

Deep-sea fauna of European seas: An annotated species check-list of benthic invertebrates living deeper than 2000 m in the seas bordering Europe. Bryozoa

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ABSTRACT: An annotated check-list is given of Bryozoa species occurring deeper than 2000 m in the seas bordering Europe. The check-list is based on published data. The check-list includes 60 species. For each species synonymy, data on localities in European seas and general species distribution are provided. Station data are presented separately in the present thematic issue.

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KEY WORDS: deep-sea fauna, European seas, Bryozoa.

Глуководная фауна европейских морей: аннотированный список видов донных беспозвоночных, обитающих глубже 2000 м в морях, окружающих Европу. Bryozoa

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РЕЗЮМЕ: Приводится аннотированный список видов Bryozoa, обитающих глубже 2000 м в морях, окружающих Европу. Список основан на опубликованных данных. Список насчитывает 60 видов. Для каждого вида приведены синонимия, данные о нахождении в европейских морях и сведения о распространении. Данные о станциях приводятся в отдельном разделе настоящего тематического выпуска.

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КЛЮЧЕВЫЕ СЛОВА: глуководная фауна, европейские моря, Bryozoa.

Phylum Bryozoa
Class Stenolaemata
Order Cyclostomatida
Family Oncousoeciidae

Genus *Anguisia* Jullien, 1882

COMPOSITION: 2 species (Bock, 2006–2014).
 Type species: *Anguisia verrucosa* Jullien, 1882.
 DISTRIBUTION: Atlantic — 1; Indian Ocean — 1; Antarctic — 1 species.

***Anguisia verrucosa* Jullien, 1882**

Anguisia verrucosa Jullien, 1882: 497–498, pl. 13: 1–2.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: Atlantic Ocean west of the Bay of Biscay (Jullien, 1882); Indian Ocean (Bock, 2006–2014).

DEPTH RANGE: 2018 m.

Family Crisiidae

Genus *Crisia* Lamouroux, 1812

COMPOSITION: 106 species (Bock, 2006–2014). Type species: *Sertularia eburnea* Linnaeus, 1758.

DISTRIBUTION: Cosmopolitan. Atlantic — 30; Arctic — 7; Pacific — 22; Indian Ocean — 9; Mediterranean — 6; Antarctic — 3 species.

***Crisia crassipes?* Calvet, 1906**

Crisina crassipes — Jullien, 1882: 499, pl. 13: 4.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: Atlantic Ocean west of the Bay of Biscay (Jullien, 1882).

DEPTH RANGE: 2018 m.

REMARKS: genus *Crisina* includes only fossil species.

Family Horneridae

Genus *Hornera* Lamouroux, 1821

COMPOSITION: 80 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Hornera frondiculata* Lamouroux, 1821.

DISTRIBUTION: Atlantic boreal zone — 9; Arctic — 2; Pacific Ocean — 2; Antarctic — 3; Australia coastal waters — 4 (Bock, 2006–2014).

***Hornera rugulosa* Jullien, 1882**

Hornera rugulosa Jullien, 1882: 503, pl.13: 9–10.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: Atlantic Ocean west of the Bay of Biscay (Jullien, 1882).

DEPTH RANGE: 50–2018 m.

Class Gymnolaemata
Order Ctenostomatida
Family Arachnidiidae

Genus *Arachnoidella* d’Hondt, 1983

COMPOSITION: 12 species (Bock, 2006–2014).
 Type species: *Arachnoidea annosciae* d’Hondt et Geraci, 1976.

DISTRIBUTION: Atlantic Ocean — 5; Mediterranean — 1; Arctic seas — 1; Pacific Ocean — 4 species.

***Arachnoidella prenanti* (d’Hondt, 1975)**

Arachnoidea prenanti d’Hondt, 1975: 555, fig.1.

LOCALITIES: “Jean Charcot” (1971), St.165, 245; BIOGAS IV (1974), St. DS 64.

DISTRIBUTION: deep waters of the Central Atlantic and North Atlantic (d’Hondt, 1975; Hayward, 1978a).

DEPTH RANGE: 1870–4270 m.

***Arachnoidella thalassae* (d’Hondt, 1978)**

Nolella thalassae d’Hondt, 1978: 330–331, fig.2; *Arachnoidella thalassae*: d’Hondt, Hayward, 1981: 273.

LOCALITIES: INCAL “Jean Charcot” (1976), St. WS 01, OS 01, CP 08.

DISTRIBUTION: deep waters of the North Atlantic (d’Hondt, Hayward, 1981).

DEPTH RANGE: 2539–2644 m.

Family Nolellidae

Genus *Nolella* Gosse, 1855

COMPOSITION: 16 species (Bock, 2006–2014).
 Type species: *Nolella stipata* Gosse, 1855.

DISTRIBUTION: cosmopolitan. Atlantic — 10; Pacific — 5; Arctic — 1; Indian Ocean — 2 species.

***Nolella monniotae* d’Hondt, 1975**

Nolella monniotae d’Hondt, 1975: 325, figs. 5, 7.

LOCALITIES: “Jean Charcot” (1971), St. 250; BIOGAS III (1972), St. CV 30; BIOGAS V (1974), DS 68; BIOGAS VI (1974), KR 66, DS 79, “Challenger” (1974), St. 50604/1.

