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A Bibliography of Dunes: Earth, Mars, and Venus

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A Bibliography of Dunes: Earth, Mars, and Venus

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PREFACE

Dunes are important depositional landforms and sedimentary environments on Earth and Mars, and may be important on Venus. The similarity of dune forms on Earth and Mars, together with the dynamic similarity of aeolian processes on the terrestrial planets indicates that it is appropriate to interpret dune forms and processes on Mars and Venus by using analog studies.

However, the literature on dune studies is large, and scattered in a wide variety of sources. The aim of this bibliography is to assist investigators by providing a literature resource on techniques which have proved successful in elucidating dune characteristics and processes on Earth, Mars and Venus. This bibliography documents the many investigations of dunes undertaken within the last century or so, and continues the bibliography of Warren (1969). It concentrates on studies of inland dunes in both hot and cold desert regions on Earth and includes investigations of coastal dunes only if they discuss matters of general significance for dune sediments, processes or morphology.

Likewise, work on aeolian sandstones has been excluded, except where it includes a significant discussion of modern aeolian environments. Material on planetary aeolian processes and terrestrial analogs for martian and venusian aeolian processes has been included where it relates to dunes. The bibliography includes major references to studies of aeolian sediment transport, but does not reference all studies of an applied nature, such those on desertification and dune stabilization. For a bibliography of desertification and allied topics, the reader is referred to Busche et al. (1984).

Since 1970, interest in aeolian sediments and dunes has increased considerably. This is the result of the availability of Landsat images of most desert areas; the Viking Missions to Mars; the discovery of oil and gas in Mesozoic aeolian sandstones in the western USA; and the increased development of many desert regions, especially in the Middle East and China. The size of this bibliography, compared to that of Warren (1969) reflects this increased interest.

ACKNOWLEDGEMENTS

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improved the format and ease of use of this work very considerably.

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DUNES AS A PLANETARY LANDFORM

Wind action is a major geological process modifying the surface of the terrestrial planets, especially the Earth and Mars (Greeley, 1981). Conditions on Venus, and possibly Titan, also appear to be capable of supporting aeolian processes.

Dunes on Earth

Dunes, mostly of quartz sand, but also including those composed of gypsum and volcanic sand and clay pellets, are probably the most important aeolian depositional landform, and commonly occupy between 10 and 35% of the area of most desert regions on Earth (Table 1). Dunes are most widespread in the old world deserts of Africa, Australia, the Middle East and central Asia.

Table 1
Percent of area covered by dunes in major arid regions

Arabia	26.0
Australia	31.0
Central Asia	4.5
China	5.3
Sahara	25.0
Southern Africa	16.0
Southwestern USA	0.6

Sources: Clements et al., 1963; Mabbutt, 1971; Mainguet and Canon, 1976.

Most dunes are aggregated into more or less continuous sand bodies known as sand seas (McKee, 1979a) or ergs (Wilson, 1973). Often smaller areas of dunes, such as those in the North American deserts, are termed dunefields.

On Earth, the majority of important sand seas and dunefields are located in low-latitude hot deserts (Fig. 1).

Important dune areas also occur in the cold arid and semi arid regions of Canada, the western USA and Alaska, and central Asia. Many of these dunes possess distinctive sedimentary features (Ahlbrandt and Andrews, 1978). On the margins of many currently active or unvegetated sand seas and dunefields there are extensive areas of dunes which are partly or completely inactive and vegetated. Many of these dunes were active at intervals during the Pleistocene, most recently in the period coeval with the last Glacial Maximum (Sarnthein, 1978). They provide valuable information on the extent and distribution of desert climates at these times. Also active in Glacial periods were the many periglacial dunefields, the most extensive of which were located in the northern Great Plains of the USA, and in Poland.

Dunes on Mars

Aeolian action appears to dominate the current surface geologic processes on Mars. The importance of global and regional scale dust storms and the widespread distribution of eolian deposits and landforms has been described by many investigators (e.g. Breed et al., 1979; Cutts and Smith, 1973; Christensen, 1983; Greeley, 1981; Greeley et al., 1985; Thomas, 1981, 1982; Tsoar et al., 1979; Ward et al., 1985). Extensive areas of dunes occur in the high to mid latitudes both hemispheres (Breed et al. 1979; Thomas 1982) and cover some 1.2×10^6 km² or 0.84 % of the planet's surface. Those in the northern hemisphere lie mostly in the North Polar sand sea (Tsoar et al., 1979) in

which 90% of Martian dunes are situated. This is the largest sand sea known, and covers an area of $7 - 8 \times 10^5 \text{ km}^2$ (Tsoar et al., 1979).

The dunes of the southern hemisphere are situated mainly within craters, between latitudes -40 and -60° and longitudes $160 - 225^\circ$. There are also a number of small dunefields in equatorial regions.

Dunefields in both hemispheres appear to be dominated by crescentic and barchan dunes (Breed et al., 1979; Tsoar et al., 1979), indicating a basically unidirectional wind regime. Reversing crestlines were, however, recognised by Tsoar et al. (1979). Cutts and Smith (1973) identified reversing and star-like dunes in some southern hemisphere intra crater dunefields, suggesting that seasonal wind direction changes probably occur.

The relationship between dune patterns and formative winds remains uncertain and there is poor agreement between the alignment patterns of the dunes and published models of wind patterns (Ward and Doyle, 1983). This may suggest that, in part, the dunefields are paleoforms, which may have originated in periods when Martian atmospheric density was higher (McCauley et al., 1979). Breed et al. (1979) present evidence to show that some North Polar Sand Sea dunes are eroding today, or being modified under a long-term change in wind regimes. In contrast, Tsoar et al. (1979) and Ward and Doyle (1983) present evidence to indicate that the dunes of the North Polar Sand Sea are currently active. Thomas (1981) suggests southern hemisphere dunefields are aligned with current winds.

The dunefields of Mars, especially the North Polar Sand Sea, represent major accumulations of sediment. The source of this sediment and the conditions under which it has accumulated as dunefields are still a matter of controversy. A major problem is a source of suitable sand-sized material for dune building. Potential sources include the weathering products of basaltic lava flows (Tsoar et al., 1979); the Polar layered deposits (Breed et al., 1979; Thomas, 1982) or the fretted terrain of high latitude southern hemisphere regions (McCauley et al., 1981).

It is clear that, despite the work of many investigators, important questions remain to be answered about the nature of dune patterns on Mars and their relationship to past and present dune-forming winds; as well as the role of dunes in global and regional scale sediment transport patterns on the planet.

Dunes on Venus.

The potential for aeolian processes on Venus has been shown by theoretical (Iversen et al., 1976) and wind tunnel studies (Greeley, Iversen et al., 1984). Venera images (Basilevsky et al., 1984) also show structures that could be aeolian bedforms.

Greeley, Marshall & Leach (1984) have produced small aeolian bedforms in a simulated Venusian environment. These bedforms, termed microdunes, are believed to be true dunes analogous to those on Earth and form at low wind velocities. Greeley and his co-workers propose that the microdunes are capable of very rapid rates of movement and may grow into large features



Fig.1. Distribution of major low latitude sand seas.

FACETS OF DUNE STUDY

Studies of dunes have concentrated on three main areas.

1. Description of dune forms and patterns

Initially, description of dune forms was made in the course of ground investigations, often during the exploration of desert regions. Names for the forms (seif, silk, barchan, zibar etc.) were derived from the rich terminology of desert landforms employed by the local population (e.g. Bagnold, 1951). Later investigations (e.g. Monod, 1958,1961; Smith, 1963; Mainguet and Callot, 1974) utilised aerial photography to great advantage in their descriptions. As a result, data on dune patterns and trends became more widely available (Wilson, 1972b,1973). In the 1970's, the availability of satellite images of desert regions made it possible to study the dune patterns of whole sand seas with relative ease and led to the realisation

that basic dune forms in different sand seas are remarkably similar, contrary to the views expressed earlier (e.g. Warren, 1969). The results of this phase of dune study are synthesised by McKee (1979a).

Dunes were unrecognised on other planets until the Mariner 9 mission to Mars (Cutts and Smith, 1973). The higher resolution of the Viking orbiter images showed the extent and nature of dunes on Mars, which are apparently very similar in form to those on Earth (Breed, 1977; Tsoar et al., 1979; Breed et al., 1979). This suggests that similar processes are involved in their formation and dynamics and that use of terrestrial analogs is appropriate in the study of martian dunes.

The vast amount of data from remote sensing of desert dunes has prompted studies of the morphometric characteristics of dune patterns and shown their very considerable regularity over wide areas (e.g. Breed

and Grow, 1979). The realisation that dunes of similar characteristics occur in widely separated sand seas has focused attention upon the factors which control their morphology and morphometry (e.g. Fryberger, 1979; Breed and Grow, 1979; Lancaster, 1983a; Wasson and Hyde, 1983a,b). Although the amount of environmental information, especially data on wind speed and direction, is still limited in most desert regions, it is possible to demonstrate the important role of wind regimes, especially their directional variability, in determining dune morphology. Despite the efforts of Wilson (1972b), little progress has been made on understanding the factors which ultimately control dune size and spacing.

2. Studies of dune sediments

Studies of dune sediments have concentrated upon investigations of grain shape, colour and mineralogy; grain size and sorting characteristics; and sedimentary structures in dunes.

Many investigations of dune sediments have been linked to attempts to positively identify sands in the rock record as aeolian and so to characterise their depositional environments. This has frequently involved comparisons of aeolian sands with those deposited in marine, coastal, fluvial or glacial environments (e.g. Muiola et al., 1974; Visher, 1969). However, recent work has shown that the use of textural parameters (grain size, sorting) is unreliable as an indicator of depositional environments (Ahlbrandt, 1979). Consequently, attention has turned to studies of the variability of grain size and sorting parameters of dune sands over individual dunes (e.g.

Barndorff-Nielson et al., 1982; Chaudri and Khan, 1981; Lancaster, 1981c; Vincent, 1984) and within sand seas and dunefields (Ahlbrandt, 1975; Lancaster and Ollier, 1983; Wasson, 1983b).

Studies of sedimentary structures in dunes were pioneered by McKee (1966, 1982) and have provided much valuable information on the ways in which dunes accumulate. However, the logistics of carrying out such studies in most desert regions have prevented their full potential from being realised. Recent work has been concerned with the identification and description of small scale sedimentary structures associated with primary aeolian depositional processes (Hunter, 1977a; Kocurek and Dott, 1981) as well as experimental and theoretical investigations of aeolian deposition (e.g. Fryberger and Schenk, 1981; Rubin and Hunter, 1982).

3. Studies of dune processes

Investigations of dune processes have concentrated on two main topics:

(a) The physics of grain movement by the wind; and (b) The movement and dynamics of dunes.

Although not directly related to investigation of desert dunes, studies of the physics of grain movement by the wind provide the basis of our knowledge of aeolian processes and sand transport rates. Many investigations are still strongly influenced by the seminal work of Bagnold (1941). In recent years debate on the nature of aeolian processes on other terrestrial planets, notably Mars and Venus, has led to a re-examination of the physics of grain movement (e.g. Iverson et al., 1976, White, 1979) and the nature of aeolian saltation (Greeley

et al., 1983). Consideration has been given to the effects of grain density and mineralogy and grain shape on sand transport rates (Gerety and Slingerland, 1983; Willetts, 1983). Problems in using Bagnold type sand transport equations in the absence of reliable meteorological observations in many desert regions have suggested new theoretical (Lettau and Lettau, 1978) and empirical (Hsu, 1973) equations.

Studies of the movement of dunes, especially those of barchan type, have had a long history. A consistent inverse relationship between the rate of movement of barchans and their height has been established from a variety of areas (e.g. Finkel, 1959; Long and Sharp, 1966; Hastenrath, 1967; Tsoar, 1984). Little is known, however, about the nature and rate of movement of other dune types, such as linear and star dunes.

In recent years, there have been important advances in the knowledge of dune processes through careful study of winds and sand movements on individual dunes (e.g. Howard et al., 1978; Tsoar, 1978, 1983; Warren and Knott, 1983; Lancaster, 1985; Livingstone, 1986). These studies have given rise to a new understanding of the factors which influence the dynamics and morphology of barchan and linear dunes, and demonstrate the

importance of secondary airflow in controlling dune morphology.

Investigations of sand sea growth and dynamics are potentially very difficult to carry out, although Wilson (1971b) Mainguet (1978) and Fryberger and Ahlbrandt (1979) have provided useful models which may be tested by detailed studies of individual sand seas (e.g. Mainguet and Chemin, 1983a; Lancaster, 1983a).

As observed by Warren (1969), investigations of dunes are geographically clustered. In part there is also a temporal pattern. For example, field investigations of the Saharan sand seas, mostly by the French, peaked in the 1950's and 1960's. Since then there have been few field studies, but many investigations using remote sensing imagery.

In recent years the best studied sand seas and dunefields have been in Australia (especially the Simpson-Strezlecki); the Namib Desert in southern Africa and the deserts of the USA. Many Middle Eastern and Asian sand seas are almost unknown to modern investigators, except through remote sensing. Extensive investigations have been also made of Pleistocene periglacial and modern cold climate dunefields in Poland, the USA and Canada.

CHARACTERISTICS OF DUNES

Dune morphology

Desert dunes occur in a variety of morphologic and morphodynamic states. This has prompted the development of a number of classifications of dune type, based upon their morphology and relationships to

formative winds. Many of these are specific to individual sand seas or dunefields (e.g. Monod, 1958) whilst others (Aufrere, 1931; Hack, 1941) are of more general application. Multitudes of local names have been applied to dunes of different types,

these are summarised and equivalents supplied by Breed and Grow (1979). The advent of remote sensing imagery has prompted further classifications of dunes based upon their external morphology (Mainguet, 1976a, 1983a; McKee and Breed, 1974a,c).

The classification of McKee (1979a) is based upon the external morphology of dunes, the position and number of slip faces, and aspects of internal structures where information is available. In this classification five basic dune types are recognised (Table 2 and Fig. 2). Comparison of dune types and wind regimes (Fryberger, 1979; Wasson and Hyde, 1983a) shows that each type occurs in a distinct environment. The proportion of dunes of different types in major sand seas on Earth is given in Table 3.

