

Catalog of species-group names of Recent and fossil Scaphopoda (Mollusca)

Gerhard STEINER

Institute of Zoology, University of Vienna,
Althanstr. 14, A-1090 Vienna (Austria)
gerhard.steiner@univie.ac.at

Alan R. KABAT

Formerly Dpt of Invertebrate Zoology (Mollusks),
National Museum of Natural History, Smithsonian Institution,
Washington, D.C. 20560 (USA)
Present address: 2401 Calvert Street, Washington, D.C. 20008-2669 (USA)
AlanKabat@aol.com

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ABSTRACT

This catalog lists names of Recent and fossil species-group taxa of the molluscan class Scaphopoda. Of a total of 1965 entries, 517 are attributed to valid Recent taxa, 816 to valid fossil taxa, 543 are invalid names, and 89 were subsequently excluded from the Scaphopoda. The authorship and complete bibliographic references are provided for each name. The original and current generic allocation, type locality, and type material depositories, as far as available, are provided. Synonyms, geographic distributions, and bathymetric ranges are provided for Recent taxa. Cross references to junior synonyms are based upon published opinions. Eight species taxa are newly synonymized herein: *Dentalium tessellatum* is a junior synonym of *Entalinopsis habitatae*; *Dentalium caudani* is a junior synonym of *Fissidentalium candidum*; *F. ergaticum*, *F. milneedwardsi*, and *F. scamnatum* are junior synonyms of *F. capillosum*; *F. exuberans* is a junior synonym of *F. paucicostatum*; and *Cadulus halius* is a junior synonym of *C. podagrinus*. Three subspecific taxa are synonymized with the respective nominate species: *Antalis cerata tenax*, *Polyschides rushii arne*, and *Gadila agassizii hatterasensis*. Further, eight new generic combinations are proposed: *Paradentalium americanum* n. comb., *Coccodentalium cancellatum* n. comb., *Fissidentalium peruvianum* n. comb., *Pulsellum teres* n. comb., *Polyschides poculum* n. comb., *Polyschides foweyensis* n. comb., *Polyschides portoricensis* n. comb., and *Polyschides nitidus* n. comb. Thirteen junior homonyms are renamed and listed in the appendix 1.

KEY WORDS

Mollusca,
Scaphopoda,
nomenclature.

RÉSUMÉ

Catalogue des noms du groupe-espèce de scaphopodes (Mollusca) récents et fossiles.
 Ce catalogue contient les noms des taxons récents et fossiles du groupe-espèce des mollusques de la classe des Scaphopoda. Sur un total de 1965 entrées, 517 concernent des taxons valides récents, 816 des taxons valides fossiles, 543 sont des noms invalides et 89 ont été subséquentement exclus des Scaphopoda. L'autorité et les références bibliographiques complètes sont indiquées pour chaque nom. L'allocation générique originale et actuelle, la localité type et le lieu de dépôt du matériel type sont indiqués autant que possible. Pour les taxons récents, les synonymes, distributions géographique et bathymétrique sont indiqués. Les références croisées avec les synonymes plus récents sont basées sur les opinions publiées. Huit espèces sont nouvellement synonymisées dans ce travail : *Dentalium tessellatum* synonyme plus récent de *Entalinopsis habutae* ; *Dentalium caudani* synonyme plus récent de *Fissidentalium candidum* ; *F. ergasticum*, *F. milneedwardsi* et *F. scamnatum* synonymes plus récents de *F. capillosum* ; *F. exuberans* synonyme plus récent de *F. paucicostatum* ; et *Cadulus halius* synonyme plus récent de *C. podagrinus*. Trois taxons subspécifiques sont mis en synonymie avec les espèces nominales correspondantes : *Antalis cerata tenax*, *Polyschides rushii arne* et *Gadila agassizii hatterasensis*. De plus, huit nouvelles combinaisons génériques sont proposées : *Paradentalium americanum* n. comb., *Coccodentalium cancellatum* n. comb., *Fissidentalium peruvianum* n. comb., *Pulsellum teres* n. comb., *Polyschides poculum* n. comb., *Polyschides foweyensis* n. comb., *Polyschides portoricensis* n. comb. et *Polyschides nitidus* n. comb. Treize homonymes plus récents sont renommés et listés en annexe 1.

MOTS CLÉS

Mollusca,
 Scaphopoda,
 nomenclature.

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INTRODUCTION

More than a century has passed since the fundamental work of Pilsbry & Sharp (1897-1898), which revised the molluscan class Scaphopoda on a global scale. Since that work, many new Recent and fossil species have been described. The majority of new Recent taxa were described in monographic works based upon the Indo-Pacific and Atlantic faunal regions. The nomenclatural status of the fossil Scaphopoda is still complicated, although the rectifications of Emerson (1954) and Palmer (1974b) renamed many homonyms. The first author's frustration with inaccurate estimates of Recent species numbers (e.g., Shimek & Steiner 1997: 719; Palmer & Steiner 1998: 431), confusing synonymies and homonyms, tedious searches for type material and for specimens for anatomical studies, all prompted the preparation of this compilation of species-level names with the relevant information.

This catalog contains names of Recent and fossil species-level taxa, i.e. species, subspecies and varieties, and subsequent publications of relevance, known to us through August 2004. Primary sources of information used herein, in addition to the *Zoological Record*, are the publications of Pilsbry & Sharp (1897-1898), Boissevain (1906), Henderson (1920), Cotton & Godfrey (1933, 1940), Emerson (1952b, 1962), Habe (1963, 1964), Chistikov (1982a-c, 1983), Scarabino (1995), and Lamprell & Healy (1998). All references cited herein have been consulted, except for several obscure works that are marked in the bibliography as [not seen].

Pilsbry & Sharp (1897-1898) remains the foundation for all subsequent systematic research on the Scaphopoda. Researchers have not consistently used the correct publication dates for this work, which was published over a two-year period. According to Vanatta (1927: 99), pages 1-80 were published on May 11, 1897; pages 81-144 were published on October 15, 1897; pages 145-224 were published on May 3, 1898; and pages 225-280 and i-xxxii on December 7, 1898. Therefore, in the present catalog, all citations to Pilsbry & Sharp have specified the appropriate year (either

1897 or 1898). The paper by Pilsbry & Sharp in the *Proceedings of the Academy of Natural Sciences of Philadelphia for 1897*, published on 18 January 1898, is cited as "1898a" herein. Pilsbry & Sharp (1897-1898) renamed a number of junior homonyms. Inexplicably, some of their new names are attributed to "Sharp and Pilsbry" [i.e. Sharp & Pilsbry *in* Pilsbry & Sharp], while others are merely "Pilsbry & Sharp". We do not know the reason for this distinction.

The starting point for this catalog, as indeed for any systematic publication on the Scaphopoda, was the monumental catalog of Pilsbry & Sharp (1897-1898) which listed all the Recent and fossil names that they were able to find, from Linnaeus through 1898. The relatively few names that they missed are mostly from publications that were not then regarded as valid, such as the catalogs of Röding (1798) and Link (1807), or from obscure European paleontological publications. We were able to identify some of these omissions through Ruhoff (1979) and Sherborn (1902; 1922-1933), and others through reviewing the secondary literature. In addition, several general paleontological catalogs included additional overlooked names from that time period, including the "Fossilium Catalogus" (Diener 1926: 228-230; Kutassy 1940: 423-425) and the bibliography of North American Late Paleozoic mollusks (Yochelson & Saunders 1967: 14-23).

The compilation of names for the 20th century was more time consuming than might otherwise be expected. The *Zoological Record* proved to be reasonably complete for the Recent taxa, but significantly less so for the paleontological literature, a phenomenon that has been discussed elsewhere (Bouchet & Rocroi 1992, 1993; Edwards & Thorne 1993). We have reviewed the primary and secondary literature on the systematics of the Scaphopoda in an attempt to identify any additional publications that might contain new taxa. Several monographs provide fairly comprehensive bibliographies of publications on Recent taxa (Scarabino 1995: 372-379; Lamprell & Healy 1998: 177-182) and fossil taxa (Fantinet 1959: 83-105; Caprotti 1979: 253-255).

TABLE 1. — List of abbreviations of Scaphopoda type specimens depositories.

Acronym	Institution
AIM	Auckland Institute and Museum, Auckland, New Zealand
AMNH	American Museum of Natural History, New York, USA
AMS	Australian Museum, Sydney, Australia
ANSP	Academy of Natural Sciences, Philadelphia, USA
ASP	Academia Sinica, Beijing, China
BMNH	The Natural History Museum, London, UK
BPBM	Bernice P. Bishop Museum, Honolulu, USA
CAS	California Academy of Sciences, San Francisco, USA
CFES	Central Fisheries Experimental Station, Japan
DMNH	Delaware Museum of Natural History, Delaware, USA
DSTRG	Dipartimento per lo Studio del Territorio e delle sue Risorse, Genova University, Italy
ESN	Department of Earth Science, Nagoya University, Nagoya City, Japan
FGK	Faculty of Geology, Kyoto University, Japan
FM	Field Museum, Chicago, USA
GBA	Geologische Bundesanstalt, Vienna, Austria
GIUT	Geological Institute, University of Tokyo, Japan
GIY	Geological Institute, Yokohama National University, Japan
GPIB	Geologisches-Paläontologisches Institut Bonn, Germany
GPIM	Geologisch-Paläontologisches Institut, Westfälische Wilhelms-Universität, Münster, Germany
GPIMH	Geologisches-Paläontologisches Institut und Museum, Universität Hamburg, Germany
GSC	Geological Survey of Canada, Ottawa
IGG	Institutul de Geologie si Geofizica, Bucarest, Romania
IMT	Institute of Malacology, Tokyo, Japan
IOM	P. P. Shirshov Institute of Oceanology, Academy of Sciences, Moscow, Russia
IOS	Institute of Oceanology, Academia Sinica, Qingdao, China
IRSNB	Institut royal des Sciences naturelles de Belgique [Koninklijk Belgisch Instituut voor Natuurwetenschappen], Brussels, Belgium
JCU	James Cook University, Townsville, Australia
KBINW	Koninklijk Belgisch Instituut voor Natuurwetenschappen, Brussels, Belgium
KIU	Collection of Science Department, Kyoto Imperial University, Kyoto, Japan
LACM	Natural History Museum of Los Angeles County, USA
LS	Linnean Society of London, UK
MAM	Government Museum, Chennai (formerly Madras Museum), India
MCZ	Museum of Comparative Zoology, Cambridge, USA
MGUH	Geological Museum, University of Copenhagen, Denmark
MHNB	Muséum d'Histoire naturelle de Boulogne-sur-mer, France
MHNG	Muséum d'Histoire naturelle de Genève, Switzerland
MHNM	Museo Nacional de Historia Natural, Montevideo, Uruguay
MIGT	Museo Regionale di Scienze Naturali, Torino (Dipartimento di Scienze della Terra, University of Turin, Bellardi-Sacco collection), Italy
MLP	Museo de Ciencias Naturales La Plata, Argentina
MM	Manchester Museum, UK
MMSU	Zoological Museum of Lomonosov State University, Moscow, Russia
MNHN	Muséum national d'Histoire naturelle, Paris, France
MNRJ	Museu Nacional, Rio de Janeiro, Brazil
MPEF-PI	Museo Paleontologico "Egidio Feruglio", Paleontologia de Invertebrados, Trelew, Argentina
MRAC	Musée royal de l'Afrique Centrale, Tervuren, Belgium
MSNM	Museo Civico di Storia Naturale, Milano, Italy
MV	Museum of Victoria, Melbourne, Australia
MZUSP	Museu de Zoologia, Universidade de Sao Paulo, Brazil
NHM	Naturhistorisches Museum Wien, Austria
NM	Natal Museum, Pietermaritzburg, South Africa
NMB	Naturhistorisches Museum Basel, Switzerland
NMC	National Museum of Natural Science, Ottawa, Canada
NMNZ	National Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand
NMT	National Museum of Natural Science, Taiwan
NMW	National Museum of Wales, Cardiff, UK
NSMT	National Science Museum, Tokyo, Japan

Acronym	Institution
NYSM	New York State Museum, Albany, USA
NZGS	New Zealand Institute of Geological and Nuclear Science, Lower Hutt (NZ Geological Survey), New Zealand
PIRS	Primary Industries and Resources of South Australia, Adelaide, Australia
PIUV	Paläontologisches Institut, Universität Wien, Austria
PRI	Paleontological Research Institution, Ithaca, New York, USA
QM	Queensland Museum, Brisbane, Australia
RGM	Rijksmuseum van Geologie en Mineralogie, Leiden, Netherlands
RSM	Royal Scottish Museum, Edinburgh, UK
SAFM	South African Museum, Cape Town, South Africa
SAM	South Australian Museum, Adelaide, Australia
SBMNH	Santa Barbara Museum of Natural History, USA
SHM	Saito Ho-on Kai Museum, Japan
SMF	Natur-Museum Senckenberg, Frankfurt, Germany
SMNH	Naturhistoriska Riksmuseet, Stockholm, Sweden
SMT	Sakurai Museum, Tokyo, Japan; transferred to NSMT
TMH	Tasmanian Museum and Art Gallery, Hobart, Australia
UCM	University of Colorado Museum, Boulder, USA
UCMP	University of California Museum of Paleontology, Berkeley, USA
UIMG	University of Ife, Museum of Geology, Nigeria
UMT	University Museum Tokyo, Japan
UMZC	University Museum of Zoology, Cambridge, UK
UNAM	Instituto de Geologia, Universidad Nacional Autónoma de México, Mexico City, Mexico
UO	University of Oregon, Eugene, USA
UPMN	Museo di Paleontologica, Università di Napoli, Italy
USNM	National Museum of Natural History, Washington, D.C., USA
UWM	Burke Museum of Natural History & Culture, University of Washington, Seattle, USA
WAM	Western Australian Museum, Perth, Australia
WSM	Washington State Museum, Seattle, USA
YPM	Yale Peabody Museum, Yale, USA
ZIN	Zoological Institute, Academy of Sciences, St Petersburg, Russia
ZMA	Zoologisch Museum Amsterdam, Netherlands
ZMB	Zoologisches Museum Berlin, Germany
ZMO	Zoologisk Museum, Universitetet i Oslo, Norway
ZMUC	Zoologisk Museum Copenhagen, Denmark
ZMUU	Zoologiska Museet, Uppsala Universitet, Sweden
ZSI	Zoological Survey of India, Calcutta

The Cenozoic mollusk card catalogs housed by the Department of Paleobiology, National Museum of Natural History, Smithsonian Institution (USNM), are invaluable resources that merit wider notice. During the middle part of the 20th century, Barbara A. Bedette and Druid Wilson, paleontologists associated with the US Geological Survey, maintained a card catalog, comprising 4" × 6" cards with typed information on the Atlantic Gulf Coastal Plain species of Cenozoic mollusks from the southeastern United States (approximately, Maryland to Texas). Meanwhile, another US Geological Survey paleontologist, Wendell P. Woodring, similarly maintained a card catalog, comprising 3" × 5"

cards with handwritten information on the species of Cenozoic mollusks described from "tropical America" (the islands of the Caribbean; Mexico; Central America; and the northern part of South America). Both card catalogs contained entries for fossil scaphopod species described in the 20th century that were not recorded in the *Zoological Record* and were overlooked in the subsequent literature. Although these card catalogs have not been updated for some years, researchers who visit the Smithsonian collections may wish to examine these files.

The catalog consists of 1965 entries. There are 828 entries of Recent scaphopod species-group names, 517 of which are here considered valid

species. The entries are alphabetically ordered by their original binomen following the scheme:

species, *original genus* Author, year: page. Stratigraphy of type locality. Type locality [translated into English and/or modern equivalent as needed]. Depository of type material. Synonymy. *Current taxonomic status* (reference if different from original combination). Geographic distribution. Bathymetric range. Remarks.

Names of valid Recent species are in boldface. Names of the 816 valid fossil species-group names are preceded by a dagger (†) symbol. The synonymies given are based upon published determinations. Where contradictory opinions have been published, one is given preference and the alternative is noted in the Remarks. Synonymies, current status and distribution are given only for a few fossil taxa. Synonymies do not include misidentifications, as their complete listing is beyond the scope of this paper. We have not attempted to resolve all transfers of syntypes and paratypes subsequent to the original descriptions, a problem caused by the fact that such types were sometimes split off from the original lots long after the original descriptions (especially at the museums of the United States of America); thus, types are often located in depositories not cited in the original publication. Additional information such as modern locality names, depths in m, references cited by Linnaeus and Gmelin, etc., is given in square brackets. Boss (1988) provided full references for the often-cryptic abbreviations used by Linnaeus (1758, 1767) and many of those used by Gmelin (1791). Current generic assignments are tentative for many species due to the lack of anatomical data needed to distinguish certain genera. The generic assignments of Recent species that have not been recently studied were based upon the generic diagnoses in Scarabino (1995). Information on bathymetric ranges can be problematic, since published records do not always differentiate between live-collected specimens and empty shells, the latter of which can be transported to deeper depths before being dredged. Hence, researchers interested in determining the bathymetric range for a given species

are advised to examine the relevant specimens in museum collections to ascertain their taphonomic status.

For the sake of completeness, we have included incorrect subsequent spellings in this catalog. They refer to the corresponding valid name. Although these are not available names (ICZN 1999: article 33.3), their inclusion herein will readily allow future generations of researchers who find these names in the older literature to determine their status from this catalog.

Table 1 lists the abbreviations of type specimen depositories taken from Kabat & Boss (1992: 188-232), with some additions. The current depositories of type material were, in some cases, difficult to determine. Information was obtained from the original descriptions, from catalogs of type specimens, on-line searches in museum databases, correspondence with curators, and from visits to The Natural History Museum (London), Muséum national d'Histoire naturelle (Paris), and the National Museum of Natural History (Washington, D.C.). The most important lists of types of Recent scaphopod species, among others listed by Kabat & Boss (1992: 243; 1997: 354), are Turner (1955), Palmer (1958), Dance (1967), Zeidler & Macphail (1978), Giles & Gosliner (1983), Oliver (1984), Scott *et al.* (1990), Spamer & Bogan (1992), Wallin (1992), Kiliyas (1995), and Boyko & Sage (1996). Other important sources of information on types of fossil scaphopod species are Newton (1891), Beecher (1900), Maury (1917), Rossi Ronchetti (1955), Flügel (1959), Ludbrook (1959), Brann & Kent (1960), Hanzawa *et al.* (1961), Keyes (1972), Ferrero Mortara *et al.* (1984), and White (1998). It was not always possible to obtain information on the current status of type material (i.e. if a lectotype had been designated) for several taxa. If the original publication and any relevant subsequent publications, or correspondence with museum curators, did not yield information on the status of type specimens, then the entry reads "Type material in [museum]" without greater specificity. Due to the relocation and re-cataloging of the Mollusca collection in the National Museum of Natural History (Washington,

TABLE 2. — Number of species-group names of Recent and fossil Scaphopoda for the most prolific authors, including original descriptions and replacement names. *, including co-authored species names.

Recent		Fossil		Total	
Author	No.	Author	No.	Author	No.
Henderson	51	Sacco	67	Pilsbry*	99
Scarabino	47	Pilsbry*	54	Sacco	67
Lamprell & Healy	46	Cossmann*	42	Henderson	51
Locard	45	Deshayes	29	Dall	49
Pilsbry*	45	Meyer*	20	Scarabino	47
Boissevain	39	Martin	19	Lamprell & Healy	46
Dall	37	Gardner	18	Locard	45
Watson	31	Tate	18	Cossmann*	45
Sowerby*	30	Koenen	16		
Habe*	19	Chenu	14		
Jeffreys	19	Palmer C. P.	13		
Plate	17	Dall	12		
Chistikov	14	D'Orbigny	12		
		Janssen R.	11		

D.C.), paratype catalog numbers for several species (especially of Henderson's types, which sometimes shared catalog numbers with other lots) are not available at present.

Boissevain (1906), in her monograph on the *Siboga* Expedition scaphopods, introduced 39 species-level names of Scaphopoda. Unfortunately, this monograph had a number of typographical errors regarding the numbers of specimens and dredging station numbers for some of the type material; furthermore, some lectotype designations by subsequent authors have not always clearly identified the precise specimen that was to be the lectotype. Robert Moolenbeek and A. N. Van der Bijl (ZMA) have thoroughly reviewed the *Siboga* type material and Boissevain's annotated copy of her monograph. Based upon this review, they have carefully reconciled the discrepancies in this monograph and in the subsequent literature regarding the type material. We have incorporated their corrections into our catalog.

A comparison of the most prolific authors of Recent species (Table 2) shows that Henderson introduced 52 new names; Scarabino 47 names; Lamprell & Healy 46 names; Locard and Pilsbry 45 names each; Boissevain introduced 39 names of Recent species-group taxa. Sacco coined 67 fossil species-group names; Pilsbry and his co-

authors 54 names; Cossmann and his co-authors 42 names.

Determining the correct locations of type depositories, synonyms and validity of Recent taxa have received considerably greater attention than of fossil taxa, primarily because of the neontological background and interests of the first author. For the same reason, stratigraphic ranges of fossil species are not provided, beyond the information in the original description.

The taxonomic research activity in Scaphopoda, measured in names introduced per decade, varied considerably through time (Fig. 1). After low numbers of species described during the late 18th and early 19th centuries, first the number of newly described fossil species increased in the wake of prospecting and mining activities in the course of the industrial revolution. With the onset of ocean floor sampling expeditions, the numbers of described Recent species followed suit. The 1890s feature the unique peak in scaphopod research with over 280 newly introduced names, most of which originated in the publications of Pilsbry, Locard, Sacco, and Cossmann. The decline in research activity in the 20th century is most conspicuous in the decades of World Wars I and II. Taxonomic activity rebounded in the second half of the past century and peaked in its final decade mainly due to the

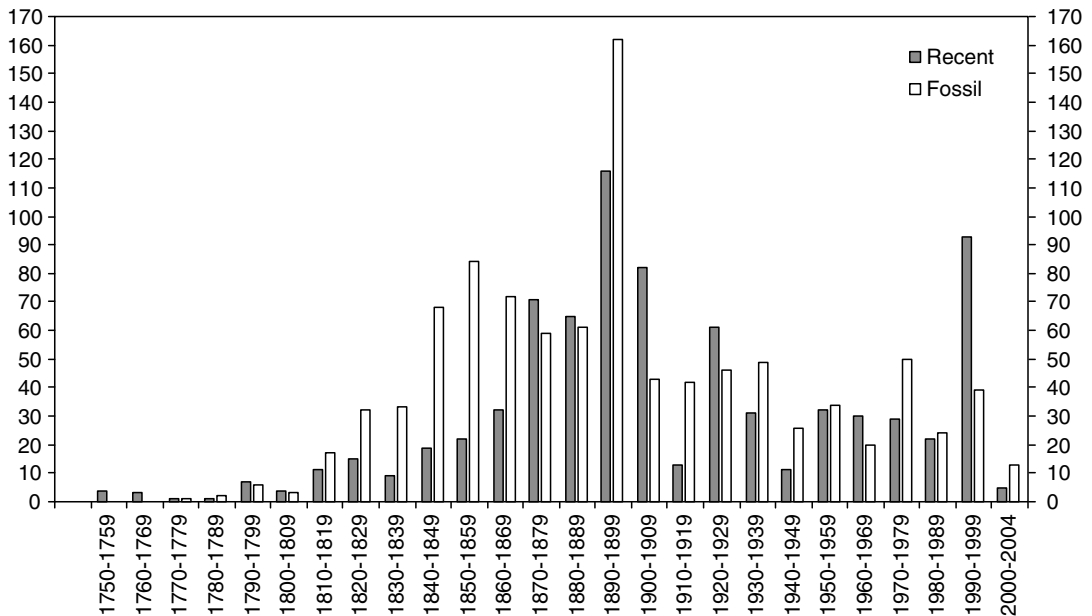


Fig. 1. — Number of species-group names introduced per decade for fossil and Recent taxa. The period from 2000 to 2004 includes the names introduced herein.

monographs of Scarabino (1995) and Lamprell & Healy (1998). With increased sampling activities in the tropical Indo-Pacific region, the level of descriptions of new species will likely be sustained in the first decade of this century. So far, in the period from 2000 to 2004, 18 new names were published, including those introduced in the present paper.

The present contribution to scaphopod taxonomy is not intended as a global revision but constitutes a documentation of the *status quo*. To obtain an accurate estimate of the total number of valid species and the number of species in each genus, it became necessary to include eight hitherto unpublished synonyms and eight new combinations. These include several by B. Métivier (*in litt.*) and V. Scarabino (*in litt.*).

The appendices of the catalog summarize the rectifications of nomenclature with the renamed homonyms (Appendix 1) and the arguments for new synonymies and new generic combinations (Appendix 2). The listing of valid Recent species for each genus (Appendix 3) is updated from

Steiner & Kabat (2001). Finally, Appendix 4 lists the presumably valid fossil taxa by their stratigraphic age.

This catalog is the most complete published compilation of species-level names in the class Scaphopoda. However, we recognize that, given the abundance of this class in the Recent and fossil marine fauna, and the proliferation of publications that have been overlooked by recorders, it is not possible for this catalog to be 100% complete. In particular, we suspect that there are valid names described by Chinese and Russian paleontologists that we have not found (and are not recorded in the *Zoological Record*), because we did not have the time to search through all the relevant publications listed in the Russian *Referativnii Zhurnal* or the Chinese *Gushengwuxue Wenzhai* [Paleontological Abstracts] (see also Bouchet & Rocroi 1992, 1993). For that reason, we do not intend that the present catalog be considered for inclusion in a “List of Available Names in Zoology” pursuant to ICZN (1999) article 79.

LIST OF SPECIES-GROUP NAMES

- abbreviatum*, *Dentalium* Deshayes, 1825. Not a scaphopod. See Other taxa described as Scaphopoda.
- aberrans*, *Cadulus* Whiteaves, 1887: 124, fig. 2. Recent. Dawson stn No. 20, Forward Inlet, Quatsino Sound, north-west coast of Vancouver Island [British Columbia, Canada], 10-20 fms [18-37 m]. Syntypes NMC 555 (5). Junior synonyms: *C. hepburni* Dall, 1897; *C. fusiformis* Pilsbry & Sharp, 1898; *C. nitentior* Arnold, 1903 (*vide* Shimek 1989: 234, 235). *Gadila aberrans* (Whiteaves, 1887) (*vide* Pilsbry & Sharp 1898: 193). Eastern Pacific: Alaska to Southern California. 7-365 m. Remarks: Shimek (1989: 235) erroneously designated USNM 133809 as a "lectotype of *C. aberrans*". Emerson *in* Turgeon (1998: 55) places this in *Cadulus*.
- abruptoinflatus*, *Cadulus* (*Gadila*) Boissvain, 1906: 75, pl. 6, fig. 65, text-fig. 39. Recent. Madura Strait [Indonesia], *Siboga* stn 5, 7°46'S, 114°30.5'E, 330 m. Holotype ZMA 3.06.106. *Gadila abruptoinflata* (Boissvain, 1906) (*vide* Scarabino 1995: 364). Indo-Pacific: Indonesia. 330 m.
- † *abruptus*, *Cadulus* Meyer & Aldrich, 1886: 40, pl. 2, fig. 2. Oligocene. Newton and Wautubbee, Mississippi, USA. Syntypes USNM Paleobiology 638725, 638726. *Dischides abruptus* Meyer & Aldrich, 1886 (*vide* Palmer & Brann 1965: 360, 361). Remark: Aldrich (1895: 4) and Pilsbry & Sharp (1898: 235) as a probable junior synonym of *Cadulus subcoarctatus* (Gabb, 1860).
- † *absconditum*, *Dentalium* Deshayes, 1861: 212, 213, pl. 1, figs 15-17. Eocene. Paris Basin (Parnes, Chaumont, Saint-Félix and Mouchy), France. *Antalis abscondita* (Deshayes, 1861) (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- abyssicola*, *Helonyx subfusiformis* var. Monterosato, 1875: 20, 21. Recent. Palermo [Sicily], 210 m. Type material not located. Junior synonym of *Cadulus jeffreysi* (Monterosato, 1875) (*vide* Pilsbry & Sharp 1898: 163). Remark: Monterosato (1878: 77) elevated this to a full species, but subsequently (1880: 65) treated this as a junior synonym of *Helonyx subfusiformis* (M. Sars, 1865).
- abyssorum*, *Dentalium* M. Sars, 1859: 52. Recent. Norwegian coast. Type material not located. Junior synonym of *Antalis occidentalis* (Stimpson, 1851) (*vide* Thorson & Spärck 1939: 2).
- † *acicula*, *Fustiaria* (*Episiphon*) Hodgkinson, 1974: 22, 23, text-figs 7c-e, 8i-k; pl. 3, figs 2-6, 8, pl. 7, fig. 3, pl. 8, figs 3, 5a, b. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Little Brazos Bluff, Brazos River Valley, Brazos County, Texas, USA. Holotype USNM Paleobiology 180456; paratypes USNM Paleobiology 180451-180455, 180479, PRI 29230, ANSP 31508 (all from Scott's locality MS-2-N, Little Brazos River).
- aciculatum*, *Dentalium* Hall, 1860. Not a scaphopod. See Other taxa described as Scaphopoda.
- aciculum*, *Dentalium* Gould, 1859: 165. Recent. Coast of China, 23°50'N, 25 fms [45 m]. Lectotype USNM 24149 (designated by Johnson 1964: 36, as "holotype"); paralectotypes ANSP 35539 (1), MCZ 169034 (*ex* NYSM 145) (1), MCZ 216577 (1). Junior synonym: *Dentalium luchuanum* Dall, 1926 (*vide* Habe 1964: 24). *Dentalium aciculum* Gould, 1859. Indo-Pacific: China, Japan, Philippine Islands, Indonesia, eastern Australia. 5-1000 m. Remark: Pilsbry & Sharp (1897: 93) placed this species in *Graptacme*, but V. Scarabino (*in litt.* 5.XI.2001) has determined that this is correctly placed in *Dentalium*.
- aciculum*, *Dentalium* Deshayes, 1861: 202, 203, pl. 1, figs 31, 32. Eocene. Paris Basin (Grignon and Montmirel), France. Junior homonym of *Dentalium aciculum* Gould, 1859. Replacement name: *Dentalium acre* Sharp & Pilsbry *in* Pilsbry & Sharp, 1898.
- acompsus*, *Cadulus* (*Polyschides*) *quadridentatus* Henderson, 1920: 100, 101, pl. 17, fig. 4. Recent. Monkey River, British Honduras [Belize]. Holotype ANSP 76557; paratypes ANSP 390502, USNM 314939 (not located). Junior synonym of *Polyschides tetraschistus* (Watson, 1879) (*vide* Scarabino 1980: 11).
- † *acre*, *Dentalium* Sharp & Pilsbry *in* Pilsbry & Sharp, 1898: 197. Eocene. Paris Basin (Grignon and Montmirel), France. Replacement name for *Dentalium aciculum* Deshayes, 1861, a junior homonym of *Dentalium aciculum* Gould, 1859.
- † *acriculum*, *Entalis* Tate, 1887: 192, pl. 20, fig. 11. Lower Miocene. Muddy Creek, Victoria, Australia. Holotype and 8 paratypes SAM T 251. Junior synonym: *Dentalium lacteolum* Tate, 1899 (*vide* Ludbrook 1959: 144). *Dentalium* (*Laevidentalium*) *acriculum* (Tate, 1887) (*vide* Ludbrook 1959: 144, 145, pl. 1, fig. 2).
- actiniophorum*, *Fissidentalium* Shimek, 1997: 181-190, figs 1-6. Recent. Pulse Project, stn 1809 M, 34°44'N, 123°12'W, 4100-4134 m off Southern California. Holotype LACM 2792; paratypes LACM 2793, LACM 2809-2811, USNM 886326, BMNH 1996120-21. *Fissidentalium actiniophorum* Shimek, 1997. Eastern Pacific: California. 4100-4134 m.
- aculeatum*, *Dentalium* Sowerby, 1860: 100, pl. 225, fig. 63. Recent. No information on type locality, type material and distribution. *Antalis aculeata* (Sowerby, 1860) (*vide* Pilsbry & Sharp 1897: 61).
- † *acumen*, *Entalis* "?" de Koninck, 1883: 216, pl. 49, fig. 22. Carboniferous. Visé, Belgium. *Dentalium acumen* (de Koninck, 1883) (*vide* Pilsbry & Sharp 1898: 229).
- acuminatum*, *Dentalium* Deshayes, 1825: 369, pl. 17, figs 19, 20. Eocene. Parnes and Mouchy-le-Châtel, Paris Basin, France. Junior synonym of *Dentalium*

- fissura* Lamarck, 1818 (*fide* Deshayes 1864: 213). *Fustiaria fissura* (Lamarck, 1818) (*fide* Newton & Harris 1894: 65).
- acuminatum*, *Dentalium* Brown, 1849: 243, pl. 98, fig. 74. Name for *Dentalium entalis* sensu J. Sowerby 1814. Tertiary. Hordwell Cliffs, England, United Kingdom. Junior homonym of *Dentalium acuminatum* Deshayes, 1825. Objective junior synonym of *Dentalium entaloides* Fleming, 1825.
- acuminatum*, *Dentalium* Gardner, 1878: 62, pl. 3, figs 34-39. Cretaceous, Gaultian. Folkestone, England, United Kingdom. Junior homonym of *Dentalium acuminatum* Deshayes, 1825 and *Dentalium acuminatum* Brown, 1849. Replacement name: *Dentalium gardneri* Sharp & Pilsbry in Pilsbry & Sharp, 1898, itself a junior homonym of *Entalis gardneri* (Holzapfel, 1888); replacement name: *Dentalium infortunatum* Pilsbry & Sharp, 1898.
- acuminatus*, *Cadulus* "Deshayes" Angas, 1871: 97. Recent. Middle Harbour, Port Jackson, New South Wales, Australia. *Nomen nudum* (*fide* Ludbrook 1978: 86). Remark: it seems unlikely that Angas had misidentified an Australian species with Deshayes' name, since *D. acuminatum* Deshayes, 1825 does not resemble any species assigned to *Cadulus*.
- † *acuminatus*, *Cadulus* Tate, 1887: 194. Oyster beds of the Upper Aldinga series [Late Pliocene of Australia]. Holotype SAM T 231A. *Gadila acuminata* (Tate, 1887) (*fide* Ludbrook 1959: 147). Indo-Pacific: South Australia. 47-164 m.
- acus*, *Cadulus* Dall, 1889: 432, pl. 27, fig. 11. Recent. Samana Bay, Santo Domingo, 16 fms [29 m]. Lectotype USNM 95379 (designated by Henderson 1920: 140); paralectotypes USNM 887454; MCZ 7751, AMNH 148337 (2), AMNH 148342 (8). *Gadila acus* (Dall, 1889) (*fide* Pilsbry & Sharp 1898: 191). Western Atlantic: Caribbean, Florida, Bahamas, Brazil. 20-550 m. Remark: Turner (1955: 317) erroneously stated MCZ 7751 to be the "holotype" (*fide* Boyko & Sage 1996: 29).
- acus*, *Dentalium* Eichwald, 1857. Not a scaphopod. See Other taxa described as Scaphopoda.
- acus*, *Dentalium* Cooke, 1885: 274, 275. Recent. Gulf of Suez. Holotype UMZC I.100,735. Junior homonym of *Dentalium acus* Eichwald, 1857. Replacement name: *Dentalium cookei* Sharp & Pilsbry in Pilsbry & Sharp, 1897: 29.
- † *acutangularis*, *Dentalium sexangulare* var. Cocconi, 1874: 645. Pliocene. Castell'Arquato, Italy.
- acuticosta*, *Dentalium* – Nyst 1835: 36 *non* Deshayes 1825. Oligocene. Near Antwerp, Belgium. Next available name: *Dentalium kickxii* Nyst, 1843.
- † *acuticostata*, *Dentalium* Deshayes, 1825: 357, pl. 18, fig. 3. Eocene. London, England, Great Britain. Replacement name for *Dentalium striatum* J. Sowerby, 1814, a junior homonym of *Dentalium striatum* Born, 1778. Objective junior synonym: *Dentalium bartonense* Palmer, 1974 (n. syn.).
- acuticostatum*, *Dentalium* (*Graptacme*) Plate, 1908a: 352, pl. 30, fig. 37. Recent. Dar-es-Salaam, Tanzania, East Africa, *Valdivia* stn 244, 5°55.8'S, 39°1.2'E, 50 m. Holotype ZMB 61082. Junior homonym of *Dentalium acuticostata* Deshayes, 1825. Replacement name *Graptacme acutistriata* n. nom.
- acutissimum*, *Dentalium* Watson, 1879: 514, 515 [Watson 1886: 8, pl. 1, fig. 8]. Recent. North of Papua New Guinea, *Challenger* stn 218, 2°33'S, 144°04'E, 1070 fms [1957 m]. Lectotype BMNH 1887.2.9.31 (designated by Ludbrook 1954: 110, as holotype); paralectotype BMNH 1887.2.9.32. *Graptacme acutissima* (Watson, 1879) (*fide* Pilsbry & Sharp 1897: 94). Indo-Pacific: East Africa to Australia, Japan and New Caledonia. 865-3749 m. Remarks: paralectotype BMNH 1887.2.9.33 (*Challenger* stn 246, 36°10'N, 178°0'E, east of Japan, 2050 fms) is a different species (Scarabino 1995: 243; Lamprell & Healy 1998: 98). Lamprell & Healy (1998: 97) obviously overlooked Ludbrook's lectotype designation and selected the same specimen as lectotype.
- acutistriata*, *Graptacme* n. nom. Recent. Dar-es-Salaam, Tanzania, East Africa, *Valdivia* stn 244, 5°55.8'S, 39°1.2'E, 50 m. Holotype ZMB 61082. Replacement name for *Dentalium* (*Graptacme*) *acuticostatum* Plate, 1908 *non* *D. acuticostata* Deshayes, 1825. *Graptacme acutistriata* Steiner & Kabat, 2004. Known from type locality only. Remark: Kiliyas (1995: 171) noted that Plate gave the incorrect station number, i.e. stn 247, but the correct coordinates.
- acutisulcatum*, *Dentalium* Gurley, 1883: 7. Carboniferous, "Lower Coal Measures". Newport, Vermillion County, Indiana, USA. Syntypes FM UC.6314 (2) (*fide* Forney & Nitecki 1976: 11). Junior synonym of *Prodentalium obsoletum* (Hall, 1858), the oldest available name for *Dentalium sublaeve* Hall in Miller, 1877, a junior homonym of *Dentalium dentalis* var. *sublaeve* Cocconi, 1874 (*fide* Yancey 1978: 307). Objective junior synonym: *Prodentalium fredericae* Engeser & Riedel, 1992.
- acutooides*, *Dentalium* Emerson, 1954: 183. Jurassic, Pliensbachian. Railway-cutting, Dixon West, near Gotherington, near Cheltenham, England, United Kingdom. An unnecessary replacement name for *Dentalium acutum* Richardson, 1906, a junior homonym of *Dentalium acutum* Hébert, 1849. Objective junior synonym of *Dentalium richardsoni* Cossmann, 1907.
- † *acutum*, *Dentalium* Hébert, 1849: 469. Oligocene. Dego, Tertiary Piedmont Basin [Italy]. Junior synonyms: *Dentalium nysti* d'Orbigny, 1852 (*fide* Pilsbry & Sharp 1898: 197); *Dentalium* (*Entalis*) *acuta* var. *apenninica* Sacco, 1897 (*fide* Bonci *et al.* 2000: 206, 207). *Antalis acuta* (Hébert, 1849) (*fide* Bonci *et al.* 2000: 206, 207, pl. 1, fig. 4). Remark: The specimens Deshayes (1864: 205, pl. 20, figs 1-4)

- misidentified as *Dentalium acutum* belong to *Dentalium novaki* Koenen, 1892 (*vide* Cossmann 1892: 330).
- acutum*, *Dentalium* Richardson, 1906: 574, pl. 45, figs 10, 11. Jurassic, Pliensbachian. Railway-cutting, Dixon West, near Gotherington, near Cheltenham, England, United Kingdom. Junior homonym of *Dentalium acutum* Hébert, 1849. Replacement names: *Dentalium richardsoni* Cossmann, 1907; *Dentalium acutooides* Emerson, 1954.
- † *addicotti*, *Cadulus* (*Platyschides* “?”) Emerson, 1957: 990, pl. 126, fig. 2. Miocene, Temblor stage. 1 mile SW of mouth of Kern River Gorge, Kern County, California, USA. Holotype UCMP 37584; paratypes UCMP 37585-UCMP 37589.
- † *adelaidense*, *Siphonodentalium* (*Pulsellum*) Ludbrook, 1956: 4, pl. 1, fig. 1. Pliocene. Hindmarsh Bore and Dry Creek Sands, South Australia. Holotype SAM F 15141; 4 paratypes SAM.
- adenense*, *Dentalium* (*Dentalium*) Ludbrook, 1954: 97, fig. 2. Recent. Gulf of Aden, John Murray Exp. stn 28, 12°00'N, 50°38'42"E, 201 m. Holotype BMNH 1952.3.25.124; paratypes BMNH 1952.2.25.252-261, BMNH 1952.2.25.251 (stn 103, 101 m), BMNH 1952.3.25.262 (stn 180, 397 m), BMNH 1952.3.25.263-272 (stn 179B, 275 m), BMNH 1952.3.25.46-52 (stn 185, 2000 m). *Dentalium adenense* Ludbrook, 1954. Red Sea. 201-2000 m. Remark: BMNH 1952.3.25.124 carries the label “stn 185, 2000 m”.
- adenensis*, *Entalina* Ludbrook, 1954: 112, fig. 17. Recent. Gulf of Aden, John Murray Exp. stn 185, 2000 m; 13°48'06"-36"N, 49°16'48"-24"E. Holotype BMNH 1952.3.25.20; paratype BMNH 1952.3.25.21. *Entalina adenensis* Ludbrook, 1954. Known from type locality only.
- aegeum*, *Dentalium* Watson, 1879: 509, 510 [Watson 1886: 2, pl. 1, fig. 2]. Recent. Off London River, Kerguelen Islands, *Challenger* stn 149 (8), 48°50'S, 69°18'E, 110 fms [198 m]. Holotype BMNH 1887.2.9.8. *Fissidentalium aegeum* (Watson, 1879) (*vide* Pilsbry & Sharp 1897: 69). Indian Ocean. 88-2926 m.
- aenigmaticum*, *Dentalium* Jordan, 1895: 264, 265, pl. 16, fig. 1. Recent. Faroe Channel, “cold area”, *Triton* stn 8 [60°18'N, 06°15'W, *vide* Warén 1980: 59], 640 fms [1174 m]; off West coast of Ireland, 1000 fms [1828 m]. Syntype(?) NMW. Junior synonym of *Antalis occidentalis* (Stimpson, 1851) (*vide* Friele & Grieg 1901: 49).
- † *aequalis*, *Dentalium* Deshayes, 1861: 205, pl. 20, figs 5-7. Eocene. Paris Basin (Cuise-la-Motte, Laversine, Laon, Osly and Cuisy-en-Almont), France. Remark: a valid species of *Antalis* (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- aequalis*, *Cadulus* Dall, 1881: 34. Recent. Off Tortugas, *Blake* stn 43, 24°08'N, 82°51'W, 339 fms [618 m]. Lectotype USNM 95373 (designated by Henderson 1920: 109); paralectotypes USNM 887455, MCZ 7740. *Gadila aequalis* (Dall, 1881) (*vide* Pilsbry & Sharp 1898: 170). Western Atlantic, Caribbean: Florida. 618 m. Remark: Turner (1955: 318) erroneously stated that MCZ 7740 was the holotype.
- aequatorialis*, *Cadulus* (*Gadila*) Jaekel, 1932: 311, 312, text-fig. 10. Recent. Off West Sumatra, *Valdivia* stn 191, 0°39.2'S, 98°52.3'E, 750 m. Lectotype ZMB 75372 (designated by Kilias 1995: 171); paralectotype ZMB 75373 (stn 256, off Somalia, 1°49'N, 45°29.5'E, 1134 m). *Cadulus aequatorialis* Jaekel, 1932. Indo-Pacific: East Africa to Indonesia and New Caledonia. 750-1915 m.
- aequatorium*, *Dentalium* (*Rhabdus*) Pilsbry & Sharp, 1897: 112, 113, pl. 21, fig. 43. Recent. Off Manta, Ecuador, U.S. Fish Commission, stn 2792, 401 fms [720 m]. Holotype USNM 122759. *Rhabdus aequatorius* (Pilsbry & Sharp, 1897). Known from type locality only.
- aequicostata*, *Dentalium dentalis* var. Foresti, 1895: 252. Pliocene. Ponticello in val di Savena, near Bologna, Italy. Junior homonym of *Dentalium aequicostatum* Koenen, 1892. Junior synonym of *Antalis dentalis* (Linnaeus, 1758). Remark: under ICZN (1999) articles 31.2 and 34.2, this species name must be emended to *aequicostatum* in order to agree in gender with *Dentalium*, which renders it a junior homonym. Its synonymy with *Antalis dentalis*, however, makes it unnecessary to introduce a replacement name.
- † *aequicostatum*, *Dentalium* Koenen, 1892: 981-983, pl. 59, figs 3, 4. Lower Oligocene. Lettorf, Calbe and Unseburg, Germany.
- affine*, *Dentalium* Biondi, 1859: 120-122, pl. 1, fig. 7. Recent. Sicily, Italy. Type material not located. Junior synonym of *Antalis vulgaris* (Da Costa, 1778) (*vide* Pilsbry & Sharp 1897: 42).
- affine*, *Dentalium* Deshayes, 1861: 201, pl. 1, figs 12-14. Eocene. Paris Basin (Parnes), France. Junior homonym of *Dentalium affine* Biondi, 1859. Replacement names: *Dentalium xiphias* Pilsbry & Sharp, 1898; *Dentalium desmoulinsi* Le Renard, 1994.
- affine*, *Dentalium* Gabb, 1873: 244. Tertiary. Dominican Republic. Syntype ANSP 2711. Junior homonym of *Dentalium affine* Biondi, 1859, and *Dentalium affine* Deshayes, 1861. Replacement name: *Dentalium gabbi* Pilsbry & Sharp, 1898a.
- affine*, *Siphonodentalium* [sic] Gardner, 1878: 62, 63, pl. 3, figs 41-44. Cretaceous, Gaultian. Folkestone, England, United Kingdom. Junior homonym of *Siphonodentalium affine* M. Sars, 1865; replacement name: *Entalina gardneri* Sharp & Pilsbry *in* Pilsbry & Sharp, 1898.
- affine*, *Siphonodentalium* M. Sars, 1865a: 300, 301, pl. 6, figs 34, 35. Recent. Lofoten Islands [Norway], 100-300 fms [183-548 m]. Syntypes

- SMNH 4625 (Lofoten, 200-300 fms [365-548 m]). *Pulsellum affine* (M. Sars, 1865) (*vide* Pilsbry & Sharp 1897: 140). Northern Atlantic. 70-3400 m.
- africanum*, *Dentalium* Sowerby, 1903: 224, 225, pl. 5, fig. 10. Recent. Natal, South Africa, north of Umtwalumi [Mtwalume] River, 25 fms [45 m]. Holotype BMNH 1903.7.27.54; paratypes BMNH 1903.7.27.55-56, SAFM A5489 (A5491), ZMB 59876, NMW. *Graptacme africana* (Sowerby, 1903) (*vide* Scarabino 1995: 244). Indian Ocean: South Africa, Madagascar. 45-384 m.
- agassizi*, *Dentalium* (*Dentalium*) Pilsbry & Sharp, 1897: 26, 27, pl. 12, figs 90-94. Recent. Gulf of Panama, *Albatros* stn 3393, 7°15'N, 79°36'W, 1020 fms [1862 m]. Holotype USNM 122985; paratypes USNM 601273. *Dentalium agassizi* Pilsbry & Sharp, 1897. Eastern Pacific: California to Panama. 757-2322 m.
- agassizii*, *Cadulus* Dall, 1881: 35. Recent. South of Marquesas Key, Florida, *Blake* stn 5, 24°05'N, 82°13'W, 229 fms [418 m]. Holotype MCZ 7764. Synonym: *Cadulus agassizii hatterasensis* Sharp & Pilsbry in Pilsbry & Sharp, 1898 (n. syn.). *Gadila agassizii* (Dall, 1881) (*vide* Pilsbry & Sharp 1898: 168). Western Atlantic: Florida to Maine. 40-545 m. Remark: Emerson in Turgeon (1998: 55) places this in *Polyschides*.
- agile*, *Dentalium* G. O. Sars, 1872: 31-34, pl. 3, figs 4-15 [ex M. Sars MS]. *Nomen nudum* in M. Sars (1869: 257 [14]). Recent. Lofoten Islands, Norway. Syntypes ZMO 32725, 25955-56, 26034 (16), 26035 (44). Name for *Dentalium incertum* sensu Philippi 1844, a junior homonym of *Dentalium incertum* Deshayes, 1825. Junior synonym: *Dentalium fusticulus* Brugnone, 1876 (*vide* Monterosato 1880: 64); *Dentalium vagina* Jeffreys, 1877 (*vide* Pilsbry & Sharp 1897: 46). *Antalis agilis* (G. O. Sars, 1872) (*vide* Pilsbry & Sharp 1897: 46). Eastern Atlantic: Iceland and Norway to Ascension Island, and North Africa, Mediterranean; Western Atlantic: Canada to Caribbean. 60-5000 m.
- agulhasense*, *Dentalium* Plate, 1908a: 349, pl. 30, figs 21-23. Recent. Cap Agulhas [South Africa], *Valdivia* stn 95, 34°51'S, 19°37.8'E, 80 m. Lectotype ZMB 61087a (designated by Kilius 1995: 172); paralectotype ZMB 61087b. Junior synonym of *Dentalium strigatum* Gould, 1859 (*vide* Barnard 1974: 742).
- † *akasakiensis*, *Dentalium* Hayasaka, 1925: 107, 108 [23, 24], pl. 8 [1], figs 17, 17a. Permian. Kinshozan, Akasaka-Machi, Mino province, Japan. Holotype Inst. Geol. Paleont., Tohoku Univ. (*vide* Hanzawa *et al.* 1961: 209).
- † *alatum*, *Dentalium* Gardner, 1878: 60, 61, pl. 3, figs 16-20. Cretaceous, Gaultian. Folkestone, England, United Kingdom.
- † *alazanum*, *Dentalium* (*Dentalium*) Cooke, 1928: 9, pl. 2, figs 6, 6a. Oligocene. Alazan Clay, Rio Buena vista, west of Alazan, Vera Cruz, Mexico. Syntype USNM Paleobiology 352709 (1).
- alba*, *Dentalium scamnatum* var. Locard, 1898: 110. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Dentalium scamnatum*, a junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877) (B. Métivier, n. syn.).
- albicomatus*, *Cadulus* Dall, 1890: 295, pl. 9, fig. 8. Recent. Off Manta, Ecuador, USFC stn 2792, 0°37'S, 81°W, 401 fms [731 m]. Syntypes USNM 602251, USNM 87539, SBMNH 35018 (2), AMNH 146292 (1). *Striocadulus albicomatus* (Dall, 1890) (*vide* Emerson 1962: 478). Eastern Pacific: Ecuador, Gulf of Panama. 731-3056 m.
- albida*, *Dentalium agile* var. Locard, 1898: 118. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Antalis agilis* (G.O. Sars, 1872).
- albida*, *Dentalium ergasticum* var. Locard, 1898: 106. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Dentalium ergasticum* P. Fischer, 1883, a junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877) (B. Métivier, n. syn.).
- albida*, *Dentalium rubescens* var. Monterosato, 1875: 20; 1878: 76. *Nomen nudum*.
- albida*, *Dentalium semivestitum* var. Locard, 1898: 109. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Fissidentalium semivestitum* (P. Fischer in Locard, 1898).
- albina*, *Dentalium vulgare* var. Monterosato, 1884: 32. *Nomen nudum* without type locality or description.
- albina*, *Pseudantalis rubescens* var. Monterosato, 1884: 33. *Nomen nudum* without type locality or description.
- † *aldrichi*, *Cadulus* Gardner, 1933: 200, pl. 20, fig. 1. Eocene, Midway Group, Wills Point Formation. USGS stn 8245, Salado Creek, Bexar County, 5.3 miles SE of San Antonio, Texas, USA. Holotype USNM Paleobiology 373066. Name for *Cadulus subcoarctatus* sensu Aldrich 1895.
- † *alineatum*, *Dentalium* Stephenson, 1952: 142, pl. 34, figs 1, 2. Upper Cretaceous, Cenomanian, Woodbine Formation. Lamar County Locality 201, near old Slate Shoals, Red River, 8 miles east of Arthur City, Lamar County, Texas, USA. Holotype USNM Paleobiology 105603; paratypes USNM Paleobiology 105604-105606.
- alloschismum*, *Dentalium* (*Laevidentalium*) *liodon* var. Pilsbry & Sharp, 1897: 108, pl. 21, figs 40-42. Recent. St Martin [Caribbean]. Holotype ANSP 35552. Synonym of *Fustiaria liodon* (Pilsbry & Sharp, 1897) (*vide* Díaz 1989: 31, as *Laevidentalium liodon* "forma" *alloschismum*; generic placement *vide* Scarabino 1975: 185). Caribbean. 63-120 m (*vide* V. Scarabino, *in litt.* 5.XI.2001).
- alternans*, *Dentalium* Chenu, 1843: pl. 4, fig. 17; 1850: 1. Type locality not specified. Type material not located. *Nomen dubium*.

- alternans*, *Dentalium* J. Müller, 1851: 5, pl. 3, figs 1a, 1b. Cretaceous. Königsthor, Germany. Junior homonym of *Dentalium alternans* Chenu, 1843. Replacement name: *Dentalium muellerianum* Pilsbry & Sharp, 1898.
- alternans*, *Dentalium* Ryckholt, 1851: 71, 72, pl. 2, figs 45, 46. Cretaceous: Turonian. Visé, Belgium. Junior homonym of *Dentalium alternans* Chenu, 1843, and *Dentalium alternans* Müller, 1851; replacement name: *Dentalium confusum* Sharp & Pilsbry in Pilsbry & Sharp, 1898.
- alternans*, *Dentalium* Bucquoy, Dautzenberg & Dollfus, 1882: 561-564, pl. 66, figs 7-9. Recent. Roussillon [Gulf of Lion, Mediterranean coast of France]. Junior homonym of *Dentalium alternans* Chenu, 1843. Replacement name: *Dentalium inaequicostatum* Dautzenberg, 1891. *Antalis inaequicostata* (Dautzenberg, 1891) (generic placement *vide* Pilsbry & Sharp 1897: 52). Remark: *Dentalium inaequicostatum* is itself a junior homonym of *Dentalium inaequicostata* Seguenza, 1879. However, we prefer not to introduce yet another name for this taxon until its status is clear (see also Remarks for *Antalis inaequicostata*). Earlier replacement names turned out to be preoccupied: *Dentalium dollfusi* Cossmann, 1899 is a junior homonym of *Dentalium dollfusi* Koenen, 1883. Moreover, Cossmann was unaware of *Dentalium inaequicostatum* Dautzenberg, 1891 (*vide* Cossmann 1900b: 186).
- alternans*, *Antale dentale* var. Sangiorgi, 1926: 119, pl. 7 [1], fig. 31 [*ex* Berti MS]. Neogene. Ponticella di Savena, near Bologna, Italy. Junior secondary homonym of *Dentalium alternans* Chenu, 1843, *Dentalium alternans* Müller, 1851, *Dentalium alternans* Ryckholt, 1851, and *Dentalium alternans* Bucquoy, Dautzenberg & Dollfus, 1882. Replacement name: *Dentalium sangiorgii* Emerson, 1954. *Antalis sangiorgii* (Emerson, 1954) (*vide* Caprotti 1979: 237).
- alternatum*, *Dentalium* Lea, 1833: 34, 35, pl. 1, fig. 2. Eocene. Claiborne, Alabama, USA. Lectotype ANSP 5005 (designated by Palmer & Brann 1965: 369 as "holotype"); paralectotypes ANSP 5006 to 5014. Junior synonym of *Dentalium thalloides* Conrad, 1833 (*vide* Pilsbry & Sharp 1898: 218).
- amaliense*, *Dentalium* (*Graptacme*) Henderson, 1920: 71, pl. 11, figs 4, 5. Recent. St Thomas [Virgin Islands]. Holotype and paratype USNM 250088. Junior synonym of *Graptacme eborea* (Conrad, 1846) (*vide* Scarabino 1975: 185).
- † *amalthæi*, *Dentalium* Engel, 1891: 34, pl. 3, fig. 11 [as *nomen nudum* in Engel 1890: 42]. Jurassic. Middle Liassic. Filsbetts near Eisingen, Germany. *Laevidentalium amalthæi* (Engel, 1891) (*vide* Engeser & Riedel 1992: 40, 44).
- ambiguum*, *Dentalium* Chenu, 1843: pl. 3, fig. 1; 1850: 1. Recent. Type locality unknown. Syntype(?) MHNG 1155/34 (*vide* Y. Finet in litt. 16.X.1996).
- Laevidentalium*(?) *ambiguum* (Chenu, 1843) (*vide* Pilsbry & Sharp 1897: 100). Remark: Generic placement and systematic validity of this taxon are uncertain.
- americanum*, *Dentalium* Chenu, 1843: pl. 4, figs 9, 10; 1850: 1. Recent. "Côtes d'Amérique". Syntype(?) MHNG 1155/15. Junior synonyms: *Dentalium texasianum* Philippi, 1849; *Dentalium picteti* Pilsbry & Sharp, 1897; *Dentalium texasianum rioense* Henderson, 1920; *Dentalium texasianum cestum* Henderson, 1920; *Dentalium rebeccaense* Henderson, 1920 (*vide* Scarabino 1975: 183). *Paradentalium americanum* (Chenu, 1843) n. comb. Western Atlantic and Caribbean: Florida to Brazil. 5-150 m.
- amiantus*, *Cadulus* Dall, 1889: 431, pl. 27, fig. 7. Recent. Off Bahia Honda, Cuba, Blake stn 19, 23°03'N, 83°10'30"W, 310 fms [566 m]. Lectotype MCZ 7749 (designated by Henderson 1920: 128, 129, as "the type"); paralectotypes USNM 95378 (off Cape San Antonio, Cuba, 1002 fms [1829 m]); the other type specimen cited by Dall (off Cape Florida, 8 fms [15 m]) was not located. *Gadila amianta* (Dall, 1889) (*vide* Pilsbry & Sharp 1898: 174). Western Atlantic: Caribbean. 15-1829 m. Remark: Henderson (1920: 113, 114) recognized that the original description of *Cadulus amiantus* Dall, 1889 encompassed two species; therefore, he described *parvus* for those specimens of "amiantus" that were not conspecific with *amiantus* s.s.
- ambialium*, *Dentalium* Watson, 1879: 510 [Watson 1886: 3, pl. 1, fig. 3]. Recent. Mouth of La Plata River, *Challenger* stn 323, 35°39'S, 50°47'W, 1900 fms [3468 m]. Lectotype BMNH 1887.2.9.9 (designated by Henderson 1920: 59 as "the type"); the second specimen mentioned by Watson was not found. *Fissidentalium ambialium* (Watson, 1879) (*vide* Pilsbry & Sharp 1897: 71). Western Atlantic: Brazil. 1800-3740 m.
- amphora*, *Cadulus* Jeffreys, 1883: 665, 666, pl. 49, figs 9-11. Recent. *Porcupine* 1870, Atlantic, stn 16, 54°19'N, 11°50'W, 816 fms [1489 m] (*vide* Warén 1980: 53, 57). Holotype BMNH 85.11.5.1286 (*vide* Warén 1980: 53). *Cadulus amphora* Jeffreys, 1883. Eastern Atlantic. 1489 m.
- ampullaceus*, *Cadulus* Watson, 1879: 529 [Watson 1886: 23, pl. 3, fig. 11]. Recent. Culebra Island, West Indies, *Challenger* stn 24, 18°38'30"N, 65°05'30"W, 390 fms [712 m]. Holotype BMNH 1887.2.9.93. *Cadulus ampullaceus* Watson, 1879. Western Atlantic: Caribbean. 320-3392 m.
- anatorum*, see *aratorum*.
- † *anceps*, *Dentalium* J. Sowerby in Wetherell, 1837: 135, 136, pl. 8, fig. 17. Eocene. Lower Heath, Hampstead, London, Great Britain. *Antalis anceps* (J. Sowerby in Wetherell, 1837) (*vide* Newton & Harris 1894: 66, as "Entaliopsis").
- anceps*, *Dentalium* Vinassa de Regny, 1898: 185 [143], pl. 20 [7], figs 13-15 [*ex* Meneghini MS].

- Oligocene. Via degli Orti and Valle Orgagna, Italy. Junior homonym of *Dentalium anceps* J. Sowerby, 1837. Replacement name: *Dentalium vinassai* Cossmann, 1912.
- andersoni*, *Polyschides* Lamprell & Healy, 1998: 170, figs 174E, 175E, 180. Recent. Off Woollongong, New South Wales, Australia, 34°27'-26'S, 151°27'E, 1200 m. Holotype AMS C174896; paratypes AMS C169929 (22), AMS C173797 (2); 80 km south west of Cape Martin, South Australia, 37°50'-55'S, 139°15'-25'E, 1555 m), AMS C174895 (3; off Sydney, New South Wales, 33°31.33'S, 152°08-07'E, 914-907 m), AMS C169930 (1; off Sydney, New South Wales, 33°37-39'S, 152°04.02'E, 924-896 m), AMS C169932 (9; east off Sydney, New South Wales, 33°35-37'S, 152°05'E, 1143-1106 m), AMS C169933 (3; off Nowra, New South Wales, 34°50'S, 151°15'E, 841 m), AMS C169934 (5; off Sydney, New South Wales, 33°35'S, 152°09'E, 1097 m), AMS C169988 (7; east of Sydney, New South Wales, 33°44'S, 151°57'E, 322 m). *Polyschides andersoni* Lamprell & Healy, 1998. Indo-Pacific: SE Australia. 153-1555 m.
- † *andleri*, *Dentalium* Oppel, 1856: 93. Jurassic. Near Vaihingen, Germany. Remark: Tate (1870b: 17) suggested that *Dentalium andleri* Oppel, 1856 "is probably a synonym" of *Dentalium portlocki* Tate, 1870 [Jurassic, Ireland], "but, assuming that the two names refer to the same species, the imperfect diagnosis of Oppel justifies me in discarding his name".
- † *andrewsi*, *Dentalium* Cuveillier, 1933: 27, pl. 3, fig. 7. Eocene, Bartonian. Gebel Mokattam, east of Kaït-Bey, Egypt.
- † *angelae*, *Prodentalium* Engeser & Riedel, 1992: 41. Triassic. North of Launsdorf, Austria. Replacement name for *Dentalium arctoides* var. *multicostata* Gugenberger, 1934, a junior homonym of *Dentalium multicostatum* Favre, 1869.
- † *angsanatum*, *Dentalium* (s.s.) Martin, 1921: 479, pl. 60 [3], fig. 87. Miocene. Tji Angsana, near Njalindung, Java, Indonesia. Holotype RGM 7282 (*fide* Van den Hoek Ostende *et al.* 2002: 111).
- anguidens*, *Cadulus* Melvill & Standen, 1898: 32, pl. 1, fig. 6. Recent. Off Madras, India. Syntypes Manchester Museum (*fide* Trew 1987: 24). *Gadila anguidens* (Melvill & Standen, 1898) (*fide* Scarabino 1995: 364). Indo-Pacific: India, Indonesia, Japan, Red Sea. 2-732 m.
- † *angulare*, *Dentalium* Kaunhowen, 1897: 13, pl. 1, fig. 1. Cretaceous, Maestrichtian. Kunraed, Germany.
- angulati*, *Dentalium* Quenstedt, 1852: 443. Jurassic, Liassic. Europe. *Nomen nudum*.
- † *angulatum*, *Dentalium* Buckman *in* Murchison, 1845: 101. Jurassic, Pliensachian. Lias Marlstone, Alderton, Dumbleton and Stanway Hills, England, Great Britain. Remark: Engeser & Riedel (1992: 37) concluded that "the description does not correspond with any known scaphopod genus".
- angulatum*, *Dentalium* Vinassa de Regny, 1897: 163 [ex Meneghini MS]. Tertiary. Roncà, Italy. Junior homonym of *Dentalium angulatum* Buckman *in* Murchison, 1845. Remarks: Vinassa de Regny considered the single, incomplete shell only to be a new form. We prefer not to introduce a replacement name for this dubious species.
- † *angusticostatum*, *Dentalium* (*Antalis*) Baluk, 1972: 556, 557, pl. 1, figs 6-8, text-figs 5a-c. Miocene, Lower Tortonian (Badenian). Korytnica, 24 km south-southwest of Kielce, Holy Cross Mountains, Poland. Holotype and paratypes, Baluk collection.
- angustior*, *Cadulus* Verco, 1911a: 211, 212, pl. 26, figs 5, 5a, b. Recent. 18 miles SE of Newland Head, outside Backstairs Passage, South Australia, 26 fms [48 m]. Holotype SAM D 13728; possible paratype NMW. *Gadila angustior* (Verco, 1911) (*fide* Lamprell & Healy 1998: 150). South Australia. 24-667 m.
- angustistriatum*, *Paradentalium* Chistikov, 1979a: 110, 111, fig. 2. Recent. Vietnam, Orlik T.13, 18°00'N, 109°16'E, 47 m. Holotype MMSU. *Paradentalium angustistriatum* Chistikov, 1979. Indo-Pacific: Vietnam. 22-151 m.
- † *angustum*, *Dentalium* Deshayes, 1861: 210, 211, pl. 1, figs 1-3. Eocene. Paris Basin (Grignon, Parnes, Fontenay-Saint-Père, Mouchy, Mouy and Vaudancourt), France. Remark: a valid species of *Antalis* (*fide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- † *anisicum*, *Dentalium* Schnetzer, 1934: 32, pl. 1, figs 7-10. Middle Triassic, Anisian. Saalfelden, Austria.
- † *annectens*, *Cadulus* (*Platyschides*) Woodring, 1925: 210, pl. 28, fig. 11. Miocene. Bowden, Jamaica. Holotype USNM Paleobiology 353077.
- annulare*, *Dentalium* Sowerby, 1829: 199. Recent. East Indies. Types not located in BMNH. Junior synonym of *Laevidentalium eburneum* (Linnaeus, 1767) (*fide* Pilsbry & Sharp 1897: 116).
- annulata*, *Dentalium* McClelland, 1834. Not a scaphopod. See Other taxa described as Scaphopoda.
- annulata*, *Entaliopsis* Newton & Harris, 1894: 67, pl. 6, fig. 1. Eocene, London Clay. Portsmouth, Southampton and Primrose Hill, England, Great Britain. Secondary junior homonym of *Dentalium annulatum* Gmelin, 1791; *Dentalium annulatum* Cristofori & Jan, 1832; *Dentalium annulatum* Sandberger, 1842; *Dentalium annulatum* Meyer, 1886; and *Entalis annulatum* Tate, 1887; replacement name: *Dentalium entaliopsis* Pilsbry & Sharp, 1898. Junior synonym of *Antalis constricta* (Newton & Harris, 1894) (*fide* Jeffery & Tracey 1997: 90, 91).
- † *annulatum*, *Dentalium* Gmelin, 1791: 3738 [citing Guettard (Mineral. Belustig. 4 t. 5 f. 3)]. [Fossil]. Type locality not specified. Remarks: Sacco (1897: 112) listed two Italian citations to this species as a

- potential senior synonym of *Dentalium* (*Fustiaria*) *jani* Hörnes, 1856. We have not found the publication of Guettard as cited by Gmelin.
- annulatum*, *Dentalium* Cristofori & Jan, 1832: 2. [Fossil]. Italy. Types not located. Junior homonym of *Dentalium annulatum* Gmelin, 1791. Sacco (1897: 112) listed this name together with *Dentalium annulatum* Gmelin as a potential senior synonym of *Dentalium* (*Fustiaria*) *jani* Hörnes, 1856. We, thus, do not propose a replacement name until the relationships of these taxa are revised.
- annulatum*, *Dentalium* Jay, 1850. Not a scaphopod. See Other taxa described as Scaphopoda.
- annulatum*, *Dentalium* Sandberger & Sandberger, 1856: 240, pl. 26, figs 20, 20a. *Nomen nudum* in Sandberger (1842: 399). Carboniferous. Villmar ("Stringocephalenkalk"), Germany. Junior homonym of *Dentalium annulatum* Gmelin, 1791; *Dentalium annulatum* Cristofori & Jan, 1832. Replacement name: *Dentalium annuliferum* Pilsbry & Sharp, 1898.
- annulatum*, *Dentalium* Meyer, 1886: 64, 65, pl. 1, fig. 1. Eocene. Claiborne, Alabama, USA. Lectotype USNM Paleobiology 638812 (as "holotype" in Palmer & Brann 1965: 365). Junior homonym of *Dentalium annulatum* Gmelin, 1791; *Dentalium annulatum* Cristofori & Jan, 1832; *Dentalium annulatum* Sandberger & Sandberger, 1856. Replacement name *Dentalium parannulatum* n. nom. Remark: Hodgkinson (1974: 20) concluded that this species "probably is valid", having rejected the conclusion of Palmer (1937: 19) that it was the juvenile stage of *Dentalium minutistriatum* Gabb, 1860. However, neither Palmer nor Hodgkinson renamed this junior homonym.
- annulatum*, *Dentalium* Kokay, 1966: 67, 113, pl. 10, fig. 15. Miocene, Tortonian. Bakony, Hungary. Holotype Hungarian Geological Collection, M.279. Junior homonym of *Dentalium annulatum* Gmelin, 1791, *Dentalium annulatum* Cristofori & Jan, 1832, *Dentalium annulatum* Sandberger & Sandberger, 1856, *Dentalium annulatum* Meyer, 1886; replacement name: *Dentalium bakoniense* Palmer, 1974.
- annulatum*, *Entalis* Tate, 1887: 191, 192, pl. 20, figs 6a, 6b. Miocene. Muddy Creek, Victoria, Australia. Holotype and 3 paratypes SAM T 250A. Junior secondary homonym of *Dentalium annulatum* Gmelin, 1791. Replacement name: *Dentalium australis* Sharp & Pilsbry in Pilsbry & Sharp, 1898. *Laevidentalium australe* (Sharp & Pilsbry in Pilsbry & Sharp, 1898) (*fide* Ludbrook 1959: 145).
- † *annulatus*, *Cadulus* Pilsbry, 1911: 168. Miocene. Bowden, Jamaica. Syntype ANSP 649. *Polyschides annulatus* (Pilsbry, 1911) (*fide* Woodring 1925: 207, 208, as *Cadulus* (*Polyschides*) *annulatus*).
- annulatus*, *Dentalites* Krueger, 1823: 312. [Fossil]. Paris, France. Remark: this taxon might correspond to *Dentalium annulatum* Gmelin, 1791; but Krueger did not cite Gmelin.
- † *annuliferum*, *Dentalium* Pilsbry & Sharp, 1898: 229. Carboniferous. Villmar ("Stringocephalenkalk"), Germany. Replacement name for *Dentalium annulatum* Sandberger & Sandberger, 1856, a junior homonym of *Dentalium annulatum* Gmelin, 1791.
- † *annulopunctatum*, *Dentalium* (*Fustiaria*) Cossmann & Pissarro, 1902: 180, pl. 31, fig. 39. Eocene. Fresville, Cotentin, France.
- † *annulostriatum*, *Dentalium* Meek & Worthen, 1871: 45. Carboniferous. Danville, Illinois, USA. *annulosum*, see *anulosum*.
- † *anomalcostata*, *Dentalium* (*Entalis*) *taurostriata* "2" var. Sacco, 1897: 110, pl. 9, fig. 57 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Type material not mentioned by Ferrero Mortara *et al.* (1984: 308).
- † *anomalum*, *Dentalium* (*Entalina*) Cossmann & Peyrot, 1917: 171, 172, pl. 2, figs 19, 20. Miocene, Helvetian. Saint-Martin-de-Hinx, France.
- antarcticus*, *Cadulus dalli* var. Odhner, 1931: 5-7, pl. 1, figs 5-7, 9, 11, 13, 14; pl. 2, fig. 18-21, 24, 25. Recent. Graham Region, Swedish Antarctic Exp. stn 8, 64°05'S, 56°37'W, 360 m; stn 11, 65°19'S, 56°48'W, 400 m. Syntypes SMNH 4196 (*fide* Sandberg & Warén 1993: 122). Synonym of *Siphonodentalium dalli* (Pilsbry & Sharp, 1898) (*fide* Steiner & Linse 2000: 21-25). Antarctica. 130-695 m.
- † *antarctotubulus*, *Cadulus* (*Gadila*) Stilwell & Zinsmeister, 1992: 174, pl. 25, figs q, r. Lower Tertiary, La Meseta Formation. IPS locality 443, Seymour Island, Antarctic Peninsula. Holotype USNM Paleobiology 441875; paratypes USNM Paleobiology 441876, 441877.
- antillarum*, *Dentalium* d'Orbigny, 1853: 202, pl. 25, figs 10-13. Recent. Saint-Thomas [Virgin Islands]. Syntypes BMNH.10.4.467 (2). *Antalis antillaris* (d'Orbigny, 1853) (*fide* Henderson 1920: 44). Western Atlantic and Caribbean: Florida to Brazil. 1-300 m.
- † *antiquum*, *Dentalium* Goldfuss, 1841: 2, pl. 166, fig. 2. Devonian? Eifel Mountain, Germany.
- antiquum*, *Dentalium* Goldfuss, 1841. Not a scaphopod. See Other taxa described as Scaphopoda.
- antverpiense*, *Dentalium* Goddeeris, 1978: 70, 72. Miocene. Belgium. *Nomen nudum*.
- anulata*, *Dentalium entalis* var. Jeffreys, 1865: 192. Recent. British Islands. Type material not located. Synonym of *Antalis entalis* (Linnaeus, 1758).
- anulosum*, *Dentalium* Brazier, 1877: 58. Recent. Princess Charlotte Bay, Queensland, NE Australia, 13 fms [24 m]. Lectotype AMS C170759 (designated by Ponder & Stanbury 1972: 53) and 1 paralectotype. Junior synonym of *Episiphon subtorquatum* (Fischer, 1871) (*fide* Scarabino 1995: 286). Remarks: Lamprell & Healy (1998: 104) considered *anulosum* to be a valid species of *Omniglypta*. *Dentalium annulosum* [Hedley 1901: 129] is an incorrect subsequent spelling.

- apenninica*, *Dentalium* (*Entalis*) cf. *acuta* “?” var. Sacco, 1897: 106, 107, pl. 9, figs 14-16 [as a *nomen nudum* in Sacco 1896: 97]. Oligocene. Dego, Piedmont Basin [Italy]. Lectotype MRSN BS.106.03.008 (designated by Bonci *et al.* 2000: 206, 207, pl. 1, fig. 4); paralectotypes MRSN BS.106.03.009, DSTRG 1173/Sa-II-S10 (1), DSTRG 2105/Sa-II-S48 (1). Junior synonym of *Antalis acuta* (Hébert, 1849) (*vide* Bonci *et al.* 2000: 206, 207, pl. 1, fig. 4).
- † *apicostatium*, *Dentalium* (*Antalis*) Vokes, 1939: 105, pl. 16, fig. 25. Eocene, Domengine Formation. UCMF locality 672, southern portion of the crest of Parson’s Peak, Coalina Quadrangle, California, USA. Holotype UCMF 15747.
- † *applanatum*, *Dentalium* Torley, 1908: 43. Devonian. Schlegdenhofes, near Iserlohn, Germany.
- applanatum*, *Dentalium* (*Bathoxiphus*) Colman, 1958: 145, fig. 12. Recent. 35 miles E of Sydney, 1463 m. Holotype AMS C22652; paratypes AMS C170645 (24). Junior homonym of *Dentalium applanatum* Torley, 1908. Replacement name: *Dentalium colmani* (Palmer, 1974b: 124). *Rhomboxiphus colmani* (Palmer, 1974) (*vide* Chistikov 1983: 183).
- aprinum*, *Dentalium* Linnaeus, 1767: 1263. [No references given]. Recent. Indian Ocean. Possible synonym LS 611. Junior synonyms: *Dentalium striatum* Born, 1778 *partim*; *Dentalium striatulum* Gmelin, 1791; *Dentalium lupinum* Röding, 1798 *partim*; *Dentalium caprinum* Anton, 1838 (*vide* Pilsbry & Sharp 1897: 3); *Dentalium interstriatum* Sowerby, 1860 (*vide* Habe 1964: 6, 7); *Dentalium aprinum incolor* Boissvain, 1906. *Dentalium aprinum* Linnaeus, 1767. Indo-Pacific: Madagascar to Philippines, New Caledonia and Australia. 5-123 m.
- † *aquensis*, *Gadila* Holzapfel, 1888: 179, pl. 20, fig. 8. Cretaceous. Near Vaals, Netherlands. *Cadulus aquensis* (Holzapfel, 1888) (*vide* Pilsbry & Sharp 1898: 255).
- † *arabicum*, *Dentalium* Cuvillier, 1933: 27, 28, pl. 3, fig. 8. Eocene, Bartonian. Gebel Giouch, east of Citadelle du Caire, Egypt.
- aratorum*, *Dentalium* Cooke, 1885: 273, 274. Recent. Gulf of Suez, 10-30 fms [18-55 m]. Syntypes UMZC I.100,740. Junior synonym of *Dentalium clavus* Cooke, 1885 (*vide* Boissvain 1906: 25, as *Dentalium macandrewi*). Remark: Singer (2003) removed *D. clavus* along with this species from the synonymy of *D. reevei* Fischer, 1871. *Dentalium anatorum* [Sharabati 1984: caption to pl. 1] is an incorrect subsequent spelling.
- † *aratum*, *Dentalium* Tate, 1887: 192, pl. 20, fig. 8. Miocene. River Murray Cliffs, near Morgan; Muddy Creek; Schnapper Point; Mulloowurtie yellow clays near Ardrossan, Australia. Holotype and 25 paratypes SAM T 256A. *Paradentalium aratum* (Tate, 1887) (*vide* Cotton & Ludbrook, 1938: 223, 224); *Dentalium* (*Dentalium*) *aratum* Tate, 1887 (*vide* Ludbrook 1959: 140).
- aratus*, *Cadulus* Hedley, 1899: 551, fig. 60. Recent. Funafuti Atoll, Pacific Ocean, 60 m. Syntypes AMS C5635, AMS C5636, AMS C5638. *Cadulus aratus* Hedley, 1899. Indo-Pacific: Madagascar to New Caledonia. 45-460 m.
- † *araucanum*, *Dentalium* Philippi, 1887a: 107, pl. 12, fig. 17; 1887b: 101, 102, pl. 12, fig. 17. Tertiary. Lebu, Chile.
- † *archiaci*, *Dentalium* Tournouër in de Boullé, 1873: 443 [17], 465 [39], pl. 6, fig. 10; 1876: 265, 275. Eocene, Auversien. Biarritz, France.
- † *arciformis*, *Dentalium* Conrad, 1846a: 212, pl. 1, fig. 3. Eocene. Claiborne, Alabama, USA. Junior synonym: *Dentalium leai* Meyer, 1885 (*vide* Pilsbry & Sharp 1898: 199).
- † *arcotinum*, *Dentalium* Forbes, 1846: 138, pl. 12, fig. 16. Cretaceous. Pondicherry, India. Remark: Tate (1889: 230) inadequately used this name for a species that was later described as *Fustiaria wollumbillaensis* (Etheridge in Jack & Etheridge, 1892) (*vide* Stilwell 1999: 220).
- † *arcticus*, *Cadulus* Dall, 1920: 30, pl. 5, fig. 8. Pliocene. USGS station 7070, Carter Creek, Camden Bay region, Arctic coast, Alaska, USA. Lectotype USNM Paleobiology 324322 (designated by MacNeil 1957: 107, pl. 12, fig. 27, as “holotype”); paralectotypes USNM Paleobiology. *Siphonodentalium* “?” *arcticus* (Dall, 1920) (*vide* Emerson 1957: 986). Remark: Emerson (1957: 986) also cited USNM 324322 as the “holotype” and referred to “paratypes unnumbered”.
- † *arctoides*, *Dentalium* Gugenberger, 1934: 42, 43, pl. 1, fig. 14 [*nomen nudum* in Gugenberger 1933a: 102; 1933b: 184]. Triassic. North of Launsdorf, Austria. *Prodentalium arctoides* (Gugenberger, 1934) (*vide* Stiller 2001: 630).
- † *arctum*, *Dentalium* Pichler, 1857: 695. Triassic. Tirol, Austria. *Prodentalium arctum* (Pichler, 1857) (*vide* Stiller 2001: 630).
- † *arcturus*, *Calstevenus* Yancey, 1973: 1063, 1064, text-fig. 1a-1f. Lower Permian, Arcturus Group, Riepetown Formation. Buck Mountain, south of the Ruby Range, White Pine County, eastern Nevada, USA. Holotype USNM Paleobiology 179130; paratypes USNM Paleobiology 179131-179135.
- arctus*, *Cadulus* (*Platyschides*) Henderson, 1920: 124, pl. 19, fig. 19. Recent. Off Cape San Blas, Florida, USBF stn 2404, 28°44’N, 85°16’W, 60 fms [109 m]. Holotype USNM 323955; paratypes USNM 151830, AMNH 148348 (1). *Gadila arctus* (Henderson, 1920). West Atlantic, Caribbean. 109 m.
- arcuata*, *Cadulus olivi* var. Locard, 1898: 134, pl. 7, figs 8, 9. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Polyschides olivi* (Scacchi, 1835).
- arcuata*, *Cadulus tumidosus* var. Locard, 1898: 143. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Cadulus tumidosus* Jeffreys, 1877.

- arcuata*, *Dentalium agile* var. Locard, 1898: 118. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Antalis agilis* (G. O. Sars, 1872).
- arcuatum*, *Dentalium* Gmelin, 1791: 3738 [citing Gualtieri 1742: t. 10. f. G]. Recent. Type locality not specified. Type material not located. Junior synonym of *Dentalium elephantinum* Linnaeus, 1758 (fide Pilsbry & Sharp 1897: 2).
- † *arenarium*, *Dentalium* Römer, 1855: 13, pl. 3, fig. 16. Paleozoic? Spirifer-Sandstone, near Schalke, Harz Mountains, Germany. Remark: Pilsbry & Sharp (1898: 230) suggested that this taxon "may prove to be a Pteropod, *Coleolus*".
- arenarium*, *Dentalium* (Episiphon) Suter, 1907: 214, 215, pl. 18, fig. 11. Recent. Port Pegasus, Stewart Island, New Zealand, 18 fms [33 m]. Holotype NZGS TM1219 (fide Boreham 1959: 75); paratypes SAM D 16001 (fide Zeidler & Macphail 1978: 83), ZMB 61911 (fide Kilias 1995: 172). Junior homonym of *Dentalium arenarium* Römer, 1855. Replacement name: *Dentalium suteri* Emerson, 1954: 185. *Antalis suteri* (Emerson, 1954) (fide Dell 1957: 573).
- arguticosta*, *Dentalium* Brugnone, 1878: 25. Tertiary. Monte Pellegrino and Ficarazzi, Italy. Junior synonym of *Antalis panorma* (Chenu, 1843) (fide Pilsbry & Sharp 1897: 54; Bellini 1909: 226).
- arietinum*, *Dentalium* Müller, 1776. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *armillatum*, *Dentalium* Toula, 1911: 496, pl. 31, fig. 8. Miocene. Gatun, Panama. Type material not located. Synonym: *Dentalium armillatum proterum* Woodring, 1973. Remark: Woodring (1973: 482) gave "Technische Hochschule, Vienna" as type depository; this could not be verified.
- † *armoricense*, *Siphonodentalium* Cossmann, 1902: 109 [159], pl. 10 [15], figs 26, 27. Eocene. Le Bois-Gouët and Arthon, France.
- arnaudi*, *Polyschides* Scarabino, 1995: 338, 339, figs 141, 147b, h. Recent. West Indian Ocean, MD 32 Réunion, stn DC 124, 20°52'S, 55°37'E, 40 m. Holotype MNHN; paratypes MNHN (13), USNM 890855 (1); NM (1). *Polyschides arnaudi* Scarabino, 1995. Indian Ocean: Madagascar, La Réunion. 40-980 m.
- arne*, *Cadulus* (*Platyschides*) *rushii* Henderson, 1920: 118, pl. 18, fig. 9. Recent. Off New Jersey [USA], USBF stn 2234, 30°09'N, 72°03'05"W, 810 fms [1478 m]. Holotype and 5 paratypes USNM 314729. Synonym of *Polyschides rushii* (Pilsbry & Sharp, 1898). Western Atlantic: New Jersey, Massachusetts. 360-1796 m.
- † *arnoensis*, *Polyschides* Maxwell, 1992: 188, pl. 9, figs e, f. Eocene. NZGS locality GS9480 and GS9508, Waihao River, near McCulloch's Bridge, South Canterbury, New Zealand. Holotype NZGS TM7232; paratypes NZGS (2).
- arnoldi*, *Laevidentalium* Lamprell & Healy, 1998: 111, 112, figs 112B, 113D, 116. Recent. Off Cairns, northern Queensland, Australia, 17°22'S, 146°48'E, 303 m. Holotype QM MO53676; paratypes QM MO17768 (189; northern Queensland, 17°21.77'S, 146°48.5'E, 303 m), QM MO17971 (27; 17°21.06'S, 147°02.5'E, northern Queensland, 303 m), QM MO17996 (15; 17°22'S, 146°48'E, 303 m), QM MO53677 (202; 17°22'S, 146°48'E, 303 m), QM MO17892 (45; 17°22'S, 146°48'E, 303 m), QM MO17996 (56; northern Queensland, 17°21.77'S, 146°48.5'E, 303 m), AMS C201737 (2 lots: 229; east of Innisfail, Queensland, 17°21.77'S, 146°48.52'E, 296-303 m; many; 17°22'S, 146°48'E, 303 m), AMS C310225 (2; east of North West Island, Queensland, 23°15.2'S, 152°24.1'E, 284 m). *Laevidentalium arnoldi* Lamprell & Healy, 1998. Indo-Pacific: NE Australia. 155-1224 m. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *L. arnoldi* Lamprell & Healy, 1998 vis-à-vis *L. houbrieki* Scarabino, 1995 requires further research.
- † *arrosus*, *Cadulus* (*Platyschides*) Woodring, 1925: 210, pl. 28, fig. 12. Miocene. Bowden, Jamaica. Holotype USNM Paleobiology 353078.
- artatus*, *Cadulus* Locard [ex Jeffrey MS], 1897a: 4 (*nomen nudum* in Jeffrey 1880: 317). Recent. Bay of Biscay, 1019-2651 m. Type material not located. *Cadulus artatus* Locard, 1897. Eastern Atlantic: Bay of Biscay to Angola. 1019-2651 m.
- asgum*, *Dentalium* de Gregorio, 1890: 171, pl. 17, figs 22-24. Eocene. Claiborne, Alabama. Type material lost (fide Palmer & Brann 1965: 369). Junior synonym of *Dentalium thalloides* Conrad, 1833 (fide Pilsbry & Sharp 1898: 218).
- † *ashiyaensis*, *Dentalium* Nagao, 1928: 88, 89, pl. 14, figs 38-44. Paleocene. Sakamizu beds (Sakamizu) and Wakita beds (Wakita), Shimago-mura, Ongagan, Chikuzen Province, Kyushu, Japan. Holotype and paratype Inst. Geol. Paleont., Tohoku Univ. (fide Hanzawa *et al.* 1961: 209).
- asperum*, *Dentalium* Michelotti, 1847: 144, pl. 5, figs 20, 21. Miocene. Tortone, Italy. Junior synonym of *Coccodentalium radula* (Gmelin, 1791) (fide Sacco 1897: 111, pl. 10, figs 7-15). *Dentalium aspersum* [Pilsbry & Sharp, 1898] is an incorrect subsequent spelling.
- asperum*, *Dentalium* Brunet, 1995: 53, pl. 5, fig. 7. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-080. Junior homonym of *Dentalium asperum* Michelotti, 1847. Replacement name: *Dentalium bruneti* n. nom.
- aspersum*, see *asperum* Michelotti, 1847.
- † *asphaltodes*, *Dentalium* (*Dentalium*) Beets, 1943: 307, pl. 29, figs 110-112. Upper Oligocene. Waisiu, Buton Island, Indonesia.
- † *astensis*, *Dentalium* (*Antale* "?") *dentale* var. Sacco, 1897: 104, pl. 8, figs 72, 73 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Astigiana, Italy.

- Syntypes MIGT BS.106.02.063, BS.106.02.064 (*fide* Ferrero Mortara *et al.* 1984: 306).
- † *astensis*, *Dentalium* (*Fustiaria*) *polita* var. Sacco, 1897: 112, pl. 10, fig. 24. Pliocene. Astigiano, Italy. Syntype MIGT BS.106.06.001 (*fide* Ferrero Mortara *et al.* 1984: 309).
- † *atava*, *Dentalium* (*Antale* “?”) *taurocostatum* var. Sacco, 1897: 102, pl. 8, fig. 56 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.02.048 (*fide* Ferrero Mortara *et al.* 1984: 304).
- † *atavus*, *Cadulus* (*Gadila*) Finlay & Marwick, 1937: 111, pl. 15, fig. 20. Eocene. Castle Hill Shaft, Matau, New Zealand. Holotype NZGS TM4815 (*fide* Keyes 1972: 97). *Cadulus* (s.l.) *atavus* Finlay & Marwick, 1937 (*fide* Beu & Maxwell 1990: 424).
- atlanticus*, *Cadulus* (*Gadila*) Henderson, 1920: 137-139, pl. 20, fig. 2. Recent. Off Nantucket Island [Massachusetts, USA], USBF stn 2682, 39°38'N, 70°22'W, 1004 fms [1830 m]. Holotype USNM 78238; paratypes USNM 78238 (3), MCZ 186815 (1), AMNH 148338 (2); USBF stn 2115, 843 fms [1538 m]. *Cadulus atlanticus* Henderson, 1920. Western Atlantic: Massachusetts to Delaware, USA. 780-1934 m.
- atlantideus*, *Cadulus* (*Dischides*) Nicklès, 1955: 100, 101, fig. 5. Recent. Guinea, *Atlantide* stn 44, 10°22'N, 16°22'W, 41-55 m. Syntypes ZMUC. *Dischides atlantideus* (Nicklès, 1955). Eastern Atlantic: Guinea, Mauritania. 9-55 m.
- atramentum*, *Dentalium* Schlüter, 1838: 39. “Fossil”. *Nomen nudum*.
- attenuata*, *Cadulus olivi* var. Locard, 1898: 134. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Polyschides olivi* (Scacchi, 1835).
- attenuata*, *Cadulus cyathus* var. Monterosato, 1875: 21 (1872: 27, as *Cadulus ovulum* var. *attenuata*, *nomen nudum*). Recent. Ficarazzi (Palermo) [Pleistocene of Italy] and Mediterranean. *Cadulus attenuatus* Monterosato, 1875 (*fide* Di Geronimo & La Perna 1997: 417, *in* remarks to *Cadulus ovulum*). Mediterranean. No bathymetric data. Remarks: introduced as a *nomen nudum*, the name is later referred to the Pliocene species *Cadulus cyathus* (De Cristofori & Jan, 1832), by Monterosato (1875: 21), Pilsbry & Sharp (1898: 158) and Caprotti (1968: 78). Here, the decision of Di Geronimo & La Perna (1997: 417) is favoured, keeping *C. attenuatus* separate from *C. cyathus* and *C. ovulum*.
- attenuata*, *Dentalium vulgare* var. Monterosato, 1884: 32. Recent. Mediterranean. *Nomen nudum*.
- † *attenuatum*, *Dentalium* Say, 1824: 154, 155, pl. 8, fig. 3. Miocene. Maryland, USA. Type material in BMNH Palaeontology (*fide* Newton 1902: 304). Junior synonym: *Dentalium duodecenaria* Conrad, 1862 (*fide* Pilsbry & Sharp 1898: 199).
- attenuatum*, *Dentalium* Sowerby, 1860: 99, pl. 225, fig. 40. Recent. Type locality not specified. Type material not located. Junior homonym of *Dentalium attenuatum* Say, 1824. *Episiphon attenuatum* (Sowerby, 1860) (*fide* Pilsbry & Sharp 1897: 120). Remark: Pilsbry & Sharp (1897: 120) stated that their *Dentalium* (*Episiphon*) *longum* may be a junior synonym of this species. Since the locality is unknown for both species, these names are of dubious value, and we prefer not to rename the junior homonym.
- † *aturensis*, *Pseudantalis* Cossmann & Peyrot, 1917: 179, 180, pl. 1, figs 67-72. Miocene. Burdigalian and Helvetian. Dax (Mainot), Saint-Paul-lès-Dax, and Salies-de-Béarn, Clermont (Landes), France.
- austinclarki*, *Cadulus* (*Platyschides*) Emerson, 1951: 24-26. Recent. Santa Inez Bay, Baja California [Mexico], W around Santa Inez Point, 6-12 feet [2-4 m]. Holotype USNM 602347; paratypes USNM 602347, SBMNH 35021. *Gadila austinclarki* (Emerson, 1951). Eastern Pacific: Mexico to Panama, Galapagos. 2-73 m.
- austini*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 31-33, figs 20E, 21E, 27. Recent. Cullen Beach, Darwin, Northern Territory, Australia. Holotype MV F75838; paratypes MV F67466 (18), MV F67474 (13; Cameron Beach, Shoal Bay, Darwin), MV F67469 (16), AMS C172543 (13; Dudley Point, on mud flats [Northern Territory, Australia]), AMS C172539 (5; east end Cullen Beach, Darwin [Australia]), AMS C172540 (14; Port Darwin [Australia]), AMS C380639 (2; Mindel Beach, Darwin [Australia], low tide), WAM 106-93 (1; off Eagle Bay [Australia], 32 m). *Dentalium austini* Lamprell & Healy, 1998. Indo-Pacific: northern Australia. 0-32 m.
- australasiae*, *Siphonodentalium* Boissevain, 1906: 64, pl. 6, fig. 68. Recent. Banda Sea, *Siboga* stn 211, 5°40.7'S, 120°45.5'E, 1158 m. Holotype ZMA 3.06.087. *Siphonodentalium australasiae* Boissevain, 1906. Known from type locality only.
- † *australis*, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898: 199. Miocene. Muddy Creek, Victoria, Australia. Holotype and 3 paratypes SAM T 250A. Replacement name for *Entalis annulatum* Tate, 1887, a junior secondary homonym of *Dentalium annulatum* Gmelin, 1791. *Laevidentalium australe* (Sharp & Pilsbry in Pilsbry & Sharp, 1898) (*fide* Ludbrook 1959: 145, pl. 2, fig. 1).
- badenense*, see *badense*.
- † *badense*, *Dentalium* Hörnes, 1856: 652, 653, pl. 50, fig. 30 [ex Partsch MS]. Miocene. Baden, Austria. Lectotype NMW 1846.37.534 (designated by Pavia 1991: 147); paralectotypes NMW (10). *Fissidentalium badense* (Hörnes, 1856) (*fide* Pavia 1991: 146-148, pl. 5, fig. 4, pl. 6, fig. 6). Remarks: Trautschold (1859: 313, pl. 6, figs 4a-4c) erroneously identified a species from the Oligocene around Aral Sea as *Dentalium badense* which was later named *Dentalium trautscholdi* Koenen, 1868. *Dentalium* (*Entalis*) *badenense* “Ptsch.” [Boettger, 1902: 181] is an incorrect subsequent spelling.

- † *bakoniense*, *Dentalium* Palmer, 1974b: 124. Miocene, Tortonian. Bakony, Hungary. Holotype Hungarian Geological Collection, M.279. Replacement name for *Dentalium annulatum* Kokay, 1966, a junior homonym of *Dentalium annulatum* Gmelin, 1791, *D. annulatum* Cristofori & Jan, 1832, *D. annulatum* Sandberger & Sandberger, 1856, and *D. annulatum* Meyer, 1886.
- balanoides*, *Dentalium* (*Laevidentalium*) Plate, 1908a: 357, pl. 30, figs 42-44. Recent. *Valdivia* stn 186, 03°22.1'S, 101°11.5'E, 903 m, West Sumatra. Holotype ZMB 61109. *Calliodentalium balanoides* (Plate, 1908) (*vide* Scarabino 1995: 275). Indo-Pacific: Indonesia, Philippines, New Caledonia. 187-903 m.
- bambusa*, *Anulidentalium* Chistikov, 1975: 19. Recent. Tonkin Bay, Vietnam, *Pelamida* stn 38, 72 m. Lectotype ZIN 1 (designated by Chistikov 1979: 113); paralectotype ZIN (*Pelamida* stn 2, 87 m). *Anulidentalium bambusa* Chistikov, 1975. Indo-Pacific: Vietnam, Philippines, Indonesia. 38-270 m.
- banale*, *Dentalium* (*Laevidentalium*) Boissevain, 1906: 55, pl. 6, fig. 30. Recent. Indonesia, Timor Sea, *Siboga* stn 300, 10°48.6'S, 123°23.1'E, 918 m. Lectotype ZMA 3.06.068 (designated by Lamprell & Healy 1998: 114); paralectotype ZMA 3.06.069 (1). *Laevidentalium banale* (Boissevain, 1906) (*vide* Habe & Kosuge 1964: 7). Indo-Pacific: Indonesia to West Australia. 0-918 m. Remarks: Scarabino (1995: 292) considered this species to be a junior synonym of *Laevidentalium leptosceles* (Watson, 1879), an opinion rejected by Lamprell & Healy (1998: 184). Ludbrook (1954: 105) mentioned a "holotype" but did not indicate which of the 2 specimens she referred to; thus, the lectotype selection by Lamprell & Healy (1998) is considered valid.
- bandata*, *Dentalia* Perry, 1811: caption to pl. 52. Type locality not specified. *Nomen dubium*. No information on type material.
- † *bandeli*, *Prodentalium* Engeser & Riedel, 1992: 43, 44, pl. 1, figs 1-3, text-fig. 1. Jurassic, Middle Liassic, Pliensbachian. Hoisdorf, Schleswig-Holstein, Germany. Holotype GPIMH 2516/1; paratype GPIMH 2516/2.
- † *bangtoupensis*, *Laevidentalium* Stiller, 2001: 620-623, figs 3, 5.1-5.4. Upper Anisian, Middle Triassic. Bangtoup, NNE of Qingyan, Guizhou Province, southwestern China. Holotype GPIM B6D-1.S1.Fbt-1; paratypes GPIM B6D-1.S1.Fbt-2, GPIM B6D-1.S1.Fbt-3, GPIM B6D-1.S1.F30:32-1, GPIM B6D-1.S1.Fbt-4.
- barbadensis*, *Cadulus* (*Cadulus*) *transitorius* Henderson, 1920: 144, pl. 19, fig. 7. Recent. Sandy Bay, Barbados, 100 fms [183 m]. Holotype USNM 95375. Junior synonym of *Cadulus transitorius* Henderson, 1920. Remarks: MCZ 7744 (*Blake*, off Barbados, 100 fms) was labeled by Henderson as being a "cotype" of *barbadensis*, but this specimen was not mentioned in the original description and is neither a syntype nor a paratype. Turner (1955: 318) cited this specimen as a "paratype" even though she recognized that it was not cited by Henderson.
- † *barquense*, *Dentalium* "?" Winchell, 1862: 425. Carboniferous, Huron Group. Pointe aux Barques, Michigan, USA. Remarks: Winchell (1865: 131), based upon examination of additional specimens, questioned whether this species might actually represent "corals with very large hollow axes".
- † *barremicum*, *Dentalium* Cossmann, 1916: 31, pl. 2, figs 4, 5. Cretaceous, Barremian. Gisement des Augustines, near Brouzet-les-Alais, Gard, France.
- barremicus*, *Dentalium* Sasonova, 1958: 131, 132, pl. 13, figs 1-3, pl. 14, fig. 2, pl. 15, fig. 2. Cretaceous, Barremian. River Kubre, near Volga River, Russia. Junior homonym of *Dentalium barremicum* Cossmann, 1916. Replacement name: *Dentalium kubraense* Palmer, 1974.
- bartletti*, *Dentalium* (*Antalis*) Henderson, 1920: 55, 56, pl. 8, figs 2, 7. Recent. Off Frederickstadt, St Cruz, *Blake* stn 130, 451 fms [825 m]. Holotype USNM 224986; paratypes USNM 93121 (1; off Cape Fear, North Carolina, USBF stn 2616, 17 fms [31 m]), USNM 93840 (9; between Mississippi Delta and Cedar Keys, USBF stn 2398, 227 fms [141 m]), USNM 94081 (1; Off Arrowsmith Bank, Yucatan, USBF stn 2355, 399 fms [728 m]), USNM 95368 (3; NW of Tortugas, *Blake* stn 44, 539 fms [984 m]), USNM 95369 (1; Martinique, *Blake* stn 211, 357 fms [652 m]), USNM 95370 (1; off Morro Light, Habana, *Blake* stn 100, 400 fms [730 m]), USNM 95371 (11; St Vincent, West Indies, *Blake* stn 230, 464 fms [847 m]), USNM 314449, 314450 (2; off Fowey Light, Florida, *Eolis* stn 353, 85 fms [155 m]), USNM 323776 (1; off Cape San Blas, Florida, USBF stn 2399, 196 fms [358 m]), USNM 330524 (1; off Cape Florida, Florida, USBF stn 2644, 193 fms [352 m]), AMNH 148300, 148301 (2; off St Vincent Island, *Blake* stn 230, 13°13'20"N, 61°18'45"W, 464 fms [847 m]). *Antalis bartletti* (Henderson, 1920). Western Atlantic and Caribbean. 30-1000 m.
- bartonense*, *Dentalium* Palmer, 1974b: 125. Eocene. London, England, Great Britain. Replacement name for *Dentalium striatum* J. Sowerby, 1814, a junior homonym of *Dentalium striatum* Born, 1778. Junior objective synonym of *Dentalium acuticostatum* Deshayes, 1825 (n. syn.). Remarks: Palmer (1974b: 125) proposed *Dentalium bartonense* as a replacement name, apparently being unaware that Deshayes had already renamed this species. Used as a valid species of *Antalis* by Le Renard (1995: 175) and Le Renard & Pacaud (1995: 86), who were unaware that it was an objective junior synonym.
- † *basteroti*, *Antalis* Cossmann & Peyrot, 1917: 178, 179, pl. 1, figs 42-45. Miocene, Burdigalian and

- Aquitanian. Mérignac (le Pontic), Dax (Maïnot), Saint-Médard (La Fontaine), Cestas, Saint-Paul-lès-Dax, Léognan (Thibaudeau), Canéjean, Martillac (Pas-de-Barreau), and Pessac (Lorient), France.
- † *batheri*, *Dentalium* Finlay, 1927: 521. Carboniferous. New Zealand. Replacement name for *Dentalium huttoni* Bather, 1905, a junior homonym of *Dentalium huttoni* Kirk, 1880.
- beachportensis*, *Tesseracme* Cotton & Ludbrook, 1938. Not a scaphopod. See Other taxa described as Scaphopoda.
- bednalli*, *Dentalium* Pilsbry & Sharp, 1898: 248. Recent. St Vincent's Gulf, South Australia. Holotype ANSP 72554. Junior synonym of *Paradentalium intercalatum* (Gould, 1859) (*vide* Verco 1904: 135).
- beecheyi*, *Pulsellum* Lamprell & Healy, 1998: 146, 147, figs 150C, 151C, D, 153. Recent. 200 km North of Croker Island, Northern Territory, Australia, 9°14'S, 132°54'E, 145 m. Holotype AMS C174890; paratypes AMS C172289 (6), AMS C172288 (2; 17°34'S, 120°22'E, c. 212 km NW of Roebuck Bay, Western Australia, 188 m), AMS C172293 (7; 9°18'S, 133°38'E, 230 km N of Goulburn Island, Northern Territory, 135 m), AMS C172296 (4; 9°24'S, 133°02'E, 180 km N of Croker Island, Northern Territory, 125 m). *Pulsellum beecheyi* Lamprell & Healy, 1998. Indo-Pacific: northern Australia. 18-256 m. Remark: the latitude of the type locality in the original description, "29°14'S," is apparently an error for 9°14'S.
- belcheri*, *Cadulus* (*Dischides*) Pilsbry & Sharp, 1898: 145, pl. 26, figs 84-87. Recent. North Pacific. Holotype USNM 107703. *Dischides belcheri* Pilsbry & Sharp, 1898. North Pacific: Japan. 0-50 m.
- belcheri*, *Dentalium* Sowerby, 1860: 101, pl. 224, figs 28, 29. Recent. East Indian Archipelago [Indonesia]. Lectotype BMNH 1996077/1 (designated by Scarabino 1995: 201, "[...] the largest (25 mm) of the 3 syntypes BMNH"); paralectotypes BMNH 1996077/2 + 3. Junior synonym of *Dentalium variabile* Deshayes, 1825 (*vide* Habe 1963: 258). Remark: Tomlin (1931: 337) placed *Dentalium belcheri* in the synonymy of *Dentalium strigatum* Gould, 1859.
- belcheri*, *Prodentulum* Nassichuk & Hodgkinson, 1976. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *bellulus*, *Cadulus* Clark, 1895: 5; 1896: 72, pl. 14, fig. 6. Eocene. Woodstock, Hanoverville, Virginia, USA.
- † *benoisti*, *Gadila* Cossmann & Peyrot, 1917: 182, 183, pl. 2, figs 1-3. Miocene. Giraudeau, France. Replacement name for *Gadus ventricosus* Benoist, 1873, a junior homonym of *Cadulus ventricosus* (Bronn, 1828). Junior synonym: *Gadila benoisti houtalensis* (Goddeeris, 1977) (*vide* Janssen 1984: 117, 118, pl. 42, figs 18a, 18b).
- berryi*, *Dentalium* Smith & Gordon, 1948: 216, 217, pl. 3, figs 1, 4. Recent. Monterey Bay; Monterey Co., Humpback Reef [California], 40 fms [73 m]. Holotype CAS 065592; paratypes SBMNH 35020, CAS 065593 (1), CAS 065594 (2), CAS 065595 (1; Monterey County, off Cabrillo Point, near bell buoy, 20 fms [37 m]), ANSP 185227 (1; near bell buoy, Pacific Grove, Monterey Bay, California, 36°36'N, 121°56'W). *Antalis berryi* (Smith & Gordon, 1948) (*vide* Emerson in Turgeon 1988: 50). Eastern Pacific, California. 37-73 m. Remark: Keen (1971: 884) listed *Dentalium* (*Antalis*) *pretiosum berryi* as a southern subspecies of *Antalis pretiosa*. This indicates a possible synonymy of *A. berryi* (Smith & Gordon, 1948) with *D. indianorum* Carpenter, 1864 and *A. denseliratum* Pilsbry & Sharp, 1898, both names for the southern variety or subspecies of *A. pretiosa*. Further research is required to decide whether or not *A. denseliratum* is a senior synonym of *A. berryi*.
- bicarinarium*, *Dentalium* Deshayes, 1825: 364, pl. 18, figs 16, 17. Eocene. Near Paris, France. Junior synonym of *Dentalium duplex* DeFrance, 1819 (*vide* Deshayes 1864: 203).
- bicarinarium*, *Dentalium* Wanner, 1902: 124, pl. 18, figs 9, 10. Cretaceous. North of Oasis Dachel, Libya. Junior homonym of *Dentalium bicarinatum* Deshayes, 1825. Replacement name: *Dentalium wanneri* n. nom. Remark: Wanner's description of a well preserved specimen is detailed and referred to by Quaas (1902: 234). We, therefore, decided to rename this junior homonym.
- bicostale*, *Dentalium* Ryckholt, 1851: 71, pl. 2, figs 43, 44. Cretaceous, Neocomian. Tournay, Belgium. Tentative junior synonym of *Dentalium decussatum* J. Sowerby, 1814 (*vide* Ryckholt 1851).
- bifissum*, *Dentalium* S. Wood, 1848: 190, pl. 20, fig. 3. Coralline Crag (Pliocene), Sutton, England. Type material not located. Junior synonym of *Dischides politus* (S. Wood, 1842) (*vide* Pilsbry & Sharp 1897: 144).
- † *bifissuratum*, *Dentalium* Deshayes, 1850: 36, pl. 61, figs 11, 12, 14. Fossil. Locality not specified. Remark: Pilsbry & Sharp (1898: 235) erroneously dated this name to "1864" and they therefore listed it as a junior synonym of *Dischides bilabiatus* (Deshayes, 1861).
- † *bifrons*, *Dentalium* "(?)" Tate, 1887: 192, 193, pl. 20, fig. 5. Tertiary (Miocene-Pliocene). Upper beds at Muddy Creek, Hamilton, Victoria, Australia. Holotype and 3 paratypes SAM T 255. *Dentalium* (*Fissidentalium*) *bifrons* Tate, 1887 (*vide* Tate 1899: 261); *Dentalium* (*Antalis*) *bifrons* Tate, 1887 (*vide* Ludbrook 1959: 142, 143, pl. 2, fig. 2).
- † *bilabiatus*, *Gadus* Deshayes, 1861: 219, pl. 3, figs 22-24. Eocene. Paris Basin (Houdan, Grignon, Hérouval, Montjavoult, Rozières and Saint-Sulpice), France. *Dischides bilabiatus* (Deshayes, 1861) (*vide* Pilsbry & Sharp 1898: 235; Le Renard 1995: 175; Le Renard & Pacaud 1995: 86). Remark: Pilsbry & Sharp (1898: 235) erroneously

- listed *Dentalium bifissuratum* Deshayes, "1864" as a junior synonym of this species; in fact, *D. bifissuratum* was described in 1850, not 1864.
- billingsi*, *Salterella* Safford, 1869. Not a scaphopod. See Other taxa described as Scaphopoda.
- bimixtum*, *Dentalium* de Gregorio, 1890: 172, pl. 17, figs 32-34. Eocene. Claiborne, Alabama. Junior synonym of *Dentalium thalloides* Conrad, 1833 (*vide* Pilsbry & Sharp 1898: 218).
- † *binkhorsti*, *Dentalium* Pilsbry & Sharp, 1898: 220. Cretaceous. Belgium. Replacement name for *Dentalium nysti* Van den Binkhorst, 1861, a junior homonym of *Dentalium nysti* d'Orbigny, 1852.
- † *bironense*, *Dentalium* Douvillé, 1929: 374, 375, pl. 32, fig. 1. Eocene. Biron-Marnière, France.
- bisexangulatum*, *Dentalium* Sowerby, 1860: 102, pl. 223, fig. 8. Recent. Java. Lectotype BMNH 1993009/1 (designated by Lamprell & Healy 1998: 65); paralectotypes BMNH 1993009/2-3 (2). *Dentalium bisexangulatum* Sowerby, 1860. Indo-Pacific: Red Sea, East Africa to Australia, Java, Philippines, Japan. 1-720 m.
- bisinuatum*, *Dentalium* André, 1896: 397, pl. 17, figs 9a-c. Recent. Amboyna [Ambon, Indonesia]. Holotype MHNG 1155/40 (*ex* M3/35). *Laevidentalium bisinuatum* (André, 1896) (*vide* Pilsbry & Sharp 1897: 108). Known from the type locality only. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *D. bisinuatum* vis-à-vis *Laevidentalium eburneum* (Linnaeus, 1767) requires further research.
- bisiphonata*, *Fustiaria* Newton, 1891: 284 [ex Edwards MS]. Lower Eocene. London Clay, Haverstock Hill, England, Great Britain. *Nomen nudum*. Remark: Pilsbry & Sharp (1898: 200) stated that "as the species is not mentioned by Newton & Harris [1894] in their later revision of British Eocene Scaphopods, it is probably either not valid or based on material unsuitable for characterization".
- † *bisissura*, *Cadulus* "(?)" Garvie, 1996: 46, 47, pl. 9, figs 3-5. Eocene, Lower Claibornian, Reklaw Formation, Marquez Member. Locality 4, Bluff on Ridge Creek, Texas, USA. Holotype PRI 30314; paratype PRI 30315.
- † *bitubatum*, *Dentalium* Meyer, 1886: 64, pl. 3, fig. 1. Eocene. Jackson, Mississippi, USA. Lectotype USNM Paleobiology 638811 (as "holotype" in Palmer & Brann 1965: 366).
- † *blandum*, *Dentalium* de Gregorio, 1890: 172, pl. 17, figs 26-31. Eocene. Claiborne, Alabama. Type material lost (*vide* Palmer & Brann 1965: 366).
- † *blountense*, *Cadulus* Mansfield, 1935: 46, 47, pl. 5, fig. 10. Upper Middle Miocene. Locality 12046, Vaughan Creek, Walton County, Florida, USA. Holotype USNM Paleobiology 373159.
- † *bocasensis*, *Dentalium* (*Dentalium*) Olsson, 1922: 338 [166], pl. 15, figs 2, 3. Miocene, Gatun Stage. Bocas del Toro, Costa Rica. Syntypes PRI 21116, PRI 21117 (*vide* Brann & Kent 1960: 317).
- † *boettgeri*, *Dentalium* Noetling, 1901: 251, pl. 17, fig. 4. Miocene. Kama, Burma.
- † *boggsi*, *Dentalium* Berry, 1926: 19, 20, figs 1, 2. Eocene, Saman shale. Negritos, Peru.
- boissevainae*, *Antalis* Palmer, 1974b: 124. Recent. Indonesia, *Siboga* stn 159, 00°59.1'S, 129°48.8'E, 411 m. Holotype (of *indicum* Boissevain) ZMA 3.06.051. Replacement name for *Dentalium entalis* var. *indicum* Boissevain, 1906, a junior homonym of *Dentalium indicum* Chenu, 1843. Junior synonym of *Antalis tibana* (Nomura, 1940) (*vide* Habe 1961: 105, but not Habe 1963: 262). Remark: Scarabino (1995: 231) unnecessarily designated the single specimen as lectotype.
- boissevaini*, *Cadulus* (*Gadila*) Jaeckel, 1932: 311, text-fig. 8. Recent. Off Zanzibar, Africa, *Valdivia* stn 251, 1°40.6'S, 41°47.1'E, 693 m. Lectotype ZMB 75359a (designated by Kilias 1995: 172); paralectotypes ZMB 75359b, ZMB 75360. Junior synonym: *Cadulus* (*Gadila*) *reesi* Ludbrook, 1954 (*vide* Scarabino 1995: 358). *Gadila boissevainae* (Jaeckel, 1932) (*vide* Scarabino 1995: 358). Indian Ocean, Africa. 274-1280 m. Remark: since Maria Boissevain was a woman, the gender of the genitive of the species name was emended by Scarabino (1995: 358).
- bonei*, see *bouei*.
- booceras*, *Cadulus* Tomlin, 1926: 298, pl. 16, fig. 11. Recent. Durban Bay, South Africa; Canggella (*vide* Barnard 1963b: 352). Syntypes BMNH 1926.12.6.3, NMW. *Siphonodentalium booceras* (Tomlin, 1926) (*vide* Scarabino 1995: 333). Indian Ocean: South Africa. 89-183 m.
- † *boonei*, *Dentalium* Cossmann, 1924: 22, 23, pl. 2, figs 13-16, 25, 26, pl. 7, fig. 24. Jurassic, Callovian. Doux, France.
- borcei*, see *bouei*.
- bordaensis*, *Cadulus* (*Gadila*) Cotton & Godfrey, 1940: 340, fig. 362. Recent. Off Cape Borda, Kangaroo Island, South Australia, 55 fms [100 m]. Holotype SAM D 13761. *Gadila bordaensis* (Cotton & Godfrey, 1940) (*vide* Lamprell & Healy 1998: 153). Indian Ocean: South Australia. 50-600 m.
- bordaensis*, *Dentalium* (*Episiphon*) Cotton & Ludbrook, 1938: 220, 221, pl. 12, fig. 3. Recent. Cape Borda, Kangaroo Island, South Australia, 60 fms [110 m]. Holotype SAM D 13340. *Episiphon bordaensis* (Cotton & Ludbrook, 1938) (*vide* Lamprell & Healy 1998: 132). Indian Ocean: Australia. 75-400 m.
- † *boreale*, *Dentalium* Böhm, 1904: 53, 54, pl. 6, figs 17, 33, 36. Upper Triassic. Mount Misery, Bear Island, Spitsbergen, Arctic Sea.
- † *borealis*, *Dentalium* (*Entalis*) *badense* var. Kautsky, 1925: 53, 54, pl. 5, fig. 12. Miocene. Hemmoor and Basbeck, Lower Saxony, Germany.