DISTRIBUTION: deep waters of the Northeast Atlantic off Ireland and off the Iberian Peninsula (d’Hondt, 1975; Hayward 1978b; Gooday, Cook, 1984).

DEPTH RANGE: 2240–4715 m.

***Nolella radicans* d’Hondt, 1981**

Nolella radicans d’Hondt, Hayward, 1981: 271, fig. 2.
 LOCALITY: “Chain” (1972), St. 326 (d’Hondt, 1983).

DISTRIBUTION: central and northeast Atlantic (d’Hondt, Hayward, 1981; d’Hondt, 1983).

DEPTH RANGE: 101–5073 m.

Family Clavoporidae**Genus *Pseudalcyonidium* d'Hondt, 1975**

COMPOSITION: 1 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Pseudalcyonidium bobinae* d'Hondt, 1975.

DISTRIBUTION: Atlantic boreal zone.

***Pseudalcyonidium bobinae* d'Hondt, 1975**

Pseudalcyonidium bobinae d'Hondt, 1975: 555, fig. 1.

LOCALITIES: “Jean Charcot” (1971), St. 92, 165, 174 (d'Hondt, 1975).

DISTRIBUTION: deep waters of the North Atlantic (d'Hondt, 1975); Norwegian Sea (Hayward, 1978a).

DEPTH RANGE: 300–3100 m.

Family Aethozoontidae**Genus *Aethozoom* Hayward, 1978**

COMPOSITION: 1 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Aethozoom pellucidum* Hayward, 1978.

DISTRIBUTION: deep waters of boreal zone, 700–3617 m.

***Aethozoom pellucidum* Hayward, 1978**

Aethozoom pellucidum Hayward, 1978b: 159, Fig. 1–4.

LOCALITIES: “Jean Charcot” (1975), St. DS 15, DS 16, CP 14, CP 15, KR 05, KR 18, KR 19; INCAL “Jean Charcot” (1976), St. OS 06.

DISTRIBUTION: Deep waters of the North Atlantic west of the Bay of Biscay (Hayward, 1978b) and eastern North Atlantic (d'Hondt, Hayward, 1981).

DEPTH RANGE: 700–5150 m.

REMARKS: Having the largest zooids (<8 mm) known among Bryozoans.

Family Flustrellidridae**Genus *Bockiella* Silén, 1942**

COMPOSITION: 4 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Bockiella angusta* Silén, 1942.

DISTRIBUTION: Pacific — 4; Atlantic boreal zone and deep waters — 1 species.

***Bockiella angusta* Silén, 1942**

Bockiella angusta Silén, 1942: 20, figs 15–17; Cook, 1964: 296.

LOCALITIES: BIOGAS IV (1974), St. DS 52, DS 55 (Hayward, 1978a).

DISTRIBUTION: deep waters of the North Atlantic west of the Bay of Biscay and the Bay of Biscay (Hayward, 1978a).

DEPTH RANGE: 2006–4125 m.

Family Haywardozoontidae**Genus *Haywardozoom* d'Hondt, 1983**

COMPOSITION: 1 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Flustrellidra inarmata* Hayward, 1978.

DISTRIBUTION: Atlantic, deep waters of boreal and Arctic zones.

***Haywardozoom inarmata* (Hayward, 1978)**

Flustrellidra inarmata Hayward, 1978b: 161, fig. 2.

LOCALITIES: “Jean Charcot” (1975), St. DS 05, DS 08, DS 10, DS 12; “Chain” (1972), St. 330.

DISTRIBUTION: Norwegian Sea, on continental slope (Hayward, 1978b), deep waters of the North Atlantic (d'Hondt, 1983).

DEPTH RANGE: 2970–4632 m.

Family Victorellidae**Genus *Victorella* S. Kent, 1870**

COMPOSITION: 7 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Victorella pavida* Kent, 1870.

DISTRIBUTION: Atlantic Ocean deep waters — 3; Pacific Ocean — 1. Fresh and brackish waters of the Northern Hemisphere and Africa — 5 species.

***Victorella soulei* d'Hondt, 1975**

Victorella soulei d'Hondt, 1975: 327, fig. 7; Gooday, Cook, 1984: 775–776, fig. 6.

LOCALITIES: “Jean Charcot” (1971), St. 120; “Chain” (1972), St. 328.

DISTRIBUTION: North Atlantic deep waters (d'Hondt, 1975; Gooday, Cook, 1984).

DEPTH RANGE: 2100–3459 m.

Family Triticellidae**Genus *Triticella* Dalyell, 1848**

COMPOSITION: 10 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Triticella flava* Dalyell, 1848.

DISTRIBUTION: Atlantic — 6; Pacific Ocean — 4 species.

***Triticella* aff. *pedicellata* (Alder, 1857)**

Farrella pedicellata Alder, 1857: 24, pl. 14: 3; *Triticella pedicellata* — Hincks, 1880: 547, pl. 14; = *Vesicularia familiaris* — Smitt, 1866.

LOCALITY: BIOGAS V (1974), St. DS 67.