Table 2
Basic dune types (after McKee, 1979)

Crescentic	
	Barchan
	Barchanoid ridge
	Transverse ridge
Linear	
	also referred to as sand ridges, seif dunes, longitudinal dunes.
Star	
	also referred to as pyramidal dunes, rhourds, ghourds, or oghurds.
Parabolic	
Dome	

Crescentic Dunes

Dunes of a crescentic form, with a single major slip face on their lee side, are known as barchans when present as individual crescents; barchanoid ridges when coalesced to form a single ridge with a sinuous lee side slip face; and transverse dunes when the slip face is relatively straight. Such dunes mostly form in wind regimes where sand

moving winds blow from one major directional sector. They occupy approximately 39% of the area of sand seas worldwide and are dominant in many central Asian and north American sand seas and dunefields. Most martian dunes are apparently of this type (Tsoar et al., 1979).

Linear Dunes

Dunes of linear form, often referred to as longitudinal or seif dunes, are the most widespread of all dune types (Lancaster, 1982b) and occupy an average of 50% of the area of sand seas. Especially common in sand seas in Australia, the Kalahari (80 - 90% of dune area) and Saudi Arabia (65%), linear dunes are characterised by their straightness, parallelism and great length. Slip faces may occur on each side of the crest line and change orientation seasonally. Considerable controversy has surrounded the mode of origin of linear dunes and their relationship to dune forming winds (Lancaster, 1982b), but the weight of evidence suggests that they formed in wind regimes with two main directions of sand moving winds from within a 180° arc.

Star and Reversing Dunes

Dunes with a pyramidal form, radiating arms and multiple slip faces are referred to as star dunes and occupy an average of 8% of the area of most sand seas. They are particularly common in sand seas in the northern Sahara (39% of area) but are absent in the Kalahari and Australia. Star dunes often form in multidirectional or complex wind regimes and are characterised by their large size and tendency for vertical growth.

Intermediate between linear dunes and star dunes are reversing dunes, which form where winds from two main directions are opposed in direction and sand moving potential. Reversing

dunes are described from the Gran Desierto, Mexico; Great Sand Dunes, Colorado (Andrews, 1981); the Namib Sand Sea and the Victoria Valley, Antarctica (Rutford and Calkin, 1974).

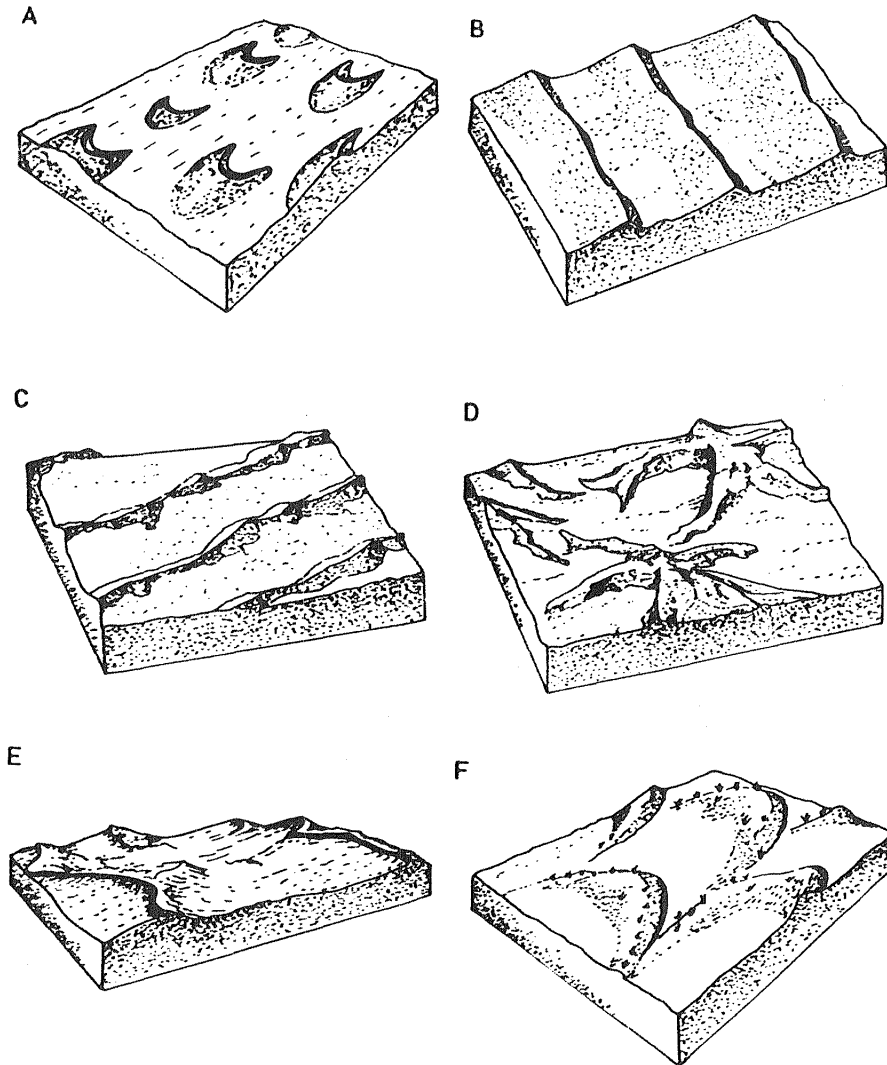


Fig. 2. Major dune types (after McKee 1979a).

A: Barchan; B: Transverse; C: linear; D: Star; E: Reversing; F: Parabolic

Parabolic Dunes

Dunes of a parabolic form occur where there is partial stabilisation of sand surfaces by vegetation. They are characteristic of many cold climate dunefields (Ahlbrandt and Andrews, 1978) and dunefields in semi arid regions (Verstappen, 1968). Allied to parabolic dunes are blow outs or deflation depressions.

Other aeolian depositional landforms

Sand surfaces known as sand sheets or streaks cover wide areas of many sand seas. Their origins are not clear (Fryberger, 1979; Kocurek and Nielson, 1986) but their formation appears to be influenced by the presence of vegetation, a high water table or coarse sand. Many sand sheets and interdune areas between linear and star dunes are formed into undulating bedforms which lack slip faces, known as zibar (e.g. Holm, 1960; Warren, 1972; Nielson and Kocurek, 1986).

Table 3

Percent of dunes of different types in major sand seas on Earth (after Fryberger and Goudie, 1981)

	Crescentic	Linear	Star	Parabolic	Dome
Sahara					
north	52.03	35.64	12.36	-	-
northeast	23.92	28.00	39.37	-	1.32
west	35.07	64.93	-	-	-
south	54.08	45.90	-	-	-
Namib	21.63	59.66	18.18	-	-
Kalahari	-	98.97	-	0.68	-
Saudi Arabia	19.47	65.03	6.97	-	-
Asia					
Thar	37.52	20.45	-	42.02	-
Takla Makan	55.55	33.29	-	-	11.14
Ala Shan	83.93	4.47	8.92	-	2.67
Average	39.07	49.53	8.11	4.75	1.46

Compound or Complex Dune types

The basic dune forms outlined above may be combined to form compound or complex varieties. Compound dunes are characterised by the juxtaposition or superimposition of dunes of the same basic type. Particularly common are compound crescentic or transverse ridges with

superimposed crescentic dunes. Such dunes are described from the Algodones dunes of California (Norris and Norris, 1961; Smith, 1978b) and the Namib coast (Lancaster, 1983a). Compound linear dunes occur in sand seas in the south western Kalahari (Goudie, 1970), the Namib (Lancaster, 1983a), Mauritania (Breed and Grow,

1979) and southern Arabian (Holm, 1960). Complex dunes result from the combination of two or more of the basic dune types. Thus star dunes may occur on crescentic ridges as in the Ala Shan and Gran Desierto sand seas (Breed et al., 1979), whilst in the Namib Sand Sea and southern Arabia star dunes and barchanoid ridges may be superimposed upon linear dune ridges (Lancaster, 1983a).

Controls of dune morphology

Remote sensing images have shown that in most sand seas, dune patterns are very regular. This is evidenced by the close correlations which exist between morphometric parameters (height, width and spacing) for all dune types (Breed and Grow, 1979; Lancaster, 1983a; Wasson and Hyde, 1983a,b).

Fryberger (1979), Wasson and Hyde (1983a,b) and Lancaster (1983a) have shown convincingly that wind regime characteristics, especially their directional variability as expressed by the ratio between resultant and total potential sand transport, are the most important control of dune morphology. Locally vegetation plays an important role (Ash and Wasson, 1983) but the influence of sand availability is controversial (Rubin, 1984) as is the role of sediment characteristics.

The importance of grain size and sorting in controlling dune spacing was emphasised by Wilson (1972b), but little empirical support for this hypothesis has been found (Wasson and Hyde, 1983). Very little is known of the factors which influence the equilibrium size and spacing of desert dunes.

Dune sediments

Most desert dunes are composed of fine to medium quartz sand, which is often moderately to well sorted (Table 4). On many dunes, grain size and sorting parameters vary in a systematic way across the dune. Thus on barchans and other transverse dunes sands become finer, better sorted and less positively skewed in the direction of sand transport from stoss to lee slope (Lancaster, 1982d; Barndorff-Nielson et al., 1982). Linear and star dunes are often characterised by coarser, less well sorted sand in basal or plinth areas of the dunes and finer, better sorted sands in crestal and slip face areas. Models which use ideas of selective aeolian transport of grains of different sizes have been put forward to explain grain size and sorting variations of linear dunes by Folk (1971) and Lancaster (1981a; 1986a).

Whereas earlier workers (e.g. Kuenen, 1959) suggested that dune sands were well rounded, modern investigations (Folk, 1978; Goudie and Watson, 1981) have produced evidence that many desert sands, especially in finer size classes, are subrounded to subangular in shape and that the shape of sand grains varies from one sand sea to another.

The red colour of desert dune sands has attracted the attention of investigators for many years. Many dune sands are light yellowish brown (10YR 6/4) to yellowish red (5YR 5/8) in colour. Dunes in semi arid areas such as the Kalahari and Australian sand seas are redder (2.5YR 5/8 to 7.5YR 5/8). It has been widely reported (e.g. Alimen et al., 1957; Logan, 1960; Wopfner and Twidale, 1967; Folk, 1976; Walker, 1979; El Baz, 1978; Anton and Ince, 1986) that

dunes become redder in the direction of transport and thus as the dune sands become older. However, Folk (1976) and Gardner and Pye (1981) suggest that colour is not necessarily a function of age and that temperature, moisture availability and dune activity are also important variables. Wasson (1983b) has also pointed to the significance of different source sediments as an influence on dune colour.

The seminal work of McKee (1957, 1966, 1982) and his co-workers (McKee and Tibbitts, 1964) on the internal sedimentary structures of dunes has shown that they consist of two types of deposits: medium to large scale cross strata with foresets dipping at angles of 30-34°, which result from grain fall and grain flow deposition on slip faces; and sets of low angle strata consisting of laminae deposited by wind ripples. Hunter (1977a) has analysed the basic stratification types of dunes and divided them into those

which accumulate primarily by deposition as ripples migrate across dune surfaces and those deposited in flow separation areas on the upper parts of slip faces. Three orders of bounding surfaces (Brookfield, 1971; Kocurek, 1981) separate sets of dune cross strata. Third order surfaces are reactivation surfaces; second order surfaces result from the migration of superimposed dunes across large forms; and first order surfaces are created by the migration of the larger dunes.

Interdune deposits are common in many sand seas, and are especially extensive in areas of linear and star dunes, but their characteristics are not well known. Depositional interdune areas are subdivided into dry, wet and evaporite types (Ahlbrandt and Fryberger, 1981). Many dry interdune areas consist of low angle strata, with abundant bioturbation and local erosion surfaces (Fryberger et al., 1979; Nielson and Kocurek, 1986).

Table 5
Grain size and sorting characteristics of sands from some sand seas

	Mean	Standard Deviation
Linear Dunes		
Kalahari	2.16	0.49
Simpson Desert	2.53	0.43
Thar Desert	2.65	0.56
Namib	2.44	0.37
Star Dunes		
Gran Desierto	2.44	0.31
Saudi Arabia	2.67	0.32
Namib	2.29	0.29
Crescentic Dunes		
Gran Desierto	2.43	0.41
White Sands	1.51	0.59
Namib	2.20	0.55
Tunisia	2.91	0.32

SUBJECT INDEX

ADHESION RIPPLES

Hunter 1973, 1974; Kocurek & Fielder 1982; Nagtegaal, 1973.

AEOLIAN BEDFORMS

Formation - see also Dunes: formation
Allen 1968,1970,1984,1986; Bloore 1980; Borsy 1976a,b; Brookfield 1977; Cornish 1897,1900a 1914,1923; El Baz & Hassan 1986c; Ellwood et al. 1975; Eltayeb & Hassan 1981,1986; Escande 1949,1953; Exner 1920,1921,1927; Fedorovich 1949, 1948a, b, 1956, 1963; Floyer 1897; Folk 1971, 1976a; Gabriel 1965; Gunther 1907; Hahmann 1912; Heller & Kunin 1933; Karmen 1953; Kennedy 1964, 1969; King 1916; Lancaster 1986c; Matchinski 1953; Norris 1956; Ostrovskiy 1977; Queney 1953; Queney & Dubief 1943; Rubin & Hunter 1982; Sokolow 1894; Tsoar 1986c; Verstappen 1972b; Veyisov 1968; Wasson & Hyde 1986; Wilson 1970, 1971, 1972a,b,c.

On Venus

Basilevsky et al. 1986; Greeley, Marshall & Leach 1984; Marshall et al. 1984.

