

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

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**ABSTRACT:** An annotated check-list is given of Bivalvia species occurring deeper than 2000 m in the seas bordering Europe. The check-list is based on published data. The check-list includes 252 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, Bivalvia.

## **Глубоководная фауна европейских морей: аннотированный список видов донных беспозвоночных, обитающих глубже 2000 м в морях, окружающих Европу. Bivalvia**

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**РЕЗЮМЕ:** Приводится аннотированный список видов Bivalvia, обитающих глубже 2000 м в морях, окружающих Европу. Список основан на опубликованных данных. Список насчитывает 252 вида. 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:** глубоководная фауна, европейские моря, Bivalvia.

The main part of the list contains bivalve species which usually occur at depths exceeding 2000 m. Additionally in the main list we have included species for which most records have come from the depths between 1000 and 2000 m (e.g. *Ennucula aegeensis*, *Nucula sulcata*, *Myrtea spinifera* etc.) and which have been recorded only exceptionally from depths below 2000 m. However, some shallow water species, which mostly occur at depth less than 1000 m, have been recorded from single stations deeper than 2000 m. These species are excluded from the main list but are included in an appendix for the sake of completeness. The classification mainly follows WoRMS (22.07.2013) but in some cases we accepted other versions closest to our own opinions. The order of the families is after Bieler et al. (2010).

## Phylum Mollusca

### Class Bivalvia

#### Family Nuculidae

#### Genus *Brevinucula* Thiele, 1934

Type species: *Nucula guineensis* Thiele, 1931.

#### *Brevinucula verrillii* (Dall, 1886)

*Nucula trigona* Verrill, 1885: 438 (*non* Bronn, 1849 *nec* Seguenza, 1877); *Nucula verrillii* Dall, 1886: 248 (replacement name for *N. trigona* Verrill); Dall, 1889: 42; Dall, 1890: 257, pl. 14, fig. 4; Bush, 1893: 240, pl. 1, figs 6,7; Verrill, Bush, 1898: 853, pl. 95, fig. 10; Clarke, 1962: 49; *Brevinucula verrillii* — Schenck, 1934: 41; Knudsen, 1970: 19, pl. 1, fig. 4, text-figs 3, A, B; Rhind and Allen, 1992: 83, figs 29–32; Allen, 2008: 137 ff.; *Nucula guineensis* Thiele in Thiele, Jaekel, 1931: 35, pl. 2, figs 35, 35a; Clarke, 1962: 48; *Brevinucula guineensis* — Schenck, 1934: 4, pl. 5, figs 2, 2a–2c.

LOCALITIES: “Chain”, St. 318, 321, 323, 329, 330 (Rhind, Allen, 1992; Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1976–4749 m.

#### Genus *Deminucula* Iredale, 1931

Type species: *Nucula praetenta* Iredale, 1924.

#### *Deminucula striatissima* (Seguenza, 1877)

*Nucula striatissima* Seguenza, 1877a: 92; Seguenza, 1877b: 1166, pl. 1, figs 1, 1a–c; Jeffreys, 1879: 583; Locard, 1898: 326; *Deminucula striatissima* — La Perna, 2003: 24.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1879); “Talisman” 1883, St. 42 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1190–2074 m.

#### Genus *Ennucula* Iredale, 1931

Type species: *Nucula obliqua* Lamarck, 1819.

#### *Ennucula aegeensis* (Forbes, 1844)

*Nucula aegeensis* Forbes, 1844: 192; Jeffreys, 1879: 581; Jeffreys, 1882b: 28; Locard, 1898: 338, pl. 14, figs 26–29; *Nucula aegeoensis* (sic!) — D’Amico, 1912: 239, 272; *Ennucula aegeensis* — Salas, 1996: 38, figs 16–18; La Perna, 2003: 23, pl. 1: 3; Giannuzzi-Savelli et al., 2001: 48, figs 26–28.

LOCALITIES: “Porcupine” 1870, St. 51 (Jeffreys, 1879); Mediterranean “between Sardinia and Naples”: 2783–2811 m (Jeffreys, 1882b; Locard, 1898); “Washington” 1881, St. 8 (D’Amico, 1912).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 64–2836 m.

#### *Ennucula corbuloides* (Seguenza, 1877)

*Nucula corbuloides* Seguenza, 1877a: 92; Seguenza, 1877b: 1169, pl. 1, figs 3, 3a–b; Jeffreys, 1879: 582; Jeffreys, 1882b: 28; Locard, 1898: 339; D’Amico, 1912: 239, 271; *Lionucula corbuloides rotundata* Nordsieck, 1971: 188, fig. 7; Nordsieck, 1973: 25 (*non* Seguenza); *Leionucula corbuloides* — Janssen, 1989: 270; *Ennucula corbuloides* — Di Geronimo, La Perna, 1997: 404, pl. 5, figs 1–7, 15–16; Giannuzzi-Savelli et al., 2001: 48, fig. 29; La Perna, 2003: 23, pl. 1: 7; *Nucula subovata* Verrill, Bush, 1898: 852, pl. 81, fig. 8; pl. 83, fig. 5 (*non* Orbigny, 1850); *Nucula bushi* Dollfus, 1898: 180 (replacement name for *N. subovata* Verrill et Bush); *Nucula bushae* emend. — Schenck, 1939: 37; Rhind, Allen, 1992: 73, figs 9–11; Salas, 1996: 38, figs 19–21.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1879); Mediterranean “between Sardinia and Naples”: 2783–2811 m (Jeffreys, 1882b); “Travailleur” 1881, St. 1; 1882, St. 50 (Locard, 1898); “Washington” 1881, St. 8 (D’Amico, 1912); “Chain”, St. 316; POLYGAS, St. DS 18, DS 25, DS 26; “Challenger”, St. 12, 61, 159, 188, 215, 232, 272, 273; BIOGAS I, St. DS 11; BIOGAS III, St. DS 50; BIOGAS IV, St. DS 52; BIOGAS V, St. CP 07; BIOGAS VI, St. DS 71; INCAL, St. DS 02, CP 02 (Rhind, Allen, 1992); “Meteor” 17, St. B2, D1 (Nordsieck, 1971, 1973); “Meteor” 5, St. 14, 15 (Janssen, 1989); BALGIM, St. CP 68 (Salas, 1996).