DISTRIBUTION: North Atlantic, deep waters (Hayward, 1978a), southwest Baltic Sea, Barents Sea (Varanger fjord), Norwegian Sea, North Sea, Mediterranean south of France (Kluge, 1962).

DEPTH RANGE: 5–4150 m.

***Triticella gracilis* d'Hondt et Hayward, 1981**

Triticella gracilis d'Hondt, Hayward, 1981: 276, fig. 3.

LOCALITIES: BIOGAS III (1973), St. DS 35; BIOGAS IV (1974), St. DS 62, DS 59, CP 01.

DISTRIBUTION: northeast Atlantic deep waters (d'Hondt, Hayward, 1981).

DEPTH RANGE: 2175–2790 m.

***Triticella fusiformis*
d'Hondt et Hayward, 1981**

Triticella fusiformis d'Hondt, Hayward, 1981: 277–278, photo 1, 2.

LOCALITY: INCAL (1976), St. WC 08.

DISTRIBUTION: Northeast Atlantic deep waters (d'Hondt, Hayward, 1981).

DEPTH RANGE: 4287–4301 m.

***Triticella calveti* d'Hondt et Hayward, 1981**

Triticella calveti d'Hondt, Hayward, 1981: 278–279, pl.1.

LOCALITIES: INCAL (1976), St. OS 06, OS 07, OS 08, DS 14, KR 14.

DISTRIBUTION: northeast Atlantic deep waters (d'Hondt, Hayward, 1981).

DEPTH RANGE: 4248–4291 m.

Genus *Triticellopsis* Gautier, 1961

COMPOSITION: 2 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Triticellopsis tissieri* Gautier, 1961.

DISTRIBUTION: Atlantic Ocean — 1; Mediterranean — 1 species.

***Triticellopsis sandersi* d'Hondt, 1978**

Triticellopsis sandersi d'Hondt, 1978: 331, fig. 3.

LOCALITY: “Chain” (1972), St. 328.

DISTRIBUTION: North Atlantic deep waters (d'Hondt 1978).

DEPTH RANGE: 426–4435 m.

Family Bathyalozontidae

Genus *Bathyalozoon* d'Hondt, 1975

COMPOSITION: 1 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Bathyalozoon foresti* d'Hondt, 1975.

DISTRIBUTION: Atlantic boreal zone.

***Bathyalozoon foresti* d'Hondt, 1975**

Bathyalozoon foresti d'Hondt, 1975: 555.

LOCALITY: BIOGAS IV (1974), St. DS 64.

DISTRIBUTION: northeast Atlantic deep waters (Hayward, 1978a).

DEPTH RANGE: 1200–3429 m.

Family Vesiculariidae

Genus *Bowerbankia* Farre, 1837

COMPOSITION: 14 species and 2 subspecies (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Sertularia imbricata* Adams, 1798.

DISTRIBUTION: cosmopolitan. Atlantic — 8; Arctic Ocean — 5; Antarctic — 3; Caribbean Sea — 1; Mediterranean — 1; Black Sea — 2 species; Aral (1 subspecies) and Caspian (1 subspecies) Seas.

***Bowerbankia composita* Kluge, 1955**

Bowerbankia composita — Kluge, 1962: 219, fig.123.

LOCALITIES: “Jean Charcot” (1975), St. DS 13, DS 14, DS 15, CP 13, CP 16; “Polarstern” (1993), St. 54.

DISTRIBUTION: northeast Atlantic deep waters, Norwegian Sea (Hayward, 1978b); Barents and Chukchi Seas (Kluge, 1962); Arctic Ocean north of the Laptev Sea (Gontar, 2004).

DEPTH RANGE: 43–3709 m.

Order Cheilostomatida

Suborder Anascina

Family Eucrateidae

Genus *Eucratea* Lamouroux, 1812

COMPOSITION: 2 species and 3 subspecies (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Sertularia loricata* Linnaeus, 1758.

DISTRIBUTION: Atlantic, Pacific, Arctic Ocean. Widespread boreal-arctic species.

***Eucratea loricata* (Linnaeus, 1758)**

Gemmelaria loricata — Hincks, 1880: 19, pl. 3: 1–4;

Eucratea loricata — Borg, 1930: 61, fig. 48; Kluge, 1962: 261, fig.147; Ryland, Hayward, 1998: 112, fig. 21.

LOCALITIES: “Jean Charcot” (1975), St. CP 16, DS 18, CP 17.

DISTRIBUTION: cosmopolitan; northeast Atlantic deep waters (Hayward, 1978b), shelf seas of the Arctic — Barents, Kara, White and Laptev Seas, East Siberian Sea, Canadian shelf, off western and eastern Greenland, North Sea, Bering and Okhotsk Seas and coastal zones around Alaska and California in the Pacific (Kluge, 1962). British coasts and throughout the world (Hayward, Ryland, 1998).

DEPTH RANGE: 0–2937 m.

***Eucratea loricata arctica* Kluge, 1962**

Eucratea loricata var. *arctica* Kluge, 1962: 263, fig. 148.

LOCALITIES: NORBI “Jean Charcot” (1975), St. CP 16, DS 18.