AEOLIAN DEPOSITION - see Aeolian Sedimentation

AEOLIAN PROCESSES - see also Sand Transport by the wind

Bagnold 1954; Blackwelder 1954; Braun 1911; Bryan 1922; Clements et al. 1957;Cooke & Warren 1973; Cooke et al. 1982; Czerny 1876; Demangeot 1972; Doornkamp et al. 1980; Dokka 1978; El Baz 1984a; El Baz & Hassan 1986a; First 1965; Gabriel 1979; Goudie & Wilkinson 1977; Greeley 1986,1986a; Greeley & Leach 1978; Howe et al. 1968; McKenna-Neuman & Gilbert 1986; Mabbutt 1977; Manguet 1976a, 1985, Malin & Eppler 1981, Marker 1978; Meigs 1953,1966; Mensching 1976,1982; Nickling 1986; Paulhe 1982; Peel 1960,1966,1970, Peel et al. 1974; Petrov 1939,1975; Scheidegger 1961; Schelling 1957; Schick & Sharon 1974; Schwarzbach 1974; Sharp 1962; Smith, H.T.U. 1968b; Sprigg 1965, Stone 1967; Tricart & Cailleux 1962; Walton 1969; Warren 1979; Yair 1978.

In Russia

Federovich 1970a,b; 1974; Geld-Dyyeva & Budnikova 1985; Geresimov 1933; Tricart 1953, 1958; Zhunashov & Armageldiyev

1978, Znaminskaya 1963.

On Mars

Arvidson 1972, 1974; Arvidson & Mutch 1974; Arvidson et al. 1979; Baker 1981; Belcher et al. 1971; Breed 1971; Breed & Ward 1979; Breed et al. 1979; Christensen 1983,1986; Cutts & Smith 1973; Gad-el-Hak et al. 1975; Greeley & Iversen 1985; Greeley, Iversen et al. 1974, Greeley, White et al. 1976; Greeley, Leach et al. 1980; Greeley, Malone et al. 1980, Greeley et al. 1983; Greeley, Williams et al. 1984; Guinness et al. 1982; Iversen et al. 1973, 1976; Krinsley & Greeley 1986; Krinsley et al. 1979; Maegley 1976; Mason 1973; Megalhaes & Gierasch 1982; Pollack et al. 1976; Sharp & Malin 1984, Smalley & Krinsley 1979; Thomas 1981, 1982; White 1975, 1979; White et al. 1975, 1979; Wolfe 1979.

Research Orientations

Babayev & Friekin 1957; Coque et al. 1980, Fryberger & Goudie 1981; Leser et al. 1976; McGinnies & Goldman 1969, McGinnies et al. 1968; Seppala 1975; Tada 1975; Thomas 1986c; Wang 1960, Warren 1983,1984; Warren & Knott 1983.

On Venus

Greeley et al. 1980, 1984; Southard et al. 1982; Sundborg 1955; Swan 1962; White 1986.

Planetary Comparisons - see also Terrestrial Analogs

Greeley 1981, 1982, 1986b; Greeley & Black 1978; Greeley & Iversen 1985.

AEOLIAN SANDS - see also Dune Sediments

Ahlbrandt & Fryberger 1982; Bigarella 1972; Boyshenko 1979; Brookfield 1982, 1983, Brookfield & Ahlbrandt 1983; Dapples 1941; Emery 1954; Erinc 1962; Ginzbourg 1971; Khodzhayev 1978.

AEOLIAN-MARINE INTERACTIONS

Chan et al. 1985; Inman et al. 1966.

AEOLIAN SEDIMENTATION

Ahlbrandt & Fryberger 1982, Brookfield 1982, 1983; Collinson 1978; Glennie 1971; Khalaf & Al-Hashash 1983; Kolbuszewski 1950; McKee & Ward 1983; Remeck & Singh 1980; Smalley & Krinsley 1979; Udden 1894; Walker & Middleton 1977.

AEOLIAN SOILS

Bennett 1980; Buckley 1979 a, b, 1981 a,b, 1982b; Butler & Churchward 1983; Churchward 1961, 1963; Felix-Henningsen 1984; Gayell & Trishkovskly 1962; Gile 1966, 1975, 1979, 1981; Hemming & Trapnell 1957; Jackson 1974; Jauhainen 1970, Khanna et al. 1977; Konecka-Betley 1977; Kovda 1959; Kowalkowski 1977; Li 1965; Li Hsiao-Fang 1965; Licht 1980; McTanish 1984; MacArthur 1962; Manikowska 1977, Miles & Franzmeir 1981; Mulcahy 1973; Prescott & Piper 1932, Prusinkiewicz 1969; Pullan 1969; Ravikovitch 1953; Reifenberg 1947; Rickert & Tebrow 1967; Rim 1950, 1951a,b; Schollz 1972; Shlemon 1978, 1980; Tamhane 1952; Trushkovskiy 1970; Van Der Merwe 1954a, b; Van Rooyen & Berger 1974; Williams 1968; Yallon 1978, 1982; Vaychn 1973.

AIRFLOW OVER DUNES - see **Dunes: airflow patterns**

BARCHANS

Formation

Clos-Arceud 1965, 1971a,b,c; Howard et al. 1978; Jackel 1980; Smith, R.S.U. 1977, 1980a; Veyisov 1966; Warren & Knott 1983.

Internal sedimentary structures

Embabi 1970; McKee 1966, 1979.

Morphology

Breed et al 1980; Capot-Rey 1963; Coursin 1956, 1964; Embabi 1978, 1982; Finkel 1959; Hastenrath 1967; Kaiser 1926b; Mainguet 1979; Mityk 1982; Norris 1956, 1966; Norris et al. 1979; Petrov 1948; Pompeckj 1906; Proce 1959; Rempel 1936; Rieman 1978; Simons 1956; Smith, H.T.U. 1956a; Smith, R.S.U. 1972; Vincent Cuaz 1958, Walker & Matsukura 1979.

Movement

Ashri 1970; Barnard 1975; Embabi 1979; Finkel 1959, 1961; Gad-el-Hak et al. 1975; Hastenrath 1967, 1978; Hunting Surveys 1977; Ivanov 1982; Ivchenko 1908, 1910a; Kaiser 1926b; Khodhayev 1983a,b; Landic 1979; Lee 1984; Lettau & Lettau 1969, 1978; Lindsey 1973; Long & Sharp 1964; McKee & Douglass 1971; Norris 1966; Ricard 1980; Simons 1956; Smith, R.S.U. 1970; Trembakowski 1961; Tsoar 1974; Veyisov 1971; Veyisov & Landic 1974.

Sediments

Adylkhodzhayev & Fazilov 1979; Alimen 1953b; Alimen et al. 1958; Amstutz &

Chico 1958; Christensen 1973; Coude-Gaussen & Rognon 1982; Gripp 1961; Finkel 1959; Watson 1986; Nagtegaal 1973; O'Brien 1972.

BOOMING DUNES - see **Sound Producing Dunes**

CINDER-ASH DUNES

Chenwoith & Colley 1960; Koscielniak 1973.

CLAY DUNES - see also **Lunettes**

Bowler 1973; Coffey 1909; Dare-Edwards 1979,1982,1984; Dangaus 1979; Huffman & Price 1949; Perthuisot & Jauzein 1975; Price 1933,1958,1963; Rabasso 1975; Ross 1960; Stelting & van de Wernen 1981; Teller 1972.

COPPICE DUNES - see also **Nebkha, Shadow dunes**

COLD CLIMATE DUNES - see also **Pleistocene Periglacial Dunes.**

Formation

Churska 1969; Gardziel 1979; Kobenzina 1969, Koster 1984; Seppala 1971.

General features

Ahlbrandt & Fryberger 1982; Cameron 1969; Fristrup 1952; Miotke 1981; Seppala 1972a,1961,1975; Smith, H.T.U. 1949a.

Morphology

Alaska

Walker 1967.

Antarctica

Calkin & Rutford 1974; Lindsey 1973; Mather and Miller 1966; Rutford & Calkin 1974; Selby et al. 1974

Canada

David 1977b, 1978, 1979b, 1981, 1982; Dionne 1978; Fillion & Morisset 1980; Gauymond 1962; Hermesh 1972; Lovell 1962; MacFarlane 1972; Pissart 1975; Pissart et al. 1977, Rochette & Cailleux 1971; Row & Abouguena 1982; Smith, D G. 1980.

Finland

Aartolahti 1972; Seppala 1971,1972.

Germany

Hartnack 1925,1931; Jentsch 1900; Kaubler 1974; Kretschmer et al. 1971; Musset 1923; Nowel et al. 1972; Priesmier 1970; Reinecke 1903; Roth 1900; Solger 1910a,b; Theilen 1978; Wildvang 1936

Greenland

Belknap 1928.

Norway

Klemsdal 1969

Poland

Galon 1959,1969a,b; Gawlik 1979; Izmailow 1978,1984; Jahn 1972; Kristapavichus 1968; Krol 1922; Lencewicz 1922; Malakowski & Lencewicz 1953; Schoeneich 1958; Szczepk 1980; Urbaniak 1969b; Urbaniak-Biernacka 1976.

Sweden

Agrell 1980,1981, Horner 1927; Seppala 1972a,b.

USA

Ahlbrandt 1973,1974a,b,1975,1982; Ahlbrandt & Andrews 1977,1978; Carlisl & Marrs 1982; Gaylord 1979,1982; Hickock et al. 1982; Kolm 1973,1974,1982,1985; Kolm & Marrs 1972; Kolm et al. 1975; Lehotsky 1972; McKenzie 1982; Patrone 1970; Steidtmann 1973,1982; Wilson 1980.

USSR

Demn 1973,1974.

Processes

Borsy 1971,1972,1974, Galon 1969a; Hansen 1957; Hopkins 1935; Jahn 1972; Jonassen 1954; Krafewski 1977; Kulhman 1957; Landsberg & Riley 1943; McFarlane 1972; McKenna-Neuman & Gilbert 1986; Miotke 1974; Nickling 1976; Pissart 1966, 1975; Seppala 1972c; Witek 1970; Pyritz 1974.

Sediments

Ahlbrandt 1975,1979,1982; Ahlbrandt & Andrews 1978,1982; Borowka 1979; Dylkowa 1969a; Evans 1944; Florek 1975,1980; Galon 1969a; Galloway 1982; Koster 1978,1982; Krygowski 1958; Mettler 1955; Mycielsska-Davigallo & Kzywoblocka-Lavrov 1975; Nowaczyk 1976b,1977; Penarowski 1959; Seppala 1969; Urbaniak 1962,1966,1969a; Urbaniak-Biernacka 1973a,b,1976b; Warren 1976; Witek 1969; Wojtanowicz 1970.

CRESCENTIC DUNES - see Barchans, Transverse Dunes

DEFLATION

Andreichuk 1982; Babayev & Chrednichenko 1972; Bayramov 1971; Belgibayev 1975, Borsy 1964,1971,1972,1974; Durand 1953.

DOME DUNES

Holm 1953,1960.

DUNES

Airflow patterns

El-Sherbiny & Bofah 1982; Gad-el-Hak et

al. 1975; Howard et al. 1978; Howard & Walmsley 1985; Hoyt 1966; Jensen & Zeman 1985; Kamichika et al. 1981; Lai & Wu 1978; Lancaster 1985a; Landsberg 1942; Landsberg & Riley 1943; Livingstone 1986; Marrs & Kolm 1982; Richards 1986; Tsoar 1978,1985; Tsoar et al 1985; Walmsley & Howard 1985; Warren & Knott 1983; Wojciechowski 1979.

Bibliographies

Busche et al. 1984; Kobendzina & Urbaniak 1969; Niessen et al. 1984; Warren 1969.

Classification

Clos-Arceuduc 1972; Crowe 1975; Holtenburger 1913; Kadar 1977; McKee 1979a; Mainguet 1976d,1983a,1984b; Mainguet & Chemin 1983; Melton 1940, Smith, H.T.U. 1940b, 1953.

Conservation

Buckley 1982a.

Crusts

Barbey & Coule 1976.

Dating

Huhou 1983; Jonassen 1954; Linke 1968; Pye & Singhvi 1982; Setlow 1978; Singhvi et al. 1982; Squires 1963.

Formation - see also Aeolian Bedforms formation

Anthropogenic Influences on

Cherednichenko 1970, Conacher 1971

Moisture Content

Gupta 1979; Mann et al. 1976

On Mars

Breed 1977; Craig et al. 1980; Greeley 1968, 1979; Leach 1979; McCauley et al 1981; Smith, R.S.U. 1980c, Thomas 1982; Tsoar et al. 1979; Tsoar & Greeley 1980; Ward & Doyle 1983; Ward et al. 1985.

Role in landform development

Busche & Hagedorn 1980; Lang 1964; Lustig 1969; McGinnies 1979.

DUNE MORPHOLOGY

Alimen & Mercier 1948; Anon 1983; Aufrere 1928a,1929; Bashin 1899, 1900,1903; Beadnell 1909a; Breed & Grow 1979; di Caporiacco 1936; Cornish 1908, 1928; Corsi & Warrick 1984; Molm 1968; Howard 1975; Jennings & Hagedorn 1983a,b, Petrov et al.1979; Ritter 1898, Smith, H.T.U. 1946,1969; Yate 1894.

Controls on

Mabbutt 1982; Rubin 1984; Walther 1951; Wasson & Hyde 1983a.

Sediments

Bellair 1962; Lancaster 1983a; Tsoar 1986a; Warren 1972,1974; Wasson & Hyde 1982,1983b; Wilson 1972.

Wind regimes

Aufrere 1928b,1930,1932; Bagnold 1953b, Besler 1972b; Brookfield 1970; Capot-Rey & Capot-Rey 1948; Carlisle & Marrs 1982; Clos Arceduc 1967; Enqist & Frederick 1932; Fryberger 1979; 1980; Landsberg 1956; Lancaster 1983a; Mainguet 1982b; Mainguet et al. 1974; Martin & Nairn 1975; Reid 1985; Rosenenan 1954; Smith, R.S.U. 1978a,1979; Tsoar 1974, 1985; Warren 1970,1972,1976a.

Descriptions

Arabian Peninsula

Bagnold 1951; Besler 1982b; Beydoun 1966; Breed et al 1979; Cavellier 1970; Embabi & Ashour 1983; Holm 1960; Jawad & Al-ani 1983; Lamare 1933.