DISTRIBUTION: North and East Atlantic, Mediterranean.

DEPTH RANGE: 509–3910 m.

#### *Ennucula granulosa* (Verrill, 1884)

*Nucula granulosa* Verrill, 1884: 280; Verrill, Bush, 1898: 853, pl. 81, fig. 2, pl. 88, fig. 8; *Nuculoma granulosa* — Rhind, Allen, 1992: 78, figs 19–22; Allen, 2008: 136.

LOCALITIES: “Sarsia”, St. 63; “Challenger”, St. ES 20 (Rhind, Allen, 1992); INCAL, St. DS 06 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 811–3834 m.

***Ennucula tenuis* (Montagu, 1808)**

*Arca tenuis* Montagu, 1808: 56, pl. 29:1; *Nucula tenuis* — Jeffreys, 1879: 581; Tebble, 1966: 28, text-fig. 14e, pl. 1, fig. A; *Nucula (Ennucula) tenuis* — Schenck, 1939: 33, pl. 8, figs 1–4, 9, 12, 14–15; *Nuculoma tenuis* — Giannuzzi-Savelli et al., 2001: 46, fig. 25.

LOCALITIES: “Porcupine” 1869, St. 17 (Jeffreys, 1879).

DISTRIBUTION: Arctic, North Atlantic, North Pacific.

DEPTH RANGE: 3–2250 m.

**Genus *Nucula* Lamarck, 1799**

Type species: *Arca nucleus* Linnaeus, 1758.

***Nucula atacellana* Schenck, 1939**

*Nucula reticulata* Jeffreys, 1876c: 429 (non Hinds, 1843); Jeffreys, 1879: 583, pl. 46:7; Smith, 1885: 229; *Nucula cancellata* Jeffreys, 1882a: 951 (replacement name for *N. reticulata* Jeffreys, 1876; non Meek, Hayden, 1856); Verrill, Bush, 1898: 854, pl. 81: 3, pl. 86: 5; Knudsen, 1970: 164; *Nucula (Nucula) atacellana* Schenck, 1939: 27, pl. 5: 4, 5, 9, 10, 13, 16 (replacement name for *N. reticulata* Jeffreys, 1876); Salas, 1996: 36, figs 7–9; *Deminucula atacellana* — Rhind, Allen, 1992: 65, figs 2–4, 5a, 6, 7a; Allen, 2008: 136 ff.

LOCALITIES: “Porcupine” 1869, St. 19, 20, 21, 28, 30 (Jeffreys, 1879); “Sarsia”, St. S 50; “Chain”, St. 316, 318, 321; POLYGAS, St. DS 18, DS 25, DS 26; “Challenger”, St. 2, 6, 8, 10, 12, 27, 34, 48, 49, 51, 55, 56, 57, 58, 59, 110, 111, 118, 121, 124, 135, 137, 174, 176, 185, 231; BIOGAS II, St. DS 32; BIOGAS III, St. DS 37, DS 41, DS 50; BIOGAS IV, St. DS 51, DS 52, DS 62, DS 63, DS 64; BIOGAS V, St. CP 07; BIOGAS VI, St. DS 71; INCAL, St. DS 01, DS 02, CP 03, CP 04, DS 05, DS 06, DS 07, DS 08, CP 05, CP 06, CP 07, DS 09, CP 08 (Rhind, Allen, 1992; Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 700–4938 m.

***Nucula callicredemna* Dall, 1890**

*Nucula callicredemna* Dall, 1890: 258, pl. 13: 9; *Nucula aureliae* Métivier, 1982: 39, pl. 1: 1–3.

LOCALITIES: BIACORES, St. 126 (Métivier, 1982).

DISTRIBUTION: Central North Atlantic near the Azores.

DEPTH RANGE: 3360 m.

***Nucula nitidosa* Winckworth, 1930**

*Nucula nitida* Sowerby, 1833: fig. 20 (non Brocchi, 1814); Jeffreys, 1879: 584; *Nucula nitidosa* Winckworth, 1930: 14 (replacement name for *N. nitida* Sowerby); Salas, 1996: 36, figs 10–12; Giannuzzi-Savelli et al., 2001: 44, figs 9–10; *Nucula turgida* Tebble, 1966: 27, text-figs 1, 14b, pl. 1: b, d.

LOCALITIES: “Porcupine” 1869, St. 19; 1870, St. 51 (Jeffreys, 1879).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 8–2589 m.

***Nucula sulcata* Bronn, 1831**

*Nucula sulcata* Bronn, 1831: 109; Jeffreys, 1879: 583; Locard, 1898: 334; Tebble, 1966: 25, text-fig. 14d, pl. 1, fig. c; Salas, 1996: 35, figs 1–3; Giannuzzi-Savelli et al., 2001: 46, figs 18–24.

LOCALITIES: “Porcupine” 1869, St. 17 (Jeffreys, 1879); “Travailleur” 1881, St. 1 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 5–2251 m.

***Nucula tumidula* Malm, 1861**

*Nucula tumidula* Malm, 1861: 621; Jeffreys, 1879: 582; Locard, 1898: 327; Clarke, 1962: 48; Salas, 1996: 36, figs 4–6.

LOCALITIES: “Porcupine” 1870, St. 17; (Jeffreys, 1879); “Travailleur” 1881, St. 1 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 37–2650 m.

***Nucula zophos* Clarke, 1960**

*Nucula zophos* Clarke, 1960: 5, pl. 1: 15–18; Clarke, 1963: 99; Bernard, 1979: 11, fig. 2; Knudsen, 1985: 98. LOCALITIES: “FRAM I Drift-Ice Expedition”, St. 18 (Knudsen, 1985).

DISTRIBUTION: Arctic Ocean.

DEPTH RANGE: 530–2300 m.

***Nucula* sp.**

*Nucula* sp. 330 — Allen, 2008: 152.

LOCALITIES: “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 4632 m.

**Family Sareptidae****Genus *Pristigloma* Dall, 1900**

Type species: *Glomus nitens* Jeffreys, 1876.

***Pristigloma alba* Sanders et Allen, 1973**

*Pristigloma alba* Sanders, Allen, 1973: 244, figs 4, 7–9; Allen, 2008: 137 ff.

LOCALITIES: “Chain”, St. 330; INCAL, St. DS 09; BIOGAS IV, St. DS 54; BIOGAS V, St. DS 67; “Challenger”, St. 10 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 2178–4833 m.