- † *borelliana*, *Gadilina* Pavia, 1991: 131, 132, pl. 7, figs 4, 5, 9, 10, pl. 8, figs 5, 6. Upper Miocene. Borelli, near Turin, Italy. Holotype and 192 paratypes MIGT BS.D.12.1.
- † *bothrum*, *Dentalium* (*Dentalium*) Woodring, 1973: 482, 483, pl. 75, figs 14, 23. Middle Miocene, upper part of Gatun Formation. USGS locality 8413, upper edge of Chilas village, Río Indios, Colón Province, Panama. Holotype USNM Paleobiology 646730.
- boucheti*, *Antalis* Scarabino, 1995: 234, 235, figs 42, 45h, 45j, 73g. Recent. Loyalty Islands, RV *Alis*, MUSORSTOM 6 stn DW 428, 20°24'S, 166°13'E, 420 m. Holotype MNHN; paratypes MNHN (12; MUSORSTOM 6: 1 from stn CC175; 1 from stn DW 397; 1 from stn DW 406, 2 from stn DW 411; 3 from stn DW 428; 2 from DW 446; 1 from stn DW 451; 1 from stn 481), AMS C201723 (1; stn DW 428), NMNZ M268969 (1; stn DW 428), USNM 890859 (1; stn DW 397). *Antalis boucheti* Scarabino, 1995. Indo-Pacific: Philippines to New Caledonia. 360-842 m.
- boucheti*, *Cadulus* (*Gadila*) Nicklès, 1979: 64, 65, fig. 23. Recent. SE of Luanda, Angola, WALDA stn CY 15, 10°30.3'S, 11°55'E, 1756 m. Holotype MNHN. *Gadila boucheti* (Nicklès, 1979). Known from type locality only.
- † *bouei*, *Dentalium* Deshayes, 1825: 355, 356, pl. 18, fig. 8. Tertiary. Baden, near Vienna, Austria. Junior synonym: *Dentalium intermedium* Hörnes, 1856 (fide Pilsbry & Sharp 1898: 200). *Antalis bouei* (Deshayes, 1825) (fide Pavia 1991: 114). *Dentalium bonei* [Arduini 1895: 195] and *Dentalium borcei* [Michelotti, 1861: 136] are incorrect subsequent spellings.
- † *bouryi*, *Siphonodentalium* (*Dischides*) Cossmann, 1888: 13, pl. 1, figs 6, 7. Eocene. Parnes and Montainville, France. *Dischides bouryi* (Cossmann, 1888) (fide Pilsbry & Sharp 1898: 235; fide Le Renard 1995: 175; Le Renard & Pacaud 1995: 86).
- † *boussaci*, *Dentalium* Emerson, 1954: 183. Oligocene, Priabonian. Faudon, Allons and Martinets, France. Replacement name for *Dentalium martini* Boussac, 1911, a junior homonym of *Dentalium martini* Whitfield, 1882 (Polychaeta).
- brazieri*, *Cadulus* Finlay, 1927. Not a scaphopod. See Other taxa described as Scaphopoda.
- braziliensis*, *Cadulus* (*Platyschides*) Henderson, 1920: 124, 125, pl. 19, fig. 16. Recent. Off Rio de Janeiro, USBF stn 2762, 23°08'S, 41°34'W, 59 fms [108 m]. Holotype and paratype USNM 96113. *Gadila braziliensis* (Henderson, 1920). Western Atlantic: Brazil. 23-197 m.
- † *brazosensis*, *Cadulus* (*Gadila*) Hodgkinson, 1974: 11, 12, text-figs 8p, q; pl. 1, figs 7-10, pl. 2, fig. 7. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Little Brazos River, Brazos County, Texas, USA. Holotype USNM Paleobiology 180431; paratypes USNM Paleobiology 180448, PRI 29222, ANSP 31500 (all from Scott's locality MS-2-N), USNM Paleobiology 180432-180434 (locality MS-2A-S).
- † *breve*, *Dentalium* Deshayes, 1861: 201, 202, pl. 1, figs 7, 8. Eocene. Paris Basin (Châlons-sur-Vesles, Jonchery), France. *Fustiaria brevis* (Deshayes, 1861) (fide Newton 1891: 284). Remark: a valid species of *Dentalium* (*Entaliopsis*) (fide Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- brevicornu*, *Dentalium* (*Compressidens*) Sharp & Pilsbry in Pilsbry & Sharp, 1897: 125, pl. 22, figs 53-55. Recent. Near Galapagos Islands, USFC stn 2808, 0°36'30"S, 89°19'W, 634 fms [1159 m]. Syntypes USNM 122809 (1), 600415 (1); LACM 1757 (1, as paratype), SBMNH 35013 (1). *Compressidens brevicornu* (Sharp & Pilsbry in Pilsbry & Sharp, 1897). Eastern Pacific, Galapagos. 1159-1819 m.
- † *brevifissum*, *Dentalium* Deshayes, 1825: 366, pl. 17, figs 13, 14. [Fossil]. Angers, Touraine, France. *Dentalium brevissimum* [Anton, 1838: 25] is an incorrect subsequent spelling (fide Pilsbry & Sharp 1898: 200).
- brevifissum*, *Dentalium* – Galeotti 1837: 150. Tertiary. Jette, Belgium. Junior homonym of *Dentalium brevifissum* Deshayes, 1825. Remarks: Pilsbry & Sharp (1898: 201) stated that *Dentalium butini* [sic] Nyst is a "new name" for Galeotti's species. However, Nyst did not cite Galeotti's work, and *D. burtini* Nyst in d'Omalius-d'Hallo, 1853 is a *nomen nudum*. We prefer not to rename this species until its status is clarified.
- brevifissum*, *Dentalium* Brugnone, 1876: 20, 21, fig. 30. Tertiary. Monte Ficarazzi, Italy. Junior homonym of *Dentalium brevifissum* Deshayes, 1825. Replacement name: *Dentalium brugnonei* n. nom.
- † *breviforme*, *Dentalium* Mayer-Eymar, 1904: 312 [description]; 1903: 283 [name only]. Tertiary. Siout Mountain, Egypt.
- † *brevis*, *Gadus* Deshayes, 1861: 219, 220, pl. 3, figs 25-28. Eocene. Paris Basin (Aizy and Hérouval), France. Remark: a valid species of *Dischides* (fide Le Renard 1995: 175; Le Renard & Pacaud 1995: 86).
- brevissimum*, see *Dentalium brevifissum* Deshayes, 1825.
- † *brongniarti*, *Dentalium* Deshayes, 1861: 212, pl. 2, figs 20, 21. Eocene. Paris Basin (Montmirel, Parnes, Damery, Brasles, Mouch, Vaudancourt, Fercourt and Saint-Félix), France. Remark: a valid species of *Dentalium* (*Entaliopsis*) (fide Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- browni*, *Dentalium* Hisinger, 1837. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *brugnonei*, *Dentalium* n. nom. Tertiary. Monte Ficarazzi, Italy. Replacement name for *Dentalium brevifissum* Brugnone, 1876 non *Dentalium brevifissum* Deshayes, 1825.

- † *bruneti*, *Dentalium* n. nom. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-080. Replacement name for *Dentalium asperum* Brunet, 1995 non *Dentalium asperum* Michelotti, 1847.
- † *bruscasensis*, *Cadulus* (*Gadila*) Weisbord, 1964: 130, 131, pl. 18, figs 15, 16. Pliocene, Playa Grande Formation. Station W-26, Quebrada Las Bruscas, Venezuela. Holotype PRI 26897.
- brycei*, *Gadila* Lamprell & Healy, 1998: 155, 156, figs 155H, 156G, 164, 166A-C. Recent. NNW of Dampier, Western Australia, 19°34'S, 116°08'E, 110 m. Holotype WAM 237/94; paratypes WAM 64-93 (7; NNW of Dampier, 19°34'S, 116°08'E, 110 m), WAM 238/94 (10; Exmouth Gulf [Western Australia]), AMS C311959 (1; Monkey Mia, Shark Bay [Western Australia], 25°48'S, 113°43'E), AMS C173593 (1; 19°00.8'S, 118°01.3'E, 133 km NNW of Port Hedland, 112 m), AMS C173754 (5; 220 km NW of Roebuck Bay, 17°34'S, 120°22'E, 188 m), MV 69582 (2; 19°05'S, 117°26'E, North West Shelf, between Port Hedland and Dampier, 122 m). *Gadila brycei* Lamprell & Healy, 1998. Indian Ocean: Western Australia. 40-330 m.
- buccinulum*, *Dentalium* Gould, 1859: 166. Recent. Kagosima [Japan]. Lectotype USNM 24160 (designated by Johnson, 1964: 48; as "holotype"); paralectotypes MCZ 39073 (1), MCZ 169062 (1). Junior synonym: *Dentalium motidukii* Otuka, 1935 (*vide* Habe 1964: 25). *Dentalium buccinulum* Gould, 1859. Indo-Pacific: Japan, China. 0-50 m.
- bulbosum*, *Dentalium* Bronn, 1831. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *burdigalinum*, *Dentalium* Mayer, 1864: 357, pl. 14, fig. 4. Miocene. Near Bordeaux, Dax and Saucats, France. *Dentalium* (*Laevidentalium*) *burdigalinum* Mayer, 1864 (*vide* Cossmann & Peyrot 1917: 171, pl. 1, figs 53, 58, 59).
- † *buricum*, *Dentalium* (*Fissidentalium*) Olsson, 1942: 233, 234 [81, 82], pl. 6, figs 3-6, 9. Pleistocene. Tuffaceous shales, west side of Burica Peninsula, Costa Rica. Holotype PRI 4071; paratypes PRI 4072 (4) (*vide* Brann & Kent 1960: 317).
- † *burnsii*, *Cadulus floridanus* var. Dall, 1892: 446. Miocene. Alum Bluff, Appalachicola River, Florida, USA. Syntypes USNM Paleobiology 112758 (6). Synonym of *Cadulus floridanus* Dall, 1892.
- burtini*, *Dentalium* Nyst in d'Omalius-d'Hallo, 1853: 382. Tertiary. Belgium. *Nomen nudum*. Remarks: Pilsbry & Sharp (1898: 201) stated that this species was a "new name for *Dentalium brevifissum* Galeotti, 1837 not of Deshayes, 1825". However, Nyst did not mention Galeotti's species. Furthermore, we have not found any subsequent validation of Nyst's name. Bellini (1909: 235) listed this name as one of 12 species of "*Dentalium*" that were not scaphopods (i.e. Polychaeta), but Bellini did not cite any references for this transfer of Nyst's *nomen nudum* to the Polychaeta. *Dentalium burtini* [Pilsbry & Sharp, 1898: 201] is an incorrect subsequent spelling.
- burtonae*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 33, 34, figs 20F, 21F, 28. Recent. Roebuck Bay, Broome, Western Australia; 18°03'S, 122°17'E. Holotype AMS C173327; paratypes AMS C174897 (1), AMS C307828 (1; Lady Musgrave Island, Bunker Group, Queensland, dredged in lagoon), AMS C174526 (11; 17°58'S, 122°14'E, Broome Township, Western Australia), AMS C173297 (16; 18°06'S, 122°20'E, Roebuck Bay, Broome, Western Australia, 1-3 m). *Dentalium burtonae* Lamprell & Healy, 1998. Indo-Pacific: Australia. 0-32 m.
- bushi*, *Siphonodentalium* (*Pulsellum*) Henderson, 1920: 94, pl. 16, fig. 6. Recent. Off Barnegat Bay, New Jersey [USA], *Albatross* USBF stn 2710, 40°06'N, 68°01'30"W, 984 fms [1794 m]. Holotype USNM 76723; paratypes USNM 76723 (4), MCZ 186822. *Pulsellum bushi* (Henderson, 1920). Western Atlantic: New England Banks to Cape Hatteras (North Carolina). 582-1796 m.
- bushii*, *Cadulus* "carolinensis var.?" Dall, 1889: 430. Recent. Barbados, 100 fms [183 m]. Lectotype MCZ 7745 (designated by Henderson 1920: 126); paralectotypes USNM 95376 (as "holotype" in Turner 1955: 318, in error). *Gadila bushii* (Dall, 1889) (*vide* Pilsbry & Sharp 1898: 153). Western Atlantic: Caribbean. 64-360 m.
- butini*, see *burtini*.
- † *byorituense*, *Dentalium* (*Fissidentalium*) Nomura, 1935: 90, 91 [38, 39], pl. 6 [1], figs 1a-1c. Tertiary. Hakusyaton, Wangwa, Taikwa, Zyo-tusyowan, Kokwan, Sankwako, Sipo, and Bosiho, Taiwan.
- † *caduloide*, *Dentalium* Dall, 1892: 442. Miocene. St Mary's River, Maryland, USA. Syntypes USNM Paleobiology 112745 (numerous). Remark: Schuchert *et al.* (1905: 219) cited USNM 112745 as the "holotype" but did not specify which syntype was to be the holotype, so this does not constitute a valid lectotype designation.
- caesura*, *Dentalium* (*Pseudantalis*) Colman, 1958: 145, fig. 11. Recent. Off Woollongong, New South Wales, Australia, 100 fms [183 m]. Holotype AMS C62230; paratype AMS C62229. *Fustiaria caesura* (Colman, 1958) (*vide* Scarabino 1995: 279; Lamprell & Healy 1998: 102). Indo-Pacific: Philippines to eastern Australia and New Caledonia. 60-399 m.
- † *calabrum*, *Dentalium* O. G. Costa, 1851: 35, pl. 3, fig. 4. Type locality not specified [Italy?]. Type material not located. Remark: although not explicitly stated in the original description, this is not considered a Recent species, following the opinion of Pilsbry & Sharp (1898: 201) listing *calabrum* in the fossil section, as "? Pliocene, Calabria".
- calabrum*, *Dentalium* (*Antalis*) Crema, 1910: 68-70, text-figs 1-4 [ex Monterosato MS]. Pliocene-

- Pleistocene. Valle dei Molini near Monteleone and Vallone delli Mancini near S. Vincenzo la Costa, Italy. Junior synonym of *Antalis agilis* (G. O. Sars, 1872) (*vide* CLEMAM entry No. 24572). Junior homonym of *Dentalium calabrum* O. G. Costa, 1851. The synonymy with *Antalis agilis* makes it unnecessary to introduce a replacement name.
- † *calafium*, *Dentalium* (*Laevidentalium*) Vokes, 1939: 105, pl. 16, figs 30, 31. Eocene, Domengue Formation. UCMP locality A-1027, Valdes Ranch, Silver Creek, Priest Valley Quadrangle, California, USA. Lectotype UCMP 15750 (designated by Squires 1984: 16); paralectotype UCMP 15751 (UCMP locality A-1003, Pine Canyon, Mount Diablo, California, USA).
- calamus*, *Dentalium* Dall, 1889: 421. Recent. Turtle Harbor, Florida, 4 fms [7 m]. Lectotype USNM 68117 (designated by Henderson 1920: 72); paralectotypes USNM 887456. *Graptacme calamus* (Dall, 1889) (*vide* Pilsbry & Sharp 1897: 97). Western Atlantic: Cape Lookout (North Carolina) to Brazil and Caribbean. 0-124 m.
- caledonicum*, *Dentalium* Scarabino, 1995: 209, figs 17, 28a, 71c. Recent. Southern New Caledonia, RV *Coriolis*, CHALCAL 2, stn DW74, 24°40'S, 168°38'E, 650 m. Holotype MNHN and paratypes (1 from stn DW 73; 1 from stn DW 75). *Dentalium caledonicum* Scarabino, 1995. Indo-Pacific: New Caledonia. 573-650 m.
- † *californicum*, *Dentalium* Stanton, 1895: 62, 63, pl. 13, fig. 3. Cretaceous. Upper part of the Knoxville Beds, Shelton's ranch, 5 miles north of Paskenta, California, USA. Type material USNM Paleobiology 23063. Remark: Schuchert *et al.* (1905: 219) cited USNM 23063 as "holotype and paratypes" but did not specify which syntype was to be the holotype, so this does not constitute a valid lectotype designation.
- californicus*, *Cadulus* (*Gadila*) Pilsbry & Sharp, 1898: 180, 181, pl. 34, figs 5-8. Recent. Off San Diego, California [*Albatross* stn 2923, 32°40'30"N, 117°31'30"W, 822 fms (1500 m)]. Lectotype USNM 107698 (designated by Shimek 1989: 235); paralectotypes USNM 203136, SBMNH 35038, AMNH 148391 (4). *Cadulus californicus* Pilsbry & Sharp, 1898. Eastern Pacific: Oregon (USA) to Panama. 400-2322 m. Remark: probably referable to *Polyschides* (*vide* Emerson in Turgeon 1988: 51); further research is required.
- † *callioglyptum*, *Dentalium* Pilsbry & Sharp, 1898a: 468, pl. 10, figs 10-12, pl. 11, fig. 21. Oligocene. Dominican Republic. Syntypes ANSP 2713 (*vide* Pilsbry 1922: 399) and ANSP 79569.
- callipeplum*, *Dentalium* Dall, 1889: 419, 420, pl. 27, fig. 12-B. Recent. USBF [*Albatross*] stn 2400, 28°41'N, 86°07'W, between the Mississippi River delta and Cedar Keys [off Florida], 169 fms [308 m]. Lectotype USNM 94064 (designated by Henderson 1920: 74); paralectotypes USNM 887457 (2), MCZ 7672, USNM 95361 (1; *Blake* stn 220), USNM 95362 (1; Samana Bay, St Domingo), MCZ 7673 (1; *Blake* stn 128), MCZ 7674 (1; *Blake* stn 143; erroneously stated to be the "holotype" in Turner, 1955: 318), MCZ 7675 (1; *Blake* stn 262), MCZ 186549 (3; *Blake* stn 143), not found: USFC stn 2314 and "Coast of Honduras". *Calliodentalium callipeplum* (Dall, 1889) (*vide* Scarabino 1995: 273). Western Atlantic, Caribbean: South Carolina to Colombia. 14-4000 m.
- callithrix*, *Dentalium* Dall, 1889: 427, pl. 27, fig. 10. Recent. Yucatan Strait, 640 fms [1170 m]. Lectotype USNM 95348 (designated by Henderson 1920: 57, 58); paralectotypes USNM 93426 (4; USFC stn 2678), USNM 93758 (2; USFC stn 2383), USNM 95349 (2; *Blake* stn 20), USNM 95350 (2; *Blake* stn 236), USNM 95354 (1; *Blake* stn 248; now the holotype of *Entalina quadrata* Henderson, 1920), MCZ 7730 (1; *Blake* stn 20), MCZ 7731 (2; *Blake* stn 41), MCZ 7732 (1; *Blake* stn 162), MCZ 7733 (1; *Blake* stn 221), MCZ 7734 (1; *Blake* stn 236; erroneously stated to be the "holotype" in Turner 1955: 318). *Pertusiconcha callithrix* (Dall, 1889) (*vide* Chistikov 1982a: 678). Western Atlantic and Eastern Atlantic: from Caribbean to West Africa. 12-3500 m.
- † *caloosaense*, *Dentalium* Dall, 1892: 441, pl. 23, fig. 24. Pliocene. Caloosahatchie River and Shell Creek, Florida, USA. Syntypes USNM Paleobiology 112741 (4); possible syntypes USNM Paleobiology 112740 (6). Remark: Schuchert *et al.* (1905: 219) cited USNM 112741 as the "holotype" but did not specify which syntype was to be the holotype, so this does not constitute a valid lectotype designation.
- † *calvertensis*, *Prodentalium* Palmer, 1975: 378-380, pl. 52, figs 1-11. Middle Jurassic, Callovian. Calvert, Buckinghamshire, England, United Kingdom. Holotype BMNH GG 13330; paratypes BMNH GG 13331-13339.
- † *camaronesia*, *Dentalium sulcosum* var. Ihering, 1907: 224. Tertiary. Camarones, Patagonia, Argentina. *Dentalium sulcosum camaronesium* Ihering, 1907 (*vide* Ihering 1914: 67).
- campylus*, *Cadulus* Melvill, 1906: 80, pl. 8, fig. 32. Recent. Gulf of Oman, 156 fms [285 m]. Lectotype BMNH 1906.10.23.76 (designated by Ludbrook 1954: 113, as "holotype"; the figured specimen, *vide* Trew 1987: 29); paralectotypes BMNH 1955.158.599 (3), NMW. *Cadulus campylus* Melvill, 1906. Indian Ocean: Africa to Maldives Islands. 183-285 m.
- canaliculatum*, *Dentalium* "Klipstein" Pilsbry & Sharp, 1898: 201. Error or emendation for *Dentalium canaliculatum* Klipstein, 1843.
- cancellatum*, *Dentalium* Sowerby, 1860: 101, pl. 224, fig. 36. Recent. China. Syntypes BMNH 1996087 (2). *Coccodentalium cancellatum* (Sowerby, 1860)

- n. comb. Indo-Pacific: China. 4 m. Remark: of the two syntypes, only the figured specimen corresponds with the species description; the second specimen is *Paradentalium intercalatum* (Gould, 1859) (*vide* V. Scarabino, *in litt.* 20.II.2002).
- candelatum*, *Dentalium* (*Episiphon*) Kira, 1959: 105, pl. 40, fig. 5. Recent. Tosa Bay, Shikoku, Japan, 200 m. Type material not located. *Nomen nudum* in Habe (1953: 296), and *in Kira* (1954: 80), *vide* Bieler & Petit (1990: 141). *Episiphon candelatum* (Kira, 1959) (*vide* Scarabino 1995: 289). Indo-Pacific: Japan. 100-200 m.
- candidum*, *Dentalium* Jeffreys, 1877: 153. Recent. Type locality not specified. Syntypes BMNH 85.11.58.1239 (Northern and eastern Atlantic and Bay of Biscay, 410-1750 fms [748-3194 m], figured syntype), BMNH 85.11.58.1240 (west of Ireland, 664-1476 fms [1212-2694 m]), USNM 169428 (*Valorous* stn 5, 66°59'N, 55°27'W, 410 fms [Davis Strait, Greenland, North Atlantic, 748 m]), USNM 169429 (*Valorous* stn 8, 62°06'N, 55°56'W, 1350 fms [Davis Strait, Greenland, North Atlantic, 2464 m]), USNM 169430 (*Valorous* stn 6, 64°05'N, 56°47'W, 1100 fms [Davis Strait, Greenland, North Atlantic, 2008 m]), USNM 169431 (*Porcupine* 1869 stn 28, 56°44'N, 12°52'W, 1215 fms [Hebrides, Scotland, North Atlantic, 2217 m]), USNM 169432 (*Porcupine* 1869 stn 23, 56°07'N, 14°19'W, 664 fms [Ireland, North Atlantic, 1212 m]), USNM 169433 (*Porcupine* 1869 stn 21, 55°40'N, 12°46'W, 1476 fms [Ireland, North Atlantic, 2694 m]), USNM 169434 (*Porcupine* 1869 stn 23-A, 56°07'N, 14°18'W, 420 fms [Ireland, North Atlantic, 767 m]), USNM 169435 (*Porcupine* 1869 stn 31, 56°15'N, 11°25'W, 1360 fms [Ireland, North Atlantic, 2482 m]), USNM 169436, (*Porcupine* 1869 stn 38, 47°39'N, 11°33'W, 2090 fms [Ireland, North Atlantic, 3814 m]), USNM 169438 (Off Cape Carnveira, Portugal, *Porcupine* 1870 stn 16, 39°55'N, 9°56'W, 994 fms [1814 m]). Junior synonyms: *Dentalium solidum* Verrill, 1884 (*vide* Pilsbry & Sharp 1897: 72); *Dentalium caudani* Locard, 1896; *Dentalium caudani* var. *parfaiti* Locard, 1898 (B. Métyvier, n. syn.); *Dentalium* (*Fissidentalium*) *candidum* var. *meridionale* Pilsbry & Sharp, 1897; *Dentalium* (*Fissidentalium*) *meridionale* var. *jamaicense* Henderson, 1920 (*vide* Scarabino 1994: 307). *Fissidentalium candidum* (Jeffreys, 1877) (*vide* Pilsbry & Sharp 1897: 72). Western Atlantic: Greenland to Brazil; Eastern Atlantic: Greenland to South Africa. 403-3814 m.
- † *canna*, *Dentalium* White, 1874: 23; 1875: 156, pl. 12, fig. 6. "Carboniferous" [Permian]. Near Salt Lake, New Mexico, USA; near Relief Spring, Arizona, USA. Syntypes USNM Paleobiology 8473. *Prodentalium canna* (White, 1874) (*vide* Yancey 1978: 308, 309, pl. 6, figs 7-11). Junior synonyms: *Dentalium mexicanum* Girty, 1909 (*vide* Yancey 1978: 308); *Plagioglypta monolineata* Branson, 1930 (*vide* Yancey 1973: 1126; 1978: 308, 309).
- † *canaliculatum*, *Dentalium* Klipstein, 1843: 206, pl. 14, figs 28a, 28b. Triassic (St Cassian?). Austrian northern Italy. Remark: *Dentalium* "*canaliculatum*" Pilsbry & Sharp, 1898: 201, error or emendation.
- capense*, *Dentalium* (*Compressidens*) Tomlin, 1931: 340. Recent. South Africa, off Cape Point, 900 fms [1620 m]. Holotype SAFM A6191. Junior synonym of *Rhomboxiphus tricarinatus* (Boissevain, 1906) (*vide* Scarabino 1995: 316).
- capillosum*, *Dentalium* Jeffreys, 1877: 153, 154. Recent. Type locality not designated. Syntypes BMNH 1885.11.5.1336 (*Porcupine* 1869, 862 fms [Bay of Biscay, 1573 m]), BMNH 1877.11.28.55 (*Valorous* stn 12, 56°11'N, 37°41'W, 1450 fms [Greenland, 2646 m]), BMNH 1887.2.9.4-6 (off the Azores, *Challenger* stn 73, 38°30'N, 31°14'W, 1000 fms [1825 m]), USNM 169417 (2) (*Porcupine* 1869 stn 47, 59°34'N, 7°18'W, 542 fms [Hebrides, North Atlantic, 989 m]), USNM 169419 (*Valorous* stn 12, 56°11'N, 37°41'W, 1450 fms [Greenland, 2646 m]), USNM 169420 (*Valorous* stn 13, 56°01'N, 34°42'W, 690 fms [Greenland, 1259 m]), USNM 169421 (*Valorous* stn 16, 55°10'N, 25°58'W, 1785 fms [Greenland, 3258 m]), USNM 169423 (2) (off Cape Mondego, Portugal, *Porcupine* 1870, 220 fms [402 m]), USNM 169424 (off Cape Carnveira, Portugal, *Porcupine* 1870, 1095 fms [1998 m]), USNM 169425 (off Cape Carnveira, Portugal, *Porcupine* 1870, 984 fms [1796 m]). Junior synonyms: *Dentalium ergasticum* Fischer, 1883, *Dentalium scamnatum* Locard, 1897, *Dentalium milneedwardsi* Locard, 1898 (B. Métyvier, n. syn.; see Appendix 2). *Fissidentalium capillosum* (Jeffreys, 1877) (*vide* Pilsbry & Sharp 1897: 77). Eastern Atlantic: Greenland to Western Africa and Azores. 100-4088 m.
- caprinum*, *Dentalium* Bosc, 1802: 191. Recent. Indian Ocean ("mer des Indes") [citing Martini 1769: I, t. 1, f. 4 B]. Type material not located. Junior synonym of *Dentalium aprinum* Linnaeus, 1767 (*vide* Pilsbry & Sharp 1897: 3). Remarks: Pilsbry & Sharp (1897: 3) attributed this name to Anton (1838: 25); in fact, Anton cited the same figure from Martini, which indicates that Anton used Bosc's name without attribution. It is tempting to assume that Bosc used *caprinum* in error for *aprinum*.
- † *caprotii*, *Cadulus* (*Sulcogadila*) Moroni & Ruggieri, 1981: 30, figs 1-3. Lower Pleistocene. Acqua dei Corsari, Palermo, Italy. Holotype Museo Geologico, Univ. Palermo, O.C.R. 3131.
- carduus*, *Dentalium* Dall, 1889: 423, pl. 27, fig. 3. Recent. Off St Lucia, Lesser Antilles, *Blake* stn 220, 13°50'N, 61°03'W, 116 fms [211 m]. Lectotype MCZ 7692 (designated by Henderson 1920: 33); paralectotypes USNM 95321 (*Blake* stn 246),

- USNM 95322 (USBF stn 2655), MCZ 7691 (Blake stn 246). Junior synonym: *Dentalium floridense* Henderson, 1920 (*vide* Scarabino 1994: 307). *Fissidentalium carduus* (Dall, 1889) (*vide* Emerson in Turgeon 1988: 50; 1998: 200). Western Atlantic, Caribbean. 180-600 m. Remarks: Emerson (1952a: 2) assigned *carduus* to *Coccodentalium*. Emerson in Turgeon (1988: 50; 1998: 54) listed *Fissidentalium floridense* as a distinct species.
- carinatum*, *Dentalium* O. G. Costa 1851. Not a scaphopod. See Other taxa described as Scaphopoda.
- carlessi*, *Gadila* Lamprell & Healy, 1998: 154, 155, figs 155a, 156a, 161. Recent. East of Cape Melville, northern Queensland, 14°22'S, 145°52'E, 2710 m. Holotype QM MO40084. *Gadila carlessi* Lamprell & Healy, 1998. Known from the type locality only.
- carneum*, *Dentalium* (*Episiphon*) Boissevain, 1906: 48, pl. 6, figs 42-45. Recent. Indonesia, Flores Sea, *Siboga* stn 45, 07°24'S, 118°15.2'E, 794 m. Lectotype ZMA 3.06.052 (designated by Scarabino 1995: 287); paralectotypes ZMA 3.06.053 (14), ZMA 3.06.054 (1; Timor Sea, *Siboga* stn 300, 10°48.6'S, 123°23.1'E, 918 m), ZMA 3.06.055 (2; Ambon, *Siboga* stn 181, 36-54 m). Junior synonym of *Episiphon virgula* (Hedley, 1903) (*vide* Scarabino 1995: 287).
- † *carolinense*, *Dentalium* Conrad, 1862a: 288; 1863: 570. Miocene. North Carolina, USA.
- carolinensis*, *Cadulus* Bush in Verrill, 1885b: 587; Bush 1885: 471, pl. 45, fig. 19. Recent. Off Cape Hatteras, USBF stn 2114, 35°20'N, 75°20'W, 14 fms [26 m]. Syntypes USNM 35811 (figured), MCZ 186818 (4). *Polyschides carolinensis* (Bush in Verrill, 1885) (*vide* Pilsbry & Sharp 1898: 152). Western Atlantic, Caribbean. 5-159 m.
- † *caronensis*, *Cadulus* Mansfield, 1925: 61, pl. 7, fig. 6. Miocene. About 1 mile S of Brasso, Caroni County, Montserrat Ward, Trinidad. Figured syntype USNM Paleobiology 352692 (1).
- † *cartagenense*, *Dentalium* Pilsbry & Brown, 1917: 37, 38, pl. 5, fig. 10. Oligocene. Near Cartagena, Colombia. Holotype ANSP 3058.
- † *caseyi*, *Dentalium* n. nom. Oligocene. Red Bluff, Mississippi, USA. Doubtful syntype USNM Paleobiology 481673 (1) (*vide* MacNeil & Dockery 1984: 247). Replacement name for *Dentalium polygonum* Casey, 1903 non *Dentalium polygonum* Reuss, 1844.
- † *casselsensis*, *Gadila* R. Janssen, 1989: 89, pl. 2, fig. 18. Upper Oligocene, Chattian. Glimmerode, near Hessisch-Lichtenau, Niederhessen, Germany. Holotype SMF 308322; paratypes SMF 308323/2 and Collection Gürs.
- castellacci*, see *castellacei*.
- † *castellacei*, *Dentalium* Scalia, 1914: 2, pl. 1 [7], fig. 5. Triassic. Castellace, Italy. Type material in Istituto di Geologia della R. Università Catania. *Dentalium castellacci* [Diener, 1926: 228] is an incorrect subsequent spelling.
- † *castellanensis*, *Dentalium* d'Orbigny, 1850 (volume 2): 320. Eocene, Suessonian. Le Vit, near Castellanne (Basses-Alpes) [Alpes-de-Haute-Provence] and Bidart (Basses-Pyrénées) [Pyrénées-Atlantiques], France. Syntypes MNHN (fide Boussac 1911b: 256, pl. 16, figs 7, 8). Boussac (1911) erroneously used *Dentalium haeringense* Dreger, 1892 as the valid name for this species.
- catenulatum*, *Dentalium* Chenu, 1843: pl. 4, fig. 11; 1850: 2. Piedmont (Miocene/Pliocene; Italy). Junior synonym of *Dentalium fossile* Gmelin, 1791 (*vide* Pilsbry & Sharp 1898: 201).
- catharus*, *Cadulus* (*Platyschides*) Henderson, 1920: 112, 113, pl. 18, fig. 5. Recent. Off English Harbor, Antigua, State Univ. Iowa Exp. 1898 stn 15, 120 fms [219 m]. Holotype USNM 596596. *Cadulus catharus* Henderson, 1920. Western Atlantic, Caribbean. 100-219 m. Remark: although the subgenus *Platyschides* was put in synonymy with *Gadila* by Scarabino (1995: 196, 355), this species with its simple apical orifice and the maximum diameter in the middle of the shell belongs to *Cadulus*.
- † *catulloi*, *Dentalium* Vinassa de Regny, 1896: 204, 205, pl. 5, fig. 2a, b. Miocene. Italy. Remark: as a *nomen nudum* in Vinassa de Regny (1895: 262).
- caudani*, *Dentalium* Locard, 1896a: 213; 1896b: 171, pl. 6, fig. 2. Recent. Bay of Biscay, *Caudan* stn 15, 3°02'W [5°22'W, Paris meridian], 44°02'N, 1300 m. Holotype (preserved specimen without shell) in Faculté des Sciences, Lyon (*vide* B. Métivier pers. comm.). Junior synonym of *Fissidentalium candidum* (Jeffreys, 1877) (B. Métivier, n. syn.).
- caymanica*, *Costentalina* Chistikov, 1982b: 1314, pl. 1 figs 5, 6, pl. 3 figs 1-11. Recent. Cayman Trench [Caribbean Sea], Akademik Kurtschatow stn 1267 T, 19°38.7'N, 76°37.1'W, 6740-6780 m. Holotype IOM; paratypes IOM (7 from 1267 T; 1 from 1267 D, the type locality; 1 from stn 1259 D, 19°05.6'N, 80°30.1'W, 5930 m; 5 from stn 1266, 19°45.4'N, 76°43.8'W, 6300-5900 m). *Costentalina caymanica* Chistikov, 1982. Western Atlantic, Caribbean: Cayman Trench. 5900-6780 m.
- † *cazadorianum*, *Dentalium* Wilckens, 1907: 121, 122 [25, 26], pl. 4, fig. 9. Upper Cretaceous. Cazador and Cancha Carrera, Patagonia, Argentina.
- ceciliae*, *Compressidentalium* Scarabino, 1995: 263, figs 69, 70k, 71i. Recent. New Caledonia, RV *Vauban* MUSORSTOM 4, stn DW 220, 22°58'S, 167°38'E, 505-550 m. Holotype MNHN; paratypes MNHN (7 from MUSORSTOM 4 stn DW 220; 4 from BIOCAL stn DW 51), AMS C201725 (1; BIOCAL stn DW 54), NMNZ M268958 (1; MUSORSTOM 4 stn DW 220), USNM 890864 (1; BIOCAL stn DW 51). *Compressidentalium ceciliae* Scarabino, 1995. Indo-Pacific: New Caledonia. 505-700 m.
- cedrosense*, *Dentalium* (*Rhabdus*) Hertlein & Strong, 1951: 69, 70, pl. 11, fig. 9. Recent. off the east

- coast of Cedros Island, Lower California, Mexico, Templeton Crocker stn 126-D-12, 28°20'00"N 115°10'30"W, 45 fms [82 m]. Holotype CAS. Junior synonym of *Episiphon innumerabile* (Pilsbry & Sharp, 1897) (*vide* Keen 1971: 888).
- † *centenniale*, *Dentalium* Marwick, 1942: 279, pl. 24, fig. 26. Eocene, Bortonian. Hampden Beach, NE of Otago, New Zealand. Holotype NZGS TM4802 (*vide* Keyes 1972: 95). Remarks: based on the Onekakara (Hampden Beach) paralectotypes of *Dentalium mantelli* Zittel, 1864, which Marwick concluded represented two species (*vide* Dawson 1991: 23; 1994: 118). Maxwell (1992: 185) suggested that this species "may also belong in *Fissidentalium*".
- ceras*, *Dentalium* Watson, 1879: 510, 511 [Watson 1886: 3, pl. 1, fig. 4]. Recent. Mid Pacific, East of Japan, *Challenger* stn 246, 36°10'N, 178°00'E, 2050 fms [3690 m]. Syntypes BMNH 1887.2.9. 10-11 (the specimen from stn 299, 33°31'S, 74°43'W, 2160 fms, west of Valparaiso, Chile was not found in BMNH). *Fissidentalium ceras* (Watson, 1879) (*vide* Ludbrook 1954: 93). Indo-Pacific: India to Japan; Eastern Pacific: Chile. 3690-3747 m. Remark: Scarabino (1995: 250) considered *megathyris* a junior synonym of *Fissidentalium ceras* (Watson, 1879). However, this proposed synonymy requires a comparative study of all taxa included in this species group.
- ceratum*, *Dentalium* Dall, 1881: 38. Recent. Off La Havana, Cuba, *Blake* stn 2, 23°14'N, 82°25'W, 805 fms [1472 m]. Lectotype USNM 95326 (designated by Henderson 1920: 50); paralectotypes USNM 887458, MCZ 7697, MCZ 7706 (West Florida, 50 fms [91 m]). Junior synonym: *Dentalium (Antalis) ceratum tenax* Henderson, 1920 (n. syn.). *Antalis cerata* (Dall, 1881) (*vide* Pilsbry & Sharp 1897: 57). Western Atlantic, Caribbean: Florida to Rio de la Plata. 32-1960 m.
- cerinum*, *Dentalium (Rhabdus)* Pilsbry, 1905: 117, 118, pl. 5, figs 40, 41. Recent. Shimizu, Suruga, Japan. Holotype ANSP 88305. Junior synonym: *Dentalium tracheatum* Boissevain, 1906 (*vide* Scarabino 1995: 297). *Omniglypta cerina* (Pilsbry, 1905) (*vide* Habe 1953: 296). Indo-Pacific: Indonesia to Japan and northeastern Australia. 800-3925 m.
- cestum*, *Dentalium (Dentalium) texasianum* Henderson 1920: 29, pl. 2, figs 1, 4, 8. Recent. Pass Cabello, Texas. Holotype USNM 159503. Synonym of *Dentalium texasianum* Philippi, 1848, a junior synonym of *Paradentalium americanum* (Chenu, 1843) (*vide* Scarabino 1975: 183).
- cheverti*, *Dentalium (Dentalium)* Sharp & Pilsbry in Pilsbry & Sharp, 1897: 9. Recent. Evans Bay, Cape York, North Australia, 6 fms [11 m]. Lectotype (of *septemcostatum* Brazier) AMS A96 (designated by Ponder & Stanbury 1972: 53) and 3 paralectotypes. Replacement name for *Dentalium septemcostatum* Brazier, 1877, a junior homonym of *Dentalium septemcostatum* Abich, 1859. *Dentalium cheverti* Sharp & Pilsbry in Pilsbry & Sharp, 1897. Indo-Pacific: eastern Australia. 4-738 m.
- † *chilense*, *Dentalium* d'Orbigny in Grange, 1847: pl. 4 (Paléontologie pl. 1), figs 37, 38. No locality given. Remarks: no description of this species was published in the text; the species attributed to d'Orbigny in Grange are all "name and figure" only (*vide* Sherborn & Woodward 1901a: 391). Pilsbry & Sharp (1898: 220) stated that this species was from the Cretaceous of Chile. Feruglio (1949a: 304; 1949b: 249) stated that this species was from the Senonian of Quiriquina (Chile).
- chinensis*, *Striodentalium* Qi & Ma, 1989: 119, fig. 11. Recent. East China Sea, 52-173 m. Type depository not specified. *Striodentalium chinensis* Qi & Ma, 1989. Indo-Pacific: China Sea. 52-173 m.
- † *chipolanum*, *Dentalium (Antalis)* Gardner, 1947: 625, 626, pl. 57, figs 18-18a. Oligocene. Alum Bluff Group, Chipola Formation. USGS locality 3419, McClelland Farm, 1 mile below Bailey's Ferry, Calhoun County, Florida, USA. Holotype USNM Paleobiology 329137.
- † *chubutensis*, *Dentalium (Laevidentalium)* Sabattini, 1979: 21, pl. 1, figs 1, 2. Upper Carboniferous, Tepuel Group. County Toba, Colán-Conhué, Sierra de Languineo, Chubut Province, Argentina. Holotype MLP 13164; paratype MLP 13165.
- chuni*, *Cadulus (Cadulus)* Jaeckel, 1932: 309, fig. 6. Recent. Somalia, Africa, *Valdivia* stn 256, 1°49'N, 45°29.5'E, 1134 m. Lectotype ZMB 75374a (designated by Kilias 1995: 173); paralectotypes ZMB 75374b (stn 256), ZMB 75375 (stn 245). *Cadulus chuni* Jaeckel, 1932. Indo-Pacific: Africa to Philippines. 205-1134 m. Remark: the figured specimen from *Valdivia* stn 245, ZMB 75375, was so degraded that Kilias chose a specimen from stn 256 as the lectotype.
- chuni*, *Dentalium (Fissidentalium)* Plate, 1908a: 341-343, pl. 30, figs 1-9. Recent. East African Coast, *Valdivia* stn 251, 1°40.6'S, 41°47.1'E, 693 m. Lectotype ZMB 63824 (designated by Kilias 1995: 172); paralectotypes ZMB 61100 (stn 256), ZMB 61102 (stn 254), ZMB 61103 (stn 191), ZMB 63821 (stn 264), ZMB 63822 (stn 256), ZMB 63823 (stn 254). Junior synonym of *Fissidentalium shoplanti* (Jousseume, 1894) (*vide* Scarabino 1995: 248). Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *D. chuni* vis-à-vis *Fissidentalium transversostriatum* (Boissevain, 1906) requires further research.
- † *cidaris*, *Dentalium* Geinitz, 1850: 144, 145. Cretaceous. Niederwarthla and Strehlen, Germany; Bohemia, Czech Republic. Name for *Dentalium striatum* "J. Sowerby, 1814" *sensu* Geinitz 1839. Junior synonym: *Dentalium reussianum* Ryckholt, 1851 (*vide* Pilsbry & Sharp 1898: 220).
- cinctum*, *Dentalium* de Koninck, 1843. Not a scaphopod. See Other taxa described as Scaphopoda.

- † *cinctum*, *Dentalium* Goldfuss, 1841: 3, pl. 166, fig. 7. Jurassic. Derneberg, near Hannover, Germany. Objective junior synonym: *Dentalium muensteri* Pilsbry & Sharp, 1898. Remark: Pilsbry & Sharp (1898: 224) erroneously dated this name to 1844, and therefore concluded that it was a junior homonym of *Dentalium cinctum* de Koninck, 1843. Thus, Pilsbry & Sharp proposed *Dentalium muensteri* as a replacement name for what is, in fact, the senior homonym.
- cinerascens*, *Dentalium* Anton, 1838: 25. Recent. Adriatic Sea [in error]. Tentative (senior!) synonym of *Antalis occidentalis* (Stimpson, 1851) (*vide* Pilsbry & Sharp 1897: 48). Remark: pursuant to ICZN (1999) article 23.9 we propose to preserve Stimpson's name, *occidentalis*, for this species. The name *cinerascens* has not been used whereas the name *occidentalis* has consistently been used for this species after 1851.
- cingulatum*, *Dentalium* Hoeninghaus, 1831: 155. Tertiary. *Nomen nudum*.
- cingulatus*, *Dentalites* Schlotheim, 1820. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *circinatum*, *Dentalium* G. B. Sowerby, 1823: pl. 138, fig. 5. No locality given. Remarks: Pilsbry & Sharp (1898: 201) stated that this species was from the Eocene, Paris Basin, France; Newton (1891: 284, 285) recorded this species from the Middle Eocene of England. Type species of the genus *Fustiaria* Stoliczka, 1868, by subsequent designation (Pilsbry & Sharp 1897: 127). Newton (1891: 285, 286) misidentified *Dentalium subburneum* d'Orbigny, 1850, as *Fustiaria circinata* (*vide* Pilsbry & Sharp 1898: 216).
- circumcinctum*, *Dentalium* Watson, 1879: 513, 514 [Watson 1886: 7, pl. 1, fig. 7]. Recent. Type locality not specified. Syntypes BMNH 1887.2.9.24-25 (*Challenger* stn II, Setubal [Portugal], 38°10'N, 9°14'W, 470 fms [858 m]), BMNH 1887.2.9.26 (*Challenger* stn 23, Sombroero Island, St Thomas, 450 fms [821 m]), BMNH 1887.2.9.30 (figured specimen; *Challenger* stn 122, Pernambuco [Brazil], 9°05'S, 34°50'W, 350 fms [639 m]). *Antalis circumcincta* (Watson, 1879) (*vide* Thomas 1975: 293). Western Atlantic: Caribbean and Brazil; Eastern Atlantic: North Africa and Gulf of Guinea. 238-1935 m. Remark: Watson (1886: 7) subsequently recorded 2 specimens from *Challenger* stn 56 (off Bermuda, 32°8'45"N, 64°59'35"W, 1075 fms [1962 m]), which are in the type collection (BMNH 1887.2.9.27-28), but these specimens are not syntypes.
- citrina*, *Dentalium vulgare* var. Monterosato, 1884: 32. *Nomen nudum* without type locality or description.
- † *claibornense*, *Dentalium* (*Antalis*) *thalloides* var. Palmer, 1937: 14, 15, pl. 1, figs 1, 2, 5. Eocene, Claiborne Formation. Locality 104, Gosport sand, Mississippi, USA. Syntypes PRI 2626, PRI 2627.
- † *clarae*, *Cadulus* Maury, 1910: 151, pl. 8, fig. 7. Oligocene. Oak Grove, Santa Rosa County, Florida, USA. Syntype USNM Paleobiology 639096 (1).
- clathratum*, *Dentalium* von Martens, 1881: 66. Recent. Off Moreton Bay [Queensland], Australia, 550 fms [1006 m]. Holotype ZMB 33122. *Compressidentalium clathratum* (von Martens, 1881) (*vide* Scarabino 1995: 263). Indo-Pacific: Australia. 23-1606 m. Remark: Lamprell & Healy (1998) listed *Dentalium sedecimcostatum* Boissevain, 1906 as a junior synonym of *C. clathratum*, an opinion not shared by Scarabino (1995). However, V. Scarabino (*in litt.* 5.XI.2001) stated that he now agrees with this synonymy.
- clausum*, *Dentalium* Turton, 1819. Not a scaphopod. See Other taxa described as Scaphopoda.
- clava*, *Dentalium* Lamarck, 1818. Not a scaphopod. See Other taxa described as Scaphopoda.
- clavatum*, *Dentalium* Gould, 1859: 166. Recent. Hong Kong [China]. Lectotype USNM 24245 (designated by Johnson 1964: 239, as "holotype"); paralectotypes MCZ 169089 (1), MCZ 216584 (1). *Gadila clavata* (Gould, 1859) (*vide* Scarabino 1995: 364). Indo-Pacific: South Africa, Red Sea, China. 10-175 m.
- clavus*, *Dentalium* Cooke, 1885: 275. Recent. Gulf of Suez. Lectotype (of *D. macandrewi* Boissevain, 1906 designated by Scarabino 1995: 204) not in ZMA (*vide* R. Moolenbeek & A. N. Van der Bijl *in litt.* 23.VI.2000) or in UMZC; paralectotypes UMZC I.100,745. Junior synonyms: *Dentalium aratorum* Cooke, 1885; *Dentalium macandrewi* Boissevain, 1906 (*vide* Scarabino 1995: 204; Singer 2003: 11, 14). *Dentalium clavus* Cooke, 1885 (*vide* Singer 2003: 13, 14). Indian Ocean: Red Sea, Africa. 14-60 m. Remarks: Boissevain (1906: 25) replaced this name, together with and *Dentalium lineolatum*, with *Dentalium macandrewi*. Scarabino (1995: 204) placed *D. clavus* in synonymy with *D. reevei* Fischer, 1871.
- coarctatum*, *Dentalium* Brocchi, 1814. Not a scaphopod. See Other taxa described as Scaphopoda. Remarks: *Dentalium coarctatum* – Lamarck 1818: 346 was subsequently described as *D. ventricosum* Bronn, 1828; *D. coarctatum* – O. G. Costa 1851: 38, 41, 42, was subsequently described as *Cadulus medius* Pilsbry & Sharp, 1898.
- coarti*, *Dentalium* Dautzenberg, 1912: 81, pl. 3, figs 44, 45. Recent. Type locality not specified. Syntype MNHN (Wharf of Tamara [Guinea]); other syntypes not located, described from the following localities: between Conakry and Boulbine, Guinea; southwest of Conakry, Guinea; west of Crawford Bank, Guinea; near Île Roume, Archipel de Los, Guinea; Grand Bassam, 15 m, Côte d'Ivoire; off Cotonou, 20-25 m, Benin; Libreville Bay, Gabon. Junior synonym of *Dentalium congoensis* Plate, 1908 (*vide* Nicklès 1979: 44).
- cobbi*, *Gadila* Lamprell & Healy, 1998: 155, figs 155G, 156D, 163. Recent. Off Cairns, northern Queensland, Australia, 16°37.7'S, 146°20.4'E, 685-658 m. Holotype AMS C174638; paratypes

- AMS C173427 (1), AMS C8017 (2; Darnley Island, Torres Strait, Queensland), AMS C173685 (6; NE of Lady Musgrave Island, Queensland, 23°52.5'-51.9'S, 152°42.7'-41.7'E, 296 m), AMS C173438 (1; E of Lady Musgrave Island, Queensland, 23°52.5'-23°51.9'S, 152°42.7'-152°41.7'E, 296 m), AMS C173655 (1; off Cairns, Queensland, 17°09.53'S, 146°42.36'E, 253 m), AMS C174639 (12; E of Lady Musgrave Island, Queensland, 23°52.5'-23°51.9'S, 152°42.7'-152°41.7'E, 296 m), QM MO40083 (14; off Cairns, northern Queensland, 17°22'S, 146°48'E, 303 m). *Gadila cobbi* Lamprell & Healy, 1998. Indo-Pacific: northern and eastern Australia. 150-1161 m.
- cocconii*, *Dentalium* (*Fustiaria*) Sharp & Pilsbry in Pilsbry & Sharp, 1897: 87. Replacement name for *Dentalium dispar* Cocconi, 1874, a junior homonym of *Dentalium dispar* Sowerby, 1860. Objective junior synonym of *Fustiaria rubescens* var. *exdispar* Sacco, 1897 (fide Pilsbry & Sharp 1898: 214).
- cocentum*, *Dentalium* Hoeninghaus, 1831: 155. Tertiary. Tabbiano, Italy. *Nomen nudum*.
- † *coelatulum*, *Dentalium* Bailly in Salter, 1857: 87, pl. 2, figs 8a, 8b. Cretaceous. Upper Greensand, Aberdeenshire, Scotland, United Kingdom.
- † *coislinense*, *Dentalium* (*Entalis*) Cossmann, 1902: 107 [157], pl. 10 [15], fig. 17. Eocene. Coislin and Campbon, northwestern France.
- colamni*, see *colmani*.
- colligens*, *Dentalium sexangulum* var. Sacco, 1897: 94. Pliocene. Italy. *Nomen nudum*; published in synonymy of *Dentalium sexangulum* var. *acutangularis* Cocconi, 1873.
- collinsae*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 31, figs 20C, 21C, 24, 25C, D. Recent. In channel, 0.8 km south of Green Island, Oyster Harbour via Albany, Western Australia. Holotype WAM 230/94; paratypes WAM N3126 (10), WAM N3129 (1; in channel W of Green Island, Oyster Harbour via Albany, Western Australia, 10 m). *Dentalium collinsae* Lamprell & Healy, 1998. Indian Ocean: western Australia. 10 m.
- colliverae*, *Cadulus* Lamprell & Healy, 1998: 163, figs 167C, 168F, 171. Recent. Off Cairns, northern Queensland, Australia, 17°22'S, 146°48'E, 296-303 m. Holotype QM MO17654. *Cadulus colliverae* Lamprell & Healy, 1998. Known from type locality only.
- colmani*, *Dentalium* Palmer, 1974b: 124. Recent. 35 miles east of Sydney, 1463 m. Holotype (of *applanatum* Colman) AMS C22652; paratypes AMS C170645 (24; 35 miles E of Sydney, 1463 m). Replacement name for *Dentalium* (*Bathoxiphus*) *applanatum* Colman, 1958, a junior homonym of *Dentalium applanatum* Torley, 1908. *Rhomboxiphus colmani* (Palmer, 1974) (fide Scarabino 1995: 317). Indo-Pacific: Australia to New Caledonia. 241-3658 m. Remarks: Chistikov (1983: 183) synonymized this species with *Bathoxiphus soyomaruae* Okutani, 1964; Scarabino (1995: 314, 317) rejected Chistikov's synonymy. *Bathoxiphus colamni* [Okutani, 1975: 77] is an incorrect subsequent spelling.
- † *colobus*, *Cadulus* Pilsbry & Sharp, 1898a: 474, pl. 11, figs 17-20. Oligocene. Dominican Republic. Type material ANSP 2886 (fide Pilsbry 1922: 401). *colonense*, *Dentalium* (*Dentalium*) *gouldii* Henderson, 1920: 31, pl. 3, fig. 6. Recent. *Albatross* stn 2145, near Colon, Panama, 9°27'N, 79°54'W, 25 fms [46 m]. Holotype USNM 94085. Synonym of *Dentalium gouldii* Dall, 1889 (fide Scarabino in Rios 1975: 183).
- colubridens*, *Cadulus* Watson, 1879: 523, 524 [Watson 1886: 18, pl. 3, fig. 1]. Recent. North East Point of New Zealand, *Challenger* stn 169, 37°34'S, 179°22'E, 700 fms [1276 m]. Holotype BMNH 1887.2.9.71. *Siphonodentalium colubridens* (Watson, 1879) (fide Scarabino 1995: 329). Indo-Pacific: Africa to New Caledonia, Japan, New Zealand. 630-2800 m.
- columbiana*, *Antalis* Clessin 1896: 43, pl. 10, fig. 4. Recent. British Columbia [Canada]. Type material not located in the Naturmuseum Stuttgart. Junior synonym of *Antalis pretiosum* (Sowerby, 1860) (fide Pilsbry & Sharp 1897: 45).
- complexum*, *Dentalium*, Dall, 1895: 686, 687, pl. 26, fig. 3. Recent. Off Honolulu, Hawaii, *Albatross* stn 3472, 21°12'N, 157°49'W, 295-298 fms [538-544 m]. Syntypes USNM 107023, USNM 107022 (stn 3476, 21°09'N, 157°53'W, 298 fms [544 m]); BPBM. *Fissidentalium complexum* (Dall, 1895) (fide Pilsbry & Sharp 1897: 76). Indo-Pacific: Hawaii. 468-544 m.
- compressiusculum*, *Dentalium* Boissevain, 1906: 33, 34, pl. 6, fig. 12. Recent. Banda Sea, *Siboga* stn 241, 04°24.3'S, 129°49.3'E, 1570 m. Holotype ZMA 3.06.044. *Compressidentalium compressiusculum* (Boissevain, 1906) (fide Habe & Kosuge 1964: 4). Indo-Pacific: Madagascar to Indonesia and New Caledonia. 540-2570 m.
- compressum*, *Dentalium* d'Orbigny, 1850. Not a scaphopod. See Other taxa described as Scaphopoda.
- compressum*, *Dentalium* Watson, 1879: 516 [Watson 1886: 9, 10, pl. 1, fig. 9]. Recent. North of Culebra Island [Virgin Is.], West Indies, *Challenger* stn 24, 18°38'30"N, 65°05'30"W, 390 fms [712 m]. Holotype BMNH 1887.2.9.35. Junior homonym of *Dentalium compressum* d'Orbigny, 1850. Replacement name: *Dentalium* (*Compressidens*) *pressum* Sharp & Pilsbry in Pilsbry & Sharp, 1897: 124. *Compressidens pressum* (Sharp & Pilsbry in Pilsbry & Sharp, 1897).
- compressum*, *Dentalium* Meyer, 1883: 258, 259, fig. 4. Oligocene. Joachimsthal and Hermsdorf, Germany. Junior homonym of *Dentalium compressum* d'Orbigny, 1850 (Polychaeta) and *Dentalium compressum*

- Watson, 1879. Replacement name: *Dentalium otto* Sharp & Pilsbry in Pilsbry & Sharp, 1897: 119; 1898: 211.
- compressum*, *Dentalium* Martin, 1885: 189, 190, pl. 10, fig. 190; 1887: 189, 190, pl. 10, fig. 190. Tertiary. Ngembak, Java, Indonesia. Syntypes RGM 7291 (6) (*vide* Van den Hoek Ostende *et al.* 2002: 112). Junior homonym of *Dentalium compressum* d'Orbigny, 1850 (Polychaeta); *Dentalium compressum* Watson, 1879; *Dentalium compressum* Meyer, 1883. Martin (1919: 69) transferred his species to *Entalina*. The replacement name, *Cadulus martini* Finlay, 1927, is itself a junior homonym of *C. martini* Whitfield, 1882. Replacement name: *Dentalium javense* Palmer, 1974.
- compressum*, *Dentalium* Sowerby, 1889: 569, 570, pl. 28, fig. 18. Recent. Hong Kong. Junior homonym of *Dentalium compressum* d'Orbigny, 1850; *D. compressum* Watson, 1879; *D. compressum* Meyer, 1883; *D. compressum* Martin, 1885. Replacement name: *Dentalium (Fissidentalium) hungerfordi* Pilsbry & Sharp, 1897: 84. *Compressidentalium hungerfordi* (Pilsbry & Sharp, 1897) (*vide* Habe 1963: 260).
- comprimatum*, *Dentalium (Compressidens)* Plate, 1908a: 349, 350, pl. 30, figs 26-34. Recent. Zanzibar Channel, *Valdivia* stn 245, 5°27.9'S, 39°18.8'E, 463 m. Lectotype ZMB 61101a (designated by Kilius 1995: 173); paralectotypes ZMB 61101b (2). *Compressidens comprimatum* (Plate, 1908) (*vide* Scarabino 1995: 370). Indian Ocean; East Africa. 238-463 m.
- concinnum*, *Dentalium* von Martens, 1878: 134. Recent. West Africa, Gazelle Exp., 10°6.9'N, 17°16'W, 360 fms [657 m]. Lectotype ZMB 29310a (designated by Kilius 1995: 173); paralectotype ZMB 29310b. *Fissidentalium concinnum* (von Martens, 1878) (*vide* Pilsbry & Sharp 1898: 249). Eastern Atlantic: Africa. 270-677 m. Remark: Both Pilsbry & Sharp (1898: 249) and Kilius (1995: 173) erroneously gave 150 fms as the original depth.
- concretum*, *Dentalium* Colman, 1958: 141, fig. 2. Recent. 27.5 miles E of Sydney, 300 fms [548 m]. Holotype AMS C62231; paratypes AMS C170638 (11). *Striodentalium concretum* (Colman, 1958) (*vide* Scarabino 1995: 241). Pacific Ocean: SE Australia. 6-1000 m.
- † *confusum*, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898: 220. Cretaceous: Turonian. Visé, Belgium. Replacement name for *Dentalium alternans* Ryckholt, 1851, a junior homonym of *Dentalium alternans* Chenu, 1843, and *D. alternans* Müller, 1851.
- congoensis*, *Dentalium* Plate, 1908a: 349, pl. 30, figs 24, 25. Recent. Mouth of Congo River, *Valdivia* stn 71, 6°18.7'S, 12°2.1'E, 44 m. Holotype ZMB 61085. Junior synonym: *Dentalium coarti* Dautzenberg, 1912, and *Dentalium coarti* var. *septemcostatum* Dautzenberg, 1912 (*vide* Nicklès 1979: 44). *Dentalium congoensis* Plate, 1908. Eastern Atlantic: Africa. 4-150 m. Remark: Plate gave the latitude as "N" instead of "S".
- congruens*, *Cadulus curtus* var. Watson, 1879: 527 [Watson 1886: 21, pl. 3, fig. 7a]. Recent. Culebra Island [Virgin Is.], St Thomas, *Challenger* stn 24, 390 fms [712 m]. Syntype BMNH 1887.2.9.83. *Cadulus congruens* Watson, 1879 (*vide* Henderson 1920: 142). Known from the type locality only. Remark: Watson described this variety from 2 specimens, but the lot in BMNH is labelled "holotype" and contains a single specimen; the second specimen has not been found.
- conicum*, *Dentalium* Hutton, 1873b: 1. Tertiary, Wanganui (Pliocene) and Ahuriri (Miocene) Formations. Shakespeare Cliff and Broken River, New Zealand. Lectotype NZGS TM4810 (designated by Keyes 1972: 96). *Dentalium zelandicum* Sowerby, 1866 (*vide* Keyes 1972: 96); *Fissidentalium opacum* (Sowerby, 1829) (*vide* Suter 1913: 819).
- conicum*, *Dentalium* Seguenza, 1876: 266. Pliocene. Italy (various localities). Junior homonym of *Dentalium conicum* Hutton, 1873. Remark: we prefer not to rename this junior homonym because of the insufficient description and the lack of type material we consider it a *nomen dubium*.
- † *conradi*, *Cadulus (Gadila)* Pilsbry & Harbison, 1933: 117, pl. 4, figs 18, 19. Miocene. Shepherd's Pit, near Shiloh, New Jersey, USA. Holotype ANSP 12596; paratypes ANSP 19554 (57).
- conradi*, *Dentalium* Dall, 1909: 136. Miocene. Astoria, Oregon, USA. An unnecessary replacement name for *Teredo substriatum* Conrad, 1849, a secondary homonym of *Dentalium substriatum* Deshayes, 1825. Remarks: Conrad's name was already renamed *Dentalium pseudonyma* Pilsbry & Sharp, 1898; Dall's replacement name is a junior objective synonym. Since Conrad's name encompassed what Dall regarded as two species, Dall restricted the name *substriatum* Conrad, by describing the "smooth" form as a separate species, *D. petricola*. Emerson (1958: 93) concluded that *petricola* was a valid species of *Dentalium (Rhabdus)*.
- conspicuum*, *Dentalium* Melvill, 1897: 21, pl. 7, fig. 28. Recent. Karachi [Pakistan]. Syntypes BMNH 1897.7.30.80-81. Junior synonym of *Tesseracme quadruplicalis* (Hanley in Sowerby, 1860) (*vide* Scarabino 1995: 222).
- † *constrictum*, *Dentalium* Newton & Harris, 1894: 64, text-fig. Eocene, London Clay. Fareham and Portsmouth, England, Great Britain. Junior synonyms: *Entaliopsis annulata* Newton & Harris, 1894; *Dentalium entaliopsis* Pilsbry & Sharp, 1898 (*vide* Jeffery & Tracey 1997: 90). *Antalis constricta* (Newton & Harris, 1894) (*vide* Jeffery & Tracey 1997: 90, pl. 15, figs 3-6).
- cookei*, *Dentalium (Dentalium)* Sharp & Pilsbry in Pilsbry & Sharp, 1897: 29. Recent. Gulf of Suez.

- Holotype (of *Dentalium acus* Cooke, 1885) UMZC I.100.735. Replacement name for *Dentalium acus* Cooke, 1885, a junior homonym of *Dentalium acus* Eichwald, 1856. *Dentalium cookei* Sharp & Pilsbry in Pilsbry & Sharp, 1897. Indian Ocean, Red Sea. 75-148 m.
- † *coonensis*, *Cadulus* Stephenson, 1941: 256, pl. 46, fig. 23. Cretaceous, Ripley Formation. Coon Creek, McNairy County, Tennessee, USA. Holotype USNM Paleobiology 32824; 12 paratypes USNM Paleobiology 76784. Remarks: Stephenson (1941: 256) also recorded this taxon from the Navarro Group (Cretaceous) of Texas. This species was misidentified as *Cadulus obnutus* Conrad, 1869 by Wade (1926).
- † *cooperi*, *Dentalium* Gabb, 1864: 139, pl. 21, fig. 100. Cretaceous. San Diego; NE of Martinez; near Fort Téton; Curry's, S of Mount Diablo; and Siskiyou Mountains, California, USA. Remark: Anderson & Hanna (1925: 143) concluded that "it is entirely probable that the type came from" Rose Canyon, near San Diego.
- † *corallinum*, *Dentalium* d'Orbigny, 1850 (volume 2): 12. Jurassic. La Rochelle, France.
- cordiseturata*, *Entalina* Habe, 1953: 399 [ex Kuroda MS]. *Nomen nudum*.
- coridisecuratum*, *Dentalium* (*Entalina*) Shikama, 1964: 35, caption to fig. 62(6) [ex Kuroda MS]. *Nomen nudum*. Recent. Okezoko, off Cape Ashizuri, southwestern Shikoku, Japan. Remark: as a *nomen nudum* in Goto & Poppe (1996: 1025).
- corneum*, *Dentalium* Linnaeus, 1767. Not a scaphopod. See Other taxa described as Scaphopoda.
- cornicula*, *Dentalium* d'Orbigny, 1852. Not a scaphopod. See Other taxa described as Scaphopoda.
- corniculum*, *Dentalium* O. G. Costa, 1851. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *cornu*, *Dentalium* de Koninck, 1877: 315, 316, pl. 23, fig. 4; 1898: 249, pl. 23, fig. 4. Carboniferous. Karúa, New South Wales, Australia.
- cornubovis*, *Dentalium* E. A. Smith, 1906: 249, 250. Recent. Indian Ocean, 1154 fms [2106 m]. Lectotype BMNH 1906.10.12.142-144 (designated by Scarabino 1995: 249, "the largest (63 mm) of the 3 syntypes in BMNH"); paralectotypes ZSI M3735/1. *Fissidentalium cornubovis* (E. A. Smith, 1906) (fide Scarabino 1995: 249). Indo-Pacific: Africa to New Caledonia. 2089-4350 m. Remark: the manuscript list of *Investigator* Exp. types in BMNH gives the holotype and 3 paratypes in ZSI M3735/1, and 3 paratypes BMNH 1906.10.12.142-144.
- cornucopiae*, *Entalina* Boissevain, 1906: 63, 64, pl. 6, fig. 89, text-fig. 30. Recent. Indonesia, *Siboga* stn 52, 09°03.4'S, 119°56.7'E, 959 m. Holotype ZMA 3.06.086. *Megaentalina cornucopiae* (Boissevain, 1906) (fide Habe 1963: 272). Indo-Pacific: Indonesia to Japan. 200-3250 m.
- † *corpulentus*, *Cadulus* Meyer, 1886: 66, pl. 3, fig. 5. Eocene. Red Bluff, Mississippi, USA. Syntype USNM Paleobiology 644579. *Cadulus* (*Polyschides*) *corpulentus* Meyer, 1886 (fide MacNeil & Dockery 1984: 249).
- corrugatum*, *Dentalium* Hupé in Gay, 1854: 276, pl. 2, fig. 8. Tertiary. Topocalma, Colchagua Province, Chile. Junior synonym of *Dentalium subgiganteum* d'Orbigny, 1852 (fide Pilsbry & Sharp 1898: 217).
- corrugatum*, *Dentalium* Carpenter, 1857: 189. Recent. Mazatlan [Mexico]. Holotype BMNH 1857.6.4. 881 (fide Keen 1968: 403, text-fig. 24). Junior homonym of *Dentalium corrugatum* Hupé in Gay, 1854. Replacement name: *Cadulus* (*Gadila*) *panamensis* Sharp & Pilsbry in Pilsbry & Sharp, 1898: 191, which is a junior synonym of *Gadila perpusilla* (Sowerby in Broderip & Sowerby, 1832) (fide Emerson 1971: 78).
- coruscum*, *Dentalium* (*Laevidentalium*) Pilsbry, 1905: 117, pl. 5, figs 42, 43. Recent. Heda, Izu, Japan, 167 fms [305 m]. Holotype ANSP 88320. *Laevidentalium coruscum* (Pilsbry, 1905) (fide Habe 1963: 268). Indo-Pacific: Indonesia to New Caledonia and Japan. 100-1890 m.
- † *cosmannianum*, *Dentalium* Pilsbry & Sharp, 1898a: 467, 468, pl. 10, fig. 1, pl. 11, figs 10, 11. Oligocene. Dominican Republic. Holotype ANSP 2709 (fide Pilsbry 1922: 399); paratypes ANSP 79475.
- † *costae*, *Dentalium* Pilsbry & Sharp, 1898: 202. Pliocene. Italy. Name for *Dentalium lacteum* sensu O. G. Costa 1851 non Deshayes, 1825. Remark: Pilsbry & Sharp erroneously attributed this name to "Deshayes, 1898".
- † *costaricensis*, *Dentalium* Pilsbry, 1911: 165, 166, fig. 3. Pliocene? Costa Rica. Holotype ANSP 3204; paratypes ANSP 78955 (2). Remark: as a *nomen nudum* in Pilsbry & Sharp (1898: 254).
- † *costatior*, *Dentalium* (*Entalis*) *miopseudoentalis* "?" var. Sacco, 1897: 106, pl. 9, figs 12, 13 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntypes MIGT BS.106.03.006-BS.106.03.007 (fide Ferrero Mortara et al. 1984: 306).
- † *costatum*, *Dentalium* J. Sowerby, 1814: 162, pl. 70, fig. 8. Pliocene. Holywell Craig, England, United Kingdom. Remarks: *Dentalium costatum* – Nyst (1845: 344, pl. 25, fig. 2; 1881: 121, pl. 7, fig. 15) was subsequently described as *D. dollfusi* Koenen, 1883; *D. costatum* – J. de C. Sowerby in Dixon (1850: 162, pl. 70, fig. 8) was subsequently described as *D. angustum* Deshayes, 1861 (fide Pilsbry & Sharp 1898: 198).
- † *costulatio*, *Dentalium* (*Antale* "?") *taurocostatum* var. Sacco, 1897: 101, pl. 8, fig. 55 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.02.047 (fide Ferrero Mortara et al. 1984: 304).
- † *costulatio*, *Dentalium michelotti* var. Sacco, 1897: 96, pl. 7, figs 93, 94 [as a *nomen nudum* in Sacco

- 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.01.042 (*vide* Ferrero Mortara *et al.* 1984: 303).
- † *costulatissima*, *Dentalium michelotti* var. Sacco, 1897: 96, pl. 7, figs 95, 96 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Castenuova d'Asti and Viale, Montafia, Italy. Syntypes MIGT BS.106.01.043, BS.106.01.044 (*vide* Ferrero Mortara *et al.* 1984: 303).
- † *crassulum*, *Dentalium* Stoliczka, 1868: 444, pl. 27, fig. 21. Cretaceous. Trichinopoly group. South of Serdamungalum, India.
- crassum*, *Dentalium* Salis Marschlins, 1793: 358 [citing Gualtieri 1742: pl. 10, fig H; Martini 1769: pl. 1, fig. 4]. Recent. Tarento [Italy]. Junior synonym of *Fissidentalium rectum* (Gmelin, 1791) (as Salis Marschlins cited the same figures as Gmelin).
- crassum*, *Dentalium* Deshayes, 1825. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *crebrestriata*, *Dentalium sexangulum* var. Coppi, 1881: 85 [original spelling *crebre striata*]. Pliocene. Bagalo and Niciola, Italy.
- crenatocinctum*, *Coleolus* Hall, 1879. Not a scaphopod. See Other taxa described as Scaphopoda. Remark: considered to be a *Dentalium* by Whitfield (1882).
- † *cretaceum*, *Dentalium* Conrad, 1852: 228, App. pl. 1, fig. 1. Cretaceous. Safed, Syria. Type material presumed lost (not found by Beecher 1900). Junior synonym: *Dentalium syriacum* Fraas, 1867 (*vide* Pilsbry & Sharp 1898: 221; Blanckenhorn 1927: 123).
- † *cretaustralium*, *Laevidentalium* Stilwell, 1999: 223, 224, figs 2, 3H-K. Cretaceous, Upper Albian? Coober Pedy, S[outh]. Australia. Holotype AMS F31169-1; paratypes AMS F31169-2, AMS F31169-2, JCU 11614.
- † *cristatus*, *Entalis* Mansuy, 1914: 52, pl. 7, fig. 17. Tertiary. Phnom Nien, near Sisophon, Cambodia. Remark: Hayasaka (1925: 24) stated that: "This cannot be an *Entalis* but is a *Dentalium*."
- crocea*, *Dentalium dentale* var. Dautzenberg, 1884: 302 [ex Monterosato MS; *nomen nudum* in Monterosato 1878: 76]. "Coste de Barbaria" [= North Africa]. Recent. Mediterranean Sea: Gulf of Gabes, Tunisia. Synonym of *Antalis dentalis* (Linnaeus, 1758). Remark: Dautzenberg appears to be the first author to have validated Monterosato's 1878 *nomen nudum*.
- crocinum*, *Dentalium* Dall, 1907: 169. Recent. Gulf of Tokio, Japan, USFC stn 5094, 35°04.42'N, 139°38.20'E, 88 fms [162 m]. Holotype USNM 110508. *Calliodentalium crocinum* (Dall, 1907) (*vide* Habe 1964: 31). Indo-Pacific: Indonesia to Japan and Australia. 27-1200 m.
- crosnieri*, *Dentalium* Scarabino, 1995: 211, 212, figs 18, 28b. Recent. New Caledonia, Loyalty Islands, RV *Alis*, MUSORSTOM 6, stn DW428, 20°24'S, 166°13'E, 420 m. Holotype MNHN and 7 paratypes (3 from stn MUSORSTOM 6, stn DW 428; 1 from BIOGEOCAL, stn DW 292; 2 from stn MUSORSTOM 6, stn DW 459; 1 from stn MUSORSTOM 6, stn DW 487). *Dentalium crosnieri* Scarabino, 1995. Indo-Pacific: New Caledonia. 420-500m.
- crosnieri*, *Fustiaria (Laevidentalium)* Nicklès, 1979: 60, figs 15, pl. 1, fig. III. Recent. Vridi, Côte d'Ivoire, 20 m. Holotype and 4 paratypes MNHN. *Fustiaria crosnieri* Nicklès, 1979. Eastern Atlantic: Africa, Côte d'Ivoire. 19-20 m.
- † *crox*, *Dentalium* "?" Keyserling, 1847: 228, pl. 1, figs 8, 8a. Devonian. Inä [Lake Baikal region], Siberia, Russia.
- † *crux*, *Dentalium (Antale)* Boettger, 1907: 210. Miocene. Valea Semini, Valea Casilor, Parau Ungurului, and Parau Lui, Kosteji, Romania. Lectotype SMF XIII.2a (selected by Zilch 1934: 279, pl. 22, fig. 29). *Dentalium (Antalis) crux* Boettger, 1907 (*vide* Zilch 1934: 279). Remark: Hörnes (1856) misidentified this species as *Dentalium pseudoentalis* Lamarck, 1818.
- cubcanaliculatum*, see *subcanaliculatum*.
- † *cucumis*, *Cadulus* Koenen, 1892: 990, 991, pl. 59, figs 21, 22. Lower Oligocene. Atzendorf and Unseburg, Germany.
- cucurbitus*, *Cadulus* Dall, 1881: 35. Recent. Off Bahia Honda, Cuba, Blake stn 19, 23°03'N, 83°10.30'W, 310 fms [567 m]. Holotype MCZ 7750. *Cadulus cucurbitus* Dall, 1881. Western Atlantic, Caribbean. 566 m.
- curtum*, *Dentalium* Sowerby, 1860: 100, pl. 225, fig. 62. Recent. Type locality not designated. Type material not located. *Dentalium curtum* Sowerby, 1860. Western Atlantic, Caribbean.
- curtus*, *Cadulus* Watson, 1879: 527 [Watson 1886: 21, pl. 3, fig. 7]. Recent. *Challenger* stn 24, off Culebra Island [Virgin Is.], St Thomas, 18°38.30'N, 65°05.30'W, 390 fms [712 m]. Syntypes BMNH 1994042 (5). *Cadulus curtus* Watson, 1879. Western Atlantic, Caribbean. 300-712 m.
- curvotracheatum*, *Dentalium (Plagioglypta)* Plate, 1908a: 358, pl. 30, fig. 47. Recent. Zanzibar Channel, Valdivia stn 245, 5°27.9'S, 39°18.8'E, 463 m. Holotype ZMB 61086. Junior synonym of *Calliodentalium semitracheatum* (Boissevain, 1906) (*vide* Scarabino 1995: 273).
- † *curvum*, *Siphodentalium* [sic] Gardner, 1878: 63, pl. 3, figs 45-47. Cretaceous, Gaultian. Folkestone and Sevenoaks (Atherfield beds), England, United Kingdom. *Entalina curva* (Gardner, 1878) (*vide* Pilsbry & Sharp 1898: 234).
- † *curvus*, *Cadulus (Gadila)* Hodgkinson, 1974: 12, 15, text-fig. 8z-aa; pl. 1, figs 12-14. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Little Brazos Bluff, Brazos River Valley, Brazos County, Texas, USA. Holotype USNM Paleobiology 180437; paratypes USNM Paleobiology 180436, PRI 29223, ANSP 31501 (all from Little Brazos Bluff), USNM 180438 (Stone City Bluff).

- cuspidatus*, *Cadulus (Polyschides)* Nicklès, 1979: 73, fig. 30. Recent. Bay of Saloum, Senegal, 50 m. Holotype and 36 paratypes MNHN. *Polyschides cuspidatus* (Nicklès, 1979). Eastern Atlantic: Africa, Senegal. 50 m.
- cyathoides*, *Cadulus (Cadulus)* Jaeckel, 1932: 308, fig. 5. Recent. Padang Islands, Sumatra, *Valdivia* stn 191, 0°39.2'S, 98°52.3'E, 750 m. Lectotype ZMB 75361a (designated by Kilias 1995: 174); paralectotypes ZMB 76361b-75362, ZMB 75363 (stn 211, Nicobar Islands, 7°48.8'N, 93°7.6'E, 805 m). *Cadulus cyathoides* Jaeckel, 1932. Indo-Pacific: Africa to Philippines, Red Sea(?). 10-2050 m.
- † *cyathus*, *Creseis* Cristofori & Jan, 1832: 1. Pliocene. Italy. *Cadulus cyathus* (Cristofori & Jan, 1832) (*fide* Pilsbry & Sharp 1898: 157, 158, pl. 32, figs 36-39). Remark: Di Geronimo & La Perna (1997: 417) concluded that *Cadulus attenuatus* Monterosato, 1875 was a valid species and not a junior synonym of *C. cyathus*, as stated by previous authors.
- cylindraceum*, *Dentalium* O. G. Costa, 1851. Not a scaphopod. See Other taxa described as Scaphopoda.
- cylindratus*, *Cadulus* Jeffreys, 1877: 158. Recent. Type locality not specified. Syntypes USNM 169479 (1; *Valorous* stn 12, 56°11'N, 37°41'W, 1450 fms [2646 m]), USNM 169480 (1; *Porcupine* 1869 stn 31, 56°15'N, 11°25'W, 1360 fms [2482 m]), USNM 169481 (1; *Porcupine* 1869 stn 30, 54°24'N, 11°49'W, 1380 fms [2519 m]), USNM 169482 (1; *Porcupine* 1869 stn 20, 55°11'N, 11°31'W, 1443 fms [2633 m]), BMNH 85.11.5.1284-1285 (*Porcupine*, no locality). *Cadulus cylindratus* Jeffreys, 1877. Eastern Atlantic: Norwegian Basin to Bay of Biscay and Azores; Western Atlantic: Massachusetts (USA). 1200-3000 m.
- cylindrica*, *Hensonella* Elliott, 1960. Not a scaphopod. See Other taxa described as Scaphopoda.
- cylindricum*, *Dentalium* J. Sowerby, 1814. Not a scaphopod. See Other taxa described as Scaphopoda. Remarks: *Dentalium cylindricum* – Roemer 1836 is *Laevidentalium elongatum* (Goldfuss, 1841) (*fide* Engeser & Riedel 1992: 37); *Dentalium cylindricum* – Fischer de Waldheim 1843 is *Dentalium gladiolus* Eichwald, 1846 (*fide* Pilsbry & Sharp 1898: 223).
- cylindricum*, *Dentalium* – Gardner 1878: 61, pl. 3, figs 21-25 non J. Sowerby, 1814. Cretaceous. Blackdown, England, United Kingdom. Remarks: Gardner (1878: 61) recognized that Sowerby's species was actually a *Ditrupa* (Polychaeta), but Gardner then used Sowerby's name for a scaphopod: "I have here transferred the name to the Blackdown fossils, as it has been for a long time almost universally applied to them." Replacement name: *Dentalium subplanum* Pilsbry & Sharp, 1898.
- † *cylindricus*, *Cadulus* R. Janssen, 1989: 88, pl. 2, fig. 16. Middle Oligocene, Rupelian, Boom Clay Formation. Kruibeke, East Flanders, Belgium. Holotype RGM 221002a; paratype RGM 221002b.
- † *cyrtoceratoides*, *Entalis* de Koninck, 1883: 216, pl. 49, figs 13-15. Carboniferous. Visé, Belgium. *Dentalium cyrtoceratoides* (de Koninck, 1883) (*fide* Pilsbry & Sharp 1898: 230).
- † *cyrtoceroides*, *Dentalium* Broili, 1907: 71, pl. 6, fig. 3. Triassic, Carnian. Seiser Alp, Tirol, Austria.
- dacostianum*, *Dentalium* Chenu, 1843: pl. 6, fig. 33; 1850: 3. Recent. No information on habitat and type material. *Dentalium dacostianum* Chenu, 1843. Remark: Pilsbry & Sharp (1897: 61) considered this a doubtful species, although they listed it as valid.
- dalli*, *Cadulus (Polyschides)* Pilsbry & Sharp, 1898: 155, 156, pl. 30, figs 19-23. Recent. West coast of Patagonia [Chile] USFC stn 2783, 51°02'30"S, 74°08'30"W, 122 fms [223 m], and USFC stn 2784, 48°41'S, 74°24'W, 194 fms [354 m]. Syntypes USNM 602253 (2, stn 2784), USNM 122746 (1, stn 2784; in error as USNM 123736 in original description), SBMNH 35039 (1, stn 2783), AMNH 148395 (3). *Siphonodentalium dalli* (Pilsbry & Sharp, 1898) (*fide* Steiner & Linse 2000: 21-25). Southern Atlantic, Antarctica. 93-695 m. Remark: Although Pilsbry & Sharp (1898: 156) specified two type lots, they also mentioned "Magellan Strait, 369 fms [673 m]" which is not part of the type series.
- dalli*, *Dentalium (Rhabdus)* Pilsbry & Sharp, 1897: 114, 115, pl. 21, fig. 46. Recent. Santa Barbara Channel, north of Santa Rosa Island, USFC stn 3200, 34°15'N, 120°14'30"W, 265 fms [485 m]. Syntypes USNM 107696, USNM 599443, LACM 1756 (1, as paratype), SBMNH 35040. *Rhabdus dalli* (Pilsbry & Sharp, 1897). Eastern Pacific: California to Chile. 360-1205 m. Remark: Shimek (1998: 83) synonymized this species with *Rhabdus rectius*. However, it remains to be determined whether the specimens reported from the type locality southwards to Chile are correctly referred to this species, which was described from the northeastern Pacific.
- † *danai*, *Dentalium* Meyer, 1885: 462; 1886: 64, pl. 3, figs 2, 2a. Eocene. Jackson, Mississippi, USA. Syntype USNM Paleobiology 638703 (as "holotype" in Palmer & Brann 1965: 371). *Fustiaria (Laevidentalium) danai* (Meyer, 1885) (*fide* Palmer & Brann 1965: 371).
- † *danvillense*, *Dentalium (Antalis)* Palmer, 1947: 210-212, pl. 26, figs 23-27. Eocene, Jackson Formation. Louisiana, USA. Holotype PRI 4472; paratypes PRI 4473-4476.
- dartevellei*, *Cadulus (Dischides)* Nicklès, 1979: 72, fig. 28. Recent. Malembe Beach (Zaire) [Congo]. Holotype MRAC 792481. *Dischides dartevellei* (Nicklès, 1979). Known from the type locality only.
- † *davasense*, *Dentalium (Entalis)* Oppenheim, 1919: 55, pl. 2, figs 4, 4b. Miocene. Kaleh-Davas, Turkey.

- decemcostata*, *Dentalium* (*Antale*) *novemcostatum* var. Sacco, 1896: 97. *Nomen nudum*. Remark: subsequently described as *Dentalium* (*Antale*) *novemcostatum* var. *decemcostulata* Sacco, 1897.
- † *decemcostata*, *Dentalium* (*Entalis*) *taurostriata* var. Sacco, 1897: 109, pl. 9, fig. 56 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.03.031 (*vide* Ferrero Mortara *et al.* 1984: 308).
- decemcostatum*, *Dentalium antverpiense* “*forma*” Goddeeris, 1978: 72. Miocene. Belgium. *Nomen nudum*. Remark: this is also an unavailable infrasub-specific name (ICZN 1999: articles 45.5 and 45.6.3).
- decemcostatum*, *Dentalium* Brazier, 1877: 55. Recent. Katow, New Guinea, 8 fms [15 m]. Lectotype AMS A90 (designated by Lamprell & Healy 1998: 34); paralectotype AMS C308152. *Dentalium decemcostatum* Brazier, 1877. Indo-Pacific: New Guinea and Australia. 2-271 m.
- † *decemcostatum*, *Dentalium* Quaas, 1902: 233, 234, pl. 25, figs 19-21. Cretaceous. Overwegischichten, Ammonitenberge, Libya. Junior homonym of *Dentalium decemcostatum* Brazier, 1877. Remark: we prefer not to rename this junior homonym until its species status and systematics are better documented.
- † *decemcostulata*, *Dentalium* (*Antale*) *novemcostatum* var. Sacco, 1897: 103, pl. 8, fig. 65. Pliocene. Villaveria, Bordighera and Astigiana, Italy. Syntype MIGT BS.106.02.057 (*vide* Ferrero Mortara *et al.* 1984: 305).
- † *decoratum*, *Dentalium* Goldfuss, 1841: 3, pl. 166, fig. 9 [ex Münster MS]. Triassic. St Cassian, Tirol, Austria/Italy. Remark: also cited in Wissmann 1841: 91, pl. 9, fig. 7.
- decurtata*, *Dentalium vulgare* var. Monterosato, 1884: 32. *Nomen nudum*. Recent. Mediterranean.
- † *decussatum*, *Dentalium* J. Sowerby, 1814: 161, pl. 70, fig. 5. Cretaceous. Sussex, England, United Kingdom. Junior synonyms: *Dentalium ellipticum* J. Sowerby, 1814 (*vide* Gardner 1878: 58, First Reviser according to ICZN 1999: article 24); *Dentalium nutans* Kner, 1852 (*vide* Pilsbry & Sharp 1898: 221); *Dentalium bicostale* Ryckholt, 1851 (tentatively, *vide* Ryckholt 1851).
- deforgesii*, *Dentalium* Scarabino, 1995: 213, 214, figs 20, 28d, 71a, b. Recent. South of New Caledonia, RV *Coriolis*, CHALCAL 2, stn DW 73, 24°40'S, 168°38'E, 573 m. Holotype MNHN and 6 paratypes (2 from CHALCAL 2, stn DW 73; 4 from CHALCAL 2, stn 1146). *Dentalium deforgesii* Scarabino, 1995. Indo-Pacific, New Caledonia. 185-575 m.
- deforme*, *Dentalium* Lamarck, 1818. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *defrancii*, *Dentalium* Deshayes, 1861: 211, pl. 2, figs 14-16. Eocene. Paris Basin (Le Guépelle, Ermenonville and Montagny), France. Remark: a valid species of *Dentalium* (*Entaliopsis*) (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- † *degrangei*, *Dentalium* (*Antale*) Cossmann & Peyrot, 1917: 163-165, pl. 1, figs 19-22. Miocene, Helvetian. Orthez (Le Paren), Sallespisse and Saint-Étienne-d'Orthe, France.
- † *degrangei*, *Gadila* (*Loxoporus*) Cossmann & Peyrot, 1917: 184, pl. 2, figs 14, 15. Miocene, Helvetian. Saint-Étienne-d'Orthe, France.
- † *dehmi*, *Dentalium* Kuhn, 1935: 127, pl. 8, fig. 7a-c. Jurassic, Dogger. Forth, Bavaria, Germany.
- † *dejtarensis*, *Dentalium densitextum* var. Báldi, 1973: 337, pl. 50, fig. 9. Upper Oligocene. Dejtár, Hungary.
- † *dekgonum*, *Dentalium* Koenen, 1892: 984-986, pl. 59, fig. 2. Lower Oligocene. Lattorf and Mühlingen, Germany.
- delesserti*, *Entalis* Chenu, 1859: 374, fig. 2804. Unjustified emendation of *Dentalium delessertianum* Chenu, 1843 (*vide* Pilsbry & Sharp 1897: 82). Remarks: *Dentalium delesserti* sensu de Stefani (1884: 236) from the Tertiary of Italy is *Dentalium rectum* var. *monterosatoi* Pilsbry & Sharp, 1898. Pilsbry & Sharp (1898: 214) established the variety *monterosatoi* as a replacement name for *Dentalium philippi* Monterosato, 1872 *non* Chenu, 1843.
- delessertianum*, *Dentalium* Chenu, 1843: pl. 6, fig. 10; 1850: 3. Type locality not designated (“Fossile de ?”). Type material not located. Junior synonym of *Fissidentalium rectum* (Gmelin, 1791), Pliocene of Italy (*vide* Pilsbry & Sharp 1898: 213; *vide* Caprotti 1979: 223). Remark: oldest available name for *Dentalium striatum* Lamarck, 1818 *non* Born, 1790 (*vide* Bellini 1909: 228).
- delicatulus*, *Cadulus* (*Gadila*) Suter, 1913: 823; 1915: pl. 32, fig. 7. Recent. Milford Sound [New Zealand], 100-120 fms [183-219 m]. Holotype NZGS TM1220; paratype NZGS TM1221 (*vide* Boreham 1959: 75). *Cadulus delicatulus* Suter, 1913. New Zealand. 20-602 m. Remark: Scarabino (1995: 333) tentatively referred this species to *Siphonodentalium*.
- † *delli*, *Cadulus* Marwick, 1965: 47, pl. 10, figs 17, 18. Late Pliocene, Nukumaruan. NZGS locality GS 2818, railway tunnel, Waihua River, New Zealand. Holotype NZGS TM3772 (locality GS 2818); paratype NZGS TM3771 (NZGS locality GS1409). *Striocadulus delli* (Marwick, 1965) (*vide* Beu & Maxwell 1990: 424).
- † *delphinense*, *Dentalium* Fontannes, 1880: 10; 1882: 227-229, pl. 12, figs 3-5. Pliocene. Fay-d'Albon (Drôme), France. Remark: Fontannes (1882: 228) recorded this species from a number of additional localities in southeastern France.
- demersum*, *Dentalium* Pilsbry, 1927: 142. Upper Cretaceous, Ripley Formation. Dave Weeks property on Coon Creek, McNairy County, Tennessee, USA. Type material USNM Paleobiology 32821. Replacement name for *Dentalium inornatum* Wade,

- 1926, a junior homonym of *Dentalium inornatum* McCoy in Griffith, 1844. Junior synonym of *Dentalium leve* Stephenson, 1923 (*vide* Stephenson 1941: 253, 254).
- denacta*, *Dentalium* Perry, 1811: caption to pl. 52. Recent. "Eastern Ocean". *Nomen dubium*. No information on type material.
- † *denotatum*, *Dentalium* (*Antalis*) Ludbrook, 1956: 3, 4, pl. 1, figs 7-9. Pliocene. Abbatoirs Bore and Dry Creek Sands, South Australia. Holotype SAM F 15140; 14 paratypes SAM. Remark: Ludbrook (1941: 101) misidentified this species as *Dentalium bifrons* Tate, 1887.
- densatum*, *Dentalium* Conrad, 1865: 212, pl. 20, fig. 15. Eocene. Type locality not given in original description. Junior synonym of *Dentalium mississippiense* Conrad, 1848 (*vide* Pilsbry & Sharp 1898: 209).
- denseliratum*, *Antalis* Pilsbry & Sharp, 1898: 250 [*ex* Carpenter MS]. Recent. Eastern Pacific: San Pedro, California, USA. Holotype USNM 19463. Junior synonym of *Antalis pretiosa* (Sowerby, 1860) (*vide* Pilsbry & Sharp 1897: 45; 1898: 250). Remarks: Pilsbry & Sharp were the first to publish this manuscript name: "There is also a museum name afloat '*Antalis denseliratum* Cpr.' for young *indianorum* with a distinct slit on the convex side. One such in U.S. Nat. Mus. from San Pedro (No. 19.463), is 19 mill. long, 2.9 wide at aperture". This name appears to have been overlooked in the subsequent literature. Pursuant to ICZN (1999) article 11.6, this name is considered to have been published in synonymy of *Dentalium indianorum* Carpenter, 1864, hence not an available name.
- † *densitexta*, *Dentalium* *haeringense* var. Noszky, 1940: 51, 73. Lower Oligocene, Rupelian. Budapest district, Hungary. Remark: Baldi (1973: 337) treated this taxon as a full species.
- † *densmuris*, *Dentalium* Mayer, 1858: 79, 80, pl. 4, fig. 3 [original spelling: *dens muris*]. Miocene. Saint-Jean-de-Marsacq, France. *Dentalium densmuris* Mayer, 1858 (*vide* Pilsbry & Sharp 1898: 202).
- dentale*, *Dentalium* Conrad, 1845: 78, pl. 44, fig. 9. Recent and Tertiary. North Atlantic. Junior synonym of *Dentalium attenuatum* Say, 1824 (*vide* Pilsbry & Sharp 1898: 199). Remark: Conrad (1845), in the plate caption, stated that: "*Dentalium dentale* Conr. not Lin.; p. 78. It is *D. attenuatum* Say".
- † *dentalina*, *Ditrupa* Guppy, 1873: 87, 88, pl. 1, fig. 11 (description); 1874: 444, 445, pl. 16, fig. 11 (name and figure only); 1875: 42 (description). Miocene. Jamaica. Syntypes USNM Paleobiology 115607 (figured specimen), USNM Paleobiology 646435 (2). Described as a serpulid polychaete but in reality a scaphopod. Junior synonyms: *Cadulus* (*Gadila*) *spiniformis* Gardner, 1947; *Cadulus hendersoni* Woodring, 1925 (*vide* Woodring 1973: 487). *Gadilopsis dentalina* (Guppy, 1873) (*vide* Woodring 1925: 206, 207, as *Cadulus* (*Gadilopsis*) *dentalinus*).
- dentalis*, *Dentalium* Linnaeus, 1758: 785 [citing Rumphius 1705: t. 41, f. 6]. Recent. Mediterranean. Syntypes LS 612, ZMUU 924, ZMUU 1011a-b. Junior synonyms: *Dentalium linnaeanum* Locard, 1887 (145, footnote [incorrectly proposed replacement name to avoid tautonymy]); *Dentalium simile* Biondi Giunti, 1859 (*vide* Pilsbry & Sharp 1897: 53). *Antalis dentalis* (Linnaeus, 1758) (*vide* Pilsbry & Sharp 1897: 53). Eastern Atlantic, Mediterranean. 0-300 m.
- † *dentaloideum*, *Orthoceras* Phillips, 1836: 239, pl. 21, fig. 12. Carboniferous. Bolland, Yorkshire, England. *Dentalium? dentaloideum* (Phillips, 1836) (*vide* Pilsbry & Sharp 1898: 230). Remark: Pilsbry & Sharp (1898: 230) stated that this was "a doubtful *Dentalium*. L.-G. de Koninck considers it equally likely to be a *Cyrtoceras* [Cephalopoda]".
- † *denticulatum*, *Dentalium* Deshayes, 1850: 36, pl. 61, figs 13, 15, 16. Fossil. Locality not specified. Junior synonym: *Gadus parisiensis* Deshayes, 1861 (*vide* Pilsbry & Sharp 1898: 238). *Polyschides denticulatum* (Deshayes, 1850) (*vide* Pilsbry & Sharp 1898: 238). Remark: Pilsbry & Sharp (1898: 238) erroneously dated this name to "1864" and they therefore listed it as a junior synonym of *Polyschides parisiensis* (Deshayes, 1861).
- † *denticulustigris*, *Cadulus* Maury, 1917: 324 [160], pl. 52 [26], fig. 7 [original spelling: *denticulus-tigris*]. Miocene. Rio Gurabo at Los Quemados, Dominican Republic. *Cadulus denticulustigris* Maury, 1917.
- † *depressicollis*, *Cadulus* Pilsbry & Sharp, 1898a: 473, 474, pl. 11, figs 25-27. Oligocene. Dominican Republic. Type material ANSP 2884 (*vide* Pilsbry 1922: 401).
- † *depressum*, *Laevidentalium* Pavia, 1991: 126-128, pl. 6, figs 1-5. Upper Miocene. Borelli, near Turin, Italy. Holotype and 12 paratypes MIGT BS.D.08.1.
- † *depressus*, *Cadulus* Meyer, 1884: 111, text-fig. Eocene. Claiborne, Alabama, USA. Syntype USNM Paleobiology 638695.
- † *dertornensis*, *Dentalium* (*Entalis*) *recta* var. Sacco, 1897: 110, pl. 10, figs 4, 5 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. San Agata, Italy. Syntypes MIGT BS.106.03.035, BS.106.03.036 (*vide* Ferrero Mortara *et al.* 1984: 308).
- desaintlaurentae*, *Gadila* Scarabino, 1995: 361, 362, figs 166, 169f. Recent. Philippines, RV *Coriolis* MUSORSTOM 2, stn DR33, 13°32'N, 121°07'E, 130-137 m. Holotype MNHN; paratypes MNHN (8), AMS C201734, USNM 890855. *Gadila desaintlaurentae* Scarabino, 1995. Indo-Pacific: Philippines to New Caledonia. 137-250 m.
- † *deshayesi*, *Dentalium* Risso, 1826b: 400. Tertiary. La Trinité and Saint-Jean, France. Type material presumed lost (*vide* Arnaud 1978: 114). Remark: Risso's manuscript figure of this species was published by Arnaud (1978: pl. 10, fig. 169).

- deshayesianum*, *Dentalium* Galeotti, 1837. Not a scaphopod. See Other taxa described as Scaphopoda.
- deshayesii*, *Dentalium* Cocconi, 1874: 644, 645, pl. 6, fig. 17 [ex Guidotti MS]. Pliocene. Rivalta, Piacenza, Italy. Junior homonym of *Dentalium deshayesi* Risso, 1826. Replacement name: *Dentalium guidotti* Sacco, 1897.
- desmoulini*, *Dentalium* (s.s.) Le Renard, 1994: 39. Replacement name for *Dentalium affine* Deshayes, 1861, a junior homonym of *Dentalium affine* Biondi, 1859. An objective junior synonym of *Dentalium xiphias* Pilsbry & Sharp, 1898.
- diarrhox*, *Dentalium* Watson, 1879: 511, 512 [Watson 1886: 4, pl. 1, fig. 5]. Recent. 400 miles NE of New Zealand, *Challenger* stn 169, 37°34'S, 179°22'E, 700 fms [1260 m]. Syntype BMNH 1887.2.9.13. *Antalis diarrhox* (Watson, 1879) (fide Scarabino 1995: 236). Indo-Pacific: New Zealand. 401-1260 m. Remark: this species was described from four specimens but only one is in BMNH. Scarabino (1995: 236) cited BMNH 1887.2.9.65 in error.
- † *diazicum*, *Dentalium* Maury, 1920: 46, 47, pl. 7, fig. 1. Tertiary. Maury Station 185, near Juana Diaz, Puerto Rico.
- dichelum*, *Siphodentalium* Watson, 1879: 521 [Watson 1886: 15, pl. 2, fig. 7]. Recent. Levuka Island, Fiji Islands, 12 fms [22 m]. Syntype BMNH 1887.2.9.65. *Dischides dichelum* (Watson, 1879) (fide Pilsbry & Sharp 1898: 145; as *Cadulus (Dischides) dichelum*; fide Scarabino 1995: 340). Indo-Pacific: from Red Sea and Africa to Fiji Islands. 22-1295 m. Remark: the two fragments listed in the original description were not located.
- didymum*, *Dentalium* Watson, 1879: 517 [Watson 1886: 10, pl. 1, fig. 11]. Recent. Off Culebra Island, *Challenger* stn 24, 18°38'30"N, 65°5'30"W, 390 fms [712 m]. Syntypes BMNH 1887.2.9.43-44, BMNH without reg. No. (*Challenger* Acc.no. 2284, 2 possible syntypes). Junior synonym: *Dentalium (Episiphon) johnsoni* Emerson, 1952 (fide Scarabino 1975: 186). *Episiphon didymum* (Watson, 1879) (fide Scarabino 1994: 308). Western Atlantic: Caribbean to Brazil. 2-740 m.
- difforme*, *Dentalium* J. de C. Sowerby in Dixon, 1850. Not a scaphopod. See Other taxa described as Scaphopoda.
- diffusum*, *Dentalium* Chenu, 1843: pl. 6, figs 11, 12; 1850: 3. "Fossil" [type locality not specified]. Junior synonym of *Graptacme secta* (Deshayes, 1825) (fide Pilsbry & Sharp 1897: 96).
- † *dijki*, *Dentalium* Martin, 1885: 186, 187, pl. 10, figs 184, 185; 1887: 186, 187, pl. 10, figs 184, 185. Miocene. Fatu Lulih, Fialarang, Timor; Grisee and Ngembak, Java, Indonesia. Syntype RGM 7243 (fide Van den Hoek Ostende *et al.* 2002: 111, who noted that the description encompassed 15 specimens; evidently the remainder could not be located).
- † *dilatatum*, *Dentalium* Philippi, 1887a: 105, pl. 12, fig. 13; 1887b: 99, pl. 12, fig. 13. Cretaceous. Tumbes, Chile.
- † *dilatatum*, *Pulsellum* Cossmann, 1888: 11, pl. 1, fig. 21. Eocene. Near Soissons, France. *Siphonodentalium dilatatum* (Cossmann, 1888) (fide Pilsbry & Sharp 1898: 234). Remark: a valid species of *Pulsellum* (fide Le Renard 1995: 175; Le Renard & Pacaud 1995: 86).
- † *dingdenensis*, *Cadulus (Gadila)* Goddeeris, 1977: 160, 161, fig. 4. Miocene. Dingden-Königsmühle, Germany. Holotype KBINW 5863.
- † *diopon*, *Dentalium (Antalis)* Gardner, 1947: 626, pl. 57, figs 23-23a. Oligocene. Alum Bluff Group, Shoal River Formation. USGS locality 3856, 6 miles NNW of Mossyhead, Walton County, Florida, USA. Two syntypes USNM Paleobiology 498398.
- † *diploconus*, *Cadulus* Seguenza, 1876: 266; 1879: 276. Pliocene. Messina, Italy. Remark: this species was erroneously attributed to "Seguenza, 1880" by Pilsbry & Sharp (1898: 236).
- dipsycha*, *Dentalium (Dentalium)* Pilsbry & Sharp, 1897: 33, 34, pl. 4, figs 57-60. Recent. Type locality unknown. Holotype ANSP 45468. Junior synonym of *Tesseracme quadruplicalis* (Hanley in Sowerby, 1860) (fide Scarabino 1995: 222).
- discrepans*, *Dentalium* Risso, 1826a: 125. Fossil. Near Nice, France. *Nomen nudum*.
- dispar*, *Dentalium* Sowerby, 1860: 103, pl. 224, fig. 37. Recent. Singapore and Samar Island, Philippines. Syntypes BMNH 1993007 (Samar Island, 4 fms [7 m]), BMNH 1993008 (Singapore, 6 fms [11 m]). *Tesseracme dispar* (Sowerby, 1860) (fide Habe & Kosuge 1964: 5). Indo-Pacific. 0-54 m.
- dispar*, *Dentalium* Cocconi, 1874: 650, pl. 6, figs 20-22. Miocene. Castell'Arquato and Majatico, Italy. Junior homonym of *Dentalium dispar* Sowerby, 1860. Replacement name: *Dentalium (Pseudantalis) rubescens* var. *exdispar* Sacco, 1897. Remark: *Dentalium cocconii* Sharp & Pilsbry, 1897 is an objective junior synonym of *Dentalium rubescens* var. *exdispar*, as it was also introduced as a replacement name later in the same year (fide Pilsbry & Sharp 1898: 214).
- disparile*, *Dentalium* d'Orbigny, 1853: 202, pl. 25, figs 14-17. Recent. Martinique. Syntypes BMNH 1854.10.4.465. *Antalis disparile* (d'Orbigny, 1853) (fide Pilsbry & Sharp 1897: 56). Western Atlantic, Caribbean to Santa Catarina, Brazil. 5-103 m.
- † *dissimile*, *Dentalium* Guppy, 1866: 292, pl. 17, fig. 4. Miocene ("Oligocene"), Bowden Formation. Bowden, Jamaica. Holotype BMNH (Palaeontology) 64082. *Tesseracme dissimilis* (Guppy, 1866) (fide Woodring 1973: 483). Remark: *Dentalium ponderosum* Gabb, 1873 was considered a variety of *Tesseracme dissimilis* by Pilsbry & Sharp (1898a: 470).
- divae*, *Cadulus* Vélain, 1877: 128, 129, pl. 5, figs 1, 2. Recent. Island of St Paul [South Indian Ocean],

- 38°S, 75°E, 90 m. Holotype MNHN. *Gadila divae* (Vélain, 1877) (*vide* Pilsbry & Sharp 1898: 188). Known from type locality only.
- † *divisiense*, *Dentalium* Gardner, 1878: 60, pl. 3, fig. 15. Cretaceous, Upper Greensand. Devizes, United Kingdom.
- † *divulgatum*, *Dentalium* (*Dentalium*) Jung, 1969: 313, 314, pl. 13, figs 1, 2. Miocene, Springvale Formation. Melajo River area, Trinidad, West Indies. Holotype NMB G-12718; paratypes USNM Paleobiology (5; without catalog number). Remark: also recorded from numerous other stations in Trinidad.
- † *dodecacostatum*, *Antalis* Brunet, 1995: 54, pl. 5, fig. 9. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-083.
- † *dolichus*, *Cadulus* (*Gadilopsis*) Woodring, 1973: 486, pl. 70, fig. 7. Late Eocene, Bohio(?) Formation. USGS locality 18839, east side of Palenquilla Point, SW of Corozo Island, Canal Zone, Panama. Holotype USNM Paleobiology 646689.
- † *dollfusi*, *Dentalium* Koenen, 1883: 326, 327. Miocene. Germany and Belgium. No information on type material. Name introduced for “*Dentalium costatum* Nyst, 1880”, a junior homonym, or a misapplication, of *Dentalium costatum* J. Sowerby, 1814. Remarks: Pilsbry & Sharp (1898: 203) questioned the validity of this species: “Koenen states that this is not the *costatum* of Sowerby; but it is doubtful whether he had the real *costatum* of Nyst. The species *dollfusi* rests therefore upon Koenen’s description only.
- dollfusi*, *Dentalium* Cossmann, 1899a: 137. Recent. Roussillon [Gulf of Lion], Mediterranean Sea. Replacement name for *Dentalium alternans* Bucquoy, Dautzenberg & Dollfus, 1882, a junior homonym of *Dentalium alternans* Chenu, 1843. An objective junior synonym of *Dentalium inaequicostatum* Dautzenberg, 1891 (*vide* Cossmann 1900: 186). A junior homonym of *Dentalium dollfusi* Koenen, 1883. *Antalis inaequicostata* (Dautzenberg, 1891).
- dominguense*, *Cadulus* d’Orbigny, 1853: 201, pl. 25, figs 7-9. Recent. Saint-Domingue [Dominican Republic]; Martinique; Saint-Thomas; Cuba. Syntypes BMNH 1854.10.4.466 (Saint-Domingue). *Gadila dominguensis* (d’Orbigny, 1853) (*vide* Pilsbry & Sharp 1898: 191). Western Atlantic: Caribbean to Brazil. 33-110 m. remark: doubtful records from the West African coast by Nicklés (1955: 100; 1979: 64).
- dorsicostata*, *Entalina* Lamprell & Healy, 1998: 138, 139, figs 141B, 142C, D, 144. Recent. Off Cairns, northern Queensland, Australia, 17°50.67’S, 147°18.2’E, 703 m. Holotype QM MO17729; paratypes QM MO40069 (1), QM MO17756 (1; northern Queensland, 17°33’S, 146°55’E), AMS C169774 (6; 80 km SW of Cape Martin, South Australia, 37°50’-37°55’S, 139°15’-139°25’E, 1555 m), AMS C169795 (30; 48 km south of Cape Nelson, Victoria, 2000 m), AMS C169989 (3; off Woollongong, New South Wales, 34°27’-26’S, 151°27’E, 1200 m), AMS C169796 (1; east of Sandy Cape, Queensland, 24°43.5’-8’S, 153°33.4’-33.3’E, 604 m). *Entalina dorsicostata* Lamprell & Healy, 1998. Indo-Pacific, Australia. 153-2000 m.
- doumenci*, *Gadila* Scarabino, 1995: 360, 361, figs 165, 169a. Recent. N Mozambique Channel, Banc du Geyser, BENTHEDI stn DS11, 12°16.3’S, 46°42.2’E, 2300-2450 m. Holotype MNHN and 3 paratypes (1 from stn DS103; 2 from BENTHEDI stn DS40). *Gadila doumenci* Scarabino, 1995. Indo-Pacific: Madagascar to New Caledonia. 100-2700 m.
- duartei*, *Wemersoniella* Scarabino, 1986a: 5, figs 6-11, 17-21. Recent. Cuenca Argentina, *Vema* stn V-17-80, 43°58’S, 52°09’W, 5781 m. Holotype AMNH 202770; paratypes AMNH 202771, 202772 (stn V-17-81, 5332 m), MCZ 293962, MHNM 14760, 14761, MNHN. *Wemersoniella duartei* Scarabino, 1986. Western Atlantic: Puerto Rico to Brazil. 5332-5781 m.
- † *dufresnii*, *Dentalium* Deshayes, 1825: 361, 362, pl. 17, fig. 18. Pliocene. Marcigny, Bourgogne, France.
- † *dujardini*, *Dentalium* (*Antale*) Peyrot, 1938: 10, 11. Miocene, Helvetian. Sainte-Catherine-de-Fierbois, Pont-Levoy, Manthelan, and Louans, Ligerian Basin, Touraine, France. Type material stated to be in author’s collection. Remark: Dujardin (1837) erroneously identified this species as *Dentalium pseudoantalis* Lamarck, 1818.
- † *dumasi*, *Dentalium* Cossmann & Peyrot, 1917: 162, 163, pl. 1, figs 14, 15, pl. 2, fig. 18. Miocene, Tortonian and Helvetian. Saubrigues, Saint-Jean-de-Marsacq and Parleboscq (La Guirande), France. Tentative junior synonym of *Dentalium michelotti* Hörnes, 1856 (*vide* Pavia 1991: 111).
- † *dumasi*, *Fustiaria* (“?”) Cossmann, 1919: 141 [89], pl. 3, fig. 49. Eocene. Le Bois-Gouët, France.
- dumblei*, *Dentalium minutistriatum* var. Kennedy, 1895: 97 [spelled *dumbli*], 114, 123, 126, 128, 130 [ex Harris MS]. Eocene. Texas. *Nomen nudum*; not made available by subsequent citation by Dumble (1920: 171) and Plummer (*in* Sellards *et al.* 1933: 693) (*vide* Palmer 1937: 21; 1947: 215).
- dunkeri*, *Dentalium* Sharp & Pilsbry *in* Pilsbry & Sharp, 1898: 221, 222. Cretaceous. Near Cassel, Germany. Replacement name for *Dentalium rugosum* Dunker, 1848 *non* Eichwald “1846” [sic, 1857]. Remark: an unnecessary replacement name, since Pilsbry & Sharp (1898: 222) erroneously dated Eichwald’s name to 1846, not 1857.
- duodecemcostatum*, see *duodecimcostatum* Brazier, 1877.
- duodecenaria*, *Dentalium* Conrad, 1862b: 570 (citing Emmons 1858: 274, fig. 188). Miocene. North Carolina. Junior synonym of *Dentalium attenuatum* Say, 1824 (*vide* Pilsbry & Sharp 1898: 199).

