)	2 (1,6)
3.05	MESI	1 (0,3)	1 (0,5)	0	0	0	0	0	0	0	1 (0,2)	0	1 (0,6)	0
3.06	ATLA	0	0	0	1 (0,3)	4 (1,1)	0	2 (0,6)	3 (1,1)	0	0	0	0	0
3.07	NOME	0	0	0	1 (0,3)	2 (0,6)	0	0	0	0	3 (0,7)	0	2 (1,1)	2 (1,6)
4.01	AIME	1 (0,3)	0	0	0	0	0	0	0	0	1 (0,2)	1 (1,2)	1 (0,6)	1 (0,8)
4.02	AFME	3 (1,0)	3 (1,4)	2 (0,7)	1 (0,3)	2 (0,6)	1 (0,4)	1 (0,3)	1 (0,4)	1 (0,2)	6 (1,5)	3 (3,6)	6 (3,4)	5 (4,0)
4.03	INME	0	0	0	0	0	0	0	0	0	0	0	0	0
5.04	SASI	1 (0,3)	1 (0,5)	0	0	0	0	0	0	0	1 (0,2)	0	2 (1,1)	0
6.00	ENDE	55 (17,6)	18 (8,7)	67 (22,6)	54 (17,5)	91 (21,7)	76 (32,6)	112 (33,8)	54 (19,1)	162 (36,4)	58 (14,0)	3 (3,6)	14 (7,8)	7 (5,6)
6.01	BERI	2 (0,6)	0	0	0	1 (0,3)	0	0	0	0	1 (0,2)	0	0	0
6.02	LION	2 (0,6)	0	0	0	0	0	0	1 (0,4)	2 (0,4)	1 (0,2)	0	0	0
6.03	IBMG	8 (2,6)	4 (1,9)	3 (1,0)	10 (3,2)	7 (2,0)	3 (1,3)	1 (0,3)	3 (1,1)	0	2 (0,5)	1 (1,2)	4 (2,2)	3 (2,4)
6.04	CAPR	3 (1,0)	3 (1,4)	3 (1,0)	1 (0,3)	0	0	0	0	4 (0,9)	6 (1,5)	0	0	0
	total	312	208	297	309	354	233	331	282	445	413	83	179	125

The natural regions of the Iberian Peninsula and the Balearic Islands

In order to analyse the geographic patterns at a regional scale the Iberian Peninsula has been divided into 22 natural regions, most of which were proposed by Jeanne in his catalogues of Iberian Carabidae (Jeanne, 1965-1978; Jeanne & Zaballos, 1986; Zaballos & Jeanne, 1994). To these regions it is added the three Balearic Islands (Fig. 1). Natural barriers and climatic conditions are the main factors that characterise the peninsular regions, but such division is only tentative and should be probably corrected when detailed faunistic analyses are carried out. We have added the Algarve as a distinct region, and have also differentiated the Penibetic from the Betic Mountains. The Sistema Central is considered as a unit (following Jeanne's ideas) but perhaps should be better divided into an East group (from the NE extreme to Guadarrrama mountains), a Central group including the sierras of Gredos, Béjar and Gata, and a western group including the Sierra de la Estrela in Portugal. Localities of species records situated in the border of these natural regions have been usually assigned to only one of them, based on altitude and predominant vegetation.

Results

The chorotype of all species and subspecies of Iberian Carabidae is indicated in the Appendix. A full version of this Appendix that includes the pre-

Table 3.— Supraspecific taxa of Iberian carabid beetles with a high percentage of endemic species. Only taxa including 10 species or more are listed.

Tabla 3.— Taxones supraespecíficos de Carabidae ibéricos con un porcentaje elevado de endemismos. Sólo figuran aquellos que tienen 10 o más especies.

Tribe	Subtribe or genus	ratio endemic /total no. species, and total no. of species of the taxon
Carabini	*Carabus*	79.3%, 29 species
Nebriini	*Leistus*	56.3%, 16 species
Nebriini	*Nebria*	63.2%, 19 species
Trechini	the whole tribe	91.8%, 97 species
Bembidiini	Anillina	100%, 82 species
Pterostichini	Molopina	93.3%, 15 species
Pterostichini	*Cryobius*	94.1%, 17 species
Pterostichini	*Pterostichus*	44.4%, 27 species
Zabrini	*Zabrus*	93.3%, 30 species
Sphodrini	*Platyderus*	95.7%, 46 species
Sphodrini	*Calathus*	60.9%, 23 species
Sphodrini	*Laemostenus*	81.3%, 16 species
Lebiini	*Trymosternus*	100%, 10 species
Lebiini	*Cymindis*	46.2%, 13 species
Brachinini	*Brachinus*	45.5%, 22 species

sence of each taxon in the natural regions of the Iberian Peninsula will be available in an Internet page developed by the Museo Nacional de Ciencias Naturales (Madrid). Table 2 is directly derived from that complete Appendix. The number of taxa and percentages for the Iberian Peninsula and Balearic Islands as a whole, is referred to 1161 species (subspecies are not considered). However, and for the reasons indicated above, we have considered also the subespecies level (1336 taxa) to determine the faunistic composition of the natural regions of Iberia.

The Iberian Peninsula and the Balearic Islands

Endemic taxa make up the most frequent chorotype of the Iberian Carabidae (500 species, 43,1%). If subendemic chorotypes represented by 67 species (5.8%) are added to the endemic taxa the percentage increases to 48.9%.

Chorotypes corresponding to large distributional ranges (i.e., those with code numbers 0 and 1) are found in 277 species (23.9%), whereas Mediterranean chorotypes (code number 2) are third in importance as they correspond to 176 species (15.2%).

The endemic taxa are not randomly distributed within all tribes found in the Peninsula, but concentrated in particular supraspecific groups (Table 3). Orophiles and endogeous species make up the bulk of the endemic species, but some of them have a present distribution range limited to lowlands, as it happens in the genera *Broscus*, *Percus*, *Poecilus*, and *Platyderus*. The endemic taxa represent in some cases lineages exclusive of the Peninsula (*Dalyat, Apoduvalius, Henrotius, Galiciotyphlotes, Ildobates*, etc.), but most frequently are lineages living in a larger area with a more or less pronounced rate of speciation in Iberia. Some particular species are perhaps the Iberian counterpart of European or North African species (*Harpalus wagneri, Calathus granatensis*). The Balearic Islands have a low number of endemic species, most of which are cave dwellers, but there are also endemic species and subspecies inhabiting the lowlands (genera *Cicindela, Orthomus, Platyderus*).

The natural regions of the Iberian Peninsula

The number of species and subspecies varies notably between natural regions of the Iberian Peninsula (Table 2). Lowest species richness is found in the Balearic Islands, whereas the Pyrenees, the South Meseta, Catalonia, the Betic Region and the Sistema Central, are the regions with the highest numbers of recorded species. Both natural and sampling factors seem to account for these results.

In most regions, the species with a large distribution range (distribution codes 0 + 1) predomina-

te, with percentages between 40-50%. These chorotypes are more frequent in the northern half of the Peninsula and the Balearic Islands. European chorotypes (code number 2) are also more frequent in the North, always more than 10%. In the South and the islands their frequency decreases below 10%.

Mediterranean chorotypes (code number 3) have higher frequencies in the South, with percentages always higher than 25%, whereas in the North their frequency decreases to 20% or less. In the Balearic Islands they make the second main group of chorotypes (more than 30%).

Endemic taxa show the highest frequencies in the mountains: Pyrenees (36.4%), Cantabrian Mountains (33.8%), Mountains of León (32.6%), the Central Chains (28.9%) and Penibetic Mountains (26.7). This chorotype is found in low percentages in the islands, the coastal Mediterranean lowlands (Almería, Murcia, Valencia), and the Ebro Basin. Of the subendemic chorotypes only the ibero-maghrebine category makes up a significant percentage in the southern half of the Peninsula, as its frequency decreases in a SW-NE direction becoming lower than 5% towards the Central Chains and NE Mediterranean regions (Valencia and Catalonia).

Discussion

Distribution patterns in the Iberian Peninsula

The high proportion of endemic taxa is the most remarkable pattern of the Peninsula. This high percentage is also found in Anatolia (Casale & Vigna Taglianti, 1999: 41.1% of 1086 species) whereas in the Italian Peninsula is somewhat lower, about 30% (of about 1350 species; Vigna Taglianti & Casale, pers. com.). Other Mediterranean areas as Bulgaria have much lower proportions of endemic species, about 10% (total no. of species 741), according to the data indicated by Guéorguiev & Guéorguiev (1995). If subendemic taxa are added the proportion of taxa almost exclusive of the Peninsula is close to 50%.

These results agree with the hypothesis put forward by Oosterbroek & Arntzen (1992), who stated that the Iberian Peninsula has been a major centre for the origin of the Mediterranean biota since the Oligocene period. The northern half of the Peninsula (except for the river Ebro Basin) corresponds to the emerged lands since the Palaeozoic period, and thus it is not surprising that includes regions (Galicia, Cantabrian Mountains, Northern Meseta, Pyrenees, etc.) with the higher proportions of endemic elements. The southern half of the Peninsula has a recent development since the Upper Miocene (10 MY), when the western microplates between Europe and Africa became incorporated to the Iberian Meseta (Rogl & Steininger, 1983). Thus, age seems to be related to the lower amount of endemic elements in the Southern Meseta, the Betic and Penibetic Mountains, or the coastal regions (littoral of Portugal, Valencia, Murcia, etc.). The recent finding of *Dalyat mirabilis* in a cave of Almería (SE Spain), is demonstrative of the survival of an interesting paleoendemism in a stable and protected refugee. This species belongs to the tribe Promecognathini, which extant representatives are found in South Africa and North America.

In addition to age, other factors have probably influenced the high number of Iberian endemics, as are alpine tectonics and cave speciation. Mountain regions are very rich in endemic taxa. Active allopatric speciation has been favoured by the particular conditions of geographic isolation sheltered by the transversal orientation of most Iberian chains, particularly during the alternation of cold and warm periods of the late Cenozoic. The high altitudes of these chains also favours the formation of new species adapted to the different biotic and abiotic conditions that can be found from the lowlands to the 2000-3300 m range. In particular, the Pyrenees not only have favoured the formation of a rich endemic fauna but have also acted as a barrier for the dispersal of European elements into the Peninsula, thus increasing the isolation derived from its westernmost position into the Eurasiatic plate. The other transversal chains are not completely isolated due to the particular orientation of the Sistema Ibérico, which connects the northern chains with the Sistema Central and the NE Betic chains to the South. This fact explains the occurrence of endemic species and subspecies, which have a European origin in the Sistema Central, Sierra Nevada and the Sistema Ibérico as well. Conversely, some Betic or ibero-maghrebine taxa have possibly reached northern parts of Iberian using this pathway (Andújar *et al.*, 2000). Another effect of the orientation and connections of Iberian mountains is the formation of species rings that occupy two or more massifs, as it happens in genera like *Nebria, Calathus* and *Zabrus* (Ortuño, 2002).

As expected, the influence of European lineages is better appreciated in the North, where taxa such as *Carabus, Leistus, Nebria, Cryobius, Pterostichus, Steropus,* etc., have originated many endemisms. On the contrary, Mediterranean and subtropical lineages are well represented in the South, as it happens with

the genera *Styracoderus, Orthomus, Zabrus, Platyderus, Calathus, Laemostenus, Parophonus, Trymosternus* and *Brachinus* among others.

Taxa endemic to caves have speciated in most Iberian chains due the occurrence of many carbonate soils, except for the Galician-Douro region, the Sistema Central and Sierra Nevada, in which granitic soils are predominant. Some of the cave-dwellers taxa probably have an ancient origin, i.e., they are paleoendemisms. The northern half of the Iberian Peninsula has old massifs connected to the Eurasiatic plate since the separation of Laurasia and Gondwana, that allowed for the origin of lineages exclusive to the Peninsula, as are *Iberodytes, Aphoenops, Apoduvalius, Geotrechus, Hydraphaenops, Hydrotrechus, Iberotrechus, Hypotyphlus, Microtyphlus, Speleotyphlus, Troglorites, Anchomenidius,* and *Galiciotyphlotes*.

The southern half has some cave endemics that are probably of recent origin (as discussed below), as it happens with the pterostichine genus *Tinautius.* Other species may represent much older lineages, which have survived the extensive changes that happened since the Oligocene. In addition to *Dalyat mirabilis*, there are some other paleoendemisms such as *Ildobates neboti* (Zuphiini or Galeritini).

A second group of endemic geophiles is made up by species of the genera *Typhlocharis, Geocharis, Oscadytes, Microtyphlus*, etc. (and perhaps *Zariquieya*) inhabiting the soil at a moderate depth, that can be collected under large stones after a rainy season. Ortuño has rightly showed (2002) that this "superficial underground environment" (Juberthie *et al*., 1980) has a particular and very rich fauna, which has become well known in the last decade.

The endemic taxa are concentrated in particular lineages, as shown by the results of Table 2. Although most of these lineages are not exclusive of the Iberian Peninsula, this region shows a distinctive feature because most of the species are true endemisms not shared with other European regions. Penev *et al.* (2003) already pointed out this distinctness of the Iberian Peninsula in the case of the genus *Carabus*, as 23 out of the 29 species of this genus are exclusive of Iberia. This is more evident in the case of the genera *Trechus, Cryobius, Zabrus, Platyderus, Laemostenus* and *Trymosternus*. These findings agree with the hypothesis that the Iberian Peninsula has been a major centre of speciation for Mesozoic and early Cenozoic carabid lineages existing in the western side of the Eurasiatic plate.

The other groups of chorotypes are (in a decreasing proportion) that one representing taxa with large distribution areas (codes 0 + 1, 23.9%), the Mediterranean (code number 3, 15.2%), and the Europeans (10.9%). Their patterns are best considered by analysing the natural regions of the Peninsula (see below). The influence of Afrotropical (code number 4) and Saharan (code number 5) chorotypes in the Iberian Peninsula is very low, and only the afro-Mediterranean taxa (10 species) are relatively well represented. This finding suggests that the Peninsula has a typical Palearctic fauna with a poor influence from the Ethiopic and the Oriental regions.

Distribution patterns shown by the natural regions of Iberia and the Balearic Islands

A first inspection of the chorotype composition of each region shows that the species with a large distributional area, i.e., those with code numbers starting with 0 and 1, make up the highest percentage in the northern half of the Peninsula, and are only slightly overcome in some of the southern regions by the Mediterranean chorotypes (code number 3). This is a clear effect of a change in geographic scale in comparison with the whole Peninsula, as widely distributed taxa are shared by most Iberian regions whereas endemic or European taxa are more restricted to particular regions.

Mediterranean chorotypes show the highest percentages in the southern half of Iberia and the Balearic Islands. The northern Meseta and the Ebro Basin are also rich in these chorotypes, a fact that suggests that they are better adapted to the environmental conditions associated to the Mediterranean climate. Conversely, the European chorotypes (code number 2) are more frequent in the northern regions. This finding is probably due to both dispersal and adaptation to local conditions.

The percentage of endemic elements is clearly higher in the mountainous areas of the northern half, for the reasons discussed above. In the South, they are better represented in the Penibetic and Betic regions, due to the development of altitudinal gradients and the abundance of cave environments. When subendemic taxa are taken into consideration (mostly the ibero-maghrebine elements), the percentages increase notably in most southern regions, a fact that is probably related to an active faunal interchange between South Iberia and North Africa.

The patterns shown by the regions may change in the future because not all of them have been equally sampled. For example, the Cono Sur is a small area between the provinces of Cadiz and Malaga, which has been sampled by many investigators since the last 40 years, what explains the high number of recorded species. Catalonia, the Pyrenees, the

Basque country, the Galician-Douro region, the Sistema Central and Murcia are among the regions better sampled. Almería, the Algarve, the Penibetic and Betic regions, both Mesetas and the Mountains of Leon are not yet sufficiently known. Andújar *et al.* (2000) already showed that the Penibetic region and the South Iberian chains were not probably adequately sampled, after estimating the expected number of species for some mountainous areas of Iberia with the Mac Arthur & Wilson's (1967) formula. The sampling effect is not only appreciated in that the species number is lower than expected for a given area, but also in that common or widely distributed species tend to be more easily recorded.

The Balearic Islands show a higher percentage of chorotypes with higher dispersal ability, that is, those ones with code number 0 and 1. Mediterranean elements are only one third, a fact that suggest that dispersal instead adaptation to local conditions, has been the main factor for explaining the colonisation of the islands. The number of taxa exclusive to the islands is low, only 13 in Mallorca, 7 in Minorca and 3 in Ibiza. Most of them are lowland species, as cave dwellers are four in Mallorca and one in Minorca. Mallorca is probably the better-sampled island, whereas Ibiza has possibly a richer fauna not yet well known. The results of Mallorca are relatively similar to those found in Sardinia (Casale & Vigna Taglianti, 1995). In this last island there are 349 carabid species, of which 53 (12.3%) are endemic elements (7.8% in Mallorca), a third (36.7%) is due to Mediterranean chorotypes and a slightly higher percentage (37.0%) is due to chorotypes denoting a wider distribution. It is probably that the high mountains of Sardinia and its well-developed system of caves offer many suitable places for the formation of endemic species. Also, the difference in size (Mallorca has 3640 km^2 whereas Sardinia has 24089 km^2) is probably influencing the amount of endemic taxa. In Sicily the Mediterranean elements predominate (45.2%, 178 species of a total of 394: Vigna Taglianti *et al.*, 2002), whereas the percentage of species with a wider distribution pattern decreases to 29.7%. The percentage of endemic elements is low (4%). Vigna Taglianti *et al.* (2002) postulated that Pleistocene glaciations forced southwards the most termophilous species of the Apennine Peninsula, thus increasing the number of species better adapted to Mediterranean environments. The low number of endemisms is perhaps due to the lesser isolation of Sicily that has acted as a bridge between the Italian Peninsula and North Africa.

ACKNOWLEDGEMENTS

This work has been partially supported by the project "Fauna Ibérica", of the D.G.I.C.Y.T, PB95-0235. Many colleagues generously sent papers or personal records on the distribution of Iberian Carabidae: Emilio Carabajal, Ana Cárdenas, Achille Casale, Oleguer Escolà, José García Carrillo, Carles Hernando, Bernd Jaeger, Claude Jeanne, Boris M. Katayev, Vicente M. Ortuño, Miquel Palmer, Javier Pérez Valcárcel, Juan Pérez Zaballos, Ildefonso Ruiz Tapiador, José María Salgado, Ricardo Sciaky, Joachim Schmidt, Artur R. M. Serrano, Marcos Toribio, Augusto Vigna Taglianti, Eduard Vives, David Wrase and Alexandr Zamotailov. We are particularly indebted to Pepe Fernández (Fauna Ibérica project) for the search for new papers and records in the library of the Museo Nacional de Ciencias Naturales (CSIC, Madrid).

Carlos Ruiz, Carmelo Andújar and Juan Antonio Carvajal helped with calculations and ordering of data and literature.

References

Only papers cited in the text are mentioned here. Papers including distribution data of Iberian Carabidae within the 23 natural regions herewith considered will be available in an Internet page developed by http://www.mncn.csic.es/.

ANDÚJAR, A., LENCINA, J. L., RUANO, L. & SERRANO, J., 2000. *Los Caraboidea de las sierras suroccidentales de la provincia de Albacete*. Instituto de Estudios Albacetenses "Don Juan Manuel". Albacete. 134 pp.

CASALE, A. & VIGNA TAGLIANTI, A., 1995. Coleotteri Carabidi di Sardegna e delle piccole isole circumsarde, e loro significato biogeografico (Coleoptera, Carabidae). *Biogeographia*, 18: 391-427.

CASALE, A. & VIGNA TAGLIANTI, A., 1999. Caraboid beetles (excl. Cicindelidae) of Anatolia and their biogeographical significance (Coleoptera, Caraboidea). *Biogeographia*, 20: 277-406.