DISTRIBUTION: northeast Atlantic deep waters (Hayward, 1978a); shelf areas of the Arctic Ocean, northern part of the North Sea, Atlantic and Pacific coasts of North America (Kluge, 1962).

DEPTH RANGE: 7.5–2937 m.

***Eucratea loricata cornuta* (Osburn, 1932)**

Eucratea loricata var. *cornuta* Osburn, 1932: 6, fig. C; Kluge, 1962: 264, fig. 149.

LOCALITIES: “Polarstern” (1995), St. 23 (Sirenko et al., 2004).

DISTRIBUTION: Arctic, shelf area of the Laptev and Chukchi Seas and the East Siberian Sea (Kluge, 1962); deep waters of the Arctic Ocean (Gontar, 2004).

DEPTH RANGE: 3.5–2410 m.

Family Calloporidae**Genus *Cauloramphus* Norman, 1903**

COMPOSITION: 33 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Flustra spinifera* Johnston, 1832.

DISTRIBUTION: Atlantic — 5; Arctic — 3; Pacific Ocean — 26 species. In the Pacific: a widely distributed tropical, boreal and arctic species.

CENTRE OF DIVERSITY: Pacific.

***Cauloramphus cymbaeformis* (Hincks, 1877)**

Membranipora cymbaeformis Hincks, 1877: 99, 110; *Cauloramphus cymbaeformis* — Kluge, 1962: 298, fig. 181.

LOCALITY: “Polarstern” (1995), St. 23 (Sirenko et al., 2004).

DISTRIBUTION: northern Norway (Tromsø province — NE Finnmark) (Brattegard, 1995), Barents, Kara, Laptev, East Siberian and Chukchi Seas, Canadian Arctic Shelf, western and eastern Greenland, the Atlantic coast of Northern America to Man Bay, Bering and Okhotsk Seas (Kluge, 1962); Arctic Ocean north of the Laptev Sea (Gontar, 2004).

DEPTH RANGE: 0–2340 m.

Family Flustridae**Genus *Serratiflustra* Moyano, 1972**

COMPOSITION: 1 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Flustra serrulata* Busk, 1880.

DISTRIBUTION: Arctic Seas and deep waters of the Arctic Basin.

***Serratiflustra serrulata* (Busk, 1880)**

Flustra serrulata Busk, 1880: 234, pl. 13: 2–4; Kluge, 1962: 314, fig. 195; *Serratiflustra serrulata* — Moyano, 1972.

LOCALITY: “Polarstern” (1993), St. 54 (Sirenko et al., 2004).

DISTRIBUTION: Arctic, Barents, Kara, Laptev, East Siberian, and Chukchi Seas; Canadian shelf; Labrador and western Greenland and Newfoundland coastal waters (Kluge, 1962). Arctic Ocean north of the Laptev Sea (Gontar, 2004).

DEPTH RANGE: 20–3076 m.

Family Heliodomidae**Genus *Setosellina* Calvet, 1906**

COMPOSITION: 7 species (Bock, 2006–2014). Type species: *Setosellina roulei* Calvet, 1906.

DISTRIBUTION: Atlantic, boreal and antiboreal from sublittoral to abyssal zones — 3; Mediterranean — 1; Indonesia — 1 species.

***Setosellina goezi* (Silén, 1942)**

Setosella goezi Silén, 1942.

LOCALITIES: “Jean Charcot” (1971), St. 120, 126.

DISTRIBUTION: central Atlantic deep waters (d’Hondt, 1975).

DEPTH RANGE: 20–4690 m.

Family Cellariidae**Genus *Cellaria* Ellis et Solander, 1786**

COMPOSITION: 107 species (Bock, 2006–2014). Type species: *Farcimia sinuosa* Hassall, 1840.

DISTRIBUTION: Cosmopolitan. Atlantic — 23; Pacific — 14; Indian Ocean — 9; Antarctic — 5; Australia — 5 species.

***Cellaria sinuosa* (Hassall, 1840)**

Farcimia sinuosa Hassall, 1840; *Cellaria sinuosa* — Hayward, 1978a.

LOCALITY: BIOGAS VI, St. DS 81 (Hayward, 1978a).

DISTRIBUTION: North Atlantic west of the Bay of Biscay (Hayward, 1978a).

DEPTH RANGE: 300–4715 m.

Genus *Euginoma* Jullien 1882

COMPOSITION: 12 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Euginoma vermiformis* Jullien, 1883.

DISTRIBUTION: Atlantic — 11; Pacific Ocean — 1 species.

CENTRE OF DIVERSITY: Atlantic.

***Euginoma vermiformis* Jullien, 1882**

Euginoma vermiformis Jullien, 1882: 24–25, pl. 16: 57, pl. 17: 58–59.

LOCALITIES: “Travailleur” (1881) and “Talisman” (1882), coordinates unknown (Jullien, 1882). “Jean Charcot” (1971), St. 120, 126 (d’Hondt, 1975).

DISTRIBUTION: North Atlantic west of the Bay of Biscay (Jullien, 1882; d’Hondt, 1975).

DEPTH RANGE: 1094–3360 m.

***Euginoma cavaleri* Lagaaij, 1963**

Euginoma cavaleri Lagaaij, 1963: 179–180.