- Remark: the specimen figured by Emmons (1858) was labeled as "*Dentalium attenuatum* Say," but Conrad considered this specimen to be a distinct, new species.
- † *duodecimcostata*, *Dentalium* (*Antale*) *novemcostatum* var. Sacco, 1897: 103, 104, pl. 8, fig. 69 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Villavernia and Zinola, Italy. Syntype MIGT BS.106.02.061 (*fide* Ferrero Mortara *et al.* 1984: 305).
- † *duodecimcostatum*, *Dentalium* d'Archiac, 1850: 443. Oligocene? Biarritz, France.
- duodecimcostatum*, *Dentalium* Brazier, 1877: 56. Recent. Darnley Island, Torres Straits [northern Australia], 30 fms [55 m]. Holotype AMS C170764. Junior homonym of *Dentalium duodecimcostatum* d'Archiac, 1850. Replacement name: *Dentalium healyi* n. nom. *Dentalium duodecimcostatum* [Lamprell & Healy, 1998: 61] is an incorrect subsequent spelling.
- † *duodecimplicatum*, *Dentalium* Repelin, 1907: 16, pl. 1, figs 12, 13. Upper Cretaceous, Saumatrian, Lower Campanian. Plan d'Aups, France.
- † *duplex*, *Dentalium* Defrance, 1819a: 71. Eocene. Parnes, Seine-et-Oise [Oise], France. Junior synonym: *Dentalium bicarinatum* Deshayes, 1825 (*fide* Deshayes 1864: 203). Remark: a valid species of *Lobantale* (*fide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- duplicatum*, *Dentalium* Blainville, 1825. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *durhami*, *Cadulus* (*Platyschides*) Emerson, 1957: 989, 990, pl. 126, fig. 3. Oligocene, Lincoln stage, Lincoln formation. UCMP loc. A-8723, Grays Harbor County, Washington, USA. Holotype UCMP 37582; paratype UCMP 37583.
- eboracense*, *Siphodentalium* Watson, 1879: 523 [Watson 1886: 17, pl. 2, fig. 10]. Recent. Torres Strait, Cape York, Australia, 3-11 fms [5.5-20 m]. Lectotype BMNH 1887.2.9.69/1 (designated by Lamprell & Healy 1998: 144); paralectotypes BMNH 1887.2.9.69/2-4 (3). *Pulsellum eboracense* (Watson, 1879) (*fide* Scarabino 1995: 322). Indo-Pacific: Australia. 5-321 m.
- eboreum*, *Dentalium* Conrad, 1846b: 27. Recent. Tampa Bay [west coast of Florida]. Lectotype ANSP 35530 (designated by Pilsbry & Sharp 1897: 89); paralectotype ANSP 320995. Junior synonyms: *Dentalium leptum* Bush [in Verrill], 1885b; *Dentalium matara* Dall, 1889 (*fide* Henderson 1920: 66); *Dentalium amaliense* Henderson, 1920 (*fide* Scarabino 1975: 185). *Graptacme eborea* (Conrad, 1846) (*fide* Pilsbry & Sharp 1897: 89). Western Atlantic: Caribbean to Brazil. 0-195 m. Remarks: original type locality was "southern coast of Florida" and the restriction to Tampa by Pilsbry & Sharp is pursuant to ICZN (1999) article 76.2. Since the Latin stem "ebur" is not used as a name proper but in its adjective form, the ending needs to be adjusted to the female gender of the genus name.
- eburneum*, *Dentalium* Linnaeus, 1767: 1264 [no references given]. Recent. India. Type material not located. Junior synonyms: *Dentalium annulare* Sowerby, 1829; *Dentalium indicum* Chenu, 1843 (*fide* Pilsbry & Sharp 1897: 116); *Dentalium philippinarum* Sowerby, 1860 (*fide* Scarabino 1995: 291). *Laevidentalium eburneum* (Linnaeus, 1767) (*fide* Habe & Kosuge 1964: 7). Indo-Pacific: India to Philippines. 44-200 m. Remark: the species misidentified as *Dentalium eburneum* by G. B. Sowerby (1825: pl. 138, fig. 6) is *Dentalium subeburneum* d'Orbigny, 1850.
- ecostatum*, *Dentalium* Kirk, 1880. Not a scaphopod. See Other taxa described as Scaphopoda.
- edenensis*, *Fissidentalium* Lamprell & Healy, 1998: 87, figs 82E, 83E, 89. Recent. Tasman Sea, east of Eden, New South Wales, Australia, 36°57.95'S, 150°22'E, 616-1050 m. Holotype AMS C303583; paratypes AMS C174458 (2), AMS C174170 (3), AMS C174457 (3). *Fissidentalium edenensis* Lamprell & Healy, 1998. Pacific Ocean: eastern Australia. 322-1050 m.
- edoense*, *Dentalium* Tokunaga, 1906. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *elassum*, *Dentalium* (*Episipbon*) *innumerabile* subsp. Woodring, 1973: 485, pl. 75, fig. 26. Middle Miocene, Gatun Formation. USGS locality 5845, Quebrancha Hills, overlooking Gatun Lake, Canal Zone, Panama. Holotype USNM Paleobiology 646738.
- † *elaticosta*, *Dentalium* (*Entalis*) *recta* var. Sacco, 1897: 110, pl. 10, fig. 6 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. San Agata, Italy. Syntype MIGT BS.106.03.037 (*fide* Ferrero Mortara *et al.* 1984: 308).
- elegans*, *Costentalina* Chistikov, 1982b: 1310, 1311, pl. 1, figs 1, 2, pl. 2, figs 1-9. Recent. Indian Ocean, Vitjaz stn 6744-5 T, 12°46.7'S, 88°54.4'E, 5100-5200 m. Holotype ZIN; paratypes IOM (1 from stn 5193, 32°48.9'S, 103°58.2'E, 5300 m; 1 from stn 6742-11, 13°01.2'S, 91°15.5'E, 5600-5800 m; 2 from stn 6742-15, 13°01.2'S, 91°15.5'E, 5280 m). *Costentalina elegans* Chistikov, 1982. Indo-Pacific: Australia. 5100-5800 m.
- † *elegantissimus*, *Cadulus* Pilsbry & Sharp, 1898a: 473, pl. 11, figs 28-30. Oligocene. Dominican Republic. Syntypes ANSP 2885 (*fide* Pilsbry 1922: 401), ANSP 79571.
- elegantissimus*, *Striocadulus* (*Sagamicadulus*) Sakurai & Shimazu, 1963: 250, 251, text-fig. 1. Recent. Off Hayama, Sagami Bay, 30-70 fms [55-128 m]. Holotype and paratype NSMT. *Sagamicadulus elegantissimus* (Sakurai & Shimazu, 1963) (*fide* Scarabino 1995: 334). Indo-Pacific: Japan. 55-128 m.
- elegantulum*, *Dentalium* (*Antalis*) Penna-Neme, 1974: 108, figs 1, 3, 8. Recent. Akaroa stn 183, 10°41'02"S, 36°20'25"W, 100 m. Holotype MZUSP 18699; paratypes MZUSP 18700, MZUSP 18702, MNRJ 3646. Junior synonym of

- Antalis infracta* (Odhner, 1931) (*vide* Scarabino 1975: 184).
- elenae*, *Gadila* Scarabino, 1995: 359, 360, figs 164, 169d. Recent. New Caledonia, RV *Vauban* MUSORSTOM 4 stn DW 156, 18°54'S, 163°19'E, 525 m. Holotype MNHN; paratypes MNHN (7; 2 from MUSORSTOM 4 stn DW 156; 2 from BIOCAL stn DW 08; 1 from MUSORSTOM 4 stn DW 160; 2 from MUSORSTOM 6 stn DW 410), AMS C201733 (1; MUSORSTOM 4 stn DW 160), NMNZ M268956 (1; MUSORSTOM 4 stn DW 160). *Gadila elenae* Scarabino, 1995. Indo-Pacific: New Caledonia. 435-668 m.
- elephantinum*, *Dentalium* Linnaeus, 1758: 785 [citing: Buonanni 1684: I. t. 8; Lister 1685-1692: 4. s. 2. f. 3; Rumphius 1705: t. 41. f. I; Petiver 1713: t. 16. f. 33, 1702-1711: t. 13. f. 9; Gualtieri 1742: t. 10. f. I; d'Argenville 1742: t. 7. f. H]. Recent. Indian Ocean [Ambon, Indonesia]. Syntypes ZMUU 805a-b, ZMUU 1008a-b, LS 610. Junior synonyms: *Dentalium arcuatum* Gmelin, 1791; ?*Dentalium recurvum* Deshayes, 1825; *Dentalium striatum* Born, 1778 (*partim*) (*vide* Pilsbry & Sharp 1897: 2); *Dentalium viridis* Perry, 1811 (*vide* Habe 1964: 6). *Dentalium elephantinum* Linnaeus, 1758. Indo-Pacific: Red Sea to Australia. 0-40 m. Remark: placed on the *Official List of Specific Names in Zoology* as the type species of *Dentalium* by ICZN Direction 73 (1957).
- † *elephantinus*, *Dentalites* Schlotheim, 1820: 95. Mesozoic [?]. Sternberg and Ludwigslust (Mecklenberg), Germany. Remark: although Schlotheim (1820) compared this fossil species with the Recent *Dentalium elephantinum* Linnaeus, 1758, these two species are not synonyms.
- elephas*, *Cadulus* (*Platyschides*) Henderson, 1920: 107, 108, pl. 17, fig. 10. Recent. Off St. Vincent [Lesser Antilles], West Indies, *Blake* stn 230, 13°13'20"N, 61°18'45"W, 464 fms [846 m]. Holotype MCZ 7741. *Gadila elephas* (Henderson, 1920). Western Atlantic, Caribbean. 640-1200 m.
- elizabethae*, *Fissidentalium* Lamprell & Healy, 1998: 91, 92, figs 92A, 93A, 94. Recent. North of Newcastle, New South Wales, 32°49.3'S, 152°49.1'E, 1075 m. Holotype AMS C174634; paratypes AMS C152019 (6). *Fissidentalium elizabethae* Lamprell & Healy, 1998. Known from type locality only. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *F. elizabethae* Lamprell & Healy, 1998 vis-à-vis *Compressidentalium subcurvatum* (E.A. Smith, 1906) requires further research.
- elliptica*, *Dentalium undulatum* var. Kittl, 1894: 244 [263]. Triassic, St Cassian Formation. Tirol, Austria/Italy. Junior homonym of *Dentalium ellipticum* J. Sowerby, 1814. Replacement name: *Dentalium kittli* Cossmann, 1900.
- ellipticum*, *Dentalium* J. Sowerby, 1814: 161, 162, pl. 70, figs 6, 7. Cretaceous. Folkstone, Kent, England, United Kingdom. Junior synonym of *Dentalium decussatum* J. Sowerby, 1814 (*vide* Pilsbry & Sharp, 1898: 221). Remark: the species misidentified as *Dentalium ellipticum* by Reuss (1845: 41, pl. 11, fig. 20) was subsequently described as *Dentalium michauxianum* Ryckholt, 1851 (*vide* Pilsbry & Sharp 1898: 224).
- ellipticum*, *Dentalium* (*Laevidentalium*) Koenen, 1892: 986, pl. 59, fig. 16. Lower Oligocene. Lattorf, Germany. Junior homonym of *Dentalium ellipticum* J. Sowerby, 1814. Replacement name: *Laevidentalium pseudellipticum* n. nom.
- elongata*, *Cadulus monterosatoi* var. Locard, 1898: 142. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Cadulus monterosatoi* Locard, 1897.
- elongata*, *Dentalium ergasticum* var. Locard, 1898: 106. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Dentalium ergasticum*, a junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877).
- elongata*, *Dentalium vulgare* var. Monterosato, 1884: 32. Recent. Mediterranean. *Nomen nudum*.
- † *elongatum*, *Dentalium* Goldfuss, 1841: 2, pl. 166, fig. 5 [ex Münster MS]. Cretaceous. Banz, Bamberg, Germany. *Laevidentalium elongatum* (Goldfuss, 1841) (*vide* Engeser & Riedel 1992: 37). Remark: Richardson (1906: 575) tentatively suggested that *Dentalium filicauda* Quenstedt, 1852 might be a junior synonym of this species; Brauns (1865: 113; 1869: 191) listed these two taxa as synonyms.
- elongatus*, *Cadulus* (*Platyschides*?) Henderson, 1920: 122, 123, pl. 19, fig. 15. Recent. Off the mouth of Mississippi River, USBF stn 2378, 29°14.30'N, 88°09.30'W, 68 fms [124 m]. Holotype USNM 323596. *Polyschides elongatus* (Henderson, 1920) (*vide* Emerson *in* Turgeon 1998: 55). Known from type locality only.
- elpis*, *Dentalium* Winckworth, 1927: 168, 169, fig. 1, pl. 14, figs 6, 7. Recent. Mannar Island, Ceylon [Sri Lanka], 3 fms [5 m]. Lectotype BMNH 1952.3.21.13 (designated by Ludbrook 1954: 110); paralectotypes BMNH 1952.3.21.14, NMW. *Graptacme elpis* (Winckworth, 1927) (*vide* Scarabino 1995: 246). Indian Ocean: Maldives, Sri Lanka. 14-238 m.
- † *emersoni*, *Coccodentalium* Squires, 1988: 8, 9, figs 7, 8. Eocene, Juncal Formation. CSUN locality 979, northern Lockwood Valley, Ventura County, California, USA. Holotype LACM Invertebrate Paleontology 7690.
- † *emersoni*, *Entalina* Maxwell, 1992: 187, pl. 29, figs h, i, l, o. Eocene. NZGS localities GS9480, GS9508, Waihao River, near McCulloch's Bridge, South Canterbury, New Zealand. Holotype NZGS TM7230; paratypes, NZGS (3).
- emersoni*, *Fustiaria* (*Fustiaria*) Caprotti, 1979: 240, 241, pl. 11, figs 2-5. Pliocene, Piacenzian.

- Castell'Arquato, Italy. Holotype MSNM I 5526. Junior synonym of *Gadilina jani* (Hörnes, 1856) (*vide* Pavia 1991: 128).
- engischistum*, *Dentalium* Barnard, 1963b: 351, 352, fig. 30f. Recent. Cape Natal, Durban, South Africa, 62 fms [112 m]. Syntypes SAFM A5463 (6), BMNH 19642510 (6). *Fustiaria engischista* (Barnard, 1963) (*vide* Scarabino 1995: 278). Indian Ocean: South Africa. 85-460 m. Remark: Scarabino (1995: 278) stated that SAFM A5463 was the holotype, but there are six syntypes in that lot and he did not designate any one of them as a lectotype.
- † *enneagonum*, *Dentalium* Martin, 1885: 187, 188, pl. 10, fig. 186; 1887: 187, 188, pl. 10, fig. 186. Pliocene? Samarang, Bohrlock Blakan Kebon, Java, Indonesia. Syntypes RGM 7244 (2) (*vide* Van den Hoek Ostende *et al.* 2002: 111).
- ensiculus*, *Dentalium* Jeffreys, 1877: 153. Recent. Type locality not specified. Syntypes BMNH 1885.11.5.1344-46 (*Porcupine*, no locality), BMNH 1877.11.28.56 (*Valorous*, 1450 fms [2624 m]) (*vide* Warén 1980: 54; not located in BMNH), USNM 176126 (*Valorous* stn 12, 56°11'N, 37°41'W, 1450 fms [Greenland, 2646 m]), USNM 176127 (*Porcupine* 1869 stn 19a [stn 19: 54°53'N, 10°56'W, Ireland, 1360 fms, 2482 m]), USNM 176128 (*Porcupine* 1869 stn 42, 49°12'N, 12°52'W, 862 fms [Greenland, 1573 m]), USNM 176129 (*Porcupine* 1870 stn 17, 39°42'N, 9°43'W, 1095 fms [Portugal, 1998 m]), USNM 176130 (*Porcupine* 1870 stn 16, 39°55'N, 9°56'W, 994 fms [Portugal, 1814 m]), USNM 176131 (*Valorous* stn 16, 55°10'N, 15°58'W, 1785 fms [Greenland, 3258 m]). Junior synonym: *Dentalium sigsbeanum* Dall, 1881 (*vide* Dall 1889: 428). *Bathoxiphus ensiculus* (Jeffreys, 1877) (*vide* Pilsbry & Sharp 1897: 121). Western Atlantic: Greenland to Caribbean; Eastern Atlantic: Greenland to Namibia. 350-4680 m.
- ensiforme*, *Dentalium* Chenu, 1842: pl. 6, fig. 18; 1850: 3. Recent. Antilles. Type material not located. *Laevidentalium*(?) *ensiforme* (Chenu, 1842) (*vide* Pilsbry & Sharp 1897: 101).
- ensis*, *Dentalium* Handmann 1888: 26 [ex Rolle MS]. *Nomen nudum*. Neogene. Vöslau, Austria. Remark: although Handmann attributed this name to "Rolle," we were unable to find this in the publications of Friedrich Rolle that were available to us.
- entaliopsis*, *Dentalium* Pilsbry & Sharp, 1898: 203. Eocene, London Clay. Portsmouth, Southampton and Primrose Hill, England, Great Britain. Replacement name for *Entaliopsis annulata* Newton & Harris, 1894, a junior secondary homonym of *Dentalium annulatum* Gmelin, 1791; *D. annulatum* Cristofori & Jan, 1832; *D. annulatum* Sandberger, 1842; *D. annulatum* Meyer, 1886; *Entalis annulatum* Tate, 1887. Junior synonym of *Antalis constricta* (Newton & Harris, 1894) (*vide* Jeffery & Tracey 1997: 90, 91).
- entalis*, *Dentalium* Linnaeus, 1758: 785, 786 [citing: Linnaeus 1746: 1327; Buonanni 1684: I. t. 9; Lister 1685-1692: 4. s. 2. f. 3; Rumphius 1705: t. 41. f. 5; Gualtieri 1742: t. 10. f. F; d'Argenville 1742: t. 7. f. K]. Recent. Atlantic Ocean. Syntypes ZMUU 1009, ZMUU 1010, LS 613. Junior synonym: *Dentalium (Antalis) entale stimpsoni* Henderson, 1920 (replacement name for *Dentalium striolatum* Stimpson, 1851a) (*vide* Pilsbry & Sharp 1897: 43). *Antalis entalis* (Linnaeus, 1758) (*vide* G. O. Sars 1878: 100, 101; Pilsbry & Sharp 1897: 42). Eastern Atlantic: Spitzbergen to Morocco; Western Atlantic: Arctic Ocean to New England. 5-1400 m. Remarks: placed on the *Official List of Specific Names in Zoology* as the type species of *Antalis* by ICZN Opinion 361 (1955). *Dentalium entanis* [Nyst & Westendorp 1839: 412] is an incorrect subsequent spelling.
- entalis*, *Dentalium* – J. Sowerby 1814: 159, 160, pl. 70, fig. 3, *non* Linnaeus, 1758. Tertiary. Hordwell Cliffs, England, United Kingdom. *Dentalium entalooides* Fleming, 1825 (*vide* Pilsbry & Sharp 1898: 203). Unnecessary replacement name: *Dentalium acuminatum* Brown, 1849.
- † *entaloides*, *Dentalium* Fleming, 1825: 240. Pliocene. Hordwell Cliffs and Stubbington, England, United Kingdom. Founded on *Dentalium entalis* sensu J. Sowerby 1814 *non* Linnaeus, 1758. Objective junior synonym: *Dentalium acuminatum* Brown, 1849.
- entaloides*, *Dentalium* Eudes-Deslongchamps, 1842: 128, 129, pl. 7, figs 36-38. Jurassic. Moutiers, Bayeaux, France. Junior homonym of *Dentalium entalooides* Fleming, 1825. Next available name: *Dentalium oolithicum* Piette, 1856 (*vide* Pilsbry & Sharp 1898: 225). Remarks: Brauns (1869: 191) concluded that this species was a junior synonym of *Dentalium elongatum* Goldfuss, 1841. The species Cossmann (1885) misidentified as *D. entalooides* Eudes-Deslongchamps, 1842 was later described as *Fustiaria (Laevidentalium) rigauxi* Fischer & Vadet, 1985.
- entanis*, see *entalis* Linnaeus, 1758.
- † *epetrior*, *Cadulus (Platyschides)* Woodring, 1973: 487, pl. 75, figs 1, 2. Middle Miocene, Gatun Formation. USGS locality 22018, Payardi Island, Panama. Holotype USNM Paleobiology 646741; paratype USNM Paleobiology 646732.
- † *equisetum*, *Dentalium (Dentalium)* Olsson, 1964: 203, 204, pl. 38, figs 8-8c. Pliocene. Esmeraldas Formation. Quebrada Camarones, Ecuador. Holotype USNM Paleobiology 645438; paratypes USNM Paleobiology 645439 (1), 645440 (1), 645441 (1).
- erectum*, *Dentalium* Sowerby, 1860: 99, pl. 225, fig. 55. Recent. Sydney Harbor, Australia. Lectotype BMNH 1993130/1 (designated by Lamprell & Healy 1998: 109); paralectotypes BMNH 1993130/2-3 (2). Junior synonym: *Dentalium pluteum* Colman, 1958 (*vide* Lamprell & Healy 1998:

- 109). *Laevidentalium erectum* (Sowerby, 1860) (*vide* Pilsbry & Sharp 1897: 111). Indo-Pacific: Australia. 11-2569 m.
- erectum*, *Dentalium* "Verkrz." Paetel, 1888: 593. "Jam." [= Jamaica]. *Nomen nudum*. Remark: Pilsbry & Sharp (1898: 253) stated that this species "is unknown to us".
- ergasticum*, *Dentalium* Fischer, 1883: 275, 276. Recent. Atlantic Ocean, 1900 m. Syntypes MNHN; MCZ 133729 (1; *Talisman*, off Fayal, Azores, 38°33'25"N, 30°28'54"W). Junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877) (B. Métiévier, n. syn.).
- † *erleneae*, *Cadulus* (*Gadila*) Hodgkinson, 1974: 15, 16, text-fig. 8a, b; pl. 1, figs 1, 2, pl. 2, fig. 5. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Little Brazos River, Brazos County, Texas, USA. Holotype USNM Paleobiology 180425; paratypes USNM Paleobiology 180426, 180446; PRI 29224; ANSP 31502.
- erosum*, *Fissidentalium* Shimek & Moreno, 1996: 77-81, figs 2, 4, 5. Recent. Station P3 (Moss Landing Marine Laboratory Designation), Pioneer Canyon, off Central California, 37°03'N, 123°26'W, 3090-3300 m. Holotype LACM 2755; paratypes LACM 2756, USNM 880041, BMNH 1994054. *Fissidentalium erosum* Shimek & Moreno, 1996. Eastern Pacific: California. 3090-3300 m.
- "*esinense*", *Dentalium* – Kittl 1899: 4. Error for *Dentalium lombardicum* Kittl, 1899. Remark: Kittl (1899: 191) corrected this error in the description of *Dentalium lombardicum* but erred again spelling it "*longobardicum*". Kittl used the correct original spelling on pages 197 and 213.
- † *esmeraldum*, *Dentalium* (*Fissidentalium*) Olsson, 1942: 232, 233 [80, 81], pl. 6, figs 1, 2, 10. Pliocene, Esmeraldas Formation. Punta Gorda, Esmeraldas province, Ecuador. Holotype PRI 4069; paratypes PRI 4070 (2) (*vide* Brann & Kent 1960: 318).
- † *etalense*, *Dentalium* Terquem & Piette, 1865: 67, pl. 2, fig. 43. Jurassic, Liassic. Saint-Menge, France. *Laevidentalium etalense* (Terquem & Piette, 1865) (*vide* Engeser & Riedel 1992: 37). Remark: Woodward (1893: 352) listed *Dentalium portlocki* Tate, 1870 as a junior synonym of this species, but without any explanation.
- eualdes*, *Dentalium* Barnard, 1963a: 444, 445. Recent. South Africa, 33°36'S, 16°15'E, 1520-1570 fms [2774-2865 m]. Syntypes SAFM A9736 (2), BMNH 1964241. *Fissidentalium eualdes* (Barnard, 1963) (*vide* Scarabino 1995: 255). Indian Ocean, South Africa. 2780-2880 m.
- † *eugenii*, *Dentalium* Dall, 1892: 438. Eocene. Prairie Creek beds, Wilcox County, Alabama, USA. Lectotype USNM Paleobiology 112631 (designated by Palmer & Brann 1965: 367, as "holotype").
- euloides*, *Cadulus* Melvill & Standen, 1901: 459, pl. 24, fig. 24. Recent. Gulf of Oman, Karachi, 24°49'N, 58°56'E, 345 fms [630 m]. Lectotype BMNH 1901.12.9.12 (designated by Ludbrook 1954: 115); paralectotypes ANSP 164737 (1); ZMA 3.01.011 (2 possible paralectotypes). *Cadulus euloides* Melvill & Standen, 1901. Indian Ocean: Red Sea to India and Maldives. 183-630 m.
- eupatrides*, *Dentalium* Melvill & Standen, 1907: 142, pl. 1, fig. 12. Recent. Antarctica, East of Weddell Sea, N. of Queen Maud Land, 71°22'S, 16°34'W, 1410 fms [2573 m]. Syntypes RSM 1921.143.584 (figured syntype and 32 syntypes), NMW 1955.158.590-91 (5), BMNH 1908.6.30.3 (1). *Dentalium eupatrides* Melvill & Standen, 1907. Antarctica, South Pacific. 2538-2700 m. Remarks: C. P. Palmer *in* Oliver (1984) assigned this species to *Graptacme*; V. Scarabino (*in litt.* 5.XI.2001) suggested that this species is referable to *Fissidentalium*. The type locality was "accidentally omitted" from the original description and was subsequently provided by Melvill & Standen (1907: 358).
- euzkadii*, *Annulipulsellum* Scarabino, 1986b: 4, 5, figs 8-20. Recent. North Atlantic, R/V *Knorr* Cruise 25, stn 307, 12°34.4'-12°40.8'N, 58°59.3'-59°09.2'W, 3835-3862 m. Holotype MCZ 293952; paratypes MCZ 293954, MCZ 293953 (*Atlantis II* cruise 31, stn 155, 00°03.0'S, 27°48.0'W, 3730-3783 m), MCZ 293955 (*Chain* cruise 106, stn 326, 50°04.9'N, 14°23.8'W, 3859 m), MCZ 293956 (*Knorr* cruise 25, stn 306, 09°31.1'N, 56°20.6'W, 3392-3429 m), MNHN, MHNM 14770-14772, AMNH 202773 (1; *vide* Boyko & Sage 1986: 29). *Annulipulsellum euzkadii* Scarabino, 1986. Eastern and Central Atlantic: Iceland to off Brazil. 1407-3862 m.
- † *ewekoroense*, *Dentalium* (*Antalis*) Adegoke, 1977: 64, pl. 6, figs 10, 11. Paleocene. Nigeria. Holotype UIMG 182; paratype USNM Paleobiology 174767.
- exaratum*, *Dentalium* Risso, 1826a: 125. Fossil. Near Nice, France. *Nomen nudum*.
- † *exaratum*, *Dentalium* Yokoyama, 1927b: 198, pl. 51, fig. 14. Pliocene. Upper Chikbets Beds (branch stream of the Haboro) and Lower Chikbets Beds (Rorenai), Haboro, Teshio, Japan. Syntype, Geological Survey of Japan (*vide* Hanzawa *et al.* 1961: 209).
- exasperatum*, *Dentalium* Sowerby, 1903: 225, pl. 5, fig. 12. Recent. South Africa, Umphloti River mouth, 27 fms [49 m]. Syntypes BMNH 1903.7.27.57-59. Junior synonym: *Dentalium platei* Jaeckel, 1932 (*vide* Barnard 1963a: 347). *Fissidentalium exasperatum* (Sowerby, 1903) (*vide* Scarabino 1995: 255). Eastern Atlantic, Indian Ocean: South Africa. 49-180 m.
- † *exdispar*, *Dentalium* (*Pseudantalis*) *rubescens* var. Sacco, 1897: 112. Miocene. Castell'Arquato and Majatico, Italy. Replacement name for *Dentalium dispar* Mayer, 1874 *non* Sowerby, 1860. Remark: *Dentalium cocconii* Sharp & Pilsbry, 1897 is an

- objective junior synonym as it was also introduced as a replacement name later in the same year (*vide* Pilsbry & Sharp 1898: 214).
- † *exiguus*, *Dentalium* Koenen, 1892: 980, 981, pl. 59, figs 9-11. Lower Oligocene. Lattorf, Germany.
- exiguus*, *Cadulus* Watson, 1879: 528, 529 [Watson 1886: 23, pl. 3, fig. 10]. Recent. Off Culebra Island, *Challenger* stn 24, 18°38'30"N, 65°5'30"W, 390 fms [712 m]. Syntypes BMNH 1887.2.9.94 (2). *Cadulus exiguus* Watson, 1879. Known from type locality only.
- † *exile*, *Dentalium* Tommasi, 1901: 57, pl. 1, fig. 10. Middle Triassic, Ladinian (*vide* Diener 1926: 229). Canal di Pèzo, Valle del Dezzo, Italy.
- † *exlamarcki*, *Dentalium* (*Entalis*) Sacco, 1897: 106. Miocene. Bordeaux and Dax, France. Replacement name for *Dentalium lamarcki* Mayer, 1864, a junior homonym of *Dentalium lamarcki* Chenu, 1843.
- exmouthensis*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 19, 20, figs 9B, 10B, 12, 13D-F. Recent. Near lighthouse, North West Cape, Exmouth Gulf, northern Western Australia, in littoral sand. Holotype QM MO38994; paratypes QM MO38985 (1), AMS C172174 (1), WAM 282-93 (2). *Dentalium exmouthensis* Lamprell & Healy, 1998. Indian Ocean: Western Australia. 0-82 m.
- † *expolita*, *Entalina* Della Bella & Tabanelli, 1996: 14-16, text-figs A, B. Lower Pleistocene, Santerniano. Samoggia, near Monte Mario, Romagna, Italy. Holotype and paratypes, Laboratorio di Malacologia dell'Istituto di Zoologia dell'Università di Bologna, No. 11631.
- exuberans*, *Dentalium* Locard, 1897b: 10 [Locard, 1898: 110, pl. 6, figs 15-20]. Recent. Senegal, "Sahara" [Morocco], Azores between Pico and Saint Georges, 1258-3650 m. Syntypes MNHN (1 from Azores; 3 from Azores, *Talisman* 1883 dr. 126, 4255 m; 2 from *Talisman* 1883 dr. 102, 3655 m). Junior synonym of *Fissidentalium paucicostatum* (Watson, 1879) (B. Métyvier, n. syn.).
- exvitreum*, *Siphonodentalium* Sacco, 1897: 115, footnote. Replacement name for *Dentalium vitreum* M. Sars, 1851 [1831 in error] non *Dentalium vitreum* Gmelin, 1791. Junior synonym of *Siphonodentalium lobatum* (Sowerby, 1860) (*vide* Pilsbry & Sharp 1898: 253). Remark: Sacco considered *S. vitreum* (M. Sars, 1851) and *S. lobatum* (Sowerby, 1860) to be different species.
- † *ezoense*, *Dentalium cooperi* var. Nagao, 1938: 140, 141, pl. 15 [2], figs 12-14. Cretaceous. Abesinai-gawa, Tezio province, Japan; Umpei-sawa, Uryugawa, Rutaka-gun, Sakhalin [Russia]. Syntype, Dept. Geol., Hokkaido Univ. No. 8248 (*vide* Hanzawa *et al.* 1961: 209).
- fabrizioi*, *Bathycadulus*, Scarabino, 1995: 354, 355, figs 159, 160 m, n. Recent. South Africa, *Meiring Naude* stn SM 109, 28°41'S, 32°37'E, 1300 m. Holotype SAFM A36258; paratypes MHNM 14751 (1), SAM (1), MNHN (11; MD 32 Réunion stn DS109), NM (1; MD 32 Réunion stn DS109), USNM 890862 (1; stn DS109). *Bathycadulus fabrizioi* Scarabino, 1995. Indo-Pacific: South Africa to New Caledonia. 1050-1915 m.
- falcatum*, *Dentalium* Conrad, 1869. Not a scaphopod. See Other taxa described as Scaphopoda.
- falklandicum*, *Siphonodentalium* (*Pulsellum*) Dell, 1964: 131, fig. 4, No. 13. Recent. Falkland Islands, *Scoresby* stn WS 210, 50°17'S, 60°06'W, 161 m. Holotype BMNH 1962878/1; paratypes BMNH 1962878/2-6, BMNH 1962879/6 (stn 211, 50°17'S, 60°06'W, 174 m), BMNH 1962879/4 (stn 212, 49°22'S, 60°10'W, 242-249 m), BMNH 1962881/6 (stn 214, 48°25'S, 60°40'W, 208-219 m), BMNH 1962882/1 (stn 229, 50°35'S, 57°20'W, 210-271 m). *Pulsellum falklandicum* (Dell, 1964). Western Atlantic: Uruguay to Magellanic Region, Falkland Islands. 81-1274 m.
- fasciatum*, *Dentalium* Gmelin, 1791: 3738 [citing Martini 1769: I. t. I. f. 3. B]. Recent. Sicily [Mediterranean Sea]. Type material not located. Junior synonym of *Antalis vulgaris* (Da Costa, 1778) (*vide* Pilsbry & Sharp 1897: 42).
- fausta*, *Polyschides* Kuroda, Habe & Oyama, 1971: 496 [in Japanese], 313, 314 [in English], pl. 65, figs 18, 19. Recent. Sagami Bay, Amadaiba-Kannontsukadashi-Maruyamadashi, Japan, 86 m (as a *nomen nudum* in Habe 1963: 276). Holotype and paratype in Imperial Household Biological Laboratory (Japan). *Polyschides fausta* Kuroda, Habe & Oyama, 1971 (*vide* Scarabino 1995: 339). Indo-Pacific: Japan. 50-100 m.
- † *feruglioi*, *Laevidentalium* Brunet, 1995: 55, pl. 5, fig. 11. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-060.
- festivum*, *Dentalium* Sowerby, 1914: 8. Recent. New Caledonia. Holotype BMNH 1914.4.2.1. *Pictodentalium festivum* (Sowerby, 1914) (*vide* Habe 1964: 15, as *Dentalium* (*Pictodentalium*) *formosum*). Indo-Pacific: New Caledonia. 20-62 m. Remark: *Dentalium festivum* was synonymized with *P. formosum* (Adams & Reeve, 1850) by Habe (1963: 255) and Lamprell & Healy (1998: 72); however, Scarabino (1995: 269) treated this as a valid species.
- † *fibula*, *Gadila* Boettger, 1907: 212. Miocene. Valea Semini, Kostej, Banat, Romania. Holotype SMF XIII.6a (*vide* Zilch 1934: 278, pl. 22, fig. 24). *Cadulus* (*Gadila*) *fibula* (Boettger, 1907) (*vide* Zilch 1934: 278).
- † *filicauda*, *Dentalium* Quenstedt, 1852: 443, pl. 35, fig. 18; 1867: 530. Jurassic, Liassic. Near Berlin, Germany. Remarks: Richardson (1906: 575) tentatively suggested that this species might be a junior synonym of *Dentalium elongatum* Goldfuss, 1841; Brauns (1865: 113; 1869: 191) listed these two taxa as synonyms.

- filosa*, *Antalis* de Koninck, 1883: 219, pl. 49, figs 23, 24. Carboniferous. Visé, Belgium. Junior secondary homonym of *Dentalium filosum* Broderip & Sowerby, 1830. Replacement name: *Dentalium orthoceras* Pilsbry & Sharp, 1898.
- filosum*, *Dentalium* Broderip & Sowerby, 1830: 48. Recent. Tenasserim [Burma/Myanmar], on shore. Syntypes (3) not located. *Dentalium filosum* Broderip & Sowerby, 1830. Reported from type locality only.
- filum*, *Dentalium* Sowerby, 1860: 98, pl. 225, fig. 45. Recent. Gibraltar; "Philippines". Type material not located. Junior synonyms: *Dentalium gracile* Jeffreys, 1870 (*vide* Jeffreys 1883: 661), *Dentalium funiculus* Brugnone, 1878 (*vide* Pilsbry & Sharp 1898: 204, 253), *Dentalium (Antalis) laeve* Hilgard & Hopkins, 1878 (*vide* Pilsbry & Sharp 1898: 207). *Episiphon filum* (Sowerby, 1860) (*vide* Pilsbry & Sharp 1897: 118). Eastern Atlantic, Mediterranean. 20-4784 m.
- filum*, *Dentalium (Laevidentalium)* Marwick, 1931: 158, pl. 18, figs 342, 343. Miocene, Altonian-Clifdenian, Ihungia Series. Waihora River, Waingaromia, Gisborne, New Zealand. Holotype NZGS TM4813; paratypes NZGS TM4814 (1), NZGS (5) (*vide* Keyes 1972: 97). Junior homonym of *Dentalium filum* Sowerby, 1860. Replacement name: *Dentalium waihoraensis* Emerson, 1954. *Laevidentalium waihoraense* (Emerson, 1954) (*vide* Maxwell 1988: 716).
- fisheri*, *Dentalium (Dentalium)* Pilsbry & Sharp, 1897: 36, 37, pl. 5, figs 61-65 [*ex* Stearns, 1894: 157, *nomen nudum*]. Recent. Los Animas Bay, Baja California, Mexico. Holotype USNM 46204. Junior synonym of *Tesseracme quadrangularis* (Sowerby *in* Broderip & Sowerby, 1832) (*vide* Emerson 1956: 2).
- † *fissura*, *Dentalium* Lamarck, 1818: 346. Eocene. Grignon, France. Junior synonym: *Dentalium acuminatum* Deshayes, 1825 (*vide* Deshayes 1864: 213). *Fustiaria fissura* (Lamarck, 1818) (*vide* Newton & Harris 1894: 65). Remarks: a valid species of *Pseudantalis* (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85). For *Dentalium fissura* auct. *non* Lamarck, 1818 reported from the Upper Oligocene, Janssen (1978a) introduced *Dentalium (Antalis) pseudofissura*.
- fistula*, *Dentalium* Sowerby, 1860: 99, pl. 225, fig. 62. Recent. Cochin, southwest India (label of BMNH type). Syntype (possible holotype) BMNH 1907.12.30.317. *Episiphon fistula* (Sowerby, 1860) (*vide* Pilsbry & Sharp 1897: 118). Indian Ocean: India. Remark: V. Scarabino (*in litt.* 20.II.2002) suggested that this species is not referable to *Episiphon*, but its generic position is uncertain.
- flavum*, *Dentalium (Antalis) ceratum* Henderson, 1920: 51, 52, pl. 7, fig. 1. Recent. Off Key West, *Eolis* stn 333, 110 fms [201 m]. Holotype USNM 314391; paratypes ANSP 132113 (2), USNM 314400 (*Eolis* stn 325, 95 fms [173 m], off Sand Key, Florida), AMNH 148298 (1, stn 325), USNM 314391a-314405, USNM 323016. Subspecies of *Antalis cerata* (Henderson, 1920). Western Atlantic: Florida Key region. 173-201 m.
- flavum*, *Dentalium* Scarabino, 1995: 212, 213, figs 19, 28c, e. Recent. South Pacific, Coral Sea, Banc Nova, RV *Coriolis*, MUSORSTOM 5, stn DW 301, 22°07'S, 159°25'E, 478-610 m. Holotype MNHN; paratypes MNHN (10; 1 from stn 301; 1 from stn DW 306; 1 from stn LAGON 444; 2 from stn DW 72; 1 from stn DW 38; 1 from stn DW 01; 1 from stn DW 05; 1 from stn DW 478; 1 from stn DW 479), AMS C201722 (1; stn DW 479); NMNZ M268960 (1; stn DW 479). Junior homonym of *Dentalium flavum* Henderson, 1920. Replacement name: *Dentalium scarabinoi* n. nom.
- † *flechensis*, *Antalis* Brunet, 1995: 53, 54, pl. 5, fig. 8. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-081.
- flindersi*, *Dentalium (Paradentalium)* Cotton & Ludbrook, 1938: 210, pl. 12, fig. 4. Recent. St Vincent Gulf, South Australia, 22 fms [40 m]. Holotype SAM D 13338. *Paradentalium flindersi* (Cotton & Ludbrook, 1938). Indo-Pacific: West and South Australia. 18-276 m.
- † *floratum*, *Dentalium* Zimmermann, 1847: 243 [*ex* Philippi MS]. Upper Miocene. Schwarzen Thon, Saxony, Germany. *Fissidentalium floratum* (Zimmermann, 1847) (*vide* Janssen 1989: 84).
- florenciae*, *Bathycadulus* Palmer, 1986: 396 [*ex* Scarabino MS]. *Nomen nudum*.
- florenciae*, *Cadulus* Scarabino, 1995: 351, figs 156, 160h. Recent. Réunion, Indian Ocean, MD32, stn DS139, 20°47'S, 55°38'E, 1575-1600 m. Holotype MNHN and 3 paratypes (from stn DR 104). *Cadulus florenciae* Scarabino, 1995. Known from Réunion only.
- florenciae*, *Dentalium* Moraes Rego, 1936. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *floridanus*, *Cadulus* Dall, 1892: 446, pl. 23, fig. 26. Miocene. Alum Bluff, Appalachicola River, Florida, USA. Syntypes USNM Paleobiology 112757 (numerous). Remark: Schuchert *et al.* (1905: 112) cited USNM 112757 as the "holotype" but did not specify which syntype was to be the holotype, so this does not constitute a valid lectotype designation.
- floridense*, *Dentalium (Fissidentalium)* Henderson, 1920: 64, 65, pl. 10, figs 1, 2, 6, 7. Recent. Off Sand Key, Florida, *Eolis* stn 301, 95 fms [173 m]. Holotype USNM 314457. Junior synonym of *Fissidentalium carduus* (Dall, 1889) (*vide* Scarabino 1994: 307; generic placement *vide* Emerson *in* Turgeon 1988: 50, and 1998: 54, 200, where he listed *Fissidentalium floridense* as a distinct species).
- † *fodinense*, *Laevidentalium* (s.l.) Maxwell, 1988: 76, pl. 13, figs f-h. Late Miocene, Stillwater Mudstone.

- NZGS localities GS3341 and GS11556, Karoro, near Greymouth, Westland, New Zealand. Holotype NZGS TM6613; paratypes NZGS (61).
- formosum*, *Dentalium* Adams & Reeve, 1850: 71, pl. 5, fig. 1a, b. Recent. Sulu Archipelago, Philippines, outside coral reef near city of Sulu [= Jolo], 16-20 fms [29-37 m]. Lectotype BMNH 1951.2.14.1 (designated by Lamprell & Healy 1998: 72); paralectotypes BMNH 1951.2.14.2-3 (2). Synonyms: *Fissidentalium (Pictodentalium) formosum harrisoni* Habe, 1970, *Dentalium (Pictodentalium) formosum hirasei* Kira, 1959 (*vide* Scarabino 1995: 267). *Pictodentalium formosum* (Adams & Reeve, 1850) (*vide* Habe 1964: 15). Indo-Pacific: Australia to China Sea and New Caledonia. 5-145 m. Remark: *P. festivum* (Sowerby, 1914) was considered a junior synonym by Habe (1963: 255) and Lamprell & Healy (1998: 72) but not by Scarabino (1995: 269).
- † *fossile*, *Dentalium* Gmelin, 1791: 3738 [citing Schröter 1784b: 4 t. 3 f. 7]. [Fossil]. Type locality not specified. Junior synonym: *Dentalium catenulatum* Chenu, 1843 (*vide* Pilsbry & Sharp 1898: 201). Remark: the species misidentified as *D. fossile* by Philippi (1847: 80) was later described as *D. kickxii* Nyst, 1843 (*vide* Pilsbry & Sharp 1898: 207).
- foweyensis*, *Cadulus (Platyschides)* Henderson, 1920: 114, 115, pl. 18, figs 7, 13. Recent. Off Triumph Reef, Florida, *Eolis* stn 350, 90 fms [164 m]. Holotype USNM 314721. *Polyschides foweyensis* (Henderson, 1920) n. comb. Western Atlantic, Caribbean. 10-164 m.
- fragile*, *Pharetrium* König, 1825. Not a scaphopod. See Other taxa described as Scaphopoda.
- fragile*, *Pulsellum* Scarabino, 1995: 320, 321, figs 122, 125a. Recent. Réunion, Indian Ocean, MD32 stn DS151, 20°51'S, 56°03'E, 3300-3240 m. Holotype MNHN; paratypes MNHN (14); NM (1). *Pulsellum fragile* Scarabino, 1995. Indian Ocean: Réunion. 3240-3300 m.
- † *fragilis*, *Dentalium* Meek & Hayden, 1856: 69. Cretaceous. Yellowstone River, "150 miles above mouth", Montana, USA. Syntypes USNM Paleobiology 296 (*vide* Schuchert *et al.* 1905: 219), ANSP 79585. *Dentalium fragile* Meek & Hayden, 1856 (*vide* Pilsbry & Sharp 1898: 222).
- francisense*, *Dentalium* Verco, 1911a: 207, 208, pl. 26, figs 1, 1a. Recent. Petrel Bay, St Francis Island, South Australia, 15-20 fms [27-37 m]. Holotype SAM D 13724; paratypes SAM D 16004 (1), AMS C334 (2; Gulf of St Vincent, South Australia, 27-40 m), USNM 251989 (Gulf of St Vincent, South Australia). *Paradentalium francisense* (Verco, 1911) (*vide* Cotton & Godfrey 1933: 139). Indo-Pacific: South Australia. 27-550 m. Remark: Lamprell & Healy (1998) did not recognize the genus *Paradentalium* and, thus, listed *francisense* under *Dentalium*.
- franklinae*, *Fissidentalium* Lamprell & Healy, 1998: 93, figs 91F, G, 92C, 93C, 96. Recent. Off Cairns, northern Queensland, Australia, 17°51'S, 147°18'E, 703 m. Holotype QM MO40030; paratypes QM MO17771 (3), QM MO18003 (1; off Cairns, 17°49'S, 148°40'E, northern Queensland, 990 m), QM MO18004 (3; off Cairns, northern Queensland, 672 m), AMS C201735 (2; off Cairns, Queensland, 17°36.98'S, 146°57.43'E, 672-744 m), AMS C201735 (2, preserved). *Fissidentalium franklinae* Lamprell & Healy, 1998. Indo-Pacific: eastern Australia. 366-1460 m.
- fraseri*, *Cadulus (Gadila)* Nicklès, 1955: 98, fig. 1. Recent. Ghana, *Atlantide* stn 84, 5°37'N, 0°35'E, 150-175 m. Holotype + 3 fragments not located in ZMUC. *Gadila fraseri* Nicklès, 1955. Known from the type locality only.
- fredericae*, *Prodentalium* Engeser & Riedel, 1992: 41. Carboniferous. Iowa, USA. Objective junior synonym of *Prodentalium obsoletum* (Hall, 1858). Remarks: the name was introduced as a replacement name for *Dentalium sublaeve* Hall in Miller, 1877, a junior homonym of *Dentalium dentalis* var. *sublaevis* Cocconi, 1874, which itself is an unnecessary replacement name for *Dentalium obsoletum* Hall, 1858. *Dentalium obsoletum* Schlotheim, 1832 is a *nomen nudum* and Hall's name, therefore, not a junior homonym.
- † *fritschi*, *Dentalium* Koenen, 1892: 988, 989, pl. 59, fig. 13. Lower Oligocene. Lattorf, Calbe, Atzendorf, Unseburg and Brandhorst, Germany.
- † *frontierensis*, *Cadulus* Sidwell, 1932: 316, pl. 48, fig. 13. Cretaceous, Colorado Group, Frontier Formation. 3 miles NE of Medicine Bow, Como Ridge, Wyoming, USA. Holotype University of Iowa, Paleontological Museum, No. 8-629.
- funiculus*, *Dentalium* Brugnone, 1878: 44, pl. 1, fig. 5. Pliocene. Ficarazzi, Italy. Junior synonym of *Dentalium filum* Sowerby, 1860 (*vide* Pilsbry & Sharp 1898: 204, 253).
- † *furcata*, *Plagiogypta* "?" Waterhouse, 1980: 197, 198, figs 4-11. Permian, Productus Creek Group, Mangarewa Formation. NZGS localities GS 6071, 6072, New Zealand. Holotype NZGS TM5686; paratypes NZGS TM5678-TM5685.
- † *fusiforme*, *Dentalium* Link, 1807: 23. [Fossil]. Sternberg, Germany.
- fusiformis*, *Cadulus (Gadila)* Pilsbry & Sharp, 1898: 193, 194, pl. 35, fig. 14 [*ex* Cooper MS]. Recent. San Pedro, California, 4 fms [7 m]. Holotype USNM 133809; paratypes USNM 602247, AMNH 148398 (1). Junior synonym of *Gadila aberrans* (Whiteaves, 1887) (*vide* Shimek 1989: 234).
- fusticulus*, *Dentalium* Brugnone, 1876: 21, fig. 31. Tertiary. Ficarazzi, Italy. Junior synonym of *Antalis agilis* (G. O. Sars, 1872) (*vide* Monterosato 1880: 64).
- † *gabbi*, *Cadulus* Pilsbry & Sharp, 1898: 236. "Cretaceous" [Eocene]. NE of Martinez; Alizos

- Creek, near Fort Téton; and Tuscan Springs, California, USA. Lectotype ANSP 79582 (designated by Emerson 1957: 988, 989, pl. 26, figs 1-5); paralectotypes ANSP 79583. Replacement name for *Dentalium* (*Ditruva* “?”) *pusillum* Gabb, 1864, a junior homonym of *Dentalium pusillum* Philippi, 1836. Remark: Emerson (1957: 988, 989) determined that Gabb’s geological age, “Cretaceous” was incorrect and that this species is actually from the Eocene.
- † *gabbi*, *Dentalium* Pilsbry & Sharp, 1898a: 470, 471, pl. 10, figs 6, 7, 13, pl. 11, figs 1, 2. Oligocene. Dominican Republic. Type material ANSP 2711 (*fide* Pilsbry 1922: 400). Replacement name for *Dentalium affine* Gabb, 1873, a junior homonym of *Dentalium affine* Deshayes, 1861, and *D. affine* Biondi, 1859.
- † *gadula*, *Cadulus* (*Gadila*) *gadus* var. Sacco, 1897: 118, pl. 10, figs 88, 89 [as a *nomen nudum*, *Gadus gadulus* Doderlein, 1864: 98, and Sacco, 1896: 98]. Lower Pliocene of Zinola, Italy. Lectotype MIGT BS.106.12.010 (selected by Pavia 1991: 138) (figured by Ferrero Mortara 1984: 311, pl. 56, fig. 3). Junior synonym: *Cadulus* (*Gadila*) *razzorei* Caprotti, 1979 (*fide* Pavia 1991: 137, 138). *Gadila gadulus* (Sacco, 1897) (*fide* Pavia 1991: 137, 138, pl. 9, figs 12-17).
- gadulus*, *Gadus* Doderlein, 1864: 98 [16]. Miocene. Monte Gibio, Italy. *Nomen nudum*. This species name was subsequently validated as *Cadulus* (*Gadila*) *gadus* var. *gadula* Sacco, 1897.
- gadulus*, see *gadus*.
- gadus*, *Dentalium* Montagu, 1803: 496, pl. 14, fig. 7. Recent (?). English Channel. Possible syntypes BMNH 1950.11.24.1-3. Junior synonym: *Dentalium coarctatum* Lamarck, 1818 (fossil; non *D. coarctatum* Brocchi, 1814) (*fide* Pilsbry & Sharp 1898: 240). *Gadila gadus* (Montagu, 1803) (*fide* Pilsbry & Sharp 1898: 186). Eastern and Western Atlantic: Africa to Caribbean; (doubtful record from the Red Sea by Cooke 1885: 275). 18-280 m. Remarks: Pilsbry & Sharp (1898: 243) quote Hanley saying that *Dentalium minutu[m]* Linnaeus, 1758 “[...] is not identifiable but [...] that it may be *Cadulus gadus*”. Rang (1828: 309-312, pl. 18, figs 3-6; 1829: 498, pl. 19, fig. E) transferred this species to *Cleodora* (*Creseis*) [Gastropoda], but this may be based upon misidentified specimens. *Dentalium gadulus* [Arduini, 1895: 195] is an incorrect subsequent spelling. Sacco (1897: 118) and Pavia (1991: 137, 138) determined that Arduini’s material was not conspecific with Montagu’s species, but instead is referable to *Gadila gadulus* Sacco, 1897.
- galathea*, *Siphonodentalium* Knudsen, 1964: 125, 126, figs 1, 2. Recent. Sunda Trench, *Galathea* stn 465, 10°20’S, 109°55’E, 7000-6900 m. Holotype ZMUC. *Striopulsellum galathea* (Knudsen, 1964) (*fide* Scarabino 1995: 324). Known from type locality only.
- gallardoi*, *Dentalium* Rovereto, 1921: 30. Tertiary. Argentina. Junior synonym of *Dentalium octocostellatum* Pilsbry & Sharp, 1898 (*fide* Feruglio 1949b: 203, footnote).
- † *gallensteini*, *Dentalium* Gugenberger, 1934: 43, 44, pl. 1, figs 10a, 10b [*nomen nudum* in Gugenberger 1933a: 102; 1933b: 184]. Triassic. North of Launsdorf, Austria. *Prodentalium gallensteini* (Gugenberger, 1934) (*fide* Stiller 2001: 630).
- † *ganense*, *Laevidentalium* Cossmann in O’Gorman & Cossmann, 1923: 28, pl. 3, figs 5, 6. Eocene. Gan, S of Pau, France.
- gardineri*, *Dentalium* Melvill, 1909: 120, pl. 5, fig. 9. Recent. Amirantes Island, c. 900 miles East off Zanzibar, South of Seychelles, Percy Sladen Trust Exp. stn 20, 160-209 fms [292-381 m]. Holotype BMNH 1910.3.17.12. *Antalis gardineri* (Melvill, 1909) (*fide* Ludbrook 1954: 93). Indo-Pacific: Madagascar to New Caledonia. 270-705 m.
- gardneri*, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898: 222. Cretaceous, Gaultian. Folkestone, England, United Kingdom. Replacement name for *Dentalium acuminatum* Gardner, 1878, a junior secondary homonym of *Dentalium acuminatum* Deshayes, 1825, and itself a junior homonym of *Dentalium gardneri* (Holzapfel, 1888); replacement name: *Dentalium infortunatum* Pilsbry & Sharp, 1898.
- † *gardneri*, *Entalina* Sharp & Pilsbry in Pilsbry & Sharp, 1898: 234. Cretaceous, Gaultian. Folkestone, England, United Kingdom. Replacement name for *Siphonodentalium affine* Gardner, 1878, a junior homonym of *Siphonodentalium affine* M. Sars, 1865.
- † *gardneri*, *Entalis* Holzapfel, 1888: 177, pl. 20, fig. 10. Cretaceous. Near Vaals, Netherlands. *Fustiaria gardneri* (Holzapfel, 1888) (*fide* Pilsbry & Sharp 1898: 255; *Fustiaria* here as a subgenus, hence the homonymy!).
- garrardi*, *Dentalium* (*Lentigodentalium*) Lamprell & Healy, 1998: 71, figs 68C, 69D, E, 72. Recent. Lady Musgrave Island, Capricorn-Bunker Group, E of Gladstone, Queensland, Australia. Holotype AMS C169770; paratypes AMS C174887 (30), MV F67452 (2); Lady Musgrave Island, Queensland). *Dentalium garrardi* Lamprell & Healy, 1998. Indo-Pacific: eastern Australia; Queensland. 10-37 m.
- † *gaultinus*, *Cadulus* Gardner, 1878: 63, pl. 3, fig. 48. Cretaceous, Gaultian. Folkestone, England, United Kingdom.
- gaussianum*, *Dentalium majorinum* var. Plate, 1908b: 5, 6, figs 1-4. Recent. Antarctica, Deutsche Südpolar Exp. stn 56, 66°02’S, 89°38’E, 385 and 350 m. Lectotype ZMB 59730a (designated by Kilias 1995: 175); paralectotype ZMB 59730b. Synonym of *Dentalium majorinum* Mabilie & Rochebrune, 1889.
- gayi*, *Dentalium* Philippi, 1887a: 107, pl. 12, fig. 19; 1887b: 101, pl. 12, fig. 19. Tertiary. Matanzas and

- Carauma, Chile. Junior synonym of *Dentalium sulcosum* J. de C. Sowerby, 1846 (*vide* Ortmann 1902: 157, 159).
- gazellae*, *Dentalium* (*Episiphon*) Plate, 1908a: 356, pl. 30, figs 40, 41. Recent. Northwest Australia, *Gazelle* Exp., 9 fms [16 m]. Holotype ZMB 33195. *Episiphon*(?) *gazellae* (Plate, 1908) (*vide* Scarabino 1995: 289). Known from type locality only.
- † *geinitzi*, *Dentalium* (*Fustiaria*) Koenen, 1892: 989, 990, pl. 59, fig. 12. Lower Oligocene. Lattorf, Germany. *Fustiaria geinitzi* (Koenen, 1892). Remarks: name for *Dentalium fissura* sensu Koenen non *Dentalium fissura* Lamarck, 1818. Junior secondary homonym of *Dentalium geinitzi* (Böhm, 1885). We have no information of Koenen's name being used since 1899 and, therefore, do not rename this homonym until future research proves it a valid species.
- † *geinitzi*, *Fustiaria* Böhm, 1885: 34, 35, pl. 1, fig. 7. Cretaceous. Vaals [Vael], Netherlands. *Dentalium geinitzi* (Böhm, 1885) (*vide* Pilsbry & Sharp 1898: 254).
- † *geinitzianum*, *Dentalium* Ryckholt, 1851: 70. Cretaceous: Turonian. Tournay and Montignies-sur-Roc, Belgium. Remark: name for *Dentalium medium* sensu Geinitz 1840 non *Dentalium medium* J. Sowerby, 1814.
- † *geminatum*, *Dentalium* Goldfuss, 1841: 4, pl. 166, fig. 13. Oligocene. Bünde, Westphalia, Germany. Syntypes GPIB 1072. Remarks: Janssen (1978a: 14, 15) originally considered this name to be a "*nomen oblitum*" and thus not a senior synonym of *Dentalium kickxi* Nyst, 1843. Janssen (1978b: 138, 139) concluded from the Goldfuss types that it was a valid species and a senior synonym of *D. kickxi*. Most recently, Janssen (1987: 174-176) determined that *Antalis geminatum* was found in the Late Oligocene and *A. kickxi* was found in the Middle Oligocene; the two species are not synonyms.
- gemmiparum*, *Dentalium* Melvill, 1909: 120, pl. 5, fig. 10. Recent. Chagos Archipelago, Diego Garcia Lagoon, Indian Ocean. Holotype BMNH 1910.3.17.13. *Coccodentalium gemmiparum* (Melvill, 1909) (*vide* Scarabino 1995: 264). Indo-Pacific: Diego Garcia to Philippines and New Caledonia. 240-2250 m.
- georgiense*, *Dentalium* (*Antalis*) *occidentale* Henderson, 1920: 43. Recent. Georges Bank [Massachusetts], *Albatross* stn 2079, 41°13'N, 66°19'50"W, 75 fms [137 m]. Syntypes (of *Dentalium occidentalis sulcatum* Verrill, 1884) USNM 38398 (1; USBF 2079, 75 fms [137 m]), USNM 35093 (4; USBF 2077, 1255 fms [2290 m]). Replacement name for *Dentalium occidentalis sulcatum* Verrill, 1884, a junior homonym of *Dentalium sulcatum* Lamarck, 1818. Synonym of *Antalis occidentalis* (Stimpson, 1851) (*vide* Pilsbry & Sharp 1897: 48, 49).
- † *germanicum*, *Dentalium* Chenu, 1843: pl. 5, fig. 15a, b (name and figure only). Type locality not specified. Remarks: Chenu (1852: 7), in the text, instead used *Dentalium striatum* Lamarck, 1818 for the specimen figured as "*D. germanicum*". However, Lamarck's name is a junior homonym of *D. striatum* Born, 1778 and a junior synonym of *Fissidentalium rectum* (Gmelin, 1791). Pilsbry & Sharp (1898: 205) suggested that this was "evidently a European Tertiary species".
- † *gibba*, *Cadulus ovulum* var. Seguenza, 1879: 276. Pliocene. Reggia, Calabria, Italy. Senior homonym of *Cadulus gibbus* Jeffreys, 1883.
- gibbosus*, *Cadulus* (*Polyschides*) Verco, 1911a: 213, pl. 26, fig. 6. Recent. Off Cape Jaffa, South Australia, 300 fms [548 m]. Holotype SAM D 13729. *Polyschides gibbosus* (Verco, 1911) (*vide* Lamprell & Healy 1998: 168). Indo-Pacific, Australia. 17-2780 m. Remark: the three paratypes mentioned in the original description were not located.
- gibbus*, *Cadulus* Jeffreys, 1883: 666, pl. 49, fig. 10. Recent. Type locality not specified. Syntypes BMNH 1885.11.5.1287 (1; *Porcupine* stn 13, 40°16'N, 9°37'W, 217 fms [396 m]), USNM 175858 (1; Bay of Biscay, *Travailleur*). *Cadulus gibbus* Jeffreys, 1883. Junior homonym of *Cadulus ovulum* var. *gibba* Seguenza, 1879. Eastern Atlantic: British Islands, Bay of Biscay. 396 m. Remark: the authors intend to submit a petition to the International Commission of Zoological Nomenclature, pursuant to ICZN (1999) article 23.9.3, to preserve Jeffreys' name.
- giganteum*, *Dentalium* Phillips, 1829. Not a scaphopod. See Other taxa described as Scaphopoda.
- giganteum*, *Dentalium* "?" Zenker, 1836: 232. Tertiary. Flohberge (Mühlthal), near Jena, Germany. Types not located. Junior homonym of *Dentalium giganteum* Phillips, 1829. Remark: the lack of type material and an illustration in combination with the short description renders this a dubious species for which we prefer not to introduce a replacement name.
- giganteum*, *Dentalium* Chenu, 1842: pl.1, fig. 3; 1850: 4. "Fossil" [type locality not specified]. Types not located. Junior homonym of *Dentalium giganteum* Phillips, 1829. Replacement name: *Dentalium rex* Pilsbry & Sharp, 1898.
- giganteum*, *Dentalium* J. de C. Sowerby, 1846: 263, pl. 2, fig. 1. Tertiary. Navidad, Chile. Types not located. Junior homonym of *Dentalium giganteum* Phillips, 1829 and *D. giganteum* Chenu, 1842. Replacement name: *Dentalium subgiganteum* d'Orbigny, 1852.
- gigas*, *Dentalium* Jeffreys, 1870b: 432. *Nomen nudum*.
- † *girtyi*, *Plagiolypta* Knight, 1940: 315, pl. 6, fig. 2. Late Permian, Whitehorse Group, Rush Springs Formation, Dozier Sandstone Member. Dolomite beds at base of Dozier, Localities 7a (Collingsworth County) and 8a (6 miles S of Memphis, at summit of Hogback Butte, Hall County), Texas, USA.

- Holotype YPM 15336; paratype YPM 50071 (*vide* White *et al.* 1999: 43).
- † *glabellum*, *Dentalium* Blake, 1907: 101, 102, pl. 9, fig. 12 [*nomen nudum* in Bean 1839: 62]. Jurassic. Cornbrash, Scarborough, England, United Kingdom. Holotype BMNH G.16996.
- † *glabratum*, *Antale* Stoliczka, 1868: 445, pl. 27, figs 24, 25. Cretaceous. Ootator group. Odium, India.
- glabrum*, *Dentalium* Montagu, 1803. Not a scaphopod. See Other taxa described as Scaphopoda.
- glabrum*, *Dentalium* Geinitz, 1842: 74, pl. 18, fig. 28; 1843: 11, pl. 1, fig. 27. Upper Cretaceous. Tisa [Tyssa], Bohemia, Czech Republic. Junior homonym of *Dentalium glabrum* Montagu, 1803. Replacement name: *Dentalium ovosectum* Sharp & Pilsbry in Pilsbry & Sharp, 1898.
- glabrum*, *Dentalium* Fuenzalida, 1942: 412, 423, 425. Tertiary. Brunswick Peninsula, Patagonia, Chile. *Nomen nudum*. Remark: Feruglio (1949b: 160) cited this name, but did not make it available.
- † *gladiolus*, *Dentalium* Eichwald, 1846: 447. Jurassic. Goliowo, Dorogomilow, Mniowniki and Khoroshowo, near Moscow; Mount Worobyew; Jelatma on the Oka River, near Antonowo-Poustosch, Russia. Junior synonyms: *Dentalium subanceps* Trautschold, 1861 (*vide* Eichwald 1868: 799; Pilsbry & Sharp 1898: 223). Remarks: Eichwald's original description was cursory; the locality information herein is from the subsequent re-description (Eichwald 1868: 799, 800). This species was misidentified as *Dentalium cylindricum* by G. Fischer (1843).
- glans*, *Cadulus* Scarabino, 1995: 350, 351, figs 155, 160g. Recent. New Caledonia, Loyalty Basin, RV *Coriolis*, BIOGEOCAL, stn KG 227, 21°33'S, 166°24'E, 500 m. Holotype MNHN and 7 paratypes (2 from stn KG 219; 5 from *Vauban* stn 40). *Cadulus glans* Scarabino, 1995. Indo-Pacific: New Caledonia. 250-570 m.
- glaucaarena*, *Dentalium* (*Antalis*) Dell, 1953: 48, figs 16, 18, 21. Recent. Chatham Rise, *Discovery II* stn 2733, 45°48'S, 178°58'W, 200-300 fms [365-548 m]. Holotype NMNZ M5678; paratypes NMNZ M5679 (5). *Antalis glaucaarena* (Dell, 1953) (*vide* Scarabino 1995: 236). Indo-Pacific, New Zealand. 365-602 m.
- † *glaucoterrarum*, *Dentalium* Maury, 1917: 323 [159], pl. 52 [26], fig. 4. Miocene. Rio Gurabo at Los Quemados, Dominican Republic.
- † *gnizum*, *Dentalium* de Gregorio, 1890: 173, pl. 17, figs 42, 43. Eocene. Claiborne, Alabama. Remark: "Probably a young *Cadulus*. Unrecognizable" (*vide* Pilsbry & Sharp 1898: 205).
- gofasi*, *Laevidentalium* Scarabino, 1995: 294, 295, figs 99, 102a. Recent. Philippines, RV *Coriolis*, MUSORSTOM 2, stn CP 70, 14°01'N, 120°17'E, 191 m. Holotype MNHN; paratypes MNHN (8; 1 from stn CP 70; 2 from stn CP 68; 1 from stn CP 83; 1 from stn CP 97; 3 from stn CP 102), AMS C201728 (1; stn CP 96), USNM 890869 (1; stn CP 20). *Laevidentalium gofasi* Scarabino, 1995. Indo-Pacific: Philippines to New Caledonia. 195-320 m.
- gofoni*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 45, 46, figs 37C, 38E, 41. Recent. Middle Banks, Moreton Bay, Queensland, Australia, 31 m. Holotype QM MO38982; paratypes AMS C172168 (2), MV 68195 (2), WAM 283-93 (2), QM MO38996 (2; Redland Bay, south Queensland), QM MO38983 (11; Dunwich, Stradbroke Island, Moreton Bay, south Queensland), AMS C169791 (2); Shoal Point, Mackay, north Queensland). *Dentalium gofoni* Lamprell & Healy, 1998. Indo-Pacific: Queensland, Australia. 2-183 m.
- † *golovtschenki*, *Dentalium* Makarenko, 1970: 111, 112, text-fig. 11, pl. 22, figs 6-9. Paleocene. Luzanovka, northern Ukraine. Holotype Akademiai Nauka Ukraine (Kiev), No. 17/50.
- † *gonatodes*, *Dentalium* Martin, 1885: 192, pl. 10, fig. 194; 1887: 192, pl. 10, fig. 194. Pliocene/Quaternary. Samarang and Batavia (Jakarta), Java, Indonesia. Syntypes RGM 7280 (1), RGM 7281 (2), RGM 7278 (3), RGM 7279 (1) (*vide* Van den Hoek Ostende *et al.* 2002: 111). *Dentalium* (*Laevidentalium*) *gonatodes* Martin, 1885 (*vide* Martin 1919: 118).
- gordonis*, *Cadulus* Yokoyama, 1920. Not a scaphopod. See Other taxa described as Scaphopoda.
- goreanum*, *Dentalium* Clessin, 1896. Not a scaphopod. See Other taxa described as Scaphopoda.
- gouldii*, *Dentalium* Dall, 1889: 424, 425, pl. 26, fig. 4. Recent. 12 miles E from Frying Pan Shoals, South Carolina, 12 fms [22 m]. Lectotype USNM 82997 (designated by Henderson 1920: 30); paralectotypes USNM 94085 (USFC stn 2145; now the holotype of *Dentalium gouldii colonense* Henderson, 1920), MCZ 7707 (Blake stn 65). Synonyms: *Dentalium sexangulare* Hilgard & Hopkins, 1878 non Lamarck, 1818 (*vide* Pilsbry & Sharp 1897: 21), *Dentalium gouldii colonense* Henderson, 1920, *Dentalium gouldii portoricense* Henderson, 1920. *Dentalium gouldii* Dall, 1889. Western Atlantic: South Carolina (USA) and Bermuda to Brazil (doubtful record from the coast of West Africa by Thomas 1975: 292; Nicklés 1979: 48). 10-76 m.
- gracile*, *Dentalium* Moore, 1866: 86, pl. 5, fig. 23. Jurassic, Middle Liassic. Camerton, England, United Kingdom. Holotype in Bath Museum (England) (*vide* Richardson 1906: 576, pl. 45, fig. 19). Junior homonym of *Dentalium gracilis* Hall & Meek, 1855. Remark: a junior synonym of *Dentalium elongatum* Goldfuss, 1841 (*vide* Woodward 1893: 352; Richardson 1906: 575).
- gracile*, *Dentalium* Jeffreys, 1870a: 74. Recent. Mediterranean, 310 fms [566 m]; Aegean Sea, 100-250 fms [183-456 m]; Vigo, Spain. Syntypes:

- USNM 175979 (E of Malta, 310 fms [566 m]), USNM 175977 (Aegean Sea, 100-250 fms [183-456 m]). Junior homonym of *Dentalium gracilis* Hall & Meek, 1855 and *Dentalium gracile* Moore, 1866. Junior synonym of *Episiphon filum* (Sowerby, 1860) (*vide* Jeffreys 1883: 661).
- gracile*, *Dentalium* Philippi, 1887a: 107, pl. 12, fig. 15; 1887b: 101, pl. 12, fig. 15. Tertiary. Navidad, Chile. Junior homonym of *Dentalium gracilis* Hall & Meek, 1855, *Dentalium gracile* Moore, 1866 and *Dentalium gracile* Jeffreys, 1870. Replacement name: *Dentalium navidadense* Pilsbry & Sharp, 1898: 210. Remark: *Dentalium philippii* Cossmann, 1907; an unnecessary replacement name.
- gracile*, *Dentalium* Grönwall & Harder, 1907: 36, pl. 1, fig. 19. Paleocene. Jutland, Denmark. Junior homonym of *Dentalium gracilis* Hall & Meek, 1854, *Dentalium gracile* Moore, 1866, *Dentalium gracilis* Jeffreys, 1870, *Dentalium gracilis* Philippi, 1887; replacement name: *Dentalium subgracile* Emerson, 1954.
- † *gracilicostatum*, *Dentalium* (*Fissidentalium*) Singleton, 1943: 275-276, pl. 12, fig. 6, pl. 13, fig. 9. Lower Eocene. Pebble Point Beds, Coastal Cliffs, 2.5 miles southeast of Princetown, Victoria, Australia. Holotype NMV P127989 (formerly Melbourne University Geology Department 1871). *Fissidentalium gracilicostatum* (Singleton, 1943) (*vide* Darragh 1997: 92, 93).
- † *gracilina*, *Cadulus* (*Gadila*) Sacco, 1897: 117, pl. 10, figs 86, 87 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. Turin hills and San Agata, Italy. Lectotype MIGT BS.106.12.009 (selected by Pavia 1991: 144); paralectotype BS.106.12.008 (*vide* Ferrero Mortara *et al.* 1984: 311, pl. 56, fig. 2). *Gadila gracilina* (Sacco, 1897) (*vide* Pavia 1991: 144, 145, pl. 8, figs 1-4).
- gracilis*, *Cadulus* Jeffreys, 1877: 157. Recent. *Valorous* stn 13, 56°01'N, 34°42'W, 690 fms [North Atlantic, 1259 m]. Holotype USNM 175853. *Cadulus gracilis* Jeffreys, 1877. Eastern Atlantic: Greenland to Portugal. 453-1998 m. Remarks: Jeffreys referred to a single specimen from *Valorous* stn 13. However, Warén (1980: 52) stated that the type locality was not specified and listed additional syntypes: BMNH 1885.11.5.1300-1301 (*Porcupine* 1870 stns 16-17a [off Portugal]; stn 16: 39°55'N, 9°56'W, 994 fms [1723 m]; stn 17: 39°42'N, 9°43'W, 600-1095 fms [1095-1998 m]; stn 17a: 39°39'N, 9°39'W, 740 fms [1351 m]), USNM 175854 (*Valorous* stn 16, 55°10'N, 25°58'W, 1785 fms [Greenland, 3258 m]), USNM 175855 (*Porcupine* 1870 stn 17, 39°42'N, 9°43'W, 600-1095 fms [1095-1998 m]), USNM 175856 (*Porcupine* 1870 stn 19a, Portugal). The lot BMNH 1885.11.5.1300 is labeled "figd. syntyp". Warén (*in litt.* 10.II.2000) explained this discrepancy: "Jeffreys listed material from the *Lightning* and *Porcupine* expeditions for most new molluscs in the 'New and peculiar...' series. He also had specimens of *Cadulus gracilis*, as listed later in the report on these expeditions. I therefore considered it an omission from his side, not to mention these".
- † *gracilis*, *Dentalium* Hall & Meek, 1855: 393, pl. 3, figs 11a-11c. Cretaceous. Sage Creek, "Nebraska" (Montana and Wyoming?), USA. *Dentalium gracile* Hall & Meek, 1855 (*vide* Pilsbry & Sharp 1898: 197).
- † *gracilis*, *Episiphon* Garvie, 1996: 45, 46, pl. 9, figs 7, 8. Eocene. Lower Claibornian, Reklaw Formation, Marquez Member. Locality 4, Bluff on Ridge Creek, Texas, USA. Holotype PRI 30310; paratypes PRI 30311, PRI 30312.
- † *gracillima*, *Dentalium* (*Coccodentalium*) radula var. Sacco, 1897: 111, pl. 10, figs 16-18 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. San Agata, Italy. Syntypes MIGT BS.106.04.010, BS.106.04.011 (*vide* Ferrero Mortara *et al.* 1984: 308).
- gradile*, *Paradentalium* Chistikov, 1979a: 109, 111, fig. 1. Recent. Vietnam. Orlik stn 203, 20°44'N, 112°13'E, 60 m. Holotype ZIN; paratype MMSU. *Paradentalium gradile* Chistikov, 1979. Indo-Pacific: Vietnam. 60-106 m.
- grahamense*, *Dentalium majorinum* var. Odhner, 1931: 4. Recent. Antarctica, Graham Land, 65°19'S, 56°48'W, 400 m. Syntypes SMNH 4193. Synonym of *Dentalium majorinum* Mabilie & Rochebrune, 1889.
- grahami*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 23-25, figs 9E, 10E, 16, 17D-F. Recent. Off Clarence River, New South Wales, Australia, 29°25'S, 153°22'E, 37-55 m. Holotype AMS C174892; paratypes AMS C154599 (1), AMS C173469 (1; 29°39.8'S, 153°26.4'E, south of Yamba, New South Wales, 55 m), AMS C154602 (55; off Solitary Island, New South Wales, 29°50-53'S, 153°24-23'E, 54-58 m), AMS C169957 (1; Keppel Bay, southern Queensland, 54 m), AMS C169958 (2; Keppel Bay, southern Queensland, 54 m). *Dentalium grahami* Lamprell & Healy, 1998. Indo-Pacific: eastern Australia. 28-80 m.
- † *granadanum*, *Dentalium* Anderson, 1929: 144, pl. 13, fig. 3. Miocene. CAS locality 267, Las Perdices Group, 1 mile W of Puerto Colombia, northern Colombia. Holotype CAS 4638.
- † *grandaevum*, *Dentalium* Winchell, 1863: 18. Carboniferous. Burlington, Iowa, USA.
- † *grande*, *Dentalium* Deshayes, 1825: 365, pl. 17, figs 1-3. Eocene. Grignon, La Chapelle near Senlis and Valmondois, Paris Basin, France. Remarks: a valid species of *Fissidentalium* (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85). This name has been inappropriately used by Nyst (1836: 103) for a species subsequently described as *Dentalium acutum* Hébert, 1849 (*vide* Pilsbry & Sharp 1898: 197; *Dentalium nystii* d'Orbigny, 1852 is a junior synonym), and by Abich (1858: 561 [25]) for a species tentatively synonymized with *Dentalium trauscholdi* Koenen, 1868 (*vide* Koenen 1868: 160).

- grandis*, *Cadulus* Verrill, 1884: 219, pl. 44, fig. 20. Recent. 230 miles E of Martha's Vineyard [Massachusetts], USBF stn 2076, 41°13'N, 66°00'50"W, 906 fms [1651 m]. Syntypes USNM 34735 (16, USBF stn 2076), USNM 35184 (USBF 2084, 1290 fms [2354 m]), USNM 38116 (USBF 2103, 1091 fms [1991 m]); MCZ 186804 (2); further locations in original description: USBF 2052, 1098 fms [2004 m]; USBF 2111, 938 fms [1712 m]; USBF 2115, 843 fms [1538 m]; and USBF 2043, 1467 fms [2677 m]). *Polyschides grandis* (Verrill, 1884) (*vide* Pilsbry & Sharp 1898: 154). Western Atlantic. 1538-2677 m.
- † *grandis*, *Eodontalium* Medina & del Valle, 1985: 3-5 (Spanish), 3, 4 (English), pl. 1, figs a-f, i-k, p, q. Upper Cretaceous, Sobral Formation. Marambio Island, James Ross Group Islands, Antarctica. Holotype CIRGEO (Centro de Investigaciones en Recursos Geológicos) PI 247 (now housed in Museo Argentino de Ciencias Naturales, Buenos Aires, *vide* G. Pastorino *in litt.* 17.I.2001).
- † *granosa*, *Entalis* Martin, 1885: 193, 194, pl. 10, fig. 196; 1887: 193, 194, pl. 10, fig. 196. Miocene. Ngembak, Java, Indonesia. Syntype RGM 7275 (*vide* Van den Hoek Ostende *et al.* 2002: 111). Remarks: Van den Hoek Ostende *et al.* (2002: 111) listed this species in *Dentalium*, following two published checklists. If this transfer from *Antalis* (the senior synonym of *Entalis*, is accepted, then *Dentalium granosum* (Martin 1885) is a junior secondary homonym of *D. granosum* Eichwald, 1857, and will need to be renamed. We have not renamed this taxon, as further study is merited.
- † *granosum*, *Dentalium* Eichwald, 1857: 584. Silurian ["Grauwackenkalksteine"]. Pulkowa [Poulkova], Russia. Remarks: figured by Eichwald 1860: 1061, pl. 40, fig. 7. Koken (1897: 214) remarked that the shape of the shell of this species was completely divergent from that of *Dentalium* ("die Structur dieser Röhren ist ganz abweichend von der eines *Dentalium*"), and questioned whether this species was referable to the Scaphopoda.
- † *granvillensis*, *Dentalium* Herrick, 1888: 92. Paleozoic ("Subcarboniferous"). Granville, Licking County, Ohio, USA.
- greenlawi*, *Cadulus* (*Platyschides*) Henderson, 1920: 123, 124, pl. 18, fig. 11. Recent. Off Fowey Light, Florida, *Eolis* stn 380, 130 fms [237 m]. Holotype USNM 314767. *Gadila greenlawi* (Henderson, 1920). Known from type locality only.
- † *groenlandicum*, *Dentalium* Ravn, 1918: 354, 355, pl. 8, figs 3, 4. Cretaceous. Ata and Niakornat, Nugsuak-Halvö, western Greenland.
- † *groenlandicus*, *Cadulus* Ravn, 1918: 356, pl. 8, fig. 8. Cretaceous. Alianaitunguak, Nugsuak-Halvö, western Greenland.
- † *grossheimi*, *Dentalium* Merklin, 1961: 156, 157, text-fig. 1. Middle Eocene. Northern Caucasus, Goryachiy Kluych, near Krasnodar, Russia.
- gruveli*, *Dentalium* (*Laevidentalium*) Dautzenberg, 1910: 109, 110, pl. 3, figs 21-23. Recent. Baie de Cansado [Mauretania] (1908); Baie de Cansado [Mauretania], 6-8 m (1909); 5 milles E de la Pointe du Repos [Mauretania], 9-10 m; Baie de Rufisque [Senegal], 18-20 m; W[est] du Cap Rouge [Ghana]. Syntypes MNHN (2 lots from Baie de Cansado and 1 from Cap Rouge). *Fustiaria*(?) *gruveli* (Dautzenberg, 1910) (*vide* Nicklès 1979: 59). Eastern Atlantic: Africa. 6-20 m.
- † *gucuoensis*, *Dentalium* Yao, 1990: 31, 32, pl. 1, figs 1-3, 5-8. Lower Cretaceous, Gucuo II Formation. Gucuo village, Nyalam, southern Xizang [Tibet], China. Holotype (XG886-19) and paratypes, Institute of Geology, Chinese Academy of Geological Sciences, Beijing.
- † *guidottii*, *Dentalium* Sacco, 1897: 95 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Rivalta, Piacenza, Italy. Replacement name for *Dentalium deshayesii* Cocconi, 1874, a junior homonym of *Dentalium deshayesii* Risso, 1826.
- guillei*, *Antalis* Scarabino, 1995: 235, figs 43, 45k. Recent. Réunion, Indian Ocean, MD32, stn DC 136, 20°46'S, 55°36'E, 915-922 m. Holotype MNHN; paratypes MNHN (11; 4 from stn 136; 7 from stn DC 46), NM (1; stn DC 56). *Antalis guillei* Scarabino, 1995. Indian Ocean: Réunion. 150-915 m.
- † *guineense*, *Dentalium* (*Laevidentalium*) Adegoke, 1977: 62, 63, pl. 5, figs 15-18. Paleocene, Ewekoro Formation. Nigeria. Holotype UIMG 176; paratypes UIMG 177; USNM Paleobiology 174763, 174764, PRI 29764-PRI 29769.
- † *guizhouensis*, *Plagiogypta* Stiller, 2001: 623-626, figs 4, 5.5-5.7. Upper Anisian, Middle Triassic. Bangtoup, NNE of Qingyan, Guizhou Province, southwestern China. Holotype GPIM B6D-1.S2.F35-1; paratype GPIM B6D-1.S2.F35-2.
- habutae*, *Dentalium* Kuroda & Kikuchi, 1933: 8, pl. 1, figs 12, 13, text-figs 3, 4. Recent. Toyama Bay, Japan, 150-350 m. Types in FGK. Junior synonym: *Dentalium tessellatum* Scarabino, 1995 (V. Scarabino, n. syn.). *Entalinopsis habutae* (Kuroda & Kikuchi, 1933) (*vide* Habe 1957: 13). Indo-Pacific: Japan. 93-350 m.
- † *haeringense*, *Dentalium* Dreger, 1892: 12, pl. 1, figs 2a, 2b. Pliocene? Häring, near Kirchbichl, Tirol, Austria. Junior synonym of *Coccodentalium trautscholdi* Koenen, 1868 (*vide* Merklin & Goncharova 1967: 118).
- halius*, *Cadulus* (*Cadulus*) Henderson, 1920: 149, pl. 20, fig. 12. Recent. Off English Harbor, Antigua, 120 fms [219 m]. Holotype USNM 596599; paratypes USNM 314936, AMNH 148332 (1). Junior synonym of *Cadulus podagrinus* Henderson, 1920 (n. syn., by First Reviser action herein). Known from type locality only.
- hamatum*, *Dentalium*? Forbes, 1846. Not a scaphopod. See Other taxa described as Scaphopoda.

- “*hamatus*”, *Dentalium* – Conrad 1870b. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *hancocki*, *Dentalium* (*Tesseracme*) Emerson, 1956: 3-6, fig. 1. Recent. One-half mile SE of Hughes Point, Santa Maria Bay, Baja California, Mexico, 24°44'31"N, 112°14'59"W, 11 fms [20 m]. Holotype LACM 1758; paratypes LACM 2887 (2; off Punta Penasco, Sonora, 11 fms [20 m]), LACM 2888 (1; 2.25 miles SE of Cape Pulmo, Baja California, Mexico, 20 fms [37 m]), LACM 2889 (1; Agua Verde Bay, Baja California, Mexico, 20 fms [37 m]). *Tesseracme hancocki* (Emerson, 1956). Eastern Pacific: Mexico. 9-36 m.
- † *hanguense*, *Dentalium* Cox, 1931: 203, 204, pl. 21, figs 12, 13. Tertiary. Hangu Shales, Samana Range, India. Holotype Geological Survey India 14703; paratype Geological Survey India 14702.
- † *hannai*, *Dentalium* Baker, 1925: 84, 85, pl. 10, figs 4, 5. Recent. Baja California Norte; Pacific coast, Islas Los Coronados, c. 1 mi S of South Coronado Island, [10-18 fms, 18-33 m]. Holotype CAS 066343; paratypes CAS 060763, SDNHM 1788, SDNHM 1789, SDNHM 1811 (*vide* Hertz 1994: 11), UCM 23659 (*vide* Wu & Brandauer 1982: 40). Junior synonym of *Graptacme semistriata* (Turton, 1819) (*vide* Keen 1971: 886, as *Dentalium* (*Graptacme*) *semipolatum*).
- † *hannonicum*, *Dentalium* Briart & Cornet, 1889: 81. Upper Eocene. Mons, Belgium.
- † *harrisoni*, *Fissidentalium* (*Pictidentalium*) *formosum* Habe, 1970: 95, figs 1, 2. Recent. South China Sea. Holotype NSMT Mo 37303; paratype NSMT Mo 37304. Synonym of *Pictidentalium formosum* (Adams & Reeve, 1850) (*vide* Scarabino 1995: 267).
- † *hatterasensis*, *Cadulus* (*Gadila*) *agassizii* var. Sharp & Pilsbry in Pilsbry & Sharp, 1898: 169, 170, pl. 33, figs 50-54. Recent. Off Cape Hatteras [North Carolina], 35°19'30"N, 75°14'12"W, 293 fms [535 m]. Syntypes ANSP 35578. Synonym of *Gadila agassizii* (Dall, 1881) (n. syn.).
- † *haytensis*, *Dentalium* Gabb, 1873: 244. Miocene. Dominican Republic. Lectotype ANSP 2715 (selected by Woodring 1925: 203 as “holotype”); paralectotype ANSP 79219. *Laevidentalium haytense* (Gabb, 1873) (*vide* Woodring 1925: 202, 203).
- † *healyi*, *Dentalium* n. nom. Recent. Darnley Island, Torres Straits [northern Australia], 30 fms [55 m]. Holotype AMS C170764. Replacement name for *Dentalium duodecimcostatum* Brazier, 1877 non *Dentalium duodecimcostatum* d'Archiac, 1850. *Dentalium healyi* Steiner & Kabat, 2004. Indo-Pacific: northern Australia. 9-500 m.
- † *hedleyi*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 23, figs 9D, 10D, 15. Recent. Swain Reefs, Queensland, Australia, dredged off sand bottom. Holotype AMS C171343; paratypes AMS C151517 (15 full specimens, 84 broken pieces, SE of Swain Reefs, Queensland, 22°31.4'S, 152°32.6'E, 100 m). *Dentalium hedleyi* Lamprell & Healy, 1998. Indo-Pacific: Queensland, Australia. 1-100 m.
- † *helveticum*, *Dentalium sexangulum* “mut.” Cossmann & Peyrot, 1917: 160, 161, pl. 1, figs 1-3. Miocene, Helvetian. Salles (Largileyre), France.
- † *helveticum*, *Siphonodentalium* (*Dischides* “?”) Cossmann & Peyrot, 1917: 186, pl. 2, figs 11-13. Miocene, Helvetian and Tortonian. Orthez (Le Paren), Sallespisse, Salles (Largileyre) and Saubrigues, France.
- † *hemigymnum*, *Dentalium* (*Antale*) *degrangei* var. Cossmann & Peyrot, 1917: 165, pl. 1, figs 25, 26. Miocene, Helvetian. Salies-de-Béarn, La Sime and Orthez (Houssé), France.
- † *hemileuron*, *Dentalium* Verco, 1911a: 208, pl. 26, fig. 2. Recent. Off Cape Jaffa, South Australia, 300 fms [549 m]. Holotype SAM D 13727; paratypes USNM 251985 [BMNH 1913.4.30.6-9, possible paratypes]. Junior synonym: *Dentalium tignum* Colman, 1958 (*vide* Lamprell & Healy 1998: 29). *Paradentalium hemileuron* (Verco, 1911) (*vide* Cotton & Godfrey 1933: 139). Indo-Pacific: South Australia. 0-1463 m.
- † *hendersoni*, *Cadulus* (*Gadilopsis*) Woodring, 1925: 207, pl. 28, fig. 4. Miocene. Bowden, Jamaica. Holotype USNM Paleobiology 352724. Junior synonym of *Gadilopsis dentalina* (Guppy, 1867) (*vide* Woodring 1973: 487). Remark: Woodring (1973: 487) concluded that this “should be treated as a form of *C. dentalinus*. Whether it is a subspecies or an infrasubspecific form is indeterminable”.
- † *hepburni*, *Cadulus* Dall, 1897: 12, 13, pl. 1, fig. 13. Recent. Near Victoria, Vancouver Island, British Columbia, 60 fms [110 m]. Lectotype USNM 107612 (designated by Shimek 1989: 234). Junior synonym of *Gadila aberrans* (Whiteaves, 1887) (*vide* Shimek 1989: 234). Remark: the lectotype designation by Shimek was probably unnecessary because he stated that the USNM 107612 is “1 specimen, a paratype, the figured type”; furthermore, there is no indication in Dall’s original description that he had more than one specimen. If there were no other syntypes, then this specimen is the holotype.
- † *heptagonum*, *Dentalium* Boettger, 1882: 140, pl. 12, figs 5a, 5b. Oligocene. Bawang River, Residenz Djokjakarta, Java, Indonesia.
- † *herculeum*, *Dentalium* de Koninck, 1863: 8, pl. 4, figs 10-12. Carboniferous. Salt Range, India. Remarks: Pilsbry & Sharp (1898: 231) listed *Entalis herculea* Waagen, “1887” as a junior synonym, but Waagen (1890: 181) is merely a new generic combination for de Koninck’s species. *Plagioglypta herculea* (de Koninck, 1863) (*vide* Waterhouse 1980: 198).
- † *herritschi*, *Dentalium* Gugenberger, 1934: 44, pl. 1, fig. 10 [*nomen nudum* in Gugenberger 1933a: 102; 1933b: 184]. Triassic. North of Launsdorf, Austria. *Prodentalium herritschi* (Gugenberger, 1934) (*vide* Stiller 2001: 630).

- heteroschides*, *Cadulus (Polyschides)* Niino & Habe (MS) in Habe & Kosuge, 1964: 11. Recent. Off Phuket, Malaya Archipelago. 50-80 m. *Nomen nudum*.
- † *hexagonale*, *Dentalium* Richardson, 1906: 581, pl. 45, fig. 1. Jurassic, Sinemurian-Pliensbachian. Gasworks, Gloucester, England, United Kingdom. Remark: Engeser & Riedel (1992: 37) stated that “the features described and figured by Richardson (1906) do not coincide with the diagnosis of any known scaphopod genus”.
- hexagonum*, *Dentalium* Gould, 1859: 166. Recent. Hong Kong [China]. Lectotype USNM 2053 (designated by Johnson 1964: 88, as “holotype”); paralectotype MCZ 169184. Junior synonyms: *Dentalium sexcostatum* Sowerby, 1860; *Dentalium minus* Boissevain, 1906 (fide Scarabino 1995: 218). *Paradentalium hexagonum* (Gould, 1859) (fide Kira 1954: 80). Indo-Pacific: China to Australia. 16-296 m. Remarks: the synonymization of *Dentalium sexcostatum* and *Dentalium minus* with this species by Scarabino (1995) was not followed by Lamprell & Healy (1998). Both publications rejected the synonymization with *Dentalium octangulatum* Donovan, 1804 by Nomura (1938)
- hexagonum*, *Dentalium* Van Ingen, 1905: 363, pl. A, fig. b; pl. B, figs 1, 2. Late Cretaceous, Senonian. Near Kerak, Jordan Valley, Syria. Syntype YPM 35573 (fide White 1998: 4). Replacement name: *Dentalium vaningeni* n. nom.
- hexangulare*, *Dentalium* Risso, 1826a: 125. Fossil. Near Nice, France. *Nomen nudum*.
- † *hexapleuron*, *Dentalium* Kaunhowen, 1897: 13, pl. 1, fig. 2. Cretaceous, Maestrichtian. Kunraed, Germany.
- hexaschistus*, *Cadulus (Polyschides)* Boissevain, 1906: 67, 68, pl. 6, fig. 53, text-figs 32, 32a. Recent. Ceram Sea, *Siboga* stn 178, 02°40'S, 128°37.5'E, 835 m. Holotype ZMA 3.06.090. *Siphonodentalium hexaschistum* (Boissevain, 1906) (fide Scarabino 1995: 330). Indo-Pacific: Red Sea to New Caledonia. 528-1740 m. Remark: the designation of ZMA 3.06.178 as the lectotype by Scarabino (1995: 330) is unnecessary, since Boissevain indicated that the species was described from a single specimen.
- hige*, *Pulsellum* Habe, 1963: 273, 275, text-figs 47, 48. Recent. Zushi, Kanagawa Pref. Honshu, 350 m. Holotype and paratype in NSMT. *Pulsellum hige* Habe, 1963. Indo-Pacific: Japan. 5-350 m. Remarks: name for *Siphonodentalium (Pulsellum) ozawai* sensu Hirase (1931: 140) non Yokoyama, 1926. Otuka (1935: 880) and Nomura & Hatai (1940: 74) reported this species from the Recent fauna of Japan.
- hillae*, *Dentalium (Dentalium)* Lamprell & Healy, 1998: 59, figs 53C, 54C, 57. Recent. SW of Scott Reef, 410 km N of Broome, northern Western Australia, 14°39'S, 121°29'E, 500 m. Holotype AMS C169776. *Dentalium hillae* Lamprell & Healy, 1998. Known from type locality only.
- hintoni*, *Dischides* Lamprell & Healy, 1998: 167, 168, figs 174B, 175A, 177. Recent. 3 km NW of west side of Gillett Cay, Swain Reef, Queensland, Australia, 80 m. Holotype AMS C174894; paratypes AMS C173611 (28). *Dischides hintoni* Lamprell & Healy, 1998. Known from type locality only. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *D. hintoni* Lamprell & Healy, 1998 vis-à-vis *Cadulus aratus* Hedley, 1899 requires further research.
- hirasei*, *Dentalium (Pictodentalium) formosum* subsp. Kira, 1959: 105, pl. 40, fig. 11. Recent. Southern Japan, 20 fms [37 m]. *Nomen nudum* in Kira (1954: 80) (fide Bieler & Petit 1990: 141). Junior synonym of *Pictodentalium formosum* (Adams & Reeve, 1850) (fide Scarabino 1995: 267).
- † *hoernesii*, *Gadila* Boettger, 1902: 182. Tertiary. Baden, near Vienna, Austria. Holotype SMF XIII.7a (fide Zilch 1934: 278, 279, pl. 22, fig. 25). *Cadulus (Gadila) hoernesii* (Boettger, 1902) (fide Zilch 1934: 278, 279).
- honoluluensis*, *Cadulus* Watson, 1879: 89, 90 [Watson 1886: 17, pl. 2, fig. 10]. Recent. Reefs off Honolulu, Hawaii, 40 fms [72 m]. Holotype BMNH 1887.2.9.70. *Gadila honoluluensis* (Watson, 1879) (fide Pilsbry & Sharp 1898: 185). Known from type locality only.
- horikoshii*, *Fissidentalium* Okutani, 1982: 1-3; figs 1-5. Recent. East of Kinkazan [Japan], *Soyo-maru* stn R3, 38°21.7'N, 143°25.6'E, 2930-3020 m. Holotype NSMT Mo.59950; paratypes NSMT Mo.59951-52. *Fissidentalium horikoshii* Okutani, 1982. Indo-Pacific: Japan to eastern Australia. 1615-3500 m.
- hosoi*, *Dentalium* Habe, 1963: 263, text-figs 4-6. Recent. Off Tosa Bay, Shikoku, “deep bottom”. Holotype and paratype in NSMT. *Striodentalium hosoi* (Habe, 1963) (fide Habe 1964: 23). Indo-Pacific: Japan. 200-760 m.
- houbricki*, *Laevidentalium* Scarabino, 1995: 295, 296, figs 100, 102d. Recent. New Caledonia, secteur de Poindimie, LAGON stn 835, 20°47'S, 165°17'E, 135-150 m. Holotype MNHN; paratypes MNHN (7; 2 from stn 835; 5 from stn 858), AMS C201729 (1; stn 858), NMNZ M268955 (1; stn 858), USNM 890861 (1; stn 858). *Laevidentalium houbricki* Scarabino, 1995. Indo-Pacific: Indonesia to New Caledonia. 135-220 m. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *L. arnoldi* Lamprell & Healy, 1998 vis-à-vis *L. houbricki* Scarabino, 1995 requires further research.
- houthalenense*, *Dentalium* Goddeeris, 1978: 70, 72. Miocene. Belgium. *Nomen nudum*.
- † *houthalenensis*, *Cadulus (Gadila) benoisti* var. Goddeeris, 1977: 155-157, fig. 1. Miocene. Houthalen Sands, Wijshagen, Belgium. Holotype

- KBINW 5596. *Gadila benoisti houthalensis* (Goddeeris, 1977) (*vide* Janssen 1984: 117, 118, pl. 42, figs 18a, 18b). Remark: Goddeeris (1978: 70) listed *Cadulus benoisti houthalensis* and *Dentalium houthalense* MS as separate taxa.
- howardensis*, *Clavulites* Girty, 1904. Not a scaphopod. See Other taxa described as Scaphopoda.
- howchini*, *Dentalium* (*Paradentalium*) Cotton & Ludbrook, 1938: 224, pl. 12, fig. 6. Lower Pliocene. Abattoirs Bore, South Australia, Australia. Holotype SAM. Junior synonym of *Dentalium* (*Dentalium*) *latesulcatum* Tate, 1899 (*vide* Ludbrook 1956: 1, 2).
- hungarica*, *Gadila* Szöts, 1953 [*ex* Hantken MS]: 81 [Hungarian], 203 [French]. *Nomen nudum*. Remark: under *Cadulus* (*Gadila*) *pseudohungaricus* n. sp., Szöts referred to “La *G. hungarica* Hantk. in coll. est assez abondante [...]”.
- hungerfordi*, *Dentalium* (*Fissidentalium*) Pilsbry & Sharp, 1897: 84, pl. 6, fig. 83. Recent. Hong Kong. Lectotype BMNH 1881.2.1.1 (designated by Scarabino 1995: 258, as “holotype”); paralectotype BMNH 1881.2.1.2. Replacement name for *Dentalium compressum* Sowerby, 1888, a junior homonym of *Dentalium compressum* Watson, 1879, *Dentalium compressum* Meyer, 1884, and *Dentalium compressum* d’Orbigny, 1850. *Compressidentalium hungerfordi* (Pilsbry & Sharp, 1897) (*vide* Habe 1963: 260). Indo-Pacific: Indonesia to Japan. 50-1570 m.
- † *hurupiensis*, *Cadulus* Dell, 1952: 83, 84, fig. 18. Miocene, Tongaporutuan. Hurupi Beds, southern Wairarapa, Palliser Bay, New Zealand. Holotype NMNZ M.5590. *Cadulus* (s.l.) *hurupiensis* Dell, 1952 (*vide* Beu & Maxwell 1990: 424).
- huttoni*, *Dentalium* Kirk, 1880: 306. Recent. Three specimens “from the stomach of a trumpeter (*Latris hecateia*)”. Type locality not specified (although presumably New Zealand). Lectotype NMNZ M261 (designated by Dell 1957: 570); paralectotypes NMNZ M131453. Junior synonym of *Antalis nana* (Hutton, 1873) (*vide* Dell 1957: 570). Remark: Dell (1957: 570) stated the type material was obtained from a fish “probably caught near Wellington”.
- huttoni*, *Dentalium* Bather, 1905: 540, figs 4-7. Carboniferous. New Zealand. Junior homonym of *Dentalium huttoni* Kirk, 1880 (Recent). Replacement name: *Dentalium batheri* Finlay, 1927.
- hyalinum*, *Dentalium* Philippi, 1846: 55. Recent. Mazatlan [Mexico]. Junior synonym of *Graptacme semistriata* (Turton, 1819) (*vide* Pilsbry & Sharp 1897: 91).
- hyalinum*, *Siphodentalium* Brugnone, 1876: 21, fig. 32. Plio-Pleistocene. Monte Ficarazzi, Italy. Holotype UPMN (*vide* R. La Perna *in litt.*). Junior synonym of *Polyschides olivi* (Scacchi, 1835) (*vide* Pilsbry & Sharp 1898: 171). Remarks: Brugnone (1878: 44) transferred this species to “*Helonyx*” [sic, *Helonyx*]. Bellini (1909: 233) listed this as a variety of *Siphonodentalium* (*Gadila*) *gadus*.
- hyperhemileuron*, *Dentalium* Verco, 1911b: 217, 218, pl. 26, figs 3, 3a. Recent. King George Sound, W Australia, 12-35 fms [22-64 m]. Lectotype SAM D 13726 (designated by Zeidler & Macphail 1978: 383, as “holotype”); paralectotypes SAM D 16000 (4) (incorrectly labelled co-types, *vide* Zeidler & Macphail 1978: 383), USNM 251993 (King George Sound, Western Australia, 22-26 m). *Dentalium hyperhemileuron* Verco, 1911. Indo-Pacific: Australia. 22-600 m. Remark: the other paratypes (or paralectotypes) listed by Verco (200 from King George Sound, Western Australia, 12-14 fms; 60 from King George Sound, 22-28 fms; 4 from King George Sound, 35 fms; 6 from Geographe Bay, Western Australia, 15 fms; 4 from Geographe Bay, 22 fms; 20 from off Fremantle, Western Australia, 10-12 fms) were not located or not associated with the catalog numbers listed.
- † *ibergense*, *Dentalium* Römer, 1855: 36, pl. 7, fig. 7. Devonian. Iberg, near Grund, Harz Mountains, Germany.
- † *ignotum*, *Dentalium* Korobkov, 1955: 210, 211, pl. 3, figs 8-11. Middle Eocene. Northern Caucasus, Russia.
- † *iheringi*, *Dentalium* Brunet, 1995: 48, pl. 5, fig. 1. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-074.
- † *ihungia*, *Dentalium* Marwick, 1931: 158, pl. 18, figs 344, 345. Miocene, Clifdenian, Ihungia Series. Muddy Creek, Gisborne, New Zealand. Holotype NZGS TM4803; paratypes NZGS TM4804 (1), NZGS G 1237 (2) (*vide* Keyes 1972: 95). *Dentalium ihungia* Marwick, 1931 (*vide* Beu & Maxwell 1990: 424).
- † *illinoiensis*, *Dentalium* Worthen, 1883: 325. Carboniferous. Chester Limestone, Chester, Illinois, USA. Holotype Illinois State Collection No. 2488.
- imparcostata*, *Dentalium* (*Entalis* “?”) Nechaev, 1897: 124, pl. 10, figs 3, 4. Eocene. Near Saratov, Russia. Junior synonym of *Dentalium rugiferum* Koenen, 1885 (*vide* Makarenko 1970: 113).
- imperfatum*, *Dentalium* G. Adams, 1798. Not a scaphopod. See Other taxa described as Scaphopoda.
- inaequale*, *Dentalium* Bronn, 1831: 84, 85. Miocene. Italy. Junior synonym of *Dentalium sexangulum* Gmelin, 1791 (*vide* Bernasconi 1996: 26). Junior synonym: *Dentalium orsum* Bonelli *in* Sismonda, 1847 (*vide* Pilsbry & Sharp 1898: 205).
- inaequale*, *Dentalium* Ryckholt, 1851: 67, 68, pl. 2, figs 41, 42. Carboniferous. Visé, Belgium. Junior homonym of *Dentalium inaequale* Bronn, 1831. Junior synonym of *Plagiogypta ingens* (de Koninck, 1843) (*vide* Pilsbry & Sharp 1898: 231).
- † *inaequicostata*, *Dentalium* Seguenza, 1879: 117, pl. 11, figs 48, 48a. Miocene. Reggio, Calabria, Italy.