GUÉORGUIEV, V. B. & GUÉORGUIEV, B. V., 1995. *Catalogue of the ground beetles of Bulgaria (Coleoptera: Carabidae)*. Pensoft Publ. Sofia. 279 pp.

HŮRKA, K., 1996. *Carabidae of the Czech and Slovak Republics*. Kabourek. Zin. 565 pp.

JEANNE, C., 1965. Carabiques de la Péninsule Ibérique (2ème note). *Actes de la Société linnéenne de Bordeaux*, (Sér. A 10), 102(10): 1-34.

JEANNE, C., 1966. Carabiques de la Péninsule Ibérique (3ème note). *Actes de la Société linnéenne de Bordeaux*, (Sér. A, 7), 103 (7): 3-18.

JEANNE, C., 1967. Carabiques de la Péninsule Ibérique (4ème note). *Actes de la Société linnéenne de Bordeaux*, (Sér. A 3), 104(3): 1-24.

JEANNE, C., 1967. Carabiques de la Péninsule Ibérique (5ème note). *Actes de la Société linnéenne de Bordeaux*, , (Sér. A 10), 104(10): 1-22.

JEANNE, C., 1967. Carabiques de la Péninsule Ibérique (6ème note). *Actes de la Société linnéenne de Bordeaux*, (Sér. A 13), 104(13): 1-19.

JEANNE, C., 1968. Carabiques de la Péninsule Iberique (7ème note). *Actes de la Société linnéenne de Bordeaux*, (Sér. A 1), 105(1): 1-25

JEANNE, C., 1968. Carabiques de la Péninsule lberique (8ème note). *Actes de la Société linnéenne de Bordeaux*, (Sér. A 6), 105(6): 1-40.

JEANNE, C., 1968. Carabiques de la Péninsule Ibérique (9ème note). *Actes de la Société linnéenne de Bordeaux*, (Sér. A 8), 105(8): 1-22.

JEANNE, C., 1969. Carabiques de la Péninsule Ibérique (lére note). *Archivos del Instituto de Aclimatación*, 14: 101-124.

JEANNE, C., 1971. Carabiques de la Péninsule Ibérique (10ème note). *Bulletin de la Société linnéenne de Bordeaux*, 1(2): 5-18.

JEANNE, C., 1971. Carabiques de la Péninsule Ibérique (11ème note). *Bulletin de la Société linnéenne de Bordeaux*, 1(9): 87-96.

JEANNE, C., 1971. Carabiques de la Péninsule Ibérique (12ème note). *Bulletin de la Société linnéenne de Bordeaux*, 1(9): 203-220.

JEANNE, C., 1972. Carabiques de la Péninsule Ibérique (13ème note). *Bulletin de la Société linnéenne de Bordeaux*, 2(2): 27-42.

JEANNE, C., 1972. Carabiques de la Péninsule Ibérique (14ème note). *Bulletin de la Société linnéenne de Bordeaux*, 2(5): 99-116.

JEANNE, C., 1973. Carabiques de la Péninsule Ibérique (ler suplément). *Bulletin de la Société linnéenne de Bordeaux*, 3(1): 3-20.

JEANNE, C., 1976. Carabiques de la Péninsule Ibérique (2ème suplément). *Bulletin de la Société linnéenne de Bordeaux*, 6(7-10): 27-43.

JEANNE, C., 1978. Carabiques de la Péninsule Ibérique (3ème suplément). *Bulletin de la Société linnéenne de Bordeaux*, 8: 21-47.

JEANNE, C. & ZABALLOS, J. P., 1986. *Catalogue des Coléoptères de la Péninsule Ibérique*. Supplément au Bulletin de la Société linnéenne de Bordeaux. Bordeaux. 186 pp.

JUBERTHIE, C., DELAY, B. & BOUILLON, M., 1980. Extension du mileu souterrain en zone non-calcaire: description d'un nouveau milieu et de son peuplement par les coléoptères troglobies. *Mémoires de Biospéologie*, 7: 19-52.

LÓPEZ-MARTÍNEZ, N., 1989. Tendencias en Paleobiogeografía. El futuro de la biogeografía del pasado. In: E. Aguirre coord. *Nuevas tendencias. Vol. 10, Paleontología*. C.S.I.C. Madrid: 271-296.

MAC ARTHUR, R. H. & WILSON, E. O., 1967. *The theory of island biogeography.* Monographs on population biology, 1. Princeton University Press. Princeton. 203 pp.

MARSHALL, L. G., 1988. Land mammals and the Great American Interchange. *American Scientist*, 76: 380-388.

NOVOA, F., MARIÑO, J. & LOMBARDERO, J., 1996. Los Carabidae (Coleoptera) de los montes del Invernadeiro (NO Península Ibérica) y algunas consideraciones sobre la carabidofauna de las montañas orientales de Galicia. *Boletín de la Real Sociedad española de Historia Natural (Sección Biológica)*, 92: 167-175.

NOVOA, F., SÁEZ, M., EIROA, E. & GONZÁLEZ, J., 1989. Los Carabidae (Coleoptera) de la Sierra de Ancares (Noroeste de la Península Ibérica). *Boletín de la Real Sociedad española de Historia Natural (Sección Biológica)*, 84: 287-305.

OOSTERBROEK, P. & ARNTZEN, J. W., 1992. Area-cladograms of Circum-Mediterranean taxa in relation to Mediterranean paleogeography. *Journal of Biogeography*, 19: 3-20.

ORTUÑO, V. M., 2002. Estado de conocimiento de los artrópodos de España. In: F. D. Pineda, J. M. de Miguel, M. A. Casado y J. Montalvo (eds.). *La diversidad biológica de España*. Pearson Educación. Madrid: 209-233.

PENEV, L., CASALE, A. & TURIN, H., 2003. Biogeography. In: H. Turin, L. Penev and A. Casale (eds.). *The genus* Carabus *in Europe. A synthesis*. Co-published by Pensoft Publishers, Sofia, and European Invertebrate Survey, Leiden: 327-425.

RÖGL, F. & STEININGER, F. F., 1983. Vom Zerfall der Tethys zu Mediterran und Paratethys. *Annalen des Naturhistorisches Museums in Wien*, 85A: 135-1863.

SERRANO, J., 2003. *Catálogo de los Carabidae de la Península Ibérica e Islas Baleares.* Monografías de la Sociedad Aragonesa de Entomología 9. Zaragoza. 129 pp.

TURIN, H., 2000. *De nederlandse loopkevers. Verspreiding en Oecologie. (Coleoptera: Carabidae)*. Nederlandse Fauna 3. Nationaal Natuurhistorisch Museum Naturalis. Utrecht. 666 pp. + 16 láminas y CD-ROM.

VIGNA TAGLIANTI, A., AUDISIO, P. A., BELFIORE, C., BIONDI, M., BOLOGNA, M. A., CARPANETO, G. M., DE BIASE, A., DE FELICI, S., PIATELLA, E., RACHELI, T., ZAPPAROLI, M. & ZOIA, S., 1992. Riflessioni di gruppo sui corotipi fondomentali della fauna W-paleartica ed i particolare italiana. *Biogeographia*, 16: 159-179.

VIGNA TAGLIANTI, A., CASALE, A. & FATTORINI, S., 2002. I carabidi della Sicilia ed il loro significato biogeografico (Coleoptera, Carabidae). *Bollettino della Accademia Gioenia di Scienze Naturali*, 35(361): 435-464.

ZABALLOS, J. P. & JEANNE, C., 1994. *Nuevo catálogo de los carábidos (Coleoptera) de la Península Ibérica*. Monografías de la Sociedad Entomológica Aragonesa, 1. Zaragoza. 159 pp.

Appendix.— List of Iberian Carabidae categorised by the chorotypes indicated in Table 1. The asterisk is used in polytypic species for denoting the subspecies with the most inclusive chorotype. This last one has been selected to calculate the distribution percentages of the Iberian Peninsula as a whole.

Appendix.— Relación de Carábidos ibéricos con indicación de su corotipo, de acuerdo con las categorías señaladas en la Tabla 1. El asterisco se utiliza en las especies politípicas para indicar la subespecie que tiene el corotipo más inclusivo. Este último es el que se ha empleado para calcular los porcentajes que tienen los distintos corotipos en la península Ibérica, considerada ésta como un todo.

DISTR.	CODE	Species
		Subfamily CICINDELINAE
		Tribe Cicindelini
		Subtribe Cicindelina
WMED	3.02	1.1. Cephalota (Cassolaia) maura maura (Linné 1758)
ENDE	6.00	1.2. Cephalota (Cephalota) hispanica (Gory 1833)
NAFR	3.04	1.3. Cephalota (Taenidia) circumdata imperialis Klug 1834
ENDE	6.00	1.4. Cephalota (Taenidia) deserticoloides (Codina 1931)
NAFR	3.04	1.5. Cephalota (Taenidia) litorea goudoti Dejean 1829
WMED	3.02	2.1. Cicindela (Calomera) littoralis littoralis Fabricius 1787 *
SOER	2.04	Cicindela (Calomera) littoralis nemoralis Olivier 1790
ENDE	6.00	2.2. Cicindela (Cicindela) campestris balearica Sydow 1934
WPAL	1.03	Cicindela (Cicindela) campestris campestris Linné 1758 *
IBMG	6.03	Cicindela (Cicindela) campestris atlantis Mandl 1944
EURP	2.01	2.3. Cicindela (Cicindela) hybrida pseudoriparia Mandl 1935 *
EURP	2.01	Cicindela (Cicindela) hybrida riparia Latreille & Dejean 1822
ENDE	6.00	2.4. Cicindela (Cicindela) iberica Mandl 1935
ENDE	6.00	2.5. Cicindela (Cicindela) lagunensis Gautier des Cottes 1872
ENDE	6.00	2.6. Cicindela (Cicindela) lusitanica lusitanica Mandl 1935 *
ENDE	6.00	Cicindela (Cicindela) lusitanica silvaticoides W. Horn 1937
WMED	3.02	2.7. Cicindela (Cicindela) maroccana maroccana Fabricius 1801 *
WMED	3.02	Cicindela (Cicindela) maroccana pseudomaroccana Roeschke 1891
ENDE	6.00	2.8. Cicindela (Cicindela) sylvatica reiseri Mandl 1970
WMED	3.02	3.1. Cylindera (Cicindina) trisignata siciliensis (Horn 1891)
MEDT	3.01	Cylindera (Cicindina) trisignata trisignata Dejean 1822 *
WEUR	2.05	3.2. Cylindera (Cylindera) germanica sobrina (Gory 1833)
CAPR	6.04	3.3. Cylindera (Cylindera) paludosa (Dufour 1820)
MEDT	3.01	4.1. Lophyra (Lophyra) flexuosa flexuosa (Fabricius 1787)
AIME	4.01	5.1. Myriochila (Myriochila) melancholica melancholica (Fabricius 1798)
		Tribe Cicindelini
		SubtribeMegacephalina
TSER	1.14	6.1. Megacephala (Grammognatha) euphratica euphratica Dejean 1822
		Subfamily PAUSSINAE
		Tribe Paussini
		Subtribe Paussina
WMED	3.02	7.1. Paussus (Flagellopaussus) favieri Fairmaire 1851

DISTR.	CODE	Species
		Subfamily OMOPHRONINAE
		Tribe Omophronini
WPAL	1.03	8.1. Omophron (Omophron) limbatum (Fabricius 1776)
ENDE	6.00	8.2. Omophron (Phrator) variegatum variegatum Olivier 1811
		Subfamily CARABINAE
		Tribe Carabini
		SubtribeCarabina
EUME	1.12	9.1. Calosoma (Calosoma) inquisitor inquisitor (Linnaeus 1758)
CAEM	1.06	9.2. Calosoma (Calosoma) sycophanta (Linnaeus 1758)
SASI	5.04	9.3. Calosoma (Caminara) olivieri Dejean 1831
WPAL	1.03	9.4. Calosoma (Campalita) maderae (Fabricius 1775)
EURP	2.01	10.1. Carabus (Archicarabus) nemoralis prasinotinctus Heyden 1880
ENDE	6.00	10.2. Carabus (Archicarabus) pseudomonticola Vaucher de Lapouge 1908
ENDE	6.00	10.3. Carabus (Archicarabus) steuartii Deyrolle 1852
ASER	1.04	10.4. Carabus (Carabus) granulatus granulatus Linnaeus 1758
CEUR	2.03	10.5. Carabus (Chaetocarabus) intricatus Linnaeus 1761
CEUR	2.03	10.6. Carabus (Chrysocarabus) auronitens punctatoauratus Germar 1826
ENDE	6.00	10.7. Carabus (Chrysocarabus) lineatus estrellanus J. Serrano 2003
ENDE	6.00	Carabus (Chrysocarabus) lineatus lateralis Chevrolat 1840
ENDE	6.00	Carabus (Chrysocarabus) lineatus lineatus Dejean 1826 *
ENDE	6.00	Carabus (Chrysocarabus) lineatus salmantinus C. Bolívar 1922
ENDE	6.00	Carabus (Chrysocarabus) lineatus troberti Kraatz 1860
ENDE	6.00	10.8. Carabus (Chrysocarabus) rutilans perignitus Reitter 1896
ENDE	6.00	Carabus (Chrysocarabus) rutilans rutilans Dejean 1826 *
ENDE	6.00	10.9. Carabus (Chrysocarabus) splendens Olivier 1790
ENDE	6.00	10.10. Carabus (Ctenocarabus) galicianus Gory 1839
ENDE	6.00	10.11. Carabus (Eucarabus) deyrollei Gory 1839
ENDE	6.00	10.12. Carabus (Iniopachus) auriculatus auriculatus Putzeys 1872 *
ENDE	6.00	Carabus (Iniopachus) auriculatus ubinensis (Puisségur 1955)
ENDE	6.00	10.13. Carabus (Iniopachus) pyrenaeus costulus Géhin 1885
ENDE	6.00	Carabus (Iniopachus) pyrenaeus jeanneli Deuve 1994
ENDE	6.00	Carabus (Iniopachus) pyrenaeus pyrenaeus Audinet-Serville 1821 *
ENDE	6.00	10.14. Carabus (Macrothorax) morbillosus macilentus Vaucher de Lapouge 1899
ENDE	6.00	10.15. Carabus (Macrothorax) rugosus baeticus Deyrolle 1852 *
ENDE	6.00	Carabus (Macrothorax) rugosus celtibericus Germar 1824
ENDE	6.00	10.16. Carabus (Megodontus) violaceus asturiensis Born 1925
ENDE	6.00	Carabus (Megodontus) violaceus aurichalceus Kraatz 1879
ENDE	6.00	Carabus (Megodontus) violaceus fulgens Charpentier 1925 *
ENDE	6.00	Carabus (Megodontus) violaceus ibericus (Jeanne 1976)
ENDE	6.00	10.17. Carabus (Mesocarabus) dufourii Dejean 1831

DISTR.	CODE	Species
ENDE	6.00	10.18. Carabus (Mesocarabus) lusitanicus albarracinus Ganglbauer 1886
ENDE	6.00	Carabus (Mesocarabus) lusitanicus baguenai Breuning 1926
ENDE	6.00	Carabus (Mesocarabus) lusitanicus bolivari Breuning 1926
ENDE	6.00	Carabus (Mesocarabus) lusitanicus brevis Dejean 1826
ENDE	6.00	Carabus (Mesocarabus) lusitanicus complanatus Dejean 1826
ENDE	6.00	Carabus (Mesocarabus) lusitanicus helluo Dejean 1826
ENDE	6.00	Carabus (Mesocarabus) lusitanicus latus Dejean 1826
ENDE	6.00	Carabus (Mesocarabus) lusitanicus lusitanicus Fabricius 1810 *
ENDE	6.00	Carabus (Mesocarabus) lusitanicus trabuccarius Fairmaire 1857
ENDE	6.00	10.19. Carabus (Mesocarabus) macrocephalus barcelecoanus Vaucher de Lapouge 1924
ENDE	6.00	Carabus (Mesocarabus) macrocephalus cantabricus Chevrolat 1840
ENDE	6.00	Carabus (Mesocarabus) macrocephalus macrocephalus Dejean 1826 *
ENDE	6.00	Carabus (Mesocarabus) macrocephalus morodeñ Breuning 1926
ENDE	6.00	10.20. Carabus (Mesocarabus) problematicus planiusculus Haury 1885
ENDE	6.00	10.21. Carabus (Morphocarabus) monilis subpyrenaeus Barthe 1924
ENDE	6.00	10.22. Carabus (Oreocarabus) amplipennis amplipennis Lapouge 1924 *
ENDE	6.00	Carabus (Oreocarabus) amplipennis getschmanni Vaucher de Lapouge 1924
ENDE	6.00	Carabus (Oreocarabus) amplipennis pseudosteuarti Vaucher de Lapouge 1924
ENDE	6.00	10.23. Carabus (Oreocarabus) ghilianii ghilianii Laferté 1874 *
ENDE	6.00	Carabus (Oreocarabus) ghilianii negrei Breuning 1966
ENDE	6.00	10.24. Carabus (Oreocarabus) guadarramus Laferté 1847
ENDE	6.00	10.25. Carabus (Rhabdotocarabus) melancholicus costatus Germar 1824 *
ENDE	6.00	Carabus (Rhabdotocarabus) melancholicus submeridionalis Breuning 1975
WEUR	2.05	10.26. Carabus (Tachypus) auratus auratus Linnaeus 1761
WEUR	2.05	10.27. Carabus (Tachypus) cancellatus carinatus Charpentier 1825
ENDE	6.00	10.28. Carabus (Tachypus) cristoforii Spence 1823
ENDE	6.00	10.29. Carabus (Tomocarabus) convexus pyrenaeicola Csiki 1927
		Tribe Cychrini
		Subtribe Cychrina
EURP	2.01	11.1. Cychrus caraboides caraboides (Linnaeus 1758)
ENDE	6.00	11.2. Cychrus dufouri Chaudoir 1869
ENDE	6.00	11.3. Cychrus spinicollis ibericus Jeanne 1976
ENDE	6.00	Cychrus spinicollis spinicollis Dufour 1820 *
		Subfamily NEBRINAE
		Tribe Nebriini
MEDT	3.01	12.1. Eurynebria complanata (Linnaeus 1767)
ENDE	6.00	13.1. Leistus (Leistus) acutangulus Perrault 1979
ENDE	6.00	13.2. Leistus (Leistus) angulatus Piochard de la Brûlerie 1872
ENDE	6.00	13.3. Leistus (Leistus) angusticollis Dejean 1826
ENDE	6.00	13.4. Leistus (Leistus) barnevillei Chaudoir 1867
ENDE	6.00	13.5. Leistus (Leistus) constrictus Schaufuss 1862
WMED	3.02	13.6. Leistus (Leistus) crenatus Fairmaire 1855
EURP	2.01	13.7. Leistus (Leistus) ferrugineus (Linnaeus 1758)
EUME	1.12	13.8. Leistus (Leistus) fulvibarbis fulvibarbis Dejean 1826
ALPI	2.07	13.9. Leistus (Leistus) nitidus (Duftschmid 1812)
ENDE	6.00	13.10. Leistus (Leistus) oopterus Chaudoir 1861
ENDE	6.00	13.11. Leistus (Leistus) starkei Assmann 1997
ENDE	6.00	13.12. Leistus (Leistus) valcarceli Wrase, Ruiz-Tapiador & Zaballos 1998
WMED	3.02	13.13. Leistus (Pogonophorus) expansus Putzeys 1874
CAPR	6.04	13.14. Leistus (Pogonophorus) punticeps Fairmaire & Laboulbène 1854
ENDE	6.00	13.15. Leistus (Pogonophorus) pyrenaeus Kraatz 1863
WEUR	2.05	13.16. Leistus (Pogonophorus) spinibarbis spinibarbis (Fabricius 1775)
ALPI	2.07	14.1. Nebria (Boreonebria) rufescens rufescens (Ström 1768)
ALPI	2.07	14.2. Nebria (Eunebria) jockischii jockischii Strum 1815 *
ENDE	6.00	Nebria (Eunebria) jockischii orensis Breit 1914
ENDE	6.00	Nebria (Eunebria) jockischii bolivari Jeanne 1966
ALPI	2.07	14.3. Nebria (Eunebria) picicornis (Fabricius 1801)
WMED	3.02	14.4. Nebria (Nebria) andalusia Rambur 1837
ENDE	6.00	14.5. Nebria (Nebria) andarensis C. Bolívar 1923
ENDE	6.00	14.6. Nebria (Nebria) asturiensis Bruneau de Miré 1964
ENDE	6.00	14.7. Nebria (Nebria) bellotii Franz 1954
SIER	1.05	14.8. Nebria (Nebria) brevicollis (Fabricius 1792)
ENDE	6.00	14.9. Nebria (Nebria) lafresnayei cantabrica Bruneau de Miré 1964
ENDE	6.00	Nebria (Nebria) lafresnayei ferruginipes Pic 1903
ENDE	6.00	Nebria (Nebria) lafresnayei lafresnayei Audinet-Serville 1821 *
ENDE	6.00	14.10. Nebria (Nebria) leonensis Assmann, Wrase & Zaballos 2000
ENDE	6.00	14.11. Nebria (Nebria) pazi Seidlitz 1867
ENDE	6.00	14.12. Nebria (Nebria) punctatostriata Schaufuss 1872
ENDE	6.00	14.13. Nebria (Nebria) olivieri Dejean 1826
EURP	2.01	14.14. Nebria (Nebria) salina Fairmaire & Laboulbène 1856
ENDE	6.00	14.15. Nebria (Nebria) sobrina sinuata Bruneau de Miré 1964
ENDE	6.00	Nebria (Nebria) sobrina sobrina Schaufuss 1862 *
ENDE	6.00	Nebria (Nebria) sobrina ubinensis Bruneau de Miré 1964
ENDE	6.00	14.16. Nebria (Nebria) urbionensis Arribas 1991
ENDE	6.00	14.17. Nebria (Nebria) vuillefroyi Chaudoir 1866
BERI	6.01	14.18. Nebria (?) rubicunda (Quensel 1806)
ENDE	6.00	14.19. Nebria (?) varvolxemi Putzeys 1874
		Tribe Notiophilini
EURP	2.01	15.1. Notiophilus aesthuans Motschulsky 1864
SIER	1.05	15.2. Notiophilus aquaticus (Linnaeus 1758)
SIER	1.05	15.3. Notiophilus biguttatus (Fabricius 1779)
WMED	3.02	15.4. Notiophilus geminatus Dejean & Boisduval 1830
SIER	1.05	15.5. Notiophilus germinyi Fauvel 1863
WMED	3.02	15.6. Notiophilus marginatus Géné 1839
SIER	1.05	15.7. Notiophilus palustris (Duftschmid 1812)
WMED	3.02	15.8. Notiophilus quadripunctatus Dejean 1826
SIER	1.05	15.9. Notiophilus rufipes Curtis 1829
MEDT	3.01	15.10. Notiophilus substriatus Waterhouse 1833
		Subfamily ELAPHRINAE
		Tribe Elaphrini
IBMG	6.03	16.1. Elaphrus (Elaphrus) lheritieri Antoine 1947
SIER	1.05	16.2. Elaphrus (Elaphrus) riparius (Linnaeus 1758)
ENDE	6.00	16.3. Elaphrus (Neoelaphrus) pyrenoeus Motschulsky 1850
		Subfamily LORICERINAE
		Tribe Loricerini
HOLA	1.01	17.1. Loricera pilicornis pilicornis (Fabricius 1775)
		Subfamily SIAGONINAE
		Tribe Siagonini
IBMG	6.03	18.1. Siagona dejeani Rambur 1837
INME	4.03	18.2. Siagonaeuropaeaeuropaea Dejean 1826
IBMG	6.03	18.3. Siagona jenissoni Dejean 1826