***Pristigloma nitens* (Jeffreys, 1876)**

*Glomus nitens* Jeffreys, 1876b: 433; Jeffreys, 1879: 573, pl. 45: 5; Smith, 1885: 248; Verrill, Bush, 1897: 53, figs 1, 2; Verrill, Bush, 1898: 848, pl. 97: 1, 2; *Pristigloma nitens* — Sanders, Allen, 1973: 240, figs 1–6; Ockelmann, Warén, 1998: 5, figs 3D–F; Allen, 2008: 137 ff.

LOCALITIES: "Porcupine" 1869, St. 19, 20, 21, 22, 30, 31 (Jeffreys, 1879); "Sarsia", St. S50 (Sanders, Allen, 1973); "Challenger", St. 6, 10; "Chain", St. 316, 318, 321, 326, 328; INCAL, St. DS 05, DS 06, DS 09, DS 10; POLYGAS, St. DS 23; BIOGAS IV, St. DS 51 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 2022–4853 m.

### Family Bathyspinulidae

#### Genus *Bathyspinula* Filatova, 1958

Type species: *Leda* (*Spinula*) *calcar* Dall, 1908.

#### *Bathyspinula filatovae* (Knudsen, 1967)

*Spinula filatovae* Knudsen, 1967: 257, fig. 8; Allen, Sanders, 1982: 3, figs 1–7, 28; Allen, 2008: 126.

REMARKS: This species was originally described from the Gulf of Aden. The identification of European material needs confirmation.

LOCALITIES: "Sarsia", St. S 44, 7610 (Allen, Sanders, 1982); BIOGAS IV, St. DS 52 (Allen, 2008).

DISTRIBUTION: Indian Ocean; Northeast Atlantic.

DEPTH RANGE: 1100–4340 m.

#### *Bathyspinula hilleri* (Allen et Sanders, 1982)

*Spinula hilleri* Allen, Sanders, 1982: 12, figs 11–15, 28.

LOCALITIES: "Chain", St. 323; POLYGAS, St. DS 15 (Allen, Sanders, 1982).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 2044–5227 m.

#### *Bathyspinula subexcisa*

#### (Dautzenberg et Fischer, 1897)

*Malletia excisa* Jeffreys, 1876b: 435; Jeffreys, 1879: 586 (non Philippi); *Leda excisa* var. *subexcisa* Dautzenberg, Fischer, 1897: 205; *Spinula subexcisa* — Knudsen, 1970: 165; Allen, Sanders, 1982: 21, figs 22–28; Allen, 2008: 132 ff.; *Bathyspinula* (*B.*) *subexcisa* — La Perna, 2008: 157, figs 7a, 8a–k, r, s.

REMARKS: Warén (1989b: 241) suggested to synonymize the fossil *B. excisa* (Philippi, 1844) with the living species *B. subexcisa*. According to La Perna (2003: 26) *excisa* is different from the living deep-water species *subexcisa* so synonymy of the two forms is rejected.

LOCALITIES: "Valorous", St. 12 (Jeffreys, 1876b); "Porcupine" 1869, St. 20, 21, 28 (Jeffreys, 1879); POLYGAS, St. DS 23 (La Perna, 2008); BIOGAS I, St. DS 13; BIOGAS III, St. DS 41; INCAL, St. DS 05, DS 06, DS 07, DS 08, DS 09, DS 10, DS 16; "Chain", St. 318, 321 (La Perna, 2008; Allen, 2008); "Challenger", St. 4, 6, 10 (Allen, Sanders, 1982; Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 1848–5153 m.

### Family Mallettiidae

#### Genus *Clencharia* Clarke, 1961

Type species: *Tindaria* (*Clencharia*) *diaphana* Clarke, 1961.

#### *Clencharia abyssorum* (Verrill et Bush, 1898)

*Malletia abyssorum* Verrill, Bush, 1898: 875, pl. 97: 7; Sanders, Allen, 1985: 197, figs 1, 2, 3, 4, 5, 8; *Tindaria* (*Clencharia*) *diaphana* Clarke, 1961: 374, pl. 1: 2.

LOCALITIES: "Chain", St. 328, 330; POLYGAS, St. DS 20, DS 21, DS 22, DS 23; BIOGAS II, St. DS 30; BIOGAS III, St. DS 46, CV 30, DS 48; BIOGAS IV, St. DS 53, DS 54, DS 55, CV 36; BIOGAS V, St. DS 67, DS 68, DS 69; BIOGAS VI, St. DS 75, CP 13, DS 76, DS 77, DS 78, DS 79, CP 17, DS 80, DS 81, CP 19, DS 82, DS 84, DS 85, CP 21, CP 22 (Sanders, Allen, 1985).

DISTRIBUTION: Atlantic, Indian Ocean.

DEPTH RANGE: 2864–5280 m.

#### Genus *Katadesmia* Dall, 1908

Type species: *Yoldia* (*Katadesmia*) *vincula* Dall, 1908.

#### *Katadesmia cuneata* (Jeffreys, 1876)

*Malletia cuneata* Jeffreys, 1876b: 435; Jeffreys, 1879: 586 partim, pl. 46: 10; Locard, 1898: 332 partim; D'Amico, 1912: 239, 273; Clarke, 1962: 50; Knudsen, 1970: 64 partim, text-figs 42, 43, pl. 6: 13; Salas, 1996: 45, figs 65–67; Allen, 2008: 127 ff.; *Malletia pellucida* Thiele, 1912: 254, pl. 17: 23; Clarke, 1962: 51; *Malletia* (*Neilo*) *fiora* Dall, 1916: 400; Clarke, 1962: 51; *Neilonella cuneata* — Soot-Ryen, 1966: 3; *Portlandia kolthoffi* — Soot-Ryen, 1966: 3; *Katadesmia cuneata* — Bouchet, Warén, 1979: 213; Sanders, Allen, 1985: 227 partim, figs 34–38; Warén, 1989b: 250; Giannuzzi-Savelli et al., 2001: 54, fig. 49.

REMARKS: Jeffreys (1879) listed *M. cuneata* from stn 51 in the Mediterranean. Material from this station was examined by Knudsen (1970: 66). He stated that this "should obviously be assigned to a different species". The identity of this material remains doubtful, as it does not belong to *obtusata* either.