LOCALITIES: “Chain” (1972), St. 318, 321, 323 (d’Hondt, 1981).

DISTRIBUTION: North Atlantic northwest of the Bay of Biscay (d’Hondt, 1981).

DEPTH RANGE: 457–4400 m.

Family Farciminariidae**Genus *Farciminaria* Busk, 1852**

COMPOSITION: 4 species (Bock, Gordon, 2014). Type species: *Farciminaria aculeata* Busk, 1852

DISTRIBUTION: Atlantic Ocean — 1; Australia — 3 species.

***Farciminaria cribraria* Busk, 1884**

Farciminaria cribraria Busk, 1884: 48–49; *Columnella cribraria* — d’Hondt, 1975: 556.

LOCALITY: “Jean Charcot” (1971), St. 126.

DISTRIBUTION: mainly in the South Atlantic Ocean and the Atlantic sector of Antarctic deep waters, western North Atlantic (d’Hondt, 1975, 1982).

DEPTH RANGE: 3360–3447 m.

Genus *Columnella* Levensen, 1914

COMPOSITION: 11 species, 1 subspecies (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Columnaria borealis* Levensen, 1909.

DISTRIBUTION: Cosmopolitan. Atlantic — 4; Pacific — 4; Indian Ocean — 5 species.

Columnella magna (Busk, 1884)

Fasciminaria magna Busk, 1884: 49–50; *Columnella magna* — Harmer, 1926: 402.

LOCALITY: “Jean Charcot” (1971), St. 249.

DISTRIBUTION: central and eastern Atlantic in the Northern Hemisphere, and widely spread in the Southern Hemisphere, including Antarctic Seas (d’Hondt, 1982).

DEPTH RANGE: 20–4850 m.

Columnella magna voighti d’Hondt, 1975

Columnella magna voighti d’Hondt, 1975: 563, fig. 5.

LOCALITY: “Jean Charcot” (1971), St. 245.

DISTRIBUTION: eastern North Atlantic (d’Hondt, 1975)

DEPTH RANGE: 4270 m.

Columnella gracilis (Busk, 1884)

Farciminaria gracilis Busk, 1884: 51; *Columnella gracilis* — d’Hondt, 1982: 75.

LOCALITY: “Chain” (1972), St.330.

DISTRIBUTION: northern and central Atlantic Ocean (d’Hondt, 1982).

DEPTH RANGE: 607–4632 m.

Family Cymuloporidae

Genus *Crepis* Jullien, 1882

COMPOSITION: 6 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Crepis longipes* Jullien, 1882.

DISTRIBUTION: Atlantic — 2; Indian — 2, Pacific Ocean — 2 species.

Crepis longipes Jullien, 1882

Crepis longipes Jullien, 1882: 522–523, pl. 17: 60–61.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: Atlantic: Biscay Bay (Jullien, 1882).

DEPTH RANGE: 2018 m.

Family Bugulidae

Genus *Himantozoum* Harmer, 1923

COMPOSITION: 20 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Bugula mirabilis* Busk, 1884.

DISTRIBUTION: Atlantic Ocean — 4; Antarctic — 3; Pacific — 6; Indian Ocean — 7 species.

Himantozoum mirabilis (Busk, 1884)

Bugula mirabilis Busk, 1884: 24–25. *Dendrobeania (?) mirabilis* — d’Hondt, 1975; *Himantozoum mirabilis* — d’Hondt, 1982.

LOCALITY: “Jean Charcot” (1971), St. 251.

DISTRIBUTION: Atlantic abyss (d’Hondt, 1975).

DEPTH RANGE: 3360–4392 m.

Genus *Camptoplites* Harmer, 1923

COMPOSITION: 22 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Bugula bicornis* Busk, 1884.

DISTRIBUTION: boreal and antiboreal Atlantic — 3; Pacific — 2; Indian Ocean — 3; Antarctic — 15 species.

CENTRE OF DIVERSITY: Antarctic.

Camptoplites lutaudae d’Hondt, 1975

Camptoplites lutaudae d’Hondt, 1975: 572, fig. 3, 11.

LOCALITIES: “Jean Charcot” (1971), St. 245, 249; BIOGAS IV (1974), St. DS 55; BIOGAS VI (1974), St. CP 16, CP 17, DS 79, KR 65.

DISTRIBUTION: northeast Atlantic (d’Hondt, 1975; Hayward, 1978a).

DEPTH RANGE: 3360–4550 m.

Camptoplites reticulatus (Busk, 1884)

Bugula reticulatus Busk, 1884; *Camptoplites reticulatus* — d’Hondt, 1975; Hayward, 1978a.

LOCALITIES: “Jean Charcot” (1971), St.120, 126, 245, 251; “Chain” (1972), St. 326; BIOGAS VI (1974), St. CP 13, CP 17.

DISTRIBUTION: North Atlantic (Hayward, 1978a; d’Hondt, 1983), South Atlantic, Atlantic and Pacific sectors of the Antarctic (d’Hondt, 1982).

DEPTH RANGE: 430–4706 m.

Genus *Kinetoskias* Daniellsen, 1868

COMPOSITION: 11 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Kinetoskias smitti* Daniellsen, 1868.