DISTR.	CODE	Species
		Subfamily PROMECOGNATHINAE
		Tribe Dalyatini
ENDE	6.00	19.1. Dalyat mirabilis Mateu 2002
		Subfamily SCARITINAE
		Tribe Clivinini
TUER	1.10	20.1. Clivina (Clivina) collaris sanguinea Dejean 1825
HOLA	1.01	20.2. Clivina (Clivina) fossor fossor (Linnaeus 1758)
TUME	1.11	20.3. Clivina (Clivina) ypsilon Dejean 1829
ENDE	6.00	21.1. Iberodytes ramiroi Jeannel 1949
ENDE	6.00	22.1. Reicheia (Catalanodytes) bellesi (Lagar 1971)
ENDE	6.00	22.2. Reicheia (Reicheia) balearica Español 1974
ENDE	6.00	22.3. Reicheia (Reicheia) lucifuga Saulcy 1862
ENDE	6.00	22.4. Reicheia (Typhloreicheia) nevesi (Jeannel 1957)
ENDE	6.00	22.5. Reicheia (Typhloreicheia) zoiai (Sciaky 1989)
		Tribe Dyschiriini
ASER	1.04	23.1. Dyschiriodes (Dyschiriodes) aeneus aeneus (Dejean 1825)
TEUM	1.09	23.2. Dyschiriodes (Dyschiriodes) agnatus (Motschulsky 1844)
NAFR	3.04	23.3. Dyschiriodes (Dyschiriodes) angusticollis (Putzeys 1866)
TSER	1.14	23.4. Dyschiriodes (Dyschiriodes) apicalis (Putzeys 1846)
MESI	3.05	23. 5. Dyschiriodes (Dyschiriodes) auriculatus auriculatus (Wollaston 1867)
SASI	5.04	23.6. Dyschiriodes (Dyschiriodes) clypeatus (Putzeys 1866)
CAER	1.07	23.7. Dyschiriodes (Dyschiriodes) cylindricus (Dejean 1825)
TUME	1.11	23.8. Dyschiriodes (Dyschiriodes) chalybeus chalybeus (Putzeys 1846)
MEDT	3.01	23.9. Dyschiriodes (Dyschiriodes) longipennis (Putzeys 1866)
WMED	3.02	23.10. Dyschiriodes (Dyschiriodes) luticola liguriensis (Putzeys 1873)
MEDT	3.01	23.11. Dyschiriodes (Dyschiriodes) macroderus breiti (G. Müller 1922)
MEDT	3.01	23.12. Dyschiriodes (Dyschiriodes) minutus (Dejean 1825)
WMED	3.02	23.13. Dyschiriodes (Dyschiriodes) punctatus (Dejean 1825)
CAEM	1.06	23.14. Dyschiriodes (Dyschiriodes) salinus striatopunctatus (Putzeys 1846)
NAFR	3.04	23.15. Dyschiriodes (Dyschiriodes) subcylindricus subcylindricus (Motschulsky 1849)
IBMG	6.03	23.16. Dyschiriodes (Eudyschirius) antoinei (Puel 1925)
WMED	3.02	23.17. Dyschiriodes (Eudyschirius) fulvipes fulvipes (Dejean 1825) *
WMED	3.02	Dyschiriodes (Dyschiriodes) fulvipes rufoaeneus (Chaudoir 1843)
ENDE	6.00	23.18. Dyschiriodes (Eudyschirius) gracilis ibericus Fedorenko 1996
ASER	1.04	23.19. Dyschiriodes (Eudyschirius) globosus (Herbst 1783)
WMED	3.02	23.20. Dyschiriodes (Eudyschirius) importunus inmarginatus (Putzeys 1866)
WEUR	2.05	23.21. Dyschiriodes (Eudyschirius) semistriatus (Dejean 1825)
MEDT	3.01	23.22. Dyschiriodes (Paradyschirius) parallelus ruficornis (Putzeys 1846)
SOER	2.04	23.23. Dyschiriodes (Paradyschirius) substriatus priscus (G. Müller 1922)
WMED	3.02	24.1. Dyschirius numidicus Putzeys 1846
EURP	2.01	24.2. Dyschirius thoracicus (Rossi 1790)
ENDE	6.00	25.1. Reicheiodes (Iberiodes) microphtalmus assmanni Balkenohl 1999
ENDE	6.00	Reicheiodes (Iberiodes) microphtalmus microphtalmus (Heyden 1870) *
		Tribe Scaritini
AFME	4.02	26.1. Distichus (Distichus) planus (Bonelli 1813)
MEDT	3.01	27.1. Scarites (Parallelomorphus) laevigatus Fabricius 1792
CAME	1.08	27.2. Scarites (Parallelomorphus) terricola terricola Bonelli 1813
WMED	3.02	27.3. Scarites (Scallophorites) buparius (Forster 1771)
WMED	3.02	27.4. Scarites (Scallophorites) cyclops Crotch 1871
TUME	1.11	27.5. Scarites (Scarites) procerus eurytus Fischer 1828
WMED	3.02	27.6. Scarites (Scarites) impressus Dejean 1831
		Subfamily RHYSODINAE Laporte de Castelnau 1840
		Tribe Rhysodini
EURP	2.01	28.1. Rhysodes sulcatus (Fabricius 1787)
		Subfamily BROSCINAE Hope 1838
		Tribe Broscini
EURP	2.01	29.1. Broscus cephalotes (Linnaeus 1758)
ENDE	6.00	29.2. Broscus insularis Piochard de la Brûlerie 1867
ENDE	6.00	29.3. Broscus uhagoni C. Bolívar 1912
		Subfamily APOTOMINAE LeConte 1853
		Tribe Apotomini
WMED	3.02	30.1. Apotomus clypeonitens clypeonitens G. Müller 1943
TUME	1.11	30.2. Apotomus rufithorax Pecchioli 1837
AFME	4.02	30.3. Apotomus rufus (Rossi 1790)
		Subfamily PSYDRINAE LeConte 1856
		Tribe Psydrini
HOLA	1.01	31.1. Nomius pygmaeus (Dejean 1831)
		Subfamily TRECHINAE Bonelli 1813
		Tribe Trechini
		Subtribe Aepina Fowler 1887
ATLA	3.06	32.1. Aepopsis robinii robinii (Laboulbène 1849)
ENDE	6.00	33.1. Aepus gallaecus Jeannel 1926
		Subtribe Perileptina Jeannel 1922
EUME	1.12	34.1. Perileptus (Perileptus) areolatus areolatus (Creutzer 1799)
ENDE	6.00	34.2. Perileptus (Perileptus) barberae Ortuño 1991
		Subtribe Trechina
ENDE	6.00	35.1. Aphoenops (Aphoenops) abodiensis Dupré 1988
ENDE	6.00	35.2. Aphoenops (Aphoenops) catalonicus Escolà & Cancio 1983
ENDE	6.00	35.3. Aphoenops (Aphoenops) loubensi loubensi Jeannel 1953
ENDE	6.00	35.4. Aphoenops (Aphoenops) mensioni Lagar 1976
ENDE	6.00	35.5. Aphoenops (Aphoenops) ochsi aezcoensis Dupré 1988
ENDE	6.00	Aphoenops (Aphoenops) ochsi cabidochei Coiffait 1959
ENDE	6.00	Aphoenops (Aphoenops) ochsi ochsi L. Gaudin 1925 *
ENDE	6.00	Aphoenops (Aphoenops) ochsi orbaraensis Dupré 1988
ENDE	6.00	35.6. Aphoenops (Aphoenops) orionis meridionalis L. Gaudin 1925
ENDE	6.00	35.7. Aphoenops (Aphoenops) valleti Casale & Genest 1986
ENDE	6.00	35.8. Aphoenops (Cephalaphaenops) eskualduna Coiffait 1959
ENDE	6.00	35.9. Aphoenops (Cerbaphaenops) hidalgoi Español & Comas 1985
ENDE	6.00	35.10. Aphoenops (Geaphaenops) ludovici A. Gaudin 1935

DISTR.	CODE	Species
ENDE	6.00	36.1. Apoduvalius (Apoduvalius) aphaenopsianus Español & E. Vives 1983
ENDE	6.00	36.2. Apoduvalius (Apoduvalius) asturiensis Salgado 1991
ENDE	6.00	36.3. Apoduvalius (Apoduvalius) champagnati Salgado 1991
ENDE	6.00	36.4. Apoduvalius (Apoduvalius) drescoi Jeannel 1953
ENDE	6.00	36.5. Apoduvalius (Apoduvalius) espanoli Salgado 1996
ENDE	6.00	36.6. Apoduvalius (Apoduvalius) franzi Jeannel 1958
ENDE	6.00	36.7. Apoduvalius (Apoduvalius) lecoqi Deuve 1991
ENDE	6.00	36.8. Apoduvalius (Apoduvalius) naloni Salgado 1993
ENDE	6.00	36.9. Apoduvalius (Apoduvalius) negrei Jeannel 1953
ENDE	6.00	36.10. Apoduvalius (Apoduvalius) purroyi galicianus Salgado 1993
ENDE	6.00	Apoduvalius (Apoduvalius) purroyi purroyi Salgado 1987 *
ENDE	6.00	36.11. Apoduvalius (Apoduvalius) salgadoi Carabajal, García-Carrillo & Rodríguez-Fernández 2002
ENDE	6.00	36.12. Apoduvalius (Apoduvalius) serrae E. Vives 1976
ENDE	6.00	36.13. Apoduvalius (Trichapoduvalius) albericha e Español 1971
ENDE	6.00	36.14. Apoduvalius (Trichapoduvalius) leonensis Salgado & Ortuño 1998
ENDE	6.00	37.1. Duvalius (Duvalius) balearicus Henrot 1964
ENDE	6.00	37.2. Duvalius (Duvalius) berthae berthae (Jeannel 1910) *
ENDE	6.00	Duvalius (Duvalius) berthae vilasecai (Zariquiey 1920)
ENDE	6.00	37.3. Duvalius (Trechopsis) ferreresi (Lagar 1976)
ENDE	6.00	38.1. Geotrechus (Geotrechidius) puigmalensis (Lagar 1981)
ENDE	6.00	38.2. Geotrechus (Geotrechidius) seijasi Español 1969
ENDE	6.00	38.3. Geotrechus (Geotrechidius) ubachi Español 1965
ENDE	6.00	38.4. Geotrechus (Geotrechus) dequaei Dupré 1988
ENDE	6.00	38.5. Geotrechus (Geotrechus) dumonti Español 1977
ENDE	6.00	38.6. Geotrechus (Geotrechus) picanyoli Español & Escolá 1981
ENDE	6.00	39.1. Hydraphaenops alfambrai Lagar, 1979
ENDE	6.00	39.2. Hydrapahenops galani Español 1968
ENDE	6.00	39.3. Hydraphaenops penacollaradensis Dupré 1991
ENDE	6.00	39.4. Hydraphaenops sobrarbensis Lagar & Hernando 1987
ENDE	6.00	39.5. Hydraphaenops vasconicus delicatulus Coiffait 1962
ENDE	6.00	40.1. Hydrotrechus cantabricus Carabajal, Gracía & Rodríguez 1999
ENDE	6.00	41.1. Iberotrechus bolivari (Jeannel 1913)
ENDE	6.00	42.1. Paraphaenops breulianus (Jeannel 1916)
SIER	1.05	43.1. Trechoblemus micros (Herbst 1784)
ENDE	6.00	44.1. Trechus (Trechus) abeillei Pandellé 1872
ENDE	6.00	44.2. Trechus (Trechus) alicantinus Español 1971
ENDE	6.00	44.3. Trechus (Trechus) angusticollis angusticollis Kiesenwetter 1858 *
ENDE	6.00	Trechus (Trechus) angusticollis mutatus Bedel 1876
ENDE	6.00	44.4. Trechus (Trechus) apoduvaliensis Salgado & Ortuño 1998
ENDE	6.00	44.5. Trechus (Trechus) arribasi Jeanne 1988
ENDE	6.00	44.6. Trechus (Trechus) aubryi Coiffait 1953
ENDE	6.00	44.7. Trechus (Trechus) barnevillei Pandellé 1867
ENDE	6.00	44.8. Trechus (Trechus) barratxinai Español 1971
ENDE	6.00	44.9. Trechus (Trechus) baztanensis Dupré 1991
ENDE	6.00	44.10. Trechus (Trechus) beltrani Toribio 1990
ENDE	6.00	44.11. Trechus (Trechus) beusti (Schaufuss 1862)
ENDE	6.00	44.12. Trechus (Trechus) bordei fagniezi Colas & A. Gaudin 1935 *
ENDE	6.00	Trechus (Trechus) bordei occidentalis Colas & A. Gaudin 1935
ENDE	6.00	Trechus (Trechus) bordei velatensis Colas & A. Gaudin 1935
ENDE	6.00	44.13. Trechus (Trechus) breuili Jeannel 1913
ENDE	6.00	44.14. Trechus (Trechus) carrilloi Toribio & Rodriguez 1997
ENDE	6.00	44.15. Trechus (Trechus) ceballosi Mateu 1953
ENDE	6.00	44.16 Trechus (Trechus) comasi Hernando 2002
ATLA	3.06	44.17. Trechus (Trechus) cuniculorum Méquignon 1921
ENDE	6.00	44.18. Trechus (Trechus) dieckii Putzeys 1860
ENDE	6.00	44.19. Trechus (Trechus) distigma Kiesenwetter 1851
ENDE	6.00	44.20. Trechus (Trechus) distinctus aragonicus Jeannel 1931 *
ENDE	6.00	Trechus (Trechus) distinctus colasianus Mateu 1952
ENDE	6.00	Trechus (Trechus) distinctus negrei Mateu 1950
ENDE	6.00	44.21. Trechus (Trechus) escalerae Abeille 1903
ENDE	6.00	44.22. Trechus (Trechus) fulvus andalusiacus Jeannel 1927
ENDE	6.00	Trechus (Trechus) fulvus cephalotes Putzeys 1870
WEUR	2.05	Trechus (Trechus) fulvus fulvus Dejean 1831 *
ENDE	6.00	Trechus (Trechus) fulvus nevadensis Jeanne 1967
ENDE	6.00	Trechus (Trechus) fulvus primigenius Jeannel 1920
ENDE	6.00	Trechus (Trechus) fulvus troglodytes Jeannel 1920
ENDE	6.00	Trechus (Trechus) fulvus vemeri Jeannel 1920
ENDE	6.00	44.23. Trechus (Trechus) gallaecus Jeannel 1921
ENDE	6.00	44.24. Trechus (Trechus) gloriensis Jeanne 1970
ENDE	6.00	44.25. Trechus (Trechus) grenieri aulaensis Aubry 1981 *
ENDE	6.00	Trechus (Trechus) grenieri ruteri Colas & A. Gaudin 1935
ENDE	6.00	Trechus (Trechus) grenieri uhagoni Crotch 1869
ENDE	6.00	44.26. Trechus (Trechus) jeannei Sciaky 1988
ENDE	6.00	44.27. Trechus (Trechus) kricheldorffi Wagner 1913
ENDE	6.00	44.28. Trechus (Trechus) lallemantii Fairmaire 1858
ENDE	6.00	44.29. Trechus (Trechus) latebricola aranensis Jeannel 1921 *
ENDE	6.00	Trechus (Trechus) latebricola pinguis Kiesenwetter 1850
ENDE	6.00	44.30. Trechus (Trechus) lusitanicus Jeannel 1921
ENDE	6.00	44.31. Trechus (Trechus) machadoi Jeannel 1941
ENDE	6.00	44.32. Trechus (Trechus) marcilhaci Pham 1987
ENDE	6.00	44.33. Trechus (Trechus) martinezi Jeannel 1927
ENDE	6.00	44.34. Trechus (Trechus) meregallii Casale 1981
ENDE	6.00	44.35. Trechus (Trechus) navaricus boneti Dupré 1991
ENDE	6.00	44.36. Trechus (Trechus) obtusus asturicus Jeannel 1921
EUME	1.12	Trechus (Trechus) obtusus obtusioides Jeannel 1927 *
ENDE	6.00	Trechus (Trechus) obtusus renati Jeannel 1922
ENDE	6.00	44.37. Trechus (Trechus) ortizi Español 1970
ENDE	6.00	44.38. Trechus (Trechus) pecignai Toribio 1992
ENDE	6.00	44.39. Trechus (Trechus) pecoudii pecoudii Colas & A. Gaudin 1935 *
ENDE	6.00	Trechus (Trechus) pecoudii trulheti Coiffait 1952
ENDE	6.00	Trechus (Trechus) pecoudii vandeli Coiffait 1952
ENDE	6.00	44.40. Trechus (Trechus) pieltaini Jeannel 1920
ENDE	6.00	44.41. Trechus (Trechus) planipennis Rosenhauer 1856
ENDE	6.00	44.42. Trechus (Trechus) pyrenaeus andorranus Jeanne 1972 *
ENDE	6.00	Trechus (Trechus) pyrenaeus carlittensis Jeanne 1970
ENDE	6.00	Trechus (Trechus) pyrenaeus puigmalensis Jeanne 1976
PALE	1.02	44.43. Trechus (Trechus) quadristriatus (Schrank 1781)
ENDE	6.00	44.44. Trechus (Trechus) rufulus Dejean 1831
ENDE	6.00	44.45. Trechus (Trechus) saxicola desbordesi A. Gaudin 1935
ENDE	6.00	Trechus (Trechus) saxicola saxicola Putzeys 1870 *
ENDE	6.00	44.46. Trechus (Trechus) schaufussi algarvensis Jeanne 1985
ENDE	6.00	Trechus (Trechus) schaufussi bejarensis Jeannel 1927