LOCALITIES: "Valorous", St. 12 (Jeffreys, 1876b; Knudsen, 1970); "Porcupine" 1869, St. 19, 20, 28; 1870, St. 17 (Jeffreys, 1879; Knudsen, 1970); "Travailleur" 1881, St. 1, 10; "Talisman" 1883, St. "136"=150 (Locard, 1898; Knudsen, 1970); "Washington" 1881, St. 8 (D'Amico, 1912); "Sarsia", St. 50; "Challenger", St. 10 (Allen, 2008); "Chain", St. 321, 323, 326, 328; POLYGAS, St. DS 20, DS 21, DS 22, DS 23; BIOGAS II, St. DS 30, CV 18; BIOGAS III, St. DS 41, DS 42, DS 44, DS 45, CV 27, CV 30; BIOGAS IV, St. DS 54, DS 55, DS 56, DS 57, DS 58, DS 0, DS 61, CV 36; BIOGAS V, DS 66, DS 67; BIOGAS VI, St. CP 13, CP 14, CP 15, CP 17, DS 75, DS 76, DS 77, DS 78, DS 79, DS 80, DS 82, DS 84 (Sanders, Allen, 1985); INCAL, St. DS 01, DS 02, DS 08 (Allen, 2008).

DISTRIBUTION: Atlantic, Mediterranean (?).  
DEPTH RANGE: 1800–4734 m.

### *Katadesmia kolthoffi* (Hägg, 1904)

*Malletia cuneata* — Friele, Grieg, 1901: 13 (non Jeffreys); *Portlandia kolthoffi* Hägg, 1904: 12, pl. 1: 1–3; *Neilonella kolthoffi* — Gorbunov, 1946: 312, 320, pl. 2, figs 2a–c, pl. 3, figs 2a–c, text-fig. 4; Clarke, 1962: 50; *Katadesmia kolthoffi* — Bouchet, Warén, 1979: 214, figs 2A–B, 21–22; Knudsen, 1985: 99; Warén, 1989a: 130; Warén, 1989b: 249, figs 3C, 4E, 15C–D; Richling, 2000: 36, figs 38, 39; *Katadesmia cuneata* — Sanders, Allen, 1985: 227 partim.

LOCALITIES: “Sadko”, St. 6 (Gorbunov, 1946); “Vöringen”, St. 52, 183, 213, 353 (Friele, Grieg, 1901); NORBI, 1975, St. 1–11 (Bouchet, Warén, 1979); “Fram I”, St. 1, 3, 4, 12, 15, 17, 18 (Knudsen, 1985); “Ymer”, St. MB 9 (DE2) (Warén, 1989a).

DISTRIBUTION: Arctic Ocean, Norwegian Sea (Gorbunov, 1946; Warén, 1989b).

DEPTH RANGE: 1036–3930 m.

### *Katadesmia polita* (Verrill et Bush, 1898)

*Malletia polita* Verrill, Bush, 1898: 876, pl. 82:10; Knudsen, 1970: 168; Sanders, Allen, 1985: 222, figs 29–33; *Malletia (Malletia) bermudensis* Haas, 1949: 71, fig. 6.

LOCALITIES: POLYGAS, St. CV 15; DS 23; BIOGAS III, St. DS 46; BIOGAS IV, St. DS 59; BIOGAS VI, St. CP 16, CP 17, DS 78, DS 79, DS 80, DS 81 (Sanders, Allen, 1985).

DISTRIBUTION: North and East Atlantic.

DEPTH RANGE: 2871–5867 m.

### Genus *Malletia* Des Moulins, 1832

Type species: *Malletia chilensis* Des Moulins, 1832.

### *Malletia johnsoni* Clarke, 1961

*Malletia johnsoni* Clarke, 1961: 370, pl. 2: 6; Knudsen, 1970: 168; Sanders, Allen, 1985: 205, figs 10–14; Salas, 1996: 45, figs 68–70; Allen, 2008: 127 ff; *Malletia estheriopsis* Barnard, 1963: 447, fig. 11b; Knudsen, 1970: 67, text-fig. 44A, pl. 6, figs. 11, 12; *Malletia obtusa* — Verrill, Bush, 1898: 874, pl. 97: 4; Clarke, 1962: 51; *Pseudomalletia johnsoni* — Warén, 1989b: 249.

LOCALITIES: “Sarsia”, St. S. 50; “Chain”, St. 316, 318; BIOGAS I, St. DS 11, DS 12; POLYGAS, St. DS 15, DS 18, DS 25, CV 09; BIOGAS II, St. DS 32; BIOGAS III, St. DS 35, DS 36, DS 37, DS 38; BIOGAS IV, St. DS 51, DS 52, DS 58, DS 61, DS 62, DS 64, CP 01; BIOGAS V, St. DS 70, CV 39, CP 07; BIOGAS VI, St. CP 08, CP 09, DS 71 (Sanders, Allen, 1985); INCAL, St. DS 01, DS 02, DS 05, DS 06, DS 07, DS 08, DS 09, DS 10 (Allen, 2008).

DISTRIBUTION: North and East Atlantic.

DEPTH RANGE: 1000–3000 m.

### *Malletia obtusa* (G.O. Sars, 1872)

*Yoldia obtusa* G.O. Sars, 1872: 23, pl. 3, figs 16–20; Sars, 1878: 41, pl. 19, figs 3a, b (non Gould, 1861);

*Malletia obtusa* — Jeffreys, 1879: 586; Locard, 1898: 331; Di Geronimo, Panetta, 1973: 95, pl. 3, fig. 3; Vatova, 1974: 110; Sanders, Allen, 1985: 232, figs 40, 41; Knudsen, 1970: 69, text-fig. 45, pl. 6, figs. 15, 16; Allen, 2008: 138 ff; *Pseudomalletia obtusa* — Warén, 1989b: 249, figs 15E–F; Janssen, 1989: 270; *Pseudomalletia pianii* Aartsen, Giannuzzi-Savelli, 1991: 4 (replacement name for *Y. obtusa* Sars); Giannuzzi-Savelli et al., 2001: 54, fig. 50.

LOCALITIES: “Porcupine” 1869, St. 19, 22, 28, 30 (Jeffreys, 1879); “Meteor” 17, St. B2 (Di Geronimo, Panetta, 1973); “Meteor” 17, St. B1, B2, D1 (Vatova, 1974); “Meteor” 5, St. 14, 15 (Janssen, 1989); “Challenger”, St. 6, 10 (Allen, 2008).