DISTRIBUTION: cosmopolitan. Atlantic — 4; Arctic — 3; Pacific — 3; Indian Ocean — 2 species.

Kinetoskias smitti (Daniellsen, 1867)

Kinetoskias smitti — Kluge, 1962: 350–352, fig. 221.

LOCALITIES: “Chain” (1972), St. 326, 330.

DISTRIBUTION: deep waters of the western North Atlantic and the Arctic Seas (Kluge, 1962; d’Hondt, 1983), southwestern Atlantic (d’Hondt, 1983).

DEPTH RANGE: 65–4632 m.

Kinetoskias cyathus (Thomson, 1873)

Kinetoskias cyathus — Busk, 1884: 44–45.

LOCALITY: “Jean Charcot” (1971), St. 249.

DISTRIBUTION: Atlantic and Indian Ocean abyss (d’Hondt, 1975, 1982).

DEPTH RANGE: 2790–4850 m.

Genus *Bugula* Oken, 1815

COMPOSITION: 82 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Sertularia neretina* Linnaeus, 1758.

DISTRIBUTION: cosmopolitan. Atlantic — 38; Pacific — 34; Indian — 27; Arctic Ocean — 7 species.

“*Bugula neretina sessilis*” d’Hondt, 1974

Bugula neretina subsp. *sessilis* d’Hondt, 1974: 37, fig. 3; Hayward, 1978a: 213, fig. 2.

LOCALITY: BIOGAS VI (1974), St. CP 17.

DISTRIBUTION: continental slope of Europe west of the Bay of Biscay (Hayward, 1978a).

DEPTH RANGE: 1500–2502 m.

***Bugula stolonifera* Ryland, 1960**

Bugula stolonifera — Ryland, Hayward, 1998: 228–229, fig. 72.

LOCALITY: “Chain” (1972), St. 330 (d’Hondt, 1983).

DISTRIBUTION: cosmopolitan (Hayward, Ryland, 1998).

DEPTH RANGE: 15–4632 m.

Genus *Bicellariella* Levinsen, 1909

COMPOSITION: 6 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Sertularia ciliata* Linnaeus, 1758.

DISTRIBUTION: cosmopolitan. Atlantic — 2; Arctic Seas — 1; Pacific — 3; Indian Ocean — 3 species.

***Bicellariella ciliata* (Linnaeus, 1758)**

Bicellariella ciliata — Hincks, 1880: 68, pl. 8:1–5; Kluge, 1962: 357, fig. 224; Hayward, Ryland, 1998: 240, fig. 77.

LOCALITY: “Jean Charcot” (1975), St. DS 11 (Hayward, 1978b).

DISTRIBUTION: central Norway from shallow to deep waters of the Norwegian Sea, South Atlantic, Indo-Pacific (Hayward, Ryland, 1998).

DEPTHS RANGE: 20–2957 m.

Genus *Cornucopina* Levinsen, 1909

COMPOSITION: 27 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Bicellaria grandis* Busk, 1852.

DISTRIBUTION: Atlantic — 3; Pacific — 5; Indian Ocean — 14; Antarctic — 6 species.

CENTRE OF DIVERSITY: Indian Ocean.

***Cornucopina rotundata* (Kluge, 1914)**

Bicellaria rotundata Kluge, 1914: 640–741, pl. 33: 2; *Cornucopina rotunda* — d’Hondt, 1975: 556.

LOCALITIES: “Jean Charcot” (1971), St. 245, 249 (d’Hondt 1975); “Chain” (1972), St. 328 (d’Hondt, 1981).

DISTRIBUTION: central and South Atlantic, Atlantic and Indo-Australian sectors of the Antarctic Ocean (d’Hondt, 1975).

DEPTH RANGE: 3397–4690 m.

Family Candidae**Genus *Caberea* Lamouroux, 1816**

COMPOSITION: 32 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Caberea dichotoma* Lamouroux, 1816.

DISTRIBUTION: widespread. Atlantic — 8; Pacific — 21; Arctic — 1; Indian Ocean — 9; Antarctic — 1 species.

CENTRE OF DIVERSITY: Pacific.

***Caberea ligata* Jullien, 1882**

Caberea ligata Jullien, 1882: 518–519, pl. 16: 51–54.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: Atlantic, Bay of Biscay (Jullien, 1882; d’Hondt, 1975).

DEPTH RANGE: 76–2330 m.

Genus *Tricellaria* Fleming, 1828

COMPOSITION: 20 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Cellaria ternata* Ellis et Solander, 1786.

DISTRIBUTION: widespread. Atlantic — 5; Pacific — 15; Arctic seas — 3 species and subspecies; Indian Ocean — 5 species; Subantarctic — 1.

***Tricellaria gracilis* (Van Beneden, 1848)**

Cellularia ternata forma *gracilis* — Smitt, 1868: 283, 308, t.16, f.17–23; *Tricellaria gracilis* — Kluge, 1962: 375, f.236.

LOCALITY: “Polarstern” (1993), St. 54 (Sirenko et al., 2004).

DISTRIBUTION: margins of Atlantic, Arctic and Pacific Oceans (Kluge, 1962) and north of the Laptev Sea (Gontar, 2004).