Australia

Breed et al 1979; Coaldrake 1954; Daniels 1969; Graetz et al. 1982; Hills 1939b, 1953; Jutson 1918,1934; Laut et al 1977; Mabbutt 1961,1962,1963,1967,1968,1969,1971,1977,1980,1984; Mabbutt et al. 1963; Madigan 1930,1938,1945,1946; Purdie 1984; Simonett 1949; Smith et al. 1975; Twidale 1972b,1980,1981b; Walker 1982; Wasson 1976; Williams 1979, Wopfner & Twidale 1967.

Central Asia

Berkey & Morris 1927; Lang & Pias 1971; Petrov 1960,1966,1967; Selivanov 1961,1969; Tada 1963; Ting 1958; Trebacowski 1969,1976; Yepifanov 1973.

China

Academia Sinica 1979; Breed et al 1979; Buckley et al. 1986; Chao Sung-Chiao 1981a,b,1984a; Gao Zhaoshan 1985, Hedin 1896,1905; Horner 1936,1937; Jorre 1936; Liu 1952; Walker 1982; Yang et al. 1982; Yu et al. 1962; Zu Zenda 1979, 1984; Zu Zenda et al. 1980.

Indian sub-continent

Abu Bakr 1963; Ahiya et al. 1980; Biswas 1966; Blanford 1876,1877; Breed et al 1979; Mukerji 1961; Narusi 1975,1977; Oldham 1903; Pandey 1971; Saxena & Singh 1977; Singh 1977a; Singh et al. 1972; Snead 1966; Tale 1904; Verstappen 1970

Iraq

Al-Saadi 1972.

Israel

Tsoar 1970,1974.

Kalahari

Breed et al 1979; Goudie 1969, 1970; King 1939, 1978; Leser 1972; Lewis 1936; McKenzie 1952; Range 1936, Rogers 1934, 1936; Thomas 1986a.

Mexico

Greeley, Christensen et al. 1984; Heine 1972; Ives 1959; Marston & Schmidt 1981; May 1973; Schimidt & Marston 1983.

Middle East

Beaumont et al. 1976; Gabriel 1938,1957; Hallier 1976; Johnstone & Wilkinson 1960; Kaul & Thalen 1979; Perez & Oviedo 1985; Petrov 1971; Selivanou 1982; Wirth 1958.

Namib

Barnard 1973; Besler 1972a, 1977b,1980; Breed et al 1979; Bremner 1984; Do Amaral 1982; Gevers 1936; Goudie 1972; Harmse 1980; Kaiser 1926a,b; Kayser 1973; King 1939,1978; Lancaster 1980, 1982a, 1983a; Leser 1971; Logan 1960, 1969; McKee 1982a; Martin 1950; Michel 1979b; Rust & Weinecke 1976; Seely 1975,1978; Shackley 1980,1982; Soares de Carvalho 1961; Spreitzer 1963; Trenk 1910; Watson & Lemon 1985; Wilmer 1894.

New Zealand

Cockayne 1911.

Peru

Bailey 1899; Barclay 1917; Broggi 1961; Douglass 1909; Dresch 1961; Grolier et al 1979; Harrington 1961; Kinzl 1958; Lettau & Lettau 1978; Simons & Ericksen 1953.

Sahara

Aufrere 1935; Bellair 1938a; Breed et al 1979; Capot-Rey 1953b; Carnier 1891; Chudeau 1900, 1907,1909a,1911,1920; Clos Arceduc 1969b; Dufour 1936; Gautier 1935; Hachisuka 1932, Jordan 1965; Le Lubre 1950,1952; Matschinski 1954; Perret 1961; Rolland 1881; Schiffers 1971a,b,1973a, Smith, H T.U. 1969; Sourdat & Gense 1970; Williams & Hall 1965,Wilson 1971.

Sahara - Central

Biro et al. 1955; Chudeau 1907; Grove 1960; Hagedorn 1971 ,1974, 1979a,b; Meckelein 1960; Peel 1979.

Sahara - Egyptian

Bagnold 1931, 1933a,1935a; Beadnell 1901,1909b,1910,1934; Butzer 1961; Cornish 1900b; Embabi 1967; Forth de Lancey 1930; Gegengack & Underwood 1980; Hume 1909,1921,1925; Hurst 1909; Kadar 1934; Kamel 1953; Kamel et al. 1982; King 1912, McCauley et al 1980; Mitwally 1953; Pribly 1970; Said 1962,1983; Sandford 1933a,b,c, 1935,1953; Shaw 1936; Simons 1973; Squyres & Bradley 1964; Wingate 1934; Wright 1945; Yakubov 1968.

Sahara - Libya

Crema 1953; Kanter & Schiffers 1973.

Sahara - Northern

Besler 1977a,1984; Capot-Rey 1941, 1943,1945,1947,1953a; Flamand 1899,1919; Grandet 1955, 1957; Matschinski 1952; Passarge 1940; Suzuki 1978; Verlaque 1958.

Sahara - Southern

Chudeau 1910,1915a,1918; Cresch & Rougerie 1960; Hagedorn 1968; Schiffers 1973b; Tricart 1959,1965; Tricart & Brochu 1955; Tricart et al. 1960; Urvoy 1933a,b, 1936; Worrall 1974.

Sahara - Western

Aubrinieres 1935; Barbey 1971; Bayard 1947; Chamard & Courel 1975; Chudeau 1909b,1910,1915b; Daveau 1965; Monod 1928,1958,1961,1962; Sall 1973; Sevenet 1943; Suter 1973; Tricart 1955.

Somalia

Hassan 1980.

South America

Enock 1908; Khobzi 1981; Le Carpentier 1973; Martin et al. 1979; Picard 1977; Roa Morales 1973; Segerstrom 1964; Tricart 1966; Tricart & Alfonsi 1981.

Syria

Kosmowska-Suffczynska 1980; Mycielska - Davigallo 1980.

USA - South West

Andrews 1978,1981, Bender 1982; Burford 1961; Crosswhite & Crosswhite 1982; Dean 1978b; Dregne 1984; Eardley & Earl 1981; Elson 1984; Fowler & Koch 1982; Greeley et al. 1978; Green 1961; Hack 1941; Hefley & Sidwell 1945; Johnson 1967,1968,1971; Kampe 1979; Larson 1970; Mac Dougal 1912; Mac Mahon 1979; Medellin-Leaf 1982; Pool 1913; Merk 1960,1973; Morrison 1985; Murburger 1950, Price 1944; Roberts 1970; Roethele 1981; Rowlands et al. 1982, Russell 1932; Sharp 1966, 1978, 1982; Smith, R.S.U. 1978c,1982; Watt 1969; Wegeman 1939; Wiegand 1977; Wilde 1982.

USA - California

Beheiry 1967; Dean 1978a; Evans 1962; Eymann 1953; Garrett 1966; Reed 1930; Smith, R.S.U. 1984; Thompson 1929.

USSR

Atakhonov 1983; Breed et al 1979; Bykov 1932; Bylov 1981; Doscatch 1948; Dobiansky 1928; Gherismov 1931; Gorelov et al. 1984; Heller 1932; Khodzhayev 1974,1978; Lebedev 1978; Leontev & Foteyeva 1965; Melamed 1969; Nevyazhskii 1970; Nevyazhskii & Biozheiv 1960; Nikiforov 1960; Ovchinnikov 1970; Petrushevskii 1937; Rachkovskaya & Gunne

1980; Rahkmatov & Nazorov 1982a,b.

DUNE MOVEMENT

Andreichuk 1985; Beckwith 1951; Brera 1979; Busch & Besler 1982a,b; Cowles 1911; Kocurek & Oakes 1985; Nigra 1974; Rim 1948,1958; Watson 1985.

DUNE PROCESSES

Aime & Penven 1982; Chu Chen Ta 1963; Chu Chen Ta et al. 1961; Cooper 1958,1967; Kolm 1982.

DUNE SEDIMENTS

Ahlbrandt & Fryberger 1982; Backhaus 1972; Bagnold 1933b; Barbey et al. 1975; Brown 1959; Cailleux 1952a; Chain 1963; Glennie 1970; Goudie et al. 1979; Grabau 1913; Jones 1959; Kimura et al. 1970; Kocurek & Nielson 1985; Kuenen 1959; McKee 1976; McKie 1899; MacCarthy 1935; Marker 1979; Misra & Verma 1957; Monod & Cailleux 1945; Moss 1962; Pettijohn et al. 1972; Sidorenko 1956; Smith & Snead 1961a,b; Steidtmann & Haywood 1982; Whincup 1944.

Analysis

Dalsgaard & Sorensen 1985; Dalsgaard & Jensen 1985; Hand 1967; Harris 1958 a,b; Moiola & Spencer 1979; Moiola et al. 1974; Reed et al. 1975.

Bioturbation

Ahlbrandt et al. 1978.

Color

Anton & Ince 1986; El Baz 1978a; El Baz & Hassan 1986b; Folk 1976b; Gardner 1981,1983, Gardner & Pye 1981; Herzig & El Baz 1980; McKay et al. 1980; Norris 1969; Prestel et al. 1979; Price 1962; Pye 1981,1983; Setlow 1978; Van Houten 1973; Walker 1967,1979; Wasson 1983c.

Diagenesis

Pye 1983; Schenk & Fryberger 1986; Schmanlz 1968; Van Houten 1973; Walker 1967,1979.

Grain size and sorting characteristics

Ahlbrandt 1979; Alimen 1953a,b; Alimen et al. 1957,1958; Alimen & Fenet 1954; Anton 1983; Ashour 1983; Baba & Komar 1981; Bagnold & Barndorff-Nielsen 1980; Barndorff-Nielsen & Darroch 1981; Barndorff-Nielsen & Christensen 1985; Barret 1930; Besler 1983b; Binda 1983a,b; Binda & Hildred 1973; Capot Rey 1965; Chakrabarti 1965,1968; Chaudri & Khan 1981; Cotera 1976; Cui et al. 1983, Flenley 1985; Folk 1962,1968,1970,1971; Franzmeir 1970; Freidman 1961,1973,1979;

Galloway 1982; Glennie 1970; Hamdam 1956; Harris 1955,1957; Jaskowi & Kowalski 1977; Keller 1945; Lomborunczen et al. 1976; Mason & Folk 1958; Mattev 1982; Moiola & Weiser 1968; Newell & Boyd 1955; Petrov 1961,1962; Seppala 1969; Sevon 1966; Shephard & Young 1961; Sidwell & Tanner 1939; Simonett 1960,1961; Skocek and Saadallah 1972; Sneh & Weisbrod 1983; Taira & Scholle 1979; Thomas 1986b; Tricart & Mainguet 1965; Tsoar 1976; Tucker & Bacher 1980; Udden 1898; Van Rooyen & Verster 1983; Vincent 1985; Visher 1969; Vossmervaumer 1974; Wyrwoll & Smyth 1985, Xing-Zhen & Zhong-Hai 1981.

Grain size & sorting - spatial variations

Barndorff-Nielsen et al. 1982; Carroll 1944; Lancaster 1981c,1982c,d,1986a, Vincent 1984; Watson 1986.

Grain shape

Beal & Shepard 1950; Cailleux 1952b; Folk 1969,1978; Glennie 1970; Goudie & Watson 1981; Hamdam 1965; Herzig & El Baz 1980; Jaskowi & Kowalski 1977; Khalaf & Gharab 1985; Krumbein 1941; McKie 1897; MacCarthy & Huddle 1938; Mattaax 1955; Mazullo et al. 1984,1986; Nielson 1985; Petro & Sahu 1977; Rust & Wienecke 1973; Sahu 1982; Seppala 1969; Twenhofl et al. 1945; Winklenden 1971.

Grain surface texture and morphology

Al Saleh & Khalaf 1982; Baker 1976; Barbey et al. 1974; Bigarella et al. 1973; Bond 1954; Cailleux 1972, Cailleux & Wuttke 1964; Galloway 1922; Griffin 1983; Kaldi et al. 1979; Krinsley & Doornkamp 1973; Krinsley & McCoy 1979; Krinsley & Smalley 1972; Krinsley & Takahashi 1962; Krinsley & Cavellero 1970; Krinsley & Wellendorf 1980; Kuenen & Perdok 1961,1962a,b; Margolis & Krinsley 1971; Mycielska-Davigallo & Kzywoblocka-Lavrow 1975; Smith & Whalley 1981; Veblen et al. 1981.

Internal structures

Allen 1984; Besler 1981; Brookfield 1977; Ellwood & Howard 1981; Fryberger & Schenk 1981; Glennie 1970; Goldsmith 1973; Hunter 1973,1974,1977a,b,1980; Hunter & Rubin 1983; Hunter et al. 1983; Ivchenko 1910b; Kocurek 1986; Kocurek & Dott 1981; Lewis & Titheridge 1978; McKee 1957,1966,1969,1978,1982,1983; McKee & Tibbetts 1964; McKee & Bigarella 1979; McKee et al. 1971; Mozhaev et al. 1984; Schenk 1983; Smith, H.T.U.

1942; Steidtmann 1982; Steidtmann & Haywood 1973; Swinehart 1972,1986; Thompson 1932; Yaalon & Laronne 1971.

Mineral Composition

Baillieul 1972,1973,1975; Bellair 1938b, 1939,1941,1943,1945,1953b; Bigarella et al. 1973; Binda 1972; Briggs 1983; Burford 1961; Curtis 1983; Fryberger et al. 1983,1984; Herzig & El Baz 1980; Minarikowva 1973; Mizutani & Suwa 1966; Petrov 1961,1962; Raukas 1968; Rim 1953a,b; Skocek & Saadallah 1972; Stuart 1924; Tsoar 1976; Wasson 1983c.

Porosity

Kolbuszewski 1953; Kolbuszewski et al. 1950

Provenance

Abbott 1980; Ahlbrandt 1974a; Al-Saadi 1972; Bryan & McCann 1943; Cayeux 1928; Cotera & McCauley 1977; Coude-Gaussen et al. 1982; Goudie & Sperling 1977; Hsu Chun-Min 1965; Hutchinson 1969; Ives 1959; Lancaster & Ollier 1983; McCoy et al. 1967; Mainguet & Vimeaux-Richeux 1981; Mainguet et al. 1983; Merriam 1969, Poldervaart 1957, Rogers 1977, 1979; Segerstrom 1962; Selivanov 1969; Snead & Frishman 1968; Wasson 1983c; Zielinska 1980.