DISTRIBUTION: Norwegian Sea, Mediterranean.

DEPTH RANGE: 350–4072 m.

### *Malletia* sp.

*Malletia* sp. — Allen, 2008: 133 ff.

LOCALITIES: BIOGAS VI, St. DS 71, DS 73 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2194–2805 m.

## Family Neilonellidae

### Genus *Neilonella* Dall, 1881

Type species: *Leda (Neilonella) corpulenta* Dall, 1881.

### *Neilonella championi* (Clarke, 1961)

*Tindaria championi* Clarke, 1961: 372, pl. 2, figs 1, 4; *Pseudotindaria championi* — Sanders, Allen, 1977: 51, figs 41–43; Allen, 2008: 152.

LOCALITIES: “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 3116–5133 m.

### *Neilonella erebus* (Clarke, 1959)

*Tindaria erebus* Clarke, 1959: 236, fig. 1 (1); Allen, 2008: 154; *Pseudotindaria erebus* — Sanders, Allen, 1977: 43, figs 29–40; Warén, 1989a: 255, fig 19A–B.

LOCALITIES: BIOGAS VI, St. DS 79 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 2466–5202 m.

### *Neilonella latior* (Jeffreys, 1876)

*Leda pusio* var. *latior* Jeffreys, 1876b: 430; *Leda sericea* Jeffreys, 1876b: 432 partim; *Leda striolata* — Jeffreys, 1879: 578; Locard, 1898: 347 (non Brugnone); *Leda salicensis* — Locard, 1898: 349, pl. 14: 22–25 (non Seguenza); *Neilonella subovata* Verrill, Bush, 1897: 57, figs 7, 8, 22; Verrill, Bush, 1898: 878, pl. 80: 10, pl. 82: 3–4; *Tindaria (Neilonella) guineensis* Thiele in Jaekel, Thiele, 1931: 50, pl. 3: 70; *Neilonella guineensis* — Knudsen, 1970: 59, text-fig. 39, pl. 5: 3, pl. 6: 8–10; *Pseudoneilonella latior* — Laghi, 1986: 192, pl. 7: 7a–c; *Pseudoneilonella salicensis atlantica* Laghi, 1986: 192, pl. 6: 1–7; *Pseudoneilonella montanaroe* Laghi, 1986:

193 partim, pl. 9: 6; *Neilonella striolata* Warén, 1989b: 252, figs 3a, 16a–d; Salas, 1996: 45, figs 52–54; Giannuzzi-Savelli et al., 2001: 56, fig. 51; *Neilonella salicensis* — Allen, Sanders, 1996: 103, figs 2–8; *Austroindaria latior* — Di Geronimo, La Perna, 1997: 416; La Perna, 2003: 28.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876b); “Porcupine” 1869, St. 28 (Jeffreys, 1879, as *Leda pusio*); 1870, St. 17 (Jeffreys, 1879, as *striolata*); “Sarsia”, St. S50; “Chain”, St. 316; BIOGAS I, St. DS 11; POLYGAS, St. DS 25; BIOGAS II, St. DS 32; BIOGAS III, St. DS 38; BIOGAS IV, St. DS 52, DS 63; BIOGAS V, St. CP 07; BIOGAS VI, St. DS 77, DS 80, DS 82; INCAL, St. DS 01, DS 02, CP 01, DS 05, OS 01, WS 02, CP 10, WS 03; “Challenger”, St. 232 (Allen, Sanders, 1996).

DISTRIBUTION: Arctic Ocean, Atlantic, South-western Pacific.

DEPTH RANGE: 508–4829 m.

#### ***Neilonella whoii* Allen et Sanders, 1996**

*Neilonella whoii* Allen, Sanders, 1996: 108, figs 12–16.

LOCALITIES: “Chain”, St. 323, 326, 328, 330; POLYGAS, St. DS 20, DS 22, DS 23, DS 28; BIOGAS III, St. CV 23, DS 41, CV 27, CV 30, DS 47; BIOGAS IV, St. CV 34, DS 53, DS 54, DS 56, DS 60; BIOGAS V, St. DS 66; BIOGAS VI, St. DS 75, DS 76, CP 14, DS 78, DS 79, CP 18, DS 81, CP 19, DS 82; INCAL, St. OS 01, DS 11, CP 11, OS 02, OS 05, OS 06, DS 16, WS 09 (Allen, Sanders, 1996).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 2487–5223 m.

#### ***Neilonella* sp.**

*Pseudotindaria* sp. — Allen, 2008: 140.

LOCALITIES: “Chain”, St. 321 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2868 m.

### **Family Nucleonidae**

#### **Genus *Ledella* Verrill et Bush, 1898**

Type species: *Ledella bushae* Warén, 1978 = *Ledella ultima* (Smith, 1885).

#### ***Ledella aberrata* Allen et Sanders, 1996**

*Ledella aberrata* Allen, Sanders, 1996: 114, figs 20–23.

LOCALITIES: “Chain”, St. 330; POLYGAS, St. DS 23; BIOGAS II, St. DS 32; BIOGAS IV, St. DS 54; BIOGAS V, St. DS 68; BIOGAS VI, St. DS 78, DS 79, DS 80, DS 81; INCAL, St. CP 10, DS 11, WS 03, CP 11, OS 02, WS 10 (Allen, Sanders, 1996).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 2138–5223 m.

#### ***Ledella acinula* (Dall, 1890)**

*Malletia* (*Tindaria*) *acinula* Dall, 1890: 253, pl. 13: 4; *Tindaria acinula* — Verrill, Bush, 1898: 881; “*Tindaria*”

*acinula* — Sanders, Allen, 1977: 55, figs 44, 45; *Ledella acinula* — Allen, Sanders, 1996: 112, figs 17, 18.

LOCALITIES: “Chain”, St. 330; BIOGAS VI, St. DS 79 (Allen, Sanders, 1996).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 943–4632 m.

#### ***Ledella confinis* (Smith, 1885)**

*Leda confinis* Smith, 1885: 233, pl. 19: 5; Dautzenberg, Fischer, 1897: 205; *Ledella confinis* — Warén, 1978: 214, figs 3, 18–19.