- inaequicostatum*, *Dentalium* Dautzenberg, 1891: 53 (1895: 370). Recent. Roussillon, France, Mediterranean. Syntypes (of *Dentalium alternans*) MNHN. Replacement name for *Dentalium alternans* Bucquoy, Dautzenberg & Dollfus, 1882, a junior homonym of *Dentalium alternans* Chenu, 1843. Objective junior synonym: *Dentalium dollfusi* Cossmann, 1899, which is a junior homonym of *Dentalium dollfusi* Koenen, 1883. Junior homonym of *Dentalium inaequicostatum* Seguenza, 1879. *Antalis inaequicostata* (Dautzenberg, 1891) (generic placement *vide* Pilsbry & Sharp 1897: 52). Eastern Atlantic, Mediterranean. 5-120 m. Remarks: although there is no valid junior synonym available, we prefer not to introduce yet another replacement name for this species in order to limit the nomenclatural damage suffered by this taxon. *Antalis inaequicostata* (Dautzenberg, 1891) is in current use for this Mediterranean species, whereas Seguenza's name is not. Moreover, it remains to be determined whether *Antalis inaequicostata* is conspecific with the allied Atlantic *Antalis novemcostata* (Lamarck, 1818). Should this be the case, Lamarck's junior synonym becomes an available name for *inaequicostata*. Even if these species turn out to be distinct, the name *inaequicostata* Dautzenberg can be preserved pursuant to ICZN (1999) article 23.9.1, which allows for homonyms that have been widely used in the literature to be preserved if the senior name has not been used since 1899. *Antale ininaequicostata* [Ferrera Mortara *et al.*, 1984: 305] is an incorrect subsequent spelling.
- inaequisculpta*, *Entalina* Ludbrook, 1954: 111, 112, fig. 16. Recent. Gulf of Aden, John Murray Exp. stn 185, 13°48'06"N, 49°16'48"E-13°48'36"N, 49°16'24"E, 2000 m. Holotype BMNH 1952.3.25.5; paratypes BMNH 1952.3.25.6-BMNH 1952.3.25.19. *Entalina inaequisculpta* Ludbrook, 1954. Indo-Pacific: Red Sea to Celebes. 835-2198 m.
- incertula*, *Dentalium (Fustiaria)* Sacco, 1897: 113, pl. 10, fig. 34 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. Montegibbio, Niciola and Fossetta, Italy. Replacement name for *Dentalium intermedium* Coppi, 1876, a junior homonym of *Dentalium intermedium* Hupé, 1854. Junior synonym of *Gadilina jani* (Hörnes, 1856) (*vide* Pavia 1991: 128, 129).
- † *incertum*, *Dentalium* Deshayes, 1825: 362, 363, pl. 17, fig. 17. Tertiary? Bordeaux and Maulette, near Houdan, Paris Basin, France. Referable to *Laevidentalium* (Le Renard 1995: 175; Le Renard & Pacaud 1995: 85), possibly a junior synonym of *Dentalium nitens* J. Sowerby, 1814 (*vide* Deshayes 1864: 202).
- † *incisissimum*, *Dentalium* Meyer & Aldrich, 1886: 40, pl. 2, fig. 1. Eocene and Oligocene. Wautubbee, Mississippi, USA. Lectotype USNM Paleobiology 638724 (designated by Palmer & Brann 1965: 367 as "holotype").
- † *incisum*, *Dentalium* Chenu, 1843: pl. 6, figs 8, 9; 1850: 4. Pliocene? Italy.
- incisus*, *Cadulus* Bush, 1885: 471, pl. 45, fig. 20. Recent. Off Cape Hatteras, *Albatross* stn 2272, 15 fms [27 m]. Lectotype USNM 44860 (designated by Johnson 1989: 43); paralectotypes YPM 15865 (2). Junior synonym of *Polyschides tetraschistus* (Watson, 1879) (*vide* Scarabino 1980: 12). Remark: Johnson (1989: 43) stated that there were "two paratypes" but Bush only referred to two specimens total, so the second specimen in YPM 15865 must have been added at a later date.
- incolor*, *Dentalium (Dentalium) aprinum* Boissevain, 1906: 10, pl. 4, figs 3-6. Recent. Indonesia, Anchorage off Lirung, Salibabu Island, *Siboga* stn 133, up to 36 m. Lectotype ZMA 3.06.005 (designated by Scarabino 1995: 198); paralectotypes ZMA 3.06.006 (3 in original description; 4 *vide* R. Moolenbeek & A. N. Van der Bijl *in litt.* 23.VI.2000), ZMA 3.06.007 (1; anchorage near Seget, west-entrance Selee (Galewo) strait, *Siboga* stn 163, 29 m). Junior synonym of *Dentalium aprinum* Linnaeus, 1767 (*vide* Scarabino 1995: 198).
- incrassatum*, *Dentalium* J. Sowerby, 1814. Not a scaphopod. See Other taxa described as Scaphopoda.
- incurvum*, *Dentalium* Renier, 1804. Not a scaphopod. See Other taxa described as Scaphopoda.
- indianorum*, *Dentalium pretiosum* var. Carpenter, 1864: 612, 648. Recent. Monterey (to) Catalina Island, California [USA], 20 fms [37 m]. Syntypes USNM 14790 (1), USNM 601274 (4), MCZ 29203 (7). Junior synonym: *Antalis denseliratum* Pilsbry & Sharp, 1898 [ex Carpenter MS]. Synonym of *Antalis pretiosa* (Sowerby, 1860) (*vide* Pilsbry & Sharp 1897: 45). Remark: Pilsbry & Sharp (1898: 250) published Carpenter's manuscript name, *Antalis denseliratum*, in synonymy with *A. indianorum*.
- indianum*, *Dentalium* Girty, 1915: 135. Carboniferous, Pennsylvanian. Locality 2006, Wewoka Formation, Wewoka quadrangle, Oklahoma, USA. Syntype USNM Paleobiology 121077 (labelled as "lectotype"). Junior synonym of *Prodentalium semicostatum* (Girty, 1911) (*vide* Yancey 1978: 308, by First Reviser action). Remark: syntype illustrated by Girty (1915: 146, pl. 25, figs 12, 12a).
- indica*, *Costentalina* Chistikov, 1982b: 1318, 1319, pl. 1, figs 12-14, pl. 4, figs 4-7. Recent. Indian Ocean, *Vitjaz* stn 4922 D, 6°54.2'N, 83°00.7'E, 3980 m. Holotype IOM; paratypes IOM (2 from stn 4922; 1 from stn 4721, 16°48.3'N, 62°20.3'E, 3860 m; 2 from stn 4925, 11°42.5'N, 82°49.3'E, 3428 m; 1 from stn 4934, 16°57'N, 86°59.2'E, 2596 m; 1 from stn 5292, 5°07.3'N, 91°43.5'E, 3860 m; 1 from stn 5304, 8°08.2'N, 95°21.7'E, 2480 m; 1 from *Akademik Kurtschatov* stn 25-8, 4°32.2'S, 63°18.3'E, 4440 m). *Costentalina indica*

- Chistikov, 1982. Indian Ocean: Red Sea to Madagascar and India. 2480-5285 m.
- indica*, *Wemersoniella* Scarabino, 1995: 325, 326, figs 126, 129a. Recent. NE of Mozambique Channel (Madagascar), RV *Suroit*, BENTHEDI stn CH87, 11°44'S, 47°35'E, 3716 m. Holotype MNHN. *Wemersoniella indica* Scarabino, 1995. Known from the type locality only.
- indicum*, *Dentalium* Chenu, 1843: pl. 3, fig. 11; 1850: 4. Recent. Indian Ocean. Type material not located. Junior synonym of *Laevidentalium eburneum* (Linnaeus, 1767) (*vide* Pilsbry & Sharp 1897: 116).
- indicum*, *Dentalium* (*Antalis*) *entalis* var. Boissevain, 1906: 44, pl. 6, fig. 15. Recent. Indonesia, *Siboga* stn 159, 00°59.1'S, 129°48.8'E, 411 m. Holotype ZMA 3.06.051. Junior homonym of *Dentalium indicum* Chenu, 1843. Replacement name: *Antalis boissevainae* Palmer, 1974; a junior synonym of *Antalis tibana* (Nomura, 1940) (*vide* Habe 1961: 105).). Remark: Scarabino (1995: 231) unnecessarily designated the single specimen as lectotype.
- indistinctum*, *Dentalium* Fleming, 1825. Not a scaphopod. See Other taxa described as Scaphopoda.
- inexpectatus*, *Bathoxiphus* Scarabino, 1995: 315, 316, figs 117, 121c. Recent. New Caledonia, N Norfolk Ridge, RV *Jean Charcot*, BIOCAL, stn DW46, 22°53'S, 167°17'E, 570-610 m. Holotype MNHN; paratypes MNHN (1 from LAGON stn 830; 10 from stn DW44), AMS C201732, NMNZ M268952, USNM 890866. *Bathoxiphus inexpectatus* Scarabino, 1995. Indo-Pacific: New Caledonia. 410-570 m.
- † *infans*, *Cadulus* (*Gadila*) Tate, 1899: 266, 267, pl. 8, fig. 11. Miocene. Muddy Creek, Victoria, Australia. Holotype SAM T 1614. *Cadulus* (*Gadila*) *infans* Tate, 1899 (*vide* Ludbrook 1959: 148, pl. 1, fig. 6).
- infimus*, *Compressidens* Scarabino, 1995: 368, 369, figs 173, 174d. Recent. Réunion, MD32 stn DS109, 20°52'S, 55°06'E, 1050-1240 m. Holotype and 8 paratypes MNHN. *Compressidens infimus* Scarabino, 1995. Indian Ocean. 1050-1240 m.
- inflata*, *Cadulus olivii* var. Locard, 1898: 134, pl. 7, figs 13-15. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Polyschides olivi* (Scacchi, 1835).
- inflata*, *Cadulus propinquus* var. Locard, 1898: 139. Recent. Bay of Biscay, *Travailleur* 1880 stn 2, 1019 m; North of Spain, *Travailleur* 1880 stn 9, 1190 m. Type material not located. Synonym of *Cadulus propinquus* G. O. Sars, 1878.
- inflexum*, *Dentalium* Sowerby, 1903: 224, pl. 5, fig. 11. Recent. Tugela River Mouth (Natal), bearing north west by west, distant 3.5 miles, 14 fms [26 m]. Syntypes BMNH 1903.7.27.60, NMW. *Antalis inflexa* (Sowerby, 1903) (*vide* Scarabino 1995: 236). Eastern Atlantic, Indian Ocean: South Africa. 25-44 m. Remarks: Sowerby gave the measurements of the single specimen in BMNH labelled "holotype", but the original description did not specify a holotype. Barnard (1963b: 351) listed "cotypes" in SAFM A5470, which were not mentioned by Giles & Gosliner (1983).
- † *infortunatum*, *Dentalium* Pilsbry & Sharp, 1898: 255. Cretaceous, Gaultian. Folkestone, England, United Kingdom. Replacement name for *Dentalium gardneri* Sharp & Pilsbry in Pilsbry & Sharp, 1898, a junior homonym of *Dentalium gardneri* (Holzapfel, 1888).
- infractum*, *Dentalium* Odhner, 1931: 1-3, pl. 1, figs 1-3, 8, 10, 12, pl. 2, 15-17, 22, 23. Recent. Coast of Uruguay, Swedish Antarctic Exp., stn 1, 33°00'S, 51°10'W, 80 m. Syntypes SMNH 1554 (*vide* Sandberg & Warén 1993: 125). Junior synonym: *Dentalium* (*Antalis*) *elegantulum* Penna-Neme, 1974 (*vide* Scarabino 1975: 184). *Antalis infracta* (Odhner, 1931) (*vide* Penna-Neme 1974: 110; Scarabino 1975: 184). Western Atlantic: Brazil to Argentina. 20-190 m.
- † *infraeocaenicum*, *Pulsellum* Cossmann, 1907a: 204, 205, pl. 9. Paleocene, Thanetian. Noailles, near Paris, France. Remark: a valid species of *Compressidens* (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 86).
- † *infraoligocaenicum*, *Compressidens* Welle, 1997: 95, 96, pl. 13, figs 17-19. Lower Oligocene, Raheim-Schichten. Schacht 8, Bergwerksgesellschaft Sophia Jacoba, near Erkelenz (north of Aachen), Germany. Holotype GPIM D.8-9-1.199; paratypes GPIM (5).
- infundibulum*, *Dentalium entalis* var. Jeffreys, 1869: 197. Recent. Loch Fyne [Scotland]. Type material not located. Synonym of *Antalis entalis* (Linnaeus, 1758).
- † *infundibulum*, *Pulsellum* Cossmann & Peyrot, 1917: 181, pl. 1, figs 60-62, pl. 2, fig. 16. Miocene, Helvetian and Burdigalian. Salles (Le Minoy), Saint-Étienne-d'Orthe, and Saint-Paul-lès-Dax, France.
- † *ingens*, *Dentalium* de Koninck, 1843: 317, pl. 22, figs 2a-2c. Carboniferous. Visé, Belgium. Junior synonym: *Dentalium inaequale* Ryckholt, 1851 (*vide* Pilsbry & Sharp 1898: 231). *Plagioglypta ingens* (de Koninck, 1843) (*vide* Waterhouse 1990: 198, 199).
- ingrata*, *Spadentalina* Scarabino, 1995: 310-312, figs 111e-g, 113, 115f. Recent. Loyalty Islands, Pacific, RV *Alis* MUSORSTOM 6, stn DW444, 20°54'S, 167°18'E, 300 m. Holotype MNHN; paratypes MNHN (1 from DW444; 1 from DW253; 2 from DW282; 1 from DW334; 1 from DW344; 3 from DW446; 1 from *Vauban* 34; 3 from *Vauban* 40), AMS C201731 (1; DW282), NMNZ M268951 (1; *Vauban* 40), USNM 890863 (1; DW280). *Spadentalina ingrata* Scarabino, 1995. Indo-Pacific: Indonesia to New Caledonia. 182-440 m.
- ininaequicostata*, see *inaequicostatum*.
- innumerable*, *Dentalium* (*Episiphon*) Pilsbry & Sharp, 1897: 119, pl. 18, figs 6-8. Recent. Type locality

- not specified. Localities of syntypes: ANSP 35564 (Panama Bay, USFC stn 2799, 8°44'N, 79°09'W, 29.5 fms [54 m]), USNM 96983 (Panama Bay, *Albatross* stn 2803, 8°27'N, 79°35'W, 26 fms [47 m]), USNM 97024 (Off Lower California near Cerros Island, *Albatross* stn 2838, 28°12'N, 115°09'W, 44 fms [80 m]), USNM 107697 and USNM 203131 (Panama Bay, *Albatross* stn 2799, 8°44'N, 79°09'W, 54 m), USNM 122770 (Panama Bay, *Albatross* stn 2803, 8°27'N, 79°35'W, 26 fms [47 m]), USNM 122804 (Panama Bay, *Albatross* stn 2805, 7°56'N, 79°41'30W, 51 fms [93 m]), USNM 122811 (off Lower California near Santa Margarita Island, *Albatross* stn 2831, 24°32'N, 111°59'W, 12 fms [22 m]), USNM 203132 (Off Guaymas, *Albatross* stn 3037, 27°45'N, 110°45'W, 20 fms [37 m]), SBMNH 35012 (Panama Bay, USFC stn 2799, 8°44'N, 79°09'W, 54 m). Junior synonym: *Dentalium (Rhabdus) cedrosense* Hertlein & Strong, 1951 (*fide* Keen 1971: 888). *Episiphon innumerabile* (Pilsbry & Sharp, 1897). Eastern Pacific: California to Panama. 22-93 m.
- † *inopinatum*, *Dentalium* Mayer-Eymar, 1887: 52, 104, pl. 4, fig. 7. Eocene, Bartonian, Auversian. Schimberg, near Thun, Switzerland.
- inornatum*, *Dentalium* McCoy in Griffith, 1844. Not a scaphopod. See Other taxa described as Scaphopoda.
- inornatum*, *Dentalium* Wade, 1926: 100, 101, pl. 33, figs 2, 3. Upper Cretaceous, Ripley Formation. Dave Weeks property on Coon Creek, McNairy County, Tennessee, USA. Type material USNM Paleobiology 32821. Junior homonym of *Dentalium inornatum* McCoy in Griffith, 1844. Replacement name: *Dentalium demersum* Pilsbry, 1927. Junior synonym of *Dentalium leve* Stephenson, 1923 (*fide* Stephenson 1941: 253, 254).
- insolitum*, *Dentalium* E. A. Smith, 1894: 168, 169, pl. 4, fig. 17, 17a. Recent. Bay of Bengal [India], 597 fms [1090 m]. Lectotype BMNH 1894.9.11.9 (designated by Ludbrook 1954: 109); paralectotypes BMNH 1952.3.25.83-93 (not located), ZSI 5412. Junior synonym: *Dentalium stapes* Boissvain, 1906 (*fide* Habe 1964: 32). *Gadilina insolita* (E. A. Smith, 1894) (*fide* Plate 1908a: 353). Indo-Pacific: Red Sea to New Caledonia and Japan. 625-1328 m.
- † *insuranum*, *Dentalium* Emerson, 1954: 183, 184. Oligocene, Priabonian. Locality 813, Saädang, Celebes, Indonesia. Replacement name for *Dentalium martini* Dollfus, 1915 *non* Whitfield, 1882.
- † *interbinarium*, *Dentalium sexangulum* "mut." Cossmann & Peyrot, 1917: 161, pl. 1, figs 4-7. Miocene. Saubrigues, France.
- intercalatum*, *Dentalium* Gould, 1859: 166. Recent. China Seas. Lectotype USNM 24183 (designated by Johnson 1964: 93, as "holotype"); paralectotype MCZ 169197 [ex NYSM 148]. Junior synonym: *Dentalium bednalli* Pilsbry & Sharp, 1897 (*fide* Verco 1904; *fide* Lamprell & Healy 1998: 59).
- Paradentalium intercalatum* (Gould, 1859) (*fide* Habe & Kosuge 1964: 1). Indo-Pacific: China to Australia. 0-668 m.
- intercalatum*, *Dentalium* Wade, 1926: 100, pl. 33, figs 18, 19. Upper Cretaceous, Ripley Formation. Dave Weeks property on Coon Creek, McNairy County, Tennessee, USA. Type material USNM Paleobiology 32829. Junior homonym of *Dentalium intercalatum* Gould, 1859. Replacement name: *Dentalium wadei* Pilsbry, 1927.
- intercoscillata*, see *intercosticillata*.
- intercostatum*, *Dentalium* Boissvain, 1906: 14, pl. 6, fig. 4, text-fig. 11. Recent. Indonesia, Ceram Sea, *Siboga* stn 178, 02°40'S, 128°37'E, 835 m. Lectotype ZMA 3.06.010 (designated by Scarabino 1995: 306 as "holotype"); paralectotypes ZMA 3.06.011 (2; stn 314, 694 m; lost, *fide* R. Moolenbeek & A. N. Van der Bijl *in litt.* 23.VI.2000). Junior synonyms: *Dentalium siberutense* Plate, 1908a (*fide* Scarabino 1995: 305); *Dentalium nivosum* Kuroda & Kikuchi, 1933 (*fide* Habe 1964: 40); *Dentalium tugaruense* Nomura & Hatai, 1940 (*fide* Habe 1964: 40). *Entalinopsis intercostata* (Boissvain, 1906) (*fide* Habe 1963: 272). Indo-Pacific: Indonesia to Japan. 50-1500 m. Remark: Lamprell & Healy (1998: 48) considered *Dentalium intercostatum* to be a junior synonym of *Dentalium thetidis* Hedley, 1903 (currently in the genus *Striodentalium*), thus rejecting Habe's assignment of this species to *Entalinopsis*.
- † *intercosticillata*, *Dentalium michelotti* var. Sacco, 1897: 97, pl. 7, figs 87, 88 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Italy (various localities). Syntypes MIGT BS.106.01.036, BS.106.01.037 (*fide* Ferrero Mortara *et al.* 1984: 302). *Dentalium michelotti* var. *intercoscillata* [Pilsbry & Sharp, 1898: 209] is an incorrect subsequent spelling.
- intermedia*, *Dentalium caudani* var. Locard, 1898: 105. Recent. Type locality not specified [North Atlantic]. Syntype MNHN. Synonym of *Dentalium caudani*, a junior synonym of *Fissidentalium candidum* (Jeffreys, 1877).
- † *intermedium*, *Dentalium* Hupé, 1854: 276, pl. 2, fig. 9. Tertiary. Topocalma, Colchagua Province, Chile.
- intermedium*, *Dentalium* R. Hörnes, 1875: 364, 365 [32, 33], pl. 10, figs 16, 17. Miocene. Otnang, northern Austria. Syntypes GBA 1875/01/0043 (3). Junior homonym of *Dentalium intermedium* Hupé, 1854; junior synonym of *Antalis bouei* (Deshayes, 1825) (*fide* Pilsbry & Sharp 1898: 200).
- intermedium*, *Dentalium* Coppi, 1876: 203. Miocene. Montegibbio, Nicola and Fossetta, Italy. Junior homonym of *Dentalium intermedium* Hupé, 1854; replacement name: *Dentalium (Fustiaria) incertula* Sacco, 1897, a junior synonym of *Gadilina jani* (Hörnes, 1856) (*fide* Pavia 1991: 128, 129).
- † *interruptum*, *Dentalium* Gmelin, 1791: 3739 [citing Schröter 1784a: 530 n. 10]. Miocene. Piedmont,

- Italy. *Antalis interrupta* (Gmelin, 1791) (*vide* Pavia 1991: 115-120, pl. 2, figs 1-4, table 1; text-figs 2-5).
- interstriatum*, *Dentalium* Sowerby, 1860: 102, pl. 223, fig. 7. Recent. Island of Bohol, Philippines. Syntypes BMNH 1950.11.2.42-44 (3) (incorrectly labelled "holotype" and "paratypes"). Junior synonym of *Dentalium aprinum* Linnaeus, 1767 (*vide* Habe 1964: 6, 7).
- † *intertrinarium*, *Dentalium sexangulum* var. Cossmann & Peyrot, 1917: 162, pl. 1, figs 8-11. Miocene, Helvetian. Salies-de-Béarn, France.
- intesi*, *Dentalium* (*Antalis*) Nicklès, 1979: 49, 50, text-fig. 7, pl. 1, fig. I. Recent. Gonzagueville, Ivory Coast, ORSTOM 1966-67 stn 17, 35 m. Holotype MNHN; paratypes (1 from ORSTOM 1966-67 stn 18, Vridi, 20 m; 1 from ORSTOM 1966-67 stn 19, Jacquenville, 30 m) not located in MNHN, not in SAFM (*vide* Giles & Gosliner 1983). *Antalis intesi* (Nicklès, 1979). Eastern Atlantic: Africa, Ivory Coast, Ghana. 20-35 m.
- intestiniforme*, *Dentalium* Hanley, 1860. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *intumescens*, *Gadus* Koenen, 1885: 72, 73, pl. 3, fig. 16. Paleocene. Denmark. Remark: a valid species of *Cadulus* (*vide* Makarenko 1970: 115).
- invalidum*, *Dentalium* Emerson, 1954: 184. Recent. Jamaica. Holotype (of *regulare* Henderson) USNM 107887. Replacement name for *Dentalium* (*Dentalium*) *laqueatum regulare* Henderson, 1920 *non* Ahlburg, 1906, *non* E. A. Smith, 1903. *Dentalium invalidum* Emerson, 1954. Western Atlantic, Caribbean. 78-255 m.
- inversum*, *Dentalium* Deshayes, 1825: 370, 371 [50, 51 in reprint], pl. 16, fig. 21. Recent. Type locality not specified. Syntypes MNHN. *Graptacme inversa* (Deshayes, 1825) (*vide* Pilsbry & Sharp 1897: 95). Eastern Atlantic: Africa, Senegal (Nicklès 1979: 55), ? Gulf of California (Keen 1958: 238, 239; "accidentally omitted" *in* Keen 1971: 886, *vide* Keen & Coan 1975: 48). No data on bathymetric distribution available.
- inversum*, *Dentalium* (*Fustiaria*) Cossmann, 1915: 7 [ex Rutot MS]. Paleocene, Montian. Puits Coppée, Belgium. Junior homonym of *Dentalium inversum* Deshayes, 1825. Tentative junior synonym of *Fustiaria montense* (Briart & Cornet, 1887) (n. syn.). Remark: Cossmann (1915: 7) indicates that the only difference between the single specimen of *inversum* and *montense* is the position of the slit. We, therefore, prefer to place *inversum* Cossmann in synonymy with *Fustiaria montense* instead of introducing a replacement name.
- iota*, *Cadulus* (*Gadila*) Henderson, 1920: 134, 135, pl. 19, fig. 2. Recent. Mayaguez Harbor, Puerto Rico, USBF stn 6062, 25 fms [46 m]. Holotype USNM 161581. *Gadila iota* (Henderson, 1920). Western Atlantic, Caribbean. 46-146 m.
- † *iowaensis*, *Coleolus* "?" James, 1890: 354, 355. Upper Ordovician, Cincinnati. Near Graf, Dubuque County, Iowa, USA. Lectotype USNM Paleobiology 34628 (designated by Bretsky & Birmingham 1970: 911, pl. 131, fig. 2); numerous paralectotypes USNM Paleobiology 34628. Remark: transferred to the Scaphopoda by Bretsky & Birmingham (1970), as a valid species of *Plagiogypta*.
- irregulare*, *Dentalium* Seguenza, 1879: 275, pl. 16, figs 33, 33a. Pliocene, Astian stage. Gallina, Reggio, Calabria, Italy. Junior homonym of *Dentalium irregularis* Hutton, 1873; replacement name: *Dentalium subirregulare* Pilsbry & Sharp, 1898.
- irregularis*, *Dentalium* Risso, 1826a: 125; 1826b: 400. Fossil. La Trinité, France. *Nomen nudum*.
- † *irregularis*, *Dentalium* Hutton, 1873b: 1. Upper Miocene, Pareora Formation. Kanieri and Awamoa, New Zealand. Lectotype NZGS TM4805 (designated by Suter 1914: 32). *Dentalium irregulare* Hutton, 1873 (*vide* Beu & Maxwell 1990: 424). Remark: Fleming (1955: 1059) and Keyes (1972: 95) determined that Suter had erroneously synonymized *D. irregulare* with *D. mantelli* Zittel, 1864.
- isaotakii*, *Siphonodentalium* Habe, 1953: 299. Recent. Tokyo Bay, Honshu, Japan. Holotype NSMT 54817; paratypes NSMT 54818, AMNH 148421 (6). *Siphonodentalium isaotakii* Habe, 1953. Indo-Pacific: Japan.
- ivanovi*, *Dentalium* Palmer, 1974b: 125. Carboniferous. Near Moscow, Russia. Replacement name for *Dentalium striatum* Ivanov, 1926 *non* Born, 1780. Remark: as Ivanov's taxon was not validly described, there was no need to rename it.
- ivanovi*, *Epirhabdoides* Steiner, 1999: 153-155, figs 2-6. Recent. *Vitjaz* stn 24-3578, 38°35'N, 142°53'E, Japan Trench, 1641 m. Holotype MMSU Lb-23; paratypes MMSU Lb-24 (2), Lb-25 (4), MNHN (2), BMNH 1996379 (2). *Epirhabdoides ivanovi* Steiner, 1999. Known from the type locality only.
- † *ixhuatlensis*, *Dentalium* Alencaster-Ibarra, 1950: 223, 224, fig. 2. Miocene. Kilometer 22 on railroad SE of Ixhuatlán, Vera Cruz, Mexico. Holotype Colección Paleontológica, Gerencia de Exploración, Petróleos Mexicanos, PM 2003.
- † *jacksonense*, *Dentalium* (*Antalis*) *mississippiense* var. Palmer, 1947: 212, 213, pl. 26, figs 20-22. Eocene, Jackson Formation. Moodys Branch marl and Lower Yazoo clay, Mississippi, USA. Holotype PRI 4477; paratypes PRI 4478, PRI 4479.
- † *jacksonensis*, *Cadulus* Meyer, 1885: 462; 1886: 65, pl. 3, figs 8-8b. Eocene. Jackson, Mississippi, USA. Syntype USNM Paleobiology 638704. Remark: Pilsbry & Harbison (1933: 117) suggested that *Cadulus newtonensis* Meyer & Aldrich, 1886 was a junior synonym of this species; however, Palmer & Brann (1965: 362) listed both taxa as valid.
- jaeckeli*, *Siphonodentalium* Scarabino, 1995: 332, figs 134, 135a. Recent. West Indian Ocean, Madagascar, West Banc du Leven, BENTHEDI stn

- DS03, 12°35.5'S, 47°38.2'E, 1150-1100 m. Holotype and 1 paratype MNHN. *Siphonodentalium jaeckeli* Scarabino, 1995. Known from the type locality only.
- † *jaegeri*, *Suevidontis* Engeser, Riedel & Bandel, 1993: 94, 95, pl. 3, figs 4-10. Late Middle Jurassic, Middle Callovian. Plettenberg, near Dotternhausen, c. 40 km south of Stuttgart, Germany. Holotype GPIMH 2834; paratypes GPIMH 2835-2839.
- jaffaensis*, *Dentalium* (*Fissidentalium*) Cotton & Ludbrook, 1938: 221, 222, pl. 12, fig. 5. Recent. Off Cape Jaffa, South Australia, 90 fms [165 m]. Holotype SAM D 13337. *Laevidentalium jaffaensis* (Cotton & Ludbrook, 1938) (*vide* Lamprell & Healy 1998: 113). Indian and Southern Oceans: S and SW Australia. 75-300 m.
- jamaicense*, *Dentalium* (*Fissidentalium*) *meridionale* var. Henderson, 1920: 62, pl. 9 fig. 4. Recent. Near Jamaica, USBF stn 2140, 966 fms [1763 m]. Holotype USNM 103519. Junior synonym of *Fissidentalium candidum* (Jeffreys, 1877) (*vide* Scarabino 1994: 307).
- jamiesoni*, *Episiphon* Lamprell & Healy, 1998: 131, 132, figs 135A, B, 136A, B, 137. Recent. Off Cairns, northern Queensland, Australia, 17°50.67'S, 147°18.2'E, 703 m. Holotype QM MO45835; paratypes QM MO17730 (6), QM MO17950 (2), AMS C173422 (26; off Cairns, Queensland, 17°09.42-36'S, 146°42.24'-42.00'E, 668 m), AMS C169798 (2; NE of Sydney, New South Wales, 33°33'S, 152°05'E, 750 m), AMS C173306 (8; E of Sandy Cape, Queensland, 24°43.5-8'S, 153°33.4-33.3'E, 604 m). *Episiphon jamiesoni* Lamprell & Healy, 1998. Indo-Pacific: northern and eastern Australia. 192-770 m. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *E. jamiesoni* Lamprell & Healy, 1998 vis-à-vis *Gadilina insolita* (E.A. Smith, 1894) requires further research.
- † *jani*, *Dentalium* Hörnes, 1856: 657, 658, pl. 50, fig. 37. Miocene. Baden, Wiener Becken, Austria. Lectotype NMW 1846.37.540 (designated by Pavia 1991: 129); paralectotypes NMW (11). Junior synonyms: *Dentalium intermedium* Coppi, 1876, *Fustiaria emersoni* Caprotti, 1979 (*vide* Pavia 1991: 128). *Gadilina jani* (Hörnes, 1856) (*vide* Pavia 1991: 128-130).
- japonicum*, *Dentalium* Dunker, 1877: 68. Recent. Japan. Holotype ZMB 101995. Junior synonym of *Dentalium octangulatum* Donovan, 1804 (*vide* Habe 1964: 8).
- japonicum*, *Siphonodentalium* Habe, 1960: 294. Recent. Tomioka, Amakusa Island, Kyushu, Japan. Holotype NSMT 54819; paratypes NSMT 54820, AMNH 148416 (3). *Siphonodentalium japonicum* Habe, 1960. Indo-Pacific: Japan. 30-300 m. Remark: this name with "*sp.nov.*" also appears in Habe & Kikuchi (1960: 30) as *nomen nudum*.
- javanum*, *Dentalium* Sowerby, 1860: 102, pl. 233, fig. 12. Recent. Malacca [Java], 22 m. Lectotype BMNH 1993006/1 (designated by Lamprell & Healy 1998: 42); paralectotypes BMNH 1993006/2-3 (2). *Dentalium javanum* Sowerby, 1860. Indo-Pacific: India to Australia and New Guinea. 4-150 m.
- † *javense*, *Dentalium* Palmer, 1974b: 124. Tertiary. Ngembak, Java, Indonesia. Syntypes RGM 7291 (6) (*vide* Van den Hoek Ostende *et al.* 2002: 112). Replacement name for *Cadulus martini* Finlay, 1927 non *Dentalium martini* Whitfield, 1882. Finlay's name is itself a replacement name for *Dentalium compressum* Martin, 1885 non d'Orbigny, 1850. Palmer (1974b: 124) claimed that Finlay's species was actually referable to *Dentalium*, so it was a junior secondary homonym of *Dentalium martini* Whitfield, 1882.
- jeanae*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 46, figs 37D, 38F, 42. Recent. 37 km E of Lady Musgrave Island, Queensland, Australia, 23°44'S, 152°49'E, 348-357 m. Holotype AMS C174889; paratype AMS C305472. *Dentalium jeanae* Lamprell & Healy, 1998. Indo-Pacific: Queensland, Australia. 348-357 m.
- jeffreysi*, see *jeffreysi* Gardner, 1878.
- † *jeffreysi*, *Dentalium* Gardner, 1878: 61, 62, pl. 3, figs 26-33. Cretaceous, Gaultian. Folkestone, Cambridge and Atherfield, England, United Kingdom. *Dentalium jeffreysi* [Yao 1990: 31, 32] is an incorrect subsequent spelling.
- jeffreysi*, *Helonyx* Monterosato, 1875: 20. Recent. Mediterranean and North Atlantic, 91-456 m. Type material not located. Junior synonym: *Helonyx subfusiformis* var. *abyssicola* Monterosato, 1875 (*vide* Pilsbry & Sharp 1898: 163, by First Reviser action, according to ICZN 1999: article 24). *Cadulus jeffreysi* (Monterosato, 1875) (*vide* Pilsbry & Sharp 1898: 163). Eastern Atlantic: Norway to St Helena; Mediterranean. 90-2200 m. Remark: this species was misidentified as *Cadulus subfusiformis* M. Sars by Jeffreys (1869: 196).
- jelli*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 25, 26, figs 9F, 10F, 18, 19. Recent. Off Cairns, northern Queensland, Australia, 17°50.67'S, 147°18.2'E, 703 m. Holotype QM MO45837; paratypes QM MO17766 (9), AMS C171341 (2), MV F69579 (7; 26°10'S, 153°13'E, southern Queensland, Australia). *Dentalium jelli* Lamprell & Healy, 1998. Indo-Pacific: Queensland, Australia. 703 m (depth range not given in original description).
- johsoni*, *Dentalium* (*Episiphon*) Emerson, 1952a: 5, 6, pl. 1, fig. 2. Recent. Off Puerto Rico, Johnson-Smithsonian Deep-Sea Exp. stn 25, 18°32'15"N, 66°22'10"W, 240-300 fms [438-548 m]. Holotype USNM 603543; paratypes USNM 429714, AMNH 148289 (2). Junior synonym of *Episiphon didymum* (Watson, 1879) (*vide* Scarabino 1975: 186).

- † *jonkeri*, *Dentalium* Martin, 1885: 188, pl. 10, fig. 187; 1887: 188, pl. 10, fig. 187. Miocene/Pliocene. Tambak Batu, Ngembak and Batavia (Jakarta), Java, Indonesia; Kassi Marinu, Fialarang, Timor. Syntypes RGM 7259 (2), RGM 7258 (1), RGM 7260 (1) (*fide* Van den Hoek Ostende *et al.* 2002: 111)
- † *juliana*, *Dentalium sulcosum* var. Ihering, 1907: 224. Tertiary. San Julián, Canada de los Artilleros, Patagonia, Argentina. *Dentalium sulcosum julianum* Ihering, 1907 (*fide* Ihering 1914: 67). Type material not located.
- † *junghubni*, *Dentalium* Martin, 1880: 87, 88, pl. 12, fig. 11. Miocene. Locality R, Tji-Karang, E of Tijeri, Kenged district, Sukapura Regency, Java, Indonesia. Holotype RGM 7252 (*fide* Van den Hoek Ostende *et al.* 2002: 111). Remark: *Dentalium junghubni* – Boettger 1882 and *Dentalium junghubni* – Noetling 1901 were subsequently described as *Dentalium nanggulanense* and *Dentalium noetlingi*, respectively, by Martin (1915).
- jungii*, *Dentalium* d'Orbigny, 1852. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *juvenis*, *Cadulus* Meyer, 1886: 66, pl. 3, fig. 4. Eocene, Jackson stage. Moody's Branch Marl, Jackson, Mississippi, USA. Lectotype USNM Paleobiology 638814 (designated by Palmer & Brann 1965: 362 as "holotype"). *Cadulus (Gadila) juvenis* Meyer, 1886 (*fide* Hodgkinson 1974: 16, 17).
- † *kahirahense*, *Dentalium* Cossmann, 1901 ["1900"]: 188, 189. Middle Eocene. Ouadi Abou Choucha, near Hérouan, Egypt. Junior synonym: *Dentalium praecursor* Mayer-Eymar, 1904 (*fide* Oppenheim 1906: 214, 215).
- † *kahleri*, *Dentalium* Gugenberger, 1934: 44, 45, pl. 1, fig. 16. Triassic. N of Launsdorf, Austria. Remark: *nomen nudum* in Gugenberger 1933a: 102; 1933b: 184.
- kaiyomaruae*, *Polyschides* Okutani, 1975: 77, 78, pl. 3, fig. 5. Recent. North Pacific: Kaiyo-Maru stn 57, 29°49'–28°48'N, 147°09'E, 6200 m. Holotype NSMT Mo.69591 (*fide* Anonymus 1996: 82, pl. 5, fig. 9). *Polyschides kaiyomaruae* Okutani, 1975. Known from the type locality only.
- kanakorom*, *Striodentalium* Scarabino, 1995: 241, figs 48, 52c. Recent. New Caledonia, Coral Sea, RV *Coriolis* CHALCAL 2, stn DW74, 24°40'S, 168°38'E, 650 m. Holotype MNHN and paratypes (3; 1 each from DW72, DW73, and DW197). *Striodentalium kanakorom* Scarabino, 1995. Indo-Pacific, New Caledonia. 527–650 m.
- † *kansasense*, *Dentalium (Paleodentalium)* Gentile, 1974: 1213–1215, text-fig. 1a–1e. Carboniferous, Pennsylvanian, Missourian Series. 2.5 miles S of Stanley, Wyandotte Limestone, Johnson County, Kansas, USA. Holotype University of Missouri Kansas City MS 1; paratypes University of Missouri Kansas City MS 2, MS 3, MS 4.
- † *kapuaensis*, *Polyschides* Maxwell, 1992: 188, pl. 9, figs e, f. Eocene. NZGS locality GS11200 Waihao River, near McCulloch's Bridge, South Canterbury, New Zealand. Holotype NZGS TM7233; paratype NZGS (1).
- † *karrerri*, *Dentalium* Hörnes, 1875: 365 [33], pl. 10, fig. 18. Miocene. Ottngang, northern Austria. Syntypes GBA 1875/01/0045 (2). Remark: Sacco (1897: 114) and Pilsbry & Sharp (1898: 234) listed this name, without bibliographic reference, as a junior synonym of *Entalina tetragona* (Brocchi, 1814).
- katchekense*, *Dentalium* Fischer-Piette & Nicklès, 1946: 70, 71, pl. 1, fig. 4, text-figs 23–25. Recent. Katchek, Îles Tristao, Guinea. Holotype and paratypes MNHN. *Dentalium katchekense* Fischer-Piette & Nicklès, 1946. Eastern Atlantic: western Africa. 16–150 m.
- kathwayae*, *Dentalium (Dentalium)* Lamprell & Healy, 1998: 38, 39, figs 29D, 30D, 34. Recent. 26 km NE of North Reef, Queensland, Australia, 23°08.4'S, 152°12.3'E, 115 m. Holotype AMS C169943. *Dentalium kathwayae* Lamprell & Healy, 1998. Known from the type locality only.
- katowense*, *Dentalium* Brazier, 1877: 56. Recent. Katow, New Guinea, 8 fms [15 m]. Holotype AMS C170758. *Paradentalium katowense* (Brazier, 1877) (*fide* Scarabino 1995: 222). Indo-Pacific: New Guinea, Australia. 0–100 m.
- kawamurai*, *Fissidentalium* Kuroda & Habe in Habe, 1961: 106, pl. 47, fig. 14. As a *nomen nudum* in Habe (1953: 293). Recent. Ashizurimisaki, Kochi Pref., Shikoku, Japan, 100–200 m. Types in NSMT. *Fissidentalium kawamurai* Kuroda & Habe in Habe, 1961. Indo-Pacific: Japan. 100–400 m.
- † *kentuckyensis*, *Rhytidentalium* Pojeta & Runnegar, 1979: 532–535, pl. 1, figs 11–17, pl. 2, figs 1–13. Upper Middle Ordovician, Shermanian, Lexington Limestone. USGS locality 4073-CO, along Shryock Ferry Road, 1.5 miles SW of Grier Creek Church near Milner, Woodford County, Kentucky, USA. Holotype USNM Paleobiology 254392; paratypes USNM Paleobiology 254393 (22), 254394–254400 (various USGS localities near Lexington, Kentucky). Remark: Engeser & Riedel (1996: 123) and Yochelson & Holland (2004: 98) express doubts about the scaphopod nature of this fossil species.
- kermadecae*, *Chistikovia* Scarabino, 1995: 327, 328, figs 128, 129d, e. Recent. New Zealand, Kermadec Trench, *Galathea* stn 664, 36°34'S, 178°57'W, 4510–4570 m. Holotype ZMUC; paratypes ZMUC (4), MNHN (1; *Galathea* stn 665). *Chistikovia kermadecae* Scarabino, 1995. New Zealand. 2470–4570 m.
- kessneri*, *Dentalium (Dentalium)* Lamprell & Healy, 1998: 31, figs 20D, 21D, 26. Recent. NE of Rat Island, Easter Group, Abrolhos, Western Australia; 28°42'S, 113°47.3'E, 201 m. Holotype WAM 112/93. *Dentalium kessneri* Lamprell & Healy, 1998. Known from the type locality only.

- kiaochowanense*, *Dentalium* (*Episiphon*) Tchang & Tsi, 1950: 6, 7, pl. 1, figs 1-6. Recent. Kiaochow Bay [Shantung, China], stn 358, 25 m. Holotype ASP (IOS?) 3542; paratypes ASP 3976 (3; stn 382, 16 m), ASP 3293 (6; stn 336, 10 m), ASP 2227 (1; stn 248, 5 m), ASP 3261 (3; stn 331, 10 m), ASP 4218 (stn 411, 18 m), ASP 2228 (9; stn 244, 5 m). Synonym: *Episiphon kiaochowanense* var. *rectum* (Tchang & Tsi, 1950). *Episiphon kiaochowanense* (Tchang & Tsi, 1950) (*vide* Steiner 1999: 153, 160, 161). Indo-Pacific: China. 5-25 m.
- † *kickxii*, *Dentalium* Nyst, 1843: 454. Tertiary (Oligocene). Belgium. Based on *Dentalium acuticosta* sensu Nyst 1835 non Deshayes, 1825. *Antalis kickxii* (Nyst, 1843) (*vide* Bonci *et al.* 2000: 207, pl. 1, fig. 2). Remarks: Janssen (1978a: 14, 15) originally considered *Dentalium geminatum* to be a senior synonym of *Dentalium kickxii* Nyst, 1843; but he considered Goldfuss' name to be a "nomen oblitum". Janssen (1978b: 138, 139) subsequently obtained the Goldfuss type material and concluded that it was a valid species and a senior synonym of *D. kickxii*. Most recently, Janssen (1987: 174-176) determined that *Antalis geminatum* was found in the Late Oligocene and *A. kickxii* was found in the Middle Oligocene; hence the two species are not synonyms. *Dentalium kickxii* sensu Tenison-Woods (1876) and sensu Etheridge (1878) are misidentifications of *Dentalium mantelli* Zittel, 1864 (*vide* Tate 1887: 191; Pilsbry & Sharp 1898: 208).
- kikuchii*, *Siphonodentalium* Kuroda & Habe, 1952: 36. Recent. Toyama Bay, Honshu, Japan Sea. Types in NSMT. *Compressidens kikuchii* (Kuroda & Habe, 1952) (*vide* Habe 1964: 30). Indo-Pacific: Japan. 100-500 m. Remark: this species was misidentified as *Dentalium* (*Compressidens*) *stearnsi* Pilsbry & Sharp, 1898 by Kuroda & Kikuchi (1933: 9).
- † *kittli*, *Dentalium* Cossmann, 1900a: 143. Triassic, St Cassian Formation. Tirol, Austria/Italy. Replacement name for *Dentalium undulatum* var. *elliptica* Kittl, 1894 non *Dentalium ellipticum* J. Sowerby, 1814.
- † *klipsteini*, *Dentalium* Kittl, 1891: 172 [7], pl. 1, fig. 3. Triassic, St Cassian Formation. Tirol, Austria/Italy. Holotype NHM 1899/7/1. *Prodentalium klipsteini* (Kittl, 1891) (*vide* Stiller 2001: 630). Remark: introduced for *Dentalium* "quadrangulatum Klipstein" (a manuscript name).
- knudseni*, *Wemersoniella* Scarabino, 1995: 326, 327, figs 127, 129b, c. Recent. Kermadec Trench, *Galathea* stn 664, 36°34'S, 178°57'E, 4510-4570 m. Holotype ZMUC; paratypes ZMUC (2; 1 each from stn 601 and stn 662), MNHN (1; stn 664), NMNZ M268545 (2; *Tangaroa* stn P934). *Wemersoniella knudseni* Scarabino, 1995. New Zealand. 4105-4630 m.
- koeningianum*, *Dentalium* Risso, 1826a: 125. Fossil. Near Nice, France. *Nomen nudum*.
- † *komiensis*, *Laevidentalium* "?" Kulikov, 1967: 116, pl. 1, fig. 1. Permian. Vem River, Soviet Union [Komi Republic, Russia]. Holotype Geological Institute (St Petersburg), 8758/3.
- komoosense*, *Dentalium* Meek, 1876: 364, pl. 3, fig. 6. Cretaceous. Nanaimo, Vancouver Island, British Columbia, Canada. Holotype USNM Paleobiology 4270. An objective junior synonym of *Dentalium nanaimoense* Meek, 1858 (*vide* Pilsbry & Sharp 1898: 225, "The description of both of these species is from the same specimen").
- † *korobkovi*, *Cadulus* (*Gadila*) Merklin, 1961: 157, text-fig. 2. Middle Eocene. Northern Caucasus, Goryachiy Kluych, near Krasnodar, Russia.
- † *korytnicensis*, *Dentalium* (*Antalis*) Baluk, 1972: 557-559, pl. 2, figs 4-6, text-figs 6, 7. Miocene, Lower Tortonian (Badenian). Korytnica, 24 km SSW of Kielce, Holy Cross Mountains, Poland. Holotype and paratypes, Baluk collection.
- † *kubraense*, *Dentalium* Palmer, 1974b: 124. Cretaceous, Barremian. River Kubre, near Volga River, Russia. Replacement name for *Dentalium barremicus* Sasanova, 1958 non *Dentalium barremicum* Cossmann, 1916.
- kurogenge*, *Pulsellum* Habe & Kosuge, 1964: 9. Recent. Off Choshi, Chiba Pref., Honshu, Japan, about 350 m. Holotype and paratype NSMT. *Pulsellum kurogenge* Habe & Kosuge, 1964. Indo-Pacific: Japan. 200-500 m.
- labeyriei*, *Cadulus* Scarabino, 1995: 353, figs 158, 160j. Recent. Philippines, RV *Jean Charcot*, ESTASE 2 stn DW1, 14°05'N, 120°01'E, 2200 m. Holotype MNHN; paratypes MNHN (2 from DW1; 7 from CP2), USNM 890872 (1; CP 2). *Cadulus labeyriei* Scarabino, 1995. Indo-Pacific: Philippines. 2050-2200 m.
- labiatum*, *Dentalium* Turton, 1819: 38. Recent. Torbay [England]. Syntypes USNM 174971 (6). Junior synonym of *Antalis vulgaris* (Da Costa, 1778) (*vide* Pilsbry & Sharp 1897: 41).
- labiatum*, *Dentalium* Brown, 1827: caption to pl. 1, fig. 4. Recent. Eastern Atlantic: Lough Strangford, Ireland. Junior homonym of *Dentalium labiatum* Turton, 1819. Remarks: it is not clear whether Brown referred to Turton's species. Further research is required to support the suspected synonymy with *Antalis vulgaris* (Da Costa, 1778).
- lacteolum*, *Dentalium* (*Laevidentalium*) Tate, 1899: 264. Eocene. Muddy Creek and Gelibrand River, Victoria, Australia. Holotype and 6 paratypes SAM T 253. Junior synonym of *Dentalium* (*Laevidentalium*) *acriculum* (Tate, 1887) (*vide* Ludbrook 1959: 144). Remark: this species was misidentified as *Dentalium lacteum* by Tate (1887: 193).
- lacteum*, *Dentalium* Deshayes, 1825: 362 [42 in reprint], pl. 16, fig. 27. Recent. Indian Ocean, India. Lectotype MNHN (designated by Scarabino 1995: 242); paralectotypes MNHN (1); MHNG 1155/35 ("Seychelles"; don. M. Desh.). *Graptacme*

- lactea* (Deshayes, 1825) (*vide* Scarabino 1995: 242). Indo-Pacific: Seychelles to New Caledonia and China. 32-42 m. Remark: the species from the Pliocene of Italy O. G. Costa (1851: 37, pl. 3, fig. 7) misidentified as *Dentalium lacteum* was later named *Dentalium costae* Pilsbry & Sharp, 1898.
- † *ladinum*, *Dentalium* Dall, 1916: 522. Oligocene. USGS station 6774, at Rock Island, Suwanee River, near White Springs, Hamilton County, Florida, USA. Syntypes USNM Paleobiology 166746 (3).
- laeve*, *Dentalium* Turton, 1819: 256. Recent. Torbay [England]. Syntypes USNM 174969 (6). Junior synonym of *Antalis vulgaris* (Da Costa, 1778) (*vide* Pilsbry & Sharp 1897: 42).
- laeve*, *Dentalium* Brazier, 1877. Not a scaphopod. See Other taxa described as Scaphopoda.
- laeve*, *Dentalium* (*Antalis*) "n. sp.?" Hilgard & Hopkins, 1878: 48, pl. 3, fig. 6. Quaternary. Lake Borgne, Louisiana, USA. Junior homonym of *Dentalium laeve* Turton, 1819; junior secondary homonym of *Dentalium laeve* (Schlotheim, 1820). Remark: Pilsbry & Sharp (1898: 207) stated that this species was described from "young shells and fragments, probably referable to *D. filum* Sowerby of the Recent and Pliocene faunas".
- † *laevigatum*, *Dentalium* Eichwald, 1830: 199. Pliocene. Zukowce, Volhynia, Ukraine.
- laevigatum*, *Dentalium* Rayneval, Hecke & Ponzi, 1854: 19, 20. Pliocene. Monte Mario, Rome, Italy. Junior homonym of *Dentalium laevigatum* Eichwald, 1830. Junior synonym of *Cadulus* (*Dischides*) *polius* (S. Wood, 1842) (*vide* Pilsbry & Sharp 1897: 144). Remark: this name was inadvertently reused for a new species by Ponzi (1876: 947, 956, pl. 3, figs 1a, 1b), even though Ponzi was the junior (third) author of the 1854 publication.
- laevigatum*, *Dentalium* Ponzi, 1876: 947, 956, pl. 3, figs 1a, 1b. Pliocene. Monte Vaticano, Rome, Italy. Junior homonym of *Dentalium laevigatum* Eichwald, 1830. Tentative junior synonym of *Antalis vulgaris vitrea* (Gmelin, 1791) (*vide* Sacco 1897: 101; Pavia 1991: 122, 123, pl. 3, fig. 8). Remarks: although Ponzi was the junior (third) author of *Dentalium laevigatum* Rayneval, Hecke & Ponzi, 1854, he apparently overlooked that description when he reused this name for a distinct species from a nearby locality. Sacco (1897: 101) listed this as a potential junior synonym of *Dentalium* (*Antale*) *vitreum* Gmelin, 1791 now considered a subspecies of *Antalis vulgaris* (Da Costa, 1778) (*vide* Pavia 1991). CLEMAM lists it in synonymy with *Dischides politus* (S. Wood, 1842).
- † *laevis*, *Dentalites* Schlotheim, 1820: 93, 94. Middle Triassic. Thangelstadt and Holzendorf (near Weimar), Germany; near Copenhagen, Denmark. *Entalis laevis* (Schlotheim, 1820) (*vide* Diener 1926: 230).
- laevis*, *Dentalium* Hutton, 1873b: 2. Miocene, Pareora Formation. Kanieri; Chatham Islands; Motanau, New Zealand. Lectotype NZGS TM4812 (*vide* Keyes 1972: 97). Junior homonym of *Dentalites laevis* Schlotheim 1820; replacement name: *Dentalium pareorensis* Pilsbry & Sharp, 1898. *Antalis pareorensis* (Pilsbry & Sharp, 1898) (*vide* Maxwell 1988: 76). Remark: Keyes did not indicate the source of this lectotype designation.
- † *laguncula*, *Gadila* Darragh, 1997: 94, 95, figs 8i, 8l-p. Paleocene, Pebble Point Formation. Locality PL3001, Otway Basin, Victoria, Australia. Holotype NMV P301881; paratypes NMV P301882, P301883.
- † *lamarcki*, *Dentalium* Mayer, 1864: 357, 358, pl. 14, fig. 5. Miocene. Bordeaux and Dax, France. Junior homonym of *Dentalium lamarckii* Chenu, 1843. Replacement name: *Dentalium* (*Entalis*) *exlamarcki* Sacco, 1897.
- lamarckii*, *Dentalium* Chenu, 1843: pl. 6, fig. 15; 1852: 5. Recent. "Les mers de la Chine" [China Sea?]. Possible syntype MHNG 1155/36 (labelled "Zanzibar", *vide* Y. Finet *in litt.* 16.X.1996). Junior synonym of *Antalis longitrossum* (Reeve, 1843) (*vide* Pilsbry & Sharp 1897: 111).
- † *lamberti*, *Dentalium* Cossmann, 1897: 268, pl. 2, fig. 32. Cretaceous, Turonian. Gizaucourt, Marne; Novy-Chevrières, Ardennes; and Berzieux, Marne, France.
- † *lanceolata*, *Theca* Morris, 1845: 289, 290, pl. 18, fig. 8. Permian. Illawara, New South Wales, Australia. Remark: Waterhouse (1980: 199) suggested that this species "is possibly similar" to *Plagiogypta*.
- † *landinense*, *Dentalium* Vincent, 1876: 158, 159, pl. 9, figs 12a-12c. Lower Eocene. Gelinden and Maret, Belgium.
- † *laneensis*, *Dentalium* ("?" *Fissidentalium*) Hickman, 1969: 74, pl. 9, figs 1-6. Oligocene, Eugene Formation. Near Eugene, Oregon, USA (numerous localities). Holotype UO 27332; paratypes UO 27333-UO 27339.
- langfordi*, *Laeidentalium* Habe, 1963: 268, pl. 38, fig. 22. Recent. Itoman, Okinawa Island, Ryukyu Islands, Japan, 30-50 fms [55-91 m]. Holotype and paratype in NSMT. *Fustiaria langfordi* (Habe, 1963) (*vide* Scarabino 1995: 280). Indo-Pacific: Indonesia to New Caledonia. 50-380 m.
- laqueatum*, *Dentalium* Verrill, 1885a: 431, 432, pl. 44, fig. 18. Recent. Off Cape Hatteras, North Carolina. *Albatross* stn 2268, 35°10'40"N, 75°06'10"W, 68 fms [124 m]. Holotype USNM 44671. *Dentalium laqueatum* Verrill, 1885. Western Atlantic, Caribbean: from Cape Hatteras (USA) to Guyana. 18-900 m.
- lardum*, *Dentalium* Barnard, 1963a: 445. Recent. South Africa, 33°44'S, 16°30'E, 1500 fms [2738 m]. Syntypes SAFM A9768 (3; *vide* Giles & Gosliner 1983: 40), BMNH 1964242. *Compressidentalium lardum* (Barnard, 1963) (*vide* Scarabino 1995: 264). Indian Ocean: South Africa. 2519-3212 m.

- largicrescens*, *Dentalium* (*Laevidentalium*) Tate, 1899: 264, pl. 8, figs 10-10a. Cheltenhamian (Upper Miocene [or Early Pliocene]). Beaumaris, Victoria, Australia, Sandringham Sands, Black Rock Member. Lectotype SAM D 18934 (ex Tate Coll. T1611) (designated by Ludbrook 1959: 145); paralectotypes SAM D 18935 (5), SAM D 18936 (1; Pliocene, Muddy Creek). *Laevidentalium largicrescens* (Tate, 1899) (fide Lamprell & Healy 1998: 115). Indo-Pacific: eastern Australia. 284-3058 m.
- laseroni*, *Dentalium* (*Laevidentalium*) Colman, 1958: 143, fig. 7. Recent. Broken Bay, New South Wales, Australia. Holotype AMS C62221; paratypes AMS C62220 (4). Junior synonym of *Laevidentalium lubricatum* (Sowerby, 1860) (fide Lamprell & Healy 1998: 118).
- laterischismum*, *Fissidentalium* Shikama & Habe, 1963: 249, text-figs 1, 2. Recent. Off Monbetsu, Hokkaido, Ochotsk Sea. Holotype in GIY.
- Fissidentalium laterischismum* Shikama & Habe, 1963. Ochotsk Sea, Japan. 100-200 m.
- latesuclatum*, see *latesulcatum*.
- † *latesulcatum*, *Dentalium* (*Fissidentalium*) Tate, 1899: 262, pl. 8, fig. 9. "Miocene" (Pliocene). Grange Burn, near Hamilton, Victoria, Australia. Holotype and 6 paratypes SAM T 1610A. Junior synonym: *Dentalium* (*Paradentalium*) *howchini* Cotton & Ludbrook, 1938 (fide Ludbrook 1959: 142). *Dentalium* (*Dentalium*) *latesulcatum* Tate, 1899 (fide Ludbrook 1959: 142, pl. 1, fig. 1). Remarks: the header to the species description is erroneously spelled as "*latesuclatum*" but the name is correctly spelled as *latesulcatum* in the Index and plate caption. *Dentalium* (*Fissidentalium*) *latesuclatum* [Tate, 1899: 262] is an incorrect subsequent spelling.
- † *laticornuata*, *Compressidens* Darragh, 1997: 94, fig. 8a-c, f. Paleocene, Pebble Point Formation. Locality PL3003, Otway Basin, Victoria, Australia. Holotype NMV P301880; paratypes NMV P301878, P303879, WAM 94.403a.
- † *laticostata*, *Dentalium* (*Entalis*) *badensis* var. Sacco, 1897: 108, pl. 9, fig. 22 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Turin Hills, Italy. Junior homonym of *Dentalium laticostatum* Reuss, 1844. Type material not mentioned by Ferrero Mortara *et al.* (1984: 307).
- † *laticostatum*, *Dentalium* Reuss, 1844: 201. Cretaceous. Luschnitz, Bohemia, Czech Republic.
- laubieri*, *Siphonodentalium* Bouchet & Warén, 1979: 219, 220, figs 8, 35, 36. Recent. Norwegian Sea, NORBI stn CP17, 73°30.7'N, 13°39.6'W, 2502 m. Holotype and paratypes MNHN. *Siphonodentalium laubieri* Bouchet & Warén, 1979. Eastern Atlantic: Norway. 2212-2502 m.
- laugieri*, *Dentalium* Jousseaume, 1894: 103. Recent. Aden, Suez. Syntypes (10) MNHN. Junior synonym of *Dentalium reevei* Fischer, 1871 (fide Scarabino 1995: 204). Remark: Ludbrook (1954: 98) argued against the synonymy.
- leai*, *Dentalium* Meyer, 1885: 462; 1886: pl. 1, figs 2, 2a. Eocene. Claiborne, Alabama, USA. Lectotype USNM Paleobiology 638702 (designated by Palmer & Brann 1965: 366 as "holotype"). Junior synonym of *Dentalium arciformis* Conrad, 1846 (fide Pilsbry & Sharp 1898: 199).
- lebruni*, *Dentalium* Mabilille & Rochebrune in Rochebrune & Mabilille, 1889: 99. Recent. Santa Cruz [Argentina]. Type material not located. *Laevidentalium*(?) *lebruni* (Mabilille & Rochebrune in Rochebrune & Mabilille, 1889) (fide Pilsbry & Sharp 1897: 102). Western Atlantic: Argentina; Eastern Pacific: Chile, Magellan Region. Remarks: due to its inadequate description and that the type material could not be found, the generic assignment of this species remains uncertain, as is the tentative synonymy by Dell (1964: 124) with *Dentalium majorinum* or *Rhabdus perceptus*.
- † *lebuense*, *Dentalium* Philippi, 1887a: 106, 107, pl. 12, fig. 18; 1887b: 101, pl. 12, fig. 18. Tertiary. Lebu and Llancahue, Chile.
- leloeufti*, *Cadulus* (*Dischides*) Nicklès, 1979: 71, 72, fig. 26. Recent. W of Grand Bassam, Ivory Coast, ORSTOM 1966-1967, 19-20 m. Holotype and paratypes MNHN. *Dischides leloeufti* (Nicklès, 1979). Eastern Atlantic: Africa, Ivory Coast. 19-20 m.
- † *lentum*, *Dentalium* Yokoyama, 1923: 54, 55, pl. 6, figs 18-20. Tertiary. Takinai, near Tanabe Bay, Kii, Japan.
- † *leonense*, *Dentalium* (*Dentalium* "?") *disparile* subsp. Mansfield, 1930: 139, pl. 21, fig. 8. Miocene. USGS station 3422, Jackson Bluff, Ocklocknee River, Leon County, Florida, USA. Holotype USNM Paleobiology 370542.
- † *leoninae*, *Dentalium* Meunier, 1878: 122. Eocene. Jaignes, Seine-et-Marne, France. *Dentalium leoninae* [Simroth, 1894: 375] is an incorrect subsequent spelling.
- leoninae*, see *leoninae*.
- leptoskeles*, see *leptosceles*.
- † *leptoceras*, *Dentalium* Ryckholt, 1862: vol. 3, pl. 35, fig. 20 (name and figure only).
- leptoconcha*, *Costentalina* Chistikov, 1982b: 1319, 1320, pl. 1, figs 15, 16, pl. 5, figs 1-9. Recent. Eastern Pacific, Akademik Kurtschatow stn 271 T, 17°42'S, 78°59.2'W, 3080-2710 m. Holotype IOM; paratypes (2 from Akademik Kurtschatow stn 271; 1 from *Dimitry Mendeleev* stn 525-3, 5°13.6'N, 107°31.7'W, 3830 m; 1 from *Dimitry Mendeleev* stn 522-2, 5°10.3'N, 121°29.5'W, 4426 m). *Costentalina leptoconcha* Chistikov, 1982. Eastern Pacific: Peru. 2710-4426 m.
- † *leptodoma*, *Cadulus* (*Gadila*) Pilsbry & Olsson, 1941: 49, pl. 10, fig. 11. Pliocene, Canoa Formation. Punta Blanca, western Ecuador. Holotype ANSP 13720.
- leptosceles*, *Dentalium* Watson, 1879: 513 [Watson 1886: 7, pl. 1, fig. 6 as *leptoskeles*]. Recent. South of

- Australia, *Challenger* stn 160, 42°42'S, 134°10'E, 2600 fms [4758 m]. Lectotype BMNH 1887.2.9.21 (designated by Ludbrook 1954: 104); paralectotypes BMNH 1887.2.9.22 (1), BMNH 1889.11.11.162 (1). Junior synonym: *Dentalium banale* Boissvain, 1906 (*vide* Scarabino 1995: 292). *Laevidentalium leptosceles* (Watson, 1879) (*vide* Pilsbry & Sharp 1897: 110). Indo-Pacific: Africa to Australia and New Caledonia. 918-5300 m. Remarks: Lamprell & Healy (1998: 112, 114, 115) treated *Laevidentalium banale* as a separate species. *Dentalium leposkeles* [Pilsbry & Sharp, 1897: 110] is an incorrect subsequent spelling.
- leptum*, *Dentalium* Bush in Verrill, 1885b: 586, 587 [also in Bush 1885: 470, 471, pl. 45, figs 18, 18a]. Recent. Off Cape Hatteras, USBF, stn 2112, 14-15 fms [26-27 m]. Holotype USNM 41562. Junior synonym of *Graptacme eborea* (Conrad, 1846) (*vide* Henderson 1920: 66).
- † *leroyi*, *Fustiaria* (*Fustiaria*) Hodgkinson, 1974: 23, 24, text-fig. 81, m; pl. 3, fig. 12, pl. 8, figs 1, 2. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Little Brazos Bluff, Brazos River Valley, Brazos County, Texas, USA. Holotype USNM Paleobiology 180460; paratypes USNM Paleobiology 180478, PRI 29229, ANSP 31507 (all from Scott's locality MS-2-N, Little Brazos River).
- lessoni*, *Dentalium* Deshayes, 1825: 357 [37 in reprint], pl. 2, fig. 13. Recent. New Guinea. Lectotype MNHN (designated by Scarabino 1995: 215); paralectotypes MNHN (87). *Dentalium lessoni* Deshayes, 1825. Indo-Pacific: New Guinea. 904-1141 m. Remark: it remains to be determined how this deep-water species could have reached Deshayes before 1825.
- letsonae*, *Dentalium* (*Dentalium*) Sharp & Pilsbry in Pilsbry & Sharp, 1897: 4, 5, pl. 1, fig. 13, pl. 5, figs 66-68. Recent. Island of Bohol, Philippines. Holotype ANSP 35446. *Dentalium letsonae* Sharp & Pilsbry in Pilsbry & Sharp, 1897. Known from the type locality only.
- leucoryx*, *Dentalium* Boissvain, 1906: 20, 21, pl. 6, fig. 23, text-fig. 15. Recent. Indonesia, *Siboga* stn 285, 08°39.1'S, 127°04.4'E, 34 m. Lectotype ZMA 3.06.016 (designated by Scarabino 1995: 206); paralectotypes ZMA 3.06.017 (2). Junior synonym: *Dentalium sinuosum* Boissvain 1906 (*vide* Scarabino 1995: 206, by First Reviser action). *Dentalium leucoryx* Boissvain, 1906. Indo-Pacific: Indonesia to Chinese Sea. 34-157 m.
- † *leve*, *Dentalium* Stephenson, 1923: 351, 352, pl. 88, figs 1-3. Upper Cretaceous. USGS Locality 6815, 0.5 miles W of Union Springs, Alabama, USA. Holotype USNM Paleobiology 31837; paratypes USNM Paleobiology 31838 and 31993 (USGS Locality 5348, Snow Hill, Greene County, North Carolina). Junior synonym: *Dentalium demersum* Pilsbry, 1927 (*vide* Stephenson 1941: 253, 254) (replacement name for *Dentalium inornatum* Wade, 1926).
- levii*, *Fissidentalium* Scarabino, 1995: 252, 253, figs 60, 70c. Recent. New Caledonia, RV *Vauban*, MUSORSTOM 4, stn DW160, 18°42'S, 163°13'E, 668 m. Holotype MNHN; paratypes MNHN (2 from DW160; 1 from DW 341; 1 from DW358; 1 from DW33; 1 from DW21; 1 from DW55; 1 from *Vauban* 1976); AMS C201724 (1; DW39); NMNZ M268957 (1; DW396). *Fissidentalium levii* Scarabino, 1995. Indo-Pacific: New Caledonia. 200-1400 m.
- † *liassicum*, *Dentalium* Moore, 1866: 86, pl. 5, fig. 24. Jurassic, Middle Liassic. Camerton, England, United Kingdom. Holotype Bath Museum (England) (*vide* Richardson 1906: 581, 582, pl. 45, fig. 6). *Prodentalium* “?” *liassicum* (Moore, 1866) (*vide* Engeser & Riedel 1992: 38).
- † *ligeriense*, *Dentalium* Peyrot, 1938: 8, 9, pl. 1, figs 46, 47. Miocene, Helvetian. Mirebeau (Moulin-Pochard), Ligerian Basin, Touraine, France. Type material stated to be in author's collection.
- † *lighti*, *Dentalium* (*Laevidentalium* “?”) Vokes, 1939: 105, 106, pl. 16, fig. 26. Eocene, Arroyo Hondo Formation. UCMP locality 1817, N of Coalinga, Coalinga Quadrangle, California, USA. Holotype UCMP 15752.
- ligusticus*, *Siphonodentalium* (*Loxoporus*) Razzore, 1896: 256, pl. 3, figs 3a, 3b. Pliocene. Liguria, Italy. Junior synonym of *Gadila ventricosa* (Bronn, 1828) (*vide* Pilsbry & Sharp 1898: 240).
- lima*, *Fissidentalium* Kuroda & Habe in Habe, 1963: 260, pl. 37, fig. 15. As a *nomen nudum* in Habe (1953: 293). Recent. Okinoshima, Kochi Prefecture, Shikoku, Japan, 40 m. Types in NSMT. Junior synonym of *Fissidentalium profundorum* (E.A. Smith, 1894) (*vide* Habe 1964: 13).
- † *limatuloides*, *Dentalium* Kuhn, 1935: 126, 127, pl. 8, fig. 6a-c. Jurassic, Dogger. Forth, Bavaria, Germany. *Baltodentalium limatuloides* (Kuhn, 1935) (*vide* Engeser & Riedel 1992: 50).
- † *limatulum*, *Dentalium* Tate, 1870a: 402, pl. 26, fig. 1. Jurassic, Lower Liassic. Gloucestershire, England, United Kingdom. Holotype Geological Society of London 4441 (*vide* Richardson 1906: 582). *Baltodentalium limatulum* (Tate, 1870) (*vide* Engeser & Riedel 1992: 38, 50).
- † *limatum*, *Dentalium* (*Laevidentalium*) Stanton, 1901: 28, 29, pl. 6, fig. 9. Cretaceous. 10 miles E of Lago Pueyrredón, Santa Cruz, Patagonia, Argentina.
- lineare*, *Dentalium* Renier, 1804: xii. *Nomen nudum*. Remark: Renier's publication was placed on the Official Index of Rejected and Invalid Works in Zoological Nomenclature (ICZN 1954, Opinion 316), so this name is not available.
- † *lineatum*, *Dentalium* Gueranger, 1853: 33. Cretaceous, Greensand stage. Le Mans, France.

- lineatum*, *Dentalium* Moore, 1870: 256. Cretaceous. Wollumbilla, Queensland, Australia. Junior homonym of *Dentalium lineatum* Gueranger, 1853. Replacement names: *Dentalium wollumbillaensis* Etheridge in Jack & Etheridge, 1892, *Dentalium moorei* Pilsbry & Sharp, 1898.
- lineolatum*, *Dentalium* Cooke, 1885: 274. Recent. Gulf of Suez. Syntypes UMZC I.100,750 (7). Junior synonym of *Dentalium reevei* Fischer, 1871 (*vide* Scarabino 1995: 204). Remark: Boissevain (1904: 25) substituted Cook's name with *Dentalium macandrewi*, which became a junior synonym of *Dentalium clavus* Cooke, 1885 by a lectotype designation by Scarabino (1995: 204); see Singer (2003) for details.
- linnaeanum*, *Dentalium* Locard, 1887: 145. Junior synonym of *Antalis dentalis* (Linnaeus, 1758). Remark: this name was proposed in a footnote as a suggestion to avoid allegedly tautonymous nomenclature but is an invalid name (ICZN 1999: articles 18 and 23.3.7).
- † *linnei*, *Dentalium* Foresti, 1895: 246. Pliocene. Ponticello in val di Saveno, near Bologna, Italy.
- liodon*, *Dentalium* (*Laevidentalium*) Pilsbry & Sharp, 1897: 107, 108, pl. 21, figs 37-39. Recent. St Martin, West Indies. Holotype ANSP 35554. *Fustiaria liodon* (Pilsbry & Sharp, 1897) (*vide* Scarabino 1975: 185). Western Atlantic, Caribbean: Florida to Brazil. 8-366 m.
- liratum*, *Dentalium* Carpenter, 1857: 188. Recent. Mazatlan [Mexico]. Lectotype BMNH 1857.6.4.879/1 (designated by Keen 1968: 402, text-fig. 23); paralectotypes BMNH 1857.6.4.879/2-3 (2). Junior synonym of *Graptacme semistriata* (Turton, 1819) (*vide* Pilsbry & Sharp 1897: 91).
- lirulatum*, *Dentalium* Mörch, 1861: 177. Recent. Gulf of Nicoya, west coast of Costa Rica. Holotype ZMUC (*vide* Keen 1966: 18, fig. 20). Junior synonym of *Graptacme semistriata* (Turton, 1819) (*vide* Pilsbry & Sharp 1897: 91).
- lobatum*, *Dentalium* Sowerby, 1860: 100, pl. 3, fig. 44. Recent. Type locality not designated. Syntypes BMNH 1951.2.14.4-5 (labelled "Spitzbergen"). Junior synonym of *Dentalium vitreum* M. Sars, 1851, which is a junior homonym of *Dentalium vitreum* Gmelin, 1791; validated as substitute name by Pilsbry & Sharp (1897: 136, 137). Junior synonym: *S. exvitreum* Sacco, 1897 (*vide* Pilsbry & Sharp 1898: 253). *Siphonodentalium lobatum* (Sowerby, 1860) (*vide* M. Sars 1859: 52; *vide* Pilsbry & Sharp 1897: 136). Eastern Atlantic: British Islands to Spitzbergen. 38(?)–3100 m.
- † *lobion*, *Cadulus* (*Polyschides*) Gardner, 1947: 628, pl. 57, fig. 21. Oligocene. Alum Bluff Group, Chipola Formation. USGS locality 2213, 1 mile below Bailey's Ferry, Chipola River, Calhoun County, Florida, USA. Holotype USNM Paleobiology 498411.
- lochi*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 37, figs 29B, 30B, 32. Recent. Arafura Sea, Northern Territory, Australia, 9°17.5'S, 132°20'E, 168 m. Holotype AMS C174628; paratypes AMS C84257 (270), WAM 153/93 (2; 18°25'S, 118°22'E, 210 km N of Port Hedland, Western Australia, 201 m). *Dentalium lochi* Lamprell & Healy, 1998. Indo-Pacific: northern and western Australia. 124–201 m.
- lofolense*, see *lofolense*.
- lofolense*, *Siphonodentalium* M. Sars, 1865a: 297–300, pl. 6, figs 29–33. Recent. Lofoten Islands, Nidaros [Trondheimfjord], Flekkefjord [Norway], 30–120 fms [55–219 m]. Syntypes SMNH 4624 (Norway, Lofoten, 100 fms [183 m]). *Pulsellum lofolense* (M. Sars, 1865) (*vide* Fischer 1885: 894). Eastern Atlantic: Norway to Spain, Mediterranean. 26–3500 m. *Pulsellum lofolense* [Cossmann 1888: 11], *Pulsellum lophotense* [Coppi 1881: 86; Sacco 1896: 98; 1897: 114] and *Pulsellum lophotensis* are incorrect subsequent spellings.
- † *lombardicum*, *Dentalium* Kittl, 1899: 4, pl. 1, fig. 1. Triassic? Esino and Canova, on Monte Croce, Italy. Holotype NHM 1889/D/2608. Remarks: as "*longobardicum*" [sic] (Kittl, 1899: 191); as "*esinense*" [in error] (Kittl, 1899: 4).
- † *longifissum*, *Dentalium* Harmer, 1923: 823, pl. 63, figs 40, 41. Pliocene, Coralline Crag. Sutton, Gedgrave, England.
- longilobatus*, *Cadulus* (*Polyschides*) Boissevain, 1906: 68, 69, pl. 6, figs 55, 56, text-fig. 34. Recent. Indonesia, *Siboga* stn 133, off Lirung, Salibabu Island, up to 36 m. Syntypes ZMA 3.06.094–095 (3). *Siphonodentalium longilobatum* (Boissevain, 1906) (*vide* Scarabino 1995: 333). Known from the type locality only.
- longirostrum*, see *longirostrum*.
- † *longistriatum*, *Fissidentalium* "?" Yoo, 1988: 248, figs 141–143. Early Carboniferous, Late Tournaisian, Dangarfield Formation. Locality A-3, 2.6 km SW of Gundy, Upper Hunter, New South Wales, Australia. Holotype AMS F.61992; paratype AMS F.61993 (1).
- longitrorsum*, *Dentalium* Reeve, 1843: pl. 130, fig. 6 [1843: 197]. Recent. Type locality not specified [Zanzibar, Africa, in 1843]. Holotype BMNH 1952.3.24.1. Junior synonym: *Dentalium lamarckii* Chenu, 1843 (*vide* Pilsbry & Sharp 1897: 111). *Antalis longitrorrsa* (Reeve, 1843) (*vide* Scarabino 1995: 227). Indo-Pacific: Red Sea and eastern Africa to China and Australia. 46–155 m. *Dentalium longirostrum* [Paetel 1873: 78] is an incorrect subsequent spelling (*vide* Pilsbry & Sharp 1897: 111).
- longobardicum*, see *lombardicum*.
- longum*, *Dentalium* (*Episiphon*) Sharp & Pilsbry in Pilsbry & Sharp, 1897: 120, pl. 18, figs 1–3. Recent. Habitat unknown. Holotype ANSP 71080. *Episiphon longum* (Sharp & Pilsbry in Pilsbry & Sharp, 1897). Remark: possible junior synonym of *Dentalium attenuatum* Sowerby, 1860 non Say, 1824 (*vide* Pilsbry & Sharp 1897: 120).

lophotense, see *lofotense*.

lophotensis, see *lofotense*.

lubricatum, *Dentalium* Sowerby, 1860: 97, pl. 225, fig. 56. Recent. Off Port Jackson Heads, New South Wales [Australia], 45 fms [82 m]. Lectotype BMNH 1957.10.10.2 (designated by Colman 1958: 143); paralectotypes BMNH 1957.10.10.3-4 (2). Junior synonym: *Dentalium laseroni* Colman, 1958 (*vide* Lamprell & Healy 1998: 118; who invalidly selected a specimen from the lot BMNH 1957.10.10.2-4 as the lectotype of *lubricatum*). *Laevidentalium lubricatum* (Sowerby, 1860) (*vide* Pilsbry & Sharp 1897: 110). Indo-Pacific: Australia. 82-1125 m.

luchuanum, *Dentalium* Dall, 1926: 63. Recent. Nago, Okinawa, Japan, 15 fms [27 m]. Holotype USNM 333692. Junior synonym of *Dentalium aciculum* Gould, 1859 (*vide* Habe 1964: 24).

† *lucidum*, *Dentalium* Deshayes, 1861: 214, pl. 1, figs 18-20. Eocene. Paris Basin (Cuisse-la-Motte, Aisy, Mercin, Laversine, Coeuvres, Cuisy-en-Almont, Laon, Héronval, Noailles and Abbecourt), France. *Fustiaria lucida* (Deshayes, 1861) (*vide* Newton & Harris 1894: 65). Remarks: a valid species of *Pseudantalis* (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85). This species was misidentified as *Dentalium incertum* Deshayes, 1825 by d'Orbigny (1850).

ludbrookae, *Cadulus* (*Gadila*) Cotton & Godfrey, 1940: 340, 341, fig. 363. Recent. Northwest of Cape Borda, Kangaroo Island, South Australia, 62 fms [113 m]. Holotype SAM D 13760. *Gadila ludbrookae* (Cotton & Godfrey, 1940) (*vide* Lamprell & Healy 1998: 154). South Australia. 80-155 m.

ludbrooki, *Dentalium* (*Gadilina*) Caprotti, 1962. Not a scaphopod. See Other taxa described as Scaphopoda.

ludbrooki, *Striocadulus* Scarabino, 1995: 336, 337, figs 138, 139c. Recent. Aden, John Murray Exp. stn 176, 12°05'N, 50°38'E, 655-732 m. Holotype BMNH 1952.3.25.342; paratypes BMNH 1952.3.25.343, BMNH 1952.3.25.138, 139 (2; stn 188, 13°46'N, 47°50'E, 528 m). *Striocadulus ludbrookae* Scarabino, 1995. Indian Ocean, Red Sea. 528-732 m. Remarks: this species was misidentified as *Cadulus* (*Polyschides*) *hexaschistus* Boissevain, 1906 by Ludbrook (1954: 118). As Nelly Hooper Ludbrook was a woman, the gender of the name is here emended to its female form.

lunulus, *Cadulus* Dall, 1881: 35. Recent. Off Morro Light, Havana, Cuba, Blake stn 2, 23°14'N, 82°25'W, 805 fms [1469 m]. Holotype MCZ 7747. *Cadulus lunulus* Dall, 1881. Western Atlantic, Caribbean. 128-1469 m.

lupinum, *Dentalium* Röding, 1798: 69. [Citing Martini, 1769: pl. 1, fig. 5; Gmelin, 1791: *Dentalium striatulum*]. Junior objective synonym of *Dentalium striatulum* Gmelin, 1791, which is a junior subjective synonym (partim) of *Dentalium aprinum* Linnaeus, 1758 (*vide* Pilsbry & Sharp 1897: 3).

† *lusanensis*, *Dentalium* Makarenko, 1970: 112, text, fig. 12, pl. 22, figs 11-13. Paleocene. Luzanovka, northern Ukraine. Holotype Akademia Nauka Ukraine (Kiev), No. 18/27.

macandrewi, *Dentalium* Boissevain, 1906: 25-27, pl. 5, figs 25-34 (*ex* Cooke, 1885: 274). Recent. Gulf of Suez, Red Sea. Lectotype (designated by Scarabino 1995: 204) not in ZMA (*vide* R. Moolenbeek & A. N. Van der Bijl *in litt.* 23.VI.2000) or in UMZC. Substitute name for *Dentalium aratorum*, *Dentalium clavus*, and *Dentalium lineolatum*, all Cooke, 1885 (*vide* Boissevain 1906: 25); junior synonym of *Dentalium clavus* Cooke, 1885 (*vide* Singer 2003: 11, 14).

† *macilentum*, *Dentalium* Pilsbry, 1911: 166, 167, figs 1-23. Miocene. Bowden, Jamaica. Syntype ANSP 654. Remark: as a *nomen nudum* in Pilsbry & Sharp (1898: 254).

macleani, *Cadulus* (*Platyschides*) Emerson, 1978: 122, figs 1-3. Recent. Muertos Bay, Baja California, Mexico, LACM stn 66-22, 24°55'N, 109°46'W, 18-55 m. Holotype LACM 1886; paratypes LACM 1887 (2); AMNH 213440 (1). *Cadulus macleani* Emerson, 1978. Eastern Pacific: Mexico. 18-55 m. Remark: the subgenus *Platyschides* was put in synonymy with *Gadila* by Scarabino (1995: 196, 355). However, the maximum diameter of this species is located at the middle of the shell, which is typical for *Cadulus*.

† *maculatellata*, *Dentalium* (*Antale* “?”) *dentale* var. Sacco, 1897: 105, pl. 8, figs 79, 80 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Bussana, Italy. Syntypes MIGT BS.106.02.070, BS.106.02.071 (*vide* Ferrero Mortara *et al.* 1984: 306).

magellanicum, *Dentalium* (*Dentalium*) *majorinum* Pilsbry & Sharp, 1897: 28, pl. 12, figs 95-97. Recent. USFC stn 2777 and 2780, Strait of Magellan, 77.5-369 fms [141-673 m]. Syntypes USNM 87651, USNM 601272. Synonym of *Dentalium majorinum* Mabile & Rochebrune *in* Rochebrune & Mabile, 1889.

magnificum, *Dentalium* E. A. Smith, 1896: 371, 372. Recent. Tricomalee, Sri Lanka, 8°40'N, 81°27'E, 637-800 fms [1163-1460 m]. Syntypes ZSI M 299/1; BMNH 1895.12.13.1 (1), NMW (1). Possible junior synonym: *Dentalium noetlingi* Martin, 1915 (see Noetling 1901: 250; Martin 1915: 180). *Fissidentalium magnificum* (E. A. Smith, 1896) (*vide* Pilsbry & Sharp 1897: 78). Indo-Pacific: Madagascar to Philippines and New Caledonia. 520-2600 m.

“*magnistriatum*”, *Dentalium* “Desh.” – Anton 1838: 25. Apparently an incorrect subsequent spelling for *Dentalium multistriatum* Deshayes, 1825 (*vide* Pilsbry & Sharp 1898: 208).

† *magnocostata*, *Dentalium sexangulum* var. Sacco, 1897: 94, pl. 7, fig. 62 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Astigiana, Italy. Type material not listed by Ferrero Mortara, *et al.* (1984: 301).

- † *magnum*, *Dentalium* Briart & Cornet, 1889: 81, 82, pl. 24, fig. 6. Upper Eocene. Mons, Belgium.
- † *magnumcostatum*, *Dentalium* Brunet, 1995: 50, 52, pl. 5, fig. 5. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-078.
- magnum*, *Cadulus* (*Polyschides*) Boissevain, 1906: 68, pl. 6, fig. 54, text-fig. 33. Recent. Celebes Sea, *Siboga* stn 88, 00°34.6'S, 119°08.5'E, 1301 m. Lectotype ZMA 3.06.092 (designated by Scarabino 1995: 330); paralectotypes ZMA 3.06.091 (1), ZMA 3.06.093 (1; Flores Sea, *Siboga* stn 45, 07°24'S, 118°15.2'E, 794 m), ZMA 3.06.107 (1; Timor Sea, *Siboga* stn 300, 10°48.6'S, 123°23.1'E, 918 m). *Siphodontalium magnum* (Boissevain, 1906) (*vide* Scarabino 1995: 330). Indo-Pacific: Indonesia to Japan and New Caledonia. 300–2350 m. Remarks: *Siphodontalium summa* (Okutani, 1964) is a possible junior synonym of this species (Habe 1964: 51, 52). Habe (1964: 51) referred to *Siboga* stn 45 (Flores Sea, 7°24'S, 118°15.2'E, 794 m) as the type locality, but did not designate a lectotype pursuant to ICZN (1999) article 74a.
- † *magnus*, *Gadus* Mayer-Eymar, 1887: 53, pl. 4, fig. 8. Eocene, Bartonian, Auversian. Schimberg, near Thun, Switzerland.
- majestica*, *Entalina* Kira, 1959: 105, pl. 40, fig. 3. Recent. Tosa Bay, Japan, 30–50 fms [55–91 m]. Type material not located. *Nomen nudum* in Habe (1953: 299) and in Kira (1954: 80) (*vide* Bieler & Petit 1990: 141). Junior synonym of *Entalina mirifica* (E. A. Smith, 1895) (*vide* Scarabino 1995: 300).
- major*, *Cadulus* (*Gadila*) *panamensis* var. Pilsbry & Sharp, 1898: 192, pl. 36, figs 28–30. Recent. Lower California, *Albatross* stn 2830, 66 fms [120 m]. Lectotype USNM 96570 (designated by Emerson 1971: 79); paralectotype USNM 602249. Synonym of *Gadila perpusilla* (Sowerby in Broderip & Sowerby, 1832) (*vide* Emerson 1971: 78).
- major*, *Dentalium ergasticum* var. Locard, 1896: 170, pl. 6, fig. 1. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Dentalium ergasticum*, a junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877).
- † *major*, *Dentalium* Gardner, 1877: 556, pl. 16, fig. 2. Cretaceous. Grey Chalk, Folkestone, Dover, England. *Dentalium majus* [Gardner 1878] is an incorrect subsequent spelling.
- major*, *Dentalium striolatum* var. Locard, 1898: 120. Recent. “*Talisman*, between 2400 and 2638 m”. Type material not located. Junior synonym of *Antalis entalis* (Linnaeus, 1758) (*vide* Pilsbry & Sharp 1897: 43).
- major*, *Pseudantalis rubescens* var. Monterosato, 1884: 33. *Nomen nudum* without type locality or description.
- major*, *Siphodontalium* [sic] *lofotense* var. Monterosato, 1875: 20. Recent. Palermo, 210 m. *Nomen nudum*.
- majorinum*, *Dentalium* Mabilie & Rochebrune in Rochebrune & Mabilie, 1889: 100, pl. 4, fig. 10. Recent. Baie Orange [Chile]. Syntypes MNHN (2). *Dentalium majorinum* Mabilie & Rochebrune in Rochebrune & Mabilie, 1889. Antarctica: Ross Sea; Western Atlantic: Magellanic Region. 133–1097 m.
- majus*, see *major* Gardner, 1877.
- majus*, *Dentalium* J. de C. Sowerby, 1846: 263, pl. 2, fig. 3. Tertiary. Hufo Island, Chile. *Dentalium sulcosum* J. de C. Sowerby, 1846 (*vide* Ortmann 1902: 157, by First Reviser action, according to ICZN 1999: article 24).
- makiyamai*, *Dentalium* (*Episiphon*) (*subrectum* var.?) Kuroda & Kikuchi, 1933: 11, 12, pl. 1, fig. 8. Recent. Toyama Bay, Japan, 60–200 m. Types in FGK. Replacement name for *Dentalium* (*E.*) *filum* Makiyama, 1929 *non* Sowerby, 1860, which is an inappropriate use of *Episiphon virgula* (Hedley, 1903) (*vide* Scarabino 1995: 287).
- malayanum*, *Dentalium* Boissevain, 1906: 32, 33, text-fig. 19, pl. 5, figs 4, 5. Recent. Timor Sea, *Siboga* stn 300, 10°48.6'S, 123°23.1'E, 918 m. Lectotype ZMA 3.06.033 (designated by Scarabino 1995: 251); paralectotypes ZMA 3.06.030 (2; anchorage off Lirung, Salibabu Island up to 36 m, *Siboga* stn 133), ZMA 3.06.031 (1; north of Kofian Island, *Siboga* stn 159, 0°59.1'S, 129°48.8'E, 411 m), ZMA 3.06.032 (1). *Fissidentalium malayanum* (Boissevain, 1906) (*vide* Habe & Kosuge 1964: 3). Indo-Pacific: Madagascar to Indonesia and New Caledonia. 36–2760 m.
- maltzani*, *Dentalium* Clessin, 1896: 41, 42, pl. 11, fig. 5 [Dunker in Paetel 1888: 593, as *nomen nudum*]. Recent. Gorée, Senegal, West Africa. Types in SMF. Junior synonym of *Fustiaria rubescens* (Deshayes, 1825) (*vide* Pilsbry & Sharp 1897: 107). *Dentalium maltzani* [Pilsbry & Sharp, 1897: 107] is an incorrect subsequent spelling.
- maltzani*, see *maltzani*.
- † *mancorens*, *Dentalium* Olsson, 1930: 71, 72, pl. 12, figs 12, 13. Eocene, Talara Formation. Quebrada Barranca, near Catalinas, Peru. Holotype PRI 24296; paratype PRI 24925 (*vide* Brann & Kent 1960: 318–319).
- mannarens*, *Dentalium* Winckworth, 1927: 167, 168, text-fig. and pl. 14, figs 1, 2. Recent. Mannar Island, Sri Lanka, 3 fms [5 m]. Syntypes BMNH 1952.3.21.6–12, NMW. *Dentalium mannarens* Winckworth, 1927. Indian Ocean: Sri Lanka, India. 5–6 m.
- † *mantelli*, *Dentalium* Zittel, 1864: 45, pl. 13, fig. 7. Eocene. The Cliffs, near Nelson, New Zealand. *Dentalium mantelli* Zittel, 1864 (*vide* Beu & Maxwell 1990: 424). Remarks: Maxwell (1992: 186) noted that this species was described from two localities, and selected the specimen figured by Mantell, from “The Cliffs, Nelson” as the lectotype (the other syntype was from Awatere Valley, Onekakara, New Zealand, and is a paralectotype).

- of *Dentalium centenniale* Marwick, 1942). Flügel (1959: 839) noted that the type material of this species could not be found.
- † *maoria*, *Fustiaria* Maxwell, 1992: 186, pl. 30, figs k-m. Eocene. NZGS locality GS9508, Waihao River, near McCulloch's Bridge, South Canterbury, New Zealand. Holotype NZGS TM7228, paratypes NZGS (2).
- marchadi*, *Cadulus* (*Gadila*) Nicklès, 1979: 64, fig. 22. Recent. Senegal. Holotype MNHN. *Gadila marchadi* (Nicklès, 1979). Eastern Atlantic: West Africa. No bathymetric information available.
- marchadi*, *Dentalium* (*Graptacme*) Nicklès, 1979: 55, text-fig. 10, pl. 1, fig. II. Recent. Dakar, Senegal. Holotype MNHN. *Graptacme marchadi* (Nicklès, 1979). Eastern Atlantic: West Africa.
- † *margarita*, *Cadulus* (*Polyschides*) Palmer, 1947: 217, 218, pl. 26, figs 8-11. Eocene, Jackson Formation. Moodys Branch marl, Mississippi, USA. Holotype PRI 4483; paratype PRI 4484.
- marshae*, *Laevidentalium* Lamprell & Healy, 1998: 122, 123, figs 121F, 125F, 128. Recent. 78 miles NNE of Port Hedland, Western Australia, 19°04.1'-04.7'S, 118°47.8'-47.2'E, 82 m. Holotype AMS C174622; paratypes AMS C174546 (3), AMS C174542 (4; N of Port Hedland, Western Australia, 19°03.4-6'S, 119°03.3-6'E, 81 m), AMS C308353 (1; 18°03'S, 122°17'E), AMS C173298 (1; 94 miles NNE of Port Hedland, Western Australia, 18°48'S, 119°00.8'E, 92-94 m). *Laevidentalium marshae* Lamprell & Healy, 1998. Indo-Pacific: western Australia. 81-94 m.
- martensi*, *Dentalium* Boissevain, 1906 [December]: 34, text-fig. 20, pl. 4, fig. 19, pl. 5, figs 1-3. Recent. Macassar Strait, *Siboga* stn 88, 00°34.6'N, 119°08.5'E, 1301 m. Lectotype ZMA 3.06.045 (designated by Ludbrook 1954: 101; and independently by Scarabino 1995: 261); paralectotypes ZMA 3.06.046 (4 + fragments), ZMA 3.06.047 (1; stn 223, 5°44.7'S, 126°27.3'E, 4391 m). Junior synonym of *Compressidentalium subcurvatum* (E. A. Smith, 1906) [October] (*vide* Scarabino 1995: 261).
- † *marthae*, *Dentalium* Cossmann & Pissarro, 1902: 179, pl. 31, fig. 45. Eocene. Hauteville, Cotentin, France.
- martini*, *Cadulus* Finlay, 1927: 521. Tertiary. Ngembak, Java, Indonesia. Replacement name for *Dentalium compressum* Martin, 1885 *non* d'Orbigny, 1850 (Polychaeta) *nec* Watson, 1879 *nec* Meyer, 1883 *nec* Sowerby, 1889. Remarks: Palmer (1974b: 124) claimed that Finlay's species was actually referable to *Dentalium*, so it was a junior secondary homonym of *Dentalium martini* Whitfield, 1882; replacement name: *Dentalium javense* Palmer, 1974.
- martini*, *Cadulus* Scarabino, 1995: 349, 350, figs 154, 160f. Recent. New Caledonia, Bassin des Loyauté, RV *Coriolis* BIOGEOCAL, stn CP232, 21°34'S, 166°27'E, 760-790 m. Holotype MNHN and paratypes (3 from CP232; 1 from CP75; 2 from DW106). Junior homonym of *Cadulus martini* Finlay, 1927. Replacement name *Cadulus scarabinoi* n. nom.
- martini*, *Dentalium* Whitfield, 1882. Not a scaphopod. See Other taxa described as Scaphopoda.
- martini*, *Dentalium* Boussac, 1911b: 256, pl. 16, figs 4, 5, 49-51, 53, 54. Oligocene, Priabonian. Faudon, Allons and Martinets, France. Junior homonym of *Dentalium martini* Whitfield, 1882. Replacement name: *Dentalium boussaci* Emerson, 1954. Remark: this species was misidentified as *Dentalium striatum* J. Sowerby, 1814 by Renevier (1890).
- martini*, *Dentalium* (*Fustiaria*) Dollfus, 1915: 993, 994. Oligocene, Priabonian Formation. Locality 813, Saädang, Celebes, Indonesia. Junior homonym of *Dentalium martini* Whitfield, 1882. Replacement name: *Dentalium insuranum* Emerson, 1954.
- martyi*, *Laevidentalium* Lamprell & Healy, 1998: 123-125, figs 130A, 131C, D, 132, 134E, F. Recent. Gulf of Carpentaria, Queensland, Australia, 10°58.5'S, 140°21'E, 54 m. Holotype QM MO39004; paratypes QM MO39006 (1; Gulf of Carpentaria, Queensland, 13°1.5'S, 136°43'E, 22 m), QM MO39009 (1; Gulf of Carpentaria, Queensland, 11°4.1'S, 142°52.4E, 21 m), AMS C171342 (6; 98 km W of Cape Wessel, Arafura Sea, Northern Territory, 10°48.4'S, 135°52.0'E, 44 m). *Laevidentalium martyi* Lamprell & Healy, 1998. Indo-Pacific: northern Australia. 15-296 m.
- marukawai*, *Dentalium* (*Antalis*) Otsuka, 1933: 159, 160, fig. 1. Recent. Off Koshikijima on the west coast of Kyushu, Japan, *Soyo-maru* stn 425, 200 m. Type material not located. *Antalis marukawai* (Otsuka, 1933) (*vide* Habe 1963: 264). Indo-Pacific, Japan. 100-400 m. Remark: the type material deposited in the "Earthquake Research Institute, Tokyo Imp. Univ." is now presumed lost, since they were not listed by Ichikawa (1983: 463, 464).
- marwicki*, *Dentalium* Mestayer, 1926: 583, pl. 101, figs 11, 12. Pliocene, Castlecliffian. New Zealand. Holotype NMNZ M1394. Junior synonym of *Antalis nana* (Hutton, 1873) (*vide* Dell 1957: 570).
- † *masoni*, *Gadilina* Maxwell, 1992: 187, pl. 30, figs g, h. Eocene. NZGS localities GS1986, GS11200, Waihao River, near McCulloch's Bridge, South Canterbury, New Zealand. Holotype NZGS TM7229; numerous paratypes NZGS.
- † *matanzasense*, *Dentalium* Ihering, 1907: 224. Tertiary. Matanzas, Chile. *Dentalium matanzasense* Ihering, 1907 (*vide* Ihering 1914: 66). Remark: this species was misidentified as *Dentalium sulcosum* J. de C. Sowerby, 1846 by Philippi (1887).
- matara*, *Dentalium* Dall, 1889: 420. Recent. Off Cape Lookout, USFC stn 2611, 34°15'N, 76°11.30'W, 31 fms [57 m]. Lectotype USNM 95363 (designat-

- ed by Henderson 1920: 67); paralectotypes USNM 92823 (2; USFC stn 2608), USNM 94095 (1; USFC 2401), USNM 95364 (1; USFC stn 2409), USNM 95365 (7; Samana Bay, Dominican Republic). Junior synonym of *Graptacme eborea* (Conrad, 1846) (*vide* Scarabino 1974: 185).
- † *mauryae*, *Dentalium* Penna-Neme & da Costa Barros Muniz, 1976: 524, 525, fig. 2. Paleocene, Maria Farinha Formation, Pernambuco, Brazil. Holotype and paratypes, Departamento de Geologia, Centro de Tecnologia, Universidade Federal de Pernambuco, Brasil.
- † *mauwsoni*, *Dentalium* (*Fissidentalium*) Ludbrook, 1956: 2, 3, pl. 1, figs 5, 6. Miocene. River Murray Cliffs, South Australia. Holotype SAM F 15139; paratypes SAM (8), paratypes BMNH (3; Lower Beds, Muddy Creek, South Australia).
- † *mayeri*, *Dentalium* Gümbel, 1861: 745. Oligocene. Lohergraben, Bavaria, Germany.
- † *mayor*, *Siphondentalium* (*Gadila*) *gadus* var. Foresti, 1895: 258. Pliocene. Italy.
- mayori*, *Cadulus* (*Gadila*) Henderson, 1920: 133, 134, pl. 19, fig. 3. Recent. East of Tortugas, *Eolis* stn 33, 16 fms [29 m]. Holotype USNM 314783; paratypes USNM 314784 (64), USNM 157809 (32; USFC 2404), USNM 323953 (14; USFC 2404), USNM 314785 (46; *Eolis* stn 42), USNM 314786 (153; *Eolis* stn 43), USNM 314787 (1; *Eolis* stn 73), USNM 314788 (42; *Eolis* stn 48), USNM 314789 (1; *Eolis* stn 49), USNM 314790 (5; *Eolis* stn 68), USNM 314791 (6; *Eolis* stn 69), USNM 314792 (2; *Eolis* stn 87), USNM 314793 (1; *Eolis* stn 117), USNM 314794 (6; *Eolis* stn 140), USNM 314795 (1; *Eolis* stn 311), USNM 314796 (1; *Eolis* stn 128), USNM 314797 (2; *Eolis* stn 147), USNM 314798 (2; *Eolis* stn 152), USNM 314799 (2; *Eolis* stn 156), USNM 314800 (1; *Eolis* stn 167), USNM 314801 (1; *Eolis* stn 172), USNM 314802 (3; *Eolis* stn 179), USNM 314803 (2; *Eolis* stn 182), USNM 314804 (1; *Eolis* stn 186), USNM 314805 (1; *Eolis* stn 306), USNM 314806 (1; *Eolis* stn 354), USNM 314807 (3; *Eolis* stn 356), USNM 314808 (2; *Eolis* stn 360), USNM 314809 (3; *Eolis* stn 364), USNM 314810 (16; *Eolis* stn 368), USNM 314811 (13; *Eolis* stn 370), USNM 314812 (2; *Eolis* stn 196), USNM 314813 (39; *Eolis* stn 32), USNM 314814 (2; *Eolis* stn 100), USNM 314815 (2; *Eolis* stn 300), USNM 314816 (1; *Eolis* stn 350), MCZ 48411 (6; *Eolis* stn 43), ANSP 44914 (*Eolis* stn 43), AMNH 148339 (7). *Gadila mayori* (Henderson, 1920). Western Atlantic, Caribbean. 29-182 m.
- † *mefarlandae*, *Cadulus* (*Cadulus*) Emerson, 1957: 986, 987, pl. 126, fig. 4. Eocene, Vacaville shale, Capay formation. UCMP loc. A-3365, Ualtis Creek SW of Dunns Peak, Vaca Valley, Solano County, California, USA. Holotype UCMP 37590; paratypes UCMP 37591-UCMP 37594.
- mehelinii*, see *michelinii*.
- † *mediaviense*, *Dentalium* Harris, 1896: 187 [73], pl. 17 [7], figs 1, 1a. Eocene, Midway Stage. 0.5 miles N of Ripley, Mississippi; Black Bluff, Graveyard Hill, Dale's Branch and Allenton, Alabama, USA. Syntypes PRI 82 [lost], PRI 2349 (*vide* Brann & Kent 1960: 319).
- mediocarinata*, *Entalina* Boissevain, 1906: 63, text-fig. 29, pl. 6, figs 70-72, 87, 88. Recent. Off Kai Islands [Indonesia], *Siboga* stn 256, 5°26.6'S, 132°32.5'E, 387 m. Lectotype ZMA 3.06.084 (designated by Habe: 1964: 42); paralectotypes ZMA 3.06.085 (2; Bali Sea, *Siboga* stn 5, 07°46'S, 114°30.5'E, 330 m). Junior synonym: *Megaentalina teramachii* Kuroda & Habe in Habe, 1963 (*vide* Habe 1964: 42). *Megaentalina medicarinata* (Boissevain, 1906) (*vide* Kuroda & Habe in Habe 1963: 273 as *Megaentalina teramachii*). Indo-Pacific: eastern Africa to Japan. 200-1035 m. Remark: Scarabino (1995: 366) invalidly selected one of the specimens from *Siboga* stn 5 as the lectotype.
- mediopacificensis*, *Dentalium* Rehder & Ladd, 1973: 48, 49, pl. 3, figs 1, 2. Recent. Agassiz Guyot, Mid-Pacific Mountains, stn 4, 17°58.5'N, 178°14.2'E, 865-884 fms [1579-1613 m]. Holotype USNM 703273; paratype USNM 703274 (1). *Dentalium mediopacificensis* Rehder & Ladd, 1973. Known from the type locality only. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that this species is referable to *Compressidentalium*.
- † *medium*, *Dentalium* J. Sowerby, 1814: 181, pl. 79, fig. 5. Cretaceous. Blackdown, England, United Kingdom. Remark: Geinitz (1850: 74, pl. 18, figs 25, 26) erroneously used this name for the later described *Dentalium geinitzianum* Ryckholt, 1851.
- † *medius*, *Cadulus* Pilsbry & Sharp, 1898: 237 [*ex Deshayes* MS]. Tertiary. Naples, Italy. Based on *Dentalium coarctatum sensu* O. G. Costa 1851 *non* Lamarck 1818.
- † *meekianum*, *Dentalium* Geinitz, 1866: 13, pl. 1, fig. 20. Carboniferous. Locality 60, Nebraska City, Missouri River, Nebraska, USA. *Plagioglypta meekiana* (Geinitz, 1866) (*vide* Yancey 1978: 310).
- † *meganosensis*, *Cadulus* Palmer, 1923: 303, pl. 54, fig. 5. Middle Eocene. UCMP Locality 3573, near Vacaville, California, USA. Holotype UCMP 30601.
- megathyris*, *Dentalium* Dall, 1890: 293, pl. 9, fig. 1. Recent. Localities of syntypes: USNM 87558 (Off Chiloe Island [Chile], *Albatross* stn 2789, 42°35'S, 75°28'W, 1342 fms [2449 m]), USNM 95851, 594262, ANSP 72361, and SBMNH 35017 (near Galapagos Islands, USFC stn 2807, 0°24'S, 89°06'W, 812 fms [1480 m]), USNM 110665 (off southwest Chili [Chile], *Albatross* stn 2788, 45°35'S, 75°55'W, 1050 fms [1916 m]), LACM 1816 (1485 m, Islas Galapagos). *Fissidentalium megathyris* (Dall, 1890) (*vide* Pilsbry & Sharp 1897: 67). Eastern Pacific: California to Chile, Galapagos.

- 1480-4300 m. Remark: Scarabino (1995: 250) considered *megathyris* a junior synonym of *Fissidentalium ceras* Watson, 1879. This proposed synonymy requires a comparative study of all taxa included in this species group.
- † *menthifonta*, *Fustiaria* (*Episiphon*) Dockery in MacNeil & Dockery, 1984: 248, pl. 71, figs 1-3. Lower Oligocene, Mint Spring Formation. Mississippi Geological Survey locality 90, Ichusa Creek, Smith County, Mississippi, USA. Holotype USNM Paleobiology 376681.
- meridionale*, *Dentalium* (*Fissidentalium*) *candidum* var. Pilsbry & Sharp, 1897: 73, pl. 15, figs 32-34. Recent. SE of Rio de Janeiro, Brazil, *Albatross* stn 2763, 24°17'S, 42°48.30'W, 671 fms [1225 m]. Holotype USNM 887471; paratypes USNM 87538, 87557. Synonym of *Fissidentalium candidum* (Jeffreys, 1877) (*fide* Scarabino 1994: 307).
- metivieri*, *Fissidentalium* Scarabino, 1995: 254, 255, figs 61, 62a, 70d, e. Recent. Madagascar, Mozambique Channel, 22°24'S, 43°03'E, 600 m. Holotype MNHN; paratypes MNHN (1 from stn 106; 1 from stn 65; 1 from stn 76; 1 from stn 84; 2 from stn 88; 1 from stn 91; 2 from stn 126; 1 from stn CH49), NM (1; stn 91), USNM 890876 (1; stn 104), BMNH 1994041 (2; stn CH102). *Fissidentalium metivieri* Scarabino, 1995. Indo-Pacific: Madagascar. 310-1020 m.
- † *mexicanum*, *Dentalium* Girty, 1909: 95, pl. 11, fig. 10. Carboniferous, San Andreas Formation. USGS localities 3738a (Caballos Mountain) and 3743 (Fra Cristobal), New Mexico, USA. Type material USNM Paleobiology 120807 (Caballos Mountain).
- mexicanum*, *Dentalium* (*Tesseracme*) Perrilliat, 1975: 57, 58, pl. 10, figs 3-5. Middle Miocene. Head of stream in Arroyo Tomás Martínez, about 3 km NE of Santa Rosa, and approximately 28 km NW of Santa Lucrecia, by the railroad track, state of Veracruz, Mexico. Holotype USNM Paleobiology 350085; paratypes UNAM 2520. Junior homonym of *Dentalium mexicanum* Girty, 1909. Replacement name: *Tesseracme perrilliatiae* n. nom.
- † *meyeri*, *Entalis* Gardner, 1878: 62, pl. 3, fig. 40. Cretaceous. Blackdown beds, England, United Kingdom.
- † *meyeri*, *Siphonodentalium* (*Siphonodentalium*) Cossmann, 1888: 12, 13, pl. 1, figs 4, 5. Eocene. Chaussy and Houdan, France. *Cadulus meyeri* (Cossmann, 1888) (*fide* Pilsbry & Sharp 1898: 237). Remark: a valid species of *Polyschides* (*fide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 86).
- miamiensis*, *Cadulus* (*Platyschides*) Henderson, 1920: 129, 130, pl. 19, fig. 18. Recent. Off Fowey Light, Florida, *Eolis* stn 340, 209 fms [381 m]. Holotype USNM 314772; paratypes USNM 314772a (24), USNM 314769 (2; *Eolis* stn 303), USNM 314770 (1; *Eolis* stn 304), USNM 314771 (1; *Eolis* stn 306), USNM 314773 (16; *Eolis* stn 347), USNM 314774 (15; *Eolis* stn 348), USNM 314775 (1; *Eolis* stn 371), USNM 314776 and USNM 108176a (2; *Eolis* stn 353), USNM 314777 (10; *Eolis* stn 377), USNM 314778 (6; *Eolis* stn 378), USNM 314779 (1; *Eolis* stn 379), USNM 314780 (3; *Eolis* stn 381), USNM 314781 (9), USNM 330522 (2; USBF stn 2644), MCZ 48413 (2; *Eolis* stn 348), AMNH 148351 (2), ANSP 44912 (*Eolis* stn 348). *Polyschides miamiensis* (Henderson, 1920) (*fide* Emerson in Turgeon 1988: 51). Western Atlantic, Caribbean. 155-381 m.
- † *michauxianum*, *Dentalium* Ryckholt, 1851: 72, 73, pl. 2, figs 47, 48. Cretaceous, Turonian. Liège, Belgium. Remark: based on *Dentalium ellipticum* sensu Reuss 1845 *non* J. Sowerby, 1814.
- † *michelinii*, *Dentalium* Rouault, 1850: 473, pl. 15, figs 6a-6c. Eocene. Bos d'Arros, near Pau, France. *Dentalium mechelini* (Pilsbry & Sharp, 1898: 208) is an incorrect subsequent spelling.
- michelottii*, *Dentalium* Hörnes, 1856: 654, figs 84-86. Miocene. Baden, Vienna Basin, Austria. Lectotype NHM 1846.37.544 (designated by Pavia 1991: 111) + 11 paralectotypes. Tentative junior synonym: *Dentalium dumasi* Cossmann & Peyrot, 1938 (*fide* Pavia 1991: 111). *Dentalium michelottii* Hörnes, 1856. Indian Ocean (0°59'S, 129°48.8'E). 411 m. Remark: this Miocene species was reported from the Recent fauna of the Indian Ocean by Boissevain (1906: 16).
- micra*, *Entalinopsis* Scarabino, 1995: 306, 307, figs 109, 111 c, d, 115c. Recent. South New Caledonia, RV *Vauban* stn 40, 22°30'S, 166°24'E, 250-350 m. Holotype and 6 paratypes MNHN. *Entalinopsis micra* Scarabino, 1995. Indo-Pacific: New Caledonia. 250-350 m.
- microceras*, *Siphonodentalium* Meyer, 1883: 259 [ex Boettger MS]. Oligocene. Joachimsthal, Germany. *Nomen nudum*.
- † *microreticulata*, *Antalis* "?" Welle, 1997: 93, 94, pl. 13, figs 10, 11. Upper Oligocene. Grafenberger Sand. Schacht 8, Bergwerksgesellschaft Sophia Jacoba, near Erkelenz (N of Aachen), Germany. Holotype GPIM D.8-9-1.192; paratypes GPIM (6).
- † *microstria*, *Dentalium* Heilprin, 1881: 375, pl. 20, fig. 3 [original spelling *micro-stria*]. Eocene. Cave Branch and Wood's Bluff, Clarke County, Alabama, USA. Holotype Geological Survey of Alabama, No. 20 (*fide* Palmer & Brann 1965: 367).
- milneedwardsi*, *Dentalium* Locard, 1897b: 10, 11 [Locard 1898: 113, pl. 6, figs 21-24]. Recent. *Talisman* stn 78, 23°55'N, 19°35'W, "Sur les côtes occidentales d'Afrique, au large du Soudan" [Morocco], 1435 m. Syntypes MNHN. Junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877) (n. syn. B. Métyvier, *in litt.* 3.IV.2000). Described from the type locality only.
- † *minimum*, *Dentalium* Buckman in Murchison, 1845: 101 [ex Strickland MS]. Jurassic. Cheltenham, England, Great Britain. Neotype Museum of

- Practical Geology, London, No. 5799 (designated by Richardson 1906: 584) (now in BMNH?). This is also the holotype of *Dentalium portlocki* Tate, 1870. Junior objective synonym: *Dentalium portlocki* Tate, 1870. *Laevidentalium minimum* (Buckman in Murchison, 1845) (*vide* Engeser & Riedel 1992: 38).
- minimum*, *Dentalium* Etheridge & Bell in Bell, 1898: 156, 157. Pliocene. St Erth, Cornwall, England, United Kingdom. Junior homonym of *Dentalium minimum* Buckman in Murchison, 1845. Remark: Pilsbry & Sharp (1898: 310) stated that: "The name is preoccupied; but as this is probably not a valid species, it need not be renamed".
- minimum*, *Siphonodentalium* Plate, 1908b: 4, 5, fig. 5. Recent. Antarctica, Gauss Winterstation, 66°02'S, 89°38'W, 3423 m. Lectotype ZMB 59728a (designated by Kiliyas 1995:175); paralectotype ZMB 59728b. *Striopulsellum minimum* (Plate, 1908) (*vide* Scarabino 1995: 323). Circumantarctic; Indo-Pacific: New Caledonia. 3423-6179 m.
- † *minoensis*, *Siphonodentalium* (*Pulsellum*) Itoigawa, 1960: 274, pl. 3 figs 2, 3. Akeyo Miocene. Stn S11-1, Kujiri facies, near Mizunami, Honshu, Japan. Holotype ESN 20031; paratype ESN 20032.
- † *minor*, *Cadulus gracilina* var. Báldi, Horvath & Makk, 1974: 27. Oligocene, Kiscellian. Budafok, S of Budapest, Hungary.
- minor*, *Cadulus monterosatoi* var. Locard, 1898: 142. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Cadulus monterosatoi* Locard, 1897a.
- minor*, *Cadulus olivi* var. Locard, 1898: 134, pl. 7, figs 10-12. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Polyschides olivi* (Scacchi, 1835).
- minor*, *Cadulus tumidosus* var. Locard, 1898: 143 [*nomen nudum* in Jeffreys 1883: 665]. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Cadulus tumidosus* Jeffreys, 1877.
- minor*, *Dentalium agile* var. Locard, 1898: 117, 118. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Antalis agilis* (G. O. Sars ex M. Sars, 1872).
- minor*, *Dentalium caudani* var. Locard, 1898: 104. Recent. Type locality not specified [North Atlantic]. Syntype MNHN. Synonym of *Dentalium caudani*, a junior synonym of *Fissidentalium candidum* (Jeffreys, 1877).
- minor*, *Dentalium ergasticum* var. Locard, 1898: 106. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Dentalium ergasticum*, a junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877).
- minor*, *Dentalium exuberans* var. Locard, 1898: 112. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Dentalium exuberans*, a junior synonym of *Fissidentalium paucicostatum* (Jeffreys, 1877).
- minor*, *Dentalium panomitanum* var. Locard, 1898: 123. Recent. Type locality not specified. Type material not located. Synonym of *Antalis panorma* (Chenu, 1843).
- minor*, *Dentalium scamnatum* var. Locard, 1898: 110. Recent. Type locality not specified [North Atlantic]. Syntype MNHN. Synonym of *Dentalium scamnatum*, a junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877).
- minor*, *Dentalium semivestitum* var. Locard, 1898: 108, pl. 6, figs 28, 29. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Fissidentalium semivestitum* (Fischer in Locard, 1898).
- minor*, *Dentalium* Stephenson, 1952: 143, pl. 34, figs 4, 5. Upper Cretaceous, Cenomanian, Woodbine Formation. Tarrant County Locality 38, Lewisville member, near railroad, 0.9 mile W of Dallas County border, Tarrant County, Texas, USA. Holotype USNM Paleobiology 105610; paratypes USNM Paleobiology 105611-105612 (Tarrant County localities 41 and 46). Junior homonym of *Dentalium caudani* var. *minor* Locard, 1898 (and seven other *minor* varieties in the same Locard paper). Replacement name: *Dentalium minorinum* n. nom.
- minor*, *Pseudantalis rubescens* var. Monterosato, 1884: 33. *Nomen nudum* without type locality.
- minor*, *Siphonodentalium* [sic] *lofotense* var. Monterosato, 1878: 76. Recent. Mediterranean and Adriatic Seas. *Nomen nudum*.
- † *minorinum*, *Dentalium* n. nom. Upper Cretaceous, Cenomanian, Woodbine Formation. Tarrant County Locality 38, Lewisville member, near railroad, 0.9 mile W of Dallas County border, Tarrant County, Texas, USA. Holotype USNM Paleobiology 105610; paratypes USNM Paleobiology 105611-105612 (localities 41 and 46). Replacement name for *Dentalium minor* Stephenson, 1952 non *Dentalium caudani* var. *minor* Locard, 1898 (and seven other *minor* varieties in the same Locard paper). *Dentalium minorinum* Steiner & Kabat, 2004.
- minus*, *Dentalium* Boissevain, 1906: 14, pl. 6, fig. 3, text-fig. 10. Recent. Java Sea, *Siboga* stn 319, 6°16.5'S, 114°37'E, 82 m. Lectotype ZMA 3.06.008 (designated by Scarabino 1995: 218); paralectotype ZMA 3.06.009 (1). Junior synonym of *Paradentalium hexagonum* (Gould, 1859) (*vide* Scarabino 1995: 218).
- minusculus*, *Cadulus* Dall, 1889: 432. Recent. Off Cape Hatteras, USA, USBF stn 2595, 35°08'N, 75°05'30"W, 63 fms [115 m]. Lectotype USNM 93122 (designated by Henderson 1920: 134); paralectotype USNM 887459 (6). *Cadulus minusculus* Dall, 1889. Known from the type locality only.
- minutalis*, *Gadila* Scarabino, 1995: 362, 363, figs 167, 169g. Recent. Réunion, MD32 stn DS151, 20°51'S, 56°03'E, 3300-3240 m. Holotype and

- 8 paratypes MNHN. *Gadila minutalis* Scarabino, 1995. Indo-Pacific: Réunion Island. 3240-3300 m.
- † *minutiannulatum*, *Dentalium* (*Antalis*) Hodgkinson, 1974: 20, 21, text-fig. 7f-i; pl. 4, figs 2-7, pl. 6, figs 1-3, pl. 7, fig. 2. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Little Brazos River Valley, Brazos County, Texas, USA. Holotype USNM Paleobiology 180467; paratypes USNM Paleobiology 180466, 180468-180471, 180474-180476, PRI 29228; ANSP 31506.
- minutissimum*, *Dentalium* (*Episiphon*) Ludbrook, 1954: 108, fig. 11. Recent. Maldives Is., John Murray Exp. stn 147, 04°53'N, 72°54'E, 27 m. Holotype BMNH 1952.3.25.123; paratypes BMNH 1952.3.25.113-122 (9). *Antalis*(?) *minutissima* (Ludbrook, 1954) (*vide* V. Scarabino, *in litt.* 20.II.2002, tentatively as *Episiphon* in Scarabino 1995: 289). Known from the type locality only.
- minutissimus*, *Cadulus* (*Gadila*) Niino & Habe *in* Habe & Kosuge, 1964: 11. *Nomen nudum*. Recent. Off Phuket [Thailand], 50-80 m.
- † *minutistriatum*, *Dentalium* Gabb, 1860: 386, pl. 67, fig. 46. Eocene, Cook Mountain Formation. Wheelock, Robertson County, Texas, USA. Holotype ANSP 13264 ("broken" *vide* Hodgkinson 1974: 22). *Dentalium* (*Antalis*) *minutistriatum* Gabb, 1860 (*vide* Hodgkinson 1974: 21, 22).
- minutulum*, *Dentalium* Linnaeus, 1758: 786 [citing Plancus 1739: t. 2., f. 2]; emended to *minutum* by Linnaeus (1767: 1264). Recent. Mediterranean. Syntype LS 615. Possible junior synonym: *Gadila gadus* (Montagu, 1803) (*vide* Pilsbry & Sharp 1898: 243, who listed *Dentalium minutum* under spurious Scaphopoda, "[...] is not identifiable, but Hanley surmises that it may be *Cadulus gadus*").
- minutus*, *Cadulus* H. Adams, 1872: 10, pl. 3, fig. 9. Recent. Red Sea. Syntypes BMNH 1872.4.9.6 (4), UMZC I.100.755. *Dischides minutus* (H. Adams, 1872) (*vide* Scarabino 1995: 340). Indian Ocean: Red Sea and Gulf of Aden. Bathymetric range unknown; type specimens "probably washed ashore" (Scarabino 1995: 340).
- minutus*, *Dentalites* Schlotheim, 1813: 91. Cretaceous. Insel Moen, Denmark. *Nomen nudum*.
- † *miocaenicum*, *Pulsellum* Boettger, 1902: 182; 1907: 211. Miocene. Kostej and Lapugy, Banat, Romania. Lectotype SMF XIII.3a (designated by Zilch 1934: 279, pl. 22, fig. 27). *Episiphon miocaenicum* (Boettger, 1902) (*vide* Baluk 1972: 560, 561).
- † *miocenicum*, *Dentalium* Michelotti, 1847: 144, 145, pl. 16, fig. 12. Miocene. Tortona, Italy. *Entalis miocaenica* (Michelotti, 1847) (*vide* Cossmann & Peyrot 1917: 176-178); *Dentalium* (*Entalis*) *miocenicica* Michelotti, 1847 (*vide* Sacco 1897: 108). *miopseudodentalis*, see *miopseudoentalis*.
- † *miopseudoentalis*, *Dentalium* (*Entalis*) Sacco, 1897: 106, pl. 9, figs 7-11 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntypes
- MIGT BS.106.03.003-BS.106.03.005. *Entalis miopseudodentalis* [Ferrero Mortara *et al.* 1984: 306] is an incorrect subsequent spelling.
- mirificum*, *Dentalium* E. A. Smith, 1895: 9, pl. 2, fig. 1. Recent. Ceylon [Sri Lanka], off Trincomalee, *Investigator* stn 172, 200-350 fms [365-639 m]. Lectotype BMNH 1895.7.2.26 (designated by Lamprell & Healy 1998: 137 as "holotype". Their "paratype" could not be located.); paralectotype ZSI M194/1 (1). Junior synonyms: *Entalina quadrangularis* Boissevain, 1906 (*vide* Scarabino 1995: 300); *E. majestica* Kira, 1959 (*vide* Habe 1964: 39; Scarabino 1995: 147). *Entalina mirifica* (E. A. Smith, 1895) (*vide* Pilsbry & Sharp 1897: 134). Indo-Pacific: from Africa to New Caledonia. 55-2050 m. Remarks: two of the four cited type specimens could not be located; Scarabino's (1995: 300) record of four syntypes in the BMNH cannot be confirmed.
- † *misatoensis*, *Dentalium* Araki, 1958: 164, 165, pl. 18, figs 5a, 5b. Miocene. Kaisekizan Formation, near Funayama, Misato-mura, Age-gun, Mie Prefecture, Japan. Holotype Geol. Dept., Mie Univ. (*vide* Hanzawa *et al.* 1961: 209).
- † *mississippiensis*, *Dentalium* Conrad, 1848a: 282; 1848b: 112, 113, pl. 11, fig. 1. "Eocene" [Oligocene]. Vicksburg, Mississippi, USA. Holotype and paratype ANSP 30659 (*vide* MacNeil & Dockery 1984: 245). Tentative senior synonym: *Dentalium virginianum* Chenu, 1843 (*vide* Pilsbry & Sharp 1898: 209). Junior synonym: *Dentalium densatum* Conrad, 1865. *Dentalium mississippiense* Conrad, 1848 (*vide* Pilsbry & Sharp 1898: 209).
- † *missouriense*, *Dentalium* Swallow, 1863: 99. Carboniferous. Archimedes Limestone, Chester, Illinois [USA] and St Mary's, Missouri [USA].
- modicellum*, *Dentalium* Kurtz, 1860: 6. South Carolina. *Nomen nudum*.
- † *molengraaffi*, *Dentalium* (s.s.) Martin, 1915: 179, pl. 7, figs 178, 179. Eocene. Kali Puru, Nanggulan, Java, Indonesia. Syntypes RGM 7265 (1), RGM 7264 (2), RGM 7268 (3), RGM 7261 (1), RGM 7267 (3), RGM 7259 (3), RGM 7266 (1), RGM 7263 (1) (*vide* Van den Hoek Ostende *et al.* 2002: 111, 112).
- monodonta*, *Gadila* Scarabino, 1995: 363, figs 168, 169i. Recent. Mozambique Channel, West [of] Glorieuses Is., BENTHEDI stn DS10, 11°28.5'S, 47°17.7'E, 440 m. Holotype MNHN; paratypes MNHN (1 each from DS120 and DS122). *Gadila monodonta* Scarabino, 1995. Indo-Pacific: Madagascar to New Caledonia. 390-625 m.
- monolineata*, *Plagioglypta* Branson, 1930: 58, 59, pl. 15, fig. 7. Late Pennsylvanian to early Triassic. Top Limestone, Phosphoria Formation, Wind River and Owl Creek Mountains, Wyoming, USA. Junior synonym of *Prodentalium canna* (White, 1874) (*vide* Yancey 1973: 1126; 1978: 308, 309).
- † *montense*, *Dentalium* Briart & Cornet, 1889: 80, pl. 24, figs 12a, 12b. Upper Eocene. Mons, Belgium.