Texture - see grain size and sorting characteristics

DUNE STABILISATION

Academia Sinica 1958,1962a,b; Alvarez de Benito 1974; Anon 1950; Babayev 1978; Dewers 1935; Dougremijl & Kaul 1972; Godfrey 1974; Hagedorn et al. 1977; Kaul 1970, Kerr & Nigra 1952; Lehotsky 1972; Leone 1953; Petrov 1983; Phillips & Willetts 1978; Tsurieil 1974; Watson 1985; Woodhouse 1978.

DUNE VEGETATION

Ayyad 1973; Buckley 1979a,b,1981a,b, 1982b; Conacher 1971; Crocker 1946; Dieren 1934; Evaenaru et al. 1985; Goldsmith 1973; Goodall et al. 1979; Hermesh 1972; Kobenza 1970; Kobenzina 1969; Leistner 1967; Randell 1958; Rempel 1936, Robinson & Seeley 1980, Satterwhite & Ehlen 1981; Schulze & Whitney 1986; Story 1982.

DUNEFIELDS - Quaternary History
see also Sand Seas Quaternary History
Japan

Nugata Ancient Dune Research Group

- 1974,1978; Nishizawa 1978; Tada et al. 1971; Tomioka et al. 1974.
- South America**
Tricart 1961,1969,1974,1977.
- USA - Southwest**
Christian 1970; Clarke 1979; Clements 1977; Dohrenwend et al. 1984; Dorn 1986; Evans 1963; Evans & Meade 1945; Everard 1964; Mehringo & Wingand 1986; Schulz 1980; Smith, H.T.U. 1967; Wells 1983; Wells et al. 1982.
- ERGS - see Sand Seas**
- FIXED DUNES - see Dunefields or Sand Seas - Quaternary History**
- GYPSUM DUNES - see also Lunettes**
Eardley 1962; Jones 1953; McKee 1966; Talmage 1932, Trichet 1963,1968.
- INTERDUNE SEDIMENTS**
Ahlbrandt 1979; Ahlbrandt & Fryberger 1981; Folk 1968,1970; Fryberger et al. 1983; Kocurek 1981,1986; Sharp 1979; Simpson 1983; Simpson & Loope 1985; Yaalon & Ward 1982.
- LINEAR DUNES**
Formation
Crowe 1975; Folk 1971,1976a; Hanna 1969; Hastings 1971; Higgins et al. 1974; Hunter et al. 1983; King 1956,1960; Lancaster 1980b, 1982b 1983c; Livingstone 1986; Mabbutt & Sullivan 1968; Monterin 1935; Price 1950; Rosenan 1954; Striem 1954; Tseu 1986; Tsoar 1978a,b, 1983a,1982; Tsoar & Moller 1986; Twidale 1972a, 1981a; Verstappen 1968,1972b; Wasson 1983a,c.
- Morphology**
Barnard 1973; Bienman 1982; Breed & Breed 1978,1979, Breed & Grow 1979; Breed et al. 1984; Buckley 1979a,b,1981a,b,1982b; Clarke & Prestley 1970; Clos Arceduc 1969b,1973a,b; Daniels 1969; Flint & Bond 1968; Folk 1970; Lancaster 1981a, 1982b,c,1983c; Lewis 1936b; Mabbutt 1962,1968; Mabbutt & Wooding 1983; Mabbutt et al. 1969; Madigan et al. 1969; Price 1964; Thomas 1986a; Twidale 1972a,b,1980,1981a; Wopfner & Twidale 1967.
- Movement**
Besler 1975; Ward 1984; Ward & Von Brunn 1985.
- Processes**
Besler 1986; Livingstone 1986; Tsoar 1978a,b,1983a,1985,1986b; Tsoar & Yaalon 1983.
- Sediments**
Grain size and sorting characteristics
Alimen 1953b; Alimen et al 1958; Besler 1976,1980; Carroll 1946, Crocker 1946, Folk 1970; Lancaster 1981c,1982c,1986c; Wasson 1983c; Watson 1986.
- Internal structures**
Breed & Breed 1978; McKee 1982a; McKee & Tibbitts 1964; Tsoar 1978a,b,1982b
- LUNETTES - see also Clay Dunes, Gypsum Dunes**
Bettenay 1962; Boulaine 1953,1954,1956; Bowler 1967,1968,1971,1973,1975,1976, 1983; Campbell 1968; Coffey 1909; Coque 1979; Coque & Jauzein 1967; Everard 1964; Goudie & Thomas 1985,1986; Greenwood 1983; Hills 1939a; Huffman & Price 1949; Lancaster 1978,1986b; McDowell 1984; Macumber 1970; Page 1971, Passarge 1911, Perthuisot & Jauzein 1975; Price 1963; Reeves 1965, Smith, H.T.U. 1972; Stephens & Crocker 1946; Tricart 1954; Twidale 1972a,b,1980,1981; Wopfner & Twidale 1967.
- NEBKHA - see Shadow Dunes**
- PARABOLIC DUNES**
Anton & Vincent 1986; Bowden 1983; Breed et al. 1984; David 1977b,1978,1982; Hack 1941; Hefley & Sidwell 1945; Hirault 1966; Jennings 1957; Jungerius et al. 1981, Kostyukovskiy 1974; Lewis 1960; Odyinsky 1958; Story 1982; Thomspson 1983; Wells 1982a.
- Internal Sedimentary Structures**
Bigarella 1975a,b,1979; McKee 1966.
- PERIGLACIAL COVER SANDS - See also Cold Climate Dunes; Quaternary Periglacial Dunes**
Cate 1969; Crommelin 1964; Koster 1978,1982; Pyritz 1972; Nowaczyk 1967, 1976a,1977; Rutten 1954; Ruegg 1983; Straw 1963.
- QUATERNARY PERIGLACIAL DUNES - see also Cold Climate Dunes**
Morphology
Canada
Abrahamson 1972; Bayrock & Hughes 1962; David 1971,1977a,b,1979a,1981; Dionne 1978; Lovell 1967; Mott 1969; Pyskin & Davidson-Arnott 1985, Smith,

R.S.U. 1980.

Europe

Cailleux 1936,1942; Hogbom 1923; Poser 1950; Straw 1963; Zeremski 1972.

Europe - Central

Ban et al. 1964; Borsy 1977; Borsy et al. 1982; Nagy 1974; Pelisek 1963,1972; Pribly 1972; Radulescu 1968; Schmidt 1971.

Finland

Lindroos 1972.

France

Allier 1966; Cailleux 1941,1951; Mouline 1970.

Germany

Gerhardt 1900; Habbe 1974; Hamblock 1958; Jentsch 1900, Kaubler 1974; Keilack 1918; Korn 1919; Lous 1929; Molner 1961; Pyritz 1972; Roth 1900; Schenze 1968; Solger 1905; Theilen 1978; Wilckens 1926.

Netherlands

Cate 1969; Cleveringa et al. 1977; Crommelin 1964,1965; Koster 1978,1982; Maarleveld 1960; Ruegg 1983; Rutten 1954; Vandenberghe & Krook 1981.

Poland

Ambroz 1947; Bogacki 1969, Borowka 1975,1979; Borsy 1965; Chmielewska & Chmielewski 1960; Chmielewska & Wasylkova 1961; Dylak 1969; Dylakowa 1958,1964,1968b; Galon 1958,1959, 1969a,b; Gozdzik 1981; Izmailow 1975; Jahn 1956; Jarnia & Szczypek 1980; Kadar 1938; Kepczynski 1958; Kobendzina 1961,1969; Kobendzina & Kobendza 1958, Kobendza 1970; Kowalowski 1977; Kozarski et al. 1970; Kozarski & Tolbolski 1968; Krafewski 1979; Laskowski 1981; Lencewicz 1922; Lynzewska 1968; Madjanowski 1958; Malakowski 1917; Malakowski & Lencewicz 1953; Manikowska 1977; Maruszczak 1958; Maruszczak & Trembaczowski 1960; Mrozek 1958; Mycielska-Davigallo 1965; Mycielska-Davigallo & Kzywoblocka-Lavrow 1975; Nowaczyk 1967, 1976a,b,1977; Nowicka 1958; Okolowicz 1969; Penarowski 1958,1960, 1962,1966; Pilarczyk 1958,1976; Polianski 1956; Roszko 1969; Rotnicki & Toboloski 1969; Sawicki 1958; Schoenich 1958; Szczypek 1976,1980; Tobolski 1969; Trembaczowski 1948; Urbaniak 1967; Urbaniak-Biernacka 1973a,b,1975,1976a; Witek 1970; Wojtanowicz 1968,1970,1972.

USA

Alaska

Black 1951; Carter 1981,1982; Cox & Lawrence 1983; Fernald 1964; Galloway et al. 1985; Trainer 1961.

Lower 49 States

Ahlbrandt 1974a,b; Ahlbrandt et al. 1983; Carlisle & Marrs 1982; Chase 1977; Cobb 1931; Conally et al. 1972; Denny & Owens 1979; Dineen et al. 1978; Donahue 1977; Dart 1959; Evans 1944; Grigal et al. 1976; Hickok et al. 1982; Holliday 1984; Huffington & Albritton 1941; Kelley 1962; Knapp 1983; Lewis 1960; Mettler 1955; Muhs & Madden 1980; Olson 1958; Patrone 1970; Saucier 1978; Sidwell & Tanner 1938; Simonett 1960; Smith, H.T.U. 1938,1940,1964; Synder 1985; Thorp & Smith 1952; Trimble & Carr 1976; Wells 1977; Whitefield 1937; Wilson 1980.

Nebraska Sand Hills

Ahlbrandt & Fryberger 1980; Ahlbrandt et al. 1983; Bradbury 1980; Keech & Bentall 1971; Maroney & Swinehart 1978; Smith, H.T.U. 1949b,1965,1968a; Warren 1968,1976; Wells 1982b.

USSR

Bulgareau 1971; Gudelis & Vaitoniene 1976; Konishev & Lyubimow 1968; Vaychis 1973.

REMOTE SENSING

Ashburn & Welson 1956.

Aerial Photography

Clos Arceduc 1969a,c,1969/1970; Davis & Neal 1963, Garelik et al. 1976; Hirault 1966; Jordan 1982; Kamel et al 1982; Kolm & Marrs 1977; Mabbutt & Woodling 1966; Mallick et al. 1981; Mirkin et al. 1974; Miszalski 1974; Nicolaev 1960; Revzon et al. 1982; Sen 1967,1977; Smith, H.T.U. 1956b,1969; Sterckx 1974.

Landsat

Asem et al. 1982; Berlin et al. 1985; Brera 1979, Canon & Galichet 1975; Chao Sung-Chiao 1984b; Chemin et al. 1982; Craig et al. 1980; El Baz 1976,1978a,1979a,b, 1984a, b; Everett et al. 1984; Grolier & Schultejann 1982; Kharin et al. 1980; Kolm 1973,1974,1985; Kolm & Marrs 1977; Kolm, et al. 1975; Kwartsova et al 1976; McKee 1975,1982b; McKee & Breed 1974a,b,c; McKee et al. 1973,1975,1977; Mainguet 1972d,1976b,c,d,1982c,d,1984a; Mainguet & Chemin 1981; Mainguet et al 1980; Mallick et al. 1981; Marie 1983; Maxwell 1982; Revzon et al. 1982; Seevers et al. 1975; Striem & El Baz 1982;

- Williams 1982.
- Orbital Photography**
El Baz 1976,1978a,19790a, 1984b; Fujita 1967; McKee & Breed 1974b; Mainguet 1976d,1984a; Morrison & Chown 1964; Pesce 1968; Verstappen 1972a; Verstappen & Van Zuidam 1970; Warner & El Baz 1979.
- Radar**
Berlin et al. 1985; Blom 1981; Blom et al 1979; Brown & Saunders 1978; Greeley, Christensen et al. 1984; Marie 1983.
- SAND ENCROACHMENT**
Academia Sinica 1979; Albolkhair 1981; Duchemin 1958; Hidore & Albolkhair 1982; Hunting Surveys 1977; Sivakov 1973.
- SAND SEAS - see also Dunefields**
- Archaeology**
Carbonnel & Barbey 1972; Clark 1973; Corvinus 1978; Shackley 1980,1982; Sigleo & Colhoun 1982; Smith, D.M. et al. 1975.
- Dune Patterns**
Breed et al 1979; McKee 1979a,b, 1982b,1983; McKee & Breed 1974a,c,1976; McKee et al. 1973,1974, 1977; Mainguet 1976d,1982c; Mainguet & Callot 1974,1978.
- Formation**
Chao Sung-Chiao 1981b; Chao Sung-Chiao & Jiaming 1982; Clos Arceduc 1966; Fryberger & Ahlbrandt 1979; Porter 1986; Wasson & Hyde 1986; Wilson 1967, 1971,1973; Zheng 1981.
- General Descriptions**
- Arabian Peninsula**
Bender 1975; Brown 1960, Bunker 1953; Chapman 1978; Dutton 1986; Phillips 1882; Powers et al. 1966; Shata 1971; Thesiger 1949; Whitney 1983; Whitney et al. 1983.
- Australia**
Clapp 1926, Conacher 1971; Crocker 1946
- Sahara**
Capot Rey 1941,1943,1947,1970; Kadar 1934; Mainguet & Callot 1978; Mainguet & Chemin 1983.
- Origins**
Abichandi & Roy 1966, Ahmed 1969; Alimen 1982; Raikes 1969; Smiley 1982.
- Recent Environmental Change**
Barth 1982; Dorize 1974; Grove 1974, 1977; Mainguet 1980,1986; Mainguet & Chemin 1980,1981; Ohmori 1980.
- Sediments**
Alimen & Fenet 1954; Alimen et al. 1958; Angelis 1937; Aubert 1978; Bellair 1939;1940a,b,1941,1953b; Bourcart & Malycheff 1926; Capot Rey 1965, Faure 1960; Fryberger et al. 1984; Petrov 1961,1962; Xu & Xu 1983; Xu et al. 1982
- Quaternary History**
Goudie 1972a; Klammer 1982; Sarthein 1978; Street 1981; Thomas & Goudie 1984; Williams 1975,1985.
- Arabian Peninsula**
Al-Syarai & Zotl 1978; Anton 1984; Chapman 1971; Gerson 1982; Hotzl et al. 1978; Murray 1946; Whitney 1980,1981,1983; Whitney et al. 1983
- Australia**
Beard 1983; Bowler 1975,1976,1978a,b; Bowler & Narford 1963; Bowler & Magee 1978; Bowler & Wasson 1983; Brookfield 1970; Davies 1967,1974,1983; Firman 1982; Glassford & Killigrew 1976; Jennings 1968,1975; King 1956,1960; Langford Smith 1982; Sprigg 1979,1982; Twidale & Wopfner 1981; Wasson 1983,b,c,1986; Webb & Wopfner 1961; Williams 1973; Wopfner & Twidale 1967; Wyrwoll & Milton 1976.
- Central Asia**
Kes 1973; Romanova 1971.
- China**
Guang-Rong et al. 1983; Murzayev 1967.
- Indian sub-continent**
Allchin & Goudie 1971,1978; Allchin et al. 1978; Goudie et al. 1973; Hegde 1982; Hegde & Sychanthavong 1982; Higgins et al. 1973; Misra & Misra 1982; Seth 1978; Singh et al. 1974; Singh 1977b,1985; Verstappen 1970; Wasson et al. 1983.
- Kalahari**
Cooke 1975,1980,1984; Cooke & Verstappen 1984; Deacon et al. 1983; Flint 1959,1976; Flint & Bond 1968; Gray & Cooke 1977; Grove 1969; Heine 1981,1982; Jones 1982; King 1952; Lancaster 1979, 1980c, 1981b,1984b,1986b; Mallick et al. 1981; Passarge 1904; Rust 1984; Thomas 1984; Van Zinderen Bakker 1980; Verboom 1974; Wayland 1953; Williams 1982; Wright 1978.
- Namib**
Beaudet & Michel 1978; Besler 1979,1980,1983; Deacon et al. 1984; Eriksson 1978; Fulfaro & Torquato 1975; Lancaster 1979; Ollier 1977; Rogers 1977; Rust 1979,1980; Rust & Schmidt 1981; Selby 1976,1977; Teller & Lancaster 1985, 1986 a,b; Tankard & Rogers 1978; Torquato 1970,1974; Van Zinderen Bakker 1975,1980,1984; Weinecke 1973.