LOCALITIES: “Princesse Alice” 1895, St. 117 (Dautzenberg, Fischer, 1897).

DISTRIBUTION: Central North Atlantic near the Azores.

DEPTH RANGE: 750–2102 m.

#### ***Ledella foresti* (Métivier, 1982)**

*Nuculana foresti* Métivier, 1982: 42, pl. 1: 4–6, 10–12.

LOCALITIES: BIACORES, St. 126 (Métivier, 1982).

DISTRIBUTION: Central North Atlantic near the Azores.

DEPTH RANGE: 3360 m.

#### ***Ledella galathea* Knudsen, 1970**

*Ledella galathea* Knudsen, 1970: 32, text-fig. 14, pl. 3: 2; Allen, Hannah, 1989: 151, figs 48–49.

LOCALITIES: BIOGAS VI, St. DS 78, DS 81; INCAL, St. WS 03 (Allen, Hannah, 1989).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 4279–4980 m.

#### ***Ledella messanensis* (Jeffreys, 1870)**

*Leda acuminata* Jeffreys, 1870: 69 (non Eichwald, 1830); *Leda messanensis* “Seguenza” Jeffreys, 1870: 69; Jeffreys, 1879: 576 partim; Dautzenberg, Fischer, 1897: 204; Locard, 1898: 343; Dautzenberg, Fischer, 1906: 79; *Leda* (*Junonia*) *messanensis* — Dautzenberg, 1927: 292; *Yoldiella acuminata* — Warén, 1978: 215, figs 1–2, 10–11; *Yoldiella messanensis* — Warén, 1989b: 239, figs 3E, 11A–B; Salas, 1996: 44, figs 31–33; Giannuzzi-Savelli et al., 2001: 60, fig. 60; *Ledella messanensis* — Knudsen, 1970: 164; Di Geronimo, La Perna, 1997: 408, pl. 6: 5–6; La Perna, 2003: 24, pl. 2: 6, 8–9 (non 7, = *nicotrae* Seguenza); *Nuculana* (*Ledella*) *pusio* — Laghi, 1986: 170, 182 partim, pl. 4: 1–6 (non Philippi); *Ledella acuminata* — Allen, Hannah, 1989: 153, figs 57–62; Allen, 2008: 141; *Yoldiella philippiana* — Ardovini, Cossignani, 1999: 86, fig. (figure interchanged with *messanensis*).

LOCALITIES: “Travailleur” 1881, St. 1, 5 (Locard, 1898); “Princesse Alice” 1895, St. 117 (Dautzenberg, Fischer, 1897); 1901, St. 1116 (Dautzenberg, Fischer, 1906); “Challenger”, St. 6 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 37–3720 m.

***Ledella pustulosa marshalli*****Allen et Hannah, 1989***Ledella pustulosa marshalli* — Allen, Hannah, 1989: 131, figs 18–21.

LOCALITIES: „Porcupine“ 1869, St. 31; POLYGAS, St. DS 20, DS 21, DS 28; BIOGAS III, St. DS 41; BIOGAS IV, St. DS 53, DS 55, DS 57, DS 58; BIOGAS V, St. DS 66, DS 67; BIOGAS VI, St. DS 73, DS 74, DS 76, CP 10, CP 13, CP 14; „Chain“, St. 321, 323, 326, 330; INCAL, St. CP 03, CP 04, DS 05, DS 06, DS 07, DS 08, CP 05, CP 06, CP 07, DS 09, CP 08, CP 09, DS 10, OS 01, OS 04, WS 07, DS 14, OS 06, DS 16, WS 09, WS 10, OS 08 (Allen, Hannah, 1989).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2466–4796 m.

***Ledella pustulosa pustulosa* (Jeffreys, 1876)***Leda pustulosa* Jeffreys, 1876b: 430; Jeffreys, 1879: 576; Locard, 1898: 345; *Nuculana pustulosa* — Clarke, 1962: 53; *Yoldiella* (?) *pustulosa* — Warén, 1989b: 244, figs 11E–F, 14C–D; *Ledella pustulosa* — Knudsen, 1970: 165; Allen, Hannah, 1989: 125, figs 1–8, 10–16 (non 17 = *Zealeda elegans* La Perma et al., 2004).

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876b); “Porcupine” 1869, St. 19, 20, 21, 28, 30, 31 (Jeffreys, 1879); BIOGAS I, St. DS 06, DS 07, DS 09, DS 11, DS 12, DS 13; BIOGAS II, St. DS 32; BIOGAS III, St. DS 35, DS 36, DS 37, DS 38, DS 50; BIOGAS IV, St. DS 51, DS 52, DS 62, DS 63, DS 64, CP 01, CP 02, KR 39; BIOGAS V, St. DS 70, CP 07; BIOGAS VI, St. DS 71, CP 08, CP 09; POLYGAS, St. DS 15, DS 18, DS 25, DS 26, CV 10; “Thalassa”, St. Z 453; INCAL, St. DS 01, KR 01, DS 02, CP 01, CP 02, DS 05, CP 08, CP 09, OS 01, WS 01, WS 02; “Chain”, St. 316, 318 (Allen, Hannah, 1989).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 586–4706 m.

***Ledella sublevis* Verrill et Bush, 1898***Ledella messanensis* var. *sublevis* Verrill, Bush, 1898: 856, pl. 81: 7; *Leda modesta* — Thiele in Thiele, Jaeckel, 1931: 44, pl. 2: 50; *Yoldiella sublevis* — Salas, 1996: 44, figs 34–36; *Ledella sublevis* — Warén, 1978: 214, figs 14, 15; Allen, Hannah, 1989: 139, figs 26–29; Richling, 2000: 17.

LOCALITIES: “Valorous”, St. 12 (Allen, Hannah, 1989); “Sarsia”, St. S50; “Chain”, St. 321, 323, 326, 330; BIOGAS III, St. DS 38, DS 41; BIOGAS IV, St. DS 57, DS 60, DS 63; CP 01; BIOGAS V, St. DS 66; BIOGAS VI, St. DS 73 (Allen, Hannah, 1989); BALGIM, St. CP 68 (Salas, 1996).

DISTRIBUTION: Arctic Ocean, North and Southwest Atlantic.

DEPTH RANGE: 2022–4680 m.