- Tentative junior synonym: *Fustiaria inversa* (Cossmann, 1915) (n. syn.). *Fustiaria montense* (Briart & Cornet, 1889). Remark: Cossmann (1915: 6, 7) noted that the only difference between *Dentalium* (*Fustiaria*) *inversum* and *Dentalium montense* is the position of the apical slit.
- monterosatoi*, *Cadulus* Locard, 1897a: 4. Recent. West of Cape Finistere [Cabo Finisterra], Spain, *Travailleur* 1881 dr. 1, 2018 m. Type material not located. Synonym: *Cadulus monterosatoi* var. *ventricosa* Locard, 1898. *Cadulus monterosatoi* Locard, 1897. Eastern Atlantic: Bay of Biscay to Portugal. 896-3307 m.
- † *monterosatoi*, *Dentalium rectum* var. Pilsbry & Sharp, 1898: 214. Tertiary. Sicily, Italy. Replacement name for *Dentalium philippi* Monterosato, 1872 non Chenu, 1843.
- moorei*, *Dentalium* Pilsbry & Sharp, 1898: 224. Cretaceous. Wollumbilla, Queensland, Australia. Replacement name for *Dentalium lineatum* Moore, 1870 non Gueranger, 1853. Objective junior synonym of *Dentalium wollumbillaensis* Etheridge in Jack & Etheridge, 1892. Remark: Pilsbry & Sharp (1898) inadvertently overlooked the earlier replacement name.
- † *moreanum*, *Dentalium* d'Orbigny, 1845: 454, pl. 38, fig. 10. Jurassic. Kaminka, Russia; Vieil-Saint-Rémy, Ardennes, France. Remark: this species was misidentified as *Dentalium cylindricum* J. Sowerby, 1814 by Fischer (1845).
- moreauanum*, *Dentalium* Bronn, 1848: 415; 1849: 359. Unjustified emendation of *Dentalium moreanum* d'Orbigny, 1845.
- † *morganianum*, *Dentalium* (*Laevidentalium*) Wilckens, 1922: 24, 25, pl. 5, figs 8, 9. Cretaceous, Upper Senonian. NZGS Localities 5 and 13 (Amuri Bluff) and NZGS locality 589 (Selwyn Rapid beds, Selwyn River, Malvern Hills), New Zealand.
- mosae*, *Dentalium* – Bronn 1837: 706, pl. 32, fig. 18, non *Pyrgopolon mosae* Montfort, 1808 (Polychaeta). Cretaceous. Petersberges near Maastricht (Netherlands); Ciplu, near Mons (Belgium); Köpingemolla, Schoonen (Sweden?). Remark: Hisinger (1840: Supp., p. 8) suggested that Bronn's specimens could be equivalent to *Dentalium browni* Hisinger, 1837 (Polychaeta); but Goldfuss (1841: 3, pl. 166, fig. 10) used *mosae* as a valid species of *Dentalium*.
- mosae*, *Pyrgopolon* Montfort, 1808. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *moseleyensis*, *Cadulus* (*Gadila*) Hodgkinson, 1974: 17, text-fig. 8g, h; pl. 1, figs 3, 4, pl. 2, fig. 3. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Stone City Bluff, Brazos River Valley, Burleson County, Texas, USA. Holotype USNM Paleobiology 180428; paratypes USNM Paleobiology 180427, 180444, PRI 29221, ANSP 31499.
- motidukii*, *Dentalium* (*Antalis*) Otuka, 1935: 879, 880, pl. 54, fig. 89. Recent. Hiradoko, Japan.
- Holotype GIY 2400. Junior synonym of *Dentalium buccinulum* Gould, 1859 (*vide* Habe 1964: 25).
- † *mucronatus*, *Cadulus* Tate, 1887: 193, 194, pl. 20, fig. 10. Lower Miocene. Muddy Creek, Victoria, Australia. Holotype and 14 paratypes SAM T 229A. *Cadulus* (*Gadila*) *mucronatus* Tate, 1887 (*vide* Ludbrook 1959: 147, pl. 1, fig. 8).
- † *muellerianum*, *Dentalium* Pilsbry & Sharp, 1898: 224. Cretaceous. Königsthore, Germany. Replacement name for *Dentalium alternans* Müller, 1849 non Chenu, 1843.
- muensteri*, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898: 224. Jurassic. Derneberg, near Hannover, Germany. Replacement name for *Dentalium cinctum* "Goldfuss, 1844" [sic, should be 1841] non de Koninck, 1843. Remark: Pilsbry & Sharp (1898: 224) erroneously dated this name to 1844, and therefore concluded that it was a junior homonym of *Dentalium cinctum* de Koninck, 1843. Thus, Pilsbry & Sharp proposed *Dentalium muensteri* as a replacement name for what is, in fact, the senior homonym.
- † *multannulatum*, *Dentalium* Aldrich, 1895: 55 [3], pl. 2 [1], fig. 3. Eocene. Gregg's Landing, Alabama, USA. Lectotype USNM Paleobiology 638920 (designated by Palmer & Brann 1965: 369 as "holotype").
- † *multicanaliculatum*, *Dentalium* Gümbel, 1861: 572. Cretaceous. Siegsdorf, Bavaria, Germany.
- † *multiclastratum*, *Dentalium* Martelli, 1905: 351, pl. 11, fig. 39. Triassic, Ladinian. Wengen, Montenegro.
- † *multicostatum*, *Dentalium* Favre, 1869: 101, pl. 12, fig. 8. Cretaceous. Nagorzany, Lviv [Lemberg], Ukraine. Holotype NHM 1862/0005/0130. Remark: this species was misidentified as *Dentalium decussatum* Sowerby, 1814 by Alth (1850).
- multicostata*, *Dentalium arctoides* var. *Gugenberger*, 1934: 43, pl. 1, fig. 15 [*nomen nudum* in *Gugenberger* 1933a: 102; 1933b: 184]. Triassic. N of Launsdorf, Austria. Junior homonym of *Dentalium multicostatum* Favre, 1869; replacement name: *Prodentalium angelae* Engeser & Riedel, 1992.
- multistriatum*, *Dentalium* Deshayes, 1825: 358, pl. 18, fig. 11. Recent. "[presumably from India]" [label of type lot: Île de France = Mauritius]. Lectotype MNHN (designated by Scarabino 1995: 201); paralectotypes MNHN (13). Junior synonym of *Dentalium variabile* Deshayes, 1825 (*vide* Scarabino 1995: 200, by First Reviser action, according to ICZN 1999: article 24).
- † *multistrictum*, *Laevidentalium* Finlay & Marwick, 1937: 93, pl. 13, fig. 3. Paleocene. Wangaloa, New Zealand. Holotype NZGS TM4811; paratypes NZGS (2) (*vide* Keyes 1972: 96). *Antalis multistricta* (Finlay & Marwick, 1937) (*vide* Maxwell 1988: 76).
- † *mutabile*, *Dentalium* Hörnes, 1856: 654, pl. 50, fig. 32 [ex Doderlein MS]. Miocene, Badenian.

- Steinabrunn, Wiener Becken, Austria. Lectotype NMW 1855.XLV.271 (selected by Pavia 1991: 124); paralectotypes NMW 1855.XLV.271a-d (4). *Fissidentalium mutabile* (Hörnès, 1856) (*vide* Pavia 1991: 124-126).
- nagoense*, *Dentalium* Dall, 1927: 1. Recent. Nago, Okinawa, Ryukyu Islands, 15 fms [27 m]. Holotype USNM 333718. Junior synonym of *Fustiaria nipponica* (Yokoyama, 1922) (*vide* Habe 1963: 266).
- † *nanaimoensis*, *Dentalium* Meek, 1858: 44, 45. Cretaceous. Nanaimo, Vancouver Island, British Columbia, Canada. Holotype USNM Paleobiology 4270. Junior synonym: *Dentalium komookense* Meek, 1876 (*vide* Pilsbry & Sharp 1898: 225). *Dentalium nanaimoense* Meek, 1858 (*vide* Pilsbry & Sharp 1898: 225).
- † *nanggulanense*, *Dentalium* (s.s.) Martin, 1915: 179, 180, pl. 7, figs 180-182. Eocene. Sumatra, Indonesia. Syntypes RGM 7250 (17), RGM 7245 (3), RGM 7247 (2), RGM 7248 (5), RGM 47182 (5), RGM 7246 (2), RGM 7251 (1), RGM 7249 (4) (*vide* Van den Hoek Ostende *et al.* 2002: 112). Remark: this species was misidentified as *Dentalium junghubni* by Boettger (1882).
- nanum*, *Dentalium* Hutton, 1873b: 73, pl. 8, fig. 78. Castlecliffian, Pliocene. New Zealand. Lectotype NZGS TM.4807 (designated by Keyes 1972: 96). Junior synonyms: *Dentalium huttoni* Kirk, 1880; *Dentalium marwicki* Mestayer, 1926 (*vide* Dell 1957: 570). *Antalis nana* (Hutton, 1873) (*vide* Dell 1957: 570). New Zealand; Antarctica. 30-320 m.
- nanus*, *Cadulus* (*Gadila*) *iota* Clench & Aguayo, 1939: 197. Recent. Gibara, Oriente Province, Cuba, 40 fms [73 m]. Holotype MCZ 89222; 1 paratype Museo Poey, Habana (Havana), Cuba. Synonym of *Gadila iota* Henderson, 1920.
- natalense*, *Dentalium* Barnard, 1963b: 350, fig. 30e. Recent. South Africa, off Cape Natal, Durban, 85 fms [153 m]. Syntypes BMNH 1964257 (6), SAFM A9364 (49) (*vide* Giles & Gosliner 1983: 41). *Paradentalium natalense* (Barnard, 1963) (*vide* Scarabino 1995: 219). Indian Ocean: South Africa to Madagascar. 50-670 m.
- † *navarroi*, *Dentalium* Stephenson, 1941: 253, pl. 46, figs 16, 17. Cretaceous, Navarro Group, Kemp Clay. USGS locality 762, Nacatoch sand near Chatfield, Navarro County, Texas, USA. Holotype USNM Paleobiology 76767, paratypes USNM Paleobiology 76768 (1); 76769 (1).
- † *navicanum*, *Dentalium* Ryckholt, 1851: pl. 10, fig. 2; 1854: 198. Carboniferous. Visé, Belgium.
- † *navidadense*, *Dentalium* Pilsbry & Sharp, 1898: 210. Tertiary. Navidad, Chile. Replacement name for *Dentalium gracile* Philippi, 1887 non *Dentalium gracile* Hall & Meek, 1855 nec *Dentalium gracile* Moore, 1866 nec *Dentalium gracile* Jeffreys, 1870.
- nebulosum*, *Dentalium* Gmelin, 1791: 3738. [No references given]. Recent. Sicily [Mediterranean]. Junior synonym of *Antalis vulgaris* (Da Costa, 1778) (*vide* Pilsbry & Sharp 1897: 42).
- nedallisoni*, *Cadulus* (*Polyschides*) Emerson, 1978: 120-122, figs 4-6. Recent. Corinto, Nicaragua, Zaca Exp. stn 200-D-19, 12°28'03"N, 87°12'39"W, 22-24 m. Holotype AMNH 160349; paratypes AMNH 183875 (30), LACM 2117 (2). *Polyschides nedallisoni* (Emerson, 1978). Eastern Pacific: Nicaragua. 22-24 m.
- † *neglectum*, *Pulsellum* Cossmann, 1888: 11, pl. 1, figs 2, 3. Eocene. Le Guépelle, Marines and Chaussy, France. *Siphonodentalium neglectum* (Cossmann, 1888) (*vide* Pilsbry & Sharp 1898: 235). Remark: a valid species of *Dischides* (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 86).
- neohexagonum*, *Dentalium* (*Dentalium*) Sharp & Pilsbry in Pilsbry & Sharp, 1897: 19, 20, pl. 11, figs 74-86. Recent. Santa Barbara; San Pedro Bay; San Diego [all California]. Syntypes ANSP 35459 (4). *Dentalium neohexagonum* Sharp & Pilsbry in Pilsbry & Sharp, 1897. Eastern Pacific: California. 0-145 m.
- † *neornatum*, *Dentalium* Hayasaka, 1925: 108, 109 [24, 25], pl. 8 [1], figs 18-18b. Permian. Kinshozan, Akasaka-Machi, Mino province, Japan. Holotype Instn Geol. Paleont., Tohoku Univ. (*vide* Hanzawa *et al.* 1961: 209).
- newcombei*, *Cadulus* (*Gadila*) *tolmiei* var. Pilsbry & Sharp, 1898: 182, pl. 34, figs 1, 2. Recent. Type locality not specified. Type material not located. Synonym of *Gadila tolmiei* (Dall, 1897).
- † *newtonensis*, *Cadulus* Meyer & Aldrich, 1886: 41, pl. 2, figs 3, 3a, 3b. Eocene. Newton, Newton County, Mississippi, USA. Syntype USNM Paleobiology 638727. Remarks: this name was tentatively proposed for "two depressed fragments" of *Cadulus*: "If, however, the form should prove to be a new species we propose the name *Cadulus newtonensis* for it". Pilsbry & Harbison (1933: 117) suggested that it is a junior synonym of *Cadulus jacksonensis* Meyer, 1885, but Palmer & Brann (1965: 362) listed both species as valid.
- † *niceforoi*, *Dentalium* Royo y Gomez, 1945: 460: pl. 70, fig. 1. Lower Cretaceous, Barremian. Tower Villeta Formation, San Gil, Departamento de Santander, Colombia.
- † *nicense*, *Dentalium* Bellardi, 1852: 229, pl. 15, figs 9, 10 [as *niceense*, a *nomen nudum* in Bellardi 1850: 681]. Oligocene. Palarca and Mortola, Italy. *Dentalium nitense* [Gümbel, 1861: 604] is an incorrect subsequent spelling (*vide* Pilsbry & Sharp 1898: 210).
- nicklesi*, *Cadulus* Dell, 1964: 129, 130, pl. 7, fig. 5. Recent. Cape Lopez, Angola. *Discovery* stn 279, 58-67 m. Holotype BMNH 1962883/1; paratypes BMNH 1963300-303 (1 of them from stn 274, St Paul de Loanda, Angola, 65 m). *Gadila nicklesi* (Dell, 1964) (*vide* Nicklès 1979: 69). Eastern Atlantic: West Africa. 29-200 m. Remark: Nicklès

- (1979) listed this species as *C. (Platyschides) nicklesi*, and the subgenus *Platyschides* was put in synonymy with *Gadila* by Scarabino (1995: 196, 355).
- nicolasi*, *Annulipulsellum* Palmer, 1986: 396 [ex Scarabino MS]. *Nomen nudum*.
- nielsenii*, *Graptacme* Lamprell & Healy, 1998: 98, 99, figs 99B, 100A, 102A-D, 103. Recent. Off Cairns, northern Queensland, Australia, 11°22'S, 144°35'E, 2016 m. Holotype QM MO40055; paratypes QM MO40057 (8), QM MO40056 (1; northern Queensland, 14°27'S, 146°51'E, 1855 m), QM MO40058 (3; northern Queensland, 11°23'S, 144°36'E, 1999 m), AMS C201736 (2; northern Queensland, 11°23'S, 144°36'E, 1999 m). *Graptacme nielsenii* Lamprell & Healy, 1998. Indo-Pacific: northern Australia. 1855-2016 m.
- † *nigeriense*, *Dentalium (Laevidentalium)* Adegoke, 1977: 63, 64, pl. 7, figs 5-10. Paleocene. Nigeria. Holotype UIMG 179; paratypes UIMG 180, UIMG 181, USNM Paleobiology 174765, 174766.
- nigrofasciatum*, *Dentalium* Eichwald, 1830. Not a scaphopod. See Other taxa described as Scaphopoda.
- nigrum*, *Dentalium* Lamarck, 1818. Not a scaphopod. See Other taxa described as Scaphopoda.
- nipponicum*, *Dentalium (Fustiaria)* Yokoyama, 1922: 119, pl. 6, fig. 7. Pleistocene. Shito, Honshu, Japan. Lectotype UMT CM.21050 (designated by Taki & Oyama 1954: caption to pl. 26, fig. 7, as "holotype"; see Oyama [1973: 3] for an explanation of Taki & Oyama's [1954] lectotype designations). Junior synonyms: *Dentalium nagoense* Dall, 1927; *Dentalium numatai* Hirase, 1931 (fide Habe 1963: 266, 267). *Fustiaria nipponica* (Yokoyama, 1922) (fide Habe 1963: 266). Indo-Pacific: Indonesia to Japan and New Caledonia. 5-200 m.
- † *nipponicum*, *Siphonodentalium* Makiyama, 1927: 59, pl. 2, figs 17-19. Lower Pliocene. Hônohasi, Saigo-mura, near Kagewawa, Japan. Holotype FGK JC.200224 (fide Hanzawa *et al.* 1961: 210).
- † *nitens*, *Dentalium* J. Sowerby, 1814: 159, pl. 70, figs 1, 2. Lower Eocene. Highgate, London Clay, England, United Kingdom. *Fustiaria nitens* (J. Sowerby, 1814) (fide Newton 1891: 285, 286). Possible junior synonym: *Dentalium incertum* Deshayes, 1825 (fide Deshayes 1861: 202). Remarks: this name was incorrectly applied by Eudes-Deslongchamps (1842: 129, 130) to the species subsequently described as *Dentalium norminum* d'Orbigny, 1850, from the Jurassic of France, and by Dixon (1850) to the species subsequently described as *Dentalium lucidum* Deshayes, 1861 (fide Pilsbry & Sharp 1898: 208).
- nitense*, see *nicense*.
- nitentior*, *Cadulus* Arnold, 1903: 187, pl. 8, fig. 13 [ex Carpenter MS]. Recent. California coast; Pleistocene of San Pedro, San Diego; Pliocene of San Diego well. Lectotype CAS (designated by Palmer 1958: 119); paralectotypes CAS (San Pedro, California), USNM 23729. Junior synonym of *Gadila aberrans* (Whiteaves, 1887) (fide Shimek 1989: 235). Remarks: Pilsbry (1904: 108) expressed doubts as to the scaphopod nature of *nitentior*: "The figure and description given fix the name *nitentior* on what seems to be the tube of a serpulid annelid". Shimek (1989: 235) designated USNM 23729 as lectotype of *C. aberrans*; this is invalid because it is not a syntype of that species. Palmer (1958: 119) stated that the figured specimen (which Arnold said was "now in the collection of Delos Arnold") was the holotype of this species. Since Arnold reported this species from several localities, Palmer's action constitutes a lectotype designation; the CAS type specimens are not labeled as to which specimen is the figured specimen, so it remains to be determined which specimen, if any, is the lectotype. However, Palmer (1958: 119) erroneously stated that USNM 23729 (30 fms, Catalina Island) "has no status in a type category" since this specimen is from a locality included by Arnold in his description, it was a syntype and is now a paralectotype.
- † *nitidum*, *Dentalium* Deshayes, 1861: 203, pl. 1, figs 29, 30. Eocene. Paris Basin (Châlons-sur-Vesles, Aizy, Mercin, Laversine, and Cuise-la-Motte), France. Remark: a valid species of *Laevidentalium* (fide Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- nitidus*, *Cadulus (Platyschides)* Henderson, 1920: 129, pl. 19, fig. 9. Recent. Mayaguez Harbor, Puerto Rico, USBF stn 6062, 25 fms [46 m]. Holotype USNM 887474; paratypes USNM 161582, AMNH 148353 (3). *Polyschides nitidus* (Henderson, 1920) n. comb. Known from the type locality only.
- nivosum*, *Dentalium* Kuroda & Kikuchi, 1933: 7, 8, pl. 1, figs 9-11, text-figs 1, 2. Recent. Toyama Bay, Japan, 80-150 m. Type material not located. Junior synonym of *Entalinopsis intercostata* (Boissevain, 1906) (fide Habe 1963: 272).
- † *nobile*, *Dentalium* Mayer, 1863: 97, 98. Tertiary. Hoering, Germany ["Couches tongriennes de Hoering"]. Remark: type specimen(s) stated to be in the "Musée de mines de Munich [Germany]".
- nodosus*, see *nodulosus*.
- † *nodulosus*, *Dentalites* Schlothheim, 1820: 94, 95. Cretaceous. Insel Moen, Denmark. *Dentalites nodosus* [Krueger, 1823: 312] is an incorrect subsequent spelling.
- noe*, *Dentalium* Sismonda, 1847: 24 [ex Bonelli MS]. *Nomen nudum*. Pliocene. Piedmont, Italy.
- † *noe*, *Dentalium sexangulum* var. Sacco, 1897: 94, pl. 7, figs 57-61 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Italy (various localities). Syntypes MIGT BS.106.01.010, BS.106.01.011, BS.106.01.012 (fide Ferrero Mortara *et al.* 1984: 301).
- † *noetlingi*, *Dentalium* Martin, 1915: 180. Miocene. Singu and Kama, Burma. Remark: Martin (1915)

- rejected Noetling's claim that his Burma specimens were conspecific with *Dentalium junghuhni* described from Java, Indonesia. Noetling (1901: 250) claimed that his Burma specimens of "junghuhni" were "absolutely identical with" *Dentalium magnificum* E. A. Smith, 1896, a Recent species from the Indian Ocean. Martin's subsequent conclusion that the Burma specimens were not referable to *Dentalium junghuhni* means that *Dentalium magnificum* is no longer a junior synonym, and indeed may now be a senior synonym of *Dentalium noetlingi*.
- † *normanianum*, *Dentalium* d'Orbigny, 1850 (volume 2): 46. Jurassic. Villerville, France. Remark: this species was misidentified as *Dentalium nitens* by Eudes-Deslongchamps (1842).
- † *notabile*, *Dentalium* Eichwald, 1857: 583. Silurian ["Grauwackenkalksteine"]. Pulkowa, Russia. Remark: figured by Eichwald, 1860: 1061, pl. 40, fig. 9; 1868: 800, 801, pl. 28, fig. 1.
- novae-hollandiae*, *Dentalium* Chenu, 1843: pl. 6, fig. 14; 1852: 5. Recent. Australia. Type material not located. *Graptacme? novae-hollandiae* (Chenu, 1843) (*vide* Pilsbry & Sharp 1897: 93). No information on geographic or bathymetric distribution available.
- † *novaki*, *Dentalium* Koenen, 1892: 978-980, pl. 59, figs 7, 8. Oligocene. Morigny, France. Remark: Merklin & Goncharova (1967: 118) listed *novaki* as a junior synonym of *acutum* Hébert, but Janssen (1978b: 199) treated it as a valid species of *Fissidentalium*.
- † *novaresei*, *Dentalium* (*Plagioglypta*) de Stefani, 1917: 42, 43, pl. 4, fig. 6. Carboniferous. Elba, Italy.
- † *novemcinctum*, *Dentalium* "?" Sacco, 1897: 96, 97, pl. 7, fig. 97 [as a *nomen nudum* in Sacco 1896: 97]. Oligocene. Sassello, Italy. Holotype MIGT BS.106.01.045 (*vide* Ferrero Mortara *et al.* 1984: 303, pl. 56, fig. 1). Remark: Bonci *et al.* (2000: 206) concluded that this was a valid species, referable to *Dentalium* (*Dentalium*).
- novemcostatum*, *Dentalium* Lamarck, 1818: 344. Recent. Around La Rochelle, France [Atlantic]. Possible syntypes MHNG 1081/54 (5; *vide* Y. Finet, *in litt.* 16.X.1996). *Antalis novemcostata* (Lamarck, 1818) (*vide* Pilsbry & Sharp 1897: 51). Eastern Atlantic: Europe. 20-300 m.
- noviluna*, see *novilunatus*.
- novilunatus*, *Cadulus* (*Platyschides*) Kira, 1959: 104, pl. 40, fig. 2 [*nomen nudum* in Habe 1953: 298, and in Kira 1954: 80, pl. 40, fig. 2; see Bieler & Petit 1990: 141]. Recent. Shikoku, Japan. Type material not located. Junior synonym of *Gadila virginalis* (Boissevain, 1906) (*vide* Habe 1963: 279). Remarks: although Habe (1963: 279, 1964: 49, 1977: 342) and Habe & Kosuge (1964: 12) included *G. novilunata* in the synonymy of *virginalis*, Scarabino (1995: 358) stated that he "... prefer[s] to keep them separate pending further study". *Gadila noviluna* [Habe 1977: 342] is an incorrect subsequent spelling.
- † *novum*, *Dentalium* Chenu, 1843: pl. 6, fig. 23; 1850: 5. Type locality not specified (Tertiary, *vide* Pilsbry & Sharp 1898: 210).
- † *nudum*, *Dentalium* Zekeli, 1852: 118, pl. 24, figs 1, 2. Jurassic. Edelbachgraben, Gosautal, Austria.
- numatai*, *Dentalium* (*Fustiaria*) Hirase, 1931: 139, pl. 3, fig. 11. Recent. Osumi and Oshima [Japan]. Type material not located. Junior synonym of *Fustiaria nipponica* (Yokoyama, 1922) (*vide* Habe 1963: 267).
- † *numerosa*, *Plagioglypta* Yoo, 1988: 248, figs 148-151. Early Carboniferous, Late Tournaisian, Dangarfield Formation. Locality A-3, 2.6 km SW of Gundy, Upper Hunter, New South Wales, Australia. Holotype AMS F.61996; paratypes AMS F.61997 (20).
- numerosum*, *Dentalium* Dall, 1895: 686. Recent. From the Galapagos to California. Syntypes LACM 1755 (near Isla Cedros, Pacific coast Baja California, México, 28°12'N, 115°09'W, 80 m), SBMNH 35016, USNM 87559, USNM 203102, USNM 600413 (all from Baja California Norte, near Isla Cedros, *Albatross* stn 2823, 24°18'N, 110°22'W, 26 fms [48 m]). Junior synonym of *Dentalium oerstedii* Mörch, 1861 (*vide* Pilsbry & Sharp 1897: 25).
- † *nunomae*, *Dentalium* Takeda, 1953: 62, 63, pl. 4, fig. 8, pl. 5, fig. 12. Oligocene, Poronai Formation. Hokkaido University Locality T268, southern Sakhalin Island, Russia. Holotype Hokkaido University No. 11090; paratype Hokkaido University No. 11089 (Locality T211).
- † *nutans*, *Cadulus* Böhm, 1891: 70, pl. 4, fig. 26. Cretaceous. Höpfling, near Siegsdorf, southern Bavaria, Germany.
- nutans*, *Dentalium* Kner, 1850: 23, 24, pl. 4, figs 10, 10a. Cretaceous. Nagórzany, Ukraine. Junior synonym of *Dentalium decussatum* J. Sowerby, 1814 (*vide* Pilsbry & Sharp 1898: 221).
- nysti*, *Dentalium* d'Orbigny, 1852 (volume 3): 18. Tertiary, Falunian. Klein-Spauwen, Hoesselt, Lethen, Belgium. Junior synonym of *Dentalium acutum* Hébert, 1849 (*vide* Pilsbry & Sharp 1898: 197). Remark: this species was misidentified as *Dentalium grande* Deshayes, 1825 by Nyst (1843).
- nysti*, *Dentalium* Van den Binkhorst, 1861: 61, pl. 6, fig. 2a-2c. Cretaceous. Limbourg, Belgium. Junior homonym of *Dentalium nysti* d'Orbigny, 1852. Replacement name: *Dentalium binkhorsti* Pilsbry & Sharp, 1898.
- obesus*, *Cadulus* Watson, 1879: 527, 528 [Watson 1886: 22, pl. 3, fig. 8]. Recent. Culebra Island [Lesser Antilles], *Challenger* stn 24, 18°38'30"N, 65°05'30"W, 390 fms [712 m]. Syntypes BMNH 1887.2.9.84-87 (labelled "in advanced stage of decay; Palmer 1971"). *Cadulus obesus* Watson, 1879. Western Atlantic, Caribbean. 365-712 m.
- † *obliquatus*, *Cadulus* Koenen, 1892: 990, pl. 59, figs 19, 20. Lower Oligocene. Lattorf, Calbe, Atzendorf, and Unseburg, Germany.

- † *oblongum*, *Dentalium* Richardson, 1906: 585, pl. 45, fig. 3. Jurassic, Pliensbachian. Railway-cutting, Dixton West, near Gotherington, near Cheltenham, England, United Kingdom. Remark: Engeser & Riedel (1992: 38) stated that "This species cannot be attributed to any known scaphopod genus and therefore a new genus should be proposed".
- obnutus*, see *obrutus*.
- † *obrutus*, *Gadus* Conrad, 1870a: 227. Emendation for *Gadus* "*obnutus*" Conrad, 1869b. Cretaceous. Haddonfield, New Jersey, USA. Syntype ANSP 19502. *Cadulus obrutus* (Conrad, 1870) (*vide* Pilsbry & Sharp 1898: 238).
- obscurum*, *Dentalium gouldii* var. Dall, 1889: 425, pl. 27, fig. 4. Recent. Off Barbados, Lesser Antilles, Blake stn 299, 13°05'N, 59°39'40"W, 140 fms [256 m]. Lectotype USNM 95351 (designated by Henderson 1920: 32); paralectotypes USNM 887460, MCZ 7695, MCZ 7708 (erroneously stated to be the holotype by Turner 1955: 319). *Dentalium obscurum* Dall, 1889 (*vide* Henderson 1920: 32). Western Atlantic: Caribbean and Brazil. 146-1540 m.
- † *obsoletum*, *Dentalium* Hall, 1858: 724, pl. 29, figs 16, 17. Carboniferous. Iowa, USA. Syntype FM UC.10722 (*vide* Forney & Nitecki 1976: 11). Objective junior synonyms: *Dentalium sublaeve* Hall, 1877; *Prodentalium fredericae* Engeser & Riedel, 1992. Junior synonym: *Dentalium acutisulcatum* Gurley, 1883 (*vide* Yancey 1978: 307). *Prodentalium obsoletum* (Hall, 1858) (*vide* Engeser & Riedel 1992: 41). Remarks: this is a valid name and not a junior secondary homonym of *Dentalites obsoletum* Schlotheim, 1832, which is a *nomen nudum*. The replacement names, *Dentalium sublaeve* Hall in Miller, 1877 (being itself a junior homonym of *Dentalium sublaeve* Cocconi, 1874) and *Prodentalium fredericae* Engeser & Riedel, 1992 are, therefore, unnecessary.
- obsoletum*, *Dentalium* Doderlein, 1864: 97 [15]. *Nomen nudum*. Miocene. Monte Gibio (Modena), Santo Agata (Tortona) and Vigoleno (Piacenza), Italy. Junior homonym of *Dentalium obsoletum* Hall, 1858. See *Dentalium dentalis* var. *sublaevis* Cocconi, 1874.
- obsoletus*, *Dentalites* Schlotheim, 1813: 100; 1832: 67. Tonna, Sachsenberg, Germany. *Nomen nudum*.
- obtusum*, *Dentalium* Qi & Ma, 1989: 114, fig. 3. Recent. Zhejiang Province, China. Type in IOAS. *Dentalium obtusum* Qi & Ma, 1989. Indo-Pacific: China Sea. 0-5 m.
- occidentale*, *Dentalium* Stimpson, 1851b: 28. Recent. Deep water on the coast of Maine, and in Massachusetts Bay [Western Atlantic]. Type material presumably lost (*vide* Johnson 1976: 66). Junior synonyms: *Dentalium abyssorum* M. Sars, 1859 (*vide* Pilsbry & Sharp 1897: 47); *Dentalium cinerascens* Anton, 1838 (*vide* Pilsbry & Sharp 1897: 48, as tentative senior(!) synonym); *Dentalium aenigmaticum* Jordan, 1895 (*vide* Friele & Grieg 1901: 49). *Antalis occidentalis* (Stimpson, 1851) (*vide* Pilsbry & Sharp 1897: 47). North Atlantic. 36-1823 m. Remarks: Emerson in Turgeon (1998: 54) listed this species in the synonymy of *Antalis entalis* (Linnaeus, 1758); further study of the taxonomy of these species is needed. This species was misidentified as *Dentalium dentale* by Gould (1841).
- occidentale*, *Siphonodentalium (Pulsellum)* Henderson, 1920: 93, pl. 16, fig. 4. Recent. Off Martha's Vineyard [Massachusetts], USBF stn 871, 40°05'39"N, 70°23'52"W, 86 fms [157 m]. Holotype USNM 38702; paratype MCZ 186823 (2). *Pulsellum occidentale* (Henderson, 1920). Western Atlantic: Massachusetts, USA. 157-1794 m.
- occiduus*, *Cadulus* Verco, 1911b: 218, pl. 26, fig. 7. Recent. Geographe Bay, off Bunbury, West Australia, 15 fms [27 m]. Holotype SAM D 13759. *Cadulus occiduus* Verco, 1911. Indo-Pacific: western Australia. 27-2900 m. Remark: the 7 paratypes could not be located.
- octangulatum*, *Dentalium* Donovan, 1803: pl. 162. Recent. Japan. Neotype BMNH 1952.2.23.1 (designated by Ludbrook 1954: 97). Junior synonyms: *Dentalium octogonum* Lamarck, 1818; *Dentalium striatulum* Turton, 1819 (*vide* Pilsbry & Sharp 1897: 17); *Dentalium yokohamense* Watson, 1879; *Dentalium japonicum* Dunker, 1877 (*vide* Habe 1964: 8). *Dentalium octangulatum* Donovan, 1803. Indo-Pacific: Red Sea to Japan and New Guinea. 5-1380 m. Remarks: the original type locality was "near Lelant, Cornwall, England". However, the type material was mislocalized, and Ludbrook's designation of a neotype from Japan fixes the type locality as Japan (ICZN 1999: article 76.3).
- † *octevillense*, *Dentalium* Cossmann, 1899b: 329, pl. 2, fig. 8. Cretaceous. Cenomanian. Octeville, Seine-Inférieure [Seine-Maritime], France.
- octocostatum*, *Dentalium* Fraas, 1867. Not a scaphopod. See Other taxa described as Scaphopoda. Remark: Blanckenhorn (1927: 123, 124, pl. 1, figs 2-8) considered this to be a valid species of *Dentalium*, but he did not discuss the contrary conclusion of Pilsbry & Sharp (1898: 245).
- octocostatum*, *Dentalium* Ihering, 1897: 266, 267, pl. 4, fig. 16. Tertiary, Santa Cruz Formation. Yegua Quemada, Patagonia, Argentina. Junior homonym of *Dentalium octocostatum* Fraas, 1867 [Polychaeta]. Replacement name: *Dentalium octocostellatum* Pilsbry & Sharp, 1898.
- † *octocostellatum*, *Dentalium* Pilsbry & Sharp, 1898: 211. Tertiary, Santa Cruz Formation. Yegua Quemada, Patagonia, Argentina. Replacement name for *Dentalium octocostatum* Ihering, 1897 *non* Fraas, 1867 (Polychaeta). Junior synonym: *Dentalium gallardoi* Rovereto, 1921 (*vide* Feruglio 1949b: 203, footnote).

- † *octogonalis*, *Dentalium* (Antale “?”) *taurocostatum* var. Sacco, 1897: 102, pl. 8, fig. 57 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.02.049 (*vide* Ferrero Mortara *et al.* 1984: 305).
- octogonum*, *Dentalium* Lamarck, 1818: 344. Recent. Sea of China. Syntypes MNHN (2; *vide* Scarabino 1995: 200), possible syntypes MHNG 1081/53 (4; *vide* Y. Finet, *in litt.* 16.X.1996). Junior synonym of *Dentalium octangulatum* Donovan, 1803 (*vide* Pilsbry & Sharp 1897: 17).
- octogonum*, *Dentalium* Rayneval, Hecke & Ponzi 1854: 13, 19. Pliocene. Monte Mario, Rome, Italy. Junior homonym of *Dentalium octogonum* Lamarck, 1818. Remark: the very short general description and the lack of illustrations and types renders this a dubious species for which we prefer not to introduce a replacement name.
- octopleuron*, *Dentalium* Verco, 1911a: 206. Recent. St Vincent Gulf, South Australia, 15-22 fms [27-40 m]. Holotype SAM D 13725. *Paradentalium octopleuron* (Verco, 1911) (*vide* Cotton & Godfrey 1933: 139). Pacific Ocean: South Australia. 12-1210 m. Remark: this species was described from a lot of 88 specimens; the 87 paratypes could not be located.
- octostriatum*, *Dentalium antverpiense* “*forma*” Goddeeris, 1978: 70, 72. Miocene. Belgium. *Nomen nudum*. Remark: this is also an unavailable infrasubspecific name (ICZN 1999: articles 45.5 and 45.6.3).
- oerstedii*, *Dentalium* Mörch, 1861: 177. Recent. Gulf of Nicoya, west coast of Costa Rica, 30 fms [55 m]. Syntypes ZMUC (3; *vide* Keen 1966: 18, fig. 21). Junior synonym: *Dentalium numerosum* Dall, 1895 (*vide* Pilsbry & Sharp 1897: 25). *Dentalium oerstedii* Mörch, 1861. Eastern Pacific: California to Ecuador, Galapagos Islands. 4-1480 m.
- okudai*, *Siphonodentalium* Habe, 1953: 299, figs 759, 760. Recent. Akkeshi Bay, Hokkaido, Japan, 20 m. Holotype NSMT 54867; paratypes NSMT 54868, AMNH 148420 (1). *Siphonodentalium okudai* Habe, 1953. Known from the type locality only.
- † *oleacinum*, *Dentalium agile* var. Dall, 1892: 441. Pliocene. Caloosahatchie River and Shell Creek, Florida, USA. Syntypes USNM Paleobiology 112739 (3).
- † *oligocena*, *Gadila* Vergneau-Saubade, 1968: 208, pl. 1, fig. 23. Oligocene, Aquitanian. Gaas, Sarcignan, France.
- olivi*, *Dentalium* Scacchi, 1835: 12, pl. 2, fig. 6. Pleistocene. Gravina, Italy. Holotype UPMN (*vide* R. La Perna pers. comm.). Tentative junior synonym: *Siphonodentalium hyalinum* Brugnone, 1876 (*vide* Pilsbry & Sharp 1898: 171), non *Dentalium hyalinum* Philippi, 1846. *Polyschides olivi* (Scacchi, 1835) (*vide* Steiner & Dreyer 2003: 346, 349). Eastern Atlantic, Mediterranean. 500-2242 m. Remark: Jeffreys (1877: 157, 158) listed this species in the genus *Gadila*.
- onyx*, *Hamulus* Morton, 1834. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *oolithicum*, *Dentalium* Piette, 1856: 598, pl. 15, figs 28, 29. Jurassic. Rumigny, France. Junior synonym: *Dentalium entaloides* Eudes-Deslongchamps, 1842 non Fleming, 1825 (*vide* Pilsbry & Sharp 1898: 225).
- † *opaculum*, *Dentalium* Casey, 1903: 266, 267. Oligocene. Vicksburg, Mississippi, USA.
- opacum*, *Dentalium* Sowerby, 1829: 198, 199. Recent. “From South Sea ships, supposedly from New Zealand” (G. Humphrey’s collection, Pilsbry & Sharp 1897: 70). Type material not located. *Fissidentalium opacum* (Sowerby, 1829) (*vide* Pilsbry & Sharp 1897: 70). New Zealand. Remarks: Finlay (1928: 262) considered this species indeterminate. Dell (1957: 564) treated it as *nomen dubium* due to the absence of the type material and pointed out a possible synonymy with *Fissidentalium zelandicum* (Sowerby, 1860).
- † *opalina*, *Dentalium filicauda* var. Quenstedt, 1856: 328, pl. 44, fig. 16. Jurassic, Liassic. Near Berlin, Germany. Remark: Richardson (1906: 575, 576) tentatively suggested that this name might be a junior synonym of *Dentalium elongatum* Goldfuss, 1841.
- † *operculatus*, *Dentalites* Krueger, 1823: 312 [ex Bohadsch MS]. Near Gosathal, Hallstadt, Germany.
- ophiodon*, *Dentalium* Dall, 1881: 38. Recent. Off Bahia Honda, Cuba, Blake stn 20, 23°02’30”N, 83°11’W, 220 fms [402 m]. Lectotype USNM 95344 (designated by Henderson 1920: 85); paratypes USNM 95345 (1; Blake stn 21), MCZ 7727 (1; Blake stn 19), MCZ 7728 (1; Blake stn 20), MCZ 7729 (1; Blake stn 21; erroneously stated to be the holotype by Turner 1955: 319). *Compressidens ophiodon* (Dall, 1881) (*vide* Pilsbry & Sharp 1897: 126). Western Atlantic, Caribbean. 128-1280 m.
- opiparium*, *Quasidentalium* Shimansky, 1974. Not a scaphopod. See Other taxa described as Scaphopoda.
- opportuna*, *Gadila* Kuroda & Habe *in* Habe, 1961: 105, pl. 47, fig. 2 [*nomen nudum* in Habe 1953: 298]. Recent. Off Zushi City, Sagami Bay, Honshu, Japan, 100-200 m. Holotype in NSMT. *Gadila opportuna* Kuroda & Habe *in* Habe, 1961. Indo-Pacific: Japan. 100-780 m.
- † *ornatum*, *Dentalium* de Koninck, 1843: 318, 319, pl. 22, figs 3a-3c. Carboniferous. Visé, Belgium.
- † *ornatus*, *Cadulus* (*Dischides*) Baluk, 1972: 563, 564, pl. 5, figs 9-13. Miocene, Lower Tortonian (Badenian). Korytnica, 24 km SSW of Kielce, Holy Cross Mountains, Poland. Holotype and paratypes, Baluk collection.
- orsum*, *Dentalium* Bonelli *in* Sismonda, 1842: 25. Tertiary. Piedmont, Italy. Junior synonym of *Dentalium inaequale* Bronn, 1831 (*vide* Sismonda

- 1847: 24; Pilsbry & Sharp 1898: 205), itself a junior synonym of *Dentalium sexangulum* Gmelin, 1791 (*vide* Bernasconi 1996: 26).
- † *orthezense*, *Dentalium* Tournouër, 1873: 466 [40], pl. 6, fig. 12. Eocene. Orthez, Adour Basin, southwestern France.
- † *orthoceras*, *Dentalium* Pilsbry & Sharp, 1898: 225. Carboniferous. Visé, Belgium. Replacement name for *Entalis filosa* de Koninck, 1883, a junior secondary homonym of *Dentalium filosum* Broderip & Sowerby, 1830.
- orthrum*, *Dentalium entalis* var. Watson, 1879: 512, 513. Recent. Type locality not specified. Syntypes BMNH 1887.2.9.18-20 (Setubal, *Challenger* stn II, 470 fms [858 m]; Fayal, Azores, *Challenger* stn 75, 450 fms [821 m]; Prince Edward Island, *Challenger* stn 145, 150 fms [274 m]). Synonym of *Antalis entalis* (Linnaeus, 1758).
- † *ortus*, *Fissidentalium* Palmer, 1974b: 124. Miocene. Locality R, Java, Indonesia. Syntypes RGM 7272 (5) (*vide* Van den Hoek Ostende *et al.* 2002: 112, pl. 3). Replacement name for *Dentalium tenuistriatum* Martin, 1880 *non* Rouault, 1850.
- oryx*, *Dentalium* Boissevain, 1906: 20, pl. 6, fig. 24, text-fig. 14. Recent. Sunda Islands, *Siboga* stn 302, 10°27.9'S, 123°28.7'E, 216 m. Lectotype ZMA 3.06.014 (designated by Scarabino 1995: 205); paralectotypes ZMA 3.06.015 (4). Junior synonym: *Dentalium paucicontortum* Boissevain, 1906 (*vide* Scarabino 1995: 205, by First Reviser action, according to ICZN 1999: article 24). *Dentalium oryx* Boissevain, 1906. Indo-Pacific: Africa to Philippines. 216-965 m.
- osceola*, *Spirodentalium* Walcott, 1890. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *otamaringaensis*, *Dentalium* Marwick, 1926: 326, 327, pl. 74, fig. 15. Miocene. Mouth of Waiiau Stream E to Otamaringa Pa, Waitara Survey District, New Zealand. Holotype NZGS TM4808; paratypes NZGS (7) (*vide* Keyes 1972: 96). *Dentalium otamaringaense* Marwick, 1926 (*vide* Beu & Maxwell 1990: 424).
- † *otatumei*, *Dentalium* Nagao, 1938: 141, 142, pl. 15 [2], figs 11-11b. Cretaceous. Ponporokabetu, near Yubari coal mines, Isikari province, Japan. Holotype Dept. Geol., Hokkaido Univ., No. 8235 (*vide* Hanzawa *et al.* 1961: 209).
- † *ottoi*, *Dentalium* Sharp & Pilsbry *in* Pilsbry & Sharp, 1897: 119; 1898: 211. Oligocene. Joachimsthal and Hermsdorf, Germany. Replacement name for *Dentalium compressum* Meyer, 1883 *non* d'Orbigny, 1850.
- † *ouachitensis*, *Cadulus* (*Cadulus*) Palmer, 1937: 21, pl. 2, figs 18, 19. Eocene, Lower Claiborne Formation. PRI Locality 741, Lapiniere Landing, east bank of Ouachita River, Louisiana and Columbus, Louisiana, USA. Syntypes PRI 2644, PRI 2645.
- ovale*, *Dentalium* "Malm." – Pilsbry & Sharp 1898: 225. *Nomen nudum*? Remarks: we have not found the original description of this species; Pilsbry & Sharp (1898: 225) wrote: "Description not seen by us. Jurassic, Dogger: Germany", and R. Janssen (*in litt.*) stated that the putative senior homonym appears to be a manuscript name that was never described.
- † *ovale*, *Dentalium* Cooke, 1928: 9, pl. 2, fig. 5. Oligocene. Alazan Clay, Rio Buena Vista, west of Alazan, Vera Cruz, Mexico. Type material USNM Paleobiology 352708.
- ovalis*, *Cadulus* (*Dischides*) Boissevain, 1906: 66, text-fig. 31, pl. 6, fig. 52. Recent. Madura Bay and other localities in the southern part of Molo-strait [Indonesia], *Siboga* stn 51, 69-91 m. Syntypes ZMA 3.06.088-089 (2). *Dischides ovalis* (Boissevain, 1906). Indo-Pacific: Africa to Indonesia. 69-101 m.
- † *ovatum*, *Dentalium* Hu, 1992: 659, figs 9, 14-17, 22. Pleistocene. Limestone of Henchun Peninsula, Taiwan. Holotype NMT 1639d; paratypes NMT 1639, 1639a-c. Remark: this species probably belongs to the genus *Compressidentalium*.
- † *ovosectum*, *Dentalium* Sharp & Pilsbry *in* Pilsbry & Sharp, 1898: 226. Upper Cretaceous. Tisa [Tyssa], Bohemia, Czech Republic. Replacement name for *Dentalium glabrum* Geinitz, 1839 *non* Montagu, 1803.
- ovulum*, *Dentalium* Philippi, 1844: 208, 209, pl. 27, fig. 21. Pleistocene near Crotone, Calabria, Italy. Type material not located. *Cadulus ovulum* (Philippi, 1844) (*vide* Philippi 1844, who also established the monotypic genus *Cadulus* for this type species). Eastern Atlantic, Mediterranean. 982-2643 m. Remark: this may be an fossil species, as Di Geronimo & La Perna (1997: 417, 418) claimed that reports of Recent specimens in the Mediterranean and in the Atlantic are based on reworked fossils or misidentified specimens of *Cadulus gibbus* Jeffreys, 1883.
- † *ozawai*, *Siphonodentalium* (*Pulsellum*) Yokoyama, 1926: 289, pl. 34, fig. 11. Pliocene, Sawané Formation. Sado Island, Japan. Holotype GIUT (*vide* Hanzawa *et al.* 1961: 210).
- pachypleurum*, *Dentalium* (*Gadilina*) Boissevain, 1906: 51, text-fig. 26, pl. 5, figs 21, 22. Recent. Locality of syntypes: ZMA 3.06.063 (2; Banda Sea, *Siboga* stn 208, 5°39'S, 122°12'E, 1886 m), ZMA 3.06.064 (1; Arafura Sea, *Siboga* stn 271, 5°46.7'S, 134°0'E, 1788 m). *Gadilina pachypleura* (Boissevain, 1906) (*vide* Scarabino 1995: 285). Indo-Pacific: Indonesia. 1788-1886 m.
- pacifica*, *Costentalina* Chistikov, 1982b: 1311, 1314, pl. 1, figs 3, 4, pl. 2, figs 10, 14. Recent. Aleutian Trench, *Vitjaz* stn 6136 T, 53°25'N, 163°23'W, 4180-4186 m. Holotype IOM; paratypes IOM (1 from stn 5159, 7°36'N, 162°01'W, 4916 m; 3 from stn 6097, 57°00'N, 148°18.5'W, 4740 m; 1 from 6107-1, 57°37.8'N, 143°12'W, 3800 m). *Costentalina pacifica* Chistikov, 1982. Indo-Pacific:

- Micronesia; Tasman Sea; Eastern Pacific: Alaska. 3253-4916 m.
- pacificum*, *Dentalium* Hutton, 1873a: 5, 6. Recent. New Zealand. Holotype NMNZ M263 (*vide* Marshall 1996: 43); paratype ZMB 24023 (*vide* Kilias 1995: 175). Junior synonym of *Fissidentalium zelandicum* (Sowerby, 1860) (*vide* Suter 1913: 819).
- † *pagellai*, *Dentalium* Negri, 1934: 172, 173, pl. 14, figs 15-17. Paleogene. Gef Gef el-Abiad (Zella-Marada) and Haifat (Zella-Marada), Libya.
- pallida*, *Pseudantalis rubescens* var. Monterosato, 1884: 33. *Nomen nudum* without type locality.
- † *palmerae*, *Cadulus* (*Gadila*) Hodgkinson, 1974: 17, text-fig. 8t, u; pl. 1, figs 15, 16, pl. 2, fig. 8. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Stone City Bluff, Brazos River Valley, Bureson County, Texas, USA. Holotype USNM Paleobiology 180439; paratypes USNM Paleobiology 180440, 180449, PRI 29225, ANSP 31503.
- † *palmerae*, *Dentalium* (*Antalis*) Garvie, 1996: 46, pl. 9, fig. 2. Eocene, Lower Claibornian, Reklaw Formation, Marquez Member. Locality 4, Bluff on Ridge Creek, Texas, USA. Holotype PRI 30313.
- panamense*, *Dentalium megathyris* var. Dall, 1908: 358. Recent. Gulf of Panama. Syntypes LACM 1836 (Isla Malpelo, Colombia, 3241 m), USNM 122975 (16; *Albatross* stn 3381, 4°56'N, 80°52'30"W, 1772 fms [3234 m]), USNM 122977 (7) and 594263 (1) (*Albatross* stn 3361, 6°10'N, 83°06'W, 1471 fms [2685 m]), USNM 122982 (1; *Albatross* stn 3360, 6°17'N, 82°05'W, 1672 fms [3051 m]), SBMNH 35019 (1; *Albatross* stn 3361, 6°10'N, 83°06'W, 1471 fms [2685 m]). Synonym of *Fissidentalium megathyris* (Dall, 1889).
- panamensis*, *Cadulus* (*Gadila*) Sharp & Pilsbry in Pilsbry & Sharp, 1898: 191, 192, pl. 36, figs 23-25. Recent. Panama Bay, 51 fms [93 m]. Holotype (of *Dentalium corrugatum*) BMNH 1857.6.4.881 (*vide* Keen 1968: 403, text-fig. 24). Replacement name for *Dentalium corrugatum* Carpenter, 1857 non *corrugatum* Hupé in Gay, 1854; junior synonym of *Gadila perpusilla* (Sowerby in Broderip & Sowerby, 1832) (*vide* Emerson 1971: 78). Remark: Emerson (1971: 78) erroneously selected a "lectotype" for *Cadulus panamensis* Pilsbry & Sharp, 1898; this action is incorrect under ICZN (1999) article 72.7, since *panamensis* was a replacement name for *corrugatum* and thus both taxa have the same type material. For that reason, the "paralectotypes" of *panamensis* (e.g., Scott *et al.* 1990: 18; Boyko & Sage 1996: 30, 31) have no nomenclatural status.
- pandionis*, *Cadulus* Verrill & Smith in Verrill, 1880: 392. Recent. Off Martha's Vineyard [Massachusetts], USBF stn 876, 120 fms [219 m]. Lectotype USNM 38644 (designated by Johnson 1989: 56 as holotype); paralectotypes MCZ 186811 (3; USFC stn 877, 126 fms [230 m]), MCZ 186812 (1; USFC 873, 100 fms [183 m]), MCZ 186813 (2; USFC 871, 115 fms [210 m]), MCZ 186814 (USFC stn 870, 155 fms [283 m]). *Gadila pandionis* (Verrill & Smith in Verrill, 1880) (*vide* Pilsbry & Sharp 1898: 171). Western Atlantic: New Jersey to Florida (USA). 46-704 m. Remark: Emerson in Turgeon (1998: 55) placed this species in the genus *Polyschides*.
- panormitanum*, *Dentalium* "Chenu" – Jeffreys 1883: 657. Unjustified emendation of *Dentalium panormum* Chenu. *Antalis panorma* (Chenu, 1843) (*vide* Pilsbry & Sharp 1897: 54).
- panormum*, *Dentalium* Chenu, 1843: pl. 6, fig. 13; 1852: 6. Recent. "Fossil", Sicily [Italy]. Type material not located. Junior synonyms: *Dentalium pseudoentalis* O. G. Costa, 1851; *Dentalium arguticosta* Brugnone, 1878 (*vide* Pilsbry & Sharp 1897: 54, Bellini 1909: 226). *Antalis panorma* (Chenu, 1843) (*vide* Pilsbry & Sharp 1897: 54). Eastern Atlantic, Mediterranean: Europe and North Africa. 54-350 m.
- † *parallellum*, *Dentalium* Zinndorf, 1928: 38, pl. 1, fig. 8 [ex Boettger MS]. Oligocene (Rupelton). Offenbach, Germany. *Rhabdus parallelus* (Zinndorf, 1928) (*vide* Janssen 1978b: 140, 141).
- † *parannulatum*, *Dentalium* n. nom. Eocene. Claiborne, Alabama, USA. Syntype USNM Paleobiology 638812. Replacement name for *Dentalium annulatum* Meyer, 1886 non *Dentalium annulatum* Gmelin, 1791.
- † *pardelensis*, *Dentalium* Brunet, 1995: 49, pl. 5, fig. 2. Upper Miocene, Entrerriense Formation. Punta Pardela, Valdés Peninsula, Chubut Province, Argentina. Holotype MPEF-PI-075.
- † *pareorensis*, *Dentalium* Pilsbry & Sharp, 1898: 211. Miocene, Pareora Formation. Kanieri; Chatham Islands; Motanau, New Zealand. Replacement name for *Dentalium laevis* Hutton, 1873 non Schlotheim, 1820. Lectotype NZGS TM4812 (designated by Keyes 1972: 97). *Antalis pareorensis* (Pilsbry & Sharp, 1898) (*vide* Beu & Maxwell 1990: 424).
- parfaiti*, *Dentalium caudani* var. Locard, 1898: 104 [ex Fischer MS]. Recent. Type locality not specified [North Atlantic]. Syntype MNHN. Synonym of *Dentalium caudani*, a junior synonym of *Fissidentalium candidum* (Jeffreys, 1877).
- † *parianus*, *Cadulus* Guppy in Guppy & Dall, 1896: 325, pl. 30, fig. 7. Oligocene. Pointapiet, Trinidad. Syntypes USNM Paleobiology 107155 (12). Remark: Schuchert *et al.* (1905: 112) cited USNM 107155 as the "holotype" but did not specify which syntype was to be the holotype, so this does not constitute a valid lectotype designation.
- † *parisiensis*, *Dentalium* d'Orbigny, 1850 (volume 2): 372. Eocene. Chaumont, Parnes, Mouchy-le-Châtel, Senlis (Oise), France. Replacement name for *Dentalium semistriatum* Deshayes, 1825 non

- Turton, 1819. *Dentalium parisiense* d'Orbigny, 1850 (*vide* Deshayes 1864: 210, pl. 2, figs 17-19; Pilsbry & Sharp 1898: 211). Remark: a valid species of *Dentalium* (*Entaliopsis*) (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- parisiensis*, *Gadus* Deshayes, 1861: 218, 219, pl. 3, figs 18-20. Eocene. Paris Basin (numerous localities), France. Junior synonym of *Polyschides denticulatum* (Deshayes, 1850) (*vide* Pilsbry & Sharp 1898: 238). Remark: Pilsbry & Sharp (1898: 238) erroneously listed *Dentalium denticulatum* Deshayes, "1864" as a junior synonym of this species; in fact, *D. denticulatum* was described in 1850, not 1864, and the synonymy is herein reversed. Used as a valid species of *Siphonodentalium* by Le Renard (1995: 175) and Le Renard & Pacaud (1995: 86), who were unaware that it was a junior synonym.
- † *parkinsoni*, *Dentalium* Quenstedt, 1852: 443, pl. 35, fig. 18; 1867: 531. Jurassic. Germany. Remarks: Brauns (1865: 137; 1869: 191) stated that this species was a junior synonym of *Dentalium entaloides* Eudes-Deslongchamps, 1842 (= *Dentalium oolithicum* Piette, 1856). However, that species name is a junior homonym of *Dentalium entaloides* Fleming, 1825. Pilsbry & Sharp (1898: 226) instead treated Quenstedt's species as valid.
- † *parvula*, *Fustiaria* Stoliczka, 1868: 445, pl. 27, fig. 22. Cretaceous, Valudayur group. Pondicherry, India.
- † *parvulina*, *Cadulus tumidosus* var. Sacco, 1897: 116, pl. 10, figs 74-76 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. San Agata, Piedmont, Italy. Syntypes MIGT BS.106.10.010-BS.106.10.012 (*vide* Ferrero Mortara *et al.* 1984: 310, pl. 55, figs 13, 14). *Cadulus* (*Cadulus*) *parvulinus* Sacco, 1897 (*vide* Moroni & Ruggeri 1980: 47, figs 1, 2). Remark: Moroni & Ruggeri (1980: 47, by First Reviser action) listed *Cadulus tumidosus* var. *perinflata* Sacco, 1897 as a junior synonym of this species.
- † *parvulum*, *Dentalium* Philippi, 1887a: 107, 108, pl. 12, fig. 16; 1887b: 102, pl. 12, fig. 16. Tertiary. Navidad and Lebu, Chile. Objective junior synonym: *Dentalium philippianum* Pilsbry & Sharp, 1898. Remark: Pilsbry & Sharp (1898: 212) considered this species as congeneric with *Fustiaria parvula* Stoliczka, 1868 and, therefore, introduced the replacement name. Although the two species belong to *Dentalium* and *Fustiaria* respectively, Philippi's name cannot be restored according to ICZN (1999).
- parvulum*, *Dentalium* Richardson, 1906: 585-587, pl. 45, figs 9, 12 [ex J. Buckman MS]. Jurassic, Pliensbachian. Leckhampton Station clay-pit, Cheltenham, England, United Kingdom. Junior homonym of *Dentalium parvulum* Philippi, 1887. Replacement name: *Dentalium subparvulum* Emerson, 1954.
- † *parvum*, *Dentalium* Mayer, 1864: 358, 359, pl. 14, fig. 6. Miocene. Menou, near Léognan, France.
- parvum*, *Cadulus* (*Platyschides*) Henderson, 1920: 113, 114, pl. 18, figs 2, 4. Recent. Off Barbados, Blake, 100 fms [183 m]. Holotype USNM 314713; paratype MCZ 48414 (1). *Cadulus parvum* Henderson, 1920. Western Atlantic: Caribbean, Brazil. 60-219 m. Remarks: Henderson (1920: 113, 114) recognized that the original description of *Cadulus amiantus* Dall, 1889 encompassed two species; therefore, he described *parvum* for those specimens of "amiantus" that were not conspecific with *amiantus* s.s. Emerson in Turgeon (1998: 55) placed this species in the genus *Polyschides*, although the position of the maximum diameter in the middle of the shell suggests it to belong to *Cadulus*.
- passerinianum*, see *passerinianum*.
- † *passerinianum*, *Dentalium* Cocconi, 1874: 646, 647, pl. 6, figs 18, 19. Miocene. San Agata, Italy. Remarks: *Dentalium striatissimum* Doderlein, 1862 (*nomen nudum*) listed in synonymy. *Dentalium passerinianum* [Sacco, 1897: 96] is an incorrect subsequent spelling.
- † *patagonicum*, *Dischides* Brunet, 1995: 55, pl. 5, fig. 12. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-082.
- † *patriciae*, *Laevidentalium* Engeser & Riedel, 1992: 41. Middle Devonian. Grube Rothe Erde, near Giessen, Germany. Replacement name for *Dentalium robustum* Maurer, 1885 *non* Brazier, 1877.
- † *patulum*, *Dentalium* Potiez & Michaud, 1838: 545. Cretaceous, Green Sand. Varenne, Meuse, north-eastern France.
- pauciccontortum*, *Dentalium* Boissevain, 1906: 28, 29, pl. 6, figs 25-28. Recent. Sulu Archipelago [Philippines], *Siboga* stn 95, 05°43.5'N, 119°40'E, 522 m. Lectotype ZMA 3.06.022 (designated by Scarabino 1995: 205); paralectotypes ZMA 3.06.023 (34; *vide* R. Moolenbeek & A. N. Van der Bijl, *in litt.* 23.VI.2000), ZMA 3.06.024 (1; stn 105, 6°08'N, 121°19'E, 275 m). Junior synonym of *Dentalium oryx* Boissevain, 1906 (*vide* Scarabino 1995: 205, by First Reviser action, according to ICZN 1999: article 24).
- † *paucicostata*, *Dentalium* (*Entalis*) *badensis* var. Sacco, 1897: 108, pl. 9, figs 24-28 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.03.013 (*vide* Ferrero Mortara *et al.* 1984: 307).
- paucicostatum*, *Dentalium capillosum* var. Watson, 1879: 509. Recent. Setubal [Portugal], *Challenger* stn II, 38°10'N, 9°14'W, 470 fms [858 m]. Holotype BMNH 1887.2.9.1. Junior synonym: *Dentalium exuberans* Locard, 1897 (B. Métivier, n. syn.). *Fissidentalium paucicostatum* (Watson, 1879) (*vide* Pilsbry & Sharp 1897: 78). Eastern Atlantic: Europe to northern Africa. 403-3650 m.
- † *paucicostulata*, *Dentalium* (*Antale* "?") *dentale* var. Sacco, 1897: 105, pl. 8, fig. 78 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Italy (various localities).

- Syntype MIGT BS.106.02.069 (*fide* Ferrero Mortara *et al.* 1984: 306).
- † *paucistriata*, *Pulsellum* (*Entalina*) *tetragona* var. Sacco, 1897: 114, pl. 10, figs 54, 55 [as a *nomen nudum* in Sacco 1896: 97]. Miocene/Pliocene. Italy (various localities). Syntypes MIGT BS.106.08.008, BS.106.08.009 (*fide* Ferrero Mortara *et al.* 1984: 310).
- † *paulini*, *Dentalium* Maury, 1925: 403, 404, pl. 24, fig. 1. Cretaceous. Estacao Agronomica (Camada No. 7), Pará, Brasil.
- † *pauperculum*, *Dentalium* Meek & Hayden, 1860: 178. Cretaceous. Lance Formation, Fox Hills Sandstone, Moreau River, South Dakota, USA. Holotype USNM Paleobiology 311 (figured by Stanton 1920: 34, pl. 6, fig. 6).
- peitaihoensis*, *Dentalium* King & Ping, 1935: 103-105, text-figs 1, 2. Recent. Peitaiho, beach [Beidaihe], China. Type material and type depository not specified. *Dentalium?* *peitaihoensis* King & Ping, 1935. Indo-Pacific: China. Known from the type locality only. Remarks: generic placement uncertain. Figures 1a and 1b resemble fragments or juveniles of *Omniglypta cerina* (Pilsbry, 1905) or *Episiphon subtorquatum* (Fischer, 1871); figure 1c depicts a *Caecum* shell. Moreover, the presence of a thick orange to brownish periostracum suggests that some of the types do not belong to the Scaphopoda. The authors erroneously classified their new species in the "Order Scutibranchiata" which is actually an ordinal-level name in the Gastropoda.
- pelamidae*, *Polyschides* Chistikov, 1979a: 113, 114, fig. 7. Recent. Tonkin, Vietnam, Pelamide stn 46, 56 m. Holotype ZIN. *Polyschides pelamidae* Chistikov, 1979. Indo-Pacific: Indonesia to China. 31-150 m. *Polyschides pelamide* [Scarabino 1995: 338] is an incorrect subsequent spelling.
- pelamidi*, see *pelamidae*.
- † *pellati*, *Dentalium* Loriol in Loriol & Pellat, 1874: 405, pl. 10, figs 36, 37. Upper Jurassic, Portlandian. Ningle, Alpreck, Boulogne-sur-Mer, northern France. Remark: *Laevidentalium pellati* (Loriol in Loriol & Pellat, 1874), *fide* Gerasimov (1969: 52).
- pelliceri*, *Dentalium* (*Episiphon*) *sowerbyi* Henderson, 1920: 80, 81, pl. 13, figs 7-9. Recent. Bahia Honda, Cuba, Tomas Barrera stn 208, 1-12 fms [2-22 m]. Holotype USNM 314565; paratypes USNM 314566-314573, ANSP 119157, AMNH 148322 (35; stn 203, Cabanas Harbor, Cuba, 3-12 fms [5-22 m]), AMNH 148323 (6). Synonym of *Episiphon sowerbyi* (Guilding, 1834).
- † *pellucens*, *Dentalium* Deshayes, 1861: 214, 215, pl. 1, figs 21-23. Eocene. Paris Basin (Damery, Montmirel, Parnes and Grignon), France. *Fustiaria pellucens* (Deshayes, 1861) (*fide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- pellucidum*, *Dentalium* Gmelin, 1791. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *pentagonale*, *Dentalium* Pilsbry & Sharp, 1898: 226. Triassic. Bavaria, Germany. Replacement name for *Dentalium quinquangulare* Gumbel, 1861 *non* Forbes, 1844.
- pentagonum*, *Siphonodentalium* M. Sars, 1865a: 307-312, pl. 7, figs 45-51. Recent. Drøbak, near Oslo; Langesund and Flekkefjord, 50-120 fms [91-219 m]; Lofoten Islands, 50-300 fms [91-548 m] [Norway]. Type material not located. Junior synonym of *Entalina tetragona* (Brocchi, 1814) (*fide* M. Sars 1870: 195, as *S. quinquangulare*). Remark: in his description, Sars referred to the specimen misidentified as *Dentalium abyssorum* juv. (M. Sars 1865b: 43, figs 107-109).
- † *peracuta*, *Dentalium sexangulum* var. Sacco, 1897: 94, pl. 7, fig. 63 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Carrú, Italy. Syntype MIGT BS.106.01.013 (*fide* Ferrero Mortara *et al.* 1984: 301).
- † *peranulatus*, *Cadulus* Guppy, 1912: 4. Tertiary. Corosal, Trinidad.
- † *perarmatum*, *Dentalium* Ryckholt, 1851: 67, pl. 2, figs 39, 40. Carboniferous. Visé, Belgium. Pilsbry & Sharp (1898: 232) questioned the placement of this species in the Scaphopoda, because the posterior spines are unknown in this class.
- perceptum*, *Dentalium* Mabilie & Rochebrune in Rochebrune & Mabilie, 1889: 99-100. Recent. Type locality not specified. Syntypes MNHN (2; labelled "Beagle Channel" [Patagonia]). *Rhabdus perceptus* (Mabilie & Rochebrune in Rochebrune & Mabilie, 1889) (*fide* Pilsbry & Sharp 1897: 115). Western Atlantic: Argentina; Eastern Pacific: Chile. 278-933 m.
- † *perfragile*, *Dentalium* (*Pulsellum*) Koenen, 1892: 986, 987, pl. 59, figs 17, 18. Lower Oligocene. Lattorf, Westeregeln and Helmstadt, Germany.
- † *perigonicum*, *Dentalium* Doderlein, 1864: 97 [15]. Miocene. Monte Gibio, Modena, Italy.
- perinflata*, *Cadulus tumidosus* var. Sacco, 1897: 116, pl. 10, fig. 77 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. San Agata, Piedmont, Italy. Syntype MIGT BS.106.10.013 (*fide* Ferrero Mortara *et al.* 1984: 310). Junior synonym of *Cadulus* (*Cadulus*) *parvulinus* Sacco, 1897 (*fide* Moroni & Ruggeri 1980: 47, figs 1, 2, as First Reviser action).
- † *perinii*, *Dentalium* Malaroda, 1951: 190, 191, pl. 5, fig. 23, pl. 7, fig. 19. Eocene. Monteccio, Costozza, Colli Berici, near Vicenza, Italy. Holotype Museo dell'Istituto Geologia dell'Università di Padova.
- perinvolutum*, *Dentalium* (*Fissidentalium*) Ludbrook, 1954: 101, 102, fig. 7. Recent. Gulf of Aden, John Murray Exp. stn 185, 13°48'N, 49°16'E, 2000 m. Holotype BMNH 1952.3.25.65. *Antalis perinvoluta* (Ludbrook, 1954) (*fide* Scarabino 1995: 233). Indo-Pacific: Red Sea to Indonesia and Australia. 918-2000 m.
- † *perlaevis*, *Dentalium* (*Antale*) *bouei* var. Sacco, 1897: 99, pl. 8, fig. 18 [as a *nomen nudum* in Sacco 1896:

- 97]. Miocene. Turin hills, Italy. Lectotype MIGT BS.106.02.012 (designated by Bonci *et al.* 2000: 228, 229); paralectotypes MIGT BS.106.02.005-BS.106.02.007, MIGT BS.106.02.007/01 (34), MIGT BS.106.02.007/02 (36), MIGT BS.106.02.014/01 (14), MIGT BS.106.02.012/01 (25) (*vide* Bonci *et al.* 2000: 228).
- perlongum*, *Dentalium* Dall, 1881: 36. Recent. North of Yucatan Bank, Blake stn 33, 24°01'N, 88°58'W, 1568 fms [2868 m]. Lectotype MCZ 7752 (designated by Turner 1955: 319 as "holotype"); paralectotypes MCZ 7660 (1), MCZ 7661 (1; Blake stn 41), MCZ 7663 (1; Blake stn 46), MCZ 7664 (3; Yucatan Strait, 640 fms [1168 m]). *Graptacme perlonga* (Dall, 1881) (*vide* Scarabino 1994: 307). Western Atlantic, Caribbean: Cape Hatteras (USA) to Brazil. 200-4850 m. Remark: Henderson (1920: caption to pl. 9, fig. 1) stated "selected type, 99 mm", however, none of the then-syntype specimens is over 80 mm in length, hence Henderson's statement does not constitute a valid lectotype selection.
- † *perplexa*, *Gadila* Boettger, 1907: 211, 212. Miocene. Valea Semini and Valea Casilor, Kostej, Banat, Romania. Lectotype SMF XIII.5a (designated by Zilch 1934: 278, pl. 22, fig. 23).
- perpusillum*, *Dentalium* Sowerby *in* Broderip & Sowerby, 1832: 29. Recent. Puerto Solongo, Colombia [Eastern Pacific]. Lectotype BMNH 1950.10.10.1-5 (best preserved specimen, length = 7.2 mm, of 5 shells glued to a wooden block) (designated by Emerson 1971) and 4 paralectotypes. Junior synonyms: *Dentalium corrugatum* Carpenter, 1857 (*vide* Pilsbry & Sharp 1898: 192); *Cadulus (Gadila) panamensis* Sharp & Pilsbry *in* Pilsbry & Sharp, 1898 (*vide* Emerson 1971: 78). *Gadila perpusilla* (Sowerby *in* Broderip & Sowerby, 1832) (*vide* Pilsbry & Sharp 1898: 190). Eastern Pacific: Baja California to Panama, Galapagos Islands, ?Ecuador. 18-120 m.
- † *perrilliatae*, *Tesseracme* n. nom. Middle Miocene. Stns 9995 and 23737, Santa Rosa, Veracruz, Mexico. Holotype USNM Paleobiology 350085; paratypes UNAM 2520. Replacement name for *Dentalium (Tesseracme) mexicanum* Perrilliat, 1975 non *Dentalium mexicanum* Girty, 1909.
- † *perseveratum*, *Dentalium* Brunet, 1995: 49, 50, pl. 5, fig. 4. Upper Miocene, Entrierriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-077.
- † *perstriolata*, *Dentalium (Antale) vulgare* var. Sacco, 1897: 98, pl. 8, figs 1-5 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Bordighera, Astigiana and Vezza d'Alba, Italy. Syntypes MIGT BS.106.02.001, BS.106.02.002 (*vide* Ferrero Mortara *et al.* 1984: 303).
- pertracheatum*, *Dentalium (Plagioglypta)* Plate, 1908a: 357, 358, pl. 30, figs 45, 46. Recent. Nias North Channel (15 sm [= nautical miles] South of Bangkam), *Valdivia* stn 203, 1°47.1'N, 96°58.7'E, 660 m. Lectotype ZMB 61099a (designated by Kiliyas 1995: 175); paralectotypes ZMB 61099b (1), ZMB 63839 (1; between Cocos Island and Sumatra, *Valdivia* stn 185, 3°41.3'S, 100°59.5'E, 614 m). *Plagioglypta pertracheata* (Plate, 1908) (*vide* Scarabino 1995: 236). Indo-Pacific: Madagascar to New Caledonia. 460-1740 m.
- peruvianum*, *Dentalium* Dall, 1908: 358. Recent. Off Peru, *Albatross* stn 4656, 6°55'S, 83°34'W, 2222 fms [4055 m]. Holotype USNM 110667; paratype USNM 110666 (*Albatross* stn 4649, *vide* Kabat 1996: 17). *Fissidentalium peruvianum* (Dall, 1908) n. comb. (V. Scarabino *in litt.* 6.III.2000). Eastern Pacific: Peru. 40-4085 m.
- peruvianus*, *Cadulus (Gadila)* Dall, 1908: 361. Recent. Off Point Aguja, Peru, *Albatross* stn 4654, 1036 fms [1885 m]. Lectotype USNM 110671 (designated by Keen 1971: 965 as "holotype" in caption to figure 21); paralectotypes USNM 122806 (*Albatross* stn 2807, *vide* Kabat 1996: 17), USNM 602250; MCZ 27972. *Gadila peruviana* (Dall, 1908). Eastern Pacific: Peru. 1484-1894 m.
- † *petricola*, *Dentalium* Dall, 1909: 136. Miocene. Astoria and Coos Bay, Oregon; Clallam Bay, Washington, USA. Holotype USNM Paleobiology 3481. *Rhabdus petricola* (Dall, 1909) (*vide* Emerson 1958: 93). Remark: because Dall considered *Dentalium substriatum* (Conrad, 1849) to encompass two species, he proposed this name for the smooth form, and *Dentalium conradi* Dall [= *Dentalium pseudonyma* Pilsbry & Sharp, 1898] for the striated form; see Emerson (1958) and Moore (1963: 50, 51) for further discussion.
- † *peyreirensis*, *Dentalium (Antale)* Cossmann & Peyrot, 1917: 166, 167, pl. 1, figs 32, 33. Neogene, Helvetian and Tortonian. Peyrère, Saint-Étienne-d'Orthe and Saint-Jean-de-Marsacq, France.
- phaneum*, *Dentalium* Dall, 1895: 686, pl. 26, fig. 1. Recent. Hawaii, *Albatross* stn 3476, 21°09'N, 157°53'E, 298 fms [545 m]; *Albatross* stn 3475, 21°08'N, 157°43'E, 351 fms [641 m]. Syntypes USNM 107025 (3; stn 3476), USNM 107026 (11; stn 3475). *Antalis phanea* (Dall, 1895) (*vide* Scarabino 1995: 233). Indo-Pacific: New Caledonia to French Polynesia and Hawaii. 545-860 m. Remark: V. Scarabino (*in litt.* 5.XI.2001) stated that the type material comprises two species, the second potentially new.
- † *phenax*, *Cadulus* Pilsbry & Sharp, 1898a: 472, 473, pl. 11, figs 23, 24. Oligocene. Dominican Republic. Type material ANSP 2883 (*vide* Pilsbry 1922: 400).
- philcolmani*, *Tesseracme* Lamprell & Healy, 1998: 77, figs 76B, 77C, D, 79, 81A-D. Recent. 13 km NE of Redcliff Point, Bernier Island, Australia, 24°54'S, 113°17.75'E, 22.5 m. Holotype WAM 233/94; paratypes WAM 118-93 (3), AMS C173310 (1; 18.5 km NNE of Port Hedland, Western Australia, 19°30.31'S, 118°52.49'E, 40 m), AMS C174539

- (1; 50 miles NNE of Port Hedland, Western Australia, 19°29.2-5'S, 118°52.5-3'E, 40-41 m), AMS C174543 (1; N of Port Hedland, Western Australia, 19°29.9-4'S, 118°52.0-3'E, 37 m), AMS C174548 (2; N of Port Hedland, Western Australia, 19°30.5-31.0'S, 118°49.5'E, 39-41 m), AMS C174547 (1; N of Port Hedland, Western Australia, 19°30.5-31.0'S, 118°49.5'E, 39-41 m), AMS C174645 (2; N of Port Hedland, 19°29.6-9'S, 118°51.7-0'E, 40-41 m). *Tesseracme philcolmani* Lamprell & Healy, 1998. Indo-Pacific: Western Australia. 40-124 m.
- † *philippi*, *Dentalium* Chenu, 1843: pl. 6, fig. 17; 1850: 6. Miocene or Pliocene. Italy.
- philippi*, *Dentalium* Monterosato, 1872: 27. Tertiary. Sicily, Italy. Junior homonym of *Dentalium philippi* Chenu, 1843. Replacement name: *Dentalium rectum* var. *monterosatoi* Pilsbry & Sharp, 1898. Remark: this species was misidentified as *Dentalium striatum* Lamarck, 1818 by Philippi (1844).
- philippii*, *Dentalium* Cossmann, 1907c: 202. Tertiary. Navidad, Chile. Unnecessary replacement name for *Dentalium gracile* Philippi, 1887 non Moore, 1866 non Hall & Meek, 1855. Junior objective synonym of *Dentalium navidadense* Pilsbry & Sharp, 1898. Junior homonym of *Dentalium philippi* Chenu, 1843 and Monterosato, 1872.
- philippianum*, *Dentalium* Pilsbry & Sharp, 1898: 212. Tertiary. Navidad and Lebu, Chile. Objective junior synonym of *Dentalium parvulum* Philippi, 1887. Remark: Pilsbry & Sharp (1898: 212) considered *Dentalium parvulum* Philippi, 1887 as congeneric with *Fustiaria parvula* Stoliczka, 1868 and, therefore, introduced *D. philippianum* as a replacement name. Although the two species belong to *Dentalium* and *Fustiaria* respectively, Philippi's name cannot be restored according to ICZN (1999).
- philippinarum*, *Dentalium* Sowerby, 1860: 98, 99, pl. 225, fig. 54. Recent. Island of Samar, Philippines. Type material not located. Junior synonym of *Laevidentalium eburneum* (Linnaeus, 1767) (fide Scarabino 1995: 291).
- † *phoenicea*, *Cadulus* Gardner, 1933: 199, 200, pl. 20, fig. 2. Eocene, Midway Group, Kincaid Formation, USGS Station 5282, clay from bluff at Webberville, Travis County, Texas, USA. Holotype USNM Paleobiology 370996.
- pichoni*, *Episiphon* Lamprell & Healy, 1998: 134, figs 135E, 136G, 140. Recent. Off Cairns, northern Queensland, Australia, 17°22'S, 146°48'E, 303 m. Holotype QM MO40064; paratypes QM MO40068 (44), QM MO40065 (32), QM MO40066 (180), AMS C172490 (1; SE of Swains Reefs, Queensland, 22°26.27-20.2'S, 153°17.13-17.6'E, 187 m), AMS C172479 (1; c. 160 km N of Croker Island, Northern Territory, 9°30'S, 132°34'E). *Episiphon pichoni* Lamprell & Healy, 1998. Indo-Pacific: northern and eastern Australia. 18-351 m. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *E. pichoni* Lamprell & Healy, 1998 vis-à-vis *Gadilina insolita* (E.A. Smith, 1894) requires further research.
- picteti*, *Dentalium* (*Dentalium*) Pilsbry & Sharp, 1897: 22, 23, pl. 11, fig. 87 [ex Deshayes MS]. Recent. West Indies "?". Syntype MHNG 1155/15. Junior synonym of *Paradentalium americanum* (Chenu, 1843) (fide Henderson 1920: 28; fide Scarabino 1975: 183).
- † *pictile*, *Dentalium* (*Laevidentalium*) Tate, 1899: 263, pl. 8, fig. 8. Oligocene. Table Cape, Tasmania, Australia. Holotype and paratype SAM T 1608. *Laevidentalium pictile* Tate, 1899 (fide Ludbrook 1959: 146, pl. 2, fig. 4).
- † *pilsbryi*, *Cadulus* (*Platyschides*) Woodring, 1925: 209, 210, pl. 28, fig. 10. Miocene. Bowden, Jamaica. Holotype USNM Paleobiology 352726.
- pilsbryi*, *Dentalium* (*Antalis*) Rehder, 1942: 69. Recent. Brazil. Holotype (of *pseudohexagonum* Henderson) USNM 225817. Replacement name for *Dentalium pseudohexagonum* Henderson, 1920 non Arnold, 1903. *Antalis pilsbryi* (Rehder, 1942). Western Atlantic, Caribbean: Florida to Brazil. 0-15 m.
- pistis*, *Dentalium* (*Graptacme*) Winckworth, 1940: 43, fig. 6. Recent. Madras [Chennai, southern India]. Holotype BMNH 1940.7.22.7; paratypes(?) MAM. *Paradentalium pistis* (Winckworth, 1940) (fide Scarabino 1995: 222). Indian Ocean: India. No bathymetric information available.
- † *planatum*, *Dentalium* Bronn, 1831: 84. Miocene. Castell'Arquato, between Parma and Piacenza, Italy.
- † *planicostata*, *Dentalium* (*Entalis*) badensis var. Sacco, 1897: 108, pl. 9, figs 29, 30 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.03.014 (fide Ferrero Mortara *et al.* 1984: 307).
- † *planicostatium*, *Dentalium* Hébert, 1855: 374, pl. 29, fig. 11. Cretaceous. Meudon, France.
- planum*, *Dentalium* J. Sowerby, 1814. Not a scaphopod. See Other taxa described as Scaphopoda.
- platamodes*, *Siphodentalium* Watson, 1879: 519, 520 [Watson 1886: 13, pl. 2, fig. 4]. Recent. West Indies: Culebra Island, *Challenger* stn 24, 18°38'30"N, 65°05'30"W, 390 fms [712 m]. Syntypes BMNH 1887.2.9.61-62 (3). Junior synonym: *Entalina quadrata* Henderson, 1920 (fide Emerson 1952a: 7, 8; Scarabino 1975: 181). *Entalina platamodes* (Watson, 1879) (fide Pilsbry & Sharp 1897: 133). Western Atlantic, Caribbean: Florida to Brazil. 200-1400 m.
- platei*, *Cadulus* (*Gadila*) Jaeckel, 1932: 311, fig. 9. Recent. Cape Agulhas, South Africa, *Valdivia* stn 109, 35°19'S, 20°12'E, 126 m. Holotype ZMB 75376. *Cadulus platei* Jaeckel, 1932. Known from the type locality only.
- platei*, *Dentalium* (*Dentalium*) Jaeckel, 1932: 303, 304, text-figs 1, 2. Recent. Southwest Africa,

- Valdivia* stn 104, 35°16'S, 22°26,7'E, 155 m. Holotype ZMB 75386; paratypes ZMB 78431, ZMB 75387 (1; South Africa, *Valdivia* stn 84, 16°26.5'S, 11°41.5'E, no depth given; *fide* Kiliás 1995: 176). Junior synonym of *Fissidentalium exasperatum* (Sowerby, 1903) (*fide* Barnard 1963a: 347).
- platensis*, *Cadulus* (*Cadulus*) Henderson, 1920: 147, 148, pl. 20, fig. 1. Recent. Off Rio de la Plata, USBF stn 2764, 36°42'S, 56°23'W, 11.5 fms [21 m; an obvious error as the coordinates indicate a depth of around 2000 m; V. Scarabino pers. comm.]. Holotype USNM 887476; paratypes USNM 95447, USNM 108172, USNM 108279, USNM 330845, AMNH 148340 (1; off Fernandina, Florida, USBF 2668, 294 fms [537 m]; *fide* Boyko & Sage 1996: 31). *Cadulus platensis* Henderson, 1920. Western Atlantic: Georgia (USA) to Brazil. 538-1857 m.
- platyceras*, *Dentalium* (*Compressidens*) Sharp & Pilsbry in Pilsbry & Sharp, 1897: 126, 127, pl. 22, figs 58-60. Recent. Port Stephens, Salamander Bay, New South Wales, Australia, 7-15 m [type locality pursuant to ICZN 1999: article 76.2]. Lectotype ANSP 35565 (designated by Lamprell & Healy, 1998: 147); paralectotypes ANSP 35565 (17), AMS C55085 (7; Salamander Bay, Port Stephens, New South Wales, 24 m), AMS C11721 (7; Salamander Bay, Port Stephens, New South Wales, 15-20 m). *Compressidens platyceras* (Sharp & Pilsbry in Pilsbry & Sharp, 1897) (*fide* Scarabino 1995: 370). Pacific Ocean: southeastern Australia. 7-2900 m.
- platypleurum*, *Dentalium* (*Fissidentalium*) Tomlin, 1931: 339, 340. Recent. Off Itongazi River, Natal [South Africa], 25 fms [46 m]. Holotype SAFM A3631. *Fissidentalium platypleurum* (Tomlin, 1931). Known from the type locality only.
- platystoma*, *Cadulus* (*Gadila*) Pilsbry & Sharp, 1898: 180, pl. 35, figs 17, 18. Recent. Off Manta, Ecuador, USFC stn 2792, 0°37'S, 81°00'W, 401 fms [733 m]. Holotype USNM 107699. *Gadila platystoma* (Pilsbry & Sharp, 1898). Known from the type locality only.
- † *playagrandsis*, *Cadulus* (*Gadila*) Weisbord, 1964: 131, 132, pl. 18, figs 17, 18. Pliocene, Playa Grande Formation. Stn W-24, Quebrada Las Pailas, Venezuela. Holotype PRI 26898.
- † *pleiocenum*, *Dentalium* Tuomey & Holmes, 1856: 105, 106, pl. 25, fig. 2. Pliocene. Pee Dee, South Carolina, USA.
- † *pliocenica*, *Dentalium* (*Entalis*) *badensis* var. Sacco, 1897: 107, 108, pl. 9, fig. 21 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Vezza d'Alba, Italy. Syntype MIGT BS.106.03.011 (*fide* Ferrero Mortara *et al.* 1984: 307).
- † *pliocenica*, *Dentalium* (*Entalis*) *recta* var. Sacco, 1897: 110, pl. 10, fig. 3. Pliocene. Piacentino and Rio Torsero, Liguria, Italy. Syntype MIGT BS.106.03.034 (*fide* Ferrero Mortara *et al.* 1984: 308). Remark: if both of Sacco's (1897) "*pliocenica*" taxa prove valid species of *Fissidentalium* (as suggested by the current placement of the species they were described as varieties of) this one will have to be renamed as a junior homonym.
- † *pliocenica*, *Dentalium* (*Entalina*) *mediocarinata* subsp. Koperberg, 1931: 33. Pliocene. Locality 6, "Nono Fatoe Fekoe (Toi Oesapi Soka)," Timor. Junior homonym of *Dentalium* (*Entalis*) *badensis* var. *pliocenica* Sacco, 1897 and *D. (Entalis) recta* var. *pliocenica* Sacco, 1897. Remark: if both of Sacco's (1897) "*pliocenica*" taxa prove to be valid species, Koperberg's species will have to be renamed as since it is a junior homonym.
- pluricosatum*, *Dentalium* Boissevain, 1906: 30, pl. 6, figs 6, 7. Recent. Indonesia, Buton Strait, Siboga stn 204, 04°20'S, 122°58'E, 75-94 m. Lectotype ZMA 3.06.027 (designated by Scarabino 1995: 207); paralectotypes ZMA 3.06.025 (1; Bougainville Strait, stn 153, 0°3.8'N, 130°24.3'E, 141 m), ZMA 3.06.026 (3, *fide* R. Moolenbeek & A. N. Van der Bijl, *in litt.* 23.VI.2000; probably 2 specimens lost). *Dentalium pluricosatum* Boissevain, 1906. Indo-Pacific: East Africa to Philippines. 9-240 m.
- plurifissuratum*, *Schizodentalium* Sowerby, 1894: 158, 159, pl. 12, fig. 24. Recent. Hong Kong (probably erroneous, *fide* Pilsbry & Sharp 1897: 83, 84, and *fide* Scarabino 1995: 257). Lectotype BMNH 1895.4.29.179 (designated by Sowerby 1903: 231; as "the type"); paralectotypes BMNH 1895.4.29.180, 181 (2). *Schizodentalium plurifissuratum* Sowerby, 1894. South Africa. 80-564 m. Remark: Sowerby (1894: 159) was uncertain about the origin of the specimens. The subsequently reported material from South Africa renders Hong Kong an unlikely type locality.
- pluteum*, *Dentalium* (*Laevidentalium*) Colman, 1958: 143, 144, fig. 8. Recent. Off Woollongong, New South Wales, Australia, 100 fms [183 m]. Holotype and 4 paratypes AMS C18217. Junior synonym of *Laevidentalium erectum* (Sowerby, 1860) (*fide* Lamprell & Healy 1998: 109).
- poculum*, *Cadulus* Dall, 1889: 429. Recent. Off St Vincent, West Indies, Blake stn 226, 13°09'05"N, 61°16'20"W, 424 fms [774 m; 646 fms in error in original description]. Lectotype USNM 95374 (designated by Henderson 1920: 109); paralectotypes USNM 887461 (1), MCZ 7743 (1; Cape San Antonio, 640 fms [1168 m]). *Polyschides poculum* (Dall, 1889) n. comb. Western Atlantic, Caribbean. 774-1168 m. Remark: Turner (1955: 319) erroneously stated that MCZ 7743 was the "holotype".
- podagrinus*, *Cadulus* (*Cadulus*) Henderson, 1920: 148, 149, pl. 20, fig. 5. Recent. Off English Harbor, Antigua, 120 fms [219 m]. Holotype USNM 596597; paratypes USNM 314935. Junior synonym: *Cadulus halius* Henderson, 1920 (n. syn., by

- First Reviser action, according to ICZN 1999: article 24). *Cadulus podagrinus* Henderson, 1920. Known from the type locality only.
- politum**, *Dentalium* Linnaeus, 1767: 1264 [citing Gualtieri 1742: t. 10. f. F]. Recent(?). Indian Ocean and Sicily. Syntypes LS 614 (2), ZMUU 1012. *Fustiaria polita* (Linnaeus, 1767) (*vide* Pilsbry & Sharp 1897: 128). Indian Ocean. Remarks: Deshayes (1861: 216) considered Linnaeus' specimens likely to be fossil. Pilsbry & Sharp (1897: 128) identified as *Dentalium* (*Fustiaria*) *politum* Recent specimens which Deshayes (1825: 368) and Sowerby (1860: 99) had reported as *Laevidentalium eburneum* (Linnaeus, 1767).
- politum**, *Dentalium* Blainville, 1819: 70, *non* Linnaeus, 1767. Junior synonym of *Antalis vulgaris* (Da Costa, 1778) (*vide* Pilsbry & Sharp 1897: 42).
- politus**, *Ditrupa* S. Wood, 1842: 459, pl. 5, fig. 14. Coralline Crag (Pliocene), Sutton, England, United Kingdom. Type material not located. Junior synonym: *Dentalium bifissum* S. Wood, 1848 (*vide* Pilsbry & Sharp 1897: 144). *Dischides politus* (S. Wood, 1842) (*vide* Pilsbry & Sharp 1897: 144). Eastern Atlantic, Mediterranean. 9-324 m.
- politus**, *Gadus* Benoist, 1873: 268, 269. Miocene. Giraudeau, Lagus and Pont-Pourquey, France. Junior secondary homonym of *Cadulus politus* (S. Wood, 1842). Replacement name: *Siphondentalium* (*Dischides*) *subpolitum* Cossmann & Peyrot, 1917.
- polycostatum**, *Striodentalium* Qi & Ma, 1989: 119, 120, fig. 12. Recent. East China Sea, 184 m. Types in IOS(?). *Striodentalium polycostatum* Qi & Ma, 1989. Indo-Pacific: China Sea. 184 m.
- † **polyedrum**, *Dentalium* Seguenza, 1879: 275. Pliocene, Astian stage. Gallina, Reggio, Calabria, Italy.
- † **polygonum**, *Dentalium* Reuss, 1844: 201, 202. Cretaceous. Wollenitz and Priesen a/d Eger, Bohemia, Czech Republic.
- polygonum**, *Dentalium* Casey, 1903: 267. Oligocene. Red Bluff, Mississippi, USA. Doubtful syntype USNM Paleobiology 481673 (1) (*vide* MacNeil & Dockery 1984: 247). Junior homonym of *Dentalium polygonum* Reuss, 1844. Replacement name: *Dentalium casey*: n. nom. Remarks: there is a handwritten label in the type lot, with no author, stating that the "specimen associated with this number is not the specimen described 9/8/64 [8 Sept. 1964]". MacNeil & Dockery (1984: 247, pl. 67, figs 10-13) redescribed this fossil and treated it as a valid species of *Dentalium*.
- † **polypleurum**, *Dentalium* Seifert, 1959: 25, 26, pl. 1, figs 5, 6. Oligocene. Hoerstgen, Kapellen, Rossenray, Sternberger Gestein, Germany. Holotype Kiel Geologisches Institut No. 738; paratype Kiel Geologisches Institut No. 739.
- † **poncensis**, *Cadulus* Maury, 1920: 47, pl. 7, fig. 13. Tertiary. Maury stn 283, near Ponce, Puerto Rico.
- ponderi**, *Fissidentalium* Lamprell & Healy, 1998: 83, 84, figs 82A, 83A, 84. Recent. Off Newcastle, New South Wales, Australia, 32°59'S, 152°33.5'E, 444 m. Holotype AMS C174624; paratypes AMS C173468 (1), AMS C307826 (2; NE of Woollongong, New South Wales, 34°18-24'S, 151°26-21'E, 457-484 m), SAM D 18888 (2; 50 km E of Gabo Island, Victoria, Australia, 37°37'S, 150°17'E, 436 m). *Fissidentalium ponderi* Lamprell & Healy, 1998. Pacific Ocean, Tasman Sea: southern Australia. 82-770 m.
- † **ponderosum**, *Dentalium* Gabb, 1873: 244, 245. Tertiary. Dominican Republic. Type material ANSP 2708 (*vide* Pilsbry 1922: 400). *Tesseracme dissimilis* var. *ponderosum* (Gabb, 1873) (*vide* Pilsbry & Sharp 1898a: 470, pl. 10, figs 1-3, pl. 11, figs 15, 16).
- porcatum**, *Dentalium* Gould, 1859: 166. Recent. Hong Kong Harbor [China]. Lectotype MCZ 169304 (designated by Johnson 1964: 130 as holotype); paralectotypes USNM 24142 (2). *Antalis porcata* (Gould, 1859) (*vide* Scarabino 1995: 228). Indo-Pacific: Madagascar to Hong Kong. 75-90 m. Remark: the lectotype is missing, with a note in the tray saying "Specimen missing 8-15-77".
- † **porterensis**, *Dentalium* Weaver, 1912: 79, pl. 13, fig. 113. Lower Miocene, Blakeley Formation. U.W. [University of Washington] Loc. 90, W of Porter, on bluff on north side of Chehalis River, Grays Harbor County, Washington, USA. Holotype CAS 7517 (*vide* Weaver 1942: 268). Remarks: the type locality was originally indicated as from Chehalis County, and corrected by Weaver (1942) to Grays Harbor County. The holotype of this species was formerly WSM 81 ("U.W. 81"), but many of the Weaver types were subsequently transferred to the CAS (R. Eng *in litt.* 29.VI.2001).
- † **portlocki**, *Dentalium* Tate, 1870b: 17, pl. 1, fig. 15. Replacement name for *Dentalium tenue* Portlock, 1843 *non* Goldfuss, 1841. Jurassic, Liassic. Aghanloo, Ballymaglin and Ballycarton; Magilligan, Craig and Gortmore, Ireland. Holotype Museum of Practical Geology, London, No. 5799 (*vide* Richardson 1906: 584) (now in BMNH?). Richardson also designated this specimen as the neotype of *Laevidentalium minimum* (Buckman *in* Murchison, 1845). Junior objective synonym of *Laevidentalium minimum* (Buckman *in* Murchison, 1845). Remark: Woodward (1893: 352) listed this name as a junior synonym of *Dentalium etalense* Terquem & Piette, 1865, but without any explanation.
- portoricense**, *Dentalium* (*Dentalium*) *gouldii* Henderson, 1920: 30, 31, pl. 2, fig. 5. Recent. Mayaguez Harbor, Puerto Rico, USBF stn 6062, 25-30 fms [46-55 m]. Holotype USNM 161568. Subspecies of *Dentalium gouldii* Dall, 1889.
- portoricensis**, *Cadulus* (*Platyschides*) Henderson, 1920: 115, 116, pl. 18, fig. 6. Recent. Mayaguez Harbor, Puerto Rico, USBF stn 6062, 25 fms [46 m].

- Holotype USNM 314712. *Polyschides portoricensis* (Henderson, 1920) n. comb. Western Atlantic, Caribbean. 46-86 m.
- † *potiezi*, *Dentalium* (s.s.) Le Renard, 1994: 39. Eocene. Grignon, France. For *Dentalium sulcatum* Lamarck, 1818 non Schumacher, 1817. *Dentalium potiezi* Le Renard, 1994 (fide Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- potteri**, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 53, 54, figs 44E, 45E, 50A-C, 51. Recent. Off Cairns, northern Queensland, 17°50.67'S, 147°18.2'E, 703 m. Holotype QM MO17888; paratypes QM MO17732 (5), QM MO17766 (1; 17°51'S, 147°18'E, north Queensland, 703 m), AMS C201739 (1; 17°51'S, 147°18'E, north Queensland, 703 m). *Dentalium potteri* Lamprell & Healy, 1998. Indo-Pacific: eastern Australia. 410-703 m.
- † *praecursor*, *Dentalium* (*Compressidens*) Pilsbry & Sharp, 1898a: 472, pl. 11, figs 12-14. Oligocene. Dominican Republic. Type material ANSP 2717 (fide Pilsbry 1922: 400).
- praecursor*, *Dentalium* Mayer-Eymar, 1904: 312, 313 [description; 1903: 283 name only]. Tertiary. Hélouan and Wadi el Fih, Egypt. Junior homonym of *Dentalium praecursor* Pilsbry & Sharp, 1898; junior synonym of *Dentalium kabirahense* Cossmann, 1901 (fide Oppenheim 1906: 214, 215).
- † *praetenuis*, *Cadulus* Stephenson, 1952: 143, pl. 34, figs 7-9. Upper Cretaceous, Cenomanian, Woodbine Formation. Grayson County Locality 154, gullies south of the old Sherman road, 2.8 miles E of Whitesboro, Grayson County, Texas, USA. Holotype USNM Paleobiology 105616; paratypes USNM Paleobiology 105616-105618.
- pressum**, *Dentalium* (*Compressidens*) Sharp & Pilsbry in Pilsbry & Sharp, 1897: 124, 125, pl. 22, figs 50-52, pl. 7, fig. 11. Recent. Culebra Island, West Indies, *Challenger* stn 24, 18°38'30"N, 65°05'30"W, 390 fms [712 m]. Holotype (of *compressum* Watson) BMNH 1887.2.9.35. Replacement name for *Dentalium compressum* Watson, 1879 non d'Orbigny, 1850. *Compressidens pressum* (Sharp & Pilsbry in Pilsbry & Sharp, 1897). Western Atlantic: Blake Plateau (off the USA coast between Cape Hatteras and Florida) to Brazil. 170-1430 m.
- pretiosum**, *Dentalium* Sowerby, 1860: 97, pl. 225, fig. 57 [ex Nuttall MS]. Recent. California. Syntypes BMNH 1950.11.8.4-7. Junior synonyms: *Dentalium indianorum* Carpenter, 1864; *Antalis columbiana* Clessin, 1896; *A. denseliratum* Pilsbry & Sharp, 1898 (fide Pilsbry & Sharp 1897: 45, 1898: 250). *Antalis pretiosa* (Sowerby, 1860) (fide Pilsbry & Sharp 1897: 44). Eastern Pacific: Canada to California. 2-152 m.
- † *primarium*, *Dentalium* Hall, 1858: 666, pl. 23, fig. 16. Carboniferous. Warsaw Group, Hancock County, Illinois, USA.
- prionotum*, *Siphonodentalium* Watson, 1879: 522, 523 [Watson 1886: 16, pl. 2, fig. 9]. Recent. Raine Island, Cape York, Queensland, Australia, *Challenger* stn 185, 11°35'S, 143°03'E, 155 fms [283 m]. Lectotype BMNH 1887.52.9.67 (designated by Ludbrook 1954: 116); paralectotypes BMNH 1887.52.9.68 (3). *Dischides prionotus* (Watson, 1879) (fide Pilsbry & Sharp 1898: 146). Indo-Pacific: Red Sea, Madagascar to Australia. 8-284 m. Remark: Lamprell & Healy (1998: 167) independently selected the same lectotype.
- † *priscum*, *Dentalium* Goldfuss, 1841: 2, pl. 166, fig. 3 [ex Münster MS]. Carboniferous. Tournay, Belgium. Remark: as *nomen nudum* in Sandberger (1842: 399).
- † *prisma*, *Dentalium* Dall, 1892: 442, pl. 15, fig. 5. Pliocene. Caloosahatchie River, Florida, USA. Syntypes USNM Paleobiology 112742 (3 + fragments). Remark: Schuchert *et al.* (1905: 220) cited USNM 112742 as the "holotype" but did not specify which syntype was to be the holotype, so this does not constitute a valid lectotype designation.
- † *prismaticum*, *Dentalium* Seguenza, 1879: 117, pl. 11, figs 49, 49a. Miocene. Reggio, Calabria, Italy.
- profundorum**, *Dentalium* E. A. Smith, 1894: 167, 168, pl. 4, fig. 18. Recent. Colombo, Sri Lanka, India, Investigator stn 167, 6°32'N, 79°37'E, 675 fms [1234 m]. Lectotype ZSI M60/1 (fide label in BMNH) or ZSI 4120/7 (fide list at BMNH) (designated by Lamprell & Healy 1998: 93 as holotype); paralectotypes BMNH 1894.9.11.11. Junior synonym: *Fissidentalium lima* Kuroda & Habe in Habe, 1963 (fide Habe 1964: 13). *Fissidentalium profundorum* (E. A. Smith, 1894) (fide Pilsbry & Sharp 1897: 79). Indo-Pacific: Madagascar to Japan and New Caledonia. 40-3560 m.
- † *proliferum*, *Dentalium* Chenu, 1843: pl. 4, fig. 5; 1850: 6. Pliocene/Miocene. Italy.
- promontorii**, *Cadulus* Barnard, 1963b: 353, fig. 30h-l (*nomen nudum* in Barnard 1963a: 446). Recent. Off Cape Point, South Africa, 700 fms [1278 m]. Syntypes SAFM A7460 (4; fide Giles & Gosliner 1983: 41), NMW. *Siphonodentalium promontorii* (Barnard, 1963) (fide Scarabino 1995: 331). South Africa. 850-1280 m.
- propinquus**, *Cadulus* G. O. Sars, 1878: 106, 107, pl. 20, fig. 15a, b, pl. 1, fig. 5. Recent. Finmark and west coast of Norway, 100-450 fms [183-821 m]. Syntypes ZMO 26071-72. *Cadulus propinquus* G. O. Sars, 1878. Eastern Atlantic: Europe and North Africa. 60-2300 m.
- † *prosperus*, *Cadulus* (*Gadilopsis*) Marwick, 1931: 159, pl. 18, fig. 346. Miocene. Tongaporutuan, Ihungia and Tutamoe Series. Waikohu, New Zealand. Holotype NZGS TM4816 (fide Keyes 1972: 97). *Striocadulus prosperus* (Marwick, 1931) (fide Beu & Maxwell 1990: 424).
- † *prosseri*, *Plagioglypta* Morningstar, 1922: 245, 246, pl. 16, figs 3, 4. Carboniferous, Lower Pennsylvanian.