Sahara

Courbis 1890; Gabriel 1982; Grove 1980; Leprun 1971; Manguet 1975; Manguet et al. 1980; Monod 1950a,b; Nicholson & Flohn 1980; Rognon 1982; Rognon & Williams 1977; Smith, H.T.U. 1963; Van Zinderen Bakker 1980; Williams 1975; Williams & Faure 1980.

Sahara - Central

Clark 1973; De Villiers 1948, Manguet 1968,1969,1972b.

Sahara - Eastern

El Baz 1980; Haynes 1982, Haynes & Johnson 1984; Moseley 1965; Sandford 1933c.

Sahara - Northern

Alimen 1965; Alimen et al. 1959, Awad 1963, Ballais 1982; Ballais et al. 1979; Besler 1982a; Bourcart & Malycheff 1927; Capot Rey 1945; Cvijanovich 1953; Marinier et al. 1980; Rognon 1979; Rohdenburg & Sabelberg 1980; Schoeller 1945; Williams 1970.

Sahara - Western

Barbey & Carbonnel 1972; Beaudet et al. 1976; Coude-Gaussen, Riser et al. 1982b; Leprun 1971; Michel 1979a,b; Monod 1936,1962; Nahon et al. 1976; Nahon & Demoulin 1970.

Sahara - Southern

Bellair 1949,1953a; Blanck 1968; Clayton 1957,1966; Dumont 1978; Durand 1980; Durand et al. 1984; Durotoye 1983; Grove 1957, 1958,1959; Grove & Pullan 1963; Grove & Warren 1968; Mensching 1979; Michel 1959,1978; Palausi 1955; Prescott & White 1960; Pullan 1969; Sombroek & Zonneveld 1971; Talbot 1980,1984,1985; Talbot & Williams 1978,1979; White 1971.

Sudan

Grove & Warren 1968; Gunn 1982; Vail 1982; Warren 1964,1966,1970; Williams et al. 1982a; Williams Adamson et al. 1982.

SAND SHEETS

Breed et al. 1980; Briem 1977; DeDapper 1979,1981; Edmonds 1942; Eldun 1969; Fryberger et al. 1979; Fuller 1899; Gagliano 1970; Haynes 1982; Kocurek & Nielson 1984,1986.

SAND STORMS

Bagnold 1938; Dubief 1943; Wilshire & Wittschell 1931.

SAND STREAKS

Greeley & Iversen 1986.

SAND TRANSPORT BY THE WIND - see also Aeolian Processes

Adam 1950; ASCE 1965; Ascanio 1972; Bagnold 1935b,1936,1937a,b,1941,1953a, 1956, 1978, 1985; Bardorff-Nielsen et al. 1981,1983,1985; Belly 1964; Berg 1983; Bourcart 1928; Bourcart & Malycheff 1928, Byrne 1968; Carrol 1939; Chepil 1965; Smith 1975; Sorensen 1985; Sumer 1985; Udden 1894; Ward 1977; Wasson & Nanninga 1986, Willetts & Rice 1985b; Wilshire 1980; Wilson 1897; Yuquan & Zheng Zanke 1981; Zingg 1952.

Effect of vegetation

Ash & Wasson 1983; Buckley & Ling 1986.

Regional Patterns

Dubief 1943,1952,1953, El Baz & Wolfe 1982; Fryberger 1978; Gay 1962; Harmse 1982, Lancaster 1985b; McCauley et al 1982,1984; Manguet 1976c, 1977,1978, 1983b, 1984a; Manguet & Cossus 1980; Marrs & Kolm 1982; Misak & El-Shazly 1982; Petitjean 1937a,b; Sarheim & Walger 1974; Sharp 1964; 1980, Sharp & Saunders 1978; Stannard 1959.

Saltation

Anderson 1986; Anderson & Hallet 1986; Gerety 1985; Gerety & Slingerland 1982,1983; Gillette & Stockton 1986; Greeley et al 1983; Horikawa & Shen 1960; Howard 1977a; Hunt & Nalpanis 1985; Iversen 1983,1985a,b,1986a,b,c,d; Iversen & White 1982; Jensen & Sorensen 1983,1985; Jensen, Rasmussen et al. 1983; Kadib 1963,1965; Nalpanis 1985; O'Brien & Rindlaub 1936; Otterman & Cornitz 1983; Owen 1964,1980; Rasmussen 1985; Rumpel 1985; Salaun-Penquer et al. 1983; Tsychiya 1970; White 1975,1979,1985; Willetts 1983; Willetts & Rice 1985a,b,1986; Willetts et al. 1982; Williams 1964; Zingg 1953a,b.

Threshold velocity

Bagnold 1935b, 1936, 1937a,b,1941; Belly 1964; Chepil & Woodruff 1963; Felice 1956; Gillette et al. 1980; Greeley & Iversen 1986; Greeley, White et al. 1976; Greeley, Leach et al. 1980; Iversen 1983,1985a,1986b,c; Iversen, Pollack et al. 1976; Iversen & White 1982; Kawada 1953; Kawamura 1951; Lyles & Krauss 1971; Nickling 1984; Pollack et al. 1976; Pye 1985; Udden 1894; Weinburger & Adlon 1971.

SAND TRAPS

Bagnold 1941; Illenberger & Rust 1986;

Jones & Willets 1979; Leatherman 1976.

SEIF DUNES - see **Linear Dunes**

SHADOW DUNES - see also **Coppice Dunes, Nebkha**

Clemmensen 1986; Glennie & Evamy 1968; Hesp 1981.

SIGMOIDAL DUNES

Holm 1957.

SOUND PRODUCING DUNES

Criswell et al. 1975; Gibson 1946; Goldsmid 1897; Haff 1986; Humphries 1966; Lewis 1936a; Lindsey et al 1976; Maloney 1982; Trexler & Melhorn 1986; Van Rooyen & Verster 1983, Yarham 1958.

STAR DUNES

Morphology

Alimen et al. 1953; Andrews 1981; Bellar 1951; Berkstresser 1974; Breed & Breed 1978; Breed & Grow 1979; Breed et al. 1984; Choubert 1941; Greeley et al. 1981; MacDonald 1966,1970

Processes

Lancaster 1986d; Murphy 1973,1975; Murphy & Greeley 1972.

Sediments

Grain size and sorting characteristics
Alimen et al. 1958.

Internal Structures

McKee 1966,1979,1982a.

TERRESTRIAL ANALOGS FOR MARS

El Baz 1978b,1979c,1981; El Baz et al. 1979; El Baz & Maxwell 1982; Greeley 1986a,b; Greeley et al. 1971,1978,1984; Herzig & El Baz 1980; Howard 1977b; Lowman 1971; McCauley & Breed 1980; McCauley et al. 1980; J. McCauley et al. 1980,1981, Mainguet et al. 1981; Manent & El Baz 1980; Murphy & Greeley 1972; Smith, R.S.U. 1980c,1981; Tsoar & Greeley 1980.

TOPOGRAPHICALLY CONTROLLED DUNES

Anders 1974; Arvidson & Mutch 1974; Evans 1962; Howard 1985; Jennings 1967, McCauley & Cotera 1978; McCauley & Breed 1980; McCauley et al. 1980; Manent & El Baz 1980; Smith, H T U. 1954; Tsoar 1982a,1983b; Tsoar & Greeley 1980.

TRANSVERSE DUNES

Morphology

Breed & Grow 1979; Cooper 1944; Inman et al. 1966; Lancaster 1982a,1983a, Norris & Norris 1961; Smith, R.S.U. 1978b,d.

Movement

Havholm & Kocurek 1986; Inman et al. 1966; Machenberg 1982; Pickard 1972; Ward & Von Brunn 1985.

Sediments

Vincent 1984.

WIND RIPPLES

Borsy 1973; Brugmans 1983; Bucher 1919; Cortemiglora 1979; Greeley & Peterfreund 1981; Howard 1977a; Hunter 1977a,b; Kennedy 1964; Mercer & Haque 1973; Muller & Ostaficzuk 1971; Schenk 1982; Seppala & Linde 1978; Sharp 1963, Stone & Summers 1972; Trikanos 1928; Tyler 1979, Walker & Southard 1982; Weir 1962; Werner et al 1986; Wilcoxon 1962.

ZIBAR

Holm 1960; Lancaster 1982b; Nielson & Kocurek 1984,1986; Smith, R.S.U. 1980b, Tsoar 1978a; Warren 1971,1972.

GEOGRAPHICAL INDEX

AFRICA

Grove 1974; Konopliova et al. 1983a,b; Le Houerou 1979; McKee & Breed 1974c; McKee et al. 1973,1975; Monod 1950b; Roederer 1970; Williams 1985.

AFRICA - Northern

Le Houerou 1979

AFRICA - Southern - see also Kalahari, Namib.

Deacon et al. 1984; Eriksson 1978; Flint 1959; Goudie 1969,1970; Goudie & Thomas 1985,1986; King 1939,1978; Lancaster 1979,1983b; Leistner 1979; Passarge 1911; Rogers & Tankard 1974; Rust & Schmidt 1981; Thomas 1984; Van de Merwe 1954a,b; Van Rooyen & Berger 1974;

ALGERIA - see also Sahara - North West

Aime & Penven 1982; Alimen 1953a; Aufrere 1934,1935; Ballais 1982; Ballais et al. 1979, Bellair 1940b; Besler 1984; Capot Rey 1953a; Cortemiglia 1979; Grandet 1955; Matschinski 1952; Trichet 1968; Vossmerbaumer 1974;

ANTARCTICA

Calkin & Rutford 1974; Lindsey 1973; Mather & Miller 1966; Miotke 1981; Rutford & Calkin 1974; Selby et al. 1974.

ARGENTINA

Dangaus 1979; Tricart 1969; Warner & El Baz 1979.

ASIA - Central - see Central Asia

AUSTRALIA - see also Simpson Desert

Ash & Wasson 1983; Beard 1983; Bettenay 1962; Bowden 1983; Bowler 1968, 1971, 1975,1978a,1983; Bowler & Harford 1963; Bowler & Magee 1978; Bowler & Wasson 1984; Brookfield 1970; Brown 1959; Campbell 1968; Di Caporaccio 1936; Churchward 1961,1963; Clapp 1926; Clarke & Priestley 1970; Coaldrake 1954; Conacher 1971; Crow 1975; Daniles 1969; Dare Edwards 1979,1982,1984; Davies 1983; Firman 1982; Glassford & Killighrew 1976; Godfrey 1974; Greenwood 1983; Hesp 1983; Hills 1939a,b,1953; Hyde & Wasson 1983; Jennings 1968,1975; Jutson 1918,1934; King 1956,1960; Krinsley et al.1968; Langford-Smith 1982; Laut et al. 1977;

McKee & Breed 1974c; McKee et al. 1973,1975; Mabbutt 1961,1962,1963, 1967,1968,1969, 1971,1984; Mabbutt & Wooding 1966; Mabbutt et al. 1969; MacArthur 1962; Macumber 1970; Madigan 1930,1936; Mainguet 1978; Mulcahy 1973; Ohmori 1980; Ohmori et al. 1983; Page 1971; Pickard 1972; Price 1964; Rognon & Williams 1977; Sigleo & Calhoun 1982, Simonett 1949,1951; Smith, D.M et al. 1975; Sprigg 1979,1982; Squires 1963; Stannard 1959; Story 1982; Thompson 1983; Walker 1982; Ward 1977; Wasson 1976,1986; Wasson & Callen 1984; Webb & Wopfner 1961; Wincup 1944, Williams 1973,1985; Williams 1979; Wyrwoll & Milton 1976.

BAHRAIN

Doornkamp et al. 1980.

BOTSWANA - see Kalahari

BRAZIL

Bigarella 1975b,1979; Klammer 1982; Lichte 1980, Martun et al. 1979, Tricart 1961, 1974,1977.