DEPTH RANGE: 51–3028 m.

Genus *Notoplites* Harmer, 1923

COMPOSITION: 43 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Notoplites rostratus* Harmer, 1923.

DISTRIBUTION: widespread. Atlantic — 12; Pacific — 7; Indian Ocean — 14, Antarctica — 10 species.

***Notoplites evocatus* (Jullien, 1882)**

Bicellaria evocata — Jullien, 1882: pl.14: 21–22, *Notoplites evocata* — Hayward, Ryland, 1998: 260, f.85.

LOCALITIES: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882); “Chain” (1972), St.328 (d’Hondt, 1981).

DISTRIBUTION: North Atlantic west of the Bay of Biscay (Jullien, 1882; d’Hondt, 1975), West Atlantic (d’Hondt, 1982).

DEPTH RANGE: 300–4690 m.

***Notoplites marsupiatu* (Jullien, 1882)**

Scrupocellaria marsupiatu Jullien, 1882: pl. 13: 17–20; *Notoplites marsupiatu* — Bock, Gordon, 2014.

LOCALITIES: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882); “Jean Charcot” (1971), St. 120, 165, 245, 249.

DISTRIBUTION: North Atlantic, west of Bay of Biscay (Jullien, 1882; d’Hondt, 1975).

DEPTH RANGE: 520–4690 m.

Genus *Paralicornia* Vieira, Spencer Jones, Winston, Migotto et Marques, 2014

COMPOSITION: 7 species (Vieira et al., 2014). Type species: *Scrupocellaria sinuosa* Canu et Bassler, 1927.

DISTRIBUTION: Atlantic — 1; Pacific — 3; Indian Ocean — 3 species.

***Paralicornia pusilla* (Smitt, 1872)**

Cellularia pusilla Smitt, 1872: 13, pl.5: 32–34; *Scrupocellaria pusilla* — Jullien, 1882: 506; *Paralicornia pusilla* — Vieira, Spenser Jones, Winston, Migotto et Marques, 2014.

LOCALITIES: “Travailleur” (1882), dredge station, coordinates unknown (Jullien, 1882); “Chain” (1972), St. 328 (d’Hondt, 1981).

DISTRIBUTION: North Atlantic to the west from the Bay of Biscay (Jullien, 1882; d’Hondt, 1975), West Atlantic (d’Hondt, 1982).

DEPTH RANGE: 300–4690 m.

Genus *Jubella* Jullien, 1882

COMPOSITION: 1 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Jubella enucleata* Jullien, 1882.

DISTRIBUTION: boreal Atlantic — 1 species.

***Jubella enucleata* Jullien, 1882**

Jubella enucleata Jullien, 1882: 519–520, pl. 16: 55–56.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: Atlantic Ocean, west of the Bay of Biscay (Jullien, 1882) and east of the Azores, (d’Hondt, 1975).

DEPTH RANGE: 358–2018 m.

Family Bifaxariidae**Genus *Bifaxaria* Busk, 1884**

COMPOSITION: 8 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Bifaxaria submucronata* Busk, 1884

DISTRIBUTION: Atlantic — 1; Pacific Ocean — 7 species.

***Bifaxaria submucronata* Busk, 1884**

Bifaxaria submucronata — Harmer, 1957: 861–862.

LOCALITIES: “Chain” (1972), St. 330.

DISTRIBUTION: North Atlantic (d’Hondt, 1983).

DEPTH RANGE: 770–3356 m.

Family Romancheidae**Genus *Pseudosclerodomus*****d’Hondt et Schopf, 1984**

COMPOSITION: 5 species (Bock, Gordon, 2014). Type species: *Bifaxaria reticulata* Busk, 1884.

DISTRIBUTION: Atlantic Ocean — 5 species.

***Pseudosclerodomus reticulata* (Busk, 1884)**

Bifaxaria reticulata Busk, 1884: 82; d’Hondt, 1975: fig. 12, 19, 20.

LOCALITY: “Jean Charcot” (1971), St. 130.

DISTRIBUTION: North Atlantic (d’Hondt, 1975).

DEPTH RANGE: 2790–4850 m.

Family Smittinidae**Genus *Prenantia* Gautier, 1962**

COMPOSITION: 7 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Lepralia cheilostoma* Manzoni, 1869

DISTRIBUTION: North Atlantic — 2; Mediterranean — 3; New Zealand — 2.

***Prenantia spectrum* (Jullien, 1882)**

Smittia spectrum Jullien, 1882: 515, pl. 15: 42.

LOCALITY: “Travailleur” (1881). Dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: North Atlantic, west of Bay of Biscay (Jullien, 1882).

DEPTH RANGE: 2018 m.

Genus *Pseudoflustra* Bidekap, 1897

COMPOSITION: 10 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Flustra solida* Stimpson, 1853.

DISTRIBUTION: North Atlantic — 8; Arctic Ocean — 5 species.

CENTRE OF DIVERSITY: North Atlantic.

***Pseudoflustra aviculata* (Calvet, 1906)**

Ichthyaria aviculata Calvet, 1906; *Pseudoflustra aviculata* — d’Hondt, 1972: 380–382.