DISTR.	CODE	Species
ENDE	6.00	Trechus (Trechus) schaufussi oribates A. Gaudin 1935
ENDE	6.00	Trechus (Trechus) schaufussi oscensis Jeanne 1985
ENDE	6.00	Trechus (Trechus) schaufussi pandellei Putzeys 1870
ENDE	6.00	Trechus (Trechus) schaufussi schaufussi Putzeys 1870 *
ENDE	6.00	Trechus (Trechus) schaufussi vivesi Jeanne 1976
ENDE	6.00	44.47. Trechus (Trechus) sharpi Jeannel 1921
ENDE	6.00	44.48. Trechus (Trechus) suturalis Putzeys 1870
ENDE	6.00	44.49. Trechus (Trechus) tingitanus tingitanus Putzeys 1870
		Subtribe Trechodina Jeannel 1926
ENDE	6.00	45.1. Thalassophilus breuili Jeannel 1926
EURP	2.01	45.2. Thalassophilus longicornis (Sturm 1825)
		Tribe Bembidiini Stephens 1827
		Subtribe Anillina Jeannel 1937
ENDE	6.00	46.1. Anillus convexus Saulcy 1864
ENDE	6.00	47.1. Aphaenotyphlus alegrei Español & Comas 1985
ENDE	6.00	48.1. Geocharis amicorum Zaballos 1997
ENDE	6.00	48.2. Geocharis boieiroi A. Serrano & Aguiar 2001
ENDE	6.00	48.3. Geocharis cordubensis (Dieck 1869)
ENDE	6.00	48.4. Geocharis estremozensis Serrano & Aguiar 2003
ENDE	6.00	48.5. Geocharis falcipenis Zaballos & Jeanne 1987
ENDE	6.00	48.6. Geocharis femoralis Coiffait 1969
ENDE	6.00	48.7. Geocharis grandolensis A. Serrano & Aguiar 2000
ENDE	6.00	48.8. Geocharis iborensis Zaballos 1990
ENDE	6.00	48.9. Geocharis julianae Zaballos 1989
ENDE	6.00	48.10. Geocharis korbi (Ganglbauer 1900)
ENDE	6.00	48.11. Geocharis leoni Zaballos 1998
ENDE	6.00	48.12. Geocharis monfortensis A. Serrano & Aguiar 2000
ENDE	6.00	48.13. Geocharis moscatelus A. Serrano & Aguiar 2001
ENDE	6.00	48.14. Geocharis olisipensis (Schatzmayr 1936)
ENDE	6.00	48.15. Geocharis portalegrensis A. Serrano & Aguiar 2001
ENDE	6.00	48.16. Geocharis ruiztapiadori Zaballos 1997
ENDE	6.00	48.17. Geocharis sacarroi Serrano & Aguiar 2003
ENDE	6.00	48.18. Geocharis saldanhai A. Serrano & Aguiar 2001
ENDE	6.00	48.19. Geocharis submersus Serrano & Aguiar 2003
ENDE	6.00	49.1. Hypotyphlus andorranus Español & Comas 1984
ENDE	6.00	49.2. Hypotyphlus guadarramus (Ehlers 1883)
ENDE	6.00	49.3. Hypotyphlus huetei Ortuño 1997
ENDE	6.00	49.4. Hypotyphlus lidiae Hernando & Fresneda 1993
ENDE	6.00	49.5. Hypotyphlus navaricus (Coiffait 1958)
ENDE	6.00	49.6. Hypotyphlus pandellei (Saulcy 1867)
ENDE	6.00	49.7. Hypotyphlus ribagorzanus (C. Bolívar 1919)
ENDE	6.00	49.8. Hypotyphlus sotilloi Español 1971
ENDE	6.00	50.1. Iberanillus vinyasi Español 1971
ENDE	6.00	51.1. Microtyphlus bateti Hernando 2000
ENDE	6.00	51.2. Microtyphlus canovasae Toribio & Beltrán 1993
ENDE	6.00	51.3. Microtyphlus fideli Viñolas & Escolà 1999
ENDE	6.00	51.4. Microtyphlus ganglbaueri (Breit 1908)
ENDE	6.00	51.5. Microtyphlus menorquensis Coiffait 1961
ENDE	6.00	51.6. Microtyphlus schaumi (Saulcy 1863)
ENDE	6.00	51.7. Microtyphlus serratensis Coiffait 1958
ENDE	6.00	51.8. Microtyphlus torressalai Coiffait 1958
ENDE	6.00	51.9. Microtyphlus xaxarsi Zariquiey 1919
ENDE	6.00	51.10. Microtyphlus zariquieyi C. Bolívar 1916
ENDE	6.00	52.1. Speleotyphlus aurouxi (Español 1966)
ENDE	6.00	52.2. Speleotyphlus comasi J. Vives, O. Escolà & E. Vives 2002
ENDE	6.00	52.3. Speleotyphlus fadriquei Español 1999
ENDE	6.00	52.4. Speleotyphlus jusmeti (Español 1971)
ENDE	6.00	52.5. Speleotyphlus virgilii J. Vives, O. Escolà & E. Vives 2002
ENDE	6.00	53.1. Typhlocharis aguirrei Zaballos & Banda 2001
ENDE	6.00	53.2. Typhlocharis algarvensis Coiffait 1971
ENDE	6.00	53.3. Typhlocharis armata Coiffait 1968
ENDE	6.00	53.4. Typhlocharis atienzai Zaballos & Ruiz-Tapiador 1997
ENDE	6.00	53.5. Typhlocharis baetica Ehlers 1883
ENDE	6.00	53.6. Typhlocharis bazi Ortuño 2000
ENDE	6.00	53.7. Typhlocharis belenae Zaballos 1983
ENDE	6.00	53.8. Typhlocharis besucheti Vigna-Taglianti 1972
ENDE	6.00	53.9. Typhlocharis bullaquensis Zaballos & Ruiz-Tapiador 1997
ENDE	6.00	53.10. Typhlocharis carmenae Zaballos & Ruíz-Tapiador 1994
ENDE	6.00	53.11. Typhlocharis carpetana Zaballos 1989
ENDE	6.00	53.12. Typhlocharis diecki Ehlers 1883
ENDE	6.00	53.13. Typhlocharis elenae Serrano & Aguiar, 2002
ENDE	6.00	53.14. Typhlocharis estrellae Zaballos & Ruiz-Tapiador 1997
ENDE	6.00	53.15. Typhlocharis fancelloi Magrini 2000
ENDE	6.00	53.16. Typhlocharis farinosae Zaballos & Ruiz-Tapiador 1997
ENDE	6.00	53.17. Typhlocharis fumayulensis Zaballos & Banda 2001
ENDE	6.00	53.18. Typhlocharis gomesalvesi Serrano & Aguiar, 2002
ENDE	6.00	53.19. Typhlocharis gomezi Zaballos 1991
ENDE	6.00	53.20. Typhlocharis hiekei Zaballos & Farinós 1995
ENDE	6.00	53.21. Typhlocharis intermedia Zaballos 1986
ENDE	6.00	53.22. Typhlocharis jeannei Zaballos 1989
ENDE	6.00	53.23. Typhlocharis laurentii Magrini 2000
ENDE	6.00	53.24. Typhlocharis matiasi Zaballos & Banda 2001
ENDE	6.00	53.25. Typhlocharis millenaria Zaballos & Banda 2001
ENDE	6.00	53.26. Typhlocharis monastica Zaballos & Wrase 1998
ENDE	6.00	53.27. Typhlocharis navarica Zaballos & Wrase 1998
ENDE	6.00	53.28. Typhlocharis outereloi Novoa 1979
ENDE	6.00	53.29. Typhlocharis pacensis Zaballos & Jeanne 1987
ENDE	6.00	53.30. Typhlocharis peregrina Zaballos & Wrase 1998
ENDE	6.00	53.31. Typhlocharis portilloi Zaballos 1991
ENDE	6.00	53.32. Typhlocharis quadridentata Coiffait 1968
ENDE	6.00	53.33. Typhlocharis sarrius A. Serrano & Aguiar 2001
ENDE	6.00	53.34. Typhlocharis simoni Ganglbauer 1900
ENDE	6.00	53.35. Typhlocharis singularis A. Serrano & Aguiar 2000
ENDE	6.00	53.36. Typhlocharis toribioi Ortuño 1988
ENDE	6.00	53.37. Typhlocharis wrasei Zaballos & Farinós 1995
		Subtribe Tachyina Motschulsky 1862
WMED	3.02	54.1. Elaphropus (Elaphropus) globulus (Dejean 1831)
TEUM	1.09	54.2. Elaphropus (Sphaerotachys) hoemorrhoidalis (Ponza 1805)
MEDT	3.01	54.3. E. (Tachyura) curvimanus (Wollaston 1854)
WMED	3.02	54.4. Elaphropus (Tachyura) ferroa Kopeck_ 2003 (nr)

DISTR.	CODE	Species
MEDT	3.01	54.5. Elaphropus (Tachyura) lucasii (Jacquelin du Val 1852)
EUME	1.12	54.6. Elaphropus (Tachyura) parvulus (Dejean 1831)
WEUR	2.05	54.7. Elaphropus (Tachyura) sexstriatus (Duftschmid 1812)
ENDE	6.00	54.8. Elaphropus (Tachyura) walkeriana dubia (Mateu 1952)
SOER	2.04	Elaphropus (Tachyura) walkeriana walkeriana Sharp 1913 *
MEDT	3.01	55.1. Lymnastis gallaeus Piochard de la Brûlerie 1875
EUME	1.12	56.1. Porotachys bisulcatus (Nicolai 1822)
CAME	1.08	57.1. Tachys (Paratachys) bistriatus (Duftschmid 1812)
TUER	1.10	57.2. Tachys (Paratachys) fulviollis (Dejean 1831)
WMED	3.02	57.3. Tachys (Paratachys) lusciosus Antoine 1943
PALE	1.02	57.4. Tachys (Paratachys) micros (Fischer 1828)
MEDT	3.01	57.5. Tachys (Polyderis) algiricus Lucas 1848
MEDT	3.01	57.6. Tachys (Tachys) dimediatus dimediatus Motschulsky 1849
CAEM	1.06	57.7. Tachys (Tachys) scutellaris Stephens 1828
MEDT	3.01	57.8. Tachys (Tachys) tetraphacus Bedel 1896
HOLA	1.01	58.1. Tachyta (Tachyta) nana (Gyllenhal 1810)
		Subtribe Bembidina
ENDE	6.00	59.1. Asaphidion caraboides splendidum (Heyden 1870)
WMED	3.02	59.2. Asaphidion curtum curtum (Heyden 1870)
SOER	2.04	59.3. Asaphidion cyanicorne cyanicorne (Pandellé 1867)
SIER	1.05	59.4. Asaphidion pallipes (Duftschmid 1812)
MEDT	3.01	59.5. Asaphidion rossii (Schaum 1857)
MEDT	3.01	59.6. Asaphidion stierlini (Heyden 1880)
EURP	2.01	60.1. Bembidion (Actedium) pallidipenne (Illiger 1802)
ENDE	6.00	60.2. Bembidion (Actedium) paulinoi Heyden 1870
ENDE	6.00	60.3. Bembidion (Bembidion) crassicorne Putzeys 1878
SIER	1.05	60.4. Bembidion (Bembidion) humerale Sturm 1825
ENDE	6.00	60.5. Bembidion (Bembidion) quadrimaculatum arragonense Wagner 1926
HOLA	1.01	Bembidion (Bembidion) quadrimaculatum quadrimaculatum (Linnaeus 1761) *
SIER	1.05	60.6. Bembidion (Bembidion) quadripustulatum quadripustulatum Audinet-Serville 1821
EURP	2.01	60.7. Bembidion (Bembidionetolitzkya) ascendens K. Daniel 1902
WERP	2.05	60.8. Bembidion (Bembidionetolitzkya) atrocaeruleum Stephens 1828
ALPI	2.07	60.9. Bembidion (Bembidionetolitzkya) bugnioni bugnioni K. Daniel 1902
WMED	3.02	60.10. Bembidion (Bembidionetolitzkya) coeruleum Audinet-Serville 1821
ALPI	2.07	60.11. Bembidion (Bembidionetolitzkya) complanatum Heer 1837
ALPI	2.07	60.12. Bembidion (Bembidionetolitzkya) conforme Dejean 1831
EURP	2.01	60.13. Bembidion (Bembidionetolitzkya) fasciolatum (Duftschmid 1812)
ENDE	6.00	60.14. Bembidion (Bembidionetolitzkya) geniculatum claudejeannei Maggi 2003
ALPI	2.07	Bembidion (Bembidionetolitzkya) geniculatum geniculatum Heer 1837 *
ENDE	6.00	60.15. Bembidion (Bembidionetolitzkya) gredosanum (Jeanne 1974)
ENDE	6.00	60.16. Bembidion (Bembidionetolitzkya) leonense Jeanne & Muller-Motzfeld 1982
ALPI	2.07	60.17. Bembidion (Bembidionetolitzkya) longipes K. Daniel 1902
EURP	2.01	60.18. Bembidion (Bembidionetolitzkya) tibiale (Duftschmid 1812)
EURP	2.01	60.19. Bembidion (Chlorodium) pygmaeum (Fabricius 1792)
WPAL	1.03	60.20. Bembidion (Diplocampa) assimile Gyllenhal 1810
SIER	1.05	60.21. Bembidion (Diplocampa) clarkii clarkii (Dawson 1849)
SIER	1.05	60.22. Bembidion (Diplocampa) fumigatum (Duftschmid 1812)
MEDT	3.01	60.23. Bembidion (Emphanes) axillare occiduum Marggi & Hubber 2001
TUER	1.10	60.24. Bembidion (Emphanes) azurescens azurescens Dalla Torre 1877
TSER	1.14	60.25. Bembidion (Emphanes) latiplaga latiplaga Chaudoir 1850
WPAL	1.03	60.26. Bembidion (Emphanes) minimum (Fabricius 1792)
AFME	4.02	60.27. Bembidion (Emphanes) normannum Dejean 1831
WPAL	1.03	60.28. Bembidion (Emphanes) tenellum tenellum Erichson 1837
ENDE	6.00	60.29. Bembidion (Emphanes) transversum (G. Muller 1918)
ALPI	2.07	60.30. Bembidion (Euperyphus) equesSturm 1825
TUER	1.10	60.31. Bembidion (Euperyphus) fluviatile Dejean 1831
WMED	3.02	60.32. Bembidion (Euperyphus) ripicola Dufour 1820
ALPI	2.07	60.33. Bembidion (Euperyphus) scapulare oblongum Dejean 1831
EURP	2.01	60.34. Bembidion (Eupetodromus) dentellum (Thunberg 1787)
CAPR	6.04	60.35. Bembidion (Lymnaeum) abeillei Bedel 1879
WPAL	1.03	60.36. Bembidion (Metallina) lampros (Herbst 1784)
ASER	1.04	60.37. Bembidion (Metallina) properans (Stephens 1828)
MEDT	3.01	60.38. Bembidion (Neja) ambiguum Dejean 1831
ENDE	6.00	60.39. Bembidion (Nepha) callosum subconnexum De Monte 1953
WMED	3.02	60.40. Bembidion (Nepha) geneiKuster 1847
LION	6.02	60.41. Bembidion (Nepha) grisvardi (Dewailly 1949)
ENDE	6.00	60.42. Bembidion (Nepha) ibericum Piochard de la Brûlerie 1867
BERI	6.01	60.43 Bembidion (Nepha) schmidti alluaudi Antoine 1925*
ENDE	6.00	Bembidion (Nepha) schmidti pseudocallosum P. Meyer 1949
EUME	1.12	60.44. Bembidion (Notaphemphanes) ephippium (Marsham 1802)
PALE	1.02	60.45. Bembidion (Notaphus) varium (Olivier 1795)
EUME	1.12	60.46. Bembidion (Ocydromus) decorum decorum (Panzer 1800)
ENDE	6.00	60.47. Bembidion (Ocydromus) siculum breiti Netolitzky 1918
MEDT	3.01	Bembidion (Ocydromus) siculum certans Netolitzky 1930
MEDT	3.01	Bembidion (Ocydromus) siculum siculum Dejean 1831 *
ENDE	6.00	Bembidion (Ocydromus) siculum winkleri Netolitzky 1943
WMED	3.02	60.48. Bembidion (Ocyturanes) dudichi dudichi Csiki 1928
ENDE	6.00	60.49. Bembidion (Ocyturanes) martachemai Toribio 2002
WMED	3.02	60.50. Bembidion (Ocyturanes) praeustum fauveli Gangbauer 1892
EURP	2.01	60.51. Bembidion (Odontium) foraminosum Sturm 1825
EURP	2.01	60.52. Bembidion (Odontium) striatum (Fabricius 1792)
WEUR	2.05	60.53. Bembidion (Omoperyphus) hypocrita hypocrita Dejean 1831
SOER	2.04	60.54. Bembidion (Omoperyphus) steinbuehleri steinbuehleri Gangbauer 1892
ENDE	6.00	60.55. Bembidion (Omoperyphus) strictum (Schuler 1962)
ENDE	6.00	60.56. Bembidion (Peryphanes) deletum schulerianum Müller-Motzfeld 1986
WEUR	2.05	60.57. Bembidion (Peryphanes) latinum Netolitzky 1911
BERI	6.01	60.58. Bembidion (Peryphanes) maroccanum Antoine 1923
EURP	2.01	60.59. Bembidion (Peryphanes) stephensii stephensii Crotch 1869
ENDE	6.00	60.60. Bembidion (Peryphiolus) caligatum Jeanne & Müller-Motzfeld 1982
EURP	2.01	60.61. Bembidion (Peryphiolus) monticola monticola Sturm 1825
SOER	2.04	60.62. Bembidion (Peryphus) andreae (Fabricius 1797)
WPAL	1.03	60.63. Bembidion (Peryphus) cruciatum cruciatum Dejean 1831
SIER	1.05	60.64. Bembidion (Peryphus) femoratum femoratum Sturm 1825
IBMG	6.03	60.65. Bembidion (Peryphus) hispanicum Dejean 1831
ATLA	3.06	60.66. Bembidion (Peryphus) maritimum lusitanicum Putzeys 1845
HOLA	1.01	60.67. Bembidion (Peryphus) tetracolum tetracolum Say 1823
WMED	3.02	60.68. Bembidion (Philochtus) antoinei Puel 1935
SIER	1.05	60.69. Bembidion (Philochtus) biguttatum (Fabricius 1779)
WMED	3.02	60.70. Bembidion (Philochtus) escherichi paganettii Netolitzky 1914
ENDE	6.00	60.71. Bembidion (Philochtus) guadarramense Gautier des Cottes 1866
WPAL	1.03	60.72. Bembidion (Philochtus) guttula (Fabricius 1792)
EUME	1.12	60.73. Bembidion (Philochtus) iricolor Bedel 1879
EUME	1.12	60.74. Bembidion (Philochtus) lunulatum (Geoffroy 1795)
SIER	1.05	60.75. Bembidion (Philochtus) mannerheimii Sahlberg 1827