CANADA

Abrahamson 1972; Bayrock & Hughes 1962; David 1971,1977a,b,1979a,b,1981, 1982; Dionne 1978; Filion & Morisset 1980; Hopkins 1935; Lovell 1967; MacFarlane 1972; McKenna-Neuman & Gilbert 1986; Mott 1969; Nickling 1976; Pissart 1966,1975; Pissart et al. 1977; Pyskin & Davidson-Arnott 1985; Rochette & Cailleux 1971; Row & Abouguenda 1982; Smith, D.G. 1980.

CENTRAL ASIA

Bylov 1981; Federovich 1948b; Hedin 1905; Horner 1936; Jorre 1935; Kes 1973; Lang & Pias 1971; McKee & Breed 1974c; McKee et al. 1973,1975; Mozhaev et al. 1984; Murzayev 1967; Nikiforov 1960; Ovchinnikov 1970; Petrov 1960, 1961, 1962, 1966, 1967; Rachkovskaya & Gunne 1980, Totnicki & Lomborinchen 1978; Selivanov 1961; Ting 1958; Yepifanov 1973.

CHAD

Jackel 1980; Mainguet 1968,1969; Urvoy 1933a,b, 1936; Verstappen 1972a.

CHILE

Harrington 1961; Le Carpentier 1973;
Segerstrom 1962,1964; Tricart 1966.

CHINA - see also Central Asia

Academica Sinica 1958, 1962a,b, 1979a,b;
Breed et al 1979; Breed & Grow 1979;
Buckley et al. 1986; Cailleux 1972; Chao
Sung Chiao & Jiaming 1982; Cheng 1963;
Guang-Rong et al. 1983; Hedin 1896;
Horner 1937; Hsu 1965; Li 1965; Li Hsiao-
Fang 1965; Liu 1952, Murzayev 1967;
Petrov 1961,1966,1967; Walker 1982;
Wang 1960; Xing-Zen & Zhong-Hai 1981;
Xu & Xu 1983; Xu et al. 1982; Yang et al.
1982; Yu et al. 1962; Zheng 1981; Zhu
Zenda 1979,1980,1984.

DENMARK

Jonassen 1954; Kulhman 1957.

EGYPT

Ashri 1970; Ayyad 1973; Beadnell
1901,1909b; Besler 1986; Breed et al.
1980; Busch & Besler 1982a,b; Butzer
1961; Chemin et al. 1982; Cornish 1900b;
El-Baz 1978a,b,1979b,c, 1981; El-Baz et al.
1979, El-Baz and Maxwell 1982; El-Baz and
Wolfe 1982; Embabi 1967,1970,1979,
1982; Giengengack & Underwood 1980;
Harris 1957; Herzig and El-Baz 1980; Hume
1909,1921,1925; Hurst 1909; Kamel 1953;
McCauley et al. 1980; McKay et al.1980;
Manent and El-Baz 1980; Misak and El-
Shazly 1982; Prestel et al. 1979; Pribly
1970; Said 1962, Sandford 1953; Squyres &
Bradley 1964; Striem & El Baz 1982;
Yukubov 1968.

EUROPE

Cailleux 1936,1942; Høgbom 1923; Poser
1950; Straw 1963; Zeremski 1972.

EUROPE - CENTRAL

Ban et al. 1964; Borsy 1977; Borsy et al.
1982; Nagy 1974; Pelisek 1963,1972;
Pribly 1972; Radulescu 1968; Schmidt
1971.

FINLAND

Aartolahti 1972; Lindroos 1972, Seppala
1969,1971,1972c.

FRANCE

Allier 1966; Cailleux 1941,1951; Moulins
1970.

GERMANY

Gerhardt 1900; Habbe 1974; Hamblock
1958; Hartnack 1925,1931; Jentsch 1900;
Kaubler 1974; Keilack 1918; Korn 1919;
Kretschmer et al. 1971; Louis 1929; Molner
1961; Musset 1923; Nowel et al. 1972;
Pyritz 1972,1974; Priesmier 1970; Reinecke
1903; Roth 1900; Schenze 1968; Solger
1910a,b; Theilen 1978; Wilckens 1926;
Wildvang 1936.

GREENLAND

Belknap 1928.

HUNGARY

Borsy 1971,1972,1974.

INDIAN SUB CONTINENT

Abichandi & Roy 1966; Abu Bakr 1963;
Ahmed 1969; Ahuja et al. 1980; Allchin &
Goudie 1971,1978; Allchin et al. 1978;
Biswas 1966; Blanford 1876,1877; Breed et
al 1979; Breed & Grow 1979; Chaudhri &
Khan 1981; Gardner 1981; Goudie et al.
1973; Goudie & Sperling 1977; Gupta
1979, Gupta & Aggarwal 1980; Hegde
1982; Hegde & Sychanthavong 1982;
Higgins et al. 1973,1974; Khanna et al.
1977; Mattev 1982; Misra & Misra 1982;
Misra & Verma 1957; Mityk 1982; Mukerji
1961; Oldham 1903; Pandey 1971; Pandey
et al. 1971; Saxena & Singh 1977; Seth
1978; Singh 1977a,b, 1985; Singh et al.
1972,1974; Singhvi et al. 1982; Smith &
Snead 1961a,b; Snead 1966; Snead &
Frishman 1968; Tale 1904; Tamhane 1952;
Vats et al. 1976; Verstappen 1970; Wasson
et al. 1983.

IRAN

Gabriel 1938,1957; Hallier 1976; Mahmoudi
1977; Selivanou 1982; Tale 1904;
Vossmerbaumer 1974.

IRAQ

Al Saadi 1972; Dapples 1941; Dougreml &
Kaul 1972; Jawad & Al-Ani 1983; Khalaf &
Al-Hashash 1983; Skocek & Saadallah
1972.

ISRAEL

Ginzbourg 1971; Ravikovitch 1953,
Reifenberg 1947; Rim 1948,1950,1958;
Rosenan 1954; Striem 1954; Tsoar
1970,1974,1976,1978a,b, 1982a, 1983a,
Tsoar & Moller 1986, Tsurieil 1974; Yaalon
& Laronne 1971.

JAPAN

Kimura et al. 1970; Matsuda et al. 1980; Niigata Ancient Dune Research Group 1974,1978; Nishizawa 1978; Tada 1975; Tomioka et al. 1974.

KALAHARI DESERT - see also Southern Africa

Baillieul 1972,1973,1975; Binda 1972; Binda & Hildred 1973; Bond 1948,1954,1957; Boocock & Van Straten 1962; Bosazza 1953,1957,1962; Breed et al 1979; Breed & Grow 1979; Buckley 1981a; Cooke 1975,1980,1984; Cooke & Verstappen 1984; DeDapper 1979,1981; Flint & Bond 1968; Grey & Cooke 1977; Grove 1969; Heine 1981,1982; Jones 1982; King 1952; Lancaster 1978,1980c,1981b, 1986a,b; Leistner 1967; Leser 1972; Leser et al. 1976; Lewis 1936a,b; McKenzie 1952; Mabbutt 1955; Malluck et al. 1981; Passarge 1904; Poldervaart 1957; Range 1936; Rust 1984; Sterckx 1974; Thomas 1986a; Van de Merwe 1954a; Van Rooyen & Verster 1983; Van Zinderen Bakker 1980; Verboom 1974; Wayland 1953; Williams 1982; Wright 1978.

KENYA

Hemming & Trapnell 1957.

KUWAIT

Al Saleh and Khalaf 1982; Asem et al. 1982; Khalaf & Gharib 1985.

LIBYA

Angelis 1930; Breed et al 1979; Breed & Grow 1979; di Caporaccio 1936; Capot Rey 1953a; Forth de Lancey 1930; Kadar 1934; Kanter & Schiffers 1973; King 1912; Leone 1953; McKee & Tibbitts 1964; Mitwally 1953; Mizutani & Suwa 1966; Monterin 1935; Moseley 1965; Pesce 1968,1971; Sandford 1933a,c,1935; Shaw 1936; Williams & Hall 1965; Wingate 1934.

MALI

Barth 1982; Blanck 1968; Chudeau 1910,1915a,b,1918; Coude-Gaussen et al. 1982a,b, Tricart et al. 1960.

MARS

Arvidson 1972, 1974; Arvidson & Mutch 1974; Arvidson et al. 1979; Baker 1981; Belcher et al. 1971; Breed 1977; Breed & Ward 1979; Breed et al. 1979; Christensen 1983,1986; Craig et al. 1980; Cutts & Smith 1973; Gad-el-Hak et al. 1975; Greeley

1968, 1979; Greeley & Iversen 1985; Greeley, Iversen et al. 1974; Greeley, White et al. 1976; Greeley, Leach et al. 1980; Greeley, Malone et al. 1980; Greeley et al. 1983; Greeley, Williams et al. 1984; Guinness et al. 1982; Iversen et al. 1973, 1976; Krinsley & Greeley 1986; Krinsley et al. 1979; Leach 1979; McCauley et al. 1981; Maegley 1976; Mason 1973; Megalhaes & Gierasch 1982; Pollack et al. 1976; Sharp & Malin 1984; Smalley & Krinsley 1979; Smith, R.S.U. 1980c; Thomas 1981, 1982; Tsoar et al. 1979; Tsoar & Greeley 1980; Ward & Doyle 1983; Ward et al. 1985; White 1975, 1979; White et al 1975, 1979; Wolfe 1979.

MAURITANIA

Anon 1950; Aubrinieres 1935; Barbey 1971; Barbey and Carbonnel 1972; Barbey and Coule 1976; Barbey et al. 1974, 1975; Breed et al 1979; Breed & Grow 1979; Carbonnel and Barbey 1972; Chudeau 1909b; Clos-Arceuduc 1965; Daveau 1965; Duchemin 1958; Fryberger 1980; Le Lubre 1980; Michel 1979b; Monod 1928, 1936, 1958, 1961, 1962; Sarnheim & Walger 1974; Tricart 1955; Vincent-Cuaz 1958.

MEXICO

Arvidson & Mutch 1974; Backhaus 1972; Blom 1981; Breed & Grow 1979; Greeley et al. 1984; Heine 1972; Inman et al. 1966; Ives 1959; Lancaster 1986c; Marston & Schmidt 1981; May 1973; Merriam 1969; Schmidt & Marston 1983.

MIDDLE EAST

Beaumont et al. 1976; Bender 1975; Dapples 1941; Gerson 1982; Kaul & Thalen 1979; Krupinski 1980; Petrov 1971; Raikes 1969.

MONGOLIA

Berkey & Morris 1927; Boyshenko 1979; Selivanov 1969, Tada 1963; Trembakzowski 1968,1969,1976.

MOROCCO - see also Sahara - North West

Alimen et al. 1959; Awad 1963; Choubert 1941,1945; Clos-Arceuduc 1965; Coude-Gaussen et al. 1982; Martin and Nairn 1975.

NAMIB DESERT

Barnard 1973,1975; Beudet & Michel 1978; Besler 1972a,b, 1975, 1976,1977b,

1979,1980,1981,1983a; Breed et al 1979; Breed & Grow 1979; Bremner 1984; Corvinus 1984; Do Amaral 1982; Fulfaro & Torquato 1975; Gevers 1936; Goudie 1972b; Harmse 1980,1982; Kaiser 1926a,b; Kayser 1973; Lancaster 1980a,b,1981a,c, 1982ac,c,d,1983a,c,1985b,1986c; Lancaster and Ollier 1983; Leser 1971; Logan 1960,1969, McKee 1982a; Marker 1979; Martin 1950; Michel 1978,1979b; Nagtegaal 1973; O'Brien 1972; Ollier 1977; Robinson and Seely 1980; Rogers 1977, 1979; Rust 1979,1980; Rust and Wieneke 1976; Scholz 1972; Seely 1975, 1978; Selby 1976,1977; Shackley 1981, 1982; Spreitzer 1963; Tankard & Rogers 1978; Teller & Lancaster 1986a,b; Trenk 1910; Torquato 1970,1972; Van Zandere Bakker 1975,1980,1983; Ward 1984; Ward et al 1983; Ward & Von Brunn 1985; Watson & Lemon 1985; Weinecke and Rust 1973; Wilmer 1894; Yaalon and Ward 1982.

NETHERLANDS

Cate 1969; Cleveringa et al. 1977; Crommelin 1964,1965; Koster 1978,1982; Kwakernaak 1977; Maarleveld 1960; Ruegg 1983; Rutten 1954; Vandenbergh & Krook 1981.

NEW ZEALAND

Cockayne 1911; Sevon 1966.

NIGER

Talbot & Williams 1978,1979, Tricart 1959,1965; White 1971.

NIGERIA

Benett 1980; Clayton 1956,1966; Cortemiglia 1979; Durotoye 1983; Falconer 1911; Grove 1957,1958; McTarnish 1984; Palausi 1955; Prescott & White 1960; Pullan 1969, Smith & Whalley 1981; Sombroek & Zonneveld 1971.

NORTH AMERICA - see also Canada, U.S.A.

Ahlbrandt 1982; Ahlbrandt et al. 1983; Bender 1982; Cailleux & Wuttke 1964; Carlisle & Marrs 1982; Dregne 1984; Hickok et al. 1982; Larson 1970; McKenzie 1982; MacDougal 1912; MacMahon 1979; Medellin-Leaf 1982; Pool 1913; Smith, 1982; Thorp & Smith 1952; Wells 1983; Wells et al. 1982.

NORWAY

Klemsdal 1969.

OMAN

Breed et al 1979; Breed & Grow 1979; Dutton 1986.

PERU

Amstutz & Chico 1958; Bailey 1899; Barclay 1917; Broggi 1961; Douglass 1909; Dresch 1961; Finkel 1959, Gagliano 1970; Gay 1962, Grolier et al. 1979; Hastenrath 1967,1978; Howard 1985; Kinzl 1958; Lettau & Lettau 1969,1978; Pompeckj 1906; Price 1959, Simons 1956; Simons & Eriksen 1953; Smith 1956a, Tricart & Mainguet 1965.