LOCALITIES: “Jean Charcot” (1971), St. 120, 130.

DISTRIBUTION: northern Atlantic (d’Hondt, 1975).

DEPTH RANGE: 450–3360 m.

***Pseudoflustra perrieri* (Jullien, 1882)**

Smittia perrieri Jullien, 1882: 515, pl. 15, 16: 43–44, *Pseudoflustra perrieri* — Kuklinski et al., 2013.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: North Atlantic, west of the Bay of Biscay (Jullien, 1882).

DEPTH RANGE: 2018 m.

Family Microporellidae

Genus *Microporella* Hincks, 1877

COMPOSITION: 116 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Eschara ciliata* Pallas, 1766

DISTRIBUTION: Cosmopolitan. Atlantic — 19; Mediterranean — 3; Arctic Ocean — 3; Pacific — 61; Indian Ocean — 14; Antarctic — 3 species.

CENTRE OF DIVERSITY: Pacific.

Microporella insperata Jullien, 1882

Microporella insperata Jullien, 1882: 505, pl.13: 12.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: North Atlantic, west of the Bay of Biscay.

DEPTH RANGE: 2018 m.

Family Tessaradomidae

Genus *Tessaradoma* Norman, 1869

COMPOSITION: 5 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Pustulipora gracilis* Sars, 1850 (non Milne Edwards, 1838).

DISTRIBUTION: Atlantic and Arctic Ocean.

Tessaradoma boreale (Busk, 1860)

Porina borealis — Hincks, 1880: 229, pl. 31: 4–6; *Tessaradoma gracile* — Kluge, 1962: 522.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: North Atlantic (Jullien, 1882), Barents, Kara, Laptev Seas, Norwegian coast, west of Greenland (Kluge, 1962), South Atlantic (Hayward, Ryland, 1999).

DEPTH RANGE: 2018 m.

Family Philodoporidae

Genus *Reteporella* Busk, 1884

COMPOSITION: 118 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Reteporella flabellata* Busk, 1884.

DISTRIBUTION: cosmopolitan. Arctic — 3; Atlantic — 21; Mediterranean — 8; Pacific — 42; Indian Ocean — 12; Antarctic — 14 species.

Reteporella arborea (Jullien, 1882)

Retepora arborea Jullien, 1882: 517–518, pl. 16: 49–50.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: North Atlantic (Jullien, 1882).

DEPTH RANGE: 2018 m.

Family Celleporidae

Genus *Palmicellaria* Alder, 1864

COMPOSITION: 6 species (Bock, Gordon, 2014). Type species: *Palmicellaria elegans* Alder, 1864.

DISTRIBUTION: Atlantic boreal zone.

Palmicellaria? inermis Jullien 1882

Palmicellaria inermis Jullien, 1882: 517, pl. 16: 48.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DEPTH RANGE: 2018 m.

REMARKS: the species requires revision, because the genus was revised and because features of this species are quite different from those of other species of *Palmiskenia* or *Palmicellaria*.

Family Teuchoporidae Neviani, 1895

Genus *Teuchopora* Neviani, 1895

COMPOSITION: 3 species (Bock, 2006–2014).

Type species: *Alecto castocarensis* Manzoni, 1875.

DISTRIBUTION: Atlantic — 1, Pacific Ocean — 1 species.

Teuchopora edwardsi (Jullien, 1882)

Lagenipora edwardsi — Jullien, 1882: 510, pl. 14: 30–31; *Teuchopora edwardsi* — Bock, Gordon, 2014.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: the Bay of Biscay (Jullien, 1882).

DEPTH RANGE: 2018–3307 m.

Family Ascosiidae

Genus *Ascoscia* Jullien, 1882

COMPOSITION: 1 species (Bock, 2006–2014).

Type species: *Ascoscia pandora* Jullien, 1882.

DISTRIBUTION: Atlantic boreal zone.

Ascoscia pandora Jullien, 1882

Ascoscia pandora Jullien, 1882: 505, pl. 13: 13–14.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: the Bay of Biscay, Mediterranean (Jullien, 1882).

DEPTH RANGE: 1500–2018 m.

Genus *Fedora* Jullien, 1882

COMPOSITION: 11 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Fedora edwardsi* Jullien, 1882.

DISTRIBUTION: Atlantic Ocean — 4 species.

Fedora edwardsi Jullien, 1882

Fedora edwardsi Jullien, 1882: 514, pl. 14, 39–40.

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: North Atlantic, west of the Bay of Biscay (Jullien, 1882).

DEPTH RANGE: 2018 m.

Family Pasytheidae

Genus *Gemellipora* Smitt, 1873

COMPOSITION: 1 species (Bock, 2006–2014; Bock, Gordon, 2014). Type species: *Gemellipora eburnea* Smitt, 1873.

DISTRIBUTION: North Atlantic.

***Gemellipora eburnea* Smitt, 1873**

LOCALITY: “Travailleur” (1881), dredge station, coordinates unknown (Jullien, 1882).

DISTRIBUTION: Atlantic, Bay of Biscay, Caribbean (Jullien, 1882).

DEPTH RANGE: 58–2018 m (d’Hondt, 1975).

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