- Lower Mercer Limestone (Perry County, Muskingum County and Licking County); McArthur Limestone (Jackson County and Vinton County), Ohio, USA. Type material USNM Paleobiology 340010 (1) (Bald Knob, 2 miles southeast of Newark, Licking County, Ohio).
- † *proteiforme*, *Dentalium* Cossmann, 1910: 81, 82, pl. 5, figs 26-28. Pliocene. Kariakal [Karikal], India. Three syntypes stated to be in the Bonnet collection.
- † *proterum*, *Dentalium* (*Dentalium*) *armillatum* subsp. Woodring, 1973: 482, pl. 71, figs 8, 17. Late Oligocene, Caimito Formation. USGS locality 18841, Barro Colorado Island, Canal Zone, Panama. Holotype USNM Paleobiology 646697. Synonym of *Dentalium armillatum* Toulou, 1911.
- † *protuberans*, *Pipadentalium* Yoo, 1988: 249, 250, figs 152-154. Early Carboniferous, Late Tournaian, Dangarfild Formation. Locality A-3, 2.6 km SW of Gundy, Upper Hunter, New South Wales, Australia. Holotype AMS F.61998; paratype AMS F.61999 (1).
- providensis*, *Cadulus* (*Platyschides*) Henderson, 1920: 122, pl. 18, fig. 14. Recent. Off Old Providence Island, Bahamas, USBF stn 2150, 13°34'45"N, 81°21'10"W, 382 fms [696 m]. Holotype USNM 94055; paratypes USNM 108176, AMNH 148352 (1; USBF stn 2668, 294 fms [537 m]; *vide* Boyko & Sage 1996: 31). *Gadila providensis* (Henderson, 1920). Western Atlantic, Caribbean. 536-696 m. Remark: the subgenus *Platyschides* was put in synonymy with *Gadila* by Scarabino (1995: 196, 355).
- † *prudens*, *Dentalium* Brunet, 1995: 49, pl. 5, fig. 3. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-076.
- † *pseudacutum*, *Fissidentalium novaki* subsp. R. Janssen, 1989: 81, 82, pl. 1, figs 1-12. Middle Oligocene, Rupelian. Welschberg, near Waldböckelheim, Mainzer Becken, Germany. Holotype SMF 308300; paratypes SMF 308301/6, SMF 308302/7, SMF 308303/25, SMF 308304/100, RGM 229723/10.
- † *pseudaprina*, *Dentalium* (*Antale*) *novemcostatum* var. Sacco, 1897: 102, pl. 8, figs 59, 60 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Italy (various localities). Syntypes MIGT BS.106.02.051, BS.106.02.052 (*vide* Ferrero Mortara *et al.* 1984: 305).
- † *pseudellipticum*, *Laevidentalium* n. nom. Lower Oligocene. Lattorf, Germany. Replacement name for *Dentalium* (*Laevidentalium*) *ellipticum* Koenen, 1892 non *Dentalium ellipticum* J. Sowerby, 1814.
- † *pseudoantalis*, *Dentalium* Lamarck, 1818: 345 [original spelling *pseudo-antalis*]. Tertiary. Grignon, France. Junior synonym: *Dentalium pseudoantalis* DeFrance, 1819 (*vide* Deshayes 1825: pl. 1, figs 4-6). Remarks: a valid species of *Dentalium* (*Entaliopsis*) (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85). *Dentalium pseudoantalis* [DeFrance, 1819: 72] is an incorrect subsequent spelling.
- † *pseudobouei*, *Dentalium* (*Entalis*) *badensis* var. Sacco, 1897: 108, pl. 9, fig. 23 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.03.012 (*vide* Ferrero Mortara *et al.* 1984: 307).
- † *pseudocircinata*, *Fustiaria* Gougerot, 1968: 235, 236, pl. 1, fig. 2 [original spelling *pseudo-circinata*]. Eocene, Upper Lutetian, Paris Basin. Montmirail, Seine-et-Marne, France. *Fustiaria pseudocircinata* Gougerot, 1968 (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- pseudoantalis*, see *pseudoantalis*.
- pseudoantalis*, *Dentalium* O. G. Costa, 1851: 17, 18, pl. 1, fig. 2. Recent. "Golfo Tarantino" [Italy]. Type material not located. Junior synonym of *Antalis panorma* (Chenu, 1843) (*vide* Pilsbry & Sharp 1897: 54; as "*pseudo-antalis*" non Lamarck, 1818; misspelling corrected by Pilsbry & Sharp, 1898: 250).
- † *pseudofissura*, *Dentalium* (*Antalis*) R. Janssen, 1978a: 14-16, pl. 1, figs 1, 2, pl. 4, fig. 1; 1978b: 139, 140, pl. 9, fig. 3. Upper Oligocene. Kasseler Meeressand, Tagebau Höllkopf, near Glimmerode, Niedersachsen, Germany. Holotype SMF 245901; paratypes SMF 245902, SMF 245903. For *Dentalium fissura* auct. (reported from the Upper Oligocene) non Lamarck, 1818.
- pseudohexagonum*, *Dentalium* Arnold, 1903: 186, 187, pl. 8, figs 12, 12a [ex Dall MS]. Pliocene (San Pedro Series) and Pleistocene. Deadman Island; San Pedro; San Diego, California. Junior synonym of *Dentalium neohexagonum* Sharp & Pilsbry in Pilsbry & Sharp, 1897. Remark: Arnold described this taxon as a new species, even though he listed *D. neohexagonum* as a synonym; thus, Arnold's name was published in synonymy and is, thus, not available.
- pseudohexagonum*, *Dentalium* (*Antalis*) Henderson, 1920: 46, 47, pl. 6, figs 1-3 [ex Ihering MS]. [Recent]. Brazil. Holotype USNM 225817. Junior homonym of *Dentalium pseudohexagonum* Arnold, 1903; replacement name: *Dentalium* (*Antalis*) *pilsbryi* Rehder, 1941: 96. *Antalis pilsbryi* Rehder, 1942 (*vide* Scarabino 1975: 183).
- pseudohexagonum* "Deshayes, 1825", see *pseudosexagonum*.
- † *pseudohungaricus*, *Cadulus* (*Gadila*) Szöts, 1953: 81 [Hungarian], 203 [French], pl. 7, figs 53, 54. Eocene. Gánti-szölök, Hosszúharasztos and Újfeltárás, Hungary. Lectotype Hungarian Geological Institute E.180 (designated by Boda 1964: 67 as "holotype"). Remark: this species was described from three localities in Hungary. Boda (1964: 67), by stating that the specimen from Hosszúharasztos was the holotype, selected that specimen as the lectotype and restricted the type locality.
- pseudolivi*, *Cadulus* (*Gadila*) Boissvain, 1906: 73, 74, pl. 6, fig. 67, text-fig. 36. Recent. Banda Sea, *Siboga*

- stn 211, 05°40.7'S, 120°45.5'E, 1158 m. Holotype ZMA 3.06.101. *Gadila pseudolivae* (Boissevain, 1906) (*vide* Scarabino 1995: 364). Known from type locality only. Remark: holotype incorrectly cited as a syntype by Scarabino (1995: 364) (*vide* R. Moolenbeek & A. N. Van der Bijl, *in litt.* 23.VI.2000).
- † *pseudomutabile*, *Lentigodentalium* R. Janssen, 1989: 85, 86, pl. 1, figs 10-13. Miocene, Hemmoorian/Reinbekian. Twistingringen, Niedersachsen, Germany. Holotype SMF 308312; paratypes SMF 308313, SMF 308314, SMF 308315/50; RGM 227725.
- † *pseudonyma*, *Dentalium* Pilsbry & Sharp, 1898: 213. Miocene. Astoria, Oregon, USA. Type specimen lost. Moore (1963: 50) selected the illustration in Conrad (1849: pl. 20, fig. 7a) as the lectotype of this species. Replacement name for *Teredo substriata* Conrad, 1849 non *Dentalium substriatum* Deshayes, 1825. Remark: *Dentalium conradi* Dall, 1909, an unnecessary replacement name, is a junior synonym; see Emerson (1958) for further discussion.
- † *pseudorakhiense*, *Dentalium* (*Laevidentalium*) Eames, 1952: 6, pl. 1, figs 3a, 3b. Eocene. Rakhia Nala section, Upper Chocolate Clays, near Rakhi Gaj, Pakistan. Holotype BMNH G.68014.
- pseudosexagonum*, *Dentalium* Deshayes, 1825: 358 [38], pl. 16, figs 14-16. Recent. Type locality not specified. Lectotype and 5 paralectotypes MNHN (designated by Lamprell & Healy 1998: 63). *Paradentalium pseudosexagonum* (Deshayes, 1825). Indo-Pacific: Red Sea to China Sea and Australia. 3-499 m. *Dentalium* (*Paradentalium*) *pseudohexagonum* "Deshayes, 1825" [Habe & Kosuge, 1964: 1] is an incorrect subsequent spelling.
- † *pukaia*, *Fissidentalium* Maxwell, 1992: 185, pl. 30, figs a-d. Eocene. NZGS localities GS9508 and GS 11200, Waihao River, near McCulloch's Bridge, South Canterbury, New Zealand. Holotype NZGS TM7225; numerous paratypes, NZGS.
- pulcherrimus*, *Cadulus* (*Gadila*) Boissevain, 1906: 74, 75, pl. 6, figs 58, 59, text-fig. 38. Recent. Flores Sea, *Siboga* stn 314, 07°36'S, 117°30.8'E, 694 m. Lectotype ZMA 3.06.104 (designated by Scarabino 1995: 334); paralectotype ZMA 3.06.105 (5). *Striocadulus pulcherrimus* (Boissevain, 1906) (*vide* Scarabino 1995: 334). Indo-Pacific: Indonesia. 530-694 m.
- † *pulchrum*, *Dentalium* Wilckens, 1911: 30, 31, pl. 1, fig. 38. Tertiary. Seymour Island, Antarctica. Holotype SMNH 2968 (*vide* Stilwell & Zinsmeister 1992: 173). *Dentalium* (*Dentalium*) *pulchrum* Wilckens, 1911 (*vide* Stilwell & Zinsmeister 1992: 173, 174).
- punctatostriatum*, *Dentalium* Gümbel, 1861: 274. Triassic. Lodensee, Germany. *Nomen nudum*.
- pusillum*, *Dentalium* Philippi, 1836. Not a scaphopod. See Other taxa described as Scaphopoda.
- pusillum*, *Dentalium* (*Ditrupa* "?") Gabb, 1864: 139, pl. 21, fig. 99. Cretaceous. NE of Martinez; Alizos Creek, near Fort Téton; and Tuscan Springs, California, USA. Lectotype ANSP 79582 (designated by Emerson 1957: 988, 989, pl. 26, figs 1, 5) (from Martinez); paralectotype ANSP 79583. Junior homonym of *Dentalium pusillum* Philippi, 1836. Replacement name: *Cadulus gabbi* Pilsbry & Sharp, 1898. Remark: Gabb (1869: 230) transferred this species to "*Gadus*".
- pusillum*, *Siphodentalium* Watson, 1879: 520 [Watson 1886: 14, pl. 2, fig. 6]. Recent. Palma, Canaries, *Challenger* stn 85, 28°42'N, 18°06'W, 1125 fms [2025 m]. Syntypes BMNH 1887.2.9.64 (2). *Pulsellum pusillum* (Watson, 1879) (*vide* Pilsbry & Sharp 1897: 140). Known from the type locality only.
- pygmaeus*, *Dentalium* DeFrance, 1819. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *pyrum*, *Dentalium* Pilsbry & Sharp, 1898a: 472, pl. 11, figs 6, 7. Oligocene. Dominican Republic. Type material ANSP 2714 (*vide* Pilsbry 1922: 400).
- † *qingyanicum*, *Prodentalium* Stiller, 2001: 626-630, figs 5.8-5.12, 6. Upper Anisian, Middle Triassic. Bangtoupou, NNE of Qingyan, Guizhou Province, southwestern China. Holotype GPIM B6D-1.S3.Fbt-1; paratypes GPIM B6D-1.S3.F30-1, GPIM B6D-1.S3.F30-2, GPIM B6D-1.S3.Fbt-2.
- quadrangulare*, *Dentalium* Sowerby *in* Broderip & Sowerby, 1832: 29. Recent. Xipixapi [West Colombia], 7-11 fms [13-20 m]. Syntypes BMNH 1950.11.8.10-14. Junior synonym: *Dentalium fisheri* Pilsbry & Sharp, 1897 (*vide* Emerson 1956: 2). *Tesseracme quadrangularis* (Sowerby *in* Broderip & Sowerby, 1832) (*vide* Emerson 1956: 2). Eastern Pacific: Baja California to Ecuador. 0-37 m.
- quadrangulare*, *Dentalium* Deshayes, 1835: 132, pl. 26, fig. 14. Mesozoic. Morea, Peloponnesus, Greece. Junior homonym of *Dentalium quadrangulare* Broderip & Sowerby, 1832. Replacement name: *Dentalium subquadrangulare* Emerson, 1954.
- quadrangularis*, *Entalina* Boissevain, 1906: 62, 63, text-fig. 28, pl. 6, figs 73-75, 85, 86. Recent. Off Kai-Islands [Indonesia], *Siboga* stn 256, 5°26.6'S, 132°32.5'E, 397 m. Lectotype ZMA 3.06.081 (designated by Habe 1964: 39; and unnecessarily by Scarabino, 1995: 300); paralectotypes ZMA 3.06.082 (1; Celebes Sea, *Siboga* stn 88, 0°34.6'N, 119°08.5'E, 1301 m), ZMA 3.06.083 (Halmahera Sea, *Siboga* stn 151, 0°12.6'S, 129°48'E, 845 m). Junior synonym of *Entalina mirifica* (E.A. Smith, 1895) (*vide* Scarabino 1995: 300). Remarks: Habe (1964: 39) gave the wrong type locality (*Siboga* stn 88) for the lectotype specimen (*vide* R. Moolenbeek & A. N. Van der Bijl, *in litt.* 23.VI.2000). *Entalina quadrangularis* [Habe 1963: 271] is an incorrect subsequent spelling.
- quadrangulatum*, *Dentalium* "Klipstein." Manuscript name; see *Dentalium klipsteini* Kittl, 1891.
- † *quadrangulatum*, *Dentalium* Hu & Lee, 1991: 121, figs 18, 19, 29-31. Pliocene. Hanchun Peninsula,

- Maan Mountain, Taiwan. Holotype NMT 296; paratypes NMT 296a-d. Remark: this species probably belongs to the genus *Entalina*.
- † *quadrangulum*, *Dentalium* Assmann, 1937: 98, pl. 18, fig. 22. Triassic. Gorasdzę, Upper Silesia, Poland.
- quadruplicale*, *Dentalium* Hanley in Sowerby, 1860: 103, pl. 225, fig. 61. Recent. Cochin, Malabar, Southwest India. Lectotype BMNH 1907.10.28.147 (designated by Ludbrook 1954: 103 as holotype); paralectotypes BMNH 1907.10.28.148-149 (2). Junior synonyms: *Dentalium dipsycha* Pilsbry & Sharp, 1897; *Dentalium conspicuum* Melville, 1897 (fide Scarabino 1995: 222). *Tesseracme quadruplicalis* (Hanley in Sowerby, 1860) (fide Plate 1908a: 350). Indo-Pacific: Africa to northern Australia. 6-743 m. Remark: Habe & Kosuge (1964: 5) synonymized *T. tetrapleura* (Boisvein, 1906) with this species.
- quadrata*, *Entalina* Henderson, 1920: 88, pl. 15, figs 2, 3, 6, 10. Recent. Off Grenada [Lesser Antilles], Blake stn 248, 12°02'35"N, 61°47'15"W, 159 fms [290 m]. Holotype USNM 95354 (formerly a syntype of *Dentalium callithrix* Dall, 1889). Junior secondary homonym of *Entalina quadrata* (Martin, 1885). Junior synonym of *Entalina platanodes* (Watson, 1879) (fide Emerson 1952a: 7, 8; Scarabino 1975: 181).
- † *quadratum*, *Dentalium* Martin, 1885: 190, pl. 10, fig. 191; 1887: 190, pl. 10, fig. 191. Miocene. Grisee, Java, Indonesia. Syntypes RGM 7290 (5) (fide Van den Hoek Ostende *et al.* 2002: 112). Junior secondary homonym: *Entalina quadrata* Henderson, 1920. *Entalina quadrata* (Martin, 1885) (fide Martin 1919: 69).
- quadrangularis*, see *quadrangularis*.
- quadrucostatum*, *Dentalium* Brazier, 1877: 58. Recent. Princess Charlotte Bay, Queensland, Australia, 13 fms [24 m]. Lectotype AMS C170763 (ex AMS 94ii) (designated by Lamprell & Healy 1998: 78); paralectotypes AMS C308638 (11), AMS C170762 (11; Katow, New Guinea, 8 fms [15 m]), AMS C170761 (1; York Island, Torres Strait, 13 fms [24 m]). *Eudentalium quadrucostatum* (Brazier, 1877) (fide Cotton & Godfrey 1933: 140). Indo-Pacific: northern Australia and New Guinea. 9-124 m.
- quadridentatum*, *Siphonodentalium* Dall, 1881: 36. Recent. West coast of Florida, 30 fms [55 m]. Holotype MCZ 7739. Junior synonym of *Polyschides tetraschistus* (Watson, 1879) (fide Scarabino 1980: 11). Remark: Emerson in Turgeon (1998: 55) recognized *quadridentatum* as a valid species of *Polyschides* without justifying the rejection of Scarabino's synonymy.
- quadrifissatus*, *Cadulus* (*Polyschides*) Pilsbry & Sharp, 1898: 150, 151, pl. 29, figs 10-13 [ex Carpenter MS]. Recent. San Pedro; San Diego, California [32°45'N, 117°10'W], 10 fms [18 m]. Syntypes USNM 19462 (1), ANSP 35583 (1). *Polyschides quadrifissatus* (Pilsbry & Sharp, 1898). Eastern Pacific: California. 18 m. Remark: this species was placed in *Siphonodentalium* by Keen (1971: 890) and Emerson in Turgeon (1998: 55).
- † *quadrirritus*, *Cadulus* Meyer, 1886: 65, pl. 3, figs 7, 7a. Eocene. Red Bluff, Mississippi, USA. Syntype USNM Paleobiology 644578 (as "holotype" in MacNeil & Dockery 1984: 248, 249).
- † *quatuordecimcostata*, *Dentalium* (*Antale* "?") *dentale* var. Sacco, 1897: 105, pl. 8, figs 76, 77 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Italy (various localities). Syntypes MIGT BS.106.02.067, BS.106.02.068 (fide Ferrero Mortara *et al.* 1984: 306).
- † *quenstedti*, *Dentalium* Blake, 1875: 226 (citing Quenstedt 1857: 797, pl. 98, fig. 20). Jurassic. Söflingen, Germany. Remark: Blake (1875) based this species upon a figure: "Quenstedt does not give a name to the *Dentalium* figured by him, which does not appear to differ from those found in the Kimmeridge Clay generally throughout England. I therefore propose the above name in accordance with a now accepted custom".
- † *quindeciesstriatum*, *Dentalium* Eichwald, 1853: 137; pl. 3, fig. 19. Pliocene. Zukowce, Volhynia, Ukraine. Replacement name for *Dentalium striatum* Eichwald, 1830 non Born, 1778. *Antalis quindeciesstriata* (Eichwald, 1853) (fide Harzhauser 2002).
- quinguangulare*, *Dentalium* Forbes, 1844: 135, 188. Recent. Aegean Sea, 80-230 fms [46-420 m]. Syntypes BMNH 1948.2.11.6-8 [3 syntypes in bad condition], BMNH 1948.4.8.28 (1). Junior synonym of *Entalina tetragona* (Brocchi, 1814) (fide Monterosato 1872: 27).
- quinguangulare*, *Dentalium* Gumbel, 1861: 397, 409. Triassic. Bavaria, Germany. Junior homonym of *Dentalium quinguangulare* Forbes, 1844. Replacement name: *Dentalium pentagonale* Pilsbry & Sharp, 1898.
- † *quitus*, *Cadulus* (*Polyschides*) Pilsbry & Olsson, 1941: 48, 49, pl. 10, figs 9, 10. Pliocene, Canoa Formation. Punta Blanca, western Ecuador. Holotype ANSP 13719; paratype ANSP 13718.
- radicula*, *Dentalium* Lamarck, 1818. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *radiolineata*, *Dentalium* Clark, 1918: 192, pl. 22, fig. 12. Oligocene, San Ramon Formation. Near Mount Diablo, California, USA. Holotype UCMP 11227.
- † *radula*, *Dentalium* Gmelin, 1791: 3738, 3739 [citing Schröter 1784a: 530 n. 9]. Miocene. Piedmont, Italy. Junior synonym: *Dentalium asperum* Michelotti, 1847 (fide Sacco 1897: 111). *Coccodentalium radula* (Gmelin, 1791) (fide Sacco 1896: 98).
- † *radularis*, *Dentalites* Schlotheim, 1820: 95. Miocene. Piedmont, Italy. Remark: it is not apparent whether this name is an emendation of *Dentalium radula* Gmelin.
- † *rakhiense*, *Dentalium* (*Laevidentalium*) Eames, 1952: 5, 6, pl. 1, figs 2a, 2b. Eocene. Rakhi Nala

- section, Upper Chocolate Clays, near Rakhi Gaj, Pakistan. Holotype BMNH G.68007.
- † *raricostata*, *Dentalium* (*Antale*) *fossile* var. Sacco, 1897: 100, pl. 8, figs 32–41 [as a *nomen nudum* in Sacco 1896: 97]. Miocene/Pliocene. Italy (various localities). Syntypes MIGT BS.106.02.028–BS.106.02.034 (*vide* Ferrero Mortara *et al.* 1984: 304, pl. 56, fig. 5).
- † *raricostata*, *Dentalium* (*Coccodentalium*) *radula* var. Sacco, 1897: 111, pl. 10, figs 19–21 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. San Agata, Italy. Syntypes MIGT BS.106.04.012, BS.106.04.014 (*vide* Ferrero Mortara *et al.* 1984: 308).
- † *rarinodosum*, *Dentalium* *haeringense* var. Báldi, Horvath & Makk, 1974: 27, pl. 2, fig. 11. Paleocene, Kiscellian. Budafok, S of Budapest, Hungary.
- rastridens*, *Cadulus* (Watson, 1879: 525 [Watson 1886: 19, pl. 3, fig. 3]. Recent. Culebra Island, *Challenger* stn 24, 18°38'30"N, 65°05'30"W, 390 fms [712 m]. Syntypes BMNH 1887.2.9.73–75 (completely disintegrated), BMNH 1994043 (11). *Gadila rastridens* (Watson, 1879) (*vide* Pilsbry & Sharp 1898: 174). Western Atlantic, Caribbean. 500–712 m.
- † *raymondi*, *Prodentalium* Young, 1942: 120, 121, pl. 20, figs 3–6, 8, 12. Pennsylvanian, Magdalena Group. Near Talpa, Sangre de Cristo mountains, northern New Mexico, USA. Holotype MCZ Invertebrate Paleontology 27938.
- razzorei*, *Cadulus* (*Gadila*) Caprotti, 1979: 248, 249, pl. 15, figs 1–7. Lower Pliocene. Rio Torsero, Liguria, Italy. Holotype MSNM I 5569. Remark: Caprotti (1979: 248) proposed this name for "*Gadila gadus* var. *gadula*" Sacco, 1897 [ex Doderlein MS], which Caprotti did not consider to be a valid name. However, Ruggieri (1980: 95, 96) demonstrated that Sacco's usage constitutes a valid description; thus, *C. (G.) razzorei* is an junior synonym of *gadula* Sacco, 1897 (see also Pavia 1991: 137, 138).
- † *readi*, *Dentalium* Emerson, 1954: 184. Triassic, Carnian. Seiser Alp, Tirol, Austria. Replacement name for *Dentalium simile* Read in Broili, 1907 non *Dentalium simile* Wissmann, 1841 *nec* Giunti, 1859. *Laevidentalium readi* (Emerson, 1954) (*vide* Stiller 2001: 622).
- rebecaense*, see *rebeccaense*.
- rebeccaense*, *Dentalium* (*Dentalium*) Henderson, 1920: 31, 32, pl. 3, fig. 2. Recent. Between Tortugas and Rebecca Shoals, Florida, *Eolis* stn 33, 16 fms [29 m]. Holotype USNM 314293; paratypes USNM 314294 (25), AMNH 148314 (1). Junior synonym of *Paradentalium americanum* (Chenu, 1843) (*vide* Scarabino 1975: 183). *Dentalium rebeccaense* [Scarabino *in* Rios 1975: 183; 1994: 305] is an incorrect subsequent spelling.
- recta*, *Cadulus strangulatus* var. Locard, 1898: 136. Recent. Type locality not specified. Type material not located. Synonym of *Gadila strangulata* (Locard, 1897).
- rectius*, *Dentalium* Carpenter, 1864: 648. Recent. Puget Sound [Washington, USA]. Lectotype USNM 5283 (designated by Palmer 1958: 118, 119, pl. 17, figs 1, 2, as "holotype"); paralectotype MCZ 178535 (1). Junior synonym: *Rhabdus watsoni* Pilsbry & Sharp 1897 (*vide* Shimek 1998: 83). *Rhabdus rectius* (Carpenter, 1864) (*vide* Pilsbry & Sharp 1897: 113). Eastern Pacific: Alaska to California. 91–1794 m. Remarks: although Carpenter's (1864: 648) description was rather cursory, the name must be considered available notwithstanding the claim by Pilsbry & Sharp (1897: 114) that this species was not described by Carpenter until the following year (Carpenter 1865: 59). Shimek (1998: 83) listing of *Rhabdus dalli* Pilsbry & Sharp, 1897 in synonymy with this species remains to be confirmed.
- † *rectiusculum*, *Dentalium* Eichwald, 1857: 583 [*nomen nudum* in Eichwald 1846: 425]. Carboniferous ["Bergkalke"]. Kasakendörfer, Russia. Remark: figured by Eichwald (1860: 1062, 1063, pl. 40, fig. 12); locality given as Kasatschy-datschy, Ural, near Serpoukhov, Russia.
- rectum*, *Dentalium* (*Episiphon*) *kiaochowwanense* var. Tchang & Tsi, 1950: 7, 8, pl. 1, figs 7, 8. Recent. Kiaochow Bay [China], stn 331, 10 m. Holotype ASP 3261; 6 paratypes ASP 3261, ASP 2897 (13; stn 314, 5 m). Synonym of *Episiphon kiaochowwanense* (Tchang & Tsi, 1950).
- † *rectum*, *Dentalium* Gmelin, 1791: 3738 [citing Gualtieri 1742: t. 10. f. H; Martini, 1769: I. t. I. f. 4A; Schröter, 1784b, 4 t. 3. f. 5]. Type locality not specified. Type material not located. Junior synonyms: *Dentalium striatum* Link, 1807 (based upon the same figure from Schröter, 1784b); *Dentalium sulcatum* Schumacher, 1817 (based upon the same figure from Martini, 1769); *Dentalium crassum* Salis Marschlins, 1793 (cited the same figures as Gmelin); *Fissidentalium delessertianum* (Chenu, 1843) (*vide* Pilsbry & Sharp 1898: 213; Caprotti 1979: 223). Remarks: Pilsbry & Sharp (1897: 81) synonymized *Dentalium elephantinum* "Linnaeus" Deshayes, 1825, *partim* with *Dentalium rectum* and used Deshayes' locality information, "India", to indicate a Recent occurrence, which they later corrected by citing Fischer (Pilsbry & Sharp: 1898: 252). Fischer (1883) reported this species as living in the Eastern Atlantic, which was questioned by Caprotti (1979: 223, 224). Thus, *Fissidentalium rectum* is considered to be a valid fossil species but not a Recent one.
- recurvum*, *Dentalium* Deshayes, 1825: 30. Recent. Junior synonym of ?*Dentalium elephantinum* Linnaeus, 1758 (*vide* Pilsbry & Sharp 1897: 2; with the epithet "by error?", probably applying to Deshayes new species).
- reesi*, *Cadulus* (*Gadila*) Ludbrook, 1954: 115, fig. 20. Recent. Zanzibar area, John Murray Exp. stn 105B,

- 5°34'24"-37'S, 39°14'06"-36'E, 238-293 m. Holotype BMNH 1952.3.25.150; paratypes BMNH 1952.3.25.390-BMNH 1952.3.25.394, BMNH 1952.3.25.385-BMNH 1952.3.25.388 (3; stn 176, Gulf of Aden, 12°04'06"N, 50°38'3"E, 655-732 m), BMNH 1952.3.25.389 (1; stn 179B, Gulf of Aden, 12°02'06"N, 50°40'1"E, 275 m), BMNH 1952.3.25.395-BMNH 1952.3.25.401 (7; stn 191, Gulf of Aden, 13°46'3"N, 47°48'5"E, 274 m). Junior synonym of *Gadila boissevainae* (Jaekel, 1932) (*vide* Scarabino 1995: 358).
- reevei*, *Dentalium* Fischer, 1871: 212 [ex Deshayes MS]. Recent. Suez, Red Sea. Lectotype MNHN (designated by Scarabino 1995: 204; the remaining syntypes were not located by Scarabino). Junior synonyms: *Dentalium lineolatum* Cooke, 1885; *Dentalium laugierii* Jousseume, 1894 (*vide* Ludbrook 1954: 98; Singer 2003: 14). *Dentalium reevei* Fischer, 1871. Red Sea. 15-120 m. Remark: Singer (2003) restricted the distribution of *D. reevei* to the Red Sea.
- † *regium*, *Dentalium* Assmann, 1937: 97, 98, pl. 18, figs 19-21. Triassic. Goraszde and Greater Strehlitz, Upper Silesia, Poland. *Laevidentalium regium* (Assmann, 1937) (*vide* Stiller 2001: 622).
- regulare*, *Dentalium* E. A. Smith, 1903: 393, pl. 15, fig. 2. Recent. Port Shepstone, Natal, South Africa. Syntypes BMNH 1903.9.9.24, BMNH 1903.7.26.29-32. *Dentalium regulare* E. A. Smith, 1903. Indian Ocean: South Africa. 10-22 m.
- regulare*, *Dentalium* Ahlburg, 1906: 86, 87, pl. 3, fig. 2. Triassic. Granietz, Upper Silesia, Poland. Junior homonym of *Dentalium regulare* E. A. Smith, 1903; replacement name: *Dentalium subregulare* Palmer, 1974.
- regulare*, *Dentalium* (*Dentalium*) *laqueatum* var. Henderson 1920: 26, pl. 1, fig. 8. Recent. Jamaica, 73-140 fms [78-256 m]. Holotype USNM 107887. Junior homonym of *Dentalium regulare* E. A. Smith, 1903 and Ahlburg, 1906. Replacement name: *Dentalium invalidum* Emerson, 1954.
- regularis*, *Cadulus* (*Gadila*) Henderson, 1920: 137, pl. 19, fig. 14. Recent. Off Cape Canaveral, Florida, USBF stn 2660, 28°40'10"N, 78°46'W, 504 fms [919 m]. Holotype USNM 887475; paratypes USNM 108175, USNM 108278, USNM 330675, AMNH 148341 (21; stn 2668, 294 fms [537 m]), off Fernandina, Florida; *vide* Boyko & Sage 1996: 31). *Gadila regularis* (Henderson, 1920). Western Atlantic, Caribbean. 536-919 m.
- † *rei*, *Fissidentalium* "?" Maxwell, 1992: 186, pl. 30, figs e, f. Eocene. NZGS localities GS1162, GS3274, GS11200, GS4872, Waihao River, near McCulloch's Bridge, South Canterbury, New Zealand. Holotype NZGS TM7227; numerous paratypes NZGS.
- † *reticulatum*, *Dentalium* Tournouër in de Boullé, 1873: 466 [40], pl. 6, fig. 13. Eocene, Auversian. Peyrehorade, Adour Basin, southwestern France. Remark: the original description was reprinted by Boussac (1911a: 33).
- reussianum*, *Dentalium* Ryckholt, 1851: 70, 71. Cretaceous: Turonian. Visé, Belgium. Junior synonym of *Dentalium cidaris* Geinitz, 1850 (*vide* Pilsbry & Sharp 1898: 220).
- † *rex*, *Dentalium* Pilsbry & Sharp, 1898: 214. Replacement name for *Dentalium giganteum* Chenu, 1842 non Phillips, 1829.
- rhabdotum*, *Dentalium* Pilsbry, 1905: 116, 117, pl. 5, figs 45-47. Recent. Heda, Izu, Japan. Syntypes ANSP 88319 (2), ANSP A4085 (1). *Striodentalium rhabdotum* (Pilsbry, 1905) (*vide* Okutani 1966: 12). Indo-Pacific: China Sea and Japan to New Caledonia. 61-1350 m. Remark: Scarabino (1995: 240) stated that ANSP 88319 was the "holotype" but there are two syntypes in that lot, so Scarabino's statement does not constitute a valid lectotype designation.
- † *rhenanus*, *Dentalium* R. Janssen, 1978b: 141, pl. 9, figs 4, 5. Oligocene, Chattian. Schacht Diergardt, Rumeln, near Moers, Niederrhein-Gebeit, Germany. Holotype SMF 250385a.
- † *rhodani*, *Dentalium* Pictet & Roux, 1849: 150, 151, pl. 27, figs 13a-13e. Cretaceous. Rhône and Saxonet, France.
- "*rhotomagense*", *Dentalium* - d'Orbigny 1850 (volume 2): 156. Cretaceous, Cenomanian. Rouen, France. Incorrect original spelling of *Dentalium rothomagense*. Remark: Rothomagus was the Latin name of Rouen.
- † *richardsoni*, *Dentalium* Cossmann, 1907b: 172, 173. Jurassic, Pliensbachian. Railway-cutting, Dixton West, near Gotherington, near Cheltenham, England, United Kingdom. Replacement name for *Dentalium acutum* Richardson, 1906 non Hébert, 1849. Objective junior synonym: *Dentalium acutoides* Emerson, 1954. *Laevidentalium richardsoni* (Cossmann, 1907) (*vide* Engeser & Riedel 1992: 37).
- richardsoni*, *Dentalium* Emerson, 1954: 184. Jurassic, Sinemurian. Honeybourne, near Evesham, England, United Kingdom. Replacement name for *Dentalium subquadratum* Richardson, 1906 non Meek, 1860, itself a junior homonym of *Dentalium richardsoni* Cossmann, 1907; replacement name: *Dentalium sabrinae* Engeser & Riedel, 1992.
- † *rigauxi*, *Fustiaria* (*Laevidentalium*) Fischer & Vadet, 1985: 5, pl. 1, figs 8a, 8b. Middle Jurassic, Bathonian. Hydrquent, Pas de Calais, France. Holotype MHN 115. Remark: this species was misidentified as *Dentalium entaloides* Eudes-Deslongchamps, 1842 by Cossmann (1885).
- † *rimosum*, *Dentalium* Böse, 1906: 55, 56, pl. 3, fig. 1. Upper Miocene, Division Rio Coatzacoalcos. Kilometres 123-124 del Ferrocarril de Tehuantepec, Mexico. Holotype UNAM 16374 (*vide* Alencaster Ibarra 1950: 222, fig. 1).
- rioense*, *Dentalium* (*Dentalium*) *texasianum* Henderson, 1920: 29, pl. 2, figs 2, 3. Recent. East

- of Rio de Janeiro, USBF stn 2762, 23°08'S, 41°34'W, 59 fms [108 m]. Holotype USNM 96114. Junior synonym of *Paradentalium americanum* (Chenu, 1843) (*vide* Scarabino 1975: 183).
- † *ripleyanum*, *Dentalium* Gabb, 1860: 393, pl. 69, fig. 48. Cretaceous, Ripley Group. Eufala, Alabama, USA.
- † *robusta*, *Plagioglypta* Detre, 1993: 164, pl. 1. Upper Permian. Bükk Mountains, NE of Nagyvisnó, Hungary.
- robustum*, *Dentalium* Brazier, 1877: 56. Recent. Katow, New Guinea, 8 fms [15 m]. Lectotype AMS C170765 (designated by Ponder & Stanbury 1972: 53); paralectotypes AMS C170766 (3). *Dentalium robustum* Brazier, 1877. Indo-Pacific: New Guinea, northern Australia. 13-3150 m.
- robustum*, *Dentalium* Maurer, 1885: 233, 234, pl. 10, fig. 1. Middle Devonian. Grube Rothe Erde, near Giessen, Germany. Junior homonym of *Dentalium robustum* Brazier, 1877. Replacement name: *Laevidentalium patriciae* Engeser & Riedel, 1992.
- rosea*, *Dentalium dentale* var. Dautzenberg, 1884: 302 [ex Monterosato MS]. Recent. Mediterranean Sea: Gulf of Gabes, Tunisia. Type material not located. Synonym of *Antalis dentalis* (Linnaeus, 1767). Remark: Dautzenberg appears to be the first author to have validated Monterosato's (1878) *nomen nudum*.
- rosea*, *Dentalium vulgaris* var. Bucquoy, Dautzenberg & Dollfus, 1882: 561. Recent. Beach of Saint-Briac, Côtes d'Amor, France. Synonym of *Antalis vulgaris* (Da Costa, 1778).
- rossati*, *Dentalium (Antalis)* Caprotti, 1966: 194-196, fig. 11. Recent. Shiqmona Bay, Haifa, Israel. Holotype and 9 paratypes in MSNM. *Antalis rossati* (Caprotti, 1966). Mediterranean. 3-25 m.
- rossoi*, *Cadulus (Cadulus)* Nicklès, 1979: 62, text-fig. 18, pl. 1, figs IV, V. Recent. Off Cape Vert, Senegal, *Atlantide* stn 10-1-56A, 150-250 m. Holotype and paratypes MNHN. *Cadulus rossoi* Nicklès, 1979. Eastern Atlantic, Africa. 150-250 m.
- † *rothomagense*, *Dentalium* d'Orbigny, 1852 (Index): 59. Cretaceous, Cenomanian. Rouen, France. Emendation of *Dentalium rbotomagense* d'Orbigny, 1850. Remark: Rothomagus was the Latin name of Rouen.
- † *rotundatior*, *Dentalium inaequale* var. Sacco, 1897: 96, pl. 7, figs 74, 75 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Italy (various localities). Syntypes MIGT BS.106.01.024, BS.106.01.025 (*vide* Ferrero Mortara *et al.* 1984: 302).
- † *rotundosimplex*, *Dentalium michelotti* var. Sacco, 1897: 96, pl. 7, figs 91, 92 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Italy (various localities). Syntypes MIGT BS.106.01.040, BS.106.01.041 (*vide* Ferrero Mortara *et al.* 1984: 303).
- † *rotundulina*, *Dentalium michelotti* var. Sacco, 1897: 96, pl. 7, figs 89, 90 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Italy (various localities). Syntypes MIGT BS.106.01.038, BS.106.01.039 (*vide* Ferrero Mortara *et al.* 1984: 302).
- rowei*, *Dentalium (Dentalium)* Lamprell & Healy, 1998: 38, figs 29C, 30C, 33. Recent. 3.2 km NE of Cape Bossut, northern Western Australia, 7-10 m. Holotype WAM 231/94; paratypes WAM 53-93 (1), WAM 67-93 (2; 24°54'S, 113°17.75'E, 13 km NE of Redcliff Point, Bernier Island, Western Australia, 24.7 m), WAM 66-93 (2; 24°52'S, 113°17.5'E, ENE of Redcliff Point, Bernier Island, Western Australia), AMS C201738 (12; Exmouth Gulf, northern Western Australia). *Dentalium rowei* Lamprell & Healy, 1998. Indian Ocean: western Australia. 7-196 m.
- rubescens*, *Dentalium* Deshayes, 1825: 363 [43 in reprint], pl. 16, figs 23-25. Recent. Mediterranean Sea. Syntypes MNHN. Junior synonyms: *Dentalium splendens* O. G. Costa, 1829; *Pseudantalis tenuifissum* Monterosato, 1875; *Dentalium maltzani* Clessin, 1896 (*vide* Pilsbry & Sharp 1897: 106); *Dentalium siculum* Pilsbry & Sharp, 1897 [ex Deshayes MS] (n. syn.). *Fustiaria rubescens* (Deshayes, 1825) (*vide* Emerson 1952c: 204; 1962: 471). Eastern Atlantic, Mediterranean: Europe, North Africa. 4-618 m. Remarks: Scarabino (1995: 282) questioned the record of this species from the Indian Ocean by Ludbrook (1954: 105, 106). *Dentalium rufescens* [Weinkauff, 1868: 420] is an incorrect subsequent spelling.
- rudis*, ?*Dentalium* Gabb, 1873. Not a scaphopod. See Other taxa described as Scaphopoda.
- rudmani*, *Cadulus* Lamprell & Healy, 1998: 164, figs 167E, 168H, 173. Recent. Off Cairns, northern Queensland, Australia, 17°09.42'S, 146°42.24'E, 668 m. Holotype AMS C174626; paratype AMS C173407 (1). *Cadulus rudmani* Lamprell & Healy, 1998. Known from the type locality only.
- rudoi*, *Paradentalium* Scarabino, 1995: 219, 220, figs 27, 28j, l. Recent. Northeastern Madagascar, RV *Vauban* 12°39'S, 48°17'E, 240 m. Holotype MNHN; paratypes MNHN (6 from the type locality; 3 from BENTHEDI stn DS72, 12°71'S, 45°02'E, 300-350 m), NM (1). *Paradentalium rudoi* Scarabino, 1995. Indian Ocean: Madagascar. 240-350 m.
- rufescens*, see *rubescens*.
- † *rugiferum*, *Dentalium* Koenen, 1885: 71, 72, pl. 3, fig. 18. Paleocene. Near Copenhagen, Denmark. Junior synonym: *Dentalium imparcostata* Nechaev, 1897 (*vide* Makarenko 1970: 113). Remark: a valid species of *Dentalium* (*vide* Makarenko 1970: 113).
- ruginosa*, *Dentalium dentalis* var. "Monterosato" *vide* Stork 1934: 5. No further information located; potentially a *nomen nudum*.
- † *rugosum*, *Dentalium* Dunker, 1849: 16, 17. Cretaceous. Near Cassel, Germany. Unnecessary replacement name: *Dentalium dunkeri* Sharp & Pilsbry in Pilsbry & Sharp, 1898: 221, 222.
- rugosum*, *Dentalium* Müller, 1851. Not a scaphopod. See Other taxa described as Scaphopoda.

- rugosum*, *Dentalium* Eichwald, 1857: 584 [1860: 1063, 1064, pl. 40, fig. 8]. Carboniferous ["Berglehme"]. Near Dorf Sloboda, Tula [Toula], Russia. Junior homonym of *Dentalium rugosum* Dunker, 1849 and *D. rugosum* Müller, 1851. Remarks: Eichwald (1860: 1063) erroneously dated this name to Eichwald (1846: 425), which is actually a citation for *Dentalium rectiusculum* Eichwald; Pilsbry & Sharp (1898: 232) repeated this error. If future studies confirm the validity of this species it needs to be renamed.
- rugosum*, *Dentalium* Spillman, 1860: 389. *Nomen nudum*. Cretaceous (Green Sand). Tombigbee, Mississippi, USA.
- rugosum*, *Entalium* Defrance, 1819b. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *runnegari*, *Scissuradentalium* Yoo, 1988: 249, figs 144-147. Early Carboniferous, Late Tournaisian, Dangarfild Formation. Locality A-3, 2.6 km SW of Gundy, Upper Hunter, New South Wales, Australia. Holotype AMS F.61994; paratypes AMS F.61995 (8).
- † *rupeliensis*, *Gadila* R. Janssen, 1989: 88, 89, pl. 2, fig. 17. Middle Oligocene, Rupelian, Boom Clay Formation. Herselt (Tongrube 400 m N of Kirche von Ramsel), Antwerpen Province, Belgium. Holotype RGM 221152a; paratypes RGM 221152b; RGM 220907/1; SMF.
- rushii*, *Cadulus* (*Gadila*) Pilsbry & Sharp, 1898: 168, pl. 27, figs 94-97. Recent. Off Cape Hatteras [North Carolina], 35°19'30"N, 75°17'12"W, 293 fms [535 m]. Syntypes ANSP 35579 (1), ANSP 333440 (1). Junior synonym: *Polyschides rushii arne* (Henderson, 1920). *Polyschides rushii* (Pilsbry & Sharp, 1898) (*fide* Emerson in Turgeon 1998: 55). Western Atlantic: Canada to North Carolina (USA). 210-1934 m.
- † *rutteni*, *Dentalium* Martin, 1917: 262, pl. 4, fig. 91. Miocene. Kembang Sokkoh, Java, Indonesia. Syntypes RGM 7256 (3), RGM 7257 (14), RGM 47284 (2) (*fide* Van den Hoek Ostende *et al.* 2002: 112).
- † *sabriniae*, *Dentalium* Engeser & Riedel, 1992: 38, 39, 41. Jurassic, Sinemurian. Honeybourne, near Evesham, England, United Kingdom. Replacement name for *Dentalium richardsoni* Emerson, 1954 non Cossmann, 1907. Remark: Engeser & Riedel (1992: 39) stated that "The generic assignment is unclear. It probably belongs to a new genus".
- † *saccoi*, *Cadulus taurovulum* subsp. Pavia, 1991: 133-137, pl. 9, figs 1-5, 7, 8; table 2; text-fig. 6. Upper Miocene. Borelli, near Turin, Italy. Holotype and 218 paratypes MIGT B-S.D.02.1. Remark: Sacco (1897: 115) misidentified this species as *Cadulus ovulus* Philippi.
- † *sacheri*, *Dentalium* Alth, 1850: 226, pl. 12, fig. 2. Cretaceous. Lviv [Lemberg], Ukraine. Holotype NHM 1862/0005/0251.
- sagamiensis*, *Gadila* Kuroda, Habe & Oyama, 1971: 495 [in Japanese], 312 [in English], pl. 65, figs 14-17 (as a *nomen nudum* in Habe 1953: 298; 1963: 276; Okutani 1964: 79). Recent. Sagami Bay, Japan, 400-740 m. Holotype and 3 paratypes in Imperial Household Biological Laboratory (Japan). *Gadila sagamiensis* Kuroda, Habe & Oyama, 1971. Indo-Pacific: Japan. 400-780 m.
- sagei*, *Striocadulus* Scarabino, 1995: 335, 336, figs 137, 139 d, e, 172c, d. Recent. Philippines, RV *Coriolis* MUSORSTOM 2 stn CP24, 13°37'S, 120°42'E, 640-647 m. Holotype and 4 paratypes MNHN. *Striocadulus sagei* Scarabino, 1995. Indo-Pacific: Indonesia, Philippines. 550-800 m.
- † *sagittarii*, *Dentalium* Pilsbry & Johnson, 1917: 185. Oligocene. Dominican Republic. Holotype ANSP 652. Remark: figured by Pilsbry (1922: 400, pl. 18, fig. 12).
- sakurarii*, *Platyschides* Kuroda & Habe *in* Habe, 1961: 105, pl. 47, fig. 3. Recent. Off Choshi, Chiba Pref., Honshu, Japan, 100-200 m. Holotype and paratype in NSMT. *Polyschides sakurarii* (Kuroda & Habe *in* Habe, 1961) (*fide* Habe 1963: 278). Indo-Pacific: Japan. 100-1400 m. *Platyschides sakurarii* [Okutani, 1966: 14] is an incorrect subsequent spelling.
- † *salicensis*, *Cadulus* Seguenza, 1879: 276. Pliocene. Reggio, Calabria, Italy.
- salishorum*, *Pulsellum* Marshall, 1980: 149-152, figs 1-6. Recent. East Sound, Orcas Island, San Juan Islands, Puget Sound, Washington, 48°36'N, 122°51'W, 18-22 m [lower limit probably in error as the holotype is from 27 m]. Holotype USNM 782263; paratypes USNM 782264 (6), ANSP 352474 (4), AMNH 198610 (6), LACM 1929 (6), NMC 86068 (4), WSM 35663 (4). *Pulsellum salishorum* Marshall, 1980. Eastern Pacific, Canada, USA. 3-91 m.
- salpinx*, *Dentalium* (*Fissidentalium*) Tomlin, 1931: 338, 339, text-fig. Recent. Off Cape Point, South Africa, 700-800 fms [1278-1460 m]. Lectotype SAFM A5459 (designated by Giles & Gosliner 1983: 40); paralectotypes NMW (9). *Fissidentalium salpinx* (Tomlin, 1931). South Africa. 1260-1462 m.
- † *samanicum*, *Dentalium* Berry, 1926: 19, figs 3, 4. Eocene, Saman shale. Negritos, Peru.
- † *sandbergeri*, *Dentalium* Bosquet, 1859: 20, 21, pl. 2, figs 7a-7d. Tertiary (Eocene?). Limburg, Netherlands. Remark: Deshayes (1861: 215) recognized that *Dentalium fissura* sensu Nyst (1836: 180) non Lamarck, 1818 was equivalent to *Dentalium sandbergeri*.
- † *sangiorgii*, *Dentalium* Emerson, 1954: 184. Pliocene. Ponticella di Savena, near Bologna, Italy. Replacement name for *Antale dentale* var. *alternans* Sangiorgi, 1926 [ex Berti MS] non *Dentalium alternans* Chenu, 1843 nec Müller, 1851 nec Ryckholt, 1851 nec Bucquoy, Dautzenberg & Dollfus, 1882. *Antalis sangiorgii* (Emerson, 1954) (*fide* Caprotti 1979: 237).
- † *santarosanum*, *Dentalium* Maury, 1910: 151, pl. 8, fig. 6. Oligocene. Oak Grove, Santa Rosa County,

- Florida, USA. Syntype USNM Paleobiology 639095 (1).
- † *saturni*, *Dentalium* Hoeninghaus, 1836a: 1, pl. 1 [*nomen nudum* in Hoeninghaus 1836b: 12]. “Übergangskalk”, Gerolstein, Eifel Mountain, Germany [Devonian]. Remarks: this species has been attributed to Goldfuss, 1841 by most authors, who concluded that Goldfuss had validated a manuscript name of Hoeninghaus (1836b: 12). However, Langer (1967: 137) has shown that the species was first validated by Hoeninghaus (1836a), in a lithographed publication, which included an illustration of the holotype. It remains to be determined whether Goldfuss’ concept of this species is equivalent to that of the original description in Hoeninghaus (1836a). Yochelson & Holland (2004) concluded that the supposed “holotype” of Goldfuss’ name was not the type specimen, and that the description of this species was too imprecise to allow determination. We do not follow their conclusion that this is probably not a scaphopod until the problem with the type is solved.
- † *saucaisense*, *Dentalium* Benoist, 1873: 423, 460 [239, 276]. Miocene, Helvetian. Sime, France. Remark: this species was misidentified as *Dentalium pseudoantalis* Lamarck, 1818 by Benoist (1873: 268 [84]); see Cossmann & Peyrot (1917: 165) for further discussion.
- sauridens*, *Cadulus* Watson, 1879: 525, 526 [Watson 1886: 19, pl. 3, fig. 4]. Recent. West Indies, Culebra Island, *Challenger* stn 24, 18°38’30”N, 65°05’30”W, 390 fms [712 m]. Holotype BMNH 1887.2.9.76. *Gadila sauridens* (Watson, 1879) (*vide* Pilsbry & Sharp 1898: 173). Western Atlantic, Caribbean. 650-712 m. Remark: BMNH 1994044 is also labelled “holotype”, obviously in error as the description referred to a single specimen.
- scamnatum*, *Dentalium* Locard, 1897b: 10 [*ex Fischer* MS] [Locard, 1898: 109, 110, pl. 7, figs 1-7]. Recent. “Côtes occidentales d’Afrique, cap Ghir, les Açores, mer des Sargasses entre 1235 et 2087 mètres”. Syntypes MNHN. Junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877) (B. Métyvier, n. syn.).
- scarabinoi*, *Cadulus* n. nom. Recent. New Caledonia, Bassin des Loyauté, RV *Coriolis* BIOGEOCAL stn CP232, 21°34’S, 166°27’E, 760-790 m. Holotype MNHN; paratypes MNHN (3 from CP232; 1 from CP75; 2 from DW106). Replacement name for *Cadulus martini* Scarabino, 1995 non *Cadulus martini* Finlay, 1927. *Cadulus scarabinoi* Steiner & Kabat, 2004. Indo-Pacific: Réunion Island to New Caledonia. 625-3500 m.
- scarabinoi*, *Dentalium* n. nom. Recent. Chesterfield Islands, Mer de Corail, Banc Nova, RV *Coriolis*, MUSORSTOM 5. stn DW 301, 22°07’S, 159°25’E, 478-610 m. Holotype MNHN; paratypes MNHN (10; 1 from stn 301; 1 from stn DW 306; 1 from stn LAGON 444; 2 from stn DW 72; 1 from stn DW 38; 1 from stn DW 01; 1 from stn DW 05; 1 from stn DW 478; 1 from stn DW 479), AMS C201722 (1; stn DW 479), NMNZ M268960 (1; stn DW 479). Replacement name for *Dentalium flavum* Scarabino, 1995 non *Dentalium flavum* Henderson, 1920. *Dentalium scarabinoi* Steiner & Kabat, 2004. Indo-Pacific: Chesterfield Islands (Coral Sea); New Caledonia. 300-610 m.
- † *schafferi*, *Dentalium* Gugenberger, 1934: 45, pl. 1, fig. 9 [*nomen nudum* in Gugenberger 1933a: 102; 1933b: 184]. Triassic. N of Launsdorf, Austria.
- † *schencki*, *Dentalium* (*Rhabdus*) Moore, 1963: 51, pl. 31, fig. 3. Miocene, Astoria Formation. Spencer Creek, Oregon, USA. Holotype USNM Paleobiology 563335.
- † *schlosseri*, *Dentalium* Traub, 1938: 65, pl. 5, fig. 8. Cretaceous/Tertiary. Rupertiwinkel, N of Salzburg, Austria.
- † *schumoi*, *Dentalium* Pilsbry, 1911: 167, 168, fig. 5 [*nomen nudum* in Pilsbry & Sharp 1898: 254]. Miocene. Bowden, Jamaica. Syntype ANSP 653.
- scoticum*, *Dentalium* Kirkby, 1880: 563, 589 [*ex Young* MS]. *Nomen nudum*. Carboniferous. Near St Andrews, Scotland, United Kingdom.
- † *sectiforme*, *Dentalium* (*Graptacme*) Tate, 1899: 262, 263, pl. 8, figs 6-6a. Miocene. Muddy Creek, Victoria, Australia. Holotype and 5 paratypes SAM T 1615A. *Dentalium* (*Antialis*) *sectiforme* Tate, 1899 (*vide* Ludbrook 1959: 143, pl. 2, fig. 5).
- sectum*, *Dentalium* Deshayes, 1825: 367, 368 [47, 48], pl. 18, figs 12-14. Recent. “Habitat in mari Indico” [Indian Ocean]. Syntypes MNHN. Junior synonym: *Dentalium diffusum* Chenu, 1850 (*vide* Pilsbry & Sharp 1897: 96). *Graptacme secta* (Deshayes, 1825) (*vide* Pilsbry & Sharp 1897: 96). Geographical range unknown. Remark: the citation by Keen (1971: 886) from the “Gulf of California” was in error (*vide* Keen & Coan 1975: 49 citing W. K. Emerson *in litt.*).
- sedecimcostatum*, *Dentalium* Boissevain, 1906: 33, pl. 6, figs 8-11. Recent. Banda Sea, Indonesia, *Siboga* stn 52, 09°03.4’S, 119°56.7’E, 959 m. Lectotype ZMA 3.06.035 (designated by Scarabino 1995: 260); paralectotypes ZMA 3.06.034 (1; stn 45, 07°24’S, 118°15.2’E, 794 m), ZMA 3.06.036 (8), ZMA 3.06.037 (1; stn 88, 00°34.6’N, 119°8.5’E, 1301 m), ZMA 3.06.038 (1; stn 156, 00°29.2’S, 130°5.3’E, 469 m), ZMA 3.06.039 (1; stn 178, 02°40’S, 128°37.5’E, 835 m), ZMA 3.06.040 (1; stn 223, 05°44.7’S, 126°27.3’E, 4391 m), ZMA 3.06.041 (1; stn 241, 04°24.3’S, 129°49.3’E, 1570 m), ZMA 3.06.042 (8, *vide* R. Moolenbeek & A. N. Van der Bijl *in litt.* 23.VI.2000; stn 300, 10°48.6’S, 123°23.1’E, 918 m), ZMA 3.06.043 (1; stn 314, 07°36’S, 117°30.8’E, 694 m). *Compressidentalium sedecimcostatum* (Boissevain, 1906) (*vide* Habe & Kosuge 1964: 4). Indo-Pacific: East Africa to New Caledonia and China Sea. 250-4391 m. Remark:

- Lamprell & Healy (1998: 87) listed this species as a junior synonym of *C. clathratum* (von Martens, 1881) (as *Fissidentalium*), an opinion rejected by Scarabino (1995).
- † *sequenzianus*, *Cadulus* (*Gadila*) Moroni & Ruggieri, 1980: 49, 50, text-figs 3a, 3b, 4. Upper Miocene. Near Bonfornello, Palermo, Sicily, Italy. Holotype and paratype Museo di Geologia della Università di Palermo.
- † *semarangense*, *Dentalium* Altena, 1938: 211. Miocene. Ngembak and Grisee, Java, Indonesia. Syntypes RGM 7239 (1), RGM 7240 (1), RGM 7238 (1), RGM 7241 (1) (*vide* Van den Hoek Ostende *et al.* 2002: 112). Replacement name for *Dentalium subrectum* Martin, 1885 *non* Jeffreys, 1883. Junior synonym of *Dentalium teschi* Koperberg, 1931. Remark: see under *Dentalium subrectum* Martin, 1885.
- † *semialternans*, *Dentalium* Chenu, 1843: pl. 4, fig. 7; 1850: 7. Type locality not specified (presumably Tertiary, *vide* Pilsbry & Sharp 1898: 215).
- † *semiaratum*, *Dentalium* Chapman & Crespin, 1928: 105, 106, pl. 6, fig. 28. Tertiary. Victoria, Australia.
- † *semiclausum*, *Dentalium* Nyst, 1835: 36, pl. 5, fig. 53. Tertiary. Near Antwerp, Belgium.
- † *semicostatum*, *Dentalium* Girty, 1911: 135. Carboniferous, Pennsylvanian. USGS Locality 2006, Wewoka Formation, Wewoka quadrangle, Oklahoma, USA. Junior synonym: *Dentalium indianum* Girty, 1911 (*vide* Yancey 1978: 308, by First Reviser action). *Pro dentalium semicostatum* (Girty, 1911) (*vide* Yancey 1978: 308). Remark: Yancey (1978) erroneously dated this species to its redescription in Girty (1915), not to its original description in 1911.
- † *seminuda*, *Dentalium* (*Antale*) *ravicostatum* "race" Cossmann & Peyrot, 1917: 168, pl. 1, figs 29-31. Miocene, Tortonian. Saint-Jean-de-Marsacq, France.
- † *seminudum*, *Dentalium* Deshayes, 1861: 200, 201, pl. 3, figs 11-14. Eocene. Paris Basin (Jeures and Ormoy), France; Kaufingen, Drausfeldt and near Cassel, Germany.
- semipolium*, *Dentalium* Broderip & Sowerby, 1829: 369. Recent. Type locality not specified [Eastern Pacific, California]. Syntypes BMNH 1950.11.8.1-3. Junior synonym of *Graptacme semistriata* (Turton, 1819) (*vide* Pilsbry & Sharp 1897: 91). Remarks: Emerson *in* Turgeon (1998: 54) listed *Graptacme semipolita* as a distinct species; further study of the taxonomy of these species is needed.
- semistriatum*, *Dentalium* Turton, 1819: 39, pl. 18, fig. 68. Recent. Near the Pigeon-House, Dublin Bay, Ireland [in error]. Syntype USNM 175006 (1). Junior synonyms: *Dentalium semipolium* Broderip & Sowerby, 1829; *Dentalium semistriolatum* Guilding, 1834; *Dentalium translucidum* Chenu, 1843; *Dentalium hyalinum* Philippi, 1846; *Dentalium liratum* Carpenter, 1857b; *Dentalium lirulatum* Mörch, 1861 (*vide* Pilsbry & Sharp 1897: 90, 91); *Dentalium sericatum* Dall, 1881 (*vide* Scarabino 1994: 307); *Dentalium hannai* Baker, 1925 (*vide* Keen 1971: 886). *Graptacme semistriata* (Turton, 1819) (*vide* Pilsbry & Sharp 1897: 90). Western Atlantic, Caribbean: Bermuda to Brazil; Eastern Pacific: California. 3-164 m. Remarks: Warén (1983: 169) erroneously stated that the type material was lost. Since Jeffreys could not determine the origin of this species, Warén also stated that "I regard the name as a *nomen dubium*". The alleged occurrence of this species in both the Caribbean and the Eastern Pacific may represent a case of sibling species. The second specimen mentioned in the original description was not located.
- semistriatum*, *Dentalium* Deshayes, 1825: 367, pl. 17, figs 15, 16. Eocene. Parnes, Chaumont, Mouchy and Senlis, Paris Basin, France. Junior homonym of *Dentalium semistriatum* Turton, 1819. Replacement name: *Dentalium parisiensis* d'Orbigny, 1850.
- semistriatus*, *Cadulus* Jeffreys, 1880: 317. Recent. Bay of Biscay. *Nomen nudum*.
- semistriolatum*, *Dentalium* Guilding, 1834: 34, pl. 3, figs 1-5. Recent. Caribbean. Type material not located. Junior synonym of *Graptacme semistriata* (Turton, 1819) (*vide* Pilsbry & Sharp 1897: 90). Remarks: Emerson *in* Turgeon (1998: 54) listed *Graptacme semistriolata* as a distinct species; further study of the taxonomy of these species is needed.
- semitracheatum*, *Dentalium* (*Plagioglypta*) Boissevain, 1906: 56, pl. 4, figs 20, 21. Recent. Timor Sea, *Siboga* stn 284, 08°43.1'S, 127°16.7'E, 828 m. Lectotype ZMA 3.06.072 (designated by Scarabino 1995: 273); paralectotypes ZMA 3.06.070 (7, *vide* R. Moolenbeek & A. N. Van der Bijl *in litt.* 23.VI.2000; Flores Sea, *Siboga* stn 45, 7°24'S, 118°15.2'E, 794 m), ZMA 3.06.071 (1; not mentioned in the text but illustrated on plate 4, figs 20, 21; "St. 248" in caption was error for 284, *vide* R. Moolenbeek & A. N. Van der Bijl *in litt.* 23.VI.2000), ZMA 3.06.073 (2; Timor Sea, *Siboga* stn 300, 10°48.6'S, 123°23.1'E, 918 m), ZMA 3.06.074 (1 [2 in error in original description]; Flores Sea, *Siboga* stn 314, 7°36'S, 117°30.8'E, 694 m). Junior synonym: *Dentalium curvotracheatum* Plate, 1908 (*vide* Scarabino 1995: 273).
- Calliodentalium semitracheatum* (Boissevain, 1906) (*vide* Scarabino 1995: 273). Indo-Pacific: Madagascar to Philippines. 450-918 m.
- semivestitum*, *Dentalium* Locard, 1897b: 9, 10 [ex Fischer MS] [1898: 107, pl. 6, figs 25-29]. Recent. "Les Tropiques et le Sahara entre 830 et 1113 mètres". Syntypes MNHN (*Talisman* stn 85, "Sahara", 830 m). *Fissidentalium semivestitum* (Locard, 1897) (*vide* Pilsbry & Sharp 1897: 75). Eastern Atlantic: Europe, Africa. 800-1113 m.
- senegalense*, *Dentalium* Dautzenberg, 1891: 53, 54, pl. 3, fig. 8. Recent. Dakar, Senegal, *Mélita* Exp. stn 99, 5 m. Type material not located. *Antalis*

- senegalensis* (Dautzenberg, 1891) (*vide* Pilsbry & Sharp 1897: 55). Eastern Atlantic: Senegal to Guinea. 5–41 m.
- senegalensis*, *Cadulus* Locard, 1897a: 3, 4. Recent. Senegal. Holotype MNHN. *Gadila senegalensis* (Locard, 1897) (*vide* Pilsbry & Sharp 1898: 176). Known from the type locality only. Remark: type locality subsequently cited as *Talisman* 1883 stn 101, 3200 m, by Locard (1898: 133).
- septangulare*, *Dentalium* Fleming, 1825. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *septemcostata*, *Dentalium* (Antale “?”) *taurocostatum* var. Sacco, 1897: 102, pl. 8, fig. 58 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.02.050 (*vide* Ferrero Mortara *et al.* 1984: 305).
- septemcostatum*, *Dentalium* Abich in Trautschold, 1859. Not a scaphopod. See Other taxa described as Scaphopoda.
- septemcostatum*, *Dentalium* Brazier, 1877: 57. Recent. Evan’s Bay, Cape York, Queensland, Australia, 6 fms [11 m]. Lectotype AMS A96 (designated by Ponder & Stanbury 1972: 53); paralectotypes AMS (3). Junior homonym of *Dentalium septemcostatum* Abich, 1859. Replacement name: *Dentalium cheverti* Sharp & Pilsbry in Pilsbry & Sharp, 1897.
- septemcostatum*, *Dentalium coarti* var. Dautzenberg, 1912: 81. Recent. Wharf de Tamara, Guinea. Type material MNHN. Junior homonym of *Dentalium septemcostatum* Abich, 1859. Junior synonym of *Dentalium congoensis* (Plate, 1908a) (*vide* Nicklès 1979: 44).
- septentrionalis*, *Antalis* Kuroda & Habe in Habe, 1963: 262, 263, pl. 38, fig. 34, text-figs 15–17 [*nomen nudum* in Habe 1953: 294, as “*Dentalium (Dentalium) septentrionale*”, and in Taki & Oyama 1954: 30, pl. 7, figs 19–21, pl. 26, fig. 6]. Recent. Off Hachinoe, Aomori Pref., Honshu, Japan, 30 m. Lectotype NSMT (designated by Oyama 1973: 72, pl. 20, figs 7, 11, 14); paralectotype NSMT. Junior synonym of *Antalis weinkauffi* (Dunker, 1877) (*vide* Habe 1964: 20).
- † *seriaeforme*, *Siphonodentalium* Ravn, 1939: 48, 49, pl. 1, figs 18a, 18b. Paleocene. Vestre Gasvaerk VI, near Copenhagen, Denmark.
- sericatum*, *Dentalium* Dall, 1881: 37, 38. Recent. Off Yucatan Bank, Blake (no stn given), 640 fms [1168 m]. Holotype USNM 203191. Known from the type locality only. Junior synonym of *Graptacme semistriata* (Turton, 1819) (*vide* Scarabino 1994: 307).
- serratum*, *Dentalium* Pictet & Roux, 1849. Not a scaphopod. See Other taxa described as Scaphopoda.
- serratum*, *Dentalium* Martin, 1885: 189, pl. 10, fig. 189; 1887: 189, 190, pl. 10, fig. 189. Miocene. Grissee, Java, Indonesia. Holotype RGM 7270 (*vide* Van den Hoek Ostende *et al.* 2002: 112). Junior homonym of *Dentalium serratum* Pictet & Roux, 1849 (Polychaeta); replacement name: *Dentalium subserratum* Palmer, 1974.
- serrulatum*, *Dentalium* E. A. Smith, 1906: 249. Recent. Andaman Island, Bay of Bengal, 60 fms [110 m]. Syntypes ZSI M877/1 (*vide* list in BMNH); BMNH 1906.10.12.4. *Fissidentalium serrulatum* (E. A. Smith, 1906) (*vide* Scarabino 1995: 250). Indo-Pacific: Andaman Islands to Philippines. 96–182 m.
- sewelli*, *Dentalium (Episiphon)* Ludbrook, 1954: 107, fig. 10. Recent. Gulf of Oman, John Murray Exp. stn 75, 25°09′–10′N, 56°47′30″E, 201 m. Holotype BMNH 1952.3.25.125; paratypes BMNH 1952.3.25.73 (1; stn MBII(c), Hadramut Coast, 17°33′30″N, 56°01′30″E, 29 m), BMNH 1952.3.25.236–BMNH 1952.3.25.236.242 (5; stn 188, Gulf of Aden, 13°43′–46′N, 47°50′–56′E, 528 m), BMNH 1952.3.25.243 (1; stn 103, Zanzibar Area, 05°39′30″S, 39°11′30″E, 101 m), BMNH 1952.3.25.244–BMNH 1952.3.25.244.250 (6). Junior synonym of *Episiphon subtorquatum* (Fischer, 1871) (*vide* Scarabino 1995: 286).
- sexangulare*, *Dentalium* Lamarck, 1818: 344. Italy. Remark: the original description tentatively listed this name as a synonym of *Dentalium sexangulum* Gmelin, 1791.
- sexangulare*, *Dentalium* “n. sp.?” Hilgard & Hopkins, 1878: 48, pl. 3, fig. 7. Quaternary. Lake Borgne, Louisiana, USA. Junior homonym of *Dentalium sexangulare* Lamarck, 1818. Oldest available name: *Dentalium gouldii* Dall, 1889 (*vide* Pilsbry & Sharp 1897: 21).
- † *sexangulum*, *Dentalium* Gmelin, 1791: 3739 [citing Schröter 1784a: 531 n. 10]. Pliocene. Laretto, Italy. Junior synonyms: *Dentalium sexangulare* Lamarck, 1818 (tentatively in the original description); *Dentalium inaequale* Bronn, 1831 (*vide* Bernasconi 1996: 26, as synonym of *D. orsum*); *Dentalium orsum* Bonelli in Sismonda, 1842 (*vide* Sismonda 1847: 24; Pilsbry & Sharp 1898: 205); *Dentalium noe* Sismonda, 1847 (tentatively, *vide* Pilsbry & Sharp 1898: 215); *Dentalium sexangulare* var. *acutangularis*, and var. *subrecta* Cocconi, 1873 (*vide* Pilsbry & Sharp 1898: 215).
- sexcarinatum*, *Dentalium* Goldfuss, 1841. Not a scaphopod. See Other taxa described as Scaphopoda.
- sexcostatum*, *Dentalium* Sowerby, 1860: 103, pl. 223, fig. 11. Recent. Type locality not specified. Holotype BMNH 1996084. Junior synonym of *Paradentalium hexagonum* (Gould, 1859) (*vide* Scarabino 1995: 218). Remark: The synonymization of *Paradentalium hexagonum* with this species by Scarabino (1995) was not followed by Lamprell & Healy (1998: 58).
- † *sexdecimcostata*, *Dentalium* (Antale “?”) *dentale* var. Sacco, 1897: 105, pl. 8, figs 74, 75 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. Italy (various localities). Syntypes MIGT BS.106.02.065,

- BS.106.02.066 (*vide* Ferrero Mortara *et al.* 1984: 306).
- sxeradiatum*, *Dentalium* Goldfuss – Pilsbry & Sharp 1898: 244. Not a scaphopod. See Other taxa described as Scaphopoda.
- shirleyae*, *Fissidentalium* Lamprell & Healy, 1998: 84, figs 82B, 83B, 85, 86A, B. Recent. SW of Imperieuse Reef, Rowley Shoals, 250 km NNW of Western Australia, 18°06'S, 118°10'E, 356 m. Holotype WAM 234/94; paratypes AMS C201740 (2, *ex* WAM 4340.83), QM MO52532 (1, *ex* WAM 4340.83), WAM 4304.83 (38), WAM 119-93 (1; 220 km NW of Port Hedland, Western Australia, 18°44'S, 117°20'E, 326 m). *Fissidentalium shirleyae* Lamprell & Healy, 1998. Indo-Pacific: Western Australia. 326-356 m.
- shoplandi*, *Dentalium* Jousseau, 1894: 102. Recent. 50 miles from Aden, 670 fms [1223 m]. Lectotype MNHN (designated by Ludbrook 1954: 100, as "holotype"). Junior synonyms: *Dentalium transversostriatum* Boissevain, 1906; *Dentalium chuni* Plate, 1908a (*vide* Scarabino 1995: 248). *Fissidentalium shoplandi* (Jousseau, 1894) (*vide* Plate 1908a: 341, as *Dentalium* (*Fissidentalium*) *chuni*). Indo-Pacific: Red Sea to New Caledonia. 528-1350 m.
- siberutense*, *Dentalium* Plate, 1908a: 348, pl. 30, figs 17-20. Recent. Siberut Islands, Indonesia, *Valdivia* stn 191, 00°39'S, 98°52'E, 750 m. Holotype ZMB 61093 (*vide* Kilias 1995: 176). Junior synonym of *Entalinopsis intercostata* (Boissevain, 1906) (*vide* Scarabino 1995: 305).
- siberutensis*, *Cadulus* (*Cadulus*) Jaekel, 1932: 309, 310, fig. 7. Recent. Siberut Islands, Indonesia, *Valdivia* stn 191, 00°39.2'S, 98°52.3'E, 750 m. Lectotype ZMB 75368a (designated by Kilias 1995: 176); paralectotypes ZMB 75368b (2), ZMB 75369 (48). *Cadulus siberutensis* Jaekel, 1932. Known from the type locality only.
- sibogae*, *Dentalium* (*Fissidentalium*) Boissevain, 1906: 39, pl. 4, figs 17, 18, text-fig. 22. Recent. Indonesia, *Siboga* stn 159, 00°59.1'S, 129°48.8'E, 411 m. Holotype ZMA 3.06.048. *Compressidentalium sibogae* (Boissevain, 1906) (*vide* Scarabino 1995: 264). Indo-Pacific: Indonesia, Japan. 200-411 m.
- † *siciliensis*, *Dentalium sexangulare* var. Brugnone, 1880: 132. Pliocene. Caltanissetta and Altavilla, Italy. Junior synonym of *Dentalium sexangulum* Gmelin, 1791 (*vide* Bellini 1909: 221).
- siculum*, *Dentalium* (*Laevidentalium*) Pilsbry & Sharp, 1897: 107, pl. 19, fig. 6 [*ex* Deshayes MS]. Recent. Adriatic Sea and Ionian Islands. Type material not located. Replacement name for *Dentalium politum* "Linnaeus" *sensu* O. G. Costa 1850: 23 (non *politum* Linnaeus, 1767). Junior synonym of *Fustaria rubescens* (Deshayes, 1825) (n. syn.).
- sigsbeanum*, *Dentalium* Dall, 1881: 38. Recent. Yucatan Strait, 640 fms [1168 m]. Lectotype MCZ 7737 (designated by Turner 1955: 319 as "holotype"); paralectotype USNM 95347 (1). Junior synonym of *Bathosiphus ensiculus* (Jeffreys, 1877) (*vide* Dall 1889: 428).
- † *simile*, *Dentalium* Wissmann, 1841: 91, pl. 9, fig. 8. Triassic. St Cassian, Tirol, Austria/Italy. Remark: *Dentalium simile* – Laube 1870 *non* Wissmann, 1841 is a misidentified *Orthoceras* (*vide* Broili 1907: 22).
- simile*, *Dentalium* Biondi, 1859: 120, pl. 1, fig. 6. Recent. Sicily, Italy. Type material not located. Junior homonym of *Dentalium simile* Wissmann, 1851. Junior synonym of *Antalis dentalis* Linnaeus, 1758 (*vide* Pilsbry & Sharp 1897: 53).
- simile*, *Dentalium* Read in Broili, 1907: 71, 72, pl. 6, fig. 4. Triassic, Carnian, Seiser Alp, Tirol, Austria. Non *Dentalium simile* Wissmann, 1841 *nec* Biondi, 1859; replacement name: *Dentalium readi* Emerson, 1954.
- simillimus*, *Cadulus* Watson, 1879: 526, 527 [Watson 1886: 20, pl. 3, fig. 6]. Recent. Raine (sic) Island, Cape York, Queensland, Australia, *Challenger* stn 185, 11°35'S, 144°03'E, 155 fms [284 m]. Lectotype BMNH 1887.2.9.80/1 (designated by Lamprell & Healy 1998: 161); paralectotypes BMNH 1887.2.9.80/2 (2; *Challenger* stn 185). *Cadulus simillimus* Watson, 1879. Indo-Pacific: Australia to New Caledonia. 5-1646 m. Remark: Lamprell & Healy (1995: 161, 162) explained that the second syntype lot, BMNH 1887.2.9.81 (*Challenger* stn 187), was erroneously labeled as containing the figured specimen, and is instead *Cadulus vincentianus* Cotton & Godfrey, 1940.
- † *simplex*, *Dentalium* Michelotti, 1861: 136, pl. 12, figs 12, 13. Lower Miocene. Dego, Mioglia, Pareto, Italy. *Laevidentalium simplex* (Michelotti, 1861) (*vide* Bonci *et al.* 2000: 207, 208, pl. 1, fig. 3).
- simplex*, *Dentalium* (*Compressidens*) Pilsbry & Sharp, 1897: 125, 126, pl. 27, figs 88, 89. Recent. Off Tillamook Harbor, Oregon, USBF 3346, 786 fms [1434 m]. Syntypes USNM 107700, USNM 600414. Junior homonym of *Dentalium simplex* Michelotti 1861. Replacement name: *Compressidens stearnsii* (Pilsbry & Sharp, 1898).
- † *simplicior*, *Dentalium* (*Entalis*) *taurostriata* var. Sacco, 1897: 109, pl. 9, figs 53, 54 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntypes MIGT BS.106.03.028, BS.106.03.029 (*vide* Ferrero Mortara *et al.* 1984: 308).
- simpsoni*, *Cadulus* (*Platyschides*) Henderson, 1920: 127, 128, pl. 19, fig. 17. Recent. Mayaguez Roadstead, Puerto Rico, USBF stn 6062, 25 fms [46 m]. Holotype USNM 161580; paratypes USNM 314677, USNM 314932, AMNH 148357 (1). *Cadulus simpsoni* Henderson, 1920. Western Atlantic, Caribbean. 46-575 m. Remark: the subgenus *Platyschides* was put in synonymy with *Gadila* by Scarabino (1995: 196, 355). However, this species has its maximum diameter not in the anterior third of the shell as it is characteristic for *Gadila*,

- but in the middle of the shell as it is typical for *Cadulus*.
- † *simrothi*, *Cadulus* Pilsbry, 1911: 168, 169, fig. 4. Miocene. Bowden, Jamaica. Syntype ANSP 650. As a *nomen nudum* in Pilsbry & Sharp 1898: 238.
- singaporensis*, *Cadulus* (*Gadila*) Sharp & Pilsbry in Pilsbry & Sharp, 1898: 195, pl. 36, figs 30, 31. Recent. Singapore. Syntypes ANSP 35584 (4), ZMA 2.98.001 (2). *Gadila singaporensis* (Sharp & Pilsbry in Pilsbry & Sharp, 1898). Known from the type locality only.
- sinuosum*, *Dentalium* Boissevain, 1906: 28, pl. 6, fig. 22. Recent. Indonesia, Timor Sea, *Siboga* stn 294, 10°12'S, 124°27'E, 73 m. Lectotype ZMA 3.06.021 (designated by Scarabino 1995: 206); paralectotypes ZMA 3.06.018 (1, second specimen lost, *vide* R. Moolenbeek & A. N. Van der Bijl in *litt.* 23.VI.2000; Kwandang-bay-entrance, *Siboga* stn 114, 0°58.5'N, 122°55'E, 75 m), ZMA 3.06.019 (1, lost *vide* R. Moolenbeek & A. N. Van der Bijl in *litt.* 23.VI.2000; between islands Wowoni and Buton, *Siboga* stn 204, 4°20'S, 122°58'E, 75-95 m), ZMA 3.06.020 (5 in original description; 6 *vide* R. Moolenbeek & A. N. Van der Bijl in *litt.* 23.VI.2000). Junior synonym of *Dentalium leucoryx* Boissevain, 1906 (*vide* Scarabino 1995: 206).
- † *sobrantensis*, *Dentalium radiolineata* var. Clark, 1918: 192. Oligocene. Near Mount Diablo, California, USA. Holotype UCMP 11261.
- sofiaae*, *Cadulus* Scarabino, 1995: 352, figs 157, 160i, 1. Recent. Réunion, MD32 stn DS151, 20°51'S, 56°03'E, 3300-3240 m. Holotype MNHN; paratypes MNHN (3 from DS151; 1 from DS11; 2 from CH87; 1 from CH90), NM (1; DS149). *Cadulus sofiaae* Scarabino, 1995. Indo-Pacific: Madagascar to New Caledonia. 1600-3716 m.
- † *sokkohense*, *Dentalium* Martin, 1917: 262, pl. 4, fig. 92. Miocene. Kembang Sokkoh, Java, Indonesia. Holotype RGM 7271 (*vide* Van den Hoek Ostende *et al.* 2002: 111).
- sokurarii*, see *sakurarii*.
- † *solidissimum*, *Dentalium* Pilsbry & Brown, 1917: 37, pl. 5, fig. 8. Oligocene. Near Cartagena, Colombia. Holotype ANSP 3057. Remark the authors suggested that this species "is probably a *Fissidentalium*".
- † *solidum*, *Dentalium* Hutton, 1873b: 2. Miocene, Pareora Formation. Kanieri; Sherry River; Waikari, New Zealand. Lectotype NZGS TM.4809 (designated by Keyes 1972: 96). *Fissidentalium solidum* (Hutton, 1873) (*vide* Beu & Maxwell 1990: 424).
- solidum*, *Dentalium* Verrill, 1884: 215, 216, pl. 44, figs 16, 17. Recent. Off Georges Banks, USBF stn 2083, 959 fms [1750 m]. Lectotype USNM 34687 (designated by Henderson 1920: 63); paralectotypes: USNM 34687 (USBF stn 2083, 959 fms [1750 m]), USNM 34904 (USBF stn 2077, 1255 fms [2290 m]), USNM 34688 and USNM 34911 (USBF stn 2084, 1290 fms [2354 m]), USNM 35636 (USBF stn 2103, 1091 fms [1991 m]), USNM 35635 (USBF stn 2111, 938 fms [1712 m]), USNM 35645 (USBF stn 2115, 843 fms [1538 m]), AMNH 148370 (3; USBF stn 2084, 1290 fms [2354 m]). Junior homonym of *Dentalium solidum* Hutton, 1873. Replacement name: *Dentalium (Fissidentalium) meridionale verilli* Henderson, 1920. Junior synonym of *Fissidentalium candidum* (Jeffreys, 1877) (*vide* Pilsbry & Sharp 1897: 72).
- † *soliticum*, *Dentalium* Piette, 1855: 1122. Jurassic. Rumigny, France.
- sominium*, *Laevidentalium* Okutani, 1964: 75, 76, text-fig. 3. Recent. Sagami Bay, Japan, 35°03.6'N, 139°22.4'E, 1320-1400 m. Holotype NSMT Mo.69572; paratypes NSMT Mo.69573 (47). *Episiphon sominium* (Okutani, 1964) (*vide* Steiner 1999: 155). Indo-Pacific: Japan. 620-1400 m. Remarks: Okutani (1964: 75) listed material from the following *Soyo-maru* stations: 1 specimen from stn T29, Sagami Bay, 35°04.8'N, 139°30.2'E, 620-780 m; 6 specimens from stn T29, Sagami Bay, 35°05.5'N, 139°29.3'E, 710-770 m; 23 specimens from stn T28, Sagami Bay, 35°03.6'N, 139°22.4'E, 1400 m; 24 specimens from stn T28, Sagami Bay, 35°01.0'N, 139°19.6'E, 1385 m; 9 Specimens from stn T28', Sagami Bay, 35°03.5'N, 139°24.5'E, 1190-1220 m; 26 specimens from stn 169, Sagami Bay, 35°04.9'N, 139°33.2'E, 780 m; 1 specimen from stn 9, Sea of Kashima-Nada, 36°19.2'N, 141°15.6'E, 1030 m; about 20 specimens from stn 17, Sea of Kashima-Nada, 36°19.7'N, 141°09.0'E, 870 m. None of these match in number of specimens with the located paratype lot which is labelled "Sagami Bay" and may represent a partial combination from these stations.
- † *sorbii*, *Dentalium* King, 1850: 218. Permian. Connigsborough, near Doncaster, Ireland. Holotype Sheffield City Museum H.27.11.80.777 (*vide* Riley 1974: 36). Junior synonym: *Dentalium speyeri* Geinitz, 1852 (*vide* Pilsbry & Sharp 1898: 233).
- † *soriense*, *Dentalium* Eames, 1952: 5, pl. 1, figs 1a, 1b. Eocene. Zinda Pir section, Ghazij Shales, N of Dera Ghazi Khan, Pakistan. Holotype BMNH G.68000.
- † *sougraignense*, *Dentalium* Cossmann, 1904: 637, pl. 3, figs 12, 13. Cretaceous, Santonian. Sougraigne, Aude, France.
- sowerbyi*, *Dentalium* Guilding, 1834: 35, pl. 3, fig. 7. Recent. Caribbean. Type material not located. Synonym: *Episiphon sowerbyi pelliceri* (Henderson, 1920). *Episiphon sowerbyi* (Guilding, 1834) (*vide* Pilsbry & Sharp 1897: 117). Western Atlantic, Caribbean: Cape Hatteras (North Carolina, USA) to Brazil. 7-329 m.
- sowerbyi*, *Dentalium* Chenu, 1843: pl. 6, fig. 2; 1850: 7. Type locality not specified. Non *Dentalium*

- sowerbyi* Guilding, 1834. Tentative junior synonym of *Antalis entalis* (Linnaeus, 1758) (*vide* Pilsbry & Sharp 1898: 216).
- sowerbyi*, *Dentalium* Michelotti, 1847. Not a scaphopod. See Other taxa described as Scaphopoda.
- soyomaruae*, *Bathoxiphus* Okutani, 1964: 77, 78, text-fig. 4. Recent. 56 miles off Aogashima Island, Japan, 32°20'N, 140°55.5'E, 3150-3350 m. Holotype NSMT Mo.9574 (*vide* Anonymous 1996: 82) and 2 paratypes. *Bathoxiphus soyomaruae* Okutani, 1964. Indo-Pacific: Madagascar to Japan and New Caledonia. 975-5750 m. Remark: Chistikov (1983: 183) synonymized *Rhomboxiphus colmani* (Palmer, 1974) with *B. soyomaruae*, a decision rejected by Scarabino (1995: 314, 317).
- † *spaehti*, *Progadilina* Engeser & Riedel, 1992: 47, 48, pl. 1, fig. 4, text-figs 3, 4. Jurassic, Middle Liassic, Pliensbachian, Hoisdorf, Schleswig-Holstein, Germany. Holotype GPIMH 2516/3; paratype GPIMH 2516/4.
- † *speciosum*, *Dentalium* Gumbel, 1861: 668. Eocene. Bavaria, Germany.
- spectabilis*, *Cadulus* Verrill, 1885a: 432, 433, pl. 44, fig. 19. Recent. 180 miles off Ocean City [Maryland], USBF stn 2221, 39°05'30"N, 70°44'30"W, 2780 m. Lectotype USNM 37935 (designated by Henderson 1920: 107; USNM "40498" error for USNM 37935); paralectotypes USNM 38116 (USBF stn 2043, 1467 fms [2677 m]), USNM 38691, USNM 73051, MCZ 186801 (1), MCZ 186802 (USFC 2174, 1594 fms [2909 m]). *Polyschides spectabilis* (Verrill, 1885) (*vide* Pilsbry & Sharp 1898: 153). Western and Eastern Atlantic: Caribbean to West Africa. 62-3389 m.
- speyeri*, *Dentalium* Geinitz, 1852: 198. Permian. Ruckingen, Wetterau, Germany. Junior synonym of *Dentalium sorbii* King, 1850 (*vide* Pilsbry & Sharp 1898: 233).
- † *spiniforme*, *Dentalium* Martin, 1885: 191, 192, pl. 10, fig. 193; 1887: 191, 192, pl. 10, fig. 193. Miocene. Ngembak, Java, Indonesia. Syntypes RGM 7277 (9) (*vide* Van den Hoek Ostende *et al.* 2002: 112).
- † *spiniformis*, *Cadulus* (*Gadila*) Gardner, 1947: 630, pl. 57, fig. 19. Oligocene. Alum Bluff Group, Shoal River Formation. USGS locality 5079, 0.5 miles below Shell Bluff, Shoal River, Walton County, Florida, USA. Syntype USNM Paleobiology 351645 (1).
- spinulosum*, *Dentalium* "Miller, MSS" Pilsbry & Sharp, 1898. Not a scaphopod. See Other taxa described as Scaphopoda.
- spirale*, *Dentalium* Risso, 1826b. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *spitiense*, *Dentalium* Gumbel, 1866: 360, pl. 1, fig. 7. Triassic. Near Spiti, Hamachal Pradesh, northwestern India [formerly Tibet].
- splendens*, *Dentalium* O. G. Costa, 1829: cxxv, cxxvi. Recent. Golfo di Taranto [Italy]. Type material not located. Junior synonym of *Fustiaria rubescens* (Deshayes, 1825) (*vide* Pilsbry & Sharp 1897: 106).
- splendens*, *Dischides* Raines, 2002: 37, 38, fig. 47. Recent. Tahai, Easter Island, 50-80 m. Holotype LACM 2949; paratypes LACM 2950, ANSP 410697 (2), AMS (2), Bailey-Matthews Shell Museum (Florida) 1383 (2). *Dischides splendens* Raines, 2002. Pacific Ocean, Easter Island, 50-80 m.
- splendidum*, *Dentalium* Sowerby *in* Broderip & Sowerby, 1832: 29. Recent. Xipixapi, West Colombia, 10-16 fms [18-29 m]. Syntypes BMNH 1950.11.8.8-9. *Graptacme splendida* (Sowerby *in* Broderip & Sowerby, 1832) (*vide* Pilsbry & Sharp 1897: 96). Eastern Pacific: Colombia. 10-110 m. Remark: Keen (1971: 888) placed this species into *Fustiaria* (*Laevidentalium*).
- spretus*, *Cadulus* (*Gadilia* [sic]) Tate & May, 1900: 102. Recent. Port Esperance, Tasmania, 24 fms [44 m]. Lectotype TMH E1202/8543 (specimen on left hand side of board; *ex* TM1095) (designated by Lamprell & Healy 1998: 156); paralectotypes TMH E1202/8543 (specimen on right hand side of board), SAM D 15848 (21), SAM D 16002 (5). *Gadila spreta* (Tate & May, 1900) (*vide* Cotton & Godfrey 1933: 148). Indo-Pacific: Tasmania, Australia, New Zealand. 9-1770 m. Remark: SAM D 16009, potential type material, consists of "five dry shells with no locality or collection data" (Zeidler & Macphail 1978: 384).
- stanisici*, *Bathoxiphus* Lamprell & Healy, 1998: 142, figs 145G, 149, 150A. Recent. Off Cairns, northern Queensland, Australia, 16°43.06'S, 146°37.18'E, 1477 m. Holotype AMS C173420; paratype AMS C173421 (1). *Bathoxiphus stanisici* Lamprell & Healy, 1998. Known from the type locality only. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *B. stanisici* Lamprell & Healy, 1998 vis-à-vis *Solenoxiphus striatulus* Chistikov, 1983 requires further research.
- stapes*, *Dentalium* (*Gadilina*) Boissvain, 1906: 50, 51, pl. 5, figs 16-20, pl. 6, figs 79, 81, 83. Recent. Banda Sea, Indonesia, Siboga stn 212, 05°54.5'S, 120°19.2'E, 462 m. Syntypes ZMA 3.06.061-062 (2). Junior synonym of *Gadilina insolita* (E. A. Smith, 1894) (*vide* Habe 1964: 32).
- stearnsii*, *Dentalium* Pilsbry & Sharp, 1898: 253, pl. 27, figs 88, 89. Recent. Off Tillamook Harbor, Oregon, 45°30'N, 125°42'W, 786 fms [1434 m]. Syntypes USNM 107700, 600414. Replacement name for *Dentalium* (*Compressidens*) *simplex* Pilsbry & Sharp, 1897 *non* Michelotti, 1861. *Compressidens stearnsii* (Pilsbry & Sharp, 1898). Indo-Pacific: Japan; Eastern Pacific: Oregon. 1434 m.
- steineri*, *Bathoxiphus* Lamprell & Healy, 1998: 142, figs 141E, 145F, 148, 166E, F. Recent. NE [of] Thursday Island [Australia], 10°51'S, 145°49'E, 1379 m. Holotype QM MO40078; paratypes QM MO40079 (3), QM MO40080 (2; northern

- Queensland, 10°01'S, 145°00'E, 1777 m), QM MO40081 (12; northern Queensland, 17°46'S, 147°49'E, 1224 m), AMS C175551 (2; off Cairns, northern Queensland, 16°43.1-42.1'S, 146°37.3-36.4'S 1468-1477 m). *Bathoxiphus steineri* Lamprell & Healy, 1998. Indo-Pacific: Queensland, Australia. 950-1777 m. Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *B. steineri* Lamprell & Healy, 1998 vis-à-vis *Solenoxiphus striatulus* Chistikov, 1983 requires further research.
- stellata*, *Entalinopsis* Scarabino, 1995: 307, 308, figs 110, 111a, b, 115b. Recent. Philippines, MUSORSTOM 2, stn CP18, 14°00'N, 120°18'E, 188-195 m. Holotype MNHN; paratypes MNHN (5 from stn CP55; 1 from stn DR94), AMS C201730 (1; stn CP55), USNM 890871 (1; stn CP55). *Entalinopsis stellata* Scarabino, 1995. Indo-Pacific: Indonesia, Philippines, New Caledonia. 195-900 m.
- stenoschizum*, *Dentalium (Fustiaria)* Pilsbry & Sharp, 1897: 128, 129, pl. 19, figs 10-15. Recent. West Indies. Syntypes ANSP 71081 (1), ANSP 320994 (1). Replacement name for *Dentalium translucidum* sensu Sowerby (1860, 1872) non Deshayes, 1825. *Fustiaria stenoschiza* (Pilsbry & Sharp, 1897). Western Atlantic, Caribbean: Florida to Brazil, 40-400 m. Remarks: Scarabino (1995: 277) determined that the specimens identified as *Dentalium stenoschizum* by Boissevain (1906: 59) were actually referable to *Fustiaria nipponica*. Since Lamprell & Healy (1998: 100, 102) cited to Boissevain (1906) in their use of *Fustiaria stenoschiza*, their Australian records should also be attributed to *F. nipponica*, thus restricting the distribution of *Fustiaria stenoschiza* to the western Atlantic and the Caribbean.
- † *stentor*, *Dentalium* Anderson & Hanna, 1925: 145, pl. 13, fig. 17. Eocene, Tejon Group. CAS locality 792, west side of Tecuya Creek, Kern County, California, USA. Type material CAS 819.
- stimpsoni*, *Dentalium (Antalis) entale* Henderson, 1920: 35-38, pl. 4, figs 2-4. Recent. Near Gotts Island, off Mount Desert, Maine, *Eolis*, 20 fms [37 m]. Neotype USNM 314938 (designated by Henderson 1920). Replacement name for *Dentalium striolatum* Stimpson 1851 non *Dentalium striolatum* Risso, 1826. Junior synonym of *Antalis entalis* (Linnaeus, 1758) (*vide* Pilsbry & Sharp 1897: 43). Remarks: according to Johnson (1976: 66), Stimpson's type material was destroyed in the great Chicago fire. Henderson, when replacing Stimpson's name, chose a recently collected specimen from the USNM collection as the "type". This specimen is the neotype, although Henderson did not use that term.
- † *stonecityensis*, *Cadulus (Gadila)* Hodgkinson, 1974: 18, text-fig. 8r, s; pl. 1, fig. 17. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Stone City Bluff, Brazos River Valley, Burleson County, Texas, USA. Holotype USNM Paleobiology 180441; paratypes PRI 29226, ANSP 31504.
- † *stramineum*, *Dentalium* Gabb, 1864: 139, 140, pl. 21, fig. 100. Cretaceous. NE of Martinez; San Diego; and Curry's, S of Mount Diablo, California, USA.
- strangulatum*, *Dentalium* Deshayes, 1825. Not a scaphopod. See Other taxa described as Scaphopoda.
- strangulatus*, *Cadulus* Locard, 1897a: 4. Recent. Bay of Biscay, *Travailleur* stn 44 [depth of 667 m provided in Locard 1898: 137]. Type material not located. *Gadila strangulata* (Locard, 1897) (*vide* Pilsbry & Sharp 1898: 176). Eastern Atlantic, Mediterranean. 555-2018 m.
- "*strangulosum*", *Dentalium* "Deshayes" – Gümbe1 1861. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *strenuum*, *Dentalium* Casey, 1903: 266. Oligocene. Vicksburg, Mississippi, USA. Syntype ANSP 998.
- † *striatellulata*, *Dentalium (Fustiaria) jani* var. Sacco, 1897: 113, pl. 10, figs 28-33 [as a *nomen nudum* in Sacco 1896: 98]. Miocene/Pliocene. Italy (various localities). Syntypes MIGT BS.106.06.005-BS.106.06.008 (*vide* Ferrero Mortara *et al.* 1984: 309).
- striatinum*, *Siphonodentalium (Siphonodentalium)* Henderson, 1920: 90, 91, pl. 16, figs 3, 8. Recent. Off Fernandina, Florida, *Albatross* stn 2668, 294 fms [537 m]. Holotype and 9 paratypes USNM 108166. *Striopulsellum striatinum* (Henderson, 1920) (*vide* Scarabino 1995: 323). Known from the type locality only. Remark: Henderson (1920: 90, 91) referred to a type specimen from a lot consisting of 10 specimens; however, the holotype has not yet been segregated from the paratypes.
- striatissimum*, *Dentalium* Doderlein, 1864: 97 [15]. *Nomen nudum*. Miocene. Monte Gibio (Modena) and Santo Agata (Tortona), Italy. Remark: Coconi (1874: 647) mentioned this manuscript name in his description of *Dentalium passerinianum*.
- † *striatissimum*, *Dentalium* Razzore, 1896: 248 [ex Doderlein MS]. Pliocene. Borzoli, Zinola and Rio Torsero, Italy. Lectotype MIGT BS.106.01.030 (selected by Pavia 1991: 113); paralectotype BS.106.01.031 (*vide* Ferrero Mortara *et al.* 1984: 302). Remarks: *Dentalium striatissimum* Vinassa de Regny, 1897 is a junior homonym. This name has been attributed to Sacco, 1897 (e.g., Pavia 1991: 112-114) but Razzore had already validated Doderlein's manuscript name. *Dentalium (Dentalium) passerinianum* subsp. *striatissimum* Razzore, 1896 (*vide* Pavia 1991: 112-114, pl. 1, figs 4, 6, 8-10).
- striatissimum*, *Dentalium* Vinassa de Regny, 1897: 163 [ex Meneghini MS]. Tertiary. Roncà, Italy. Junior

- homonym of *Dentalium striatissimum* Razzore, 1896.
- striatissimum*, *Dentalium* Fuenzalida, 1942: 414, 423. Tertiary. Patagonia, Chile. *Nomen nudum*. Remarks: Feruglio (1949b: 160) cited this name, but did not validate it. If this name ever was validated, then it would be a junior homonym of *Dentalium striatissimum* Razzore, 1896 and Vinassa de Regny, 1897.
- † *striatulinum*, *Antale* “?” Cossmann in O’Gorman & Cossmann, 1923: 28, pl. 3, fig. 4. Eocene. Gan, S of Pau, southwestern France.
- striatulum*, *Dentalium* Gmelin, 1791: 3738. [citing Lister 1685-1692: t. 547. f.I.b; Martini 1769: l. t. I. f. 5. b]. Recent. Sicily [in error]. Type material not located. Junior synonym of *Dentalium aprinum* Linnaeus, 1767 (*fide* Pilsbry & Sharp 1897: 3). Objective junior synonym: *Dentalium lupinum* Röding, 1798.
- striatum*, *Dentalium* Turton, 1819: 352, pl. 16, figs 5, 6. Recent. Type locality not known. No information on type material. Junior synonym of *Dentalium octangulatum* Donovan, 1803 (*fide* Pilsbry & Sharp 1897: 17).
- striatulus*, *Solenoxiphus* Chistikov, 1983: 187, 189, pl. 3, figs 2-13, 1 pl. 5, figs 10, 11. Recent. North Fiji Basin, *Vitjaz* stn 5944-2D, 14°21.1’S, 170°38.2’W, 2380 m. Holotype IOM; paratypes IOM (3 from stn 59442D -2D; 1 from stn 6818-2, 5°05.8’N, 130°58.8’E, 1530-1680 m). *Solenoxiphus striatulus* Chistikov, 1983. Indo-Pacific: South Philippine Sea to Fiji Islands and New Caledonia. 1500-3700 m.
- striatum*, *Dentalium* Born, 1778: 449, 450 [citing Gualtieri 1742: pl. 10, fig. 6; Hill 1752, pl. 7; Martini 1769: pl. 5, fig. B]; 1780: 431. Recent. Type locality not specified. Syntypes NHM. Junior synonym of *Dentalium elephantinum* Linnaeus, 1758 (*partim*) and *Dentalium aprinum* Linnaeus, 1767 (*partim*) (*fide* Pilsbry & Sharp 1897: 2, 3).
- striatum*, *Dentalium* Link, 1807: 23 [citing Schröter 1784b: 4 t. 3 f. 5]. Tertiary. Sternberg, Germany. Junior homonym of *Dentalium striatum* Born, 1778. Objective junior synonym of *Dentalium rectum* Gmelin, 1791; both taxa are based upon the same illustration.
- striatum*, *Dentalium* J. Sowerby, 1814: 160, pl. 70, fig. 4. Upper Eocene. Barton, Hampshire, England, United Kingdom. Junior homonym of *Dentalium striatum* Born, 1778. Replacement name: *Dentalium acuticosta* Deshayes, 1825; *Dentalium bartonense* Palmer, 1974 is an unnecessary replacement name. Remarks: Deshayes (1861: 206) attributed this name to “Brander, 1775, Foss. hant., pl. 1, fig. 10”. Pilsbry & Sharp (1898: 198) noted that the 1766 edition of Brander used *Dentalium elephantinum* for this species, and wondered whether “Deshayes may quote from another edition which we have not seen”. We have been unable to track any reference to a “1775” edition of Brander and conclude that Deshayes’ attribution was in error.
- striatum*, *Dentalium* Lamarck, 1818: 344. Tertiary. Siena, Italy. Junior homonym of *Dentalium striatum* Born, 1780, *D. striatum* J. Sowerby, 1814. Remark: Bellini (1909: 228) concluded that *Dentalium delessertianum* Chenu, 1843 was the next available name for *Dentalium striatum* Lamarck, 1818, which however is a junior synonym of *Fissidentalium rectum* (Gmelin, 1791) (*fide* Pilsbry & Sharp 1898: 213; *fide* Caprotti 1979: 223).
- striatum*, *Dentalium* Brown, 1827: caption to pl. 1, fig. 8. Recent. Eastern Atlantic: Holy Island, coast of Northumberland, England, United Kingdom. Junior homonym of *Dentalium striatum* Born, 1780, *D. striatum* J. Sowerby, 1814, and *D. striatum* Lamarck, 1818.
- striatum*, *Dentalium* Eichwald, 1830: 199. Pliocene. Zukowce, Volhynia, Ukraine. Junior homonym of *Dentalium striatum* Born, 1780, *D. striatum* J. Sowerby, 1814, *D. striatum* Lamarck, 1818, and *D. striatum* Brown, 1827. Replacement name: *Dentalium quindeciesstriatum* Eichwald, 1853.
- striatum*, *Dentalium* sensu Philippi 1844: 208 *non* Born, 1778. Tertiary. Sicily, Italy. Replacement name: *Dentalium philippi* Monterosato, 1872, a junior homonym of *Dentalium philippi* Chenu, 1843; renamed *Dentalium rectum* var. *monterosatoi* Pilsbry & Sharp, 1898: 214.
- striatum*, *Dentalium* Ivanov, 1926: 174. *Nomen nudum*. Carboniferous. Near Moscow, Russia. *Non Dentalium striatum* Born, 1780 (Recent). Replacement name: *Dentalium ivanovi* Palmer, 1974. Remark: as Ivanov’s taxon was not validly described, there was no need to rename it.
- striatus*, *Cadulus* (*Gadila*) Pilsbry & Sharp, 1898 [ex Dall MS]: 179, 180, pl. 35, figs 9-13. Recent. Gulf of Panama, USFC stn 3354, 7°09’45”N, 80°50’W, 322 fms [588 m]. Syntypes USNM 122992 (1), USNM 602252 (15), SBMNH 35023 (2), AMNH 148405 (3). *Gadila striata* (Pilsbry & Sharp, 1898). Eastern Pacific: Panama. 588-1206 m.
- striatus*, *Dentalites* Schlotheim, 1813: 91. Sandstein, Mecklenberg, Germany. *Nomen nudum*.
- † *striatus*, *Entalis* Romanovskii, 1890: 112, pl. 16, fig. 4. Upper Paleozoic. Pasha-Ata and Namangan, eastern Uzbekistan [“Turkestan”]. *Prodentalium striatus* (Romanovskii, 1890) (*fide* Likharev 1967: 12, 13, pl. 1, figs 1-3).
- strigatum*, *Dentalium* Gould, 1859: 166. Recent. False Bay, Cape of Good Hope. Lectotype USNM 159 (designated by Johnson 1964: 153); paralectotypes MCZ 169382 (2). Junior synonym: *Dentalium agulhasense* Plate, 1908 (*fide* Barnard 1974: 742). *Dentalium strigatum* Gould, 1859. Indian Ocean: South Africa, Madagascar, Réunion. 33-317 m. Remark: Tomlin (1931: 337) considered *Dentalium belcheri* Sowerby, 1860 to be a junior synonym of *Dentalium strigatum*.
- † *striolatissima*, *Dentalium sexangulum* var. Sacco, 1897: 94, pl. 7, figs 55, 56 [as a *nomen nudum* in

- Sacco 1896: 97]. Pliocene. Italy (various localities). Syntypes MIGT BS.106.01.008, BS.106.01.009 (*vide* Ferrero Mortara *et al.* 1984: 301).
- striolatum*, *Dentalium* Risso, 1826b: 398. Recent. Mediterranean. Syntypes MNHN (8). Junior synonym of *Antalis vulgaris* (Da Costa, 1778) (*vide* Pilsbry & Sharp 1897: 42). Remark: one of the syntypes is actually a specimen of *Antalis inaequicostata* (Dautzenberg, 1891) (*vide* Arnaud 1978: 135).
- striolatum*, *Dentalium* Stimpson, 1851a: 114. Recent. At the mouth of the Bay of Fundy, 10-60 fms [18-110 m]. Type material lost in the Chicago fire (Johnson: 1976: 66). Neotype USNM 314938 (designated by Henderson 1920: 35, pl. 4, figs 2-4). Near Gotts Island, off Mount Desert, Maine, *Eolis*, 20 fms [37 m]). Junior homonym of *Dentalium striolatum* Risso, 1826. Replacement name: *Dentalium (Antalis) entale simpsoni* Henderson, 1920, a junior synonym of *Antalis entalis* (Linnaeus, 1758) (*vide* Pilsbry & Sharp 1897: 43).
- † *stromeri*, *Dentalium (Fustiaria)* Oppenheim, 1906: 215, pl. 25, figs 6, 6a. Miocene. Fajūn, west of Kasr Kerūn, Libya.
- stumkatae*, *Dentalium (Lentigodentalium)* Lamprell & Healy, 1998: 70, 71, figs 68B, 69C, 71. Recent. 32 km off Point Charles, NW of Darwin, 12°10'S, 130°22'E, 27-37 m. Holotype AMS C174641; paratypes AMS C174642 (2), AMS C169964 (2); 96 km NE of Port Hedland, Western Australia, 19°30.9-28.2'S, 118°49.2-55.4'E, 36-37 m). *Dentalium stumkatae* Lamprell & Healy, 1998. Indo-Pacific: northern Australia. 37-154 m.
- subagile*, *Dentalium (Antalis) agile* Henderson, 1920: 38, 39, pl. 4, fig. 8. Recent. USBF stn 2513 [between Halifax and Le Havre Bank], 43°34'N, 63°56'30"W, 134 fms [245 m]. Holotype USNM 887470; paratypes USNM 50188, USNM 50189, USNM 50191, USNM 50193, USNM 52302, USNM 314325, AMNH 148306 (1), ANSP 119158. Subspecies of *Antalis agilis* (G. O. Sars *ex* M. Sars, 1872). Remarks: Abbott (1974: 385) listed *subagile* as a valid species. This opinion is not followed herein because the observed high variability of *Antalis agilis* across the northern Atlantic encompasses the form of *subagile*.
- subanceps*, *Dentalium* Trautschold, 1861: 350-352, pl. 8, figs 16, 17. Jurassic. Mniowniki, Galiowa and Dorogomilof, near Moscow, Russia. Junior synonym of *Dentalium gladiolus* Eichwald, 1846 (*vide* Eichwald 1868: 799; Pilsbry & Sharp 1898: 223).
- † *subannulata*, *Plagiogypta* Easton, 1962: 101, pl. 13, figs 20, 21. Carboniferous. USGS locality 13399, Alaska Bench limestone, Heath, Fergus County, Montana, USA. Holotype and 9 paratypes (in one block) USNM Paleobiology 118878.
- † *subarcuatum*, *Dentalium* Conrad, 1853: 276, pl. 24, fig. 13. Cretaceous. New Egypt, New Jersey, USA.
- † *subcanaliculatum*, *Dentalium* Sandberger & Sandberger, 1856: 240, pl. 26, fig. 19, 19a. Carboniferous. Villmar ("Stringocephalenkalk"), Germany. Remarks: *Nomen nudum* in Sandberger (1842: 399). *Dentalium subcanaliculatum* "G. Sandberger, 1842" [de Koninck, 1843: 319] is an incorrect subsequent spelling.
- "*subcarinatum*", *Dentalium* "Münster in Goldfuss" – Ryckholt 1851. Not a scaphopod. See Other taxa described as Scaphopoda.
- subcentralis*, *Costentalina tuscarorae* Chistikov, 1982b: 1317, 1318, pl. 1, figs 9-11, pl. 4, fig. 3. Recent. *Vitjaz* stn 4199-T [4191 in error], 35°06.8'N, 137°53'W, 5056-5072 m. Holotype IOM; paratypes IOM (2 from stn 4199-T; 1 from stn 4074-T, 40°19'N, 175°45.3'W, 6065 m; 1 from stn 4239-T, 24°50.3'N, 144°05.4'W, 5120 m; 2 from stn 4281-T, 20°01'N, 121°59.6'W, 4370 m; 1 from stn 4289-T, 20°00.3'N, 130°01.2'W, 4984-4902 m; 4 from stn 5065-T, 16°23'N, 146°36'W, 5363-5570 m; 1 from stn 5996-2-T, 10°58.2'N, 153°21.5'W, 5060-5080 m; 2 from stn 6298-24-T, 22°44'S, 160°54'W, 4860 m; 1 from stn 6704, 18°36.8'N, 128°07.8'E). Subspecies of *Costentalina tuscarorae* Chistikov, 1982. Indo-Pacific and Eastern Pacific: from Philippines to off California and Mexico. 4370-6065 m.
- subcoarctata*, *Ditrupa* (Gabb, 1860) – Dall 1892: 444. Unjustified emendation of *Dentalium subcoarctata* Gabb, 1860.
- † *subcoarctata*, *Ditrupa* Gabb, 1860: 386, pl. 67, fig. 47. Eocene. Wheelock, Texas, USA. Holotype ANSP 13263 ("possibly lost" *vide* Hodgkinson 1974: 20). Unjustified emendation: *Cadulus subcoarctatus* (Gabb, 1860) (Dall 1892: 444). *Cadulus (Polyschides) subcoarctatus* (Gabb, 1860) (*vide* Hodgkinson 1974: 19). Remark: Aldrich (1895: 4) and Pilsbry & Sharp (1898: 235) listed *Cadulus abruptus* Meyer & Aldrich, 1886 as a probable junior synonym of *Cadulus subcoarctatus*.
- subcolubridens*, *Cadulus (Gadila)* Ludbrook, 1954: 115, 116, fig. 21. Recent. Gulf of Aden, 2000 m, John Murray Exp. stn 185, 13°48'N, 49°16'E. Holotype BMNH 1952.3.25.32; paratypes BMNH 1952.3.25.33-BMNH 1952.3.25.44 (12). *Gadila subcolubridens* (Ludbrook, 1954). Indo-Pacific: Red Sea to New Zealand. 1158-2000 m.
- † *subcompressum*, *Dentalium* Meyer, 1885: 462; 1886: 64, pl. 3, figs 3, 3a. Eocene. Vicksburg and Jackson, Mississippi, USA. Syntype USNM Paleobiology 638701 (as "holotype" in Palmer & Brann 1965: 371). *Fustiaria (Laevidentalium) subcompressa* (Meyer, 1885) (*vide* Palmer & Brann 1965: 371).
- subcostulata*, *Dentalium agile* var. Locard, 1898: 118. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Antalis agilis* (G. O. Sars *ex* M. Sars, 1872).
- subcurvatum*, *Dentalium* E. A. Smith, 1906 [October]: 251. Recent. SW of Cape Comorin, [Maldives], India, *Investigator* stn 275, 731-771 fms

- [1334-1407 m]. The holotype in BMNH as mentioned by Scarabino (1995: 261) could not be located. Junior synonym: *Dentalium martensi* Boissevain, 1906 [December] (*vide* Scarabino 1995: 261). *Compressidentalium subcurvatum* (E. A. Smith, 1906) (*vide* Scarabino 1995: 261). Indo-Pacific: Madagascar to New Caledonia. 142-1411 m.
- subcylindrica*, *Cadulus tumidosus* var. Locard, 1898: 143. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Cadulus tumidosus* Jeffreys, 1877.
- † *subcylindricum*, *Dentalium* Philippi, 1887a: 105, pl. 12, fig. 14; 1887b: 99, pl. 12, fig. 14. Cretaceous. Algarrobo and S. Vicente, Chile.
- † *subeburneum*, *Dentalium* d'Orbigny, 1850 (volume 2): 372. Eocene. Chaumont, Halaincourt, Acy-en-Mulcien (Oise), France. Replacement name for *Dentalium eburneum* sensu G. B. Sowerby 1825 non Linnaeus, 1767. Junior synonym: *Fustiaria circinata* Newton, 1891 (*vide* Pilsbry & Sharp 1898: 216). Remarks: Deshayes (1864: 216) listed this name as a junior synonym of *Dentalium eburneum* Linnaeus, 1767; Newton & Harris (1894: 65, 66), Le Renard (1995: 175), and Le Renard & Pacaud (1995: 85) considered it as a valid species of *Fustiaria*.
- subentalis*, *Dentalium* d'Orbigny, 1850 (volume 2): 320. Eocene, Suessonian. Cuise-Lamotte, Varinfroy (Oise), France. Tentative junior synonym of *Antalis entalis* (Linnaeus, 1758) (*vide* Pilsbry & Sharp 1898: 216).
- † *subfissura*, *Entalis* Tate, 1887: 191, pl. 20, figs 4a, 4b. Eocene. River Murray Cliffs, near Morgan; Nine-Mile Camp, near Nor'West Bend; Muddy Creek, Corio Bay; Schnapper Point, Victoria; Blanche Point, Aldinga Bay, Australia. Holotype and 15 paratypes SAM T 249A. *Dentalium* (*Laevidentalium*) *subfissura* (Tate, 1887) (*vide* Ludbrook 1959: 146, 147, pl. 2, fig. 3).
- subfusiforme*, *Siphonodentalium* M. Sars, 1865a: 301, pls 6, 7, figs 36-44. Recent. Drøbach, Langesund and Flekkefjord, 50-120 fms; Bergen, 50-60 fms; Lofoten, 100-300 fms [west coast of Norway, 91-548 m]. Syntypes SMNH 4626 (Norway, Lofoten, 360-540 m). *Cadulus subfusiformis* (M. Sars, 1865) (*vide* Jeffreys 1867: 251). Eastern Atlantic: Northern Europe to Northern Africa. 73-1185 m.
- † *subgiganteum*, *Dentalium* d'Orbigny, 1852 (volume 3): 94. Miocene, "Falunian". Navidad, Chile. Replacement name for *Dentalium giganteum* J. de C. Sowerby, 1846 non Phillips, 1829. Junior synonym: *Dentalium corrugatum* Hupé in Gay, 1854 (*vide* Pilsbry & Sharp 1898: 217).
- † *subgracile*, *Dentalium* Emerson, 1954: 185. Paleocene. Jutland, Denmark. Replacement name for *Dentalium gracile* Grönwall & Harder, 1907 non *Dentalium gracile* Hall & Meek, 1854, nec Moore, 1866, nec Jeffreys, 1870, nec Philippi, 1887.
- † *subirregularare*, *Dentalium* Pilsbry & Sharp, 1898: 217. Pliocene, Astian stage. Gallina, Reggio, Calabria, Italy. Replacement name for *Dentalium irregulare* Seguenza, 1879 non *Dentalium irregularis* Risso, 1826 nec Hutton, 1873.
- † *subjuvenis*, *Dentalium* (*Entalis*) *taurostriata* var. Sacco, 1897: 109, pl. 9, fig. 55 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.03.030 (*vide* Ferrero Mortara *et al.* 1984: 308).
- sublaeve*, *Dentalium* Hall in Miller, 1877: 244. Carboniferous. Iowa, USA. Objective junior synonym of *Prodentalium obsoletum* (Hall, 1858). Remarks: introduced as a replacement name for *Dentalium obsoletum* Hall, 1858 non Schlotheim, 1832. However, Schlotheim's name is a *nomen nudum*. *Dentalium sublaeve* is also a junior homonym of *Dentalium dentalis* var. *sublaevis* Cocconi, 1874.
- sublaevigata*, *Dentalium semivestitum* var. Locard, 1898: 108. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Fissidentalium semivestitum* (Fischer in Locard, 1898).
- † *sublaevis*, *Dentalium dentalis* var. Cocconi, 1874: 648. Miocene. Vigoleno, Italy. Said by Cocconi to be the same as *Dentalium obsoletum* Doderlein, 1862 [*nomen nudum*].
- sublaevis*, *Dentalium sexangulum* var. Coppi, 1881: 85. Pliocene. Savignano and Zappolino, Italy. *Nomen nudum*.
- † *sublineatum*, *Dentalium* Stephenson, 1952: 142, 143, pl. 34, fig. 3. Upper Cretaceous, Cenomanian, Woodbine Formation. Lamar County Locality 201, near old Slate Shoals, Red River, 8 miles E of Arthur City, Lamar County, Texas, USA. Holotype USNM Paleobiology 105607; paratypes USNM Paleobiology 105608-105609.
- subornata*, *Dentalium semivestitum* var. Locard, 1898: 109. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Fissidentalium semivestitum* (Fischer in Locard, 1898).
- † *subovatum*, *Dentalium* Richardson, 1906: 587, 588, pl. 45, fig. 7. Jurassic, "Lower Lias". Redcar, Yorkshire, England, United Kingdom. For *Dentalium compressum* sensu Terquem 1885 non d'Orbigny, 1850. *Progadilina subovata* (Richardson, 1906) (*vide* Engeser & Riedel 1992: 38).
- † *subparvulum*, *Dentalium* Emerson, 1954: 185. Jurassic, Pliensbachian. Leckhampton Station clay-pit, Cheltenham, England, United Kingdom. Replacement name for *Dentalium parvulum* Richardson, 1906 non Philippi, 1887. *Laevidentalium subparvulum* (Emerson, 1954) (*vide* Engeser & Riedel 1992: 38).
- † *subplanum*, *Dentalium* Pilsbry & Sharp, 1898: 228. Cretaceous. Blackdown, England, United Kingdom. Replacement name for *Dentalium cylindricum* sensu Gardner 1878 non J. Sowerby, 1814.