***Ledella ultima* (Smith, 1885)***Leda ultima* Smith, 1885: 324, text-fig; *Ledella messanensis* — Verrill, Bush, 1897: 54, figs 13, 18; Verrill,Bush, 1898: 856, pl. 81: 9 (non Jeffreys); *Ledella bushae* Warén, 1978: 213 (replacement name for *L. messanensis* sensu Verrill, Bush); *Ledella ultima* — Knudsen, 1970: 34, text-figs 17, 18A, pl. 2: 15, pl. 3: 4; Allen, Hannah, 1989: 155, figs 63–75.

LOCALITIES: POLYGAS, St. DS 23, DS 20; BIOGAS II, St. DS 30; BIOGAS III, St. DS 45, DS 46; BIOGAS IV, St. DS 53, DS 54, DS 55, DS 56; BIOGAS V, St. DS 66, DS 68, DS 69; BIOGAS VI, St. DS 75, DS 76, DS 77, DS 78, DS 79, DS 80, DS 81, DS 84, DS 85, CP 13, CP 14, CP 16, CP 17, CP 20, CP 21, CP 22; INCAL, St. CP 10, DS 11, WS 03, CP 11, OS 02, WS 04, WS 07, OS 05, DS 14, DS 15, WS 08, OS 06, DS 16, OS 07, KR 17, WS 09, WS 10, OS 08 (Allen, Hannah, 1989).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1330–5875 m.

***Ledella* sp.***Ledella* sp. — Allen, 2008: 155.

LOCALITIES: BIOGAS VI, St. DS 71, 73; POLYGAS, St. DS 23 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2194–4734 m.

**Genus *Saccella* Woodring, 1925**Type species: *Nucula commutata* Philippi, 1844.***Saccella commutata* (Philippi, 1844)***Nucula commutata* Philippi, 1844b: 101; *Leda fragilis* — Jeffreys, 1879: 575; Locard, 1898: 341; *Nuculana commutata* — Salas, 1996: 42, figs 49–51; Allen, Sanders, 1996: 123, figs 34–35; *Saccella commutata* — Giannuzzi-Savelli et al., 2001: 50, figs 36–41.

LOCALITIES: “Porcupine” 1870, St. 54 (Jeffreys, 1879); “Travailleur” 1882, St. 13 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 9–2760 m.

**Nuculanidae sp.**

Nuculanidae sp. — Allen, 2008: 140.

LOCALITIES: INCAL, St. DS 07 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2884 m.

**Family Phaseolidae****Genus *Lametila* Allen et Sanders, 1973**Type species: *Lametila abyssorum* Allen et Sanders, 1973.***Lametila abyssorum* Allen et Sanders, 1973***Lametila abyssorum* Allen, Sanders, 1973: 287, figs 28–35; Allen, 2008: 140.

LOCALITIES: “Chain”, St. 321 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 2496–3834 m.

**Family Siliculidae****Genus *Silicula* Jeffreys, 1879**

Type species: *Silicula fragilis* Jeffreys, 1879.

***Silicula filatovae* Allen et Sanders, 1973**

*Silicula filatovae* Allen, Sanders, 1973: 266, figs 3–11; Allen, 2008: 143 ff.

LOCALITIES: BIOGAS V, St. DS 66, DS 69; BIOGAS VI, St. DS 77; POLYGAS, St. DS 21, DS 28; INCAL, St. DS 14, DS 16; “Chain”, St. 326, 328, 330 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 3480–5042 m.

***Silicula fragilis* Jeffreys, 1879**

*Silicula fragilis* Jeffreys, 1879: 574, pl. 45: 6, 6a; Clarke, 1962: 54; Knudsen, 1970: 165; Allen, Sanders, 1973: 275, figs 1, 5, 12–17; Allen, 2008: 128 ff.

LOCALITIES: “Porcupine” 1869, St. 28 (Jeffreys, 1879); “Challenger”, St. 6, 10; BIOGAS I, St. DS 08; INCAL, St. DS 01, DS 08 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 1493–4402 m.

**Family Tindariidae****Genus *Tindaria* Bellardi, 1875**

Type species: *Tindaria arata* Bellardi, 1875.

***Tindaria callistiformis* Verrill et Bush, 1897**

*Tindaria callistiformis* Verrill, Bush, 1897a: 59, figs 10, 20, 21; Verrill, Bush, 1898: 881, pl. 78, fig. 1, pl. 80, figs 6, 7; Sanders, Allen, 1977: 24, figs 1–11, 27; Warén, 1989a: 256, fig. 18 A–B; Allen, 2008: 126 ff.

LOCALITIES: BIOGAS III, St. DS 38; BIOGAS IV, St. DS 52, DS 56; BIOGAS V, St. DS 66; BIOGAS VI, St. DS 78 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 3305–5042 m.

***Tindaria derjugini* Gorbunov, 1946**

*Tindaria derjugini* Gorbunov, 1946: 311, 319, pl. 2: 1a–d, pl. 3: 3, text-fig. 3; Clarke, 1963: pl. 1: 14, 15, 19; Bouchet, Warén, 1979: 212, figs 1, 25, 26; Knudsen, 1985: 98; Warén, 1989a: 130; Warén, 1989b: 256, figs 3B, 17A–B; Richling, 2000: 16, fig. 9; *Malletia abyssopolaris* Clarke, 1960: 7, pl. 1: 19–22; Bernard, 1979: 12, fig. 5.

LOCALITIES: “Sadko”, St. 6 (Gorbunov, 1946); NORBI, St. 11 (Bouchet, Warén, 1979); FRAM I Drift-Ice Expedition, St. 4, 15, 17, 18 (Knudsen, 1985); “Ymer”, St. MB9 (DE2) (Warén, 1989b).

DISTRIBUTION: Arctic Ocean, Norwegian Sea.

DEPTH RANGE: 1582–3500 m.

***Tindaria hessleri* Sanders et Allen, 1977**

*Tindaria hessleri* Sanders, Allen, 1977: 30, figs 12–16, 27; Allen, 2008: 153.

LOCALITIES: BIOGAS VI, St. DS 78 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1739–4706 m.

***Tindaria miniscula* Sanders et Allen, 1977**

*Tindaria miniscula* Sanders, Allen, 1977: 38, figs 23–28; Allen, 2008: 154.

LOCALITIES: BIOGAS VI, St. DS 79 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 3753–4715 m.