POLAND

Ambroz 1947; Bogacki 1969; Borowka 1975,1979; Borsy 1965; Chmielewska & Chmielewski 1960; Chmielewska & Wasylikova 1961; Dylak 1969; Dylakowa 1958,1964,1968b,1969a; Florek 1975,1980; Galon 1958,1959,1969a,b; Gawlik 1979; Gozdik 1981; Izmatow 1975,1978,1984; Jahn 1956,1972; Jarnia & Szczypek 1980; Kadar 1938; Kepczynski 1958; Kobendzina 1961,1969; Kobendzina & Kobendza 1958; Kobendza 1970; Kowalowski 1977; Kozarski et al. 1970; Kozarski & Tolbolski 1968, Krafewski 1977,1979; Kristapavichus 1968; Krol 1922; Krygowski 1958; Laskowski 1981; Lencewicz 1922; Lynzewska 1968; Madjanowski 1958; Malakowski 1917, Malakowski & Lencewicz 1953; Manikowska 1977; Maruszczak 1958; Maruszczak & Trembaczowski 1960; Mrozek 1958, Mycielska-Davigallo 1965; Mycielska-Davigallo & Kzywoblocka-Lavrow 1975; Nowaczyk 1967, 1976a,b,1977; Nowicka 1958; Okolowicz 1969; Pernarowski 1958,1960, 1962,1966; Pilarczyk 1958,1976; Polianski 1956; Roszko 1969, Rotnicki & Toboloski 1969; Sawicki 1958; Schoenich 1958; Szczypek 1976,1980; Tobolski 1969; Trembaczowski 1948; Urbaniak 1967,1969b; Urbaniak-Biernacka 1973a,b,1975,1976a,b; Witek 1969,1970; Wojtanowicz 1968,1970,1972.

QATAR

Ashour 1985; Briggs 1983; Besler 1982b; Cavelier 1970, Curtis 1983; Embabi and Ashour 1983; Griffin 1983; Hunting Surveys 1977; Johstone & Wilkinson 1960; Shata 1971.

RUSSIA - see USSR

SAHARA DESERT

Alimen 1982; Aufrere 1928a,b,1929,1930, 1931,1932,1933; Bellair 1938a; Bertin 1964; Bourcart & Malycheff 1926; Breed et al 1979; Breed & Grow 1979; Brera 1979; Capot Rey 1953b,1965,1970; Carnier 1891; Cayeux 1928; Chudeau 1907, 1920; Clos Arceduc 1966,1969b,1970,1971a, Courbis 1890; Dubief 1943,1952,1953; Gabriel 1979,1982; Gautier 1935; Grove 1980, Hachisuka 1932; Humphries 1966; Jordan 1966; Le Lubre 1952; Mainguet 1975,1976b,c, 1977, 1982a, 1983b, 1984a; Mainguet & Callot 1974; Mainguet & Canon 1976; Mainguet & Cossus 1980; Mainguet et al. 1980; Mainguet & Chemin 1983; Matschinski 1954; Mensching 1976,1979; Monod 1950a; Perret 1961; Petitjean 1937a; Price 1950; Rognon 1982; Rognon & Williams 1977; Rolland 1881; Schiffers 1971a,b,1973a,b; Smith, H.T.U. 1963,1968a,1969,1972; Suter 1973; Van der Merwe 1954a; Van Zinderen Bakker 1980; Verstappen & Van Zuidam 1970; Williams 1975; Williams & Faure 1980; Wilson 1971b.

Central

Biro et al. 1955; Busch & Hagedorn 1980; Chudeau 1907; Clark et al. 1973; Devilliers 1948; Dufour 1936; Dumont 1978; Grove 1960; Hagedorn 1971,1979a,b; Mainguet 1968,1972a; Meckelein 1960; Peel 1979; Warren 1971,1972.

Eastern - see also Egypt, Libya

El Baz 1980, Hagedorn 1968; Haynes 1982; Haynes & Johnson 1984; Said 1983; Simons 1973.

North West - see also Algeria, Mauretania, Morocco

Alimen 1953b,1965; Alimen et al. 1953,1957,1958,1959, Alimen & Fenet 1954; Bellair 1939,1940a, 1945, 1949, 1953a,b; Bellair & Janzen 1952; Besler 1982a; Canon & Galichet 1975; Capot Rey 1941,1943,1945,1947; Chavaillon 1964; Choubert 1941; Cornet 1950; Cvijanovich 1953; Flamand 1899,1919; Grandet 1957; Marie 1983; Marimier et al. 1972; Rognon 1979; Rohdenburg & Sabelberg 1980; Schoeller 1945; Sebenet 1943; Suzuki 1978; Verlaque 1958; Williams 1970; Wilson 1971a.

Western

Alvarez de Benito 1974; Beaudet et al. 1976; Brosset 1939; Monod & Cailleux 1945;

Monod & Toupet 1973; Morrison & Chown 1964.

SAHEL - see also Chad, Mali, Mauretania, Niger, Nigeria, Sudan

Chamard & Courel 1975; Dorize 1974; Dresch & Rougerie 1960; Durand 1980, Durand et al. 1984; Faure 1966; Grove 1959; Grove & Pullan 1963; Grove & Warren 1968; Hirault 1966; Mainguet 1980, 1982d, 1985,1986; Mainguet & Chemin 1980,1981,1983; Mainguet & Vimeaux-Richeux 1981; Mainguet et al. 1980,1983; Michel 1978,1979a; Talbot 1980,1984; Talbot & Williams 1978; Worrall 1974.

SAUDI ARABIA

Albokhair 1981; Al-Sayari & Zotl 1978; Anton 1983,1984; Anton & Vincent 1986; Anton & Ince 1986; Bagnold 1951; Beydoun 1966; Binda 1983a,b; Breed et al 1979; Breed & Grow 1979; Brown 1960; Bunker 1953; Chapman 1971,1978; Everett et al. 1984; Fryberger et al. 1983,1984; Hidore & Albokhair 1982; Holm 1953,1960; Hotzl et al 1978; Lamare 1933; Murray 1946; Phillips 1882; Powers 1966; Schulze & Whitney 1986; Thesiger 1949; Vincent 1984,1985; Watson 1985; Whitney 1980,1981,1983; Whitney et al. 1983.

SENEGAL

Leprun 1971; Michel 1959; Sall 1973

SIMPSON DESERT - see also Australia

Breed et al 1979; Breed & Grow 1979, Buckley 1979a,b,1981a,b,1982a,b; Buckley et al. 1986; Carroll 1944; Crocker 1946; Folk 1969,1970,1976b,1978; Graetz et al. 1982; Mabbutt 1982; Mabbutt & Sullivan 1968; Mabbutt & Wooding 1983; Madigan 1938,1945,1946; Purdie 1984; Twidale 1972a,b,1980,1981a,b; Twidale & Wopfner 1981; Wasson 1983a,b,c; Wopfner & Twidale 1967.

SOMALIA

Hassan 1980.

SOUTH AMERICA

Enock 1908; Khobzi 1981; Picard 1977; Rabasso 1975; Roa Morales 1973; Tricart 1969; Tricart & Alfonsi 1981; Warner & El Baz 1979.

SOUTHERN HEMISPHERE

Bowler 1978; Thomas & Goudie 1984; Williams 1975.

SUDAN

Brien 1977; Chudeau 1907,1909a; Edmonds 1942; El Dun 1969; Felix Henningsen 1984; Gunn 1982; Hagedorn 1974; Sandford 1933b,1935,1953; Vail 1982; Warren 1964,1966,1970; Williams 1968; Williams et al. 1982a,b.

SWEDEN

Agrell 1980,1981; Hansen 1957; Horner 1927; Seppala 1972a,b.

SYRIA

Kosmowska-Suffczynska 1980; Mycielska-Dowgiallo 1980; Perez Oviedo 1985; Wirth 1958.

TUNISIA

Besler 1977a; Bourlaine 1954,1956; Coque 1979; Coque & Jauzein 1975; Grolier & Schultejann 1982; Perthuisot & Jauzein 1975; Trichet 1963.

TURKEY

Ernc 1962.

UNITED STATES OF AMERICA

Ahlbrandt 1973,1974a,b,1975,1979,1982; Ahlbrandt & Andrews 1977,1978; Ahlbrandt et al. 1983; Breed et al 1979; Breed & Grow 1979; Carlisle & Marrs 1982; Cobb 1931; Gaylord 1979,1982; Hickok et al. 1982; Kolm 1973,1974,1982,1985; Kolm & Marrs 1972; Kolm et al. 1975; Lehotsky 1972; McKenzie 1982; Patrone 1970; Smith 1964; Steidtmann 1973,1982; Thorp & Smith 1952; Wells 1977; Wilson 1980.

Eastern States

Chase 1977; Conally et al. 1972; Denny & Owens 1979; Dineen et al. 1978; Donahue 1977; Saucier 1978;

High Plains

Holliday 1984; Huffington & Albritton 1941; Muhs & Madole 1980; Whitefield 1937;

South West

Crosswhite & Crosswhite 1982; Eymann 1953; Fowler & Koch 1982.

Alaska

Black 1951; Carter 1981,1982; Cox & Lawrence 1983; Fernald 1964; Galloway 1982; Galloway et al. 1985; Trainer 1961; Walker 1967.

Arizona

Bienman 1982, Breed & Breed 1978,1979; Breed et al. 1984; Bryan 1922; Chenwoth & Cooley 1960; Elston 1984; Hack 1941; McCauley & Cotera 1978; McCauley et al. 1980; Morrison 1985; Shlemon 1978,1980.

California

Abbott 1980; Anders 1974; Beheiry 1967; Berlin et al. 1985; Blackwelder 1954; Christian 1970; Christensen 1970; Clarke 1979; Clements 1977; Cooper 1967; Dean 1978a; Dohrenwend et al. 1984; Dokka 1978; Emery 1954; Evans 1962; Garrett 1966; Greeley & Iversen 1986; Greeley et al. 1986; Havholm & Kocurek 1986; Long & Sharp 1964; McCoy et al. 1967; MacDonald 1966,1970; Merriam 1969; Nielson & Kocurek 1984,1986; Norris 1966; Norris et al. 1979; Norris & Norris 1961; Reed 1930; Rempel 1936; Roth 1960; Rowlands et al. 1982; Russell 1932; Sharp 1964,1966,1978,1979,1980,1982; Sharp & Saunders 1978; Shlemon 1978,1980; Smith, H.T.U. 1967; Smith, R.S.U. 1970,1972, 1977,1978a,b,c,d, 1979,1980a, 1981, 1984; Thompson 1929; Trexler & Melhorn 1986.

Colorado

Andrews 1978,1981; Ahlbrandt & Andrews 1977,1978; Burford 1961; Fryberger et al. 1979; Hutchinson 1979; Johnson 1967,1968,1971; Merk 1960,1973; Muhls 1980; Wegeman 1939; Wiegand 1977.

Idaho

Dort 1959; Trimble & Carr 1976;

Kansas

Mettler 1955; Sidwell & Tanner 1938; Simonett 1960; Smith, H.T.U. 1938,1940a.

Michigan

Evans 1944; Grigal et al. 1976; Kelley 1962; Knapp 1983; Landsberg & Riley 1943; Olson 1958; Synder 1985; Wilson 1980.

Nebraska

Ahlbrandt & Fryberger 1980; Bradbury 1980; Keech & Bentall 1971; Maroney & Swinehart 1978; Seevers et al. 1975; Smith, H.T.U. 1949b,1956b,1965,1968a; Swinehart 1972,1986; Warren 1968,1976b; Wells 1982b.

Nevada

Earl 1981; Maloney 1982; Smith, R.S.U. 1975; Trexler & Melhorn 1986.

New Mexico

Breed & Grow 1979; Bryan & McCann 1943; Evans 1963; Everard 1964; Gile & Grossman 1979; Jones 1959; McKee 1966; McKee & Douglass 1971; McKee & Moiola

1975; Murbarger 1950; Satterwhite and Ehlen 1981; Schenk & Fryberger 1986; Schultz 1980; Simpson 1983; Simpson & Loope 1985.

Oregon

Cooper 1944; Hunter et al. 1983; Lewis 1960; McDowell 1984; Mehringo & Wingand 1986; Wilde 1982.

Texas

Evans & Meade 1945; Gile 1979,1981; Green 1961; Hefley & Sidwell 1945; Holliday 1984; Huffington & Albritton 1941; Huffman & Price 1949; Jones 1959; Machenberg 1982; Madole 1981; Mason & Folk 1958; Price 1933,1958,1963; Reeves 1965; Sidwell & Tanner 1939; Stelung & Van de Werken 1981; Waitt 1969.

Utah

Beckwith 1951; Dean 1978b; Eardley 1962; Jones 1953.

Washington

Patrone 1970.

Wyoming

Ahlbrandt 1973,1974a,b,1975.

USSR

Adylkhodzhaev & Fazilov 1979; Babayev & Friecken 1977; Breed et al 1979; Breed & Grow 1979; Bulgareau 1971; Cailleux 1972; Demin 1973,1974; Federovich 1970a; Gudelis & Vaitoniene 1976; Petrov 1983, Tncart 1953; Trushkovskii 1970

Karakum

Atakhanov 1983; Chredichenko 1980; Doubiansky 1928; Gorelov et al. 1984; Heller 1932; Khodzhayev 1974,1978,1983a,b; Konischev & Lyubimow 1968; Petrushevskii 1937; Rakhmatov & Nazarov 1982a,b; Vaychis 1973; Zhumashov & Arnageldiyev 1978.

Kazakhstan

Bykov 1932; Bylov 1981.

VENUS

Basilevsky et al. 1986; Greeley, Marshall & Leach 1984; Marshall et al. 1984.

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16 Abstract Dunes are important depositional landforms and sedimentary environments on Earth and Mars, and may be important on Venus. The similarity of dune forms on Earth and Mars, together with the dynamic similarity of aeolian processes on the terrestrial planets indicates that it is appropriate to interpret dune forms and processes on Mars and Venus by using analog studies. However, the literature on dune studies is large and is scattered in a wide variety of sources. The aim of this bibliography is to assist investigators by providing a literature resource on techniques which have proved successful in elucidating dune characteristics and processes on Earth, Mars, and Venus. This bibliography documents the many investigations of dunes undertaken within the last century. It concentrates on studies of inland dunes in both hot and cold desert regions on Earth and includes investigations of coastal dunes only if they discuss matters of general significance for dune sediments, processes, or morphology.					
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