- † *subpolitum*, *Siphonodentalium* (*Dischides*) Cossmann & Peyrot, 1917: 185, 186, pl. 2, figs 8-10. Miocene. Giraudeau, Lagus and Pont-Pourquey, France. Replacement name for *Gadus politus* Benoist, 1873 non *Cadulus politus* (S. Wood, 1842).
- † *subprismaticum*, *Dentalium* (*Dentalium*) Baluk, 1972: 450, 451, pl. 6, figs 2-7, text-fig. 2. Miocene, Lower Tortonian (Badenian). Korytnica, 24 km SSW of Kielce, Holy Cross Mountains, Poland. Holotype and paratypes, Baluk collection.
- † *subquadrangulare*, *Dentalium* Emerson, 1954: 185. Mesozoic. Morea, Peloponnesus, Greece. Replacement name for *Dentalium quadrangulare* Deshayes 1835 non Sowerby in Broderip & Sowerby, 1832.
- † *subquadratum*, *Dentalium* Meek, 1860: 311. Jurassic. North Platte River, at Red Buttes, 42°50'N, 106°40'W, Wyoming, USA. Syntypes USNM Paleobiology 677 (slab with numerous specimens).
- subquadratum*, *Dentalium* Richardson, 1906: 588, 589, pl. 45, fig. 8. Jurassic, Sinemurian. Honeybourne, near Evesham, England, United Kingdom. Junior homonym of *Dentalium subquadratum* Meek, 1860. The replacement name, *Dentalium richardsoni* Emerson, 1954, is itself a junior homonym of *Dentalium richardsoni* Cossmann, 1907. Replacement name: *Dentalium sabrinae* Engeser & Riedel, 1992.
- subrecta*, *Dentalium agile* var. Locard, 1898: 117. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Antalis agilis* (G. O. Sars ex M. Sars, 1872).
- subrecta*, *Dentalium scamnatum* var. Locard, 1898: 110. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Dentalium scamnatum*, a junior synonym of *Fissidentalium capillosum* (Jeffreys, 1877).
- † *subrecta*, *Dentalium sexangulare* var. Cocconi, 1874: 645. Pliocene. Castell'Arquato, Italy.
- subrectum*, *Dentalium* Jeffreys, 1883: 661. Recent. Philippines. Holotype USNM 176124. Junior homonym of *Dentalium sexangulare* var. *subrecta* Cocconi, 1874. *Episiphon virgula* (Hedley, 1903) (*fide* Scarabino 1995: 287). Remarks: since Habe (1964: 29) claimed that *E. subrectum* was a junior homonym of the fossil taxon *Dentalium sexangulum* var. *subrecta* Cocconi, 1873, Hedley's (1903) name is the oldest available one for this species, and not *Episiphon subrectum* var. *makiyamai* (Kuroda & Kikuchi, 1933). V. Scarabino (*in litt.* 5.XI.2001), based on examination of the type material, suggested that the status of *D. subrectum* vis-à-vis *Laevidentalium eburneum* (Linnaeus, 1767) requires further research.
- subrectum*, *Dentalium* Martin, 1885: 185, pl. 10, figs 180, 181; 1887: 185, pl. 10, figs 180, 181. Miocene. Ngembak and Grisee, Java, Indonesia. Syntypes RGM 7239 (1), RGM 7240 (1), RGM 7238 (1), RGM 7241 (1) (*fide* Van den Hoek Ostende *et al.* 2002: 112). Junior homonym of *Dentalium sexangulum* var. *subrecta* Cocconi, 1873. *Dentalium teschi* Koperberg, 1931. Remark: this name introduced as subspecies by Koperberg (1931) has priority over the replacement name *Dentalium semarangense* Altena, 1938.
- † *subregulare*, *Dentalium* Palmer, 1974: 124. Triassic. Granietz, Upper Silesia, Poland. Replacement name for *Dentalium regulare* Ahlburg, 1906 non E. A. Smith, 1903.
- † *subserratum*, *Dentalium* Palmer, 1974: 125. Miocene. Grisee, Java, Indonesia. Holotype RGM 7270 (*fide* Van den Hoek Ostende *et al.* 2002: 112). Replacement name for *Dentalium serratum* Martin, 1885 non Pictet & Roux, 1849 (Polychaeta).
- † *subsexangulare*, *Dentalium* d'Orbigny, 1852 (volume 3): 94. Miocene, Falunian. Piemont, Dertona, Italy. Replacement name for *Dentalium sexangulare* sensu Deshayes 1825 non Lamarck, 1818. Tentative junior synonym: *Dentalium noe* Sismonda, 1847 (*fide* Pilsbry & Sharp 1898: 215). Remarks: d'Orbigny (1852) erroneously credited *sexangulare* to Gmelin, 1791 instead of Lamarck, 1818; Gmelin (1791) is author of *Dentalium sexangulum*. *Dentalium subsexangulatum* [d'Orbigny, 1852 (Index): 59] is an incorrect subsequent spelling. *subsexangulatum*, see *subsexangulare*.
- substriata*, *Teredo* Conrad, 1849: 728, pl. 20, figs 7, 7a, 7b. Miocene. Astoria, Oregon, USA. Types not located. A junior secondary homonym of *Dentalium substriatum* Deshayes, 1825. Replacement names: *Dentalium pseudonyma* Pilsbry & Sharp, 1898; *Dentalium conradi* Dall; 1909 *Dentalium petricola* Dall, 1909. Remark: this species was independently renamed twice; see Emerson (1958) for further discussion.
- † *substriatum*, *Dentalium* Deshayes, 1825: 366, 367, pl. 18, figs 1, 2. Eocene. Parnes, Chaumont and l'Orme, Paris Basin, France. Types not located. For *Dentalium fissura* sensu J. Sowerby 1823 non Lamarck, 1818. Remarks: this species was misidentified as *Dentalium acuticosta* Deshayes, 1825 by Dixon (1850: 96) (*fide* Deshayes 1864: 208). A valid species of *Antalis* (*fide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- subterfissum*, *Dentalium* Jeffreys, 1877: 154, 155. Recent. Localities of syntypes: USNM 175017 (*Porcupine* 1869 stn 19a), USNM 175018 (*Porcupine* 1869 stn 16, 54°19'N, 11°50'W, 816 fms [1489 m]), USNM 175019 (*Valorous* stn 12, 56°11'N, 37°41'W, 1450 fms [Greenland, 2646 m]), USNM 175020 (*Porcupine* 1869 stn 21, 55°40'N, 12°46'W, 1476 fms [2694 m]); BMNH 85.11.5.1393-1394 (*Porcupine*, without locality). *Heteroschismoides subterfissus* (Jeffreys, 1877) (*fide* Henderson 1920: 58, as *Dentalium* (*Heteroschisma*) *subterfissum*). Western Atlantic: Caribbean to Brazil; Eastern Atlantic: Greenland to West Africa.

- 940-3109 m. Remark: also described from *Challenger* Exp. (station number not given), 37°26'N, 45°14'W, 1000 fms [1825 m], but this type lot was neither located in BMNH nor mentioned by Warén (1980).
- subterlineatum*, *Dentalium* Tomlin, 1931: 337. Recent. Off Cape Point [South Africa], 900 fms [1642 m]. Lectotype SAFM 6192 (designated by Giles & Gosliner 1983: 41); paralectotype NMW (1). *Entalina subterlineata* (Tomlin, 1931) (*vide* Chistikov 1982c: 1497). South Africa. 690-1645 m.
- subtilis*, *Cadulus* (*Gadila*) Plate, 1908a: 360, pl. 30, fig. 48. Recent. Near Dar-es-Salaam, Tanzania, *Valdivia* stn 244, 5°55.8'S, 39°1.2'E, 50 m. Lectotype ZMB 61108a (designated by Kiliás 1995: 176); paralectotypes ZMB 61108b (1), ZMB 63842 (4). *Gadila subtilis* (Plate, 1908) (*vide* Jaekel 1932: 310). Known from the type locality only. Remark: Jaekel (1932: 310) remarked upon certain similarities with *Ditrupa* (Polychaeta), and Kiliás (1995: 176) parenthetically remarked that this taxon is probably *Ditrupa*. Plate's illustration indeed resembles a worm tube, and the taxon may have to be removed from the Scaphopoda after examination of the types.
- subtorquatum*, *Dentalium* Fischer, 1871: 212, 218, pl. 11, fig. 1. Recent. Suez, Red Sea. Lectotype and 4 paralectotypes MNHN (designated by Scarabino 1995: 286). Junior synonyms: *Dentalium anulolum* Brazier, 1877; *Dentalium tornatum* Watson, 1879; *Dentalium* (*Episiphon*) *sewelli* Ludbrook, 1954 (*vide* Scarabino 1995: 286). *Episiphon subtorquatum* (Fischer, 1871) (*vide* Habe & Kosuge 1964: 8). Indo-Pacific: South Africa to New Caledonia and Fiji; Eastern Atlantic: South Africa. 17-650 m. Remark: Lamprell & Healy (1998: 104) listed *anulolum* as a valid species of *Omniglypta*.
- † *subtrigonale*, *Dentalium* Richardson, 1906: 589, pl. 45, fig. 2. Jurassic, Pliensbachian. Folly-Lane clay pit, Cheltenham, England, United Kingdom. *Progadilina subtrigonalis* (Richardson, 1906) (*vide* Engeser & Riedel 1992: 39).
- subula*, *Cadulus* (*Gadila*) Henderson, 1920: 135, 136, pl. 19, fig. 5. Recent. Off Bahia Honda, Cuba, USBF stn 2352, 22°35'N, 84°23'W, 463 fms [845 m]. Holotype USNM 323113. *Gadila subula* (Henderson, 1920). Known from the type locality only.
- subulatum*, *Dentalium* Deshayes, 1825. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *sueroi*, *Calstevenus* Sabattini, 1979: 23-25, pl. 1, figs 4-9. Lower Permian, Tepuel Group. Subida del Paisano, Sierra de Languineo, Chubut Province, Argentina. Holotype MLP 13169; paratypes MLP 13167, 13168, 13170, 13171.
- † *sulcatulum*, *Dentalium* Koenen, 1892: 987, 988, pl. 59, figs 14, 15. Lower Oligocene. Lattorf, Germany.
- sulcatum*, *Dentalium* Schumacher, 1817: 263 [citing Martini 1769: I t. I f. 4A]. Type locality not specified. Types not located. Junior synonym of *Fissidentalium rectum* (Gmelin, 1791); both taxa are based upon the same illustrations from Martini 1769.
- sulcatum*, *Dentalium* Lamarck, 1818: 343. Eocene. Grignon, France. Junior homonym of *Dentalium sulcatum* Schumacher, 1817; replacement name: *Dentalium potiezi* Le Renard, 1994.
- sulcatum*, *Dentalium* (*Antalis*) *occidentale* var. Verrill, 1884: 217. Recent. Georges Bank [Massachusetts]. Syntypes USNM 38398 (1; USBF 2079, *Albatross* stn 2079, 41°13'N, 66°19'50"W, 75 fms [137 m]), USNM 35093 (4; USBF 2077, 1255 fms [2290 m]). Junior homonym of *Dentalium sulcatum* Schumacher, 1817 and *Dentalium sulcatum* Lamarck, 1818. Replacement name: *Dentalium* (*Antalis*) *occidentale georgiense* Henderson, 1920: 43. Synonym of *Antalis occidentalis* (Stimpson, 1851).
- † *sulcosum*, *Dentalium* J. de C. Sowerby, 1846: 263, pl. 2, fig. 2. Tertiary. Navidad, Chile. Junior synonyms: *Dentalium majus* J. de C. Sowerby, 1846; *D. gayi* Philippi, 1887 (*vide* Ortmann 1902: 157, 159; by First Reviser action, according to ICZN 1999: article 24).
- sumatrense*, *Dentalium* (*Compressidens*) Plate, 1908a: 350 (illustrated in Jaekel 1932: 304, text-fig. 3). Recent. Sumatra, *Valdivia* stn 186, 3°22.1'S, 101°11.5'E, 903 m. Holotype ZMB 61081 (*vide* Kiliás 1995: 176). *Compressidentalium sumatrense* (Plate, 1908) (*vide* Scarabino 1995: 264). Indo-Pacific: Indonesia. 750-903 m.
- summa*, *Polyschides* Okutani, 1964: 79, 80 [ex Kuroda MS] (*nomen nudum* in Habe 1953: 298; 1963: 278). Recent. Sagami Bay, Japan, 700-780 m; off Kushikino, Japan, 730-760 m. Types in NSMT(?). *Siphonodentalium summa* (Okutani, 1964) (*vide* Habe 1964: 51). Indo-Pacific: Japan. 700-780 m. Remark: *Siphonodentalium magnum* (Boissevain, 1906) may be a senior synonym of this species (Habe 1964: 51).
- † *sundkrogensis*, *Dentalium* (*Dentalium*) Schnetler, 2001: 43, 44, pl. 1, figs 10, 11. Selandian, Paleocene. Sundkrogen, Copenhagen, Denmark. Holotype MGUH 24839; paratype MGUH 24838. Remark: Schnetler determined that some specimens identified in the literature as *Dentalium rugiferum* von Koenen 1885 were actually a distinct, new species.
- † *sunieri*, *Dentalium* (*Antalis*) Koperberg, 1931: 31, 32, pl. 1, fig. 4. Neogene/Quaternary. Locality 5, "Toi Oesapi Soka aan de [on the] Noi Lioe (gemengd met fossielen von Nono Fatoe Fekoe)," [mixed with fossils from Nono Fatoe Fekoe] Timor.
- † *superbus*, *Dentalium* Brunet, 1995: 52, 53, pl. 5, fig. 6. Upper Miocene, Entrerriense Formation. Baliza Punta Flecha, Puerto Madryn, Chubut Province, Argentina. Holotype MPEF-PI-079.
- suteri*, *Dentalium* Emerson, 1954: 185. Recent. Port Pegasus, Stewart Island, New Zealand, 33 m.

- Holotype (of *Dentalium arenarium* Suter) NZIGN TM1219 (*vide* Boreham 1959: 75); paratypes SAM D 16001 (*vide* Zeidler & Macphail 1978: 83), ZMB 61911 (*vide* Kilias 1995: 172). Replacement name for *Dentalium arenarium* Suter, 1913 *non* Römer, 1855. *Antalis suteri* (Emerson, 1954) (*vide* Dell 1957: 573). Pacific Ocean: Australia, New Zealand. 33-374 m.
- sutherlandi*, *Polyschides* Lamprell & Healy, 1998: 169, 170, figs 174D, 175F, 179. Recent. Off Cairns, northern Queensland, Australia, 17°22'S, 146°48'E, 296-303 m. Holotype QM MO53677; paratypes QM MO45834 (1), QM MO40085 (11), AMS C172620 (1; E of North West Island, Queensland, 23°15.2'S, 152°24.1'E, 284 m), AMS C173955 (4; mouth of Caiman Creek, Berkeley Bay, Port Essington, Cobourg Peninsula, Northern Territory [Australia]). *Polyschides sutherlandi* Lamprell & Healy, 1998. Indo-Pacific: northern and eastern Australia. 243-1764 m.
- † *suzukii*, *Dentalium (Fustiaria)* Yokoyama, 1929: 14, 15, pl. 7, figs 6, 6a. Pliocene. Tonohama, near Yasuda, Aki County, Tosa Prefecture, Japan. Holotype Geol. Survey of Japan (*vide* Hanzawa *et al.* 1961: 209).
- † *syltense*, *Fissidentalium floratum* subsp. R. Janssen, 1989: 84, 85, pl. 1, figs 7-9. Upper Miocene, Syltian. Morsumkliff, Sylt, Schleswig-Holstein, Germany. Holotype SMF 308309; paratypes SMF 308310, SMF 308311/20, RGM 220270/32.
- † *sylvaerupis*, *Serpulorbis* Harris, 1899: 73, pl. 10, fig. 1. Lower Eocene. Woods Bluff, Tombigbee River, Clark County, Alabama, USA. Holotype PRI 268 (*vide* Brann & Kent 1960: 793). Remark: transferred from the Polychaeta to the Scaphopoda: Dentaliidae by Palmer & Brann (1965: 369).
- syriacum*, *Dentalium* Fraas, 1867: 95 [attributed to "Conrad"]. Cretaceous. Syria. Junior synonym of *Dentalium cretaceum* Conrad, 1852 (*vide* Pilsbry & Sharp 1898: 221; Blanckenhorn 1927: 123).
- † *taeniolum*, *Dentalium* Sandberger & Sandberger, 1856: 241, pl. 26, fig. 21, 21a. Carboniferous. Nassau, Germany.
- taiwanum*, *Dentalium aprinum* Kuroda, 1941: 149, pl. 14, fig. 45. Recent. Takao, Taiwan. Types in NSMT. Junior synonym of *Dentalium aprinum* Linnaeus, 1767 (*vide* Scarabino 1995: 198).
- takakaoe*, *Graptacme* Tsuchida & Tachi, 1999: 9-11, figs 1-12 [*ex* Kira MS]. Recent. Ise Bay, Mie Prefecture, central Japan. Holotype NSMT Mo 71400; paratype NSMT Mo 71401. *Graptacme takakaoe* Tsuchida & Tachi, 1999. Known from the type locality only. Remark: this name was first used in the "Yume-Hamaguri" which was a hand-written Japanese malacological journal. Because it was hand-written, it was not a valid publication (ICZN 1999: article 9.1). In 1994, several unnamed members of the Tokai Shell Club compiled various articles from "Yume-Hamaguri" and other sources, and republished them in a type-set format (Anonymous 1994: 10, pl. 3, fig. 7 [*ex* Kira MS]). Although properly printed, this 1994 book was anonymously published, and hence is not a valid publication (ICZN 1999: articles 14, 50.1).
- taphrium*, *Dentalium* Dall, 1889: 422. Recent. Between Mississippi Delta and Cedar Keys, USBF stn 2405, 28°45'N, 85°02'W, 30 fms [55 m]. Lectotype USNM 95320 (designated by Henderson 1920: 53); paralectotypes USNM 92891, USNM 92819 (2; USFC stn 2598), USNM 93119 (2; USFC stn 2608), USNM 93120 (14; USFC stn 2612), MCZ 7690 (8; USFC stn 2612), USFC, Havana, 182 fms [332 m] not located. *Antalis taphria* (Dall, 1889) (*vide* Pilsbry & Sharp 1897: 58). Western Atlantic, Caribbean: Cape Hatteras (North Carolina, USA) to Brazil. 15-692 m.
- tarentinum*, *Dentalium* Lamarck, 1818: 345. Recent. Gulf of Tarento [Italy]. Possible syntypes MHNG 1081/57 (7; *vide* Y. Finet *in litt.* 16.X.1996). Junior synonym of *Antalis vulgaris* (Da Costa, 1778) (*vide* Pilsbry & Sharp 1897: 41). Remark: Palmer (1987b) argued that this taxon was a distinct species and not a junior synonym of *Antalis vulgaris*.
- tasmaniensis*, *Dentalium* Tenison-Woods, 1877: 140. Recent. Northwest coast of Tasmania, Australia. Type material apparently lost (*vide* Lamprell & Healy 1998: 172, citing E. Turner, TMH, *pers. comm.*). Cotton & Godfrey (1940: 327) gave measurements of the purported holotype, but their figure 348 depicts a subfossil specimen from South Australia. Lamprell & Healy (1998: 172) concluded that this was an unrecognizable species.
- † *tatei*, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898: 218. Upper Eocene. Glauconitic sands, Adelaide bore, Kent Town, South Australia, Australia. Holotype and 6 paratypes SAM T 252A. Replacement name for *Dentalium triquetrum* Tate, 1887 *non* Brocchi, 1814. *Dentalium (Gadilina) tatei* Sharp & Pilsbry in Pilsbry & Sharp, 1898 (*vide* Ludbrook 1959: 144, pl. 1, fig. 5).
- † *tauraspera*, *Dentalium (Antale) bouei* var. Sacco, 1897: 99, pl. 8, figs 14-17 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Stazzano, Italy. Lectotype MIGT BS.106.02.011 (selected by Pavia, 1991: 148); paralectotypes MIGT BS.106.02.008-BS.106.02.010 (*vide* Ferrero Mortara *et al.* 1984: 303). *Fissidentalium tauroasperum* (Sacco, 1897) (*vide* Pavia 1991: 148-150, pl. 5, figs 1, 3, 6-8; table 5). Remark: Pavia (1991) emended the species name from "*tauraspera*" to "*tauroasperum*".
- † *tauroasperum*, *Fissidentalium* Pavia, 1991: 148-150, pl. 5, figs 1, 3, 6-8. Emendation of *Dentalium (Antale) bouei* var. *tauraspera* Sacco, 1897.
- † *taurocostatum*, *Dentalium (Antale) ?* Sacco, 1897: 101, pl. 8, figs 50-54 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Lectotype MIGT BS.106.02.043 (selected by Pavia 1991: 121); paralectotypes MIGT BS.106.02.043,

- BS.106.02.044, BS.106.02.046 (*vide* Ferrero Mortara *et al.* 1984: 304, pl. 56, figs 7, 8). *Antalis taurocostata* (Sacco, 1897) (*vide* Pavia 1991: 120-123, pl. 3, figs 1-7).
- † *taurogracilis*, *Dentalium* (*Antale*) *bouei* var. Sacco, 1897: 99, pl. 8, figs 19-21 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills, Italy. Syntypes MIGT BS.106.02.013, BS.106.02.014 (*vide* Ferrero Mortara *et al.* 1984: 303).
- † *taurogracilis*, *Dentalium* (*Gadilina*) *triquetra* var. Sacco, 1897: 114, pl. 10, figs 44-46 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. Turin hills, Italy. Syntypes MIGT BS.106.07.013-BS.106.07.010 (*vide* Ferrero Mortara *et al.* 1984: 309). *Fustiaria taurogracilis* (Sacco, 1897) (*vide* Báldi 1973: 339, pl. 51, fig. 4).
- † *taurominima*, *Cadulus* (*Loxoporus*) Sacco, 1897: 116, pl. 10, fig. 78 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. Turin hills, Italy. Syntype MIGT BS.106.11.001 (*vide* Ferrero Mortara *et al.* 1984: 310).
- † *taurostriata*, *Dentalium* (*Entalis*) Sacco, 1897: 109, pl. 9, figs 47-52 [as a *nomen nudum* in Sacco 1896: 97]. Miocene. Turin hills and Baldissero, Italy. Syntypes MIGT BS.106.03.026, BS.106.03.027 (*vide* Ferrero Mortara *et al.* 1984: 307, pl. 56, fig. 4).
- † *taurotumidosus*, *Cadulus* (*Cadulus*) Sacco, 1897: 115, pl. 10, figs 68-73 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. Turin hills, Italy. Syntypes MIGT BS.106.10.008, BS.106.10.009 (*vide* Ferrero Mortara *et al.* 1984: 310, pl. 55, figs 11, 12).
- † *taurovulus*, *Cadulus* (*Cadulus*) Sacco, 1897: 115, pl. 10, figs 64-67 [as a *nomen nudum* in Sacco 1896: 98]. Miocene. Turin hills, Italy. Lectotype MIGT BS.106.10.006 (selected by Pavia 1991: 134); paralectotypes MIGT BS.106.10.005, BS.106.10.007 (*vide* Ferrero Mortara *et al.* 1984: 310, pl. 55, figs 7, 8).
- teliger*, *Cadulus* Finlay, 1926: 444, pl. 19, figs 53, 54. Tertiary of New Zealand. Recent off Auckland Island, 95 fms [New Zealand, 173 m]. Holotype AIM; paratypes ANSP 232249, DMNH 22370 (*vide* Mikkelsen & Bradford 1997: 44). *Cadulus teliger* Finlay, 1926. Pacific Ocean: New Zealand. 9-365 m.
- tenax*, *Dentalium* (*Antalis*) *ceratum* Henderson, 1920: 52, pl. 7, fig. 3. Recent. Barbados, Blake stn 272, 76 fms [139 m]. Holotype USNM 887472. Synonym of *Antalis cerata* (Dall, 1881) (n. syn.). Western Atlantic, Caribbean: Barbados. 60-182 m.
- † *tenuis*, *Dentalium* Goldfuss, 1841: 2, pl. 166, fig. 6 [ex Münster MS]. Jurassic. Pappenheim, Eichstätt, Bavaria, Germany.
- tenuis*, *Dentalium* Portlock, 1843: 118. Jurassic, Liassic. Aghanloo, Ballymaglin and Ballycarton; Magilligan, Craig and Gortmore, Ireland. Holotype Museum of Practical Geology, London, No. 5799 (*vide* Richardson 1906: 584) (now in BMNH?).
- Junior homonym of *Dentalium tenue* Goldfuss, 1841. Replacement name: *Dentalium portlocki* Tate, 1870, a junior objective synonym of *Laevidentalium minimum* (Buckman in Murchison, 1845). Remark: Tate (1870b: 17) suggested that *Dentalium andleri* Oppel, 1856 "is probably a synonym" of this species, "but, assuming that the two names refer to the same species, the imperfect diagnosis of Oppel justifies me in discarding his name".
- † *tenuis*, *Gadila* Ozaki, 1956: 2, 3, pl. 1, fig. 7. Miocene. Nisinotani, Nobori, Hane Town, Aki County, Kôti Prefecture, Japan. Holotype NSMT 4375.
- † *tenuicincta*, *Fustiaria* Gougerot, 1968: 236. Eocene, Upper Bartonian. Le Ruel, near Marines, Val-d'Oise, France. Remark: a valid species of *Plagioglypta* (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85).
- † *tenuicinctum*, *Dentalium* Koenen, 1892: 983, 984, pl. 59, figs 5, 6. Lower Oligocene. Lattorf and Calbe, Germany.
- † *tenuicostatum*, *Dentalium* Böhm, 1891: 69, pl. 2, fig. 34. Cretaceous. Gerhardtstreiter Graben, near Siegsdorf, southern Bavaria, Germany.
- tenuicostatum*, *Fissidentalium* Qi & Ma, 1989: 114, 115, figs 5a, b. Recent. South China Sea, 61-117 m. Type depository not indicated (?IOS). *Fissidentalium tenuicostatum* Qi & Ma, 1989. Indo-Pacific: China Sea. 61-117 m.
- tenuifissum*, *Pseudantalis* Monterosato, 1875: 20. Recent. Mediterranean. Type material not located. Junior synonym of *Fustiaria rubescens* (Deshayes, 1825) (*vide* Pilsbry & Sharp 1897: 106).
- † *tenuis*, *Dentalium* Hutton, 1873b: 1. Eocene, Otatara Group. Whangape Lake, Waikato, New Zealand; Raglan, New Zealand. Lectotype NZGS TM4806 (designated by Keyes 1972: 95).
- tenuis*, *Dentalium novemcostatum* var. Monterosato, 1878: 76 (non *tenuis* Hutton, 1873, fossil). Recent. *Nomen nudum*.
- † *tenuis*, *Helonyx* Seguenza, 1879: 118, pl. 11, fig. 50. Miocene. Reggio, Calabria, Italy. *Cadulus tenuis* (Seguenza, 1879) (*vide* Pilsbry & Sharp 1898: 239).
- † *tenuissimum*, *Dentalium* de Koninck, 1876: 117, 118, pl. 4, fig. 3; 1898: 93, 94, pl. 4i fig. 3. Devonian? Yaas, New South Wales, Australia.
- † *tenuistriata*, *Cyrtocoonella* Patruilius, 1996: 18, pl. 5, figs 8, 9. Jurassic, Bathonian/Lower Callovian. Crisul Repede, Vadu Crisului, Apuseni Mountains, northwestern Romania. Holotype IGG P-17196; paratypes IGG P-17197 (19). Remark: Patruilius tentatively referred his new species to the Scaphopoda.
- † *tenuistriatum*, *Dentalium* Rouault, 1850: 473, pl. 15, fig. 5. Eocene. Bos d'Arros, near Pau, France.
- tenuistriatum*, *Dentalium* Martin, 1880: 88, pl. 12, fig. 12. Miocene. Locality R, Tji-Karang, E of Tjieri, Kendeg district, Sukapura Regency, Java, Indonesia. Syntypes RGM 7272 (5) (*vide* Van den

- Hoek Ostende *et al.* 2002: 112, pl. 3). Junior homonym of *Dentalium tenuistriatum* Rouault, 1850; replacement name: *Fissidentalium ortus* Palmer, 1974.
- tenuistriatum*, *Dentalium* Tavera, 1942: 600. Tertiary. Arauco, Chile. *Nomen nudum*. Remarks: Feruglio (1949b: 239) cited this name, but did not validate it. We could not determine if this name was ever validated; if so, it would be a junior homonym of *Dentalium tenuistriatum* Rouault, 1850 and Martin, 1880.
- tenuistriatum*, *Dentalium klipsteini* "n.f." Zardini, 1978: 56, pl. 39, figs 19, 22, 23, pl. 40, fig. 13. Triassic, St. Cassian Formation. Cortina d'Ampezzo, Italy. Remarks: this taxon is an infrasubspecific name, pursuant to ICZN (1999) article 46.6.3, and therefore is not an available name pursuant to ICZN (1999) article 46.5. Stiller (2001: 630) erroneously used this name as a valid subspecies of *Proidentalium klipsteini* (Kittl, 1891).
- † *tenuisulcatum*, *Dentalium (Fustiaria) Hölzl*, 1962: 135, 136, pl. 8, fig. 7. Oligocene, Chattian. Isarufer am Kalvarienberg (Tölz), Bavaria, Germany. Holotype Bayerisches Staatsammlung für Paläontologie und Historische Geologie 2160 (Sammlung Hölzl).
- teramachii*, *Entalina* Habe, 1953: 299. *Nomen nudum*. Remark: validated by Kuroda & Habe *in* Habe 1963: 273, pl. 38, figs 12, 13.
- teramachii*, *Entalina* Kuroda & Habe *in* Habe, 1963: 273, pl. 38, figs 12, 13. As a *nomen nudum* in Habe (1953: 299). Recent. Tosa Bay, Shikoku, Japan, 200 m. Holotype and paratype NSMT. Junior synonym of *Megaentalina mediocarinata* (Boissevain, 1906) (*vide* Habe 1964: 42).
- teres*, *Siphodontalium* Jeffreys, 1883: 661, pl. 49, fig. 5. Recent. Type locality not specified. Syntypes BMNH 85.11.5.1318-1319 (*Porcupine* 1870 stn 16-17a [off Portugal]; stn 16: 39°55'N, 9°56'W, 994 fms [1723 m]; stn 17: 39°42'N, 9°43'W, 600-1095 fms [1095-1998 m]; stn 17a: 39°39'N, 9°39'W, 740 fms [1351 m]). *Pulsellum teres* (Jeffreys, 1883) n. comb. Eastern Atlantic: Europe. 1095-2400 m.
- † *terquemi*, *Dentalium* Richardson, 1906: 589, 590 [ex Tate MS]. Jurassic, Hettangian. Aiglemont, France. Remark: Engeser & Riedel (1992: 39) stated that this species was a *nomen dubium*.
- tersus*, *Cadulus (Cadulus)* Henderson, 1920: 149, 150, pl. 20, fig. 4. Recent. Off Barbados, State Univ. Iowa Exp. stn 51, 33 fms [60 m]. Holotype USNM 596600. *Cadulus tersus* Henderson, 1920. Western Atlantic, Caribbean. 60-137 m.
- † *teschi*, *Dentalium subrectum* subsp. Koperberg, 1931: 25, 26. Neogene/Quaternary. Locality 1 ("Clypeasterblok Noil Boenoe"); locality 2 ("Tusschen [between] Niki-Niki en [and] Horst Pené"); locality 4 ("Omgeving van Niki-Niki (gekocht van [purchased from (Mr.?) Venema]"); locality 6 ("Nono Fatoe Fekoe (gemengd met [mixed with (shells from)] Toi Oesapi Soka"), Timor. Junior synonym: *Dentalium semarangense* Altena, 1938. *Dentalium teschi* Koperberg, 1931. Remark: see under *Dentalium subrectum* Martin, 1885.
- tessellatum*, *Dentalium* Scarabino, 1995: 214, 215, figs 21a-e, 22. Recent. Philippines, RV *Coriolis* MUSORSTOM 3, stn DR140, 11°43'N, 122°34'E, 93-99 m. Holotype and 3 paratypes MNHN. Junior synonym of *Entalinopsis habutae* (Kuroda & Kikuchi, 1933) (V. Scarabino, n. syn.).
- tesseragonum*, *Dentalium* Sowerby *in* Broderip & Sowerby, 1832: 29, pl. 224, figs 21, 22. Recent. Gulf of Nicoya, Costa Rica; Puerto Portrero [Costa Rica]; Xipixapi, Colombia. Syntypes BMNH 1950.11.5.15-18. *Tesseracme tesseragona* (Sowerby *in* Broderip & Sowerby, 1832) (*vide* Pilsbry & Sharp 1897: 34). Eastern Pacific: Colombia, Costa Rica. 16-23 m.
- tetragonum*, *Dentalium (Dentalium)* Brocchi, 1814: 627, 628, pl. 15, fig. 26. Pliocene. Northern Italy. Holotype and paratype MSNM 505 (*vide* Rossi Ronchetti 1955: 342, 343, fig. 185). Junior synonyms: *Dentalium quinquangulare* Forbes, 1844 (*vide* Monterosato 1872: 27); *Siphodontalium pentagonum* M. Sars, 1865 (*vide* M. Sars 1870: 195, placing *S. pentagonum* in synonymy with *quinquangulare*); *Dentalium karrerri* Hörnes, 1875 (*vide* Pilsbry & Sharp 1898: 234). *Entalina tetragona* (Brocchi, 1814) (*vide* Monterosato 1872: 27). Eastern Atlantic: Europe; Mediterranean. 68-2664 m. Remark: Pavia (1991: 133) suggested that *Entalina viallii* Caprotti, 1962 might also be a junior synonym.
- tetrapleurum*, *Dentalium* Boissevain, 1906: 41, 42, pl. 6, fig. 37. Recent. Anchorage of Djankar, Java, *Siboga* stn 4, 7°42'S, 114°12.6'E, 9 m. Lectotype ZMA 3.06.049 (designated by Scarabino 1995: 224); paralectotype ZMA 3.06.050 (1; Ruma-Kuda Bay, Roma Island, *Siboga* stn 279, 36 m). *Tesseracme tetrapleura* (Boissevain, 1906) (*vide* Habe & Kosuge 1964: 5, as synonym of *T. quadripale*; this synonymy was rejected by Scarabino 1995: 224). Indo-Pacific: Indonesia to New Caledonia. 9-70 m.
- tetraschistum*, *Siphodontalium* Watson, 1879: 521 [Watson 1886: 15, pl. 2, fig. 8]. Recent. Anchorage off Fernando Noronha Island [Brazil], *Challenger* stn 113a, 3°57'S, 32°24'30"W, 7-25 fms [13-46 m]. Holotype BMNH 1887.2.9.66. Junior synonyms: *Siphodontalium quadridentatum* Dall, 1881; *Cadulus incisus* Bush, 1885; *Cadulus (Polyschides) quadridentatus acompsus* Henderson, 1920 (*vide* Scarabino 1980: 11). *Polyschides tetraschistus* (Watson, 1879) (*vide* Pilsbry & Sharp 1898: 148). Western Atlantic, Caribbean: North Carolina (USA) to Argentina. 0-120 m.
- tetrodon*, *Cadulus (Polyschides)* Pilsbry & Sharp, 1898: 151, 152, pl. 29, figs 14-18. Recent. 5 miles off

- Cape Florida, 8 fms [15 m]. Syntypes ANSP 71070 (5), USNM 84953, AMNH 148360. *Polyschides tetrodon* (Pilsbry & Sharp, 1898). Western Atlantic, Florida. 5-155 m. Remarks: Scarabino (1994: 310) listed this name as a junior synonym of *P. tetraschistus* (Watson, 1879), rejecting his previous conclusions (Scarabino 1980: 12) that this was a valid species. Since Scarabino (1994) did not explain why he changed his mind, and because the descriptions and comparison of *tetrodon* and *tetraschistus* given by Pilsbry & Sharp (1898) clearly indicate two distinct species, the synonymy with *tetraschistus* by Scarabino (1994) is here rejected. Boyko & Sage (1996: 31) listed the AMNH specimen as a paralectotype, although Henderson's (1920: 101) citation to ANSP 71070 as the "type" referred to a lot containing 5 specimens, without designating a lectotype.
- texasianum*, *Dentalium* Philippi, 1849: 144. Recent. Galveston, Texas. Type material not located. Junior synonym of *Paradentalium americanum* (Chenu, 1843) (*vide* Scarabino 1975: 183).
- † *thalloides*, *Dentalium* Conrad, 1833: 34, pl. 15, fig. 10. Eocene. Claiborne, Alabama, USA. Lectotype ANSP 65242 (designated by Palmer 1937: 14); paralectotype ANSP 65243 (6). Junior synonyms: *Dentalium alternatum* Lea, 1833; *Dentalium asgum* de Gregorio, 1890; *Dentalium asgum* var. *tirpum* de Gregorio, 1890; *Dentalium binixtum* de Gregorio, 1890 (*vide* Pilsbry & Sharp 1898: 218). *Dentalium thalloides* [de Gregorio, 1890: 171] is an incorrect subsequent spelling.
- † *thallus*, *Dentalium* Conrad, 1834: 142. Miocene. Suffolk, Virginia, USA. *Cadulus thallus* (Conrad, 1834) (*vide* Dall 1892: 445 and Pilsbry & Sharp 1898: 239).
- thalloides*, see *thalloides*.
- thetidis*, *Dentalium* Hedley, 1903: 327, fig. 61. Recent. 5-8 miles off Port Kembla, New South Wales, Australia, 63-75 fms [115-137 m]. Lectotype AMS C16212 (designated by Colman 1958: 141, 142 as "holotype"); paralectotypes AMS C170641 (2; off Cape Three Points, 41-50 fms [75-91 m]). *Striodentalium thetidis* (Hedley, 1903) (*vide* Scarabino 1995: 239). Indo-Pacific: Australia, Philippines. 80-242 m. Remark: Lamprell & Healy (1998: 48) listed *Entalinopsis intercostata* (Boissevain, 1906) as a junior synonym of this species.
- thielei*, *Cadulus* Plate, 1908b: 3, 4, text-figs 6-11. Recent. Deutsche Südpolar Exp. stn 56, 380-385 m. Lectotype ZMB 59726a (designated by Kilias 1995: 177); paralectotype ZMB 59726b (4). *Cadulus thielei* Plate, 1908. East Antarctica. 362-385 m.
- thomassini*, *Pulsellum* Scarabino, 1995: 321-322, figs 123, 125b. Recent. Madagascar, Northeast Banc du Geyser, BENTHEDI stn DR11, 12°16.3'S, 46°42.2'E, 2450-2300 m. Holotype MNHN; paratypes MNHN (6 from DR11; 2 from DR88, 11°46'S, 47°34'E, 3700 m; 2 from DS106, 20°28'S, 55°05'E, 1710-1730 m; 2 from DS151, 20°51'S, 56°03'E, 3240-3300 m). *Pulsellum thomassini* Scarabino, 1995. Indo-Pacific: Madagascar to New Caledonia. 1730-3716 m.
- tibanum*, *Dentalium* (*Antalis*) Nomura, 1940: 101, 102, pl. 1, fig. 11. Recent. E of Inubo-zaki, Japan, *Husa-Maru* stn 15, 40 m. Syntypes SHM 17981 (10). Junior synonym: *Antalis boissevainae* Palmer, 1974, a replacement name for *Dentalium entalis* var. *indicum* Boissevain, 1906 non *Dentalium indicum* Chenu, 1843 (*vide* Habe 1964: 19; in contrast to Habe 1963: 262, where he did not synonymize the two species). *Antalis tibana* (Nomura, 1940) (*vide* Habe 1961: 105). Indo-Pacific: Indonesia to Japan and Vanuatu. 0-200 m.
- † *tigillum*, *Dentalium* Yokoyama, 1931: 194, pl. 11, figs 5, 6. Neogene. Unetomari, Obirashibets, Teshio, Japan; Morai, near Atsuta, Ishikari, Japan. Syntype GIUT (*vide* Hanzawa *et al.* 1961: 209).
- tignum*, *Dentalium* (*Dentalium*) Colman, 1958: 141, fig. 1. Recent. 35 miles E of Sydney, New South Wales, 800 fms [1460 m]. Holotype AMS C24485; paratype AMS C170643 (27.5 miles E of Sydney, New South Wales, 550 m; *vide* Lamprell & Healy 1998: 29). Junior synonym of *Paradentalium hemileuron* (Verco, 1911) (*vide* Lamprell & Healy 1998: 29).
- tirpum*, *Dentalium asgum* var. de Gregorio, 1890: 172. Eocene. Claiborne, Alabama. Type material lost (*vide* Palmer & Brann 1965: 369). Junior synonym of *Dentalium thalloides* Conrad, 1833 (*vide* Pilsbry & Sharp 1898: 218).
- tiwhana*, *Dentalium* Dell, 1953. Not a scaphopod. See Other taxa described as Scaphopoda.
- tolmiei*, *Cadulus* Dall, 1897: 13, pl. 1, fig. 8. Recent. Near Victoria, Vancouver Island [British Columbia, Canada], 60 fms [110 m]. Holotype not located; figured paratype USNM 107613 (Shimek [1989: 235] referred to USNM 107613 as the "figured paratype", but is more likely to be the holotype, since Dall [1897] gave the measurements of a single shell; it is improbable that only a paratype would have been figured in the original). *Gadilla tolmiei* (Dall, 1897) (*vide* Pilsbry & Sharp 1898: 181). Eastern Pacific: Canada to California. 80-350 m. Remark: Emerson *in* Turgeon (1998: 55) placed this species in the genus *Polyschides*.
- tomlini*, *Dentalium* Melville, 1918: 155, 156, pl. 5, fig. 31. Recent. Karachi [Pakistan]. Syntypes BMNH 1921.1.28.36-40, NMW 1955.158.592-93 (*vide* Trew, 1987: 68). *Dentalium tomlini* Melville, 1918. Indian Ocean, India. No bathymetric data available.
- tonosum*, see *torosum*.
- † *tornatissimum*, *Dentalium* (*Episiphon*) Tate, 1899: 265, 266, pl. 8, figs 7-7a. "Miocene" (Pliocene). Gippsland Lakes, Australia. Holotype and paratype

- SAM T 1609. *Fustiaria tornatissima* (Tate, 1899) (*vide* Ludbrook 1959: 143, 144, pl. 2, figs 6, 7).
- tornatum*, *Dentalium* Watson, 1879: 518, 519 [Watson 1886: 13, pl. 2, fig. 3]. Recent. Levuka, Fiji, *Challenger* stn 173, 174, 12 fms [22 m]. Syntypes BMNH 1887.2.9.57-60 (6). Junior synonym of *Episiphon subtorquatum* (Fischer, 1871) (*vide* Scarabino 1995: 286).
- torosum*, *Dentalium* Zenker, 1836: 231, 232. Triassic. Rauhthal, near Jena, Germany. Junior synonym of *Dentalium torquatus* (Schlotheim, 1820) (*vide* Pilsbry & Sharp 1898: 228). *Dentalium tonosum* [Geinitz, 1837: caption to pl. 1, fig. 2] is an incorrect subsequent spelling.
- † *torquatus*, *Dentalites* Schlotheim, 1820: 94. Triassic, Wellenkalk. Farrenstadt, near Querfurth, Germany. *Entalis torquata* (Schlotheim, 1820) (*vide* Diener 1926: 230).
- tosaensis*, *Antalis* Habe, 1963: 264, pl. 38, fig. 2. Recent. Off Tosa Bay, Shikoku, Japan, 200 m. Holotype and paratype in NSMT. *Striodentalium tosaensis* (Habe, 1963) (*vide* Habe 1964: 23). Indo-Pacific: Japan. 200-620 m.
- † *totomiensis*, *Dentalium* (*Antalis*) Makiyama, 1931: 44, 45, pl. 1, figs 2-4. Pliocene, Hosoya Beds. Localities 522 and 523, Totomi, Ugari District, Japan. Holotype FGK (*vide* Hanzawa *et al.* 1961: 209).
- toyamaense*, *Dentalium* Kuroda & Kikuchi, 1933: 11, pl. 1, figs 5, 6. Recent. Toyama Bay, Honshu, Japan, 200-400 m. Syntypes in FGK. *Rhabdus toyamaense* (Kuroda & Kikuchi, 1933) (*vide* Steiner 1999: 154). Indo-Pacific: Japan. 200-1400 m. Remarks: the original description did not specify a holotype. Habe (1963: 269) referred to the "type and paratype specimens", but did not indicate which specimen was the "type", so this did not constitute a valid lectotype designation.
- trachea*, *Dentalium* Montagu, 1803. Not a scaphopod. See Other taxa described as Scaphopoda.
- tracheatum*, *Dentalium* (*Plagioglypta*) Boissvain, 1906: 56, 57, pl. 4, fig. 22. Recent. Indonesia, Banda Sea, *Siboga* stn 208, 05°39'S, 122°12'E, 1886 m. Lectotype ZMA 3.06.076 (designated by Scarabino 1995: 297); paralectotypes ZMA 3.06.075 (3; Flores Sea, *Siboga* stn 45, 7°24'S, 118°15.2'E, 794 m), ZMA 3.06.077 (2), ZMA 3.06.078 (11; Arafura Sea, *Siboga* stn 271, 5°46.7'S, 134°00'E, 1788 m), ZMA 3.06.079 (4; Timor Sea, *Siboga* stn 300, 10°47.6'S, 123°23.1'E, 918 m), ZMA 3.06.080 (1, second specimen probably lost; Flores Sea, *Siboga* stn 314, 7°36'S, 117°30.8'E, 694 m). Junior synonym of *Omniglypta cerina* (Pilsbry, 1905) (*vide* Habe 1964: 37; *vide* Scarabino 1995: 297).
- transiens*, *Dentalium* (*Antalis*) *kickxi* var. Steininger, 1963b: 36, 37, pl. 12, figs 1a, b [*nomen nudum* in Steininger 1963a: 34]. Burdigal, Lower Miocene. Dornergraben bei Fels am Wagram, Niederösterreich [Lower Austria, Austria]. Holotype PIUV 1663. Junior homonym of *Dentalium michelottii* var. *transiens* Boettger, 1907. Junior synonym of *Antalis kickxi* (Nyst, 1843).
- † *transiens*, *Dentalium michelotti* var. Boettger, 1907: 209. Miocene. Parau Ungurului, Valea Semini, and Valea Casilor, Kostej, Romania. Lectotype SMF XIII.1a (designated by Zilch 1934: 279, pl. 22, fig. 28). Junior homonym: *Dentalium* (*Antalis*) *kickxi* var. *transiens* Steininger, 1963. *Dentalium michelottii transiens* Boettger, 1907 (*vide* Zilch 1934: 279).
- transitorius*, *Cadulus* (*Cadulus*) Henderson, 1920: 143, 144, pl. 19, figs 6, 7. Recent. Little Bahama Bank, USBF stn 2654, 27°57'30"N, 77°27'30"W, 660 fms [1204 m]. Holotype USNM 330589; paratypes USNM 95375, USNM 108170, USNM 314821, USNM 312822, USNM 314823, USNM 323779, USNM 323813, USNM 330676, AMNH 148334 (8; USBF stn 2668, off Fernandina, Florida, 294 fms [537 m], *vide* Boyko & Sage 1996: 31), MCZ 7744. *Cadulus transitorius* Henderson, 1920. Western Atlantic, Caribbean: Bahamas to Brazil. 148-1349 m.
- translucidum*, *Dentalium* Deshayes, 1825: 362 [42 in reprint], pl. 16, fig. 26. Recent. Type locality not specified. Type material not located. *Nomen dubium*. *Laevidentalium*(?) *translucidum* (Deshayes, 1825) (*vide* Pilsbry & Sharp 1897: 99), but not in current use. Remark: generic assignment uncertain.
- translucidum*, *Dentalium* Chenu, 1843: pl. 3, fig. 12 [1852: 8]. Recent. Type locality not specified. Type material not located. Junior homonym of *Dentalium translucidum* Deshayes, 1825. Junior synonym of *Graptacme semistriata* (Turton, 1819) (*vide* Pilsbry & Sharp 1897: 90).
- † *transilvanicum*, *Siphonodentalium* Boettger, 1897: 55, 56. Miocene. Kostej and Ober-Lapugy, Banat, Romania. Lectotype SMF XIII.4a (designated by Zilch 1934: 279, pl. 22, fig. 26). *Siphonodentalium transylvanicum* Boettger, 1897 (*vide* Zilch 1934: 279).
- † *transversatum*, *Dentalium* Link, 1807: 23. [Fossil]. Sternberg, Germany.
- transversostriatum*, *Dentalium* Boissvain, 1906: 32, pl. 4, fig. 23. Recent. Indian Ocean, Off Saleyer, *Siboga* stn 212, 5°54.5'S, 120°19.2'E, 462 m. Syntypes ZMA 3.06.028-029 (3). Junior synonym of *Fissidentalium shoplandi* (Jousseaume, 1894) (*vide* Scarabino 1995: 248). Remark: V. Scarabino (*in litt.* 5.XI.2001) suggested that the status of *F. transversostriatum* vis-à-vis *F. shoplandi* requires further research.
- † *trautscholdi*, *Dentalium* Koenen, 1868: 160. Oligocene. Aral Sea. Junior synonym: *Dentalium haeringense* Dreger, 1892 (*vide* Merklin & Goncharova 1967: 118). *Dentalium* (*Coccodentalium*) *trautscholdi* Koenen, 1868 (*vide* Merklin & Goncharova 1967: 118).

- † *tredecimcostatum*, *Dentalium* (*Antale*) *novemcostatum* var. Sacco, 1897: 104, pl. 8, fig. 70 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. San Agata, Italy. Type material not mentioned by Ferrero Mortara *et al.* (1984: 305).
- tricarinatum*, *Dentalium* (*Bathoxiphus*) Boissevain, 1906: 48, 49, text-fig. 23, pl. 6, figs 40, 41. Recent. Ceram Sea, *Siboga* stn 178, 2°40'S, 128°37.5'E, 835 m. Lectotype ZMA 3.06.060 (designated by Habe 1964: 33, 34, and unnecessarily by Scarabino 1995: 316); paralectotypes ZMA 3.06.056 (1), ZMA 3.06.057 (1; Banda Sea, *Siboga* stn 208, 5°39'S, 122°12'E, 1886 m), ZMA 3.06.058 (1; Banda Sea, *Siboga* stn 211, 5°40.7'S, 120°45.5'E, 1158 m), ZMA 3.06.059 (3; Timor Sea, *Siboga* stn 300, 10°48.6'S, 123°23.1'E, 918 m). Junior synonym: *Dentalium* (*Compressidens*) *capense* Tomlin, 1931 (*vide* Scarabino 1995: 316). *Rhomboxiphus tricarinatus* (Boissevain, 1906) (*vide* Chistikov 1983: 185). Indo-Pacific: Africa to Japan and Tasman Sea. 495-4830 m.
- tricostatum*, *Dentalium* Goldfuss, 1844. Not a scaphopod. See Other taxa described as Scaphopoda.
- tridentata*, *Pertusiconcha* Chistikov, 1982a: 678-681, pl. 4, figs 2-13, pl. 5, figs 10, 11. Recent. Tasman Sea, *Mendeleev* stn 1244, 31°42.6'S, 159°00.2'E, 1640 m. Holotype IOM. *Pertusiconcha tridentata* Chistikov, 1982. Indo-Pacific: Madagascar to New Zealand. 825-2470 m.
- † *triedra*, *Serpula* Quenstedt, 1856: 200, 329, pl. 25, fig. 55. Jurassic. Dörlbach, Germany. Remarks: Quenstedt (1856: 329) suggested that this species might be referable to *Dentalium*; Richardson (1906: 590-592) suggested that this species might be a senior synonym of *Dentalium trigonalis* Moore, 1866.
- trigonale*, *Dentalium* Martin, 1885: 191, pl. 10, fig. 192; 1887: 191, pl. 10, fig. 192. Miocene. Ngembak, Java, Indonesia. Holotype RGM 7276 (*vide* Van den Hoek Ostende *et al.* 2002: 112). Junior homonym of *Dentalium trigonalis* Moore, 1866; replacement name: *Gadilina trigonaloides* Palmer, 1974.
- † *trigonalis*, *Dentalium* “?” Moore, 1866: 86, pl. 5, fig. 22. Jurassic, Middle Lias (Pliensbachian). Camerton, England, United Kingdom. Holotype Geology Museum Bath (England), M973 (*vide* Palmer, 1987a: 30). *Progadilina trigonalis* (Moore, 1866) (*vide* Emerson 1987: 30). Remark: Richardson (1906: 590-592) suggested that *Serpula triedra* Quenstedt, 1856 might be a senior synonym of *Dentalium trigonalis*.
- † *trigonaloides*, *Gadilina* Palmer, 1974b: 124. Miocene. Ngembak, Java, Indonesia. Holotype RGM 7276 (*vide* Van den Hoek Ostende *et al.* 2002: 112). Replacement name for *Dentalium trigonale* Martin, 1885 non *Dentalium trigonalis* Moore, 1866.
- trigonum*, *Dentalium* Hoeninghaus, 1831: 155. *Nomen nudum*. Tertiary. Tabbiano [Italy].
- † *triquetrum*, *Dentalium* Brocchi, 1814: 628. Pliocene. Italy. Lectotype MSNM 506 (selected by Rossi Ronchetti 1955: 340, 341, fig. 184). *Gadilina triquetra* (Brocchi, 1814) (*vide* Pavia 1991: 130, 131, pl. 7, figs 7, 8).
- triquetrum*, *Dentalium* “(?)” Tate, 1887: 193, pl. 20, fig. 3. Upper Eocene. Glauconitic sands, Adelaide bore, Kent Town, South Australia, Australia. Holotype and 6 paratypes SAM T 252A. Junior homonym of *Dentalium triquetrum* Brocchi, 1814. Replacement name: *Dentalium tatei* Sharp & Pilsbry in Pilsbry & Sharp, 1898.
- truncatum*, *Dentalium* (*Gadilina*) Boissevain, 1906: 51, text-fig. 27, pl. 6, fig. 33. Recent. Localities of syntypes: ZMA 3.06.065 (1; Celebes Sea, *Siboga* stn 90, 01°17.5'N, 118°53'E, 281 m), ZMA 3.06.066-067 (2; Arafura Sea, *Siboga* stn 256, 5°26.6'S, 132°32.5'E, 397 m). *Episiphon*(?) *truncatum* (Boissevain, 1906) (*vide* Scarabino 1995: 289). Indo-Pacific: Indonesia. 281-397 m.
- † *tryoni*, *Dentalium* Pilsbry & Sharp, 1898a: 468, 469, pl. 10, figs 5, 9, pl. 11, fig. 22. Oligocene. Dominican Republic. Syntypes ANSP 2710 (*vide* Pilsbry 1922: 399), ANSP 79570.
- tubiforme*, *Dentalium* Boissevain, 1906: 19, 20, pl. 6, fig. 5. Recent. Indonesia, *Siboga* stn 212, 05°56'S, 120°19'E, 462 m. Lectotype ZMA 3.06.013 (designated by Scarabino 1995: 310); paralectotype ZMA 3.06.012 (1; stn 159, 0°59.1'S, 129°19.2'E, 411 m). *Spadentalina tubiformis* (Boissevain, 1906) (*vide* Habe 1963: 264). Indo-Pacific: Indonesia to Japan. 200-702 m.
- tubulatum*, *Dentalium* (*Antalis*) Henderson, 1920: 56, pl. 8, fig. 5. Recent. Bahia Honda, Cuba, *Blake* stn 20, 23°02'30"N, 83°11'W, 220 fms [402 m]. Syntypes USNM 95367 (2). *Antalis tubulata* (Henderson, 1920). Western Atlantic, Caribbean. 31-536 m.
- tugaruense*, *Dentalium* Nomura & Hatai, 1940: 73, pl. 3, fig. 4. Recent. Kyūruko-sima Islands, Aomori Prefecture, Northeast Honsyū, Japan, stn 18, 40°36'N, 139°45'45"E, 103 m. Holotype SHM 10997. Junior synonym of *Entalinopsis intercostata* (Boissevain, 1906) (*vide* Habe 1963: 272).
- tumida*, see *tumidula*.
- tumidosus*, *Cadulus* Jeffreys, 1877: 156, 157. Recent. Type locality not specified. Syntypes BMNH 1885.11.5.1288-90 (3; *Porcupine*, no locality), BMNH 1877.11.28.58 (3) and USNM 169497 (1) (*Valorous*, stn 12, 56°11'N, 37°41'W, 1450 fms [2646 m]), USNM 169498 (1; *Porcupine* 1869 stn 39), USNM 169500 (18; *Porcupine*, 1870 stn 22, 26, 31, 34), USNM 169501 (15; *Porcupine* 1870 stn 16, 54°19'N, 11°50'W, 816 fms [1489 m]), USNM 169502 (many; *Porcupine* 1870 stn 17a, 39°39'N, 9°39'W, 740 fms [1351 m]), USNM 169503 (many; *Porcupine* 1870 stn 17 39°42'N, 9°43'W, 600-1095 fms [1095-1998 m]). *Cadulus tumidosus* Jeffreys, 1877. Western Atlantic:

- Caribbean to Brazil; Eastern Atlantic: Europe, Africa. 295-2853 m. Remarks: also described from Josephine Exp. (110-550 fms [201-1004 m]) and fossil outcrops at "Messina [Sicily] (Seguenza)"; these specimens were not located. Jeffreys (1883: 665) mentions a var. *minor* (*nomen nudum*) from *Porcupine* 1870 stns 17a, 22, 24, and 31-34, the types of which have not been segregated from those of the full species.
- tumidula*, *Cadulus jeffreysi* var. Jeffreys, 1883: 665. Recent. *Travailleur* Exp. 1880 [Bay of Biscay]. Syntypes USNM 175843 (21). Synonym of *Cadulus jeffreysi* (Monterosato, 1875). *Cadulus jeffreysi* var. *tumida* "Jeffreys" [Locard, 1898: 141] is an incorrect subsequent spelling.
- † *tumidum*, *Dentalium* W. D. Smith, 1913: 292, pl. 19, fig. 2. "Pleistocene or Recent shales." Locality 1054, San Rafael, Agusan River, Mindanao, Philippines.
- † *turgidus*, *Cadulus* Meyer, 1886: 65, pl. 1, fig. 10. Eocene. Matthews' Landing, Alabama, USA. Syntype USNM Paleobiology 638813 (as "holotype" in Palmer & Brann 1965: 364).
- turnerae*, *Wemersoniella* Scarabino, 1986a: 3, 4, figs 1-5, 12-16. Recent. Northwest Atlantic, *Chain* 50 stn 80, 34°49.8'N, 66°34'W, 4970 m. Holotype MCZ 293959; paratypes MCZ 293957, 293958, 293959, 293960, 293961, MHNH 14757, 14758, 14759, MNHN. *Wemersoniella turnerae* Scarabino, 1986. North Atlantic: Puerto Rican Trench to Europe. 4240-4970 m. Remarks: MCZ paratype lots not yet deposited. Scarabino (1986a: 7) listed the localities of all the lots of this species, but did not correlate the stations with the museum catalog numbers.
- † *turonienne*, *Dentalium* Woods, 1896: 96, pl. 4, figs 16, 17. Cretaceous. Chalk Rock of Winchester, Cuckhamsley and Luton, England, United Kingdom.
- † *turritum*, *Dentalium* Lea, 1833: 35, pl. 1, fig. 3. Eocene. Claiborne, Alabama, USA. Holotype ANSP 5015 (*vide* Palmer & Brann 1965: 365). *Polyschides turritus* (Lea, 1833) (*vide* Pilsbry & Sharp 1898: 239).
- tuscarorae*, *Costentalina* Chistikov, 1982b: 1316, 1317, pl. 1, figs 7, 8, pl. 3, figs 12-18, pl. 4, figs 1, 2. Recent. Off Japan, *Vitjaz* stn 3575-T, 38°02.1'N, 146°33.1'E, 5475 m. Holotype IOM; paratypes IOM (6 from stn 3575-T; 1 from stn 3198-T, 39°02.9'N, 151°50.6'E, 5817-5807 m; 1 from stn 3232-D, 33°18'N, 149°45.7'E, 6070 m; 1 from 3240-D, 37°42.5'N, 156°23.6'E, 5790 m; 1 from stn 5620-T, 44°48'N, 156°33'E, 5045-5005 m; 1 from stn 5623-T, 45°26'N, 154°59'E, 5045-4995 m; 8 from 5624-T, 45°26'N 154°12'E, 5200 m; 1 from stn 7499-T, 37°58'N, 144°12'E, 6499-6640 m). *Costentalina tuscarorae* Chistikov, 1982. Indo-Pacific: Philippines to Japan. 2050-6640 m.
- † *tutongense*, *Dentalium* (*Dentalium*) *javanum* subsp. Beets, 1984: 26, pl. 1, figs 20-23. Late Miocene. Preangerian. Near Sekurau, northern Kutai, Kalimantan Timur [East Borneo], Indonesia. Holotype RGM 315069; paratypes RGM 315068, 315070, 315071.
- † *twistringense*, *Fissidentalium* R. Janssen, 1989: 82, 84, pl. 1, figs 3-6. Miocene, Reinbekian. Twistring, Niedersachsen, Germany. Holotype SMF 308305; paratypes SMF 308306, SMF 308307, SMF 308309/200; RGM 227724.
- tya*, *Throopella* Greger, 1933. Not a scaphopod. See Other taxa described as Scaphopoda.
- tytthum*, *Siphodontalium* Watson, 1879: 520 [Watson 1886: 14, pl. 2, fig. 5]. Recent. North of Culebra Island, West Indies, *Challenger* stn 24, 18°38'30"N, 65°05'30"W, 390 fms [712 m]. Syntypes BMNH 1887.2.9.63 (4). *Siphodontalium*(?) *tytthum* Watson, 1879. Known from the type locality only.
- † *uchauxiense*, *Dentalium* Cossmann, 1897: 267, 268, pl. 2, figs 33, 34. Cretaceous, Turonian. Uchaux, Vaucluse, France.
- undatum*, *Dentalium* DeFrance, 1819. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *undecimcostata*, *Dentalium* (*Antale*) *novemcostatum* var. Sacco, 1897: 103, pl. 8, figs 66-68 [as a *nomen nudum* in Sacco 1896: 97]. Pliocene. San Agata and Astigiana, Italy. Syntypes MIGT BS.106.02.058-BS.106.02.60 (*vide* Ferrero Mortara *et al.* 1984: 305).
- † *undiferum*, *Dentalium* Koenen, 1885: 72, pl. 3, fig. 17. Paleocene. Near Copenhagen, Denmark.
- † *undulatum*, *Dentalium* Goldfuss, 1841: 3, pl. 166, fig. 8 [ex Münster MS]. Triassic. St Cassian, Tirol, Austria/Italy. *Plagioglypta undulata* (Goldfuss, 1841) (*vide* Stiller 2001: 624). Remark: also cited in Wissmann, 1841: 91, pl. 9, fig. 6.
- † *uscarianum*, *Dentalium* (*Fissidentalium*) Olsson, 1922: 338, 339 [166, 167], pl. 15, fig. 1. Miocene, Uscari Stage. Costa Rica and Panama (various localities). Holotype PRI 21115 (Rio Coches, Costa Rica) (*vide* Brann & Kent 1960: 322).
- usitatum*, *Dentalium* E. A. Smith, 1894: 168, pl. 4, figs 16, 16a. Recent. Off Colombo, Ceylon [Sri Lanka], 6°32'N, 79°37'E, 675 fms [1232 m]. Syntypes ZSI 5410 (*vide* list in BMNH), BMNH 1894.9.11.8 (1; Bay of Bengal, 597 fms [1090 m]). *Antalis usitata* (E. A. Smith, 1894) (*vide* Ludbrook 1954: 91). Indo-Pacific: Red Sea to New Caledonia. 56-1542 m.
- † *vacavillensis*, *Dentalium* Palmer, 1923: 302, 303. Middle Eocene. UCMP Locality 3573, near Vacaville, California, USA. Holotype UCMP 30593; paratypes UCMP 30594-30595.
- vagina*, *Dentalium* Jeffreys, 1877: 155. Recent. Greenland, *Valorous* stn 16, 55°10'N, 25°58'W, 1785 fms [3215 m]. Holotype USNM 174993. Junior synonym of *Antalis agilis* (G. O. Sars, 1872) (*vide* Pilsbry & Sharp 1897: 46). Remark: Jeffreys also referred to "perhaps two imperfect specimens of a *Dentalium* from Station 12, 1450 fathoms,

- [that] may belong to the same species". However, this is too tentative to consider those two specimens, now catalogued as USNM 174992 (*Valorous* stn 12, 56°11'N, 37°41'W, 1450 fms [Greenland, 2646 m]), to constitute type material.
- vagina*, *Fustiaria* Scarabino, 1995: 281, figs 71h, 87, 88i. Recent. New Caledonia, Chesterfield Islands, MUSORSTOM 5, stn DW340, 19°49'S, 158°41'E, 675-680 m. Holotype MNHN; paratypes MNHN (1 from DW341; 1 from DW357; 2 from DW46; 2 from DW49; 1 from CP290; 1 from DW468), AMS C201726 (1), NMNZ M268953 (1; DW49), USNM 890868. *Fustiaria vagina* Scarabino, 1995. Indo-Pacific: New Caledonia. 290-820 m.
- † *valangiense*, *Dentalium* Pictet & Campiche, 1864: 723, pl. 98, figs 16-18. Cretaceous, Neocomian, Valanginian. Villers-le-Lac, near Locle, Sainte-Croix, Switzerland.
- valdiviae*, *Cadulus* (*Gadila*) Jaekel, 1932: 312, fig. 11. Recent. Off Somalia, *Valdivia* stn 251, 01°41'S, 41°47'E, 693 m. Lectotype ZMB 75370a (designated by Kiliyas 1995: 177); paralectotypes ZMB 75370b (1), ZMB 75371 (1; stn 256, 01°49'S, 45°29.5'E, 1134 m). *Cadulus valdiviae* Jaekel, 1932. Indian Ocean, Africa. 693-1134 m.
- valdiviae*, *Dentalium* (*Antalis*) Plate, 1908a: 355, 356, pl. 30, figs 38, 39. Recent. North Atlantic, S of [Wyville] Thomson Rise, *Valdivia* stn 11, 58°36.6'N, 11°33'W, 1750 m. Lectotype ZMB 61079 (designated by Kiliyas 1995: 177). *Antalis valdiviae* (Plate, 1908). Known from the type locality only. Remarks: in addition to the single well preserved specimen, Plate mentioned two incomplete specimens and a fragment that were not listed by Kiliyas (1995: 177). These specimens would constitute paralectotypes, since Plate did not specify a holotype. The description, the illustration, and the locality fit well with *Fissidentalium candidum* (Jeffreys, 1877), but we have not yet seen the types.
- vallicolens*, *Dentalium* Raymond, 1904: 123, 124. Recent. Type locality not specified; syntypes from Santa Monica Bay [California], off Redondo, Vincente (or Redondo) submerged valley, 145 fms [265 m]. Syntypes CAS 064381 (1), CAS 064383 (1), CAS 064385 (1), CAS 066519 (4); the syntypes from the following localities could not be located: stn 14, off Point Fermin, California, 100 fms [183 m]; stn 70, La Jolla submerged valley, California, 54-117 fms [99-214 m]; stn 79, off San Diego, California, 64 fms [117 m]. *Dentalium vallicolens* Raymond, 1904. Eastern Pacific: California. 154-410 m.
- † *vaningeni*, *Dentalium* n. nom. Late Cretaceous, Senonian. Near Kerak, Jordan Valley, Jordan. Syntype YPM 35573 (*vide* White 1998: 4). Replacement name for *Dentalium hexagonum* Van Ingen, 1905 non *Dentalium hexagonum* Gould, 1859.
- variabile*, *Dentalium* Deshayes, 1825: 367 [32, 33 in reprint], pl. 16, ig fig. 30. Recent. India (?). Lectotype and 163 paralectotypes MNHN (designated by Scarabino 1995: 201). Junior synonyms: *Dentalium multistriatum* Deshayes, 1825 (*vide* Scarabino 1995: 200, by First Reviser action, according to ICZN 1999: article 24); *Dentalium belcheri* Sowerby, 1860 (*vide* Habe 1963: 258). *Dentalium variabile* Deshayes, 1825. Indo-Pacific: Indonesia to Japan. 10-75 m.
- varians*, *Dentalium* (*Antalis*) *ceratum* Scarabino, 1973: 196, 197, pl. 1, figs 4, 4a-d. Recent. 24°20'S, 44°40'W, 130 m. Holotype MHNM 2702; paratypes MHNM 2703-2706. Subspecies of *Antalis cerata* (Dall, 1881). Western Atlantic: Brazil to Uruguay. 110-175 m.
- † *varicostata*, *Dentalium* Dockery in MacNeil & Dockery, 1984: 246, 247, pl. 69, figs 9, 11-16, pl. 70, figs 1-6. Lower Oligocene, Mint Spring Formation. Mississippi Geological Survey 99, Mississippi, USA. Holotype USNM Paleobiology 376680.
- † *vaughani*, *Cadulus* Dall, 1912: 6. Pleistocene. USGS stn 5850, Canal Zone, Panama. Syntypes USNM Paleobiology 214361 (numerous).
- † *vaughani*, *Dentalium* Stephenson, 1941: 252, 253, pl. 46, fig. 15. Cretaceous, Navarro Group. USGS locality 16170, Neylandville marl, on the Corsicana Road, 2.5 miles N of Corbet, Navarro County, Texas, USA. Holotype USNM Paleobiology 76765; 17 paratypes USNM Paleobiology 76766.
- vayssierei*, *Dentalium* Fenaux, 1942. Not a scaphopod. See Other taxa described as Scaphopoda.
- vemae*, *Costentalina* Scarabino, 1986b: 2, 3, figs 1-7. Recent. *Vema* stn 81 (V-17-81), 44°35'S, 44°19'W [Argentine Basin], 5332 m. Holotype AMNH 202762; paratype AMNH 202763 (1; stn 85 [V-17-85], 47°35'S, 43°21'W, 5495 m). *Costentalina vemae* Scarabino, 1986. Western Atlantic: Argentine Basin. 5332-5495 m.
- † *venezuelana*, *Fustiaria* (*Laevidentalium* "?") Weisbord, 1964: 127, 128, pl. 17, fig. 7, pl. 18, figs 7, 8. Pliocene, Playa Grande Formation. Weisbord Station W-23, north flank of Punta Gorda anticline, Venezuela. Holotype PRI 26888.
- ventricosa*, *Cadulus monterosatoi* var. Locard, 1898: 142, pl. 7, figs 19-21. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Cadulus monterosatoi* Locard, 1897.
- ventricosa*, *Cadulus tumidosus* var. Locard, 1898: 143. Recent. Type locality not specified [North Atlantic]. Type material not located. Synonym of *Cadulus tumidosus* Jeffreys, 1877.
- † *ventricosum*, *Dentalium* Bronn, 1828: 539. Miocene. Castell'Arquato, Piacenza, Italy. Junior synonym: *Siphonodentalium* (*Loxoporus*) *ligusticus* Razzore, 1896 (*vide* Pilsbry & Sharp 1898: 240). Remarks: Doderlein (1864: 98 [16]) listed this as "*Gadus ven-*

- tricosus nob.*” but this was merely a new generic combination, not a new species. *Gadila ventricosa* (Bronn, 1828) (*vide* Pavia 1991: 139-144, pl. 8, figs 9-14; table 4; text-fig. 7). This species was misidentified as *Dentalium coarctatum* by Lamarck, 1818.
- ventricosus*, *Gadus* Benoist, 1873: 269. Miocene. Giradueau, France. Junior secondary homonym of *Cadulus ventricosus* (Bronn, 1828). Replacement name: *Gadila benoisti* Cossmann & Peyrot, 1917.
- † *venustus*, *Dentalium* Meek & Worthen, 1861: 145. Carboniferous. Waterloo, Monroe County, Illinois, USA.
- verconis*, *Dentalium* (*Fissidentalium*) Cotton & Ludbrook, 1938: 221, 222, pl. 12, fig. 1. Recent. Off Beachport, South Australia, 200 fms [366 m]. Holotype SAM D 13341. *Fissidentalium verconis* (Cotton & Ludbrook, 1938). Pacific Ocean: South Australia. 150-1210 m.
- vernedei*, *Dentalium* Hanley in Sowerby, 1860: 101, pl. 223, fig. 3. Recent. Japan. Holotype UMZC I.100,760. *Pictodentalium vernedei* (Hanley in Sowerby, 1860) (*vide* Habe 1964: 16). Indo-Pacific: China, Japan. 20-128 m.
- verrilli*, *Cadulus* (*Gadila*) Henderson, 1920: 136, 137, pl. 19, fig. 13. Recent. Off Martha's Vineyard [Massachusetts], USBF stn 871, 40°02'54"N, 70°23'40"W, 115 fms [210 m]. Holotype USNM 38693; paratypes USNM 38693 (7), USNM 38694 (1; off Martha's Vineyard, USBF stn 873, 100 fms [183 m]), USNM 61144 (5), MCZ 186819 (2; USFC 871, 115 fms [210 m]), AMNH 148343 (1). *Gadila verrilli* (Henderson, 1920). Western Atlantic. 182-210 m.
- verrilli*, *Dentalium* (*Fissidentalium*) *meridionale* Henderson, 1920: 62, 63, pl. 9, fig. 3. Recent. Off George Banks, USBF stn 2083, 959 fms [1750 m]. Lectotype (of *solidum* Verrill) USNM 34687 (designated by Henderson 1920: 63); paralectotypes USNM 34688, USNM 34904, USNM 34911, USNM 35635, USNM 35636, USNM 35645, AMNH 148370 (3). Replacement name for *Dentalium solidum* Verrill, 1884 non *Dentalium solidum* Hutton, 1873. Junior synonym of *Fissidentalium candidum* (Jeffreys, 1877) (*vide* Pilsbry & Sharp 1897: 72).
- verrilli*, *Siphonodentalium* (*Siphonodentalium*) Henderson, 1920: 91, 92, pl. 16, figs 2, 7. Recent. Off Nantucket [Massachusetts], *Albatross* USBF stn 2710, 40°06'N, 68°01'30"W, 984 fms [1796 m]. Holotype USNM 314844; paratype MCZ 186821 (1). *Pulsellum verrilli* (Henderson, 1920) (*vide* Emerson in Turgeon 1988: 51). Western Atlantic: Massachusetts (USA). 700-1796 m.
- † *verrucosum*, *Dentalium* Eichwald, 1857: 584 [illustrated by Eichwald 1860: 1063, pl. 40, fig. 6]. Carboniferous ["Bergkalke"]. Artinsk, Urals, Russia.
- † *viallii*, *Entalina* Caprotti, 1962: 97, 98, pl. 16, figs 1-3. Lower Pliocene. Castell'Arquato, Piacenza, Italy. Holotype MSNM. Remark: Pavia (1991: 133) suggested that *Entalina viallii* might be a junior synonym of *Entalina tetragona* (Brocchi, 1815).
- vicdani*, *Fissidentalium* Kosuge, 1981: 114, 115, pl. 39, figs 5-7. Recent. Bohol, Philippines. Holotype IMT 81-36. *Fissidentalium vicdani* Kosuge, 1981. Indo-Pacific: Philippines. 448-466 m.
- † *vicksburgensis*, *Cadulus* Meyer, 1885: 463; 1886: 65, pl. 3, fig. 6. Oligocene. Vicksburg, Mississippi, USA. Syntype USNM Paleobiology 644575.
- vietnamicus*, *Polyschides* Chistikov, 1979a: 113, fig. 6. Recent. Tonking, Vietnam, VD-12 stn 1, 8 m. Holotype ZIN. *Polyschides vietnamicus* Chistikov, 1979. Indo-Pacific: Indonesia, China, Vietnam, Philippines, Borneo. 8-13 m.
- † *vinassai*, *Dentalium* Cossmann, 1912: 215. Oligocene. Replacement name for *Dentalium anceps* Vinassa de Regny, 1898 [*ex* Meneghini MS] non Sowerby, 1837.
- † *vincense*, *Dentalium* (*Antalis*) Palmer, 1947: 209, 210, pl. 26, figs 29-31. Eocene, Jackson Formation. Arkansas, USA. Holotype PRI 4468; paratypes PRI 4469, PRI 4470.
- vincentianus*, *Cadulus* (*Gadila*) Cotton & Godfrey, 1940: 338, 339, fig. 360. Recent. Holdfast Bay, St Vincent Gulf, South Australia. Holotype SAM D 13730. *Cadulus vincentianus* Cotton & Godfrey, 1940. Pacific Ocean: eastern and southern Australia; Antarctica. 4-2780 m.
- viperidens*, *Cadulus* Melvill & Standen, 1896: 314, pl. 11, fig. 79. Recent. Lifu and Uvea, Loyalty Islands, New Caledonia, beach. Syntypes MM EE 3797 (figured syntype), NMW 1955.158.594-595 (6; *vide* Trew 1987: 70, 71). *Dischides viperidens* (Melvill & Standen, 1896) (*vide* Scarabino 1995: 342). Known from the type locality only.
- virginalis*, *Cadulus* (*Gadila*) Boissevain, 1906: 72, 73, text-fig. 35, pl. 6, figs 60-64. Recent. Indonesia, Savu Sea, *Siboga* stn 52, 09°03.4'S, 119°56.7'E, 959 m. Lectotype ZMA 3.06.096 (designated by Habe 1964: 49; and unnecessarily by Scarabino 1995: 356); paralectotypes ZMA 3.06.097 (4), ZMA 3.06.098 (3 in original description; 4 *vide* R. Moolenbeek & A. N. Van der Bijl in litt. 23.VI.2000; Banda Sea, *Siboga* stn 208, 5°39'S, 122°12'E, 1886 m), ZMA 3.06.099 (1 in original description; 2 *vide* R. Moolenbeek & A. N. Van der Bijl in litt. 23.VI.2000; Arafura Sea, *Siboga* stn 271, 5°46.7'S, 134°0'E, 1788 m), ZMA 3.06.100 (2; Timor Sea, *Siboga* stn 284, 8°43.1'S, 127°16.7'E, 828 m). Junior synonym: *G. novilunata* Kira, 1955 (*vide* Habe 1963: 279). *Gadila virginalis* (Boissevain, 1906) (*vide* Scarabino 1995: 356). Indo-Pacific: Indonesia to Japan and New Caledonia. 200-3010 m. Remark: Habe (1963, 1964, 1977) included *G. novilunata* Kira, 1959 in the synonymy of *virginalis*, but Scarabino (1995: 358) stated that he "[...] prefer[s] to keep them separate pending further study".

- virginianum*, *Dentalium* Chenu, 1843: pl. 4, figs 8-8b (name and figure only). Type locality not specified. Remarks: Chenu (1852: 7), in the text, instead used *Dentalium striatum* Lamarck, 1818 for the specimen figured as "*D. virginianum*". However, Lamarck's name is a junior homonym of *D. striatum* Born, 1778. Pilsbry & Sharp (1898: 209) suggested that *D. virginianum* "may possibly be" *Dentalium mississippiense* Conrad, 1848.
- virginiae*, *Episiphon* Scarabino, 1995: 288, 289, figs 93, 95a. Recent. New Caledonia, Loyalty Islands, RV *Alis* MUSORSTOM 6, stn DW399, 20°42'S, 167°00'E, 282 m. Holotype MNHN; paratypes MNHN (9), AMS C201727, NMNZ M268954. *Episiphon virginiae* Scarabino, 1995. Known from the type locality only.
- virgula*, *Dentalium* (*Episiphon*) Hedley, 1903: 328, fig. 62. Recent. 5.8 miles off Port Kembla, New South Wales, Australia, 63-75 fms [115-137 m]. Lectotype AMS C16217 (designated by Colman 1958: 144, as "holotype"); paralectotypes AMS C170639, AMS C16215 (off Cape Three Points, New South Wales, 41-50 fms [75-91 m]), AMS C16218 (off Wata Mooli, New South Wales, 54-59 fms [99-108 m]), AMS C62225 (off Botany Bay, New South Wales, 50-52 fms [91-95 m]). Oldest available name for *Episiphon subrectum* (Jeffreys, 1883) non *Dentalium sexangulum subrecta* Cocconi, 1873. Junior synonyms: *Dentalium* (*Episiphon*) *carneum* Boissvain, 1906; *Dentalium* (*Episiphon*) *makiyamai* Kuroda & Kikuchi, 1933 (fide Scarabino 1995: 287); *Dentalium yamakawai* Yokoyama, 1927 (fide Habe 1964: 28, as *E. makiyamai*). *Episiphon virgula* (Hedley, 1903) (fide Scarabino 1995: 287). Indo-Pacific: Africa to Australia. 29-918 m.
- viridis*, *Dentalia* Perry, 1811: pl. 52, fig. 3. Recent. South Seas. Type material not located. Junior synonym of *Dentalium elephantinum* Linnaeus, 1758 (fide Habe 1964: 6).
- † *vitreum*, *Dentalium* Gmelin, 1791: 3739 [citing Schröter 1784a: 531 n. 11]. Miocene. Piedmont, Italy. *Antalis vulgaris* subsp. *vitrea* (Gmelin, 1791) (fide Pavia 1991: 122, 123, pl. 3, fig. 8); *Dentalium laevigatum* Ponsi, 1876 (tentatively, fide Sacco 1897: 101).
- vitreum*, *Dentalium* M. Sars, 1851: 178. Recent. Øksfjord, Norway, 100 fms [183 m]. Syntypes ZMO 27067. Junior homonym of *Dentalium vitreum* Gmelin, 1791 (Miocene of Northern Italy). Sacco (1897: footnote on p. 115) renamed Sars' taxon as *Dentalium exvitreum*. Now known by the first available name from its synonymy: *Siphondentalium lobatum* (Sowerby, 1860) (fide Pilsbry & Sharp 1897: 136). North Atlantic, Europe. 38-3100 m.
- † *volvulus*, *Cadulus* (*Gadila*?) Gardner, 1947: 629, 630, pl. 57, fig. 22. Oligocene. Alum Bluff Group, Chipola Formation. USGS locality 2213, 1 mile below Bailey's Ferry, Chipola River, Calhoun County, Florida, USA. Syntype USNM Paleobiology 112754 (1).
- † *vredenburgi*, *Dentalium* Cossmann & Pissarro, 1909: 82, 83, pl. 3, fig. 23. Eocene, Uppermost Ranikot Series. Jhirak, India.
- vulgare*, *Dentalium* Da Costa, 1778: 24, 25, pl. 2, fig. 10. Recent. Southern England, Scilly Islands, Cornwall, Devonshire, Hampshire. Possible syntypes MHNG 1081/57 (7). Junior synonyms: *Dentalium fasciatum* Gmelin, 1791; ?*Dentalium nebulosum* Gmelin, 1791; *Dentalium tarentinum* Lamarck, 1818; *Dentalium labiatum* Turton, 1819; *Dentalium laeve* Turton, 1819; *Dentalium striolatum* Risso, 1826; *Dentalium affine* Biondi Giunti, 1859; *Dentalium vulgaris* var. *rosea* Bucquoy, Dautzenberg & Dollfus, 1882 (fide Pilsbry & Sharp 1897: 41, 42). *Antalis vulgaris* (Da Costa, 1778) (fide Stoliczka 1868: 438). Eastern Atlantic, Mediterranean: Europe, North Africa. 5-1000 m.
- † *vulpeculum*, *Dentalium* Nardo, 1847: 101 [ex Chiereghini MS]. Fossil. "Quarnero" [Kvarner], northwestern Croatia.
- vulpidens*, *Cadulus* Watson, 1879: 524, 525 [Watson 1886: 18, pl. 3, fig. 2]. Recent. Culebra Island, *Challenger* stn 24, 18°38'30"N, 65°05'30"W, 390 fms [712 m]. Holotype BMNH 1887.2.9.72. *Gadila vulpidens* (Watson, 1879) (fide Pilsbry & Sharp 1898: 172). Western Atlantic, Caribbean. 650-712 m.
- † *vulpinum*, *Dentalium* Nardo, 1847: 101 [ex Chiereghini MS]. Fossil. "Quarnero" [Kvarner], northwestern Croatia.
- † *waccamawense*, *Dentalium* (*Antalis*?) Gardner, 1948: 179, pl. 24, fig. 1. Pliocene, Waccamaw Formation. Robinsons Landing, on the Cape Fear River, Bladen County, North Carolina, USA. Holotype USNM Paleobiology 325479.
- † *wadei*, *Dentalium* Pilsbry, 1927: 142. Upper Cretaceous, Ripley Formation. Dave Weeks property on Coon Creek, McNairy County, Tennessee, USA. Type material USNM Paleobiology 32829. Replacement name for *Dentalium intercalatum* Wade, 1926 non Gould, 1859.
- † *waihoraensis*, *Dentalium* Emerson, 1954: 184. Miocene, Altonian-Clifdenian, Ihungia Series. Waihora River, Waingaromia, Gisborne, New Zealand. Holotype NZGS TM4813; paratypes NZGS TM4814 (1), NZGS (5) (fide Keyes 1972: 97). Replacement name for *Dentalium* (*Laevidentalium*) *filum* Marwick, 1931 non Sowerby, 1860. *Laevidentalium waihoraense* (Emerson, 1954) (fide Maxwell 1988: 716).
- † *waisiunense*, *Dentalium* (*Dentalium*) Beets, 1943: 307, 308, pl. 29, figs 113-116. Upper Oligocene. Waisiu, Buton Island, Indonesia.
- † *walciodorensis*, *Entalis* de Koninck, 1883: 215, 216, pl. 49, figs 16, 17. Carboniferous. Waulsort, Pauquys and Dréhanche, Belgium. *Dentalium wal-*

- ciodorensis* (de Koninck, 1883) (*vide* Pilsbry & Sharp 1898: 233).
- † *wangwaensis*, *Cadulus* Nomura, 1935: 93 [41], pl. 6 [1], fig. 3. Pliocene. Nomura Station 14, Byoritu beds, southeast of Zyo-tusyowan, Taiwan; Nomura Station 18, Wangwa, Taiwan.
- † *wanneri*, *Dentalium* n. nom. Cretaceous. N of Oasis Dachel, Libya. Replacement name for *Dentalium bicarinatum* Wanner, 1902 non *Dentalium bicarinatum* Deshayes, 1825.
- † *watanabei*, *Dentalium* (*Fissidentalium*) Kanno, 1958: 200, 201, pl. 5, figs 7-9. Upper Oligocene to Miocene. Kanno Locality 207, riverside exposure near a fall, Nenokami, Hikokubo, Yoshida-machi, Japan (holotype); Kanno Locality 203, riverside exposure of the Shinoha-zawa, Obashira, Chichibu-city, Japan (paratype). Holotype GIUT No. 6191; paratype GIUT No. 6192.
- waterhouseae*, *Fissidentalium* Lamprell & Healy, 1998: 94, 97, figs 92E, 93F, 98. Recent. Elizabeth Reef, Tasman Sea [off New South Wales], 29°53.82'S, 159°01.65'E, 420 m. Holotype AMS C309881; paratypes AMS C311734 (1), AMS C174647 (1). *Fissidentalium waterhouseae* Lamprell & Healy, 1998. Known from the type locality only.
- watsoni*, *Cadulus* Dall, 1881: 34, 35. Recent. Off Cape San Antonio, Cuba, 413 fms [754 m]. Lectotype MCZ 7742 (designated by Henderson 1920: 120, 121); paralectotype USNM 95380 (1; Yucatan Strait, 640 fms [1168 m]). *Gadila watsoni* (Dall, 1881) (*vide* Pilsbry & Sharp 1898: 167). Western Atlantic, Caribbean: Cape Hatteras (North Carolina, USA) to Cuba. 370-1800 m.
- watsoni*, *Dentalium* (*Rhabdus*) Pilsbry & Sharp, 1897: 113, pl. 21, fig. 44. Recent. Localities of syntypes: USNM 107702 (off San Diego, California, USFC stn 2923, 32°40'30"N, 117°31'30"W, 822 fms [1500 m]), USNM 107706 (off Tillamook Bay, Oregon, USFC stn 3346, 45°30'N, 125°52'W, 786 fms [1430 m]). Junior synonym of *Rhabdus rectius* Carpenter, 1864 (*vide* Shimek 1998: 83).
- † *waynensis*, *Cadulus* Mansfield, 1940: 202, pl. 27, fig. 33. Oligocene. USGS station 14346, Lower Chickasawhay Marl, Taylor Mill Creek, 1.5 miles N of Waynesboro, Wayne County, Mississippi, USA. Holotype USNM Paleobiology 498491.
- † *weinbrechti*, *Polyschides* R. Janssen, 1989: 89, 90, pl. 2, figs 19-21. Upper Miocene. Langenfeldian, Gramian and Syltjan. Gram, Jylland, Denmark. Holotype SMF 308324; paratypes SMF 308325, SMF 308326, SMF 308327/12, SMF 255698/11, RGM 229727/12, SMF 308328/5, RGM 229728/5 (latter two lots from Flensburg-Weiche, Schleswig-Holstein, Germany).
- † *weinheimensis*, *Antalis* R. Janssen, 1989: 86-88, pl. 2, figs 14, 15. Middle Oligocene, Rupelian. Weinheim (Trift) near Alzey, Mainzer Becken, Germany. Holotype SMF 308316; paratypes SMF 308317/4, SMF 308318/5, SMF 308319/4, SMF 308320/3, SMF 308321/12, RGM 229726/2.
- weinkauffi*, *Dentalium* Dunker, 1877: 68. Recent. Japan. Holotype ZMB 101996 (*vide* Kilias 1995: 177). Junior synonym: *Antalis septentrionalis* Kuroda & Habe in Habe, 1963 (*vide* Habe 1964: 20). *Antalis weinkauffi* (Dunker, 1877) (*vide* Hirase 1931: 135). Indo-Pacific: Madagascar to China and New Caledonia. 30-500 m.
- † *weitschati*, *Baltodentalium* Engeser & Riedel, 1992: 50, 51, pl. 2, figs 3, 4, text-figs 6, 7. Jurassic, Middle Liassic, Pliensbachian. Hoisdorf, Schleswig-Holstein, Germany. Holotype GPIMH 2516/5.
- weldianum*, *Dentalium* Tenison-Woods, 1877: 140. Recent. North coast of Tasmania. Holotype TMH E1200/8541. Lamprell & Healy (1998: 172) concluded that this was an unrecognizable species.
- wellsi*, *Dentalium* (*Dentalium*) Lamprell & Healy, 1998: 52, 53, figs 44D, 45D, 49. Recent. 133 km NNW of Dampier, Western Australia, 19°28.9'-29.0'S, 116°29.4'-29.0'E, 110 m. Holotype AMS C149930; paratypes AMS C172573 (2), AMS C172572 (2; 19°00.8'S, 118°01.3'E, 157 km NNW of Port Hedland, Western Australia, 112 m), WAM 142-93 (4; 18°47'S, 117°58'E, 185 km NW of Port Hedland, north Western Australia, 154 m). *Dentalium wellsii* Lamprell & Healy, 1998. Indo-Pacific: Western Australia. 110-168 m.
- wellsiana*, *Pulsellum* (*Compressidens*) Krauter, 1972: 26-28, fig. 3a-f. Recent. 1 mile W of Georgetown, Grand Cayman Islands, outer slope of beach, 31-38 m. Holotype ANSP 320993; paratypes ANSP 300672 (5). *Compressidens wellsiana* (Krauter, 1972). Known from the type locality only.
- † *whiteavesi*, *Dentalium* (*Entalis*) Anderson & Hanna, 1935: 27, 28, pl. 6, fig. 5. Cretaceous. Between Rosario and Santa Catarina Landing, Baja California, Mexico. Holotype CAS-IP 4252. Remark: this species was misidentified as *Entalis cooperi* (Gabb, 1864) by Whiteaves (1879: 134; 1903: 372).
- whitneyae*, *Gadila* Lamprell & Healy, 1998: 152, 153, figs 155C, 156F, 159. Recent. Buchanan Island, southern side of Melville Island, near Darwin, Northern Territory, Australia, 11°49'S, 130°39'E. Holotype AMS C174636; paratypes AMS C173790 (21), AMS C173913 (19; Bowen, Queensland), AMS C173924 (5; Facing Island, Port Curtis, Queensland), AMS C173795 (1; beach below Crocodile research Station, Maningrida, Arnhem Land, Northern Territory), AMS C174637 (1; 32 km off Point Charles, Darwin, Northern Territory, 12°10'S, 130°22'E, 27-37 m), AMS C173791 (1; Port Darwin, Northern Territory). *Gadila whitneyae* Lamprell & Healy, 1998. Indo-Pacific: northern Australia. 0-238 m.
- † *wilekensi*, *Laevidentalium* Medina & del Valle, 1985: 5 (Spanish), 5, 6 (English), pl. 1, figs g, h, l-o. Upper Cretaceous, López de Bertodano

- Formation. Marambio Island, James Ross Group Islands, Antarctica. Holotype CIRGEO (Centro de Investigaciones en Recursos Geológicos) PI 242 (now housed in Museo Argentino de Ciencias Naturales, Buenos Aires, *vide* G. Pastorino *in litt.* 17.I.2001).
- wilsoni*, *Dentalium* Fraas, 1867. Not a scaphopod. See Other taxa described as Scaphopoda.
- † *wollumbillaensis*, *Dentalium* Etheridge *in* Jack & Etheridge, 1892: 483. Cretaceous. Wollumbilla, Queensland, Australia. Neotype PIRS M2430 (designated by Stilwell 1999: 220). Replacement name for *Dentalium lineatum* Moore, 1870, a junior homonym of *Dentalium lineatum* Gueranger, 1853. Objective junior synonym: *Dentalium moorei* Pilsbry & Sharp, 1898. *Fustiaria wollumbillaensis* (Etheridge *in* Jack & Etheridge, 1892) (*vide* Ludbrook 1966: 188; *vide* Stilwell 1999: 220).
- woodhousae*, *Cadulus* Lamprell & Healy, 1998: 163, 164, figs 167D, 168G, 172. Recent. Arafura Sea, 64.5 km N of Croker Island, Northern Territory, 10°17'S, 132°38'E, 65 m. Holotype AMS C174625; paratypes AMS C173679 (7). *Cadulus woodhousae* Lamprell & Healy, 1998. Indo-Pacific: northern Australia. 65-1380 m.
- woolacottae*, *Dentalium* (*Antalis*) Colman, 1958: 142, fig. 4. Recent. Cronulla, New South Wales, Australia. Holotype AMS C21230; paratypes AMS C170642 (*ex* C21230) (1), AMS C32706 (2; Middle Harbour, Sydney, New South Wales, Australia). *Dentalium woolacottae* Colman, 1958. Indo-Pacific: eastern Australia. 9-40 m.
- † *wymensis*, *Laevidentalium*“?” Kulikov, 1967: 116, pl. 1, fig. 2. Permian. Vem River, Komi Republic, Russia. Holotype Geological Institute (St Petersburg), 8758/3.
- † *xiphias*, *Dentalium* Sharp & Pilsbry *in* Pilsbry & Sharp, 1898: 219. Eocene. Paris Basin (Parnes), France. Replacement name for *Dentalium affine* Deshayes, 1861 *non* Biondi, 1859. Objective junior synonym: *Dentalium desmoulini* Le Renard, 1994. Remark: a valid species of *Dentalium* (*vide* Le Renard 1995: 175; Le Renard & Pacaud 1995: 85, as “*D. desmoulini*”).
- yamakawai*, *Dentalium* Yokoyama, 1927: 427, pl. 48, fig. 6. Pleistocene. Shinagawa, Tokyo [Japan]. Lectotype UMT CM.23906 (designated by Taki & Oyama 1954: caption to pl. 45, as “holotype”). Junior synonym of *Episiphon virgula* (Hedley, 1903) (*vide* Habe 1964: 28, as *E. makiyamai*). Remarks: reported from the Recent fauna of Japan by Nomura & Niino (1940: 63) and Nomura & Hatai (1940: 73, 74). Oyama (1973: 3) explained the lectotype designations of Taki & Oyama (1954).
- † *yasilum*, *Dentalium* Olsson, 1930: 72, pl. 12, figs 14-20. Eocene, Talara Formation. Yasila, Peru. Holotype PRI 24299; paratypes PRI 24297, PRI 24298, PRI 24300-24303 (*vide* Brann & Kent 1960: 323).
- † *yatalensis*, *Cadulus* (*Dischides*) Ludbrook, 1956: 4, 5, pl. 1, figs 3, 4. Pliocene. Weymouth's Bore, Dry Creek Sands, South Australia. Holotype SAM F 15142; paratypes SAM (28). Remark: this species was misidentified as *Cadulus mucronatus* Tate, 1887 by Ludbrook (1941).
- yateensis*, *Dischides* Scarabino, 1995: 343, figs 146, 147g. Recent. Yaté, New Caledonia, LAGON stn 619, 22°03'S, 166°54'E, 27-42 m. Holotype and paratype MNHN. *Dischides yateensis* Scarabino, 1995. Indo-Pacific: Philippines and New Caledonia. 0-42 m.
- yokohamense*, *Dentalium* Watson, 1879: 517 [Watson 1886: 11, pl. 2, fig. 1]. Recent. Yokohama, Japan, *Challenger* stn 233, 34°39'N, 135°14'E, 8-14 fms [15-26 m]. Syntypes BMNH 1887.2.9.45-47 (3). Junior synonym of *Dentalium octangulatum* Donovan, 1803 (*vide* Habe 1964: 8).
- yokoyamai*, *Dentalium* Makiyama, 1931: 44, pl. 1, fig. 1. Recent. Koshiba, Yokosuka City, Honshu, Pleistocene of Japan. Holotype KIU JC.310001 (*vide* Hanzawa *et al.* 1961: 210). *Fissidentalium yokoyamai* (Makiyama, 1931) (*vide* Kira 1959: 106). Indo-Pacific: northern Australia to China Sea. 56-504 m. Remark: this species was misidentified as *Dentalium complexum* Dall, 1895 by Yokoyama (1920).
- † *yotsukurensis*, *Dentalium* Hirayama, 1955: 109-110, pl. 4, figs 26, 28. Upper Oligocene, Uchigo Group. Hirayama Locality A15, 1 km N of Yokosuka Fishing Port, Fukushima Prefecture, Japan. Holotype GIUT 10233; paratypes GIUT 10208, 10210 (Hirayama localities A28 and A45; *vide* Hanzawa *et al.* 1961: 210).
- zanzibarensis*, *Dentalium* Plate, 1908a: 348, pl. 30, figs 35, 36. Recent. Zanzibar Channel, *Valdivia* stn 245, 05°28'S, 39°18'E, 463 m. Holotype ZMB 61092 (*vide* Kilias 1995: 177). *Compressidentalium zanzibarensis* (Plate, 1908) (*vide* Scarabino 1995: 262). Indo-Pacific: Africa to Madagascar. 463-1850 m.
- † *zecaninus*, *Cadulus* Laws, 1939: 503, pl. 63, fig. 18. Miocene. Pakaurangi Point, Kaipara Harbour, New Zealand. Holotype NZGS TM1374 (*vide* Keyes 1972: 98). *Gadila zecanina* (Laws, 1939) (*vide* Maxwell 1992: 187).
- zeidlereri*, *Laevidentalium* Lamprell & Healy, 1998: 114, figs 112E, 113F, 119, 120. Recent. 29 km SE of Scamander, Tasmania, Australia, 41°33'S, 148°36'E, 122 m. Holotype SAM D 18903. *Laevidentalium zeidlereri* Lamprell & Healy, 1998. Known from the type locality only.
- zelandicum*, *Dentalium* Sowerby, 1860: 101, pl. 223, fig. 13. Recent. New Zealand. Type material not located in BMNH. Junior synonym: *Dentalium pacificum* Hutton, 1873 (*vide* Suter 1913: 819). *Fissidentalium zelandicum* (Sowerby, 1860) (*vide* Suter 1913: 819). Indo-Pacific: New Zealand; Antarctica. 45-548 m. Remark: *Dentalium opacum*

- Sowerby, 1829 may be a senior synonym for this species (*vide* Dell 1957: 564).
- † *zephyrinum*, *Dentalium* Casey, 1903: 267. Oligocene. Red Bluff, Mississippi, USA. Lectotype USNM Paleobiology 481672 (designated by MacNeil & Dockery 1984: 247, as “holotype”).
- † *zingulai*, *Cadulus* (*Gadila*) Hodgkinson, 1974: 18, text-fig. 8v, w; pl. 1, fig. 11, pl. 2, fig. 6a, b. Middle Eocene, Claibornian Stage, Cook Mountain Formation, Wheelock Member. Little Brazos Bluff, Brazos River Valley, Brazos County, Texas, USA. Holotype USNM Paleobiology 180435; paratypes USNM Paleobiology 180447, PRI 29227, ANSP 31505.
- zonatum*, *Dentalium* “Orb.” Paetel, 1888: 594. “Jam.” [= Jamaica]. *Nomen nudum*. Remark: Pilsbry & Sharp (1898: 253) stated that this species “is unknown to us”.
- zonatus*, *Cadulus* (*Gadila*) Boissevain, 1906: 74, pl. 6, fig. 57, text-fig. 37. Recent. Banda Sea, Indonesia, *Siboga* stn 214, 06°30'S, 121°55'E, 2796 m. Lectotype ZMA 3.06.102 (designated by Scarabino 1995: 358) ; paralectotype ZMA 3.06.103 (1; Arafura Sea, *Siboga* stn 254, 05°40'S, 132°26'E, 310 m). *Gadila zonata* (Boissevain, 1906) (*vide* Scarabino 1995: 358). Indo-Pacific: Indonesia to Philippines. 195-2796 m.
- OTHER TAXA DESCRIBED
AS SCAPHOPODA
- The list of non-scapopod species erroneously described or assigned to this class, as compiled by Pilsbry & Sharp (1898) is reproduced here, supplemented by names subsequently removed from the Recent Scaphopoda. We have included the type species of the six genera – *Entalium*, *Falcula*, *Hamulus*, *Pharetrium*, *Pyrgopolon* and *Spirodentalium* that Pilsbry & Sharp (1898: 244-247) excluded from the Scaphopoda. However, we have not included any species that were subsequently described in those six genera, since they do not enter into homonymy with valid taxa of the Scaphopoda. The entry form is that of the list of genus-group and Recent species-group names. Detailed information on type localities, type material deposits and synonymy is only provided for the names removed from Scaphopoda subsequent to Pilsbry & Sharp (1898).
- abbreviatum*, *Dentalium* Deshayes, 1825: 352, pl. xviii, figs 21, 22 (“1864”: 199, pl. 3, figs 5-7). Eocene of Paris. “*Serpula*” *heptagona* Sowerby (*vide* Pilsbry & Sharp 1898: 241) (Polychaeta).
- aciculatum*, *Dentalium* Hall, 1860: 107. Middle Devonian, Marcellus Shale and Portage Groups. Manilus, New York, USA. *Coleolus aciculatus*, transferred to *Coleolus* (phylum uncertain) by Hall (1879: 190), but it may as likely be a scaphopod (*vide* Pilsbry & Sharp 1898: 240).
- acus*, *Dentalium* Eichwald, 1857: 584. Silurian [“Grauwacke”]. Putilowa [Poulkovo], near St Petersburg, Russia; near Erras, Estonia. Criconarida (Cephalopoda: Mollusca) (*vide* Kiselev 2001). Remarks: figured by Eichwald, 1860: 1062, pl. 40, fig. 10. Koken (1897: 214) remarked that Eichwald’s illustration showed an unusual irregularity in its curvature (“eine Unregelmässigkeit in der Biegung”), and questioned whether this species was referable to the Scaphopoda. Kiselev (2001) concluded that this species was actually from the Ordovician, and belongs to the Cephalopoda.
- annulata*, *Dentalium* McClelland, 1834: 629, pl. 35, figs 1-4. Ponar River, Kamaon, northern India. Remark: the biological nature of this taxon, which appears to be a trace fossil, cannot be determined.
- annulatum*, *Dentalium* Jay, 1850: 96 [ex Mighels MS] non *Dentalium annulatum* Gmelin, 1791. “Maine”. *Nomen nudum*. Remarks: Pilsbry & Sharp (1898: 240) suggested that this taxon might be a *Caecum* (Gastropoda). We know of no basis for suggesting that a *nomen nudum* could be referable to a known genus.
- antiquum*, *Dentalium* Goldfuss, 1841: 2, pl. 166, fig. 2. Devonian? Eifel Mountain, Germany. *Coleolus antiquum* (Goldfuss, 1841) (*vide* Yochelson 2002). Yochelson (2002) concluded that this species was not a scaphopod, and suggested that it be referred to *Coleolus* Hall, a calcareous “worm” tube.
- arietinum*, *Dentalium* Müller, 1776: 236. *Ditrupa arietina* (Müller) (Polychaeta) (*vide* Pilsbry & Sharp 1898: 242).
- beachportensis*, *Tesseracme* Cotton & Ludbrook, 1938: 220, pl. 12, fig. 2. Off Beachport, South Australia, 201 m. Holotype SAM D 13339. Pennatulid rhachis (Cnidaria) (*vide* Lamprell & Healy 1998: 172).
- belcheri*, *Prodentalium* Nassichuk & Hodgkinson, 1976: 1153-1156, pl. 1, figs 1-9. Early Permian, Assistance Formation. GSC Locality 246406, Lyall River, Grinnell Peninsula, Devon Island, Arctic Ocean, Canada. Holotype GSC 1377; numerous paratypes GSC 13776, 44794-44797 (Polychaeta?). Remark: Yancey (1978: 306) stated that this species “is not a species of *Prodentalium*, and probably not a scaphopod” and concluded that “it is probable that it is not a molluscan species, but a calcareous worm tube”.
- billingsi*, *Salterella* Safford, 1869: 289. Ordovician of Tennessee. Transferred to the Scaphopoda by