DISTR.	CODE	Species
WMED	3.02	60.76. Bembidion (Philochtus) netolitzkyi Krausse 1910
MEDT	3.01	60.77. Bembidion (Philochtus) vicinum Lucas 1846
IBMG	6.03	60.78. Bembidion (Phyla) abdelkrimi Netolitzky 1926
EURP	2.01	60.79. Bembidion (Phyla) obtusum Audinet-Serville 1821
WMED	3.02	60.80. Bembidion (Phyla) rectangulum Jacquelin du Val 1852
MEDT	3.01	60.81. Bembidion (Phyla) tethys Netolitzky 1926
SIER	1.05	60.82. Bembidion (Plataphus) prasinum (Duftschmid 1812)
ENDE	6.00	60.83. Bembidion (Princidium) dufouri Perris 1864
EUME	1.12	60.84. Bembidion (Princidium) punctulatum punctulatum (Drapiez 1820)
WEUR	2.05	60.85. Bembidion (Pseudolimnaeum) inustum Jacquelin du Val 1857
WMED	3.02	60.86. Bembidion (Sinechostictus) cribrum cribrum Jacquelin du Val 1851
WMED	3.02	60.87. Bembidion (Sinechostictus) dahlii dahlii Dejean 1831
SOER	2.04	60.88. Bembidion (Sinechostictus) elongatum elongatum Dejean 1831
ENDE	6.00	60.89. Bembidion (Sinechostictus) frederici frederici (G. Müller 1918)
ALPI	2.07	60.90. Bembidion (Sinechostictus) ruficorne ruficorne Sturm 1825
EURP	2.01	60.91. Bembidion (Sinechostictus) stomoides stomoides Dejean 1831
CAER	1.07	60. 92. Bembidion (Talanes) aspericolle (Germar 1812)
ENDE	6.00	60.93. Bembidion (Testediolum) carpetanum Sharp 1901
ENDE	6.00	60.94. Bembidion (Testediolum) montanum Rambur 1838
ENDE	6.00	60.95. Bembidion (Testediolum) pyrenaeum pyrenaeum Dejean 1831
IBMG	6.03	60.96. Bembidion (Testedium) bipunctatum laevifrons Schaufuss 1882
ALPI	2.07	Bembidion (Testedium) bipunctatum pyritosum (Rossi 1792) *
ENDE	6.00	60.97. Bembidion (Testedium) flavoposticatum Jacquelin du Val 1855
MEDT	3.01	60.98. Bembidion (Testedium) laetum Brullé 1838
SIER	1.05	60.99. Bembidion (Trepanedoris) doris (Panzer 1789)
ASER	1.04	60.100. Bembidion (Trepanes) articulatum (Panzer 1796)
WMED	3.02	60.101. Bembidion (Trepanes) bedelianum Netolitzky 1918
MEDT	3.01	60.102. Bembidion (Trepanes) maculatum maculatum Dejean 1831
WPAL	1.03	60.103. Bembidion (Trepanes) octomaculatum (Goeze 1777)
ATLA	3.06	61.1. Cillenus lateralis Samouelle 1819
ENDE	6.00	62.1. Ocys (Ocys) crypticola Jeanne 2000
EUME	1.12	62.2. Ocys (Ocys) harpaloides (Audinet-Serville 1821)
EURP	2.01	62.3. Ocys (Ocys) quinquestriatus quinquestriatus (Gyllenhal 1810)
IBMG	6.03	62.4. Ocys (Ocys) tachysoides (Antoine 1933)
ENDE	6.00	62.5. Ocys (Oreocys) andreae (Jeannel 1937)
		Tribe Pogonini Laporte de Castelnau 1834
WMED	3.02	63.1. Pogonistes gracilis (Dejean 1828)
WMED	3.02	63.2. Pogonistes testaceus testaceus (Dejean 1828)
IBMG	6.03	64.1. Pogonus (Calopogonus) smaragdinus Waltl 1835
NOME	3.07	64.2. Pogonus (Pogonoidius) meridionalis Dejean 1828
WMED	3.02	64.3. Pogonus (Pogonus) chalceus viridianus Dejean 1828
MEDT	3.01	64.4. Pogonus (Pogonus) gilvipes Dejean 1828
EUME	1.12	64.5. Pogonus (Pogonus) littoralis (Duftschmid 1812)
WPAL	1.03	64.6. Pogonus (Pogonus) luridipennis (Germar 1822)
WMED	3.02	64.7. Pogonus (Pogonus) pallidipennis Dejean 1828
NOME	3.07	64.8. Pogonus (Raptor) riparius Dejean 1828
WMED	3.02	65.1. Sirdenus (Sirdenus) filiformis (Dejean 1828)
SASI	5.04	65.2. Sirdenus (Syrdenopsis) grayii (Wollaston 1862)
		Subfamily PATROBINAE Kirby 1837
		Tribe Patrobini
SIER	1.05	66.1 Patrobus atrorufus (Strom 1768)
ENDE	6.00	67.1. Penetretus andalusicus (Reitter 1896)
ENDE	6.00	67.2. Penetretus imitator Zamotajlov 1990
ENDE	6.00	67.3. Penetretus nebrioides (Vuillefroy 1866)
WMED	3.02	67.4. Penetretus rufipennis (Dejean 1828)
BERI	6.01	67.5. Penetretus temporalis Bedel 1909
		Subfamily PTEROSTICHINAE Bonelli 1810
		Tribe Pterostichini Bonelli 1810
		Subtribe Molopina Bonelli 1810
EURP	2.01	68.1 Abax parallelepipedus parallelepipedus (Piller & Mitterpacher 1783)
ENDE	6.00	68.2 Abax pyrenaeus jeannei Ortuño & Arribas 1992
ENDE	6.00	Abax pyrenaeus kirschenhoferi Wrase 1985
ENDE	6.00	Abax pyrenaeus pyrenaeus (Dejean 1828) *
ENDE	6.00	69.1 Henrotius jordai (Reitter 1914)
ENDE	6.00	70.1. Molopidius spinicollis (Dejean 1828)
ENDE	6.00	71.1. Oscadytes rovirai Lagar 1975
ENDE	6.00	72.1. Percus (Percus) espagnoli Lagar 1965
ENDE	6.00	72.2. Percus (Percus) plicatus (Dejean 1828)
ENDE	6.00	72.3. Percus (Pseudopercus) guiraoi Pérez-Arcas 1869
ENDE	6.00	72.4. Percus (Pseudopercus) patruelis (Dufour 1820)
ENDE	6.00	72.5. Percus (Pseudopercus) politus (Dejean 1831)
ENDE	6.00	72.6. Percus (Pseudopercus) stultus (Dufour 1820)
ENDE	6.00	73.1. Styracoderus atramentarius (Rosenhauer 1856)
ENDE	6.00	73.2. Styracoderus azarai (Pérez-Arcas 1872)
ENDE	6.00	73.3. Styracoderus martinezi (Vuillefroy 1873)
ENDE	6.00	74.1. Zariquieya troglodytes (Jeannel 1924)
		Subtribe Pterostichina
WMED	3.02	75.1. Abacetus (Astigis) salzmanni (Germar 1824)
IBMG	6.03	76.1. Ancholeus baeticus (Rambur 1838)
MEDT	3.01	76.2. Ancholeus gisellae gisellae (Csiki 1930)
WMED	3.02	76.3. Ancholeus nitidus (Dejean 1828)
TSER	1.14	76.4. Ancholeus punctipollis (Dejean 1828)
ENDE	6.00	77.1. Cryobius abaxoides abaxoides (Dejean 1828) *
ENDE	6.00	Cryobius abaxoides cabidochei (Colas 1965)
ENDE	6.00	Cryobius abaxoides quezeli (Puisségur & Verdier 1952)
ENDE	6.00	77.2. Cryobius amaroides (Dejean 1828)
ENDE	6.00	77.3. Cryobius amblypterus amblypterus (Chaudoir 1868) *
ENDE	6.00	Cryobius amblypterus laticollis (Aubry 1970)
ENDE	6.00	77.4. Cryobius amoenus amoenus (Dejean 1828) *
ENDE	6.00	Cryobius amoenus jeanneli (Mateu 1950)
ENDE	6.00	Cryobius amoenus mascarauxi (Jeannel 1947)
ENDE	6.00	Cryobius amoenus navaricus (Jeannel 1937)

DISTR.	CODE	Species
ENDE	6.00	Cryobius amoenus pecoudi (Jeannel 1947)
ENDE	6.00	Cryobius amoenus temperi (Jeannel 1947)
ENDE	6.00	77.5. Cryobius araiarensis (Mateu 1945)
ENDE	6.00	77.6. Cryobius cantabricus cantabricus (Schaufuss 1862) *
ENDE	6.00	Cryobius cantabricus lesourdi (Jeannel 1937)
ENDE	6.00	Cryobius cantabricus pellegrinii (Assmann 1998)
ENDE	6.00	Cryobius cantabricus vasconicus (Aubry 1963)
ENDE	6.00	77.7. Cryobius colasi (Jeannel 1937)
ENDE	6.00	77.8 Cryobius champenoisi bernardi (Jeannel 1937)
ENDE	6.00	Cryobius champenoisi champenoisi (Croissandreu 1893) *
ENDE	6.00	Cryobius champenoisi vallierensis (Coiffait 1952)
ENDE	6.00	77.9. Cryobius ehlersi (Heyden 1881)
ENDE	6.00	77.10. Cryobius espanoli (J. & E. Vives 1977)
ENDE	6.00	77.11. Cryobius glacialis (Barneville 1863)
ENDE	6.00	77.12. Cryobius infimus caniguensis (Jeannel 1937)
ENDE	6.00	Cryobius infirmus hustacheianus (Puel 1936)
ENDE	6.00	Cryobius infimus infimus (Chaudoir 1868) *
ENDE	6.00	77.13. Cryobius nemoralis celtibericus (Jeanne 1969)
ENDE	6.00	Cryobius nemoralis nemoralis (Graells 1851) *
ENDE	6.00	77.14. Cryobius procerulus (Heyden 1880)
SOER	2.04	77.15. Cryobius pumilio (Dejean 1828)
ENDE	6.00	77.16. Cryobius pusillus sagittalis (Jeannel 1937) *
ENDE	6.00	Cryobius pusillus sinuatus (Jeannel 1947)
ENDE	6.00	77.17. Cryobius subiasi (Ortuño & Zaballos 1992)
ENDE	6.00	78.1. Orthomus aubryi Jeanne 1974
ENDE	6.00	78.2. Orthomus balearicus (Plochard de la Brûlerie 1867)
MEDT	3.01	78.3. Orthomus barbarus barbarus (Dejean 1828) *
ENDE	6.00	Orthomus barbarus formenterrae (Breit 1933)
ENDE	6.00	Orthomus barbarus penibeticus Mateu & Colas 1954
ENDE	6.00	78.4. Orthomus hispanicus (Dejean 1828)
IBMG	6.03	78.5. Orthomus maroccanus Chaudoir 1873
ENDE	6.00	78.6. Orthomus perezii (Martinez 1873)
ENDE	6.00	78.7. Orthomus planidorsis (Fairmaire 1871)
ENDE	6.00	78.8. Orthomus velocissimus andalusiacus Mateu 1957
ENDE	6.00	Orthomus velocissimus pardoi Mateu 1957
ENDE	6.00	Orthomus velocissimus velocissimus (Waltl 1835) *
EURP	2.01	79.1. Pediusl ongicollis (Duftschmid 1812)
WMED	3.02	80.1. Poecilus (Carenostylus) purpurascens purpurascens (Dejean 1828)
ENDE	6.00	80.2. Poecilus (Coelipus) crenulatus crenulatus (Dejean 1828)
EURP	2.01	80.3. Poecilus (Macropoecilus) kugelanni (Panzer 1797)
ENDE	6.00	80.4. Poecilus (Macropoecilus) lepidus schatzmayri Jeanne 1980
CAPR	6.04	80.5. Poecilus (Macropoecilus) sericeus catalonicus Jeanne 1980 *
ENDE	6.00	Poecilus (Macropoecilus) sericeus transpyrenaeus Breit 1933
IBMG	6.03	80.6. Poecilus (Parapedius) decipiens (Waltl 1835)
SIER	1.05	80.7. Poecilus (Poecilus) cupreus cupreus (Linnaeus 1758)
SOER	2.04	80.8. Poecilus (Poecilus) cursorius (Dejean 1828)
ENDE	6.00	80.9. Poecilus (Poecilus) prasinotinctus Csiki 1930
WMED	3.02	80.10. Poecilus (Poecilus) quadricollis (Dejean 1828)
SIER	1.05	80.11. Poecilus (Poecilus) versicolor (Sturm 1824)
IBMG	6.03	80.12. Poecilus (Poecilus) tyrrhenicus Csiki 1930, nr
CAPR	6.04	80.13. Poecilus (Sogines) laevigatus (Dufour 1820)
ENDE	6.00	80.14. Poecilus (Sogines) zaballosi Jeanne & Ruiz-Tapiador 1995
TSER	1.14	81.1. Pterostichus (Argutor) cursor (Dejean 1828)
PALE	1.02	81.2. Pterostichus (Argutor) vernalis (Panzer 1796)
SIER	1.05	81.3. Pterostichus (Bothriopterus) oblongopunctatus oblongopunctatus (Fabricius 1787)
SIER	1.05	81.4. Pterostichus (Bothriopterus) quadrifoveolatus Letzner 1852
ENDE	6.00	81.5 Pterostichus (Iberophilus) brevipennis brevipennis Chevrolat 1840 *
ENDE	6.00	Pterostichus (Iberophilus) brevipennis sousae Vuillefroy 1868
ENDE	6.00	81.6. Pterostichus (Lianoe) arribasi Ortuño 1991
ENDE	6.00	81.7. Pterostichus (Lianoe) asturicus (Jeanne 1966)
ENDE	6.00	81.8. Pterostichus (Lianoe) drescoi bidocheiJeanne 1964
ENDE	6.00	Pterostichus (Lianoe) drescoi drescoi Nègre 1957 *
ENDE	6.00	81.9. Pterostichus (Lianoe) dufouri andorranus Puel 1924
ENDE	6.00	Pterostichus (Lianoe) dufouri aragonensis Colas 1935
ENDE	6.00	Pterostichus (Lianoe) dufouri boisgiraudi Dufour 1843
ENDE	6.00	Pterostichus (Lianoe) dufourii dufourii (Dejean 1828) *
ENDE	6.00	Pterostichus (Lianoe) dufourii expectatus Aubry 1971
ENDE	6.00	Pterostichus (Lianoe) dufourii nouiJeannel 1942
WMED	3.02	81.10. Pterostichus (Melanius) aterrimus nigerrimus Dejean 1828
TUME	1.11	81.11. Pterostichus (Melanius) elongatus (Duftschmid 1812)
SIER	1.05	81.12. Pterostichus (Morphnosoma) melanarius melanarius (Illiger 1798)
ENDE	6.00	81.13. Pterostichus (Oreophilus) cantaber (Chaudoir 1868)
ENDE	6.00	81.14. Pterostichus (Oreophilus) franzi cabrerensis Mateu 1972
ENDE	6.00	Pterostichus (Oreophilus) franzi franzi Nègre 1955 *
ENDE	6.00	Pterostichus (Oreophilus) franzi tulgoeti Mateu 1972
ENDE	6.00	81.15. Pterostichus (Oreophilus) paulinoi paulinoi Vuillefroy 1868 *
ENDE	6.00	Pterostichus (Oreophilus) paulinoi vanvolxemi Putzeys 1874
ENDE	6.00	81.16. Pterostichus (Oreophilus) xatartii (Dejean 1828)
SIER	1.05	81.17. Pterostichus (Phonias) diligens (Sturm 1824)
ENDE	6.00	81.18. Pterostichus (Phonias) perisi Novoa 1979
PALE	1.02	81.19. Pterostichus (Phonias) strenuus (Panzer 1797)
SIER	1.05	81.20. Pterostichus (Platysma) niger niger (Schaller 1783)
SIER	1.05	81.21. Pterostichus (Pseudomaseus) anthracinus anthracinus (Illiger 1798)
EURP	2.01	81.22. Pterostichus (Pseudomaseus) gracilis (Dejean 1828)
SIER	1.05	81.23. Pterostichus (Pseudomaseus) minor Gyllenhal (1827)
PALE	1.02	81.24. Pterostichus (Pseudomaseus) nigrita (Paykull 1790)
EURP	2.01	81.25. Pterostichus (Pseudomaseus) rhaeticus Heer 1837
ENDE	6.00	81.26.Pterostichus (Pterostichus) cristatus albericus Jeanne 1985
ENDE	6.00	Pterostichus (Pterostichus) cristatus cristatus (Dufour 1820) *
ENDE	6.00	Pterostichus (Pterostichus) cristatus heydenianus Jacobson 1907
ENDE	6.00	Pterostichus (Pterostichus) cristatus montsenicus Jeanne 1985
ENDE	6.00	Pterostichus (Pterostichus) cristatus platypterus Fairmaire & Laboulbène 1854
ENDE	6.00	81.27. Pterostichus (Pterostichus) dux Schaufuss 1862
ENDE	6.00	82.1. Steropus (Corax) ghilianii (Putzeys 1846)
ENDE	6.00	82.2. Steropus (Iberopus) catalonicus (K. Daniel 1906)
ENDE	6.00	82.3. Steropus (Iberopus) ferreri Español & Mateu 1942
IBMG	6.03	82.4. Steropus (Sterocorax) globosus ebenus (Quensel 1806)
ENDE	6.00	82.5. Steropus (Sterocorax) galaecianus (Lauffer 1899)
ENDE	6.00	82.6. Steropus (Sterocorax) insidiator (Piochard de la Brûlerie 1872)
ENDE	6.00	82.7. Steropus (Steropidius) gallega (Fairmaire 1859)
WEUR	2.05	82.8. Steropus (Steropidius) madidus (Fabricius 1775)
ENDE	6.00	82.9. Steropus (Steropidius) validus leonianus Jeanne 1989)
EURP	2.01	83.1. Stomis pumicatus pumicatus (Panzer 1796)
ENDE	6.00	84.1. Tinautius exilis Mateu 2001