***Tindaria perrieri*****(Dautzenberg et Fischer, 1896)**

*Malletia perrieri* Dautzenberg, Fischer, 1896: 5; Dautzenberg, Fischer, 1897: 209, pl. 6: 15–16; Locard, 1898: 333, pl. 18: 20–24; Dautzenberg, 1927: 296, pl. 8: 19–20; La Perna, 2008: 159, figs 9a–c.

LOCALITIES: “Talisman” 1883, St. 16 (Locard, 1898).

DISTRIBUTION: Central North Atlantic near the Azores.

DEPTH RANGE: 1846–2190 m.

***Tindaria sericea* (Jeffreys, 1876)**

*Leda sericea* Jeffreys, 1876b: 432 partim; Jeffreys, 1879: 579, pl. 46: 1; Locard, 1898: 352; *Neilonella sericea* — Knudsen, 1970: 167; *Tindaria sericea* — Warén, 1989b: 256, figs 17C–D; Salas, 1996: 42, figs 25–27.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876b); “Porcupine” 1869, St. 19; 1870, St. 17 (Jeffreys, 1879).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1032–2686 m.

**Family Yoldiidae****Genus *Microgloma* Sanders et Allen, 1973**

Type species: *Microgloma yongei* Sanders et Allen, 1973.

***Microgloma tumidula* (Monterosato, 1880)**

*Silicula tumidula* Monterosato, 1880: 56; *Microgloma tumidula* — Salas, 1996: 38, figs 62–64; Ockelmann, Warén, 1998: 11, figs 4G–H, 6A–C, E–F, 7B, D, 8C–F, 10A–B; *Microgloma turnerae* Sanders, Allen, 1973: 250, figs 15–21; Allen, 2008: 127 ff.

LOCALITIES: “Chain”, St. 316, 318, 321, 330; “Challenger”, St. 10; INCAL, DS 01, DS 02, DS 06, DS 07, DS 09; BIOGAS VI, DS 79 (Allen, 2008).

DISTRIBUTION: Central and Northeast Atlantic, Mediterranean.

DEPTH RANGE: 200–4715 m.

***Microgloma yongei* Sanders et Allen, 1973**

*Microgloma yongei* Sanders et Allen, 1973: 247, figs 10–14, 21; Allen, 2008: 135 ff.

LOCALITIES: “Chain”, St. 316; BIOGAS V, St. DS 67; BIOGAS VI, St. 82, 85 (Allen, 2008).



DISTRIBUTION: Central and East Atlantic.  
DEPTH RANGE: 1964–4462 m.

***Microgloma* sp.**

*Microgloma* sp. — Allen, 2008: 135.  
LOCALITIES: “Chain”, St. 316 (Allen, 2008).  
DISTRIBUTION: Northeast Atlantic.  
DEPTH RANGE: 2493 m.

**Genus *Yoldia* Möller, 1842**

Type species: *Yoldia hyperborea* (Gould, 1841).

***Yoldia minima* Seguenza, 1877**

*Yoldia minima* Seguenza, 1877b: 1178, pl.5: 27, 27a–c; Clarke, 1962: 54; *Leda minima* — Jeffreys, 1879: 581; Locard, 1898: 355; “*Yoldia*” *minima* — Warén, 1989b: 257; Di Geronimo, La Perna, 1997: 412, pl. 7: 1–2, 10–12; La Perna, 2003: 24, pl. 3: 14–15.

LOCALITIES: “Porcupine” 1870, St.17 St. 51 (Jeffreys, 1879).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 200–2650 m.

**Genus *Yoldiella* Verrill et Bush, 1897**

Type species: *Yoldia lucida* Lovén, 1846.

***Yoldiella annenkovae* (Gorbulov, 1946)**

*Portlandia annenkovae* Gorbulov, 1946: 314, 320, pl. 3:1a–c; Clarke, 1963: pl. 1: 4, 8, 12; *Portlandia (Yoldiella) frigida* — Clarke, 1963: pl. 2: 6–8 (non Torell); *Yoldiella annenkovae* — Warén, 1989a: 130; Warén, 1989b: 241, figs 1B–D, 8A–B; Richling, 2000: 22, fig. 16; Killeen, Turner, 2009: 743, figs 9–10, 41.

LOCALITIES: “Sadko”, St. 6 (Gorbulov, 1946); “Ymer”, St. MB 10 (DE3) (Warén, 1989a).

DISTRIBUTION: Arctic Ocean, North Atlantic.  
DEPTH RANGE: 231–3344 m.

***Yoldiella biscayensis***

**Allen, Sanders et Hannah, 1995**

*Yoldiella biscayensis* Allen et al., 1995: 30, figs 39, 40, 41; Killeen, Turner, 2009: 760, fig. 28.

LOCALITIES: POLYGAS, St. DS 20, DS 21, DS 22, DS 23; “Chain”, St. 321, 323, 326, 328, 330; BIOGAS II, St. DS 31; BIOGAS III, St. DS 41, DS 44, DS 45, DS 48; BIOGAS IV, St. DS 53, DS 54, DS 55, DS 56, DS 59, DS 60, KR 35; BIOGAS V, St. DS 66, DS 67, DS 68, DS 69, DS 70; BIOGAS VI, St. DS 72, DS 74, DS 75, DS 76, DS 77, DS 78, DS 79, DS 80, DS 81, DS 82, DS 85, CP 13, CP 16, CP 17, CP 19, CP 22; INCAL, St. CP 11, OS 02, WS 03, DS 14, DS 15, DS 16, OS 05, OS 06, OS 7, OS 08, WS 07, WS 08, WS 09, WS 10, KR 07 (Allen et al., 1995).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2150–4829 m.

***Yoldiella curta* (Verrill et Bush, 1898)**

*Phaseolus ovatus* — Verrill, 1884: 230 (non Seguenza); *Yoldia jeffreysi* Verrill, 1884: 229 (non Hidalgo); *Yoldia curta* Verrill, Bush, 1898: 868, pl. 97: 8; Warén, 1989b: 244; *Yoldiella minuscula* Verrill, Bush, 1898: 870, pl. 97: 2, 7; Warén, 1989b: 244, figs 14: A, B; *Yoldiella curta* — Clarke, 1962: 54; Knudsen, 1970: 166; Allen et al., 1995: 47, figs 71–73, 75, 