- Fisher (1958: 144-146). Yochelson (1968) concluded that this taxon was not scaphopod and was probably referable to the Hyolitha.
- brazieri*, *Cadulus* Finlay, 1927: 521. Princess Charlotte Bay, North East Australia, 23 m. AMS. Replacement name for *Dentalium laeve* Brazier, 1877 (*vide* Emerson 1954: 186). Both Finlay (1927: 521) and Brettnall (1921: 156) independently renamed Brazier's *laeve*, and both independently used the same replacement name, but transferred the species into different genera. Finlay named it *Cadulus brazieri*; while Brettnall had already renamed it *Ditrypa* [*sic*] *brazieri*. Thus, Finlay's replacement name is both an objective junior synonym and a secondary homonym of Brettnall's name. *Ditrypa gracillima* Grube, 1878 (Polychaeta, Serpulida) (*vide* ten Hove & Smith 1990: 107; *vide* Lamprell & Healy 1998: 172).
- browni*, *Dentalium* Hisinger, 1837: 21, pl. iv, fig. 9. Köpingsmölla, Scania [Sweden]. Types in SMNH(?). Polychaeta (*vide* Pilsbry & Sharp 1898: 246).
- bulbosum*, *Dentalium* Bronn, 1831: 85 [*nomen nudum* in Bronn 1828: 538]. Tertiary of Italy. Polychaeta (*vide* Pilsbry & Sharp 1898: 242).
- carinatum*, *Dentalium* O. G. Costa, 1851: 24. Mare di Taranto [Mediterranean Sea]. Polychaeta (*vide* Pilsbry & Sharp 1898: 242).
- cinctum*, *Dentalium* de Koninck, 1843: 318, pl. 23, fig. 3. Carboniferous, Belgium. *Orthoceras subcentrale* (de Koninck, 1843) (Cephalopoda) (*vide* Pilsbry & Sharp 1898: 241).
- cingulatus*, *Dentalites* Schlotheim, 1820: 94. Polychaeta (*vide* Pilsbry & Sharp 1898: 242).
- clausum*, *Dentalium* Turton, 1819: 39. Calves Island, Ireland. Quill of a seabird's wing feather (Vertebrata) (*vide* Pilsbry & Sharp 1898: 247; citing Forbes & Hanley, and Jeffreys).
- clava*, *Dentalium* Lamarck, 1818: 346. Fossil from Cypli, near Mons [Belgium]. Polychaeta (*vide* Pilsbry & Sharp 1898: 246).
- coarctatum*, *Dentalium* Brocchi, 1814: 628. *Ditrypa* (Polychaeta) (*vide* Pilsbry & Sharp 1898: 242).
- compressum*, *Dentalium* d'Orbigny, 1850: 233. Jurassic. Chalon-sur-Saône, France. Polychaeta. Remark: Richardson (1906: 592, 593) concluded that this species "is not a *Dentalium* at all, but the shell of a tubicolous annelid".
- corneum*, *Dentalium* Linnaeus, 1767: 1263 [no references given]. "O. Africano". *Ditrypa arietina* (Polychaeta) (*vide* Pilsbry & Sharp 1898: 242).
- "*cornicula*, *Dentalium*" – d'Orbigny 1852: index, p. 59. Indexing error for *Dentalina cornicula* (Foraminifera) (*vide* Pilsbry & Sharp 1898: 247).
- corniculum*, *Dentalium* O. G. Costa, 1851: 55, pl. 4, figs 2a-A. Caecidae (Gastropoda) (*vide* Pilsbry & Sharp 1898: 241).
- crassum*, *Dentalium* Deshayes, 1825: 373, pl. 18, fig. 20. Fossil near Mons [Belgium]. Polychaeta (*vide* Pilsbry & Sharp 1898: 246).
- crenatocinctum*, *Coleolus* Hall, 1879: 188, 189, pl. 23, figs 1-3, pl. 23A, figs 3, 4. Upper Helderberg Formation, Jamesville, Ontario County, New York. Phylum uncertain. Considered a *Dentalium* by Whitfield (*vide* Pilsbry & Sharp 1898: 241).
- cylindraceum*, *Dentalium* O. G. Costa, 1851: 39, pl. 3, fig. 10. Pliocene near Caramanico [Italy]. *Ditrypa* (Polychaeta) (*vide* Pilsbry & Sharp 1898: 242).
- cylindrica*, *Hensonella* Elliott, 1960: 229, 230, pl. 8, fig. 1. Lower Cretaceous, Surdash, Sulemania Liwa, Iraq. Syntypes BMNH (Palaeontology) No. Z.902. Remarks: this species was also recorded from the Lower Cretaceous of Iraqi Kurdistan and at Kirkuk, as well as northern Iran. Elliot (1960) removed the species from the dasyclad alga and tentatively placed it in the Scaphopoda. The microstructure of the tube does not resemble that of scaphopod shells, therefore it is unlikely to belong to this taxon.
- cylindricum*, *Dentalium* J. Sowerby, 1814: 179, 180, pl. 79, fig. 2. Eocene. Emsworth, England. *Ditrypa* (Polychaeta) (*vide* Pilsbry & Sharp 1898: 242). Remark: Gardner (1878: 57, 61) noted that the type locality was given in error as "Exmouth" and hence this species was mistakenly assumed to be Cretaceous, and not Eocene.
- deforme*, *Dentalium* Lamarck, 1818: 344. Fossil, Sarthe, France. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- deshayesianum*, *Dentalium* Galeotti, 1837: 62, 150, pl. 4, fig. 7. Tertiary. Belgium (numerous localities). Polychaeta (*vide* Pilsbry & Sharp 1898: 242). Remark: Galeotti (1837: 192), under "Corrections", listed his new species as a junior synonym of *Dentalium incrassatum* J. Sowerby, 1814 (Polychaeta).
- difforme*, *Dentalium* J. de C. Sowerby in Dixon, 1850: 348, pl. xxix, fig. 10. Sussex, England. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- duplicatum*, *Dentalium* Blainville, 1825: 628. Polychaeta (*vide* Pilsbry & Sharp 1898: 245, 246). Remark: Pilsbry & Sharp (1898: 245) explained that Blainville, in using "*Entale*" DeFrance [= *Entalium* DeFrance, 1819], changed the name of the type species, "for some occult reason", from *Entalium rugosum* to *Dentalium duplicatum*.
- ecostatum*, *Dentalium* Kirk, 1880: 306, 307. Waikanae, New Zealand. Although Dell (1957: 566) and Powell (1976: 121) considered this to be a scaphopod, Marshall (1996: 32) concluded that it was the shell of a planktonic gastropod, *Creseis acicula* (Rang, 1829) (Cavoliniidae).
- edoense*, *Dentalium* Tokunaga, 1906: 34, 35, pl. 2, fig. 17. Shinagawa and Oji, Tokyo [Pleistocene of Japan]. *Ditrypa arietina* (Polychaeta) (*vide* Habe 1963: 12).
- falcatum*, *Dentalium* Conrad, 1869: 44, pl. 1, figs 12, 16. Cretaceous. Crosswicks, New Jersey [USA]. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- florenciae*, *Dentalium* Moraes Rego, 1936: 43-46, text-figure. Corumbataí Formation (Triassic?), Guareí,

- southern Sao Paulo province, Brasil. Holotype (Paleontology Section, Departamento Nacional da Produção Mineral (DNPM), Rio de Janeiro, Brasil). Remark: Wehmuth Ragonha & da Silva Santos (1987: 2) determined that this fossil was actually an external impression of a dorsal fin-spine of *Hybodus*, a fossil shark (elasmobranch).
- fragile*, *Pharetrium* König, 1825: 4, pl. 7, fig. 80. Cretaceous. Mount San Petri (Italy?). Polychaeta (*vide* Pilsbry & Sharp 1898: 245, 246).
- giganteum*, *Dentalium* Phillips, 1829: 164, pl. 14, fig. 8; 1835: 136, pl. 14, fig. 8. Jurassic, Liassic. Marlstone, Yorkshire, England. Holotype Yorkshire Museum 1998/718. *Ditrupa*-like serpulid polychaete (*vide* Palmer 2001: 253-255). Remark: this species was originally described as *Dentalia giganteum*.
- glabrum*, *Dentalium* Montagu, 1803: 497. *Caecum glabrum* (Montagu) (Gastropoda) (*vide* Pilsbry & Sharp 1898: 241).
- gordonis*, *Cadulus* Yokoyama, 1920: 104, pl. 6, figs 25, 26. Miyata and Naganuma Zones [Pliocene of Japan]. Lectotype UMT CM.20329 (designated by Taki & Oyama 1954: caption to pl. 7, as "holotype"); paralectotype UMT CM.20328. *Ditrupa arietina* (Polychaeta) (*vide* Habe 1963: 12). Remark: Oyama (1973: 3) explained the lectotype designations of Taki & Oyama (1954).
- goreanum*, *Dentalium* Clessin, 1896: 42, pl. 10, figs 9, 10. Gorée [Senegal]. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- hamatum*, *Dentalium*? Forbes, 1846: 138, pl. xv, fig. 8. Trichinopoli [Tiruchchirappalli, Cretaceous of southern India]. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- "*hamatus*", *Dentalium* – Conrad 1870b: 77. Error for *Dentalium falcatus* Conrad, 1869 (Polychaeta) (*vide* Pilsbry & Sharp 1898: 244, 245).
- howardensis*, *Clavulites* Girty, 1904: 732, 733, pl. 47, figs 4-11. Burlingame Shale, Howard, Kansas, USA (Carboniferous). Type material USNM Paleontology 35134. Tentatively placed in the serpulid polychaetes by Yochelson (1971).
- imporforatum*, *Dentalium* G. Adams, 1798: 635, pl. 14, fig. 8 [ex E. Jacob MS]. Sandwich, England, United Kingdom. This taxon appears to be a juvenile *Caecum* (Gastropoda) or possibly even a microscopic Protista. It is likely that the usage of this name by Montagu (1803: 496) and by Turton (1819: 39) for a species of *Caecum* (*vide* Pilsbry & Sharp 1898: 241) were merely reiterations of G. Adams' name, and not new species.
- incrassatum*, *Dentalium* J. Sowerby, 1814: 180, pl. 79, figs 3, 4. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- incurvum*, *Dentalium* Renier, 1804: xii, xx. Polychaeta (*vide* Pilsbry & Sharp 1898: 243). Remark: Renier's publication was placed on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature* (ICZN 1954, Opinion 316), so this name is not available.
- indistinctum*, *Dentalium* Fleming, 1825: 241, pl. ix, fig. 2. West Lothian [Scotland], Carboniferous. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- inornatum*, *Dentalium* McCoy in Griffith, 1844: 47, pl. 5, fig. 30. Carboniferous. Ireland. Possible type material National Museum of Ireland, NMING F19087, NMING F4983 and NMING 19806 (*vide* Holland & Yochelson 2000). "*Ortoceras*" (Cephalopoda) (*vide* Holland & Yochelson 2000). Remark: Holland & Yochelson (2000) stated that "we suggest that [this taxon] be confined to use with the type material in the National Museum of Ireland noted above".
- intestiniforme*, *Dentalium* Hanley, 1860: 89 [49] [ex Linnaeus MS]. Published in synonymy of *Vermetus gigas*. *Thylacodes polyphragma* (Sassi, 1827) (Gastropoda: Vermetidae) (*vide* Mörch 1862: 66; Pilsbry & Sharp 1898: 241).
- jungii*, "*Dentalium*" – d'Orbigny 1852: index, p. 59. Lapsus for *Fusus jungii* (*vide* Pilsbry & Sharp 1898: 241).
- laeve*, *Dentalium* Brazier, 1877: 59. Darnley Island, Torres Strait [northern Australia]. Lectotype AMS C7525 (designated by Ponder & Stanbury 1972: 53) and paralectotypes (from Darnley Island and elsewhere). Junior homonym of *Dentalium laeve* (Schlotheim, 1820). Replacement name: *Ditrupa [sic] brazieri* Bretnall, 1921 (= *Ditrupa gracillima* Grube, 1878 (Polychaeta, Serpulida) (*vide* ten Hove & Smith 1990: 107; *vide* Lamprell & Healy 1998: 172). Remark: Finlay's (1927: 521) replacement name for *Dentalium laeve* Brazier, 1877, *Cadulus brazieri*, is both an objective junior synonym and a secondary homonym of Bretnall's name.
- ludbrooki*, *Dentalium* (*Gadilina*) Caprotti, 1962: 96, 97, pl. 16, figs 4-6. Pliocene. Castell'Arquato, Piacenza, Italy. Holotype MSNM. *Cuvierina jagti* Janssen, 1995 (Gastropoda) (*vide* Janssen 1999). Remarks: Janssen (1999) concluded that Caprotti's species was actually the shell of a planktonic pteropod (Gastropoda, Euthecosomata). Janssen also noted that Caprotti's type material was not in the Museo Civico di Storia Naturale (Milano), contrary to the original description.
- martini*, *Dentalium* Whitfield, 1882: 203. Upper Helderberg, near Dublin, Ohio [USA]. *Coleolus crenatocinctum* Hall, 1879 (phylum uncertain) (*vide* Yochelson & Goodison 1999: 634-640).
- mosae*, *Pyrgopolon* Montfort, 1808: 394-396, text-fig. Cretaceous. Maastricht, Netherlands. Polychaeta (*vide* Pilsbry & Sharp 1898: 245, 246).
- nigrofasciatum*, *Dentalium* Eichwald, 1830: 199. Pliocene, Zukowce, Volhynia [Ukraine]. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- nigrum*, *Dentalium* Lamarck, 1818: 345, 346. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- octocostatum*, *Dentalium* Fraas, 1867a: 239, pl. 4, fig. 13; 1867b: 95, pl. 1, fig. 13. Cretaceous. Marsaba,

- Palestine. Polychaeta (*vide* Pilsbry & Sharp 1898: 245). Remark: Blanckenhorn (1927: 123, 124, pl. 1, figs 2-8) considered this to be a valid species of *Dentalium*, but he did not discuss the contrary conclusion of Pilsbry & Sharp.
- onyx*, *Hamulus* Morton, 1834: 73, 74, pl. 2, fig. 8, pl. 16, fig. 5. Cretaceous. Lynch's Creek, South Carolina and Erie, Alabama, USA. Polychaeta (*vide* Pilsbry & Sharp 1898: 245).
- opiparium*, *Quasidentalium* Shimansky, 1974: 135, figs 2a-2c. Lower Carboniferous, Donets Basin [Russia]. *Coleolus* (*vide* Yochelson 1999: 63-65).
- osceola*, *Spirodentalium* Walcott, 1890: 271, 272, pl. 20, fig. 12. Upper Cambrian, Potsdam Terrane. Osceola Mills, Wisconsin, USA. Lectotype USNM Paleobiology 23853a (selected by Yochelson 1987: 66, 67, fig. 1.4); two paralectotypes USNM Paleobiology 23853b, 23853c. Remark: Yochelson (1987) concluded that this taxon was actually an open-coiled gastropod, which he referred to the Euomphaloidea.
- pellucidum*, *Dentalium* Gmelin, 1791: 3738 [citing Schröter 1783-1786: 529]. Oceano septentrionali [northern ocean]. Polychaeta (*vide* Pilsbry & Sharp 1898: 243, pl. 6, fig. 17).
- planum*, *Dentalium* J. Sowerby, 1814: 179, pl. 79, fig. 1. Bognor, England. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- pusillum*, *Dentalium* Philippi, 1836: 245. Panormi, Catania [Sicily]. "Has been referred to *Dischides politus*, but it may be a *Ditrupa*" (Pilsbry & Sharp 1898: 243).
- pygmaeus*, *Dentalium* DeFrance, 1819a: 71. *Caecum* (Gastropoda) (*vide* Pilsbry & Sharp 1898: 241).
- radicula*, *Dentalium* Lamarck, 1818: 345. Eocene. Grignon, France. Polychaeta (*vide* Pilsbry & Sharp 1898: 243).
- rudis*, ?*Dentalium* Gabb, 1873: 244. San Domingo [Dominican Republic]. Polychaeta (*vide* Pilsbry & Sharp 1898a: 474, pl. 10, figs 4, 8; Pilsbry & Sharp 1898: 243).
- rugosum*, *Dentalium* Müller, 1851: 6, pl. 3, fig. 2. Cretaceous. Lusberg, Germany. *Gastrochaena* (Bivalvia) (*vide* Holzapfel 1888: 179). Remarks: Pilsbry & Sharp (1898: 227) initially suggested that this species might belong to the Serpulidae [Polychaeta] or Teredinidae [Bivalvia]; in their addendum, Pilsbry & Sharp (1898: 255) then noted that Holzapfel (1888) had already placed this taxon in the Bivalvia.
- rugosum*, *Entalium* DeFrance, 1819b: 518. Cretaceous. Saint-Pierre, near Maastricht, Netherlands. Polychaeta (*vide* Pilsbry & Sharp 1898: 245).
- septangulare*, *Dentalium* Fleming, 1825: 240, pl. 9, fig. 1. Belfast [Ireland]. Probably "*Serpula*" *heptagona* Sowerby (Polychaeta) (*vide* Pilsbry & Sharp 1898: 243).
- septemcostatum*, *Dentalium* Abich in Trautschold, 1859: 314, 315, pl. 6, fig. 5. Eocene and Oligocene of Armenia. Probably "*Serpula*" *heptagona* Sowerby (Polychaeta) (*vide* Pilsbry & Sharp 1898: 244).
- serratum*, *Dentalium* Pictet & Roux, 1849: 150, pl. 27, fig. 12a, b. Cretaceous, Bouches-du-Rhône, France. Probably belongs to *Hamulus* (Polychaeta) (*vide* Pilsbry & Sharp 1898: 244).
- sexcarinatum*, *Dentalium* Goldfuss, 1841: 4, pl. 166, fig. 12. Cretaceous. Friedland, Silesia (Pomerania?), Germany; St Petri, Maastricht, Netherlands. Polychaeta (*vide* Pilsbry & Sharp 1898: 244).
- sexradiatum*, *Dentalium* Goldfuss – Pilsbry & Sharp 1898: 244. "Craie super. Maestricht". *Nomen nudum*. May be an incorrect subsequent spelling of *sexcarinatum* Goldfuss, 1844 (*vide* Pilsbry & Sharp 1898: 244). Remark: Pilsbry & Sharp (1898: 244) state that they "have seen no work in which this species is described".
- sowerbyi*, *Dentalium* Michelotti, 1847: 145. Miocene, Italy. Junior homonym of *Dentalium sowerbyi* Guilding, 1834. Polychaeta (*vide* Pilsbry & Sharp 1898: 244).
- spinulosum*, *Dentalium* Miller, MSS – Pilsbry & Sharp (1898: 241) cited this name in the synonymy of *Hamites spinulosus* J. Sowerby, 1818 (Cephalopoda).
- spirale*, *Dentalium* Risso, 1826b: 125; 1826b: 401. (Fossil). France. Type material presumed lost (*vide* Arnaud 1978: 135). Polychaeta. Remark: Arnaud (1978: 135) noted that Risso's unpublished illustration of the type specimen showed spiral ornamentation that is unknown in the Scaphopoda.
- strangulatum*, *Dentalium* Deshayes, 1825: 372, 373, pl. 16, fig. 28. Australian Sea?, fossil in England, France, and Italy. Polychaeta (*vide* Pilsbry & Sharp 1898: 244). *Dentalium strangulosum* "Deshayes" [Gümbel, 1861: 604] is an incorrect subsequent spelling.
- strangulosum*, see *strangulatum*.
- "*subcarinatum*", *Dentalium* "Münster in Goldfuss" – Ryckholt 1851. May be an incorrect subsequent spelling of *Dentalium sexcarinatum* Münster in Goldfuss, 1844 (*vide* Pilsbry & Sharp 1898: 244).
- subtilis*, *Cadulus* (*Gadila*) Plate, 1908a: 360, pl. 30, fig. 48. Recent. Near Dar-es-Salaam, Tanzania, *Valdivia* stn 244, 5°55.8'S, 39°1.2'E, 50 m. Lectotype ZMB 61108a (designated by Kiliass 1995: 176); paralectotypes ZMB 61108b (1), ZMB 63842 (4). Remarks: Jaeckel (1932: 310) remarked upon certain similarities with *Ditrupa* (Polychaeta), and Kiliass (1995: 176) parenthetically remarked that this taxon is probably *Ditrupa*. Plate's illustration indeed resembles a worm tube, and the taxon may have to be removed from the Scaphopoda after examination of the types.
- subulatum*, *Dentalium* Deshayes, 1825: 373, pl. 16, fig. 29. Type locality not specified. Polychaeta (*vide* Pilsbry & Sharp 1898: 244).
- tiwhana*, *Dentalium* Dell, 1953: 48, figs 17, 22. Chatham Rise, New Zealand, 361 m. *Serpula crenata*

(Ehlers, 1908) (Polychaeta, Serpulida) (*vide* ten Hove & Smith 1990: 107; *vide* Dell 1995: 21).
trachea, *Dentalium* Montagu, 1803: 497, pl. 14, fig. 10. *Caecum* (Gastropoda) (*vide* Pilsbry & Sharp 1898: 241).
tricostatum, *Dentalium* Goldfuss, 1841: 3, 4, pl. 166, fig. 11a, b. Cretaceous. Essen, Ruhr Valley, Westphalia [Germany]. Polychaeta (*vide* Pilsbry & Sharp 1898: 246).
typha, *Throopella* Greger, 1933: 373, 374, pl. 21. Upper Devonian, Cow Creek stage. Snyder Creek, central Missouri, USA. Emerson (1962: 480) and Starobogatov (1974: 8) excluded this taxon from the Scaphopoda. Starobogatov (1974) placed it in the toxemorphorid Xenonochia.
undatum, *Dentalium* DeFrance, 1819a: 72. Saint-Clément, near Angers [France]. *Ditrupa* (Polychaeta) (*vide* Pilsbry & Sharp 1898: 244).
vayssierei, *Dentalium* Fenaux, 1942: 3, text-fig. 5. Recent, 80 m, off Carro, France (Mediterranean Sea). Two syntypes (presumably in MOM). Polychaeta (*vide* V. Scarabino, *in litt.* 5.XI.2001).
wilsoni, *Dentalium* Fraas, 1867a: 239, pl. 4, fig. 12; 1867b: 95, pl. 1, fig. 12. Cretaceous. Marsaba, Palestine. Polychaeta (*vide* Pilsbry & Sharp 1898: 246). Blanckenhorn (1927: 123, 124, pl. 1, figs 2-8) listed this as a junior synonym of *Dentalium octocostatum* Fraas, 1867, which he treated as a valid species of *Dentalium*, but he did not discuss the contrary conclusion of Pilsbry & Sharp.

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APPENDIX 1

Rectification of nomenclature. Renaming of homonyms.

In the course of preparing this catalog, we identified a significant number of junior homonyms. Since the majority of scaphopod species were originally described in the genus *Dentalium*, it is not surprising that the same species name should be used twice, or even more often, for this genus. Pilsbry & Sharp (1897-1898) renamed numerous homonyms, except for several that they considered to be *nomina dubia* or otherwise invalid (e.g., “The name is preoccupied; but as this is probably not a valid species it need not be renamed”, Pilsbry & Sharp 1898: 310).

Subsequently, Emerson (1954) renamed 12 junior homonyms, and Palmer (1974b) renamed 11 junior homonyms. These authors tartly noted that nearly all of these homonyms “could have been avoided” if the authors had taken the time to consult Pilsbry & Sharp (1897-1898) before describing their new species.

We have uncovered an additional 29 junior homonyms, 13 of which are listed below and are herein renamed. Full bibliographic data for each species is given in the main catalog. There are 11 taxa that we have not renamed, although ICZN (1999) article 60.1 requires replacement names for junior homonyms that do not have an “available and potentially valid synonym”. If either the senior or the junior homonym is a dubious species due to the lack of type material, locality data, or proper descriptions, or if a junior synonym is available, we avoided introducing new names for probably invalid taxa. For each of these junior homonyms we justified our decisions in the main catalog: *Dentalium attenuatum* Sowerby, 1860 *non* Say, 1824; *Dentalium ovale* Cooke, 1928 *non* “Malm.”; *Dentalium dentalis* var. *aequicostata* Foresti, 1895 *non* *Dentalium aequicostatum* Koenen, 1892; *Dentalium angulatum* Vinassa de Regny, 1897 *non* Buckman *in* Murchison, 1845; *Dentalium annulatum* Cristofori & Jan, 1832 *non* Gmelin, 1791; *Dentalium brevifissum* Galeotti, 1837 *non* Deshayes,

1825; *Dentalium calabrum* Crema, 1910 *non* O. G. Costa, 1851; *Dentalium conicum* Seguenza, 1876 *non* Hutton, 1873; *Dentalium decemcostatum* Quaas, 1902 *non* Brazier, 1877; *Dentalium (Fustiaria) geinitzi* Koenen, 1892 *non* Böhm, 1885; *Dentalium(?) giganteum* Zenker, 1836 *non* Phillips, 1829; *Dentalium inaequicostatum* Dautzenberg, 1891 *non* Seguenza, 1879; *Dentalium (Fustiaria) inversum* Cossmann, 1915 *non* Deshayes, 1825; *Dentalium octogonum* Rayneval, Hecke & Ponzi, 1854 *non* Lamarck, 1818; *Dentalium (Entalina) mediocarinata pliocenica* Koperberg, 1931 *non* Sacco, 1897; *Dentalium rugosum* Eichwald, 1857 *non* Dunker, 1849.

Furthermore, this list of renamed homonyms does not include the numerous subspecific-rank names of Sacco (1897) and Locard, who repeatedly used the same name below the species level. Should a subsequent researcher recognize one of Sacco’s or Locard’s junior homonyms as being valid, it can then be renamed.

Further, to the best of our knowledge, only one of these junior homonyms, *Antalis inaequicostata* (Dautzenberg, 1891) can be preserved pursuant to ICZN (1999) article 23.9.1, which allows for homonyms that have been widely used in the literature to be preserved if the senior name has not been used since 1899.

Where possible, we contacted the authors of the species taxa that are junior homonyms, i.e. Rodolfo Brunet, Maria del Carmen Perrilliat and Victor Scarabino, to ascertain whether they would prefer to rename their own homonyms. Drs Perrilliat and Scarabino kindly consented to our renaming their homonyms; no reply was received from Mr Brunet, despite several inquiries.

Dentalium (Graptacme) acuticostatum Plate, 1908a *non* *Dentalium acuticostata* Deshayes, 1825. Herein renamed *Graptacme acutistriata* Steiner & Kabat, 2004.

- Dentalium annulatum* Meyer, 1886 non *Dentalium annulatum* Gmelin, 1791. Herein renamed *Dentalium parannulatum* Steiner & Kabat, 2004.
- Dentalium asperum* Brunet, 1995 non *Dentalium asperum* Michelotti, 1847. Herein renamed *Dentalium bruneti* Steiner & Kabat, 2004.
- Dentalium bicarinatum* Wanner, 1902 non *Dentalium bicarinatum* Deshayes, 1825. Herein renamed *Dentalium wanneri* Steiner & Kabat, 2004.
- Dentalium brevifissum* Brugnone, 1876 non *Dentalium brevifissum* Deshayes, 1825. Herein renamed *Dentalium brugnonesi* Steiner & Kabat, 2004.
- Dentalium duodecimcostatum* Brazier, 1877 non *Dentalium duodecimcostatum* d'Archiac, 1850. Herein renamed *Dentalium healyi* Steiner & Kabat, 2004.
- Dentalium (Laeidentalium) ellipticum* Koenen, 1892 non *Dentalium ellipticum* J. Sowerby, 1814. Herein renamed *Laeidentalium pseudellipticum* Steiner & Kabat, 2004.
- Dentalium flavum* Scarabino, 1995 non *Dentalium flavum* Henderson, 1920. Herein renamed *Dentalium scarabinoi* Steiner & Kabat, 2004.
- Dentalium hexagonum* Van Ingen, 1905 non *Dentalium hexagonum* Gould, 1859. Herein renamed *Dentalium vaningeni* Steiner & Kabat, 2004.
- Cadulus martini* Scarabino, 1995 non *Cadulus martini* Finlay, 1927. Herein renamed *Cadulus scarabinoi* Steiner & Kabat, 2004.
- Dentalium (Tesseracme) mexicanum* Perrilliat, 1975 non *Dentalium mexicanum* Girty, 1909. Herein renamed *Dentalium perrilliatiae* Steiner & Kabat, 2004.
- Dentalium minor* Stephenson, 1952 non *Dentalium caudani* var. *minor* Locard, 1898. Herein renamed *Dentalium minorinum* Steiner & Kabat, 2004.
- Dentalium polygonum* Casey, 1903 non *Dentalium polygonum* Reuss, 1844. Herein renamed *Dentalium caseyi* Steiner & Kabat, 2004.

APPENDIX 2

Arguments for the taxonomic decisions.

NEW GENERIC COMBINATIONS

Dentalium americanum Chenu, 1843 has previously been placed in *Dentalium* (e.g., Pilsbry & Sharp 1897: 22; Henderson 1920: 27; Scarabino 1975: 183). This species shows six primary ribs characteristic for the genus *Paradentalium*, whereas *Dentalium* has eight to 12 primary ribs. Therefore, we have transferred this species to *Paradentalium*.

Dentalium peruvianum Dall, 1908 has the following characters diagnostic of *Fissidentalium*: large (90 mm), almost straight shell with slightly depressed anterior aperture; a high number of primary ribs (about 26); a long and wide slit on the ventral side of the apex. In agreement with V. Scarabino (*in litt.* 6.III.2000), we have transferred this species to *Fissidentalium*.

Dentalium cancellatum Sowerby, 1860 shows six to eight primary ribs (intercalating towards the anterior aperture) intersected by raised transverse striae giving the shell a cancellated appearance typical for *Coccodentalium*. Similar patterns of

sculpture are also present in some species of *Fissidentalium* and *Compressidentalium*, both of which have more than 12 primary ribs. We, therefore, transferred this species to *Coccodentalium*.

Cadulus (Platyschides) foweyensis Henderson, 1920 has four apical lobes, two lateral and one each dorsal and ventral, separated by distinct notches. This is typical for the genus *Polyschides*. We, therefore, transferred this species to *Polyschides*.

Cadulus (Platyschides) nitidus Henderson, 1920 has four apical lobes, two lateral and one each dorsal and ventral, separated by distinct notches. This is typical for the genus *Polyschides*. We, therefore, have transferred this species to *Polyschides*.

Cadulus poculum Dall, 1889 has been transferred to the genus *Polyschides* because of the position of the maximum diameter being in the anterior third of the shell and the lateral projections at the apex indicating four apical lobes. Henderson

(1920: 108, 109) listed this species in his subgenus *Platyschides* that was synonymized with *Gadila* by Scarabino (1995). Although the placement into *Gadila* is possible due to the inadequately preserved apical features, the strongly oblique anterior aperture resembles that of several *Polyschides* species.

Cadulus (*Platyschides*) *portoricensis* Henderson, 1920 has four apical lobes typical for the genus *Polyschides*. We, therefore, have transferred this species to *Polyschides*.

Siphodentalium teres Jeffreys, 1883 has been removed from *Siphonodentalium* because it has neither more than four apical lobes nor an anterior constriction, which is diagnostic of *Siphonodentalium*. Because of the long and slightly tapering shell and the radula morphology (polygonal, unicuspidate rhachis; lateral tooth with three cusps, the posterior two being closer to each other and separated from the anterior cusp by a nodulous ridge), we have transferred this species to *Pulsellum*. The two lateral lobes at the shell apex, however, are unique among the Scaphopoda.

NEW SYNONYMIES

The following taxa have previously been recognized as a valid species, or as infrasubspecific taxa, of *Fissidentalium*: *Dentalium ergasticum* Fischer, 1883 (Pilsbry & Sharp 1897: 74, 75) and its forms *D. e.* var. *albida* Locard, 1898, *D. e.* var. *elongata* Locard, 1898, *D. e.* var. *major* Locard, 1896, *D. e.* var. *minor* Locard, 1898; *D. milneedwardsi* Locard, 1897; *D. scamnatum* Locard, 1897 (Pilsbry & Sharp 1897: 79) and its forms *D. s.* var. *alba* Locard, 1898, *D. s.* var. *minor* Locard, 1898, *D. s.* var. *subrecta* Locard, 1898. However, these taxa fall within the range of variation of *Fissidentalium capillosum* (Jeffreys, 1877), as Bernard Métévier (MNHN; unpublished, pers. comm.) has demonstrated by his comparison of available type material and additional material. The synonymy of *D. ergasticum* Fischer, 1883, *D. milneedwardsi* Locard, 1897, and *D. scamnatum* Locard, 1897 with *Fissidentalium capillosum* (Jeffreys, 1877) is, therefore, credited to B. Métévier. Note that this synonymy changes

the name of the type species of the genus *Fissidentalium* from *Fissidentalium ergasticum* to *Fissidentalium capillosum*.

Dentalium caudani Locard, 1896 and its forms *D. c.* var. *parfaiti* Locard, 1898, *D. c.* var. *intermedia* Locard, 1898, and *D. c.* var. *minor* Locard, 1898 have previously been recognized as a valid species, or as infrasubspecific taxa, of *Laevidentalium* (Pilsbry & Sharp 1897: 104). However, these taxa fall within the range of variation of *Fissidentalium candidum* (Jeffreys, 1877), as Bernard Métévier (MNHN; unpublished, pers. comm.) has demonstrated by his comparison of available type material and additional material. The synonymy of *D. caudani* Fischer, 1883 with *F. candidum* (Jeffreys, 1877) is, therefore, credited to B. Métévier.

Dentalium exuberans Locard, 1897 and its form *D. e.* var. *minor* Locard, 1898 have previously been recognized as a valid species, or as infrasubspecific taxon, of *Fissidentalium* (Pilsbry & Sharp 1897: 78, 79). However, shell shape and sculpture of these taxa are identical with the previously described *F. paucicostatum* (Watson, 1879), as Bernard Métévier (MNHN; unpublished, pers. comm.) has demonstrated by his comparison of available type material and additional material. The synonymy of *D. exuberans* Locard, 1897 with *F. paucicostatum* (Watson, 1879) is, therefore, credited to B. Métévier.

Dentalium (*Fustiaria*) *inversum* Cossmann, 1915 is placed in tentative synonymy with *Fustiaria montense* (Briart & Cornet, 1889) because it differs only in the dorsal position of the apical slit. Cossmann (1915: 7) remarked that the type specimen may be only an inverted specimen of *Fustiaria montense*. Dorsal displacement of the slit infrequently occurs in other species of the genus (G. S. pers. obs.) and is, thus, not considered sufficient to separate a species, especially since the description was based on a single specimen only.

Dentalium tessellatum Scarabino, 1995 matches the description and illustration of *Dentalium habutae* Kuroda & Kikuchi, 1933 in all details of shell shape and sculpture (V. Scarabino pers. comm., and *in litt.* 14.I.1997). *Dentalium habutae* is considered a valid species of

Entalinopsis (Habe, 1957: 13). Therefore, we credit the synonymization of *D. tessellatum* Scarabino, 1995 with *Entalinopsis habutae* (Kuroda & Kikuchi, 1933) to V. Scarabino. Since this species is known from its shell only, its systematic position remains tentative.

Cadulus (Cadulus) halius Henderson, 1920 (p. 149) falls within the range of variation of *Cadulus (Cadulus) podagrinus* Henderson, 1920 (p. 148, 149). Both taxa were described from the same sample. Examination of the type material showed that the shells are identical except for the varying length between the posterior aperture and the location of the maximum diameter. Because these differences are insignificant, we have synonymized *Cadulus halius* Henderson, 1920 with *C. podagrinus* Henderson, 1920.

Dentalium (Antalis) ceratum tenax Henderson, 1920 falls within the range of variation of the nominate species, *Antalis cerata* (Dall, 1881), and

is, therefore, placed in synonymy with the nominate species.

Cadulus (Platyschides) rushii arne Henderson, 1920 falls within the range of variation of the nominate species, *Polyschides rushii* (Pilsbry & Sharp, 1898), and is, therefore, placed in synonymy with the nominate species.

Cadulus (Gadila) agassizii var. *hatterasensis* Sharp & Pilsbry in Pilsbry & Sharp, 1898 falls within the range of variation of the nominate species, *Gadila agassizii* (Dall, 1881), and is, therefore, placed in synonymy with the nominate species.

Dentalium bartonense Palmer, 1974 is an objective junior synonym of *Dentalium acuticostata* Deshayes, 1825. Both names are replacement names for *Dentalium striatum* J. Sowerby, 1814 non Born, 1778. Palmer (1974b: 125) proposed *Dentalium bartonense* as a replacement name, apparently being unaware that Deshayes had already renamed this species.

APPENDIX 3

Generic catalog of Recent species.

The compilation of valid Recent species names is taken from Steiner & Kabat (2001) and modified according to the nomenclatural and taxonomic acts in this catalog. It alphabetically lists the species names for each genus, the authority for each taxon, and the number of valid Recent species for each genus in brackets.

Annulipulsellum Scarabino, 1986 [1]
euzkadii Scarabino, 1986

Antalis H. & A. Adams, 1854 [41]
aculeata (Sowerby, 1860)
agilis (G. O. Sars, 1872)
antillarum (d'Orbigny, 1853)
bartletti (Henderson, 1920)
berryi (Smith & Gordon, 1948)
boucheti Scarabino, 1995
cerata (Dall, 1881)
circumcincta (Watson, 1879)

dentalis (Linnaeus, 1758)
diarrhox (Watson, 1879)
disparile (d'Orbigny, 1853)
entalis (Linnaeus, 1758)
gardineri (Melvill, 1909)
glaucarena (Dell, 1953)
guillei Scarabino, 1995
inaequicostata (Dautzenberg, 1891)
inflexa (Sowerby, 1903)
infracta (Odhner, 1931)
intesi (Nicklès, 1979)
longitrorosa (Reeve, 1843)
marukawai (Otuka, 1933)
minutissima (Ludbrook, 1954)
nana (Hutton, 1873)
novemcostata (Lamarck, 1818)
occidentalis (Stimpson, 1851)
panorma (Chenu, 1843)
perinvoluta (Ludbrook, 1954)
phanea (Dall, 1895)
pilsbryi (Rehder, 1942)
porcata (Gould, 1859)

pretiosa (Sowerby, 1860)
rossati (Caprotti, 1966)
senegalensis (Dautzenberg, 1891)
suteri (Emerson, 1954)
taphria (Dall, 1889)
tibana (Nomura, 1940)
tubulata (Henderson, 1920)
usitata (E. A. Smith, 1894)
valdiviae (Plate, 1908)
vulgaris (Da Costa, 1778)
weinkauffi (Dunker, 1877)

Anulidentarium Chistikov, 1975 [1]
bambusa Chistikov, 1975

Bathoxiphus Pilsbry & Sharp, 1897 [5]
ensiculus (Jeffreys, 1877)
inexpectatus Scarabino, 1995
soyomaruuae Okutani, 1964
stanisici Lamprell & Healy, 1998
steineri Lamprell & Healy, 1998

Bathycadulus Scarabino, 1995 [1]
fabrizioi Scarabino, 1995

Cadulus Philippi, 1844 [54]
aequatorialis Jaeckel, 1932
amphora Jeffreys, 1883
ampullaceus Watson, 1879
aratus Hedley, 1899
artatus Locard, 1897
atlanticus Henderson, 1920
attenuatus Monterosato, 1875
californicus Pilsbry & Sharp, 1898
campylus Melvill, 1906
catharus Henderson, 1920
chuni Jaeckel, 1932
colliverae Lamprell & Healy, 1998
congruens Watson, 1879
cucurbitus Dall, 1881
curtus Watson, 1879
cyathoides Jaeckel, 1932
cylindratus Jeffreys, 1877
delicatulus Suter, 1913
euloides Melvill & Standen, 1901
exiguus Watson, 1879
florenciae Scarabino, 1995
gibbus Jeffreys, 1883
glans Scarabino, 1995
gracilis Jeffreys, 1877
jeffreysi (Monterosato, 1875)
labeyriei Scarabino, 1995
lunulus Dall, 1881
macleani Emerson, 1978
minusculus Dall, 1889
monterosatoi Locard, 1897
obesus Watson, 1879
occiduus Verco, 1911
ovulum (Philippi, 1844)

parvus Henderson, 1920
platei Jaeckel, 1932
platensis Henderson, 1920
podagrinus Henderson, 1920
propinquus G. O. Sars, 1878
rossoi Nicklès, 1979
rudmani Lamprell & Healy, 1998
scarabinoi Steiner & Kabat, 2004
siberutensis Jaeckel, 1932
simillimus Watson, 1879
simpsoni Henderson, 1920
sofae Scarabino, 1995
subfusiformis (M. Sars, 1865)
teliger Finlay, 1926
tersus Henderson, 1920
thielei Plate, 1908
transitorius Henderson, 1920
tumidosus Jeffreys, 1877
valdiviae Jaeckel, 1932
vincentianus Cotton & Godfrey, 1940
woodhouseae Lamprell & Healy, 1998

Calliodentalium Habe, 1964 [4]
balanoides (Plate, 1908)
callipeplum (Dall, 1889)
crocinum (Dall, 1907)
semitracheatum (Boissevain, 1906)

Chistikovia Scarabino, 1995 [1]
kermadecae Scarabino, 1995

Coccodentalium Sacco, 1896 [2]
cancellatum (Sowerby, 1860)
gemmiparum (Melvill, 1909)

Compressidens Pilsbry & Sharp, 1897 [9]
brevicornu (Sharp & Pilsbry in Pilsbry & Sharp, 1897)
comprimatum (Plate, 1908)
infimus Scarabino, 1995
kikuchii (Kuroda & Habe, 1952)
ophiodon (Dall, 1881)
platyceras (Sharp & Pilsbry in Pilsbry & Sharp, 1897)
pressum (Sharp & Pilsbry in Pilsbry & Sharp, 1897)
stearnsii (Pilsbry & Sharp, 1898)
wellsiana (Kraeuter, 1972)

Compressidentalium Habe, 1963 [10]
ceciliae Scarabino, 1995
clathratum (von Martens, 1881)
compressiusculum (Boissevain, 1906)
hungerfordi (Pilsbry & Sharp, 1897)
lardum (Barnard, 1963)
sedecimcostatum (Boissevain, 1906)
sibogae (Boissevain, 1906)
subcurvatum (E. A. Smith, 1906)
sumatrense (Plate, 1908)
zanzibarense (Plate, 1908)

Costentalina Chistikov, 1982 [7]
caymanica Chistikov, 1982

elegans Chistikov, 1982
indica Chistikov, 1982
leptoconcha Chistikov, 1982
pacifica Chistikov, 1982
tuscarorae Chistikov, 1982
vemae Scarabino, 1986

Dentalium Linnaeus, 1758 [68]
aciculum Gould, 1859
adenense Ludbrook, 1954
agassizi Pilsbry & Sharp, 1897
aprinum Linnaeus, 1767
austini Lamprell & Healy, 1998
bisexangulatum Sowerby, 1860
buccinulum Gould, 1859
burtonae Lamprell & Healy, 1998
caledonicum Scarabino, 1995
cheverti Sharp & Pilsbry in Pilsbry & Sharp, 1897
clavus Cooke, 1885
collinsae Lamprell & Healy, 1998
congoensis Plate, 1908
cookei Sharp & Pilsbry in Pilsbry & Sharp, 1897
crossieri Scarabino, 1995
curtum Sowerby, 1860
dacostianum Chenu, 1843
decemcostatum Brazier, 1877
deforgesii Scarabino, 1995
elephantinum Linnaeus, 1758
eupatrides Melvill & Standen, 1907
exmouthensis Lamprell & Healy, 1998
filosum Broderip & Sowerby, 1830
garrardi Lamprell & Healy, 1998
goffoni Lamprell & Healy, 1998
gouldii Dall, 1889
grahami Lamprell & Healy, 1998
healyi Steiner & Kabat, 2004
hedleyi Lamprell & Healy, 1998
hillae Lamprell & Healy, 1998
hyperhemileuron Verco, 1911
invalidum Emerson, 1954
javanum Sowerby, 1860
jeanae Lamprell & Healy, 1998
jelli Lamprell & Healy, 1998
katchekense Fischer-Piette & Nicklès, 1946
kathwayae Lamprell & Healy, 1998
kessneri Lamprell & Healy, 1998
laqueatum Verrill, 1885
lessoni Deshayes, 1825
letsonae Sharp & Pilsbry in Pilsbry & Sharp, 1897
leucoryx Boissevain, 1906
lochi Lamprell & Healy, 1998
majorinum Mabile & Rochebrune in Rochebrune & Mabile, 1889
mannarensis Winckworth, 1927
mediopacificensis Rehder & Ladd, 1973
michelottii Hörnes, 1856
neohexagonum Sharp & Pilsbry in Pilsbry & Sharp, 1897
obscurum Dall, 1889
obtusum Qi & Ma, 1989

octangulatum Donovan, 1803
oerstedii Mörch, 1861
oryx Boissevain, 1906
peitaihoensis King & Ping, 1935
pluricostatum Boissevain, 1906
potteri Lamprell & Healy, 1998
reevei Fischer, 1871
regularis E. A. Smith, 1903
robustum Brazier, 1877
rowei Lamprell & Healy, 1998
scarabinoi Steiner & Kabat, 2004
strigatum Gould, 1859
stumkatae Lamprell & Healy, 1998
tomlini Melvill, 1918
vallicolens Raymond, 1904
variabile Deshayes, 1825
wellsi Lamprell & Healy, 1998
woolacottae Colman, 1958

Dischides Jeffreys, 1867 [13]
atlantideus (Nicklès, 1955)
belcheri Pilsbry & Sharp, 1898
dartevellei (Nicklès, 1979)
dichelus (Watson, 1879)
hintoni Lamprell & Healy, 1998
leloeuffi (Nicklès, 1979)
minutus (H. Adams, 1872)
ovalis (Boissevain, 1906)
politus (S. Wood, 1842)
prionotus (Watson, 1879)
splendens Raines, 2002
viperidens (Melvill & Standen, 1896)
yateensis Scarabino, 1995

Entalina Monterosato, 1872 [7]
adenensis Ludbrook, 1954
dorsicostata Lamprell & Healy, 1998
inaequisculpta Ludbrook, 1954
mirifica (E. A. Smith, 1895)
platamodes (Watson, 1879)
subterlineata (Tomlin, 1931)
tetragona (Brocchi, 1814)

Entalinopsis Habe, 1957 [4]
habutae (Kuraoda & Kikuchi, 1933)
intercostata (Boissevain, 1906)
micra Scarabino, 1995
stellata Scarabino, 1995

Epirhabdoides Steiner, 1999 [1]
ivanovi Steiner, 1999

Episiphon Pilsbry & Sharp, 1897 [17]
bordaensis (Cotton & Ludbrook, 1938)
candelatum (Kira, 1959)
didymum (Watson, 1879)
filum (Sowerby, 1860)
fistula (Sowerby, 1860)
gazellae (Plate, 1908)

innumerabile (Pilsbry & Sharp, 1897)
jamiesoni Lamprell & Healy, 1998
kiaochouwanense (Tchang & Tsi, 1950)
longum (Sharp & Pilsbry in Pilsbry & Sharp, 1897)
pichoni Lamprell & Healy, 1998
sominium (Okutani, 1964)
sowerbyi (Guilding, 1834)
subtorquatum (Fischer, 1871)
truncatum (Boissevain, 1906)
virginiae Scarabino, 1995
virgula (Hedley, 1903)

Eudentalium Cotton & Godfrey, 1933 [1]
quadricostatum (Brazier, 1877)

Fissidentalium Fischer, 1885 [41]
actiniophorum Shimek, 1997
aegum (Watson, 1879)
amphialum (Watson, 1879)
candidum (Jeffreys, 1877)
capillosum (Jeffreys, 1877)
carduus (Dall, 1889)
ceras (Watson, 1879)
complexum (Dall, 1895)
concinnum (von Martens, 1878)
cornubovis (E. A. Smith, 1906)
edenensis Lamprell & Healy, 1998
elizabethae Lamprell & Healy, 1998
erosum Shimek & Moreno, 1996
eualdes (Barnard, 1963)
exasperatum (Sowerby, 1903)
franklinae Lamprell & Healy, 1998
horikoshii Okutani, 1982
kawamurai Kuroda & Habe in Habe, 1961
laterischismum Shikama & Habe, 1963
levii Scarabino, 1995
magnificum (E. A. Smith, 1896)
malayanum (Boissevain, 1906)
megathyris (Dall, 1890)
metivieri Scarabino, 1995
opacum (Sowerby, 1829)
paucicostatum (Watson, 1879)
peruvianum (Dall, 1908) n. comb.
platypleurum (Tomlin, 1931)
ponderi Lamprell & Healy, 1998
profundorum (E. A. Smith, 1894)
salpinx (Tomlin, 1931)
semivestitum (Locard, 1897)
serrulatum (E. A. Smith, 1906)
shirleyae Lamprell & Healy, 1998
shoplandi (Jousseume, 1894)
tenuicostatum Qi & Ma, 1989
verconis (Cotton & Ludbrook, 1938)
vicdani Kosuge, 1981
waterhousae Lamprell & Healy, 1998
yokoyamai (Makiyama, 1931)
zelandicum (Sowerby, 1860)

Fustiaria Stoliczka, 1868 [11]
caesura (Colman, 1958)

crosnieri Nicklès, 1979
engischista (Barnard, 1963)
gruweli (Dautzenberg, 1910)
langfordi (Habe, 1963)
liodon (Pilsbry & Sharp, 1897)
nipponica (Yokoyama, 1922)
polita (Linnaeus, 1767)
rubescens (Deshayes, 1825)
stenoschiza (Pilsbry & Sharp, 1897)
vagina Scarabino, 1995

Gadila Gray, 1847 [63]
aberrans (Whiteaves, 1887)
abruptoinflata (Boissevain, 1906)
acuminata (Tate, 1887)
acus (Dall, 1889)
aequalis (Dall, 1881)
agassizii (Dall, 1881)
amianta (Dall, 1889)
anguidens (Melvill & Standen, 1898)
angustior (Verco, 1911)
arctus (Henderson, 1920)
austinclarki (Emerson, 1951)
boissevainae (Jaekel, 1932)
bordaensis (Cotton & Godfrey, 1940)
boucheti (Nicklès, 1979)
braziliensis (Henderson, 1920)
brycei Lamprell & Healy, 1998
bushii (Dall, 1889)
carlessi Lamprell & Healy, 1998
clavata (Gould, 1859)
cobbi Lamprell & Healy, 1998
desaintlaurentae Scarabino, 1995
divae (Vélain, 1877)
dominguense (d'Orbigny, 1853)
doumenci Scarabino, 1995
elenae Scarabino, 1995
elephas (Henderson, 1920)
fraseri Nicklès, 1955
gadus (Montagu, 1803)
greenlawi (Henderson, 1920)
honoluluensis (Watson, 1879)
iota (Henderson, 1920)
ludbrookae (Cotton & Godfrey, 1940)
marchadi (Nicklès, 1979)
majori (Henderson, 1920)
minutalis Scarabino, 1995
monodonta Scarabino, 1995
nicklesi (Dell, 1964)
opportuna Kuroda & Habe in Habe, 1961
pandionis (Verrill & Smith in Verrill, 1880)
perpusilla (Sowerby in Broderip & Sowerby, 1832)
peruviana (Dall, 1908)
platystoma (Pilsbry & Sharp, 1898)
providensis (Henderson, 1920)
pseudolivae (Boissevain, 1906)
rastridens (Watson, 1879)
regularis (Henderson, 1920)
sagamiensis Kuroda, Habe & Oyama, 1971

sauridens (Watson, 1879)
senegalensis (Locard, 1897)
singaporensis (Sharp & Pilsbry in Pilsbry & Sharp, 1898)
spreti (Tate & May, 1900)
strangulata (Locard, 1897)
striata (Pilsbry & Sharp, 1898)
subcolubridens (Ludbrook, 1954)
subtilis (Plate, 1908)
subula (Henderson, 1920)
tolmiei (Dall, 1897)
verrilli (Henderson, 1920)
virginalis (Boissevain, 1906)
vulpidens (Watson, 1879)
watsoni (Dall, 1881)
whitneyae Lamprell & Healy, 1998
zonata (Boissevain, 1906)

Gadilina Foresti, 1895 [2]
insolita (E. A. Smith, 1894)
pachypleura (Boissevain, 1906)

Graptacme Pilsbry & Sharp, 1897 [16]
acutissima (Watson, 1879)
acutistriata Steiner & Kabat, 2004
africana (Sowerby, 1903)
calamus (Dall, 1889)
eboea (Conrad, 1846)
elpis (Winckworth, 1927)
inversa (Deshayes, 1825)
lactea (Deshayes, 1825)
marchadi (Nicklès, 1979)
nielseni Lamprell & Healy, 1998
novaehollandiae (Chenu, 1843)
perlonga (Dall, 1881)
secta (Deshayes, 1825)
semistriata (Turton, 1819)
splendida (Sowerby in Broderip & Sowerby, 1832)
takakoae Tsuchida & Tachi, 1999

Heteroschismoides Ludbrook, 1960 [1]
subterfissus (Jeffreys, 1877)

Laevidentalium Cossmann, 1888 [18]
ambiguum (Chenu, 1843)
arnoldi Lamprell & Healy, 1998
banale (Boissevain, 1906)
bisinuatum (André, 1896)
coruscum (Pilsbry, 1905)
eburneum (Linnaeus, 1767)
ensifforme (Chenu, 1842)
erectum (Sowerby, 1860)
gofasi Scarabino, 1995
houbricki Scarabino, 1995
jaffaensis (Cotton & Ludbrook, 1938)
largicrescens (Tate, 1899)
lebruni (Mabille & Rochebrune in Rochebrune & Mabille, 1889)
leptosceles (Watson, 1879)
lubricatum (Sowerby, 1860)

marshae Lamprell & Healy, 1998
martyi Lamprell & Healy, 1998
zeidleri Lamprell & Healy, 1998

Megaentalina Habe, 1963 [2]
cornucopiae (Boissevain, 1906)
mediocarinata (Boissevain, 1906)

Omniglypta Kuroda & Habe in Habe, 1953 [1]
cerina (Pilsbry, 1905)

Paradentalium Cotton & Godfrey, 1933 [14]
americanum (Chenu, 1843) n. comb.
angustistriatum Chistikov, 1979
flindersi (Cotton & Ludbrook, 1938)
francisense (Verco, 1911)
gradile Chistikov, 1979
hemileuron (Verco, 1911)
hexagonum (Gould, 1859)
intercalatum (Gould, 1859)
katowense (Brazier, 1877)
natalense (Barnard, 1963)
octopleuron (Verco, 1911)
pistis (Winckworth, 1940)
pseudosexagonum (Deshayes, 1825)
rudoii Scarabino, 1995

Pertusiconcha Chistikov, 1982 [2]
callithrix (Dall, 1889)
tridentata Chistikov, 1982

Pictodentalium Habe, 1963 [3]
festivum (Sowerby, 1914)
formosum (A. Adams & Reeve, 1850)
vernedei (Hanley in Sowerby, 1860)

Plagioglypta Pilsbry in Pilsbry & Sharp, 1898 [1]
pertracheata (Plate, 1908)

Polyschides Pilsbry & Sharp, 1898 [25]
andersoni Lamprell & Healy, 1998
arnaudi Scarabino, 1995
carolinensis (Bush in Verrill, 1885)
cuspidatus (Nicklès, 1979)
elongatus (Henderson, 1920)
fausta Kuroda, Habe & Oyama, 1971
foweyensis (Henderson, 1920) n. comb.
gibbosus (Verco, 1911)
grandis (Verrill, 1884)
kaiyomaruae Okutani, 1975
miamiensis (Henderson, 1920)
nedallisoni (Emerson, 1978)
nitidus (Henderson, 1920) n. comb.
olivi (Scacchi, 1835)
pelamidae Chistikov, 1979
poculum (Dall, 1889) n. comb.
portoricensis (Henderson, 1920) n. comb.
quadrifissatus (Pilsbry & Sharp, 1898)
rushii (Pilsbry & Sharp, 1898)

- sakurarii* (Kuroda & Habe *in* Habe, 1961)
spectabilis (Verrill, 1885)
sutherlandi Lamprell & Healy, 1998
tetrastichus (Watson, 1879)
tetrodon (Pilsbry & Sharp, 1898)
vietnamicus Chistikov, 1979
- Pulsellum* Stoliczka, 1868 [15]
affine (M. Sars, 1865)
beecheyi Lamprell & Healy, 1998
bushi (Henderson, 1920)
eboracense (Watson, 1879)
falklandicum (Dell, 1964)
fragile Scarabino, 1995
hige Habe, 1963
kurogenge Habe & Kosuge, 1964
lofotense (M. Sars, 1865)
occidentale (Henderson, 1920)
pusillum (Watson, 1879)
salishorum Marshall, 1980
teres (Jeffreys, 1883)
thomassini Scarabino, 1995
verrilli (Henderson, 1920)
- Rhabdus* Pilsbry & Sharp, 1897 [5]
aequatorius (Pilsbry & Sharp, 1897)
dalli (Pilsbry & Sharp, 1897)
perceptus (Mabille & Rochebrune *in* Rochebrune & Mabille, 1889)
rectius (Carpenter, 1864)
toyamaense (Kuroda & Kikuchi, 1933)
- Rhomboxiphus* Chistikov, 1983 [2]
colmani (Palmer, 1974)
tricarinatus (Boissevain, 1906)
- Sagamicadulus* Sakurai & Shimazu, 1963 [1]
elegantissimus Sakurai & Shimazu, 1963
- Schizodentalium* Sowerby, 1894 [1]
plurifissuratum Sowerby, 1894
- Siphonodentalium* M. Sars, 1859 [16]
australasiae Boissevain, 1906
booceras (Tomlin, 1926)
colubridens (Watson, 1879)
dalli (Pilsbry & Sharp, 1898)
hexaschistum (Boissevain, 1906)
isaotakii Habe, 1953
jaeckeli Scarabino, 1995
japonicum Habe, 1960
laubieri Bouchet & Warén, 1979
- lobatum* (Sowerby, 1860)
longilobatum (Boissevain, 1906)
magnum (Boissevain, 1906)
okudai Habe, 1953
promontorii (Barnard, 1963)
summa (Okutani, 1964)
tytthum Watson, 1879
- Solenoxiphus* Chistikov, 1983 [1]
striatulus Chistikov, 1983
- Spadentalina* Habe, 1963: 264 [2]
ingrata Scarabino, 1995
tubiformis (Boissevain, 1906)
- Striocadulus* Emerson, 1962 [4]
albicomatus (Dall, 1890)
ludbrookae Scarabino, 1995
pulcherrimus (Boissevain, 1906)
sagei Scarabino, 1995
- Striodentalium* Habe, 1964 [8]
chinensis Qi & Ma, 1989
concretum (Colman, 1958)
hosoi (Habe, 1963)
kanakorum Scarabino, 1995
polycostatum Qi & Ma, 1989
rhabdotum (Pilsbry, 1905)
thetidis (Hedley, 1903)
tosaensis (Habe, 1963)
- Striopulsellum* Scarabino, 1995 [3]
galathea (Knudsen, 1964)
minimum (Plate, 1908)
striatinum (Henderson, 1920)
- Tesseracme* Pilsbry & Sharp, 1898 [7]
dispar (Sowerby, 1860)
hancocki (Emerson, 1956)
philcolmani Lamprell & Healy, 1998
quadrangularis (Sowerby *in* Broderip & Sowerby, 1832)
quadruplicalis (Hanley *in* Sowerby, 1860)
tesseragona (Sowerby *in* Broderip & Sowerby, 1832)
tetrapleura (Boissevain, 1906)
- Wemersoniella* Scarabino, 1986 [4]
duartei Scarabino, 1986
indica Scarabino, 1995
knudseni Scarabino, 1995
turnerae Scarabino, 1986

APPENDIX 4
Geological catalog of fossil species.

The fossil species that are currently treated as valid – i.e. neither junior synonyms nor junior homonyms – are indexed by geological period (Paleozoic and Mesozoic) and epoch (Cenozoic). However, it must be emphasized that some of this information is based on the older literature, which may have been based on erroneous or outdated stratigraphic determinations. A question mark (“?”) before a species name indicates a doubtful placement; at the end are those elusive species described only as “fossil” but without further stratigraphic details. Many of the Pleistocene and some of the Pliocene species are also known from the Recent, as indicated in the main catalog. Generic placements are as in the original description, except for those relatively few fossil species that were subsequently transferred to other genera. The sequence of geological eras, periods, and epochs, and the assignments of stages and other subdivisions to epochs, is taken from Harland *et al.* (1990).

It must be emphasized that the majority of fossil species listed herein have not been analyzed in any substantive manner since the time of Pilsbry & Sharp (1897-1898). Hence, their inclusion in this Appendix is merely a compilation of nomenclaturally available names arranged by stratigraphic time periods. Thus, the numbers of species names for each time period should not be taken as an actual measure of paleontological diversity, which will require a modern determination of the phylogenetic validity of each described species.

PALEOZOIC

Cambrian

None

Ordovician

iowaensis, *Plagiogypta* (James, 1890)
kentuckyensis, *Rhytidentalium* Pojeta & Runnegar, 1979

Silurian

granosum, *Dentalium* Eichwald, 1857
notabile, *Dentalium* Eichwald, 1857

Devonian

applanatum, *Dentalium* Torley, 1908
crox, *Dentalium* Keyserling, 1847
ibergense, *Dentalium* Römer, 1855
patriciae, *Laevidentalium* Engeser & Riedel, 1992
?saturni, *Dentalium* Hoeninghaus, 1836
?tenuissimum, *Dentalium* de Koninck, 1876

Carboniferous

acumen, *Dentalium* (de Koninck, 1883)
acutisulcatum, *Dentalium* Gurley, 1883
annuliferum, *Dentalium* Pilsbry & Sharp, 1898
annulostriatum, *Dentalium* Meek & Worthen, 1871
barquense, *Dentalium* Winchell, 1862
batheri, *Dentalium* Finlay, 1927
chubutensis, *Dentalium* (*Laevidentalium*) Sabattini, 1979
cornu, *Dentalium* de Koninck, 1877
cyrtoceratoides, *Dentalium* (de Koninck, 1883)
dentaloideum, *Dentalium* (Phillips, 1836)
grandaevum, *Dentalium* Winchell, 1863
herculea, *Plagiogypta* (de Koninck, 1863)
illinoiensis, *Dentalium* Worthen, 1883
ingens, *Plagiogypta* (de Koninck, 1843)
kansasense, *Dentalium* (*Paleodentalium*) Gentile, 1974
longistriatum, *Fissidentalium* “?” Yoo, 1988
meekiana, *Plagiogypta* (Geinitz, 1866)
mexicanum, *Dentalium* Girty, 1909
missouriense, *Dentalium* Swallow, 1863
navicanum, *Dentalium* Ryckholt, 1851
novaresei, *Dentalium* (*Plagiogypta*) de Stefani, 1917
numerosa, *Plagiogypta* Yoo, 1988
obsoletum, *Prodentalium* (Hall, 1858)
ornatum, *Dentalium* de Koninck, 1843
orthoceras, *Dentalium* Pilsbry & Sharp, 1898
perarmatum, *Dentalium* Ryckholt, 1851
primarium, *Dentalium* Hall, 1858
priscum, *Dentalium* Goldfuss, 1841
prosseri, *Plagiogypta* Morningstar, 1922
protuberans, *Pipadentalium* Yoo, 1988
raymondi, *Prodentalium* Young, 1942
rectiusculum, *Dentalium* Eichwald, 1857
runnegari, *Scissuradentalium* Yoo, 1988
semicostatum, *Prodentalium* (Girty, 1911)
subannulata, *Plagiogypta* Easton, 1962
subcanaliculatum, *Dentalium* Sandberger & Sandberger, 1856
taeniolatum, *Dentalium* Sandberger & Sandberger, 1856
venustum, *Dentalium* Meek & Worthen, 1861
verrucosum, *Dentalium* Eichwald, 1857
walciodorensis, *Dentalium* (de Koninck, 1883)

Permian

akasakensis, *Dentalium* Hayasaka, 1925
arcturus, *Calstevenus* Yancey, 1973
canna, *Prodentalium* (White, 1874)
furcata, *Plagioglypta* “?” Waterhouse, 1980
girtyi, *Plagioglypta* Knight, 1940
komiensis, *Laevidentalium* “?” Kulikov, 1967
lanceolata, *Theca* Morris, 1845
neornatum, *Dentalium* Hayasaka, 1925
robusta, *Plagioglypta* Detre, 1993
sorbii, *Dentalium* King, 1850
sueroi, *Calstevenus* Sabbatini, 1979
wymensis, *Laevidentalium* “?” Kulikov, 1967

“Paleozoic” (period not specified)

arenarium, *Dentalium* Römer, 1855
granvillensis, *Dentalium* Herrick, 1888 (“Sub-carboniferous”)
striatus, *Prodentalium* (Romanovskii, 1890)

MESOZOIC

Triassic

angelae, *Prodentalium* Engeser & Riedel, 1992
anisicum, *Dentalium* Schnetzer, 1934
arctoides, *Dentalium* Gugenberger, 1934
arctum, *Dentalium* Pichler, 1857
bangtoupensis, *Laevidentalium* Stiller, 2001
boreale, *Dentalium* Böhm, 1904
cannaliculatum, *Dentalium* Klipstein, 1843
castellacei, *Dentalium* Scalia, 1914
cyrtoceroides, *Dentalium* Broili, 1907
decoratum, *Dentalium* Goldfuss, 1841
exile, *Dentalium* Tommasi, 1901
gallensteini, *Dentalium* Gugenberger, 1934
guizhouensis, *Plagioglypta* Stiller, 2001
herritschi, *Dentalium* Gugenberger, 1934
kahleri, *Dentalium* Gugenberger, 1934
kittli, *Dentalium* Cossmann, 1900
klipsteini, *Dentalium* Kittl, 1891
laevis, *Entalis* (Schlotheim, 1820)
?lombardicum, *Dentalium* Kittl, 1899
multicliathratum, *Dentalium* Martelli, 1905
pentagonale, *Dentalium* Pilsbry & Sharp, 1898
qingyanicum, *Prodentalium* Stiller, 2001
quadrangulum, *Dentalium* Assmann, 1937
readi, *Dentalium* Emerson, 1954
regium, *Dentalium* Assmann, 1937
schafferi, *Dentalium* Gugenberger, 1934
simile, *Dentalium* Wissmann, 1841
spitiense, *Dentalium* Gümbel, 1866
subregulare, *Dentalium* Palmer, 1974
torquata, *Entalis* (Schlotheim, 1820)
undulatum, *Dentalium* Goldfuss, 1841

Jurassic

amalthei, *Laevidentalium* (Engel, 1891)
andleri, *Dentalium* Oppel, 1856

angulatum, *Dentalium* Buckman in Murchison, 1845
bandeli, *Prodentalium* Engeser & Riedel, 1992
boonei, *Dentalium* Cossmann, 1924
calvertensis, *Prodentalium* Palmer, 1975
cinctum, *Dentalium* Goldfuss, 1841
corallinum, *Dentalium* d’Orbigny, 1850
dehmi, *Dentalium* Kuhn, 1935
etalense, *Laevidentalium* (Terquem & Piette, 1865)
filicauda, *Dentalium* Quenstedt, 1852
glabellum, *Dentalium* Blake, 1907
gladiolus, *Dentalium* Eichwald, 1846
hexagonale, *Dentalium* Richardson, 1906
jaegeri, *Suevidontis* Engeser, Riedel & Bandel, 1993
liassicum, *Prodentalium* (Moore, 1866)
limatuloides, *Baltodentalium* (Kuhn, 1935)
limatum, *Baltodentalium* (Tate, 1870)
minimum, *Laevidentalium* (Buckman in Murchison, 1845)
moreanum, *Dentalium* d’Orbigny, 1845
normanianum, *Dentalium* d’Orbigny, 1850
nudum, *Dentalium* Zekeli, 1852
oblongum, *Dentalium* Richardson, 1906
oolithicum, *Dentalium* Piette, 1856
opalina, *Dentalium* *filicauda* var. Quenstedt, 1856
ovale, *Dentalium* “Malm.” Pilsbry & Sharp, 1898
parkinsoni, *Dentalium* Quenstedt, 1852
pellati, *Laevidentalium* (Loriol in Loriol & Pellat, 1874)
portlocki, *Dentalium* Tate, 1870
quenstedti, *Dentalium* Blake, 1875
richardsoni, *Laevidentalium* (Cossmann, 1907)
rigauxi, *Fustiaria* (*Laevidentalium*) Fischer & Vadet, 1985
sabrinae, *Dentalium* Engeser & Riedel, 1992
soliticum, *Dentalium* Piette, 1855
spaethi, *Progadilina* Engeser & Riedel, 1992
subovata, *Progadilina* (Richardson, 1906)
subparvulum, *Laevidentalium* (Emerson, 1954)
subquadratum, *Dentalium* Meeke, 1860
subtrigonalis, *Progadilina* (Richardson, 1906)
tenuue, *Dentalium* Goldfuss, 1841
tenuistriata, *Cyrtocoella* Patruilius, 1996
terquemi, *Dentalium* Richardson, 1906
triedra, *Serpula* Quenstedt, 1856
trigonalis, *Progadilina* “?” (Moore, 1866)
weitschati, *Baltodentalium* Engeser & Riedel, 1992

Cretaceous

alatum, *Dentalium* Gardner, 1878
alineatum, *Dentalium* Stephenson, 1952
angulare, *Dentalium* Kaunhowen, 1897
aquensis, *Cadulus* (Holzapfel, 1888)
arcotinum, *Dentalium* Forbes, 1846
barremicum, *Dentalium* Cossmann, 1916
binkhorsti, *Dentalium* Pilsbry & Sharp, 1898
californicum, *Dentalium* Stanton, 1895
cazadorianum, *Dentalium* Wilckens, 1907
chilense, *Dentalium* d’Orbigny in Grange, 1847

- cidaris*, *Dentalium* Geinitz, 1850
coelatum, *Dentalium* Baily in Salter, 1857
confusum, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898
coonensis, *Cadulus* Stephenson, 1941
cooperi, *Dentalium* Gabb, 1864
crassulum, *Dentalium* Stoliczka, 1868
cretaceum, *Dentalium* Conrad, 1852
cretaustralium, *Laevidentalium* Stilwell, 1999
curva, *Entalina* (Gardner, 1878)
decemcostatum, *Dentalium* Quaas, 1902
decussatum, *Dentalium* J. Sowerby, 1814
dilatatum, *Dentalium* Philippi, 1887
divisiense, *Dentalium* Gardner, 1878
duodecimplicatum, *Dentalium* Repelin, 1907
elongatum, *Laevidentalium* (Goldfuss, 1841)
ezoense, *Dentalium cooperi* var. Nagao, 1938
fragilis, *Dentalium* Meek & Hayden, 1856
frontierensis, *Cadulus* Sidwell, 1932
gardneri, *Entalina* Sharp & Pilsbry in Pilsbry & Sharp, 1898
gardneri, *Fustiaria* (Holzapfel, 1888)
gaultinus, *Cadulus* Gardner, 1878
geinitzi, *Dentalium* (Böhm, 1885)
geinitzianum, *Dentalium* Ryckholt, 1851
glabratum, *Antale* Stoliczka, 1868
gracilis, *Dentalium* Hall & Meek, 1855
grandis, *Eodentalium* Medina & del Valle, 1985
groenlandicum, *Dentalium* Ravn, 1918
groenlandicus, *Cadulus* Ravn, 1918
gucuoensis, *Dentalium* Yao, 1990
hexapleuron, *Dentalium* Kaunhowen, 1897
infortunatum, *Dentalium* Pilsbry & Sharp, 1898
jeffreysi, *Dentalium* Gardner, 1878
kubraense, *Dentalium* Palmer, 1974
lamberti, *Dentalium* Cossmann, 1897
laticostatum, *Dentalium* Reuss, 1844
leve, *Dentalium* Stephenson, 1923
limatum, *Dentalium* (*Laevidentalium*) Stanton, 1901
lineatum, *Dentalium* Gueranger, 1853
major, *Dentalium* Gardner, 1877
medium, *Dentalium* J. Sowerby, 1814
meyeri, *Entalis* Gardner, 1878
michauxianum, *Dentalium* Ryckholt, 1851
minorinum, *Dentalium* Steiner & Kabat, 2004 n. nom.
morganianum, *Dentalium* (*Laevidentalium*) Wilckens, 1922
muellerianum, *Dentalium* Pilsbry & Sharp, 1898
multicanaliculatum, *Dentalium* Gümbel, 1861
multicostatum, *Dentalium* Favre, 1869
navarroi, *Dentalium* Stephenson, 1941
niceforoi, *Dentalium* Royo y Gomez, 1945
nodulosus, *Dentalites* Schlotheim, 1820
nutans, *Cadulus* Böhm, 1891
obrutus, *Cadulus* (Conrad, 1870)
octevillense, *Dentalium* Cossmann, 1899
otatumei, *Dentalium* Nagao, 1938
ovosectum, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898
parvula, *Fustiaria* Stoliczka, 1868
patulum, *Dentalium* Potiez & Michaud, 1838
paulini, *Dentalium* Maurry, 1925
pauperculum, *Dentalium* Meek & Hayden, 1860
planicostatum, *Dentalium* Hébert, 1855
polygonum, *Dentalium* Reuss, 1844
praetenuis, *Cadulus* Stephenson, 1952
rhodani, *Dentalium* Pictet & Roux, 1849
rothomagense, *Dentalium* d'Orbigny, 1850
ripleyanum, *Dentalium* Gabb, 1860
rugosum, *Dentalium* Dunker, 1849
sacheri, *Dentalium* Alth, 1850
schlosseri, *Dentalium* Traub, 1938
sougraignense, *Dentalium* Cossmann, 1904
stramineum, *Dentalium* Gabb, 1864
subarcuatum, *Dentalium* Conrad, 1853
subcylindricum, *Dentalium* Philippi, 1887
sublineatum, *Dentalium* Stephenson, 1952
subplanum, *Dentalium* Pilsbry & Sharp, 1898
tenuicostatum, *Dentalium* Böhm, 1891
turonense, *Dentalium* Woods, 1896
uchauxiense, *Dentalium* Cossmann, 1897
valangiense, *Dentalium* Pictet & Campiche, 1864
vaningeni, *Dentalium* Steiner & Kabat, 2004 n. nom.
vaughani, *Dentalium* Stephenson, 1941
wadei, *Dentalium* Pilsbry, 1927
wanneri, *Dentalium* Steiner & Kabat, 2004 n. nom.
whiteavesi, *Dentalium* (*Entalis*) Anderson & Hanna, 1935
wilckensi, *Laevidentalium* Medina & del Valle, 1985
wollumbillaensis, *Dentalium* Etheridge in Jack & Etheridge, 1892
- “Mesozoic” (period not specified)*
 ?*elephantinus*, *Dentalites* Schlotheim, 1820
subquadrangulare, *Dentalium* Emerson, 1954
- CENOZOIC
Paleogene [*Paleocene* to *Oligocene*, epoch not specified]
pagellai, *Dentalium* Negri, 1934
- Paleocene*
ashiyaensis, *Dentalium* Nagao, 1928
ewekoroense, *Dentalium* (*Antalis*) Adegoke, 1977
golovtschenki, *Dentalium* Makarenko, 1970
guineense, *Dentalium* (*Laevidentalium*) Adegoke, 1977
infraeocaenicanum, *Compressidens* (Cossmann, 1907)
intumescens, *Cadulus* (Koenen, 1885)
laguncula, *Gadila* Darragh, 1997
laticornuata, *Compressidens* Darragh, 1997
lusanensis, *Dentalium* Makarenko, 1970
mauryae, *Dentalium* Penna-Neme & da Costa Barros Muniz, 1976

- montense*, *Fustiaria* (Briart & Cornet, 1889) [as *D. inversum* Cossmann, 1915 non Deshayes]
multistricta, *Antalis* (Finlay & Marwick, 1937)
nigeriense, *Dentalium* (*Laevidentalium*) Adegoke, 1977
rarinodosum, *Dentalium haeringense* var. Báldi, Hovarth & Makk, 1974
rugiferum, *Dentalium* Koenen, 1885
seriaeforme, *Siphonodentalium* Ravn, 1939
subgracile, *Dentalium* Emerson, 1954
sundkroogensis, *Dentalium* (*Dentalium*) Schnetler, 2001
undiferum, *Dentalium* Koenen, 1885
- Eocene**
absconditum, *Dentalium* Deshayes, 1861
acicula, *Fustiaria* (*Episiphon*) Hodgkinson, 1974
acre, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898
acuticostata, *Dentalium* Deshayes, 1825
aequale, *Dentalium* Deshayes, 1861
aldrichi, *Cadulus* Gardner, 1933
anceps, *Dentalium* J. Sowerby in Wetherell, 1837
andrewsi, *Dentalium* Cuvillier, 1933
angustum, *Dentalium* Deshayes, 1861
annulopunctatum, *Dentalium* (*Fustiaria*) Cossmann & Pissarro, 1902
apicostatum, *Dentalium* (*Antalis*) Vokes, 1939
arabicum, *Dentalium* Cuvillier, 1933
archiaci, *Dentalium* Tournouër in de Boullé, 1873
arciformis, *Dentalium* Conrad, 1846
armoricense, *Siphonodentalium* Cossmann, 1902
arnoensis, *Polyschides* Maxwell, 1992
atavus, *Cadulus* (*Gadila*) Finlay & Marwick, 1937
bellulus, *Cadulus* Clark, 1895
bilabiatus, *Dischides* (Deshayes, 1861)
bironense, *Dentalium* Douvillé, 1929
bisissura, *Cadulus* “(?)” Garvie, 1996
bitubatum, *Dentalium* Meyer, 1886
blandum, *Dentalium* de Gregorio, 1890
boggsi, *Dentalium* Berry, 1926
bouryi, *Siphonodentalium* (*Dischides*) Cossmann, 1888
brazosensis, *Cadulus* (*Gadila*) Hodgkinson, 1974
breve, *Dentalium* Deshayes, 1861
brevis, *Dischides* (Deshayes, 1861)
brongniarti, *Dentalium* Deshayes, 1861
calafium, *Dentalium* (*Laevidentalium*) Vokes, 1939
castellanensis, *Dentalium* d’Orbigny, 1850
centennale, *Dentalium* Marwick, 1942
circinatum, *Fustiaria* (G. B. Sowerby, 1823)
claibornense, *Dentalium* (*Antalis*) *thalloides* var. Palmer, 1937
coislinese, *Dentalium* (*Entalis*) Cossmann, 1902
constricta, *Antalis* (Newton & Harris, 1894)
corpulentus, *Cadulus* Meyer, 1886
curvus, *Cadulus* (*Gadila*) Hodgkinson, 1974
danai, *Fustiaria* (*Laevidentalium*) (Meyer, 1885)
danvillense, *Dentalium* (*Antalis*) Palmer, 1947
defrancii, *Dentalium* Deshayes, 1861
depressus, *Cadulus* Meyer, 1884
dilatatum, *Pulsellum* Cossmann, 1888
dolichus, *Cadulus* (*Gadilopsis*) Woodring, 1973
dumasi, *Fustiaria* “(?)” Cossmann, 1919
duplex, *Lobantale* (Defrance, 1819)
emersoni, *Coccodentalium* Squires, 1988
emersoni, *Entalina* Maxwell, 1992
erleneae, *Cadulus* (*Gadila*) Hodgkinson, 1974
eugenii, *Dentalium* Dall, 1892
gabbi, *Cadulus* Pilsbry & Sharp, 1898
ganense, *Laevidentalium* Cossmann in O’Gorman & Cossmann, 1923
gnizum, *Dentalium* de Gregorio, 1890
gracilicostatum, *Dentalium* (*Fissidentalium*) Singleton, 1943
gracilis, *Episiphon* Garvie, 1996
grande, *Dentalium* Deshayes, 1825
grossheimi, *Dentalium* Merklin, 1961
hannonicum, *Dentalium* Briart & Cornet, 1889
ignotum, *Dentalium* Korobkov, 1955
incisissimum, *Dentalium* Meyer & Aldrich, 1886
inopinatum, *Dentalium* Mayer-Eymar, 1887
jacksonense, *Dentalium* (*Antalis*) *mississippiense* var. Palmer, 1947
jacksonensis, *Cadulus* Meyer, 1885
juvenis, *Cadulus* Meyer, 1886
kahirabense, *Dentalium* Cossmann, 1901
kapuaensis, *Polyschides* Maxwell, 1992
korobkovi, *Cadulus* (*Gadila*) Merklin, 1961
landinense, *Dentalium* Vincent, 1876
leoniae, *Dentalium* Meunier, 1878
leroyi, *Fustiaria* (*Fustiaria*) Hodgkinson, 1974
lighti, *Dentalium* (*Laevidentalium* “?”) Vokes, 1939
lucidum, *Pseudantalis* (Deshayes, 1861)
magnum, *Dentalium* Briart & Cornet, 1889
magnus, *Gadus* Mayer-Eymar, 1887
mancorens, *Dentalium* Olsson, 1930
mantelli, *Dentalium* Zittel, 1864
maoria, *Fustiaria* Maxwell, 1992
margarita, *Cadulus* (*Polyschides*) Palmer, 1947
marthae, *Dentalium* Cossmann & Pissarro, 1902
masoni, *Gadilina* Maxwell, 1992
mcfarlandae, *Cadulus* (*Cadulus*) Emerson, 1957
mediaviense, *Dentalium* Harris, 1896
meganosensis, *Cadulus* Palmer, 1923
meyeri, *Polyschides* (Cossmann, 1888)
michelinii, *Dentalium* Rouault, 1850
microstria, *Dentalium* Heilprin, 1881
minutiannulatum, *Dentalium* (*Antalis*) Hodgkinson, 1974
minutistriatum, *Dentalium* Gabb, 1860
molengraaffi, *Dentalium* (s.s.) Martin, 1915
montense, *Dentalium* Briart & Cornet, 1889
moseleyensis, *Cadulus* (*Gadila*) Hodgkinson, 1974
multiannulatum, *Dentalium* Aldrich, 1895
nanggulanense, *Dentalium* (s.s.) Martin, 1915
neglectum, *Dischides* (Cossmann, 1888)
newtonensis, *Cadulus* Meyer & Aldrich, 1886
nitens, *Fustiaria* (J. Sowerby, 1814)
nitidum, *Laevidentalium* (Deshayes, 1861)

- orthezense*, *Dentalium* Tournouër, 1873
ouachitensis, *Cadulus* (*Cadulus*) Palmer, 1937
palmerae, *Cadulus* (*Gadila*) Hodgkinson, 1974
palmerae, *Dentalium* (*Antalis*) Garvie, 1996
parannulatum, *Dentalium* Steiner & Kabat, 2004 n. nom.
parisiensis, *Dentalium* d'Orbigny, 1850
pellucens, *Fustiaria* (Deshayes, 1861)
perinii, *Dentalium* Malaroda, 1951
phoenicea, *Cadulus* Gardner, 1933
potiezi, *Dentalium* (s.s.) Le Renard, 1994
pseudocircinata, *Fustiaria* Gougerot, 1968
pseudohungaricus, *Cadulus* (*Gadila*) Szöts, 1953
pseudorakhiense, *Dentalium* (*Laevidentalium*) Eames, 1952
pukaea, *Fissidentalium* Maxwell, 1992
quadriturritus, *Cadulus* Meyer, 1886
rakhiense, *Dentalium* (*Laevidentalium*) Eames, 1952
rei, *Fissidentalium* “?” Maxwell, 1992
reticulatum, *Dentalium* Tournouër in de Boullé, 1873
samanicum, *Dentalium* Berry, 1926
?sandbergeri, *Dentalium* Bosquet, 1859
seminudum, *Dentalium* Deshayes, 1861
soriense, *Dentalium* Eames, 1952
speciosum, *Dentalium* Gümbel, 1861
stentor, *Dentalium* Anderson & Hanna, 1925
stonecityensis, *Cadulus* (*Gadila*) Hodgkinson, 1974
striatulinum, *Antale* “?” Cossmann in O’Gorman & Cossmann, 1923
subcoarctatus, *Cadulus* (*Polyschides*) (Gabb, 1860)
subcompressa, *Fustiaria* (*Laevidentalium*) (Meyer, 1885)
subburneum, *Fustiaria* (d’Orbigny, 1850)
subfissura, *Dentalium* (*Laevidentalium*) (Tate, 1887)
substriatum, *Dentalium* Deshayes, 1825
sylvaerupis, *Serpulorbis* Harris, 1899
tatei, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898
tenuicincta, *Plagioglypta* (Gougerot, 1968)
tenuis, *Dentalium* Hutton, 1873
tenuistriatum, *Dentalium* Rouault, 1850
thalloides, *Dentalium* Conrad, 1833
turgidus, *Cadulus* Meyer, 1886
turritum, *Dentalium* Lea, 1833
vacavillensis, *Dentalium* Palmer, 1923
vincense, *Dentalium* (*Antalis*) Palmer, 1947
vredenburgi, *Dentalium* Cossmann & Pissarro, 1909
xiphias, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1898
yasilum, *Dentalium* Olsson, 1930
zingulai, *Cadulus* (*Gadila*) Hodgkinson, 1974
- Oligocene*
abruptus, *Cadulus* Meyer & Aldrich, 1886
acuta, *Antalis* (Hébert, 1849)
aequicostatum, *Dentalium* Koenen, 1892
alazanum, *Dentalium* (*Dentalium*) Cooke, 1928
asphaltodes, *Dentalium* (*Dentalium*) Beets, 1943
boussaci, *Dentalium* Emerson, 1954
calliogyptum, *Dentalium* Pilsbry & Sharp, 1898
cartagenense, *Dentalium* Pilsbry & Brown, 1917
caseyi, *Dentalium* Steiner & Kabat, 2004 n. nom.
caselensis, *Gadila* R. Janssen, 1989
chipolanum, *Dentalium* (*Antalis*) Gardner, 1947
clarae, *Cadulus* Maury, 1910
colobus, *Cadulus* Pilsbry & Sharp, 1898
cossmannianum, *Dentalium* Pilsbry & Sharp, 1898
cucumis, *Cadulus* Koenen, 1892
cylindricus, *Cadulus* R. Janssen, 1989
dejtareense, *Dentalium densitextum* var. Báldi, 1973
dekagonum, *Dentalium* Koenen, 1892
densitexta, *Dentalium haeringense* var. Noszky, 1940
depressicollis, *Cadulus* Pilsbry & Sharp, 1898
diopon, *Dentalium* (*Antalis*) Gardner, 1947
duodecimcostatum, *Dentalium* d’Archiac, 1850
durhami, *Cadulus* (*Platyschides*) Emerson, 1957
elegantissimus, *Cadulus* Pilsbry & Sharp, 1898
exiguum, *Dentalium* Koenen, 1892
fritschi, *Dentalium* Koenen, 1892
gabbi, *Dentalium* Pilsbry & Sharp, 1898
geinitzi, *Dentalium* (*Fustiaria*) Koenen, 1892
geminatum, *Antalis* (Goldfuss, 1841)
heptagonum, *Dentalium* Boettger, 1882
infraoligocaenicum, *Compressidens* Welle, 1997
insuranum, *Dentalium* Emerson, 1954
kickxii, *Antalis* (Nyst, 1843)
ladinum, *Dentalium* Dall, 1916
laneensis, *Dentalium* (“?” *Fissidentalium*) Hickman, 1969
mayeri, *Dentalium* Gümbel, 1861
menthifonta, *Fustiaria* (*Episiphon*) Dockery in MacNeil & Dockery, 1984
microreticulata, *Antalis* “?” Welle, 1997
minor, *Cadulus gracilina* var. Báldi, Hovarth & Makk, 1974
mississippiensis, *Dentalium* Conrad, 1848
nicense, *Dentalium* Bellardi, 1852
novaki, *Dentalium* Koenen, 1892
novemcinctum, *Dentalium* “?” Sacco, 1897
numomae, *Dentalium* Takeda, 1953
obliquatus, *Cadulus* Koenen, 1892
oligocena, *Gadila* Vergneau-Saubade, 1968
opaculum, *Dentalium* Casey, 1903
ottoi, *Dentalium* Sharp & Pilsbry in Pilsbry & Sharp, 1897
ovale, *Dentalium* Cooke, 1928
parallelus, *Rhabdus* (Zinndorf, 1928)
parianus, *Cadulus* Guppy in Guppy & Dall, 1896
perfragile, *Dentalium* (*Pulsellum*) Koenen, 1892
phenax, *Cadulus* Pilsbry & Sharp, 1898
pictile, *Dentalium* (*Laevidentalium*) Tate, 1899
polypleurum, *Dentalium* Seifert, 1959
praecursor, *Dentalium* (*Compressidens*) Pilsbry & Sharp, 1898
proterum, *Dentalium* (*Dentalium*) *armillatum* Woodring, 1973
pseudacutum, *Fissidentalium novaki* R. Janssen, 1989

- pseudellipticum*, *Laevidentalium* Steiner & Kabat, 2004 n. nom.
- pseudofissura*, *Dentalium* (*Antalis*) R. Janssen, 1978
- pyrum*, *Dentalium* Pilsbry & Sharp, 1898
- radiolineata*, *Dentalium* Clark, 1918
- rhenanus*, *Dentalium* R. Janssen, 1978
- rupeliensis*, *Gadila* R. Janssen, 1989
- sagittarii*, *Dentalium* Pilsbry & Johnson, 1917
- santarosanum*, *Dentalium* Maury, 1910
- sobrantensis*, *Dentalium radiolineata* var. Clark, 1918
- solidissimum*, *Dentalium* Pilsbry & Brown, 1917
- spiniformis*, *Cadulus* (*Gadila*) Gardner, 1947
- strenuum*, *Dentalium* Casey, 1903
- sulcatulum*, *Dentalium* Koenen, 1892
- tenuicinctum*, *Dentalium* Koenen, 1892
- tenuisulcatum*, *Dentalium* (*Fustiaria*) Hölzl, 1962
- trautscholdi*, *Dentalium* Koenen, 1868
- tryoni*, *Dentalium* Pilsbry & Sharp, 1898
- varicostata*, *Dentalium* Dockery in MacNeil & Dockery, 1984
- vicksburgensis*, *Cadulus* Meyer, 1885
- vinassai*, *Dentalium* Cossmann, 1912
- volvulus*, *Cadulus* (*Gadila*?) Gardner, 1947
- waisiense*, *Dentalium* (*Dentalium*) Beets, 1943
- watanabei*, *Dentalium* (*Fissidentalium*) Kanno, 1958
- waynensis*, *Cadulus* Mansfield, 1940
- weinheimensis*, *Antalis* R. Janssen, 1989
- yotsukurensis*, *Dentalium* Hirayama, 1955
- zephyrinum*, *Dentalium* Casey, 1903
- Neogene* [Miocene to Pleistocene, unspecified]
- bifrons*, *Dentalium* "(?)” Tate, 1887
- tigillum*, *Dentalium* Yokoyama, 1931
- Miocene*
- acriculum*, *Dentalium* (*Laevidentalium*) (Tate, 1887)
- addicotti*, *Cadulus* (*Platyschides* “?”) Emerson, 1957
- angsanamum*, *Dentalium* (s.s.) Martin, 1921
- angusticostatum*, *Dentalium* (*Antalis*) Baluk, 1972
- annectens*, *Cadulus* (*Platyschides*) Woodring, 1925
- annulatum*, *Polyschides* (Pilsbry, 1911)
- anomalocostata*, *Dentalium* (*Entalis*) *taurostriata* “?” var. Sacco, 1897
- anomalum*, *Dentalium* (*Entalina*) Cossmann & Peyrot, 1917
- aratum*, *Dentalium* Tate, 1887
- armillatum*, *Dentalium* Toulou, 1911
- arrosus*, *Cadulus* (*Platyschides*) Woodring, 1925
- atava*, *Dentalium* (*Antale* “?”) *taurocostatum* var. Sacco, 1897
- attenuatum*, *Dentalium* Say, 1824
- atwensis*, *Pseudantalis* Cossmann & Peyrot, 1917
- australe*, *Laevidentalium* (Sharp & Pilsbry in Pilsbry & Sharp, 1898)
- badense*, *Fissidentalium* (Hörnes, 1856)
- bakoniense*, *Dentalium* Palmer, 1974
- basteroti*, *Entalis* Cossmann & Peyrot, 1917
- benoisti*, *Gadila* Cossmann & Peyrot, 1917
- blountense*, *Cadulus* Mansfield, 1935
- bocasensis*, *Dentalium* (*Dentalium*) Olsson, 1922
- boettgeri*, *Dentalium* Noetling, 1901
- borealis*, *Dentalium* (*Entalis*) *badense* var. Kautsky, 1925
- borelliana*, *Gadilina* Pavia, 1991
- bothrum*, *Dentalium* (*Dentalium*) Woodring, 1973
- bruneti*, *Dentalium* Steiner & Kabat, 2004 n. nom.
- burdigalinum*, *Dentalium* Mayer, 1864
- burnsii*, *Cadulus floridanus* var. Dall, 1892
- caduloide*, *Dentalium* Dall, 1892
- carolinense*, *Dentalium* Conrad, 1862
- caronensis*, *Cadulus* Mansfield, 1925
- catulloi*, *Dentalium* Vinassa de Regny, 1896
- conradi*, *Cadulus* (*Gadila*) Pilsbry & Harbison, 1933
- costatior*, *Dentalium* (*Entalis*) *miopseudoentalis* “?” var. Sacco, 1897
- costulatio*, *Dentalium* (*Antale* “?”) *taurocostatum* var. Sacco, 1897
- costulatio*, *Dentalium* *micheelotti* var. Sacco, 1897
- davasense*, *Dentalium* (*Entalis*) Oppenheim, 1919
- decemcostata*, *Dentalium* (*Entalis*) *taurostriata* var. Sacco, 1897
- degrangei*, *Dentalium* (*Antale*) Cossmann & Peyrot, 1917
- degrangei*, *Gadila* (*Loxoporus*) Cossmann & Peyrot, 1917
- densmuris*, *Dentalium* Mayer, 1858
- dentalina*, *Gadilopsis* (Guppy, 1873)
- denticulustigris*, *Cadulus* Maury, 1917
- depressum*, *Laevidentalium* Pavia, 1991
- dertornensis*, *Dentalium* (*Entalis*) *recta* var. Sacco, 1897
- dijki*, *Dentalium* Martin, 1885
- dingdenensis*, *Cadulus* (*Gadila*) Goddeeris, 1977
- dissimilis*, *Tesseracme* (Guppy, 1866)
- divulgatum*, *Dentalium* (*Dentalium*) Jung, 1969
- dodecacostatum*, *Antalis* Brunet, 1995
- dollfusi*, *Dentalium* Koenen, 1883
- dujardini*, *Dentalium* (*Antale*) Peyrot, 1938
- dumasi*, *Dentalium* Cossmann & Peyrot, 1917
- elassum*, *Dentalium* (*Episiphon*) *innumerabile* Woodring, 1973
- elaticosta*, *Dentalium* (*Entalis*) *recta* var. Sacco, 1897
- epetron*, *Cadulus* (*Platyschides*) Woodring, 1973
- exdispar*, *Dentalium* (*Pseudantalis*) *rubescens* var. Sacco, 1897
- exlamarcki*, *Dentalium* (*Entalis*) Sacco, 1897
- feruglioi*, *Laevidentalium* Brunet, 1995
- fibula*, *Gadila* Boettger, 1907
- flebensis*, *Antalis* Brunet, 1995
- floratum*, *Fissidentalium* (Zimmermann, 1847)
- floridanus*, *Cadulus* Dall, 1892
- fodinense*, *Laevidentalium* (s.l.) Maxwell, 1988
- glaucoterrarum*, *Dentalium* Maury, 1917
- gracilina*, *Cadulus* (*Gadila*) Sacco, 1897
- gracillima*, *Dentalium* (*Coccodentalium*) *radula* var. Sacco, 1897
- granadanum*, *Dentalium* Anderson, 1929
- granosa*, *Entalis* Martin, 1885

- helveticum*, *Dentalium sexangulum* “mut.” Cossmann & Peyrot, 1917
- helveticum*, *Siphonodentalium* (*Dischides* “?”) Cossmann & Peyrot, 1917
- hemigymnum*, *Dentalium* (*Antale*) *degrangei* var. Cossmann & Peyrot, 1917
- houthalenensis*, *Cadulus* (*Gadila*) *benoisti* var. Goddeeris, 1977
- hurupiensis*, *Cadulus* Dell, 1952
- iheringi*, *Dentalium* Brunet, 1995
- ihungia*, *Dentalium* Marwick, 1931
- inaequicostata*, *Dentalium* Seguenza, 1879
- infans*, *Cadulus* (*Gadila*) Tate, 1899
- infundibulum*, *Pulsellum* Cossmann & Peyrot, 1917
- interbinarium*, *Dentalium sexangulum* “mut.” Cossmann & Peyrot, 1917
- interrupta*, *Antalis* (Gmelin, 1791)
- interrinarium*, *Dentalium sexangulum* var. Cossmann & Peyrot, 1917
- irregularis*, *Dentalium* Hutton, 1873
- ixhuatlanensis*, *Dentalium* Alencaster-Ibarra, 1950
- jani*, *Dentalium* Hörnes, 1856
- jonkeri*, *Dentalium* Martin, 1885
- junghubni*, *Dentalium* Martin, 1880
- karreri*, *Dentalium* R. Hörnes, 1875
- korytnicense*, *Dentalium* (*Antalis*) Baluk, 1972
- leonense*, *Dentalium* (*Dentalium* “?”) *disparile* Mansfield, 1930
- ligeriense*, *Dentalium* Peyrot, 1938
- macilentum*, *Dentalium* Pilsbry, 1911
- magnumcostatum*, *Dentalium* Brunet, 1995
- mawsoni*, *Dentalium* (*Fissidentalium*) Ludbrook, 1956
- minoensis*, *Siphonodentalium* (*Pulsellum*) Itoigawa, 1960
- miocaenicum*, *Pulsellum* Boettger, 1902
- miocenicum*, *Dentalium* Michelotti, 1847
- miopseudoentalis*, *Dentalium* (*Entalis*) Sacco, 1897
- misatoensis*, *Dentalium* Araki, 1958
- mucronatus*, *Cadulus* Tate, 1887
- mutabile*, *Fissidentalium* (Hörnes, 1856)
- noetlingi*, *Dentalium* Martin, 1915
- octogonalis*, *Dentalium* (*Antale* “?”) *taurocostatum* var. Sacco, 1897
- ornatus*, *Cadulus* (*Dischides*) Baluk, 1972
- ortus*, *Fissidentalium* Palmer, 1974
- otamaringaensis*, *Dentalium* Marwick, 1926
- pardelensis*, *Dentalium* Brunet, 1995
- pareorensis*, *Antalis* (Pilsbry & Sharp, 1898)
- parvulina*, *Cadulus tumidosus* var. Sacco, 1897
- parvum*, *Dentalium* Mayer, 1864
- passerinianum*, *Dentalium* Cocconi, 1874
- patagonicum*, *Dischides* Brunet, 1995
- paucicostata*, *Dentalium* (*Entalis*) *badensis* var. Sacco, 1897
- paucistriata*, *Pulsellum* (*Entalina*) *tetragona* var. Sacco, 1897
- perigonium*, *Dentalium* Doderlein, 1864
- perlaevis*, *Dentalium* (*Antale*) *bouei* var. Sacco, 1897
- perplexa*, *Gadila* Boettger, 1907
- perilliatae*, *Tesseracme* Steiner & Kabat, 2004 n. nom.
- perseveratum*, *Dentalium* Brunet, 1995
- petricola*, *Rhabdus* (Dall, 1909)
- peyreirensis*, *Dentalium* (*Antale*) Cossmann & Peyrot, 1917
- ?*philippi*, *Dentalium* Chenu, 1843
- pilsbryi*, *Cadulus* (*Platyschides*) Woodring, 1925
- planatum*, *Dentalium* Bronn, 1831
- planicostata*, *Dentalium* (*Entalis*) *badensis* var. Sacco, 1897
- porterensis*, *Dentalium* Weaver, 1912
- prismaticum*, *Dentalium* Seguenza, 1879
- ?*proliferum*, *Dentalium* Chenu, 1843
- prosperus*, *Striocadulus* (Marwick, 1931)
- prudens*, *Dentalium* Brunet, 1995
- pseudobouei*, *Dentalium* (*Entalis*) *badensis* var. Sacco, 1897
- pseudomutabile*, *Lentigodentalium* R. Janssen, 1989
- pseudonyma*, *Dentalium* Pilsbry & Sharp, 1898
- quadratum*, *Dentalium* Martin, 1885
- radula*, *Coccodentalium* (Gmelin, 1791)
- radularis*, *Dentalites* Schlotheim, 1820
- raricostata*, *Dentalium* (*Antale*) *fossile* var. Sacco, 1897
- raricostata*, *Dentalium* (*Coccodentalium*) *radula* var. Sacco, 1897
- rimosum*, *Dentalium* Böse, 1906
- rotundatior*, *Dentalium* *inaequale* var. Sacco, 1897
- rutteri*, *Dentalium* Martin, 1917
- saccoi*, *Cadulus taurovulum* Pavia, 1991
- saucatsense*, *Dentalium* Benoist, 1873
- schencki*, *Dentalium* (*Rhabdus*) Moore, 1963
- schumoi*, *Dentalium* Pilsbry, 1911
- sectiforme*, *Dentalium* (*Graptacme*) Tate, 1899
- seguenzianus*, *Cadulus* (*Gadila*) Moroni & Ruggieri, 1980
- semarangense*, *Dentalium* Altena, 1938
- seminuda*, *Dentalium* (*Antale*) *raricostatum* “race” Cossmann & Peyrot, 1917
- septemcostata*, *Dentalium* (*Antale* “?”) *taurocostatum* var. Sacco, 1897
- simplex*, *Laevidentalium* (Michelotti, 1861)
- simplicior*, *Dentalium* (*Entalis*) *taurostriata* var. Sacco, 1897
- simrothi*, *Cadulus* Pilsbry, 1911
- sokkohense*, *Dentalium* Martin, 1917
- solidum*, *Fissidentalium* (Hutton, 1873)
- spiniforme*, *Dentalium* Martin, 1885
- striatellulata*, *Dentalium* (*Fustiaria*) *jani* var. Sacco, 1897
- stromeri*, *Dentalium* (*Fustiaria*) Oppenheim, 1906
- subgiganteum*, *Dentalium* d’Orbigny, 1852
- subjuvenis*, *Dentalium* (*Entalis*) *taurostriata* var. Sacco, 1897
- sublaevis*, *Dentalium dentalis* var. Cocconi, 1874
- subpolitum*, *Siphonodentalium* (*Dischides*) Cossmann & Peyrot, 1917
- subprismaticum*, *Dentalium* (*Dentalium*) Baluk, 1972
- subserratum*, *Dentalium* Palmer, 1974
- subsexangulare*, *Dentalium* d’Orbigny, 1852

- superbus*, *Dentalium* Brunet, 1995
syltense, *Fissidentalium floratum* R. Janssen, 1989
taurasperum, *Fissidentalium* (Sacco, 1897)
taurocostata, *Antalis* (Sacco, 1897)
taurogracilis, *Dentalium* (*Antale bouei* var. Sacco, 1897)
taurogracilis, *Fustiaria* (Sacco, 1897)
taurominima, *Cadulus* (*Loxoporus*) Sacco, 1897
taurostriata, *Dentalium* (*Entalis*) Sacco, 1897
taurotumidosus, *Cadulus* (*Cadulus*) Sacco, 1897
taurovulus, *Cadulus* (*Cadulus*) Sacco, 1897
tenuis, *Gadila* Ozaki, 1956
tenuis, *Cadulus* (Seguenza, 1879)
thallus, *Cadulus* (Conrad, 1834)
transiens, *Dentalium michelotti* var. Boettger, 1907
transilvanicum, *Siphonodentalium* Boettger, 1897
trigonaloides, *Gadilina* Palmer, 1974
tutongense, *Dentalium* (*Dentalium javanum* Beets, 1984)
twistingense, *Fissidentalium* R. Janssen, 1989
uscarianum, *Dentalium* (*Fissidentalium*) Olsson, 1922
ventricosa, *Gadila* (Bronn, 1828)
vitreum, *Dentalium* Gmelin, 1791
waihoraense, *Laevidentalium* (Emerson, 1954)
weinbrechti, *Polyschides* R. Janssen, 1989
zecaninus, *Gadila* (Laws, 1939)
- Pliocene**
acuminatus, *Gadila* (Tate, 1887)
acutangularis, *Dentalium sexangulare* var. Cocconi, 1874
adelaidense, *Siphonodentalium* (*Pulsellum*) Ludbrook, 1956
arcticus, *Siphonodentalium* (Dall, 1920)
astensis, *Dentalium* (*Antale* “?”) *dentale* var. Sacco, 1897
astensis, *Dentalium* (*Fustiaria*) *polita* var. Sacco, 1897
bruscasensis, *Cadulus* (*Gadila*) Weisbord, 1964
calabrum, *Dentalium* O. G. Costa, 1851
caloosaense, *Dentalium* Dall, 1892
costae, *Dentalium* Pilsbry & Sharp, 1898
?costaricense, *Dentalium* Pilsbry, 1911
costatum, *Dentalium* J. Sowerby, 1814
costulatissima, *Dentalium michelotti* var. Sacco, 1897
crebrestriata, *Dentalium sexangulum* var. Coppi, 1881
crux, *Dentalium* (*Antale*) Boettger, 1907
cyathus, *Cadulus* (Cristofori & Jan, 1832)
decemcostulata, *Dentalium* (*Antale novemcostatum* var. Sacco, 1897)
delli, *Striocadulus* (Marwick, 1965)
delphinense, *Dentalium* Fontannes, 1880
denotatum, *Dentalium* (*Antalis*) Ludbrook, 1956
diploconus, *Cadulus* Seguenza, 1876
dufresnii, *Dentalium* Deshayes, 1825
duodecimcostata, *Dentalium* (*Antale novemcostatum* var. Sacco, 1897)
?enneagonum, *Dentalium* Martin, 1885
entaloides, *Dentalium* Fleming, 1825
equisetum, *Dentalium* (*Dentalium*) Olsson, 1964
esmeraldum, *Dentalium* (*Fissidentalium*) Olsson, 1942
exaratum, *Dentalium* Yokoyama, 1927
gadula, *Cadulus* (*Gadila*) *gadus* var. Sacco, 1897
gibba, *Cadulus ovulum* var. Seguenza, 1879
gonatodes, *Dentalium* Martin, 1885
guidottii, *Dentalium* Sacco, 1897
?incisum, *Dentalium* Chenu, 1843
intercosticillata, *Dentalium michelotti* var. Sacco, 1897
laevigatum, *Dentalium* Eichwald, 1830
latesulcatum, *Dentalium* (*Fissidentalium*) Tate, 1899
laticostata, *Dentalium* (*Entalis*) *badensis* var. Sacco, 1897
leptodoma, *Cadulus* (*Gadila*) Pilsbry & Olsson, 1941
linnei, *Dentalium* Foresti, 1895
longifissum, *Dentalium* Harmer, 1923
maculatellata, *Dentalium* (*Antale* “?”) *dentale* var. Sacco, 1897
magnocostata, *Dentalium sexangulum* var. Sacco, 1897
major, *Siphonodentalium* (*Gadila*) *gadus* var. Foresti, 1895
nana, *Antalis* (Hutton, 1873)
nipponicum, *Siphonodentalium* Makiyama, 1927
noe, *Dentalium sexangulum* var. Sacco, 1897
oleacinum, *Dentalium agile* var. Dall, 1892
ozawai, *Siphonodentalium* (*Pulsellum*) Yokoyama, 1926
paucicostulata, *Dentalium* (*Antale* “?”) *dentale* var. Sacco, 1897
peracuta, *Dentalium sexangulum* var. Sacco, 1897
perstriolata, *Dentalium* (*Antale*) *vulgare* var. Sacco, 1897
playagrandensis, *Cadulus* (*Gadila*) Weisbord, 1964
pleiocenum, *Dentalium* Tuomey & Holmes, 1856
pleiocenica, *Dentalium* (*Entalis*) *badensis* var. Sacco, 1897
pliocenica, *Dentalium* (*Entalis*) *recta* var. Sacco, 1897
pliocenica, *Dentalium* (*Entalina*) *mediocarinata* Koperberg, 1931
politus, *Dischides* (S. Wood, 1842)
polyedrum, *Dentalium* Seguenza, 1879
prisma, *Dentalium* Dall, 1892
proteiforme, *Dentalium* Cossmann, 1910
pseudaprina, *Dentalium* (*Antale novemcostatum* var. Sacco, 1897)
quadrangulatum, *Dentalium* Hu & Lee, 1991
quatuordecimcostata, *Dentalium* (*Antale* “?”) *dentale* var. Sacco, 1897
quindecimstriatum, *Dentalium* Eichwald, 1853
quitus, *Cadulus* (*Polyschides*) Pilsbry & Olsson, 1941
rotundosimplex, *Dentalium michelotti* var. Sacco, 1897
rotundulina, *Dentalium michelotti* var. Sacco, 1897
salicensis, *Cadulus* Seguenza, 1879
sangiorgi, *Antalis* (Emerson, 1954)
sexangulum, *Dentalium* Gmelin, 1791
sexdecimcostata, *Dentalium* (*Antale* “?”) *dentale* var. Sacco, 1897
striatissimum, *Dentalium* Razzore, 1896

striolatissima, *Dentalium sexangulum* var. Sacco, 1897
subirregularare, *Dentalium Pilsbry & Sharp*, 1898
subrecta, *Dentalium sexangulare* var. Cocconi, 1874
suzukii, *Dentalium (Fustiaria)* Yokoyama, 1929
tetragona, *Entalina* (Brocchi, 1814)
tornatissimum, *Dentalium (Episiphon)* Tate, 1899
totomiensis, *Dentalium (Antalis)* Makiyama, 1931
tredecimcostatum, *Dentalium (Antale) novemcostatum*
 var. Sacco, 1897
triquetra, *Gadilina* (Brocchi, 1814)
undecimcostata, *Dentalium (Antale) novemcostatum* var.
 Sacco, 1897
venezuelana, *Fustiaria (Laevidentalium “?”)* Weisbord,
 1964
viallii, *Entalina* Caprotti, 1962
waccamauwense, *Dentalium (Antalis?)* Gardner, 1948
wangwaensis, *Cadulus* Nomura, 1935
yatalensis, *Cadulus (Dischides)* Ludbrook, 1956

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buricum, *Dentalium (Fissidentalium)* Olsson, 1942
caprottii, *Cadulus (Sulcogadila)* Moroni & Ruggieri,
 1981
expolita, *Entalina* Della Bella & Tabanelli, 1996
nipponicum, *Dentalium (Fustiaria)* Yokoyama, 1922
olivi, *Polyschides* (Scacchi, 1835)
ovatum, *Dentalium* Hu, 1992
tumidum, *Dentalium* W. D. Smith, 1913
vaughani, *Cadulus* Dall, 1912

“Tertiary” (epoch not specified)

antarctotubulus, *Cadulus (Gadila)* Stilwell &
 Zinsmeister, 1992
araucanum, *Dentalium* Philippi, 1887
bouei, *Dentalium* Deshayes, 1825
breviforme, *Dentalium* Mayer-Eymar, 1904
brugnonesi, *Dentalium* Steiner & Kabat, 2004 n. nom.
byorituense, *Dentalium (Fissidentalium)* Nomura, 1935
camaronesia, *Dentalium sulcosum* var. Ihering, 1907
cristatus, *Entalis* Mansuy, 1914
deshayesi, *Dentalium* Risso, 1826
diazicum, *Dentalium* Maury, 1920
fissura, *Pseudantalis* (Lamarck, 1818)
hanguense, *Dentalium* Cox, 1931

haytense, *Laevidentalium* (Gabb, 1873)
hoernesii, *Cadulus (Gadila)* Boettger, 1902
incertum, *Laevidentalium* (Deshayes, 1825)
intermedium, *Dentalium* Hupé, 1854
javense, *Dentalium* Palmer, 1974
juliana, *Dentalium sulcosum* var. Ihering, 1907
lebuense, *Dentalium* Philippi, 1887
lentum, *Dentalium* Yokoyama, 1923
lobion, *Cadulus (Polyschides)* Gardner, 1947
matanzasense, *Dentalium* Ihering, 1907
medius, *Cadulus* Pilsbry & Sharp, 1898
monterosatoi, *Dentalium rectum* var. Pilsbry & Sharp,
 1898
navidadense, *Dentalium* Pilsbry & Sharp, 1898
nobile, *Dentalium* Mayer, 1863
?novum, *Dentalium* Chenu, 1843
octocostellatum, *Dentalium* Pilsbry & Sharp, 1898
parvulum, *Dentalium* Philippi, 1887
peranulatus, *Cadulus* Guppy, 1912
poncensis, *Cadulus* Maury, 1920
ponderosum, *Dentalium* Gabb, 1873
pseudoantalis, *Dentalium* Lamarck, 1818
pulchrum, *Dentalium* Wilckens, 1911
?semialternans, *Dentalium* Chenu, 1843
semiaratum, *Dentalium* Chapman & Crespín, 1928
semiclausum, *Dentalium* Nyst, 1835
sulcosum, *Dentalium* J. de C. Sowerby, 1846
sunieri, *Dentalium (Antalis)* Koperberg, 1931
teschi, *Dentalium subrectum* Koperberg, 1931

“FOSSIL” [WITHOUT FURTHER SPECIFICATION]

annulatum, *Dentalium* Gmelin, 1791
?annulatus, *Dentalites* Krueger, 1823
bifissuratum, *Dentalium* Deshayes, 1850
brevifissum, *Dentalium* Deshayes, 1825
denticulatum, *Dentalium* Deshayes, 1850
fossile, *Dentalium* Gmelin, 1791
fusiforme, *Dentalium* Link, 1807
leptoceras, *Dentalium* Ryckholt, 1862
operculatus, *Dentalites* Krueger, 1823
rectum, *Fissidentalium* (Gmelin, 1791)
rex, *Dentalium* Pilsbry & Sharp, 1898
transversatum, *Dentalium* Link, 1807
vulpeculum, *Dentalium* Nardo, 1847
vulpinum, *Dentalium* Nardo, 1847