DISTR.	CODE	Species
ENDE	6.00	84.2. Tinautius troglophilus Mateu 1997
ENDE	6.00	85.1. Troglorites breuili breuili Jeannel 1919 *
ENDE	6.00	Troglorites breuili mendizabali Jeannel 1921
		Tribe Zabrini Bonelli 1810
MEDT	3.01	86.1. Amara (Acorius) metallescens (Zimmermann 1831)
PALE	1.02	86.2. Amara (Amara) aenea (DeGeer 1774)
EUME	1.12	86.3. Amara (Amara) anthobia A. & J. B. Villa 1833
ASER	1.04	86.4. Amara (Amara) communis (Panzer 1790)
CAER	1.07	86.5. Amara (Amara) convexior Stephens 1828
CAER	1.07	86.6. Amara (Amara) curta Dejean 1828
HOLA	1.01	86.7. Amara (Amara) eurynota (Panzer 1797)
PALE	1.02	86.8. Amara (Amara) famelica Zimmermann 1832
ASER	1.04	86.9. Amara (Amara) familiaris (Duftschmid 1812)
TEUM	1.09	86.10. Amara (Amara) lucida (Duftschmid 1812)
ASER	1.04	86.11. Amara (Amara) lunicollis Schiodte 1837
EURP	2.01	86.12. Amara (Amara) montivaga Sturm 1825
SIER	1.05	86.13. Amara (Amara) nigricornis Thomson 1857
SIER	1.05	86.14. Amara (Amara) nitida Sturm 1825
ASER	1.04	86.15. Amara (Amara) ovata (Fabricius 1792)
TSER	1.14	86.16. Amara (Amara) proxima Putzeys 1866
PALE	1.02	86.17. Amara (Amara) similata (Gyllenhal 1810)
WMED	3.02	86.18. Amara (Amara) subconvexa Putzeys 1865
ASER	1.04	86.19. Amara (Amara) tibialis (Paykull 1798)
NAFR	3.04	86.20. Amara (Amathitis) rufescens (Dejean 1829)
ASER	1.04	86.21. Amara (Bradytus) apricaria (Paykull 1790)
ASER	1.04	86.22. Amara (Bradytus) consularis (Duftschmid 1812)
TUER	1.10	86.23. Amara (Bradytus) crenata Dejean 1828
SIER	1.05	86.24. Amara (Bradytus) fulva (O. F. Müller 1776)
WMED	3.02	86.25. Amara (Camptocelia) affinis Dejean 1828
ENDE	6.00	86.26. Amara (Camptocelia) arcuata arcuata (Putzeys 1866) *
ENDE	6.00	Amara (Camptocelia) arcuata castiliana Hieke 1983
ENDE	6.00	86.27. Amara (Camptocelia) barcelonensis Hieke 1983
WMED	3.02	86.28. Amara (Camptocelia) brevis Dejean 1828
BERI	6.01	86.29. Amara (Camptocelia) corpulenta (Putzeys 1866)
WMED	3.02	86.30. Amara (Camptocelia) cottyi cottyi Coquerel 1859
WEUR	2.05	86.31. Amara (Camptocelia) eximia Dejean 1828
ENDE	6.00	86.32. Amara (Camptocelia) gravidula gravidula Rosenhauer 1856 *
ENDE	6.00	Amara (Camptocelia) gravidula testudinea Putzeys 1865
ENDE	6.00	86.33. Amara (Camptocelia) malacensis Hieke 1983
IBMG	6.03	86.34. Amara (Camptocelia) rotundata Dejean 1828
SOER	2.04	86.35. Amara (Celia) arenaria (Putzeys 1865)
IBMG	6.03	86.36. Amara (Celia) atlantis Antoine 1925
CAER	1.07	86.37. Amara (Celia) bifrons (Gyllenhal 1810)
SIER	1.05	86.38. Amara (Celia) brunnea (Gyllenhal 1810)
EURP	2.01	86.39. Amara (Celia) cursitans Zimmermann 1831
ASER	1.04	86.40. Amara (Celia) erratica (Duftschmid 1812)
WMED	3.02	86.41. Amara (Celia) fervida fervida Coquerel 1858
WPAL	1.03	86.42. Amara (Celia) fusca Dejean 1828
PALE	1.02	86.43. Amara (Celia) ingenua (Duftschmid 1812)
MEDT	3.01	86.44. Amara (Celia) montana Dejean 1828
SIER	1.05	86.45. Amara (Celia) municipalis municipalis (Duftschmid 1812)
SIER	1.05	86.46. Amara (Celia) praetermissa (Sahlberg 1827)
MEDT	3.01	86.47. Amara (Celia) sollicita Pantel 1888
ENDE	6.00	86.48. Amara (Leironotus) albarracina (Hieke 1984)
ENDE	6.00	86.49. Amara (Leironotus) glabrata Dejean 1828
ENDE	6.00	86.50. Amara (Leironotus) ooptera (Putzeys 1866)
ENDE	6.00	86.51. Amara (Leironotus) rotundicollis (Schaufuss 1862)
ENDE	6.00	86.52. Amara (Leirus) espagnoli (J. Vives 1971)
ENDE	6.00	86.53. Amara (Leirus) puncticollis Dejean 1828
ENDE	6.00	86.54. Amara (Leirus) pyrenaeus Dejean 1828
ASER	1.04	86.55. Amara (Paracelia) quenseli quenseli (Schönherr 1806)
WMED	3.02	86.56. Amara (Paracelia) rufoaenea Dejean 1828
TUME	1.11	86.57. Amara (Paracelia) simplex Dejean 1828
ASER	1.04	86.58. Amara (Percosia) equestris equestris (Duftschmid 1812) *
WEUR	2.05	Amara (Percosia) equestris zabroides Dejean 1828
EURP	2.01	86.59. Amara (Zezea) concinna Zimmermann 1832
CAPR	6.04	86.60. Amara (Zezea) floralis Gaubil 1844
SOER	2.04	86.61. Amara (Zezea) fulvipes Audinet-Serville 1821
MEDT	3.01	86.62. Amara (Zezea) kulti Fassati 1947
ASER	1.04	86.63. Amara (Zezea) plebeja (Gyllenhal 1810)
WMED	3.02	86.64. Amara (Zezea) rufipes Dejean 1828
EURP	2.01	86.65. Amara (Zezea) strenua Zimmermann 1832
CAER	1.07	86.66. Amara (Zezea) tricuspidata Dejean 1831
ASER	1.04	87.1. Curtonotus aulicus (Panzer 1797)
ENDE	6.00	88.1. Zabrus (Epomidozabrus) flavangulus Chevrolat 1840
ENDE	6.00	88.2. Zabrus (Epomidozabrus) humeralis Uhagón 1904
ENDE	6.00	88.3. Zabrus (Epomidozabrus) mateui Novoa 1980
ENDE	6.00	88.4. Zabrus (Euryzabrus) pinguis Dejean 1831
ENDE	6.00	88.5. Zabrus (Iberozabrus) ambiguus Rambur 1837
ENDE	6.00	88.6. Zabrus (Iberozabrus) angustatus Rambur 1838
ENDE	6.00	88.7. Zabrus (Iberozabrus) cameranus Arribas 1994
ENDE	6.00	88.8. Zabrus (Iberozabrus) castroi Martínez 1873
ENDE	6.00	88.9. Zabrus (Iberozabrus) coiffaiti Jeanne 1970
ENDE	6.00	88.10. Zabrus (Iberozabrus) consanguineus Chevrolat 1865
ENDE	6.00	88.11. Zabrus (Iberozabrus) curtus arragonensis Heyden 1883
ENDE	6.00	Zabrus (Iberozabrus) curtus curtus (Audinet-Serville 1821) *
ENDE	6.00	Zabrus (Iberozabrus) curtus neglectus Schaum 1864
ENDE	6.00	Zabrus (Iberozabrus) curtus subpyrenaeus Jeanne & Zaballos 1986
ENDE	6.00	88.12. Zabrus (Iberozabrus) eserensis C. Bolívar 1918
ENDE	6.00	88.13. Zabrus (Iberozabrus) estrellanus Heyden 1880
ENDE	6.00	88.14. Zabrus (Iberozabrus) galicianus Jeanne 1970
ENDE	6.00	88.15. Zabrus (Iberozabrus) gibbulus Jeanne 1985
ENDE	6.00	88.16. Zabrus (Iberozabrus) gravis Dejean 1828
ENDE	6.00	88.17. Zabrus (Iberozabrus) inflatus Dejean 1828
ENDE	6.00	88.18. Zabrus (Iberozabrus) marginicollis Dejean 1828
ENDE	6.00	88.19. Zabrus (Iberozabrus) notabilis Martínez 1873
ENDE	6.00	88.20. Zabrus (Iberozabrus) obesus (Audinet-Serville 1821)
ENDE	6.00	88.21. Zabrus (Iberozabrus) rotundatus Rambur 1838
ENDE	6.00	88.22. Zabrus (Iberozabrus) seidlitzi gredosanus Jeanne 1970
ENDE	6.00	Zabrus (Iberozabrus) seidlitzi laurae Toribio 1989
ENDE	6.00	Zabrus (Iberozabrus) seidlitzi seidlitzi Schaum 1864 *
ENDE	6.00	88.23. Zabrus (Iberozabrus) silphoides asturiensis Heyden 1880
ENDE	6.00	Zabrus (Iberozabrus) silphoides silphoides Dejean 1828 *
ENDE	6.00	88.24. Zabrus (Iberozabrus) theveneti Chevrolat 1874
ENDE	6.00	88.25. Zabrus (Iberozabrus) urbionensis Jeanne 1970
ENDE	6.00	88.26. Zabrus (Iberozabrus) vasconicus Uhagón 1904

DISTR.	CODE	Species
ENDE	6.00	88.27. Zabrus (Platyzabrus) constrictus Graells 1858
ENDE	6.00	88.28. Zabrus (Platyzabrus) pecoudi Colas 1942
SOER	2.04	88.29. Zabrus (Zabrus) ignavus ignavus Csiki 1907
EURP	2.01	88.30. Zabrus (Zabrus) tenebrioides tenebrioides (Goeze 1777)
		Subfamily PLATYNINAE Bonelli 1810
		Tribe Platynini
EURP	2.01	89.1. Agonum (Agonum) afrum (Duftschmid 1812)
ALPI	2.07	89.2. Agonum (Agonum) alpestre (Heer 1837)
EURP	2.01	89.3. Agonum (Agonum) hypocrita (Apfelbeck 1904)
WPAL	1.03	89.4. Agonum (Agonum) lugens (Duftschmid 1812)
EUME	1.12	89.5. Agonum (Agonum) marginatum (Linnaeus 1758)
SIER	1.05	89.6. Agonum (Agonum) monachum (Duftschmid 1812)
SIER	1.05	89.7. Agonum (Agonum) muelleri (Herbst 1784)
TEUM	1.09	89.8. Agonum (Agonum) nigrum Dejean 1828
WMED	3.02	89.9. Agonum (Agonum) numidicum Lucas 1849
SOER	2.04	89.10. Agonum (Agonum) permoestum Puel 1938
SIER	1.05	89.11. Agonum (Agonum) sexpunctatum (Linnaeus 1758)
SIER	1.05	89.12. Agonum (Agonum) viduum (Panzer 1797)
CAER	1.07	89.13. Agonum (Agonum) viridicupreum viridicupreum (Goeze 1777)
SIER	1.05	89.14. Agonum (Europhilus) fuliginosus (Panzer 1809)
PALE	1.02	89.15. Agonum (Europhilus) gracile Sturm 1824
HOLA	1.01	89.16. Agonum (Europhilus) thoreyi thoreyi Dejean 1828
ALPI	2.07	90.1. Anchomenus (Anchodemus) cyaneus Dejean 1828
PALE	1.02	90.2. Anchomenus (Anchomenus) dorsalis (Pontoppidan 1763)
SOER	2.04	91.1. Atranus ruficollis (Gautier des Cottes 1857)
WMED	3.02	92.1. Cardiomera genei Bassi 1834
ENDE	6.00	93.1. Galeiotyphlotes weberi Assmann 1999
WMED	3.02	94.1. Olisthopus elongatus Wollaston 1859
MEDT	3.01	94.2. Olisthopus fuscatus Dejean 1828
IBMG	6.03	94.3. Olisthopus hispanicus Dejean 1828
EURP	2.01	94.4. Olisthopus rotundatus (Paykull 1798)
SIER	1.05	94.5. Olisthopus sturmii (Duftschmid 1812)
SIER	1.05	95.1. Oxypselaphus obscurus (Herbst 1784)
EUME	1.12	96.1. Paranchus albipes (Fabricius 1792)
EURP	2.01	97.1. Platynus (Batenus) livens (Gyllenhal 1810)
ASER	1.04	97.2 Platynus (Platynus) assimilis (Paykull 1790)
		Tribe Sphodrini Clairville 1806
		Subtribe Atranopsina Baehr 1982
ENDE	6.00	98.1. Platyderus (Platyderus) algesiranus Dieck 1870
ENDE	6.00	98.2. Platyderus (Platyderus) alhamillensis Cobos 1961
ENDE	6.00	98.3. Platyderus (Platyderus) aragonicus Jeanne 1985
ENDE	6.00	98.4. Platyderus (Platyderus) asturiensis Jedlicka 1958
ENDE	6.00	98.5. Platyderus (Platyderus) balearicus Jeanne 1970
ENDE	6.00	98.6. Platyderus (Platyderus) barrosi Jeanne 1996
ENDE	6.00	98.7. Platyderus (Platyderus) beseanus Jeanne 1970
ENDE	6.00	98.8. Platyderus (Platyderus) breuili Jeannel 1921
ENDE	6.00	98.9. Platyderus (Platyderus) coiffaiti Jeanne 1996
ENDE	6.00	98.10. Platyderus (Platyderus) crypticola Jeanne 1996
ENDE	6.00	98.11. Platyderus (Platyderus) dejeani Jeanne 1996
WEUR	2.05	98.12. Platyderus (Platyderus) depressus (Audinet-Serville 1821)
ENDE	6.00	98.13. Platyderus (Platyderus) dertosensis Lagar 1964
ENDE	6.00	98.14. Platyderus (Platyderus) emblema Marseul 1869
ENDE	6.00	98.15. Platyderus (Platyderus) espanoli Mateu 1952
ENDE	6.00	98.16. Platyderus (Platyderus) formenterae Jeanne 1988
ENDE	6.00	98.17. Platyderus (Platyderus) gallaecus Jeanne 1970
WMED	3.02	98.18. Platyderus (Platyderus) gregarius Reiche 1861
ENDE	6.00	98.19. Platyderus (Platyderus) incertans Mateu 1952
ENDE	6.00	98.20. Platyderus (Platyderus) jeannei Zaballos 1990
ENDE	6.00	98.21 Platyderus (Platyderus) juncoi Jeanne 1996
ENDE	6.00	98.22. Platyderus (Platyderus) leonensis Jeanne 1996
ENDE	6.00	98.23. Platyderus (Platyderus) lusitanicus herminius Jeanne 1970
ENDE	6.00	Platyderus (Platyderus) lusitanicus lusitanicus (Dejean 1828) *
ENDE	6.00	98.24. Platyderus (Platyderus) majoricus Jeanne 1988
ENDE	6.00	98.25. Platyderus (Platyderus) moncayensis Jeanne 1985
ENDE	6.00	98.26. Platyderus (Platyderus) montanellus Graells 1851
ENDE	6.00	98.27. Platyderus (Platyderus) ortunoi Arribas 1992
ENDE	6.00	98.28. Platyderus (Platyderus) portalegrae Vuillefroy 1868
ENDE	6.00	98.29. Platyderus (Platyderus) pyrenaeus Tempere 1947
ENDE	6.00	98.30. Platyderus (Platyderus) quadricollis Chaudoir 1866
ENDE	6.00	98.31. Platyderus (Platyderus) robustoides Jeanne 1996
ENDE	6.00	98.32. Platyderus (Platyderus) robustus Mateu 1952
ENDE	6.00	98.33. Platyderus (Platyderus) rotundatus Chaudoir 1866
ENDE	6.00	98.34. Platyderus (Platyderus) ruizi Jeanne 1996
ENDE	6.00	98.35. Platyderus (Platyderus) saezi Vuillefroy 1868
ENDE	6.00	98.36. Platyderus (Platyderus) salmantinus Jeanne 1996
ENDE	6.00	98.37. Platyderus (Platyderus) sciakyi Jeanne 1996
ENDE	6.00	98.38. Platyderus (Platyderus) skourpyi Jeanne 1996
ENDE	6.00	98.39. Platyderus (Platyderus) speleus Cobos 1961
ENDE	6.00	98.40. Platyderus (Platyderus) subcrenatus Chaudoir 1866
ENDE	6.00	98.41. Platyderus (Platyderus) testaceus Rambur 1837
ENDE	6.00	98.42. Platyderus (Platyderus) torressalai Jeanne 1996
ENDE	6.00	98.43. Platyderus (Platyderus) troglodytes Schaufuss 1862
ENDE	6.00	98.44. Platyderus (Platyderus) varians Schaufuss 1862
ENDE	6.00	98.45. Platyderus (Platyderus) vivesi Jeanne 1996
ENDE	6.00	98.46. Platyderus (Platyderus) vuillefroyi Dieck 1870
		Subtribe Calathina Laporte de Castelnau 1834
MEDT	3.01	99.1. Calathus (Bedelinus) circumseptus Germar 1824
ENDE	6.00	99.2. Calathus (Calathus) baeticus baeticus Rambur 1837**
ENDE	6.00	Calathus (Calathus) baeticus mateui Negre 1969
ENDE	6.00	99.3. Calathus (Calathus) brevis Gautier des Cottes 1866
SOER	2.04	99.4. Calathus (Calathus) fuscipes graecus Dejean & Boisduval 1830
ENDE	6.00	99.5. Calathus (Calathus) hispanicus dejeani Ganglbauer 1891
ENDE	6.00	Calathus (Calathus) hispanicus hispanicus Gautier des Cottes 1866 *
WEUR	2.05	99.6. Calathus (Calathus) luctuosus (Latreille 1804)
ENDE	6.00	99.7. Calathus (Calathus) malacensis Nègre 1966
ENDE	6.00	99.8. Calathus (Calathus) minutus Gautier des Cottes 1866
ENDE	6.00	99.9. Calathus (Calathus) mirei Nègre 1966
ENDE	6.00	99.10. Calathus (Calathus) moralesi Nègre 1966
ENDE	6.00	99.11. Calathus (Calathus) oreades Nègre 1966

DISTR.	CODE	Species
ENDE	6.00	99.12. Calathus (Calathus) uniseriatus Vuillefroy 1966
ENDE	6.00	99.13. Calathus (Calathus) vivesi Nègre 1966
ENDE	6.00	99.14. Calathus (Calathus) vuillefroyi Gautier des Cottes 1867
CAER	1.07	99.15. Calathus (Neocalathus) ambiguus chevrolati Gautier des Cottes 1866
ENDE	6.00	99.16. Calathus (Neocalathus) asturiensis Vuillefroy 1866
EURP	2.01	99.17. Calathus (Neocalathus) cinctus Motschulsky 1850
CAER	1.07	99.18. Calathus (Neocalathus) erratus erratus (Sahlberg 1827)
ENDE	6.00	99.19. Calathus (Neocalathus) granatensis Vuillefroy 1866
WPAL	1.03	99.20. Calathus (Neocalathus) melanocephalus melanocephalus (Linnaeus 1758)
TUER	1.10	99.21. Calathus (Neocalathus) mollis mollis (Marsham 1802)
ENDE	6.00	99.22. Calathus (Neocalathus) rotundatus estrelensis Jeanne 1976
ENDE	6.00	Calathus (Neocalathus) rotundatus leonensis Jeanne 1976
ENDE	6.00	Calathus (Neocalathus) rotundatus rotundatus Jacquelin du Val 1857 *
EURP	2.01	99.23. Calathus (Neocalathus) rotundicollis Dejean 1828
		Subtribe Dolichina Audouin & Brullé 1834
ENDE	6.00	100.1. Anchomenidius astur (Sharp 1872)
ENDE	6.00	100.2. Anchomenidius feldmanni Wrase & Assmann 2001
ASER	1.04	101.1. Dolichus halensis (Schaller 1783)
		Subtribe Sphodrina
ENDE	6.00	102.1. Laemostenus (Actenipus) oblongus ellipticus (Schaufuss 1862)
ENDE	6.00	Laemostenus (Actenipus) oblongus oblongus (Dejean 1828) *
ENDE	6.00	102.2. Laemostenus (Antisphodrus) andalusiacus andalusiacus J. & E. Vives 1982 *
ENDE	6.00	Laemostenus (Antisphodrus) andalusiacus granatensis J. & E. Vives 1982
ENDE	6.00	102.3. Laemostenus (Antisphodrus) barrancoi Mateu 1996
ENDE	6.00	102.4. Laemostenus (Antisphodrus) bermejae Fernández-Cortés 1996
ENDE	6.00	102.5. Laemostenus (Antisphodrus) cazorlensis cazorlensis (Mateu 1953) *
ENDE	6.00	Laemostenus (Antisphodrus) cazorlensis divergens (Mateu 1953)
ENDE	6.00	Laemostenus (Antisphodrus) cazorlensis seguranus (J. & E. Vives 1982)
ENDE	6.00	102.6. Laemostenus (Antisphodrus) lassallei Mateu 1989
ENDE	6.00	102.7. Laemostenus (Antisphodrus) ledereri (Schaufuss 1865)
ENDE	6.00	102.8. Laemostenus (Antisphodrus) levantinus C. Bolívar 1919
ENDE	6.00	102.9. Laemostenus (Antisphodrus) navaricus hispanus Jeanne 1967 *
ENDE	6.00	Laemostenus (Antisphodrus) navaricus vasconicus (Jeannel 1937)
ENDE	6.00	102.10. Laemostenus (Antisphodrus) peleus bolivari (Jeannel 1937)
ENDE	6.00	Laemostenus (Antisphodrus) peleus gallaecus (E. Vives 1976)
ENDE	6.00	Laemostenus (Antisphodrus) peleus peleus ((Schaufuss 1861) *
ENDE	6.00	102.11. Laemostenus (Ceuthostenes) mauritanicus polyphemus (Rambur 1837)
ENDE	6.00	102.12. Laemostenus (Eucryptotrichus) pinicola (Graells 1851)
COSM	0.01	102.13. Laemostenus (Laemostenus) complanatus (Dejean 1828)
WMED	3.02	102.14. Laemostenus (Pristonychus) algerinus algerinus (Gory 1833)
ENDE	6.00	102.15. Laemostenus (Pristonychus) baeticus (Rambur 1837)
COSM	0.01	102.16. Laemostenus (Pristonychus) terricola terricola (Herbst 1783)
TEUM	1.09	103.1. Sphodrus leucophtalmus (Linnaeus 1758)
		Subtribe Synuchina Lindroth 1956
CAER	1.07	104.1. Synuchus vivalis vivalis (Illiger 1798)
		Subfamily HARPALINAE Bonelli 1810
		Tribe Harpalini
		Subtribe Amblystomina Fauvel 1889
IBMG	6.03	105.1. Amblystomus escorialensis Gautier des Cottes 1866
WMED	3.02	105.2. Amblystomus mauritanicus (Dejean 1829)
CAME	1.08	105.3. Amblystomus metallescens (Dejean 1829)
TUME	1.11	105.4. Amblystomus niger (Heer 1838)
SOER	2.04	105.5. Amblystomus raymondi Gautier des Cottes 1861
		Subtribe Anisodactylina Lacordaire 1854
PALE	1.02	106.1. Anisodactylus (Anisodactylus) binotatus (Fabricius 1787)
ENDE	6.00	106.2. Anisodactylus (Anisodactylus) hispanus Puel 1931
TUER	1.10	106.3. Anisodactylus (Anisodactylus) nemorivagus (Duftschmid 1812)
SOER	2.04	106.4. Anisodactylus (Anisodactylus) pueli pueli Schauberger 1933
NOME	3.07	106.5. Anisodactylus (Hexatrichus) virens Dejean 1829.
WMED	3.02	106.6. Anisodactylus (Pseudhexatrichus) heros (Fabricius 1801)
CAER	1.07	106.7. Anisodactylus (Pseudoanisodactylus) signatus (Panzer 1797)
MEDT	3.01	106.8. Anisodactylus (Pseudodichirus) intermedius Dejean 1829
TUER	1.10	107.1. Diachromus germanus (Linnaeus 1758)
TUER	1.10	108.1. Gynandromorphus etruscus etruscus (Quensel 1806)
ENDE	6.00	109.1. Scybalicus minoricensis J. & E. Vives 1994
WMED	3.02	109.2. Scybalicus oblongiusculus (Dejean 1829)
		Subtribe Daptina LeConte 1847
CAEM	1.06	110.1. Daptus vittatus Fischer von Waldheim 1824
		Subtribe Ditomina Bonelli 1810
MEDT	3.01	111.1. Carterus (Carterus) dama (Rossi 1792)
WMED	3.02	111.2. Carterus (Carterus) fulvipes (Latreille 1817)
MEDT	3.01	111.3. Carterus (Carterus) gilvipes Piochard de la Brûlerie 1873
IBMG	6.03	111.4. Carterus (Carterus) interceptus Dejean 1829
MEDT	3.01	111.5. Carterus (Carterus) rotundicollis (Rambur 1837)
WMED	3.02	111.6. Carterus (Microcarterus) gracilis (Rambur 1837)
WMED	3.02	111.7. Carterus (Microcarterus) microcephalus (Rambur 1837)
SOER	2.04	112.1. Ditomus calydonius calydonius (Rossi 1790)
MEDT	3.01	112.2. Ditomus tricuspidatus (Fabricius 1792)
WMED	3.02	113.1. Dixus capito capito (Audinet-Serville 1821)
MEDT	3.01	113.2. Dixus clypeatus (Rossi 1790)
MEDT	3.01	113.3. Dixus interruptus (Fabricius 1775)
WMED	3.02	113.4. Dixus sphaerocephalus (Olivier 1795)
ENDE	6.00	114.1. Eocarterus (Iberocarterus) amicorum Wrase 1993
BERI	6.01	114.2. Eocarterus (Iberocarterus) baeticus (Rambur 1837)
IBMG	6.03	115.1. Odontocarus cephalotes (Dejean 1826)
IBMG	6.03	116.1. Oedesis tomentosus (Dejean 1831)
WMED	3.02	116.2. Oedesis villosulus (Reiche 1859)
MEDT	3.01	117.1. Tschitscherinellus cordatus cordatus (Dejean 1825)
		Subtribe Harpalina
ENDE	6.00	118.1. Acinopus (Acinopus) almeriensis Mateu 1954
ENDE	6.00	118.2. Acinopus (Acinopus) giganteus Dejean 1831

DISTR.	CODE	Species
ENDE	6.00	118.3. Acinopus (Acinopus) jeannei E. & J.Vives 1989
SOER	2.04	118.4. Acinopus (Acinopus) picipes (Olivier 1795)
ENDE	6.00	118.5. Acinopus (Acinopus) pilipes bajeti J. & E. Vives 1989
ENDE	6.00	Acinopus (Acinopus) pilipes pilipes Piochard de la Brûlerie 1867*
IBMG	6.03	118.6. Acinopus (Acmastes) haroldi Schaum 1863
IBMG	6.03	118.7. Acinopus (Oedematicus) gutturosus Buquet 1840
NAFR	3.04	119.1. Cryptophonus fulvus (Dejean 1829)
MEDT	3.01	119.2. Cryptophonus litigiosus litigiosus (Dejean 1829)
TUER	1.10	119.3. Cryptophonus melancholicus (Dejean 1829)
CAEM	1.06	119.4. Cryptophonus tenebrosus (Dejean 1829)
MEDT	3.01	120.1. Graniger cordicollis (Audinet-Serville 1821)
MEDT	3.01	120.2. Graniger femoralis (Coquerel 1858) (algirinus Motschulsky 1864)
ENDE	6.00	121.1 Harpalus (Harpalus) aesculanus Pantel 1888
ASER	1.04	121.2. Harpalus (Harpalus) affinis (Schrank 1781)
EURP	2.01	121.3. Harpalus (Harpalus) albanicus Reitter 1900
WMED	3.02	121.4. Harpalus (Harpalus) angustitarsis (Duftschmid 1812)
ASER	1.04	121.5. Harpalus (Harpalus) anxius (Duftschmid 1812)
EURP	2.01	121.6. Harpalus (Harpalus) atratus Latreille 1804
TEUM	1.09	121.7. Harpalus (Harpalus) attenuatus Stephens 1828
IBMG	6.03	121.8. Harpalus (Harpalus) cardoni Antoine 1922
ENDE	6.00	121.9. Harpalus (Harpalus) contemptus Dejean 1829
WEUR	2.05	121.10. Harpalus (Harpalus) cupreus cupreus Dejean 1829
LION	2.05	121.11. Harpalus (Harpalus) decipiens decipiens Dejean 1829
SOER	2.04	121.12. Harpalus (Harpalus) dimidiatus (Rossi 1790)
WEUR	2.05	121.13. Harpalus (Harpalus) dispar Dejean 1829
PALE	1.02	121.14. Harpalus (Harpalus) distinguendus distinguendus (Duftschmid 1812)
ENDE	6.00	121.15. Harpalus (Harpalus) ebeninus Heyden 1870
TUME	1.11	121.16. Harpalus (Harpalus) fuscicornis Ménétriés 1832
EURP	2.01	121.17. Harpalus (Harpalus) honestus (Duftschmid 1812)
WPAL	1.03	121.18. Harpalus (Harpalus) laevipes Zetterstedt 1828
IBMG	6.03	121.19. Harpalus (Harpalus) lateralis Dejean 1829
ASER	1.04	121.20. Harpalus (Harpalus) latus (Linnaeus 1758)
IBMG	6.03	121.21. Harpalus (Harpalus) microthorax (Motschulsky 1849)
ASER	1.04	121.22. Harpalus (Harpalus) modestus Dejean 1829
EURP	2.01	121.23. Harpalus (Harpalus) neglectus neglectus Audinet-Serville 1821
ENDE	6.00	121.24. Harpalus (Harpalus) nevadensis K. & J. Daniel 1898
IBMG	6.03	121.25. Harpalus (Harpalus) numidicus Bedel 1893
WMED	3.02	121.26. Harpalus (Harpalus) oblitus patruelis Dejean 1829
CAER	1.07	121.27. Harpalus (Harpalus) pumilus Sturm 1818
MEDT	3.01	121.28. Harpalus (Harpalus) punctatostriatus Dejean 1829
TUER	1.10	121.29. Harpalus (Harpalus) pygmaeus Dejean 1829
ASER	1.04	121.30. Harpalus (Harpalus) rubripes (Duftschmid 1812)
SOER	2.04	121.31. Harpalus (Harpalus) rufipalpis rufipalpis Sturm 1818
CAEM	1.06	121.32. Harpalus (Harpalus) serripes serripes (Quensel 1806)
WMED	3.02	121.33. Harpalus (Harpalus) siculus Dejean 1829
CAER	1.07	121.34. Harpalus (Harpalus) smaragdinus (Duftschmid 1812)
SIER	1.05	121.35. Harpalus (Harpalus) solitaris Dejean 1829
WMED	3.02	121.36. Harpalus (Harpalus) sulphuripes goudoti Dejean 1829
WMED	3.02	Harpalus (Harpalus) sulphuripes sulphuripes German 1824 *
EURP	2.01	121.37. Harpalus (Harpalus) tardus (Panzer 1797)
ENDE	6.00	121.38. Harpalus (Harpalus) wagneri Schauberger 1926
ASER	1.04	121.39. Harpalus (Harpalus) zabroides Dejean 1829
ENDE	6.00	121.40. Harpalus (Licinoderus) chobautianus Lutshnik 1922
ENDE	6.00	121.41. Harpalus (Licinoderus) franzi Mateu 1954
ENDE	6.00	121.42. Harpalus (Typsiharpalus) bonvouloiri Vuillefroy 1866
ENDE	6.00	121.43. Harpalus (Typsiharpalus) punctatipennis Rambur 1838
WPAL	1.03	122.1. Ophonus (Hesperophonus) azureus (Fabricius 1755)
TUER	1.10	122.2. Ophonus (Hesperophonus) cribricollis (Dejean 1829)
IBMG	6.03	122.3. Ophonus (Hesperophonus) longicollis (Rambur 1838)
WMED	3.02	122.4. Ophonus (Hesperophonus) pumilio (Dejean 1829)
WMED	3.02	122.5. Ophonus (Hesperophonus) rotundatus Dejean 1829
TUER	1.10	122.6. Ophonus (Hesperophonus) similis (Dejean 1829)
TEUM	1.09	122.7. Ophonus (Hesperophonus) subquadratus (Dejean 1829)
MEDT	3.01	122.8. Ophonus (Incisophonus) incisus (Dejean 1829)
SOER	2.04	122.9. Ophonus (Metophonus) brevicollis (Audinet-Serville 1821)
CAEM	1.06	122.10. Ophonus (Metophonus) cordatus (Duftschmid 1812)
IBMG	6.03	122.11. Ophonus (Metophonus) cunii (Fairmaire 1880)
WMED	3.02	122.12. Ophonus (Metophonus) ferrugatus (Reitter 1902)
TUER	1.10	122.13. Ophonus (Metophonus) melletii (Heer 1837)
CAER	1.07	122.14. Ophonus (Metophonus) nitidulus Stephens 1828
EURP	2.01	122.15. Ophonus (Metophonus) parallelus (Dejean 1829)
TEUM	1.09	122.16. Ophonus (Metophonus) puncticeps Stephens 1828
SIER	1.05	122.17. Ophonus (Metophonus) punctulatus (Paykull 1798)
TEUM	1.09	122.18. Ophonus (Metophonus) rufibarbis (Fabricius 1792)
EURP	2.01	122.19. Ophonus (Metophonus) rupicola (Sturm 1818)
WMED	3.02	122.20. Ophonus (Metophonus) sahlbergianus Lutshnik 1922
EURP	2.01	122.21. Ophonus (Metophonus) schaubergerianus Puel 1937
MEDT	3.01	122.22. Ophonus (Metophonus) subsinuatus Rey 1886
MEDT	3.01	122.23. Ophonus (Metophonus) syriacus (Dejean 1829)
WMED	3.02	122.24. Ophonus (Metophonus) xaxarsi (Schauberger 1928)
EUME	1.12	122.25. Ophonus (Ophonus) ardosiacus Lutshnik 1922
TUER	1.10	122.26. Ophonus (Ophonus) diffinis (Dejean 1829)
WMED	3.02	122.27. Ophonus (Ophonus) opacus (Dejean 1829)
WMED	3.02	122.28. Ophonus (Ophonus) quadricollis (Dejean 1831)
TUER	1.10	122.29. Ophonus (Ophonus) sabulicola (Panzer 1796)
SIER	1.05	122.30. Ophonus (Ophonus) stictus Stephens 1828
TUME	1.11	123.1. Pangus scaritides (Sturm 1818)
TUME	1.11	124.1. Parophonus (Ophonomimus) hirsutulus (Dejean 1829)
IBMG	6.03	124.2. Parophonus (Parophonus) antoinei (Schauberger 1932)
ENDE	6.00	124.3. Parophonus (Parophonus) hespericus Jeanne 1985
WMED	3.02	124.4. Parophonus (Parophonus) hispanus (Rambur 1838)
ENDE	6.00	124.5. Parophonus (Parophonus) Iberiparcus Zaballos & García-Múñez 1991
SOER	2.04	124.6. Parophonus (Parophonus) maculicornis (Duftschmid 1812)
TUER	1.10	124.7. Parophonus (Parophonus) mendax (Rossi 1790)
SIER	1.05	125.1. Pseudoophonus (Platus) calceatus (Duftschmid 1812)
PALE	1.02	125.2. Pseudoophonus (Pseudoophonus) griseus (Panzer 1797)
PALE	1.02	125.3. Pseudoophonus (Pseudoophonus) rufipes (DeGeer 1774)
SIER	1.05	126.1. Semiophonus signaticornis (Duftschmid 1812)
EURP	2.01	127.1. Trichotichnus laevicollis laevicollis (Duftschmid 1812)

DISTR.	CODE	Species
		Subtribe Stenolophina Kirby 1837
EUME	1.12	128.1. Acupalpus brunnipes (Sturm 1825)
IBMG	6.03	128.2. Acupalpus cantabricus Piochard de la Brûlerie 1867
EUME	1.12	128.3. Acupalpus dubius Schilsky 1888
CAEM	1.06	128.4. Acupalpus elegans (Dejean 1829)
CAER	1.07	128.5. Acupalpus flavicollis (Sturm 1825)
IBMG	6.03	128.6. Acupalpus ibericus Jaeger 1988
TEUM	1.09	128.7. Acupalpus luteatus (Duftschmid 1812)
TEUM	1.09	128.8. Acupalpus maculatus (Schaum 1860)
SIER	1.05	128.9. Acupalpus meridianus (Linnaeus 1767)
MEDT	3.01	128.10. Acupalpus notatus Mulsant et Rey 1871
WMED	3.02	128.11. Acupalpus oliveirae Reitter 1884
ASER	1.04	128.12. Acupalpus parvulus Sturm (1825)
WMED	3.02	128.13. Acupalpus (Ancylostria) mediterraneus Csiki 1932
WPAL	1.02	129.1. Anthracus consputus (Duftschmid 1812)
NOME	3.07	129.2. Anthracus quarnerensis (Reitter 1884)
IBMG	6.03	130.1. Bradycellus (Bradycellus) brevitarsis Normand 1945
SIER	1.05	130.2. Bradycellus (Bradycellus) caucasicus (Chaudoir 1846)
MEDT	3.01	130.3. Bradycellus (Bradycellus) distinctus (Dejean 1829)
EUME	1.12	130.4. Bradycellus (Bradycellus) harpalinus (Audinet-Serville 1821)
WMED	3.02	130.5. Bradycellus (Bradycellus) lusitanicus (Dejean 1829)
ATLA	3.06	130.6. Bradycellus (Bradycellus) sharpi Joy 1912
TEUM	1.09	130.7. Bradycellus (Bradycellus) verbasci (Duftschmid 1812)
EURP	2.01	130.8. Bradycellus (Tetraplatypus) ruficollis (Stephens 1828)
EURP	2.01	131.1. Dicheirotrichus (Dicheirotrichus) gustavii Crotch 1871
MEDT	3.01	131.2. Dicheirotrichus (Dicheirotrichus) obsoletus (Dejean 1829)
MEDT	3.01	131.3. Dicheirotrichus (Dicheirotrichus) pallidus (Dejean 1829)
MEDT	3.01	131.4. Dicheirotrichus (Pelagophilus) punicus Bedel 1899
TEUM	1.09	132.1. Egadroma marginatum (Dejean 1829)
WMED	3.02	133.1. Stenolophus abdominalis abdominalis (Géné 1836)
CAER	1.07	133.2. Stenolophus discophorus (Fischer 1823)
WPAL	1.03	133.3. Stenolophus mixtus (Herbst 1784)
ENDE	6.00	133.4. Stenolophus paulinoi Heyden 1891
CAME	1.08	133.5. Stenolophus proximus Dejean 1829
EUME	1.12	133.6. Stenolophus skrimshiranus Stephens 1828
TEUM	1.09	133.7. Stenolophus teutonus (Schrank 1781)
LION	6.02	134.1. Trichocellus godarti (Jacquet 1882)
		Subfamily LICININAE Bonelli 1810
		Tribe Licinini
		Subtribe Dicaelina Laporte de Castelnau 1834
NAFR	3.04	135.1. Diplocheila (Isorembus) aegyptiacus Dejean 1831
		Subtribe Licinina (Badistrina Jeannel 1942)
EUME	1.12	136.1. Badister (Badister) meridionalis Puel 1925
SIER	1.05	136.2. Badister (Badister) unipustulatus Bonelli 1813
CAEM	1.06	136.3. Badister (Baudia) collaris Motschulsky 1844
SIER	1.05	136.4. Badister (Baudia) dilatatus Chaudoir 1837
EURP	2.01	136.5. Badister (Baudia) peltatus peltatus (Panzer 1796)
EURP	2.01	136.6. Badister (Trimorphus) sodalis (Duftschmid 1812)
ENDE	6.00	137.1. Licinus (Licinus) aequatus aequatus Audinet-Serville 1821 *
ENDE	6.00	Licinus (Licinus) aequatus angustus Chevrolat 1840
ENDE	6.00	Licinus (Licinus) aequatus catalonicus Jeanne 1974
ENDE	6.00	Licinus (Licinus) aequatus pecoudi Puel 1925
ENDE	6.00	Licinus (Licinus) aequatus reymondi Colas 1949
ENDE	6.00	Licinus (Licinus) aequatus sierrae Arribas 1994
SIER	1.05	137.2. Licinus (Licinus) depressus Paykull 1790
ENDE	6.00	137.3. Licinus (Licinus) peltoides Dejean 1826
WMED	3.02	137.4. Licinus (Licinus) punctatulus granulatus Dejean 1826
WMED	3.02	Licinus (Licinus) punctatulus punctatulus (Fabricius 1792) *
		Tribe Oodini Laferté-Sénectére 1851
AFME	4.02	138.1. Lonchosternus angolensis (Erichson 1843)
IBMG	6.03	138.2. Lonchosternus hispanicus (Dejean 1826)
TUER	1.10	139.1. Oodes gracilis A. & J. B. Villa 1833
PALE	1.02	139.2. Oodes helopioides helopioides (Fabricius 1792)
		Tribe Chlaenini Brullé 1834
		Subtribe Callistina Laporte de Castelnau 1834
CAEM	1.06	140.1. Callistus lunatus lunatus (Fabricius 1795)
		Subtribe Chlaenina
SIER	1.05	141.1. Chlaenius (Chlaeniellus) nigricornis (Fabricius 1787)
EURP	2.01	141.2. Chlaenius (Chlaeniellus) nitidulus (Schrank 1781)
MEDT	3.01	141.3. Chlaenius (Chlaeniellus) olivieri Crotch 1870
EURP	2.01	141.4. Chlaenius (Chlaeniellus) tibialis Dejean 1826
SIER	1.05	141.5. Chlaenius (Chlaeniellus) tristis tristis (Schaller 1783)
SIER	1.05	141.6. Chlaenius (Chlaeniellus) vestitus (Paykull 1790)
PALE	1.02	141.7. Chlaenius (Chlaenites) spoliatus spoliatus (Rossi 1790)
WMED	3.02	141.8. Chlaenius (Chlaenius) festivus velutinus (Duftschmid 1812)
TUME	1.11	141.9. Chlaenius (Epomis) circumscriptus (Duftschmid 1812)
ENDE	6.00	141.10. Chlaenius (Nectochlaenius) canariensis alonsoi Cortés 1988
IBMG	6.03	141.11. Chlaenius (Trichochlaenius) aeratus (Quensel 1806)
IBMG	6.03	141.12. Chlaenius (Trichochlaenius) cyaneus Brullé 1835
WMED	3.02	141.13. Chlaenius (Trichochlaenius) chrysocephalus (Rossi 1790)
IBMG	6.03	141.14. Chlaenius (Trichochlaenius) infantulus Chaudoir 1876
IBMG	6.03	141.15. Chlaenius (Trichochlaenius) virens Rambur 1837
ENDE	6.00	142.1. Dinodes baeticus Rambur 1837
TUME	1.11	142.2. Dinodes decipiens (Dufour 1820)
ENDE	6.00	142.3. Dinodes dives dives (Dejean 1826) *
ENDE	6.00	Dinodes dives eidami (Wagner 1932)
ENDE	6.00	Dinodes dives gallaecianus (Chaudoir 1876)
ENDE	6.00	Dinodes dives gredosanus Laufer 1905
ENDE	6.00	Dinodes dives kricheldorffi (Wagner 1932)
ENDE	6.00	Dinodes dives lusitanicus (Wagner 1932)
ENDE	6.00	142.4. Dinodes fulgidicollis proximus Martínez 1873
AFME	4.02	142.5 Dinodes (Pachydinodes) conformis Dejean 1831
		Subfamily PANAGAENINAE Bonelli 1810
		Tribe Panagaenini
EURP	2.01	143.1. Panagaeus bipustulatus (Fabricius 1775)

DISTR.	CODE	Species
PALE	1.02	143.2. Panagaeus cruxmajor (Linnaeus 1758)
		Subfamily LEBIINAE Bonelli 1810
		Tribe Perigonini G. Horn 1881
COSM	0.01	144.1. Perigona (Trechicus) nigriceps (Dejean 1831)
		Tribe Odacanthini Laporte de Castelnau 1834
AFME	4.02	145.1. Eucolliuris olivieri (Buquet 1864)
SIER	1.05	146.1. Odacantha melanura (Linnaeus 1767)
		Tribe Cyclosomini Laporte de Castelnau 1834
		Subtribe Cyclosomina
AFME	4.02	147.1. Microus mocquerysi Chaudoir 1876
		Subtribe Masoreina Chaudoir 1870
TSER	1.14	148.1. Masoreus aegyptiacus Dejean 1828
IBMG	6.03	148.2. Masoreus wetterhallii axillaris Kuster 1852
SIER	1.05	Masoreus wetterhallii wetterhallii (Gyllenhal 1813) *
		Tribe Lebiini
		Subtribe Agrina Kirby 1837
TSER	1.14	149.1. Glycia spencei (Gistel 1838) (ornata Klug 1831)
		Subtribe Apenina Ball 1982
MEDT	3.01	150.1. Platytarus bufo (Fabricius 1801)
TEUM	1.09	150.2. Platytarus famini famini (Dejean 1826)
NAFR	3.04	150.3. Platytarus gracilis gracilis (Dejean 1831)
ENDE	6.00	151.1. Trymosternus acutangulus Mateu 1963
ENDE	6.00	151.2. Trymosternus ariasi C. Bolívar 1914
ENDE	6.00	151.3. Trymosternus bolivari Mateu 1952
ENDE	6.00	151.4. Trymosternus cobosi Mateu 1952
ENDE	6.00	151.5. Trymosternus cordatus cordatus (Rambur 1837) *
ENDE	6.00	Trymosternus cordatus sagrensis Mateu 1952
ENDE	6.00	151.6. Trymosternus negrei Mateu 1952
ENDE	6.00	151.7. Trymosternus onychinus (Dejean 1825)
ENDE	6.00	151.8. Trymosternus reflexim argo Chaudoir 1873
ENDE	6.00	151.9. Trymosternus truncatus (Rambur 1837)
ENDE	6.00	151.10. Trymosternus urcitanus Mateu 1963
		Subtribe Cymindidina Laporte de Castelnau 1834
ENDE	6.00	152.1. Cymindis (Cymindis) alternans alternans Rambur 1837 *
ENDE	6.00	Cymindis (Cymindis) alternans vogelii Schaufuss 1862
TUME	1.11	152.2. Cymindis (Cymindis) axillaris axillaris (Fabricius 1794) *
ENDE	6.00	Cymindis (Cymindis) axillaris Iberica Jeanne 1985
ENDE	6.00	152.3. Cymindis (Cymindis) coadunata gredosana Jeanne 1985 *
ENDE	6.00	Cymindis (Cymindis) coadunata kricheldorffi Puel 1935
ENDE	6.00	Cymindis (Cymindis) coadunata limbatella Chaudoir 1873
ENDE	6.00	Cymindis (Cymindis) coadunata melanocephala Dejean 1825
ENDE	6.00	Cymindis (Cymindis) coadunata monticola Chevrolat 1866
SOER	2.04	152.4. Cymindis (Cymindis) discoidea Dejean 1829
ENDE	6.00	152.5. Cymindis (Cymindis) ehlersi ehlersi Putzeys 1872 *
ENDE	6.00	Cymindis (Cymindis) ehlersi lelievrei Jeanne 1985
ENDE	6.00	152.6. Cymindis (Cymindis) etrusca affinis Rambur 1837 *
ENDE	6.00	Cymindis (Cymindis) etrusca baetica Rambur 1837
ENDE	6.00	Cymindis (Cymindis) etrusca mediberica Jeanne 1985
ENDE	6.00	Cymindis (Cymindis) etrusca pyrenaea Jeanne 1985
ENDE	6.00	152.7. Cymindis (Cymindis) heydeni Paulino d'Oliveira 1882
EURP	2.01	152.8. Cymindis (Cymindis) humeralis (Geoffroy 1785)
WMED	3.02	152.9. Cymindis (Cymindis) lineola Dufour 1820
ENDE	6.00	152.10. Cymindis (Cymindis) singularis Rosenhauer 1856
ASER	1.04	152.11. Cymindis (Tarulus) vaporarium (Linnaeus 1758)
IBMG	6.03	152.12. Cymindis (Menas) bedeli Tschitscherin 1897
TSER	1.14	152.13. Cymindis (Menas) miliaris (Fabricius 1801)
WMED	3.02	153.1. Pseudomasoreus canigoulensis (Fairmaire & Laboulbène 1854)
		Subtribe Demetriadina Bates 1886 (Demetriina goi)
TEUM	1.09	154.1. Demetrias (Aetophorus) imperialis (Germar 1824)
EUME	1.12	154.2. Demetrias (Demetrias) atricapillus (Linnaeus 1758)
		Subtribe Dromiina Bonelli 1810
MEDT	3.01	155.1. Calodromius bifasciatus (Dejean 1825)
ENDE	6.00	155.2. Calodromius putzeysi (Paulino d'Oliveira 1876) 301
EUME	1.12	155.3. Calodromius spilotus (Illiger 1798)
EURP	2.01	156.1. Dromius (Dromius) agilis (Fabricius 1787)
EURP	2.01	156.2. Dromius (Dromius) angustus angustus Brullé 1834
IBMG	6.03	156.3. Dromius (Dromius) chobauti Puel 1923
EURP	2.01	156.4. Dromius (Dromius) fenestratus (Fabricius 1794)
EUME	1.12	156.5. Dromius (Dromius) meridionalis Dejean 1825
SIER	1.05	156.6. Dromius (Dromius) quadraticollis Morawitz 1862
EURP	2.01	156.7. Dromius (Dromius) quadrimaculatus (Linnaeus 1758)
IBMG	6.03	156.8. Dromius (Dromius) simplicior Antoine 1962
IBMG	6.03	157.1. Mesolestes (Mesolestes) scapularis (Dejean 1829)
ENDE	6.00	157.2. Mesolestes (Neomesolestes) relictus Jeanne 1985
ENDE	6.00	157.3. Mesolestes (Neomesolestes) sermeti (Mateu & Colas 1954)
MEDT	3.01	158.1. Metadromius myrmidon (Fairmaire 1859)
IBMG	6.03	158.2. Metadromius rambouri (Piochard de la Brûlerie 1867)
SOER	2.04	159.1. Microlestes abeillei abeillei Brisout de Barneville 1885
WPAL	1.03	159.2. Microlestes corticalis (Dufour 1820)
ENDE	6.00	159.3. Microlestes espanoli Jeanne 1985
TSER	1.14	159.4. Microlestes fissuralis (Reitter 1900)
TUME	1.11	159.5. Microlestes fulvibasis (Reitter 1900)
WMED	3.02	159.6. Microlestes gallicus Holdhaus 1912
IBMG	6.03	159.7. Microlestes ibericus Holdhaus 1912
TSER	1.14	159.8. Microlestes luctuosus luctuosus Holdhaus 1904
WMED	3.02	159.9. Microlestes mauritanicus (Lucas 1846)
CAER	1.07	159.10. Microlestes maurus maurus (Sturm 1825)
ASER	1.04	159.11. Microlestes minutulus (Goeze 1772)
TUME	1.11	159.12. Microlestes negrita negrita Wollaston 1854
IBMG	6.03	159.13. Microlestes phenax Antoine 1940
ENDE	6.00	159.14. Microlestes reitteri Holdhaus 1912
SOER	2.04	159.15. Microlestes seladon Holdhaus 1912
TEUM	1.09	160.1. Paradromius (Manodromius) linearis linearis (Olivier 1795)

DISTR.	CODE	Species
EURP	2.01	160.2. Paradromius (Paradromius) longiceps (Dejean 1826)
ENDE	6.00	160.3. Paradromius (Trichodromius) baeticus Nègre 1958
ENDE	6.00	160.4. Paradromius (Trichodromius) espanoli J. & E. Vives 1977
TUME	1.11	161.1. Philorhizus crucifer crucifer (Lucas 1846) *
CAPR	6.04	Philorhizus crucifer confusus Sciaky 1991
WMED	3.02	161.2. Philorhizus insignis (Lucas 1846)
EUME	1.12	161.3. Philorhizus melanocephalus (Dejean 1825)
ENDE	6.00	161.4. Philorhizus mendizabali Mateu & Colas 1954
CAER	1.07	161.5. Philorhizus notatus (Stephens 1828)
ENDE	6.00	161.6. Philorhizus paulo Wrase 1995
EUME	1.12	161.7. Philorhizus quadrisignatus (Dejean 1825)
WEUR	2.05	161.8. Philorhizus vectensis (Rye 1873)
		Subtribe Lebiina
WPAL	1.03	162.1. Lebia (Lamprias) cyanocephalus (Linnaeus 1758)
SIER	1.05	162.2. Lebia (Lamprias) chlorocephala chlorocephala (Hoffmann 1803)
MEDT	3.01	162.3. Lebia (Lamprias) fulvicollis fulvicollis (Fabricius 1792)
WEUR	2.05	162.4. Lebia (Lamprias) pubipennis Dufour 1820
MEDT	3.01	162.5. Lebia (Lamprias) rufipes Dejean 1825
PALE	1.02	162.6. Lebia (Lebia) cruxminor cruxminor (Linnaeus 1758)
TUER	1.10	162.7. Lebia (Lebia) marginata (Geoffroy 1785)
TEUM	1.09	162.8. Lebia (Lebia) scapularis (Geoffroy 1785)
TUME	1.11	162.9. Lebia (Lebia) trimaculata (Villiers 1789)
		Subtribe Lionychina Jeannel 1948
WEUR	2.05	163.1. Apristus europaeus Mateu 1980
MEDT	3.01	164.1. Lionychus albonotatus (Dejean 1825)
CAPR	6.04	164.2. Lionychus maritimus Fairmaire 1862
EURP	2.01	164.3. Lionychus quadrillum (Duftschmid 1812)
WMED	3.02	165.1. Syntomus bedeli (Puel 1923)
WPAL	1.03	165.2. Syntomus foveatus (Geoffroy 1785)
MEDT	3.01	165.3. Syntomus foveolatus (Dejean 1831)
CAME	1.08	165.4. Syntomus fuscomaculatus (Motschulsky 1844)
IBMG	6.03	165.5. Syntomus impressus decorus (Bedel 1913)
TEUM	1.09	165.6. Syntomus obscuroguttatus (Duftschmid 1812)
ENDE	6.00	165.7. Syntomus truncatellus nitidulus Piochard de la Brûlerie 1867
ASER	1.04	Syntomus truncatellus truncatellus (Linnaeus 1767) *
		Subtribe Pseudotrechina Basilewsky 1984
IBMG	6.03	166.1. Pseudotrechus mutilatus Rosenhauer 1856
		Subtribe Singilina Jeannel 1949
ENDE	6.00	167.1. Singilis alternans Bedel 1905
ENDE	6.00	167.2. Singilis bicolor Rambur 1837
IBMG	6.03	167.3. Singilis soror soror Rambur 1837
		Subtribe Trichina Basilewsky 1984
TUME	1.11	168.1 Trichis maculata Klug 1832

DISTR.	CODE	Species
		Subfamily DRYPTINAE Bonelli 1810
		Tribe Dryptini
AFME	4.02	169.1. Drypta (Drypta) dentata (Rossi 1790)
AFME	4.02	169.2. Drypta (Deserida) distincta (Rossi 1792)
		Tribe Zuphiini Bonelli 1810
ENDE	6.00	170.1. Ildobates neboti Español 1966
IBMG	6.03	171.1. Parazuphium baeticum baeticum (K. & J. Daniel 1898)
TUME	1.11	171.2. Parazuphium chevrolatii chevrolatii (Laporte de Castelnau 1833)
TUME	1.11	171.3. Parazuphium damascenum damascenum (Fairmaire 1896)
IBMG	6.03	171.4. Parazuphium maroccanum (Antoine 1963)
ENDE	6.00	171.5. Parazuphium ramirezi J. & E. Vives 1976
PALE	1.02	172.1. Polistichus connexus (Geoffroy 1785)
TUME	1.11	172.2. Polistichus fasciolatus (Rossi 1790)
IBMG	6.03	173.1. Zuphium numidicum Lucas 1846
PALE	1.02	173.2. Zuphium olens olens (Rossi 1790)
		Subfamily BRACHININAE Bonelli 1810
		Tribe Brachinini
ENDE	6.00	174.1. Aptinus (Aptinidius) displosor (Dufour 1811)
LION	6.02	174.2. Aptinus (Aptinus) pyrenaeus Dejean 1825
ENDE	6.00	175.1. Brachinus (Brachinoaptinus) albarracinus albarracinus Wagner 1926 *
ENDE	6.00	Brachinus (Brachinoaptinus) albarracinus vivesi Jeanne 1985
ENDE	6.00	175.2. Brachinus (Brachinoaptinus) andalusiacus Rambur 1837
IBMG	6.03	175.3. Brachinus (Brachinoaptinus) angustatus (Dejean 1831)
ENDE	6.00	175.4. Brachinus (Brachinoaptinus) baeticus Rambur 1837
ENDE	6.00	175.5. Brachinus (Brachinoaptinus) bellicosus Dufour 1820
ENDE	6.00	175.6. Brachinus (Brachinoaptinus) olgae Arribas 1993
ENDE	6.00	175.7. Brachinus (Brachinoaptinus) pateri fuscofemoratus Jedlicka 1958
ENDE	6.00	Brachinus (Brachinoaptinus) pateri oscuratus Mateu 1958
ENDE	6.00	Brachinus (Brachinoaptinus) pateri pateri Puel 1938 *
ENDE	6.00	175.8. Brachinus (Brachinoaptinus) pecoudi navaricus Jeanne 1985
ENDE	6.00	Brachinus (Brachinoaptinus) pecoudi pecoudi Puel 1925 *
ENDE	6.00	175.9. Brachinus (Brachinoaptinus) testaceus Rambur 1837
WPAL	1.03	175.10. Brachinus (Brachinus) crepitans (Linnaeus 1768)
MEDT	3.01	175.11. Brachinus (Brachinus) efflans Dejean 1831
TUME	1.11	175.12. Brachinus (Brachinus) elegans Chaudoir 1842
MEDT	3.01	175.13. Brachinus (Brachinus) plagiatus Reiche 1868
TUME	1.11	175.14. Brachinus (Brachynidius) bodemeyeri Apfelbeck 1904
ENDE	6.00	175.15. Brachinus (Brachynidius) catalonicus Jeanne 1988
CAER	1.07	175.16. Brachinus (Brachynidius) explodens (Duftschmid 1812)
TUER	1.10	175.17. Brachinus (Brachynidius) nigricornis Gebler 1829
MEDT	3.01	175.18. Brachinus (Brachynidius) sclopeta (Fabricius 1792)
ENDE	6.00	175.19. Brachinus (Brachynidius) variventris Schaufuss 1862
WMED	3.02	175.20. Brachinus (Brachynolomus) immaculicornis immaculicornis Dejean 1826
TUME	1.11	175.21. Brachinus (Cnecostolus) exhalans (Rossi 1792)
WMED	3.02	175.22. Brachinus (Dysbrachinus) humeralis Ahrens 1812
AFME	4.02	176.1. Pheropsophus (Stenaptinus) hispanicus (Dejean & Latreille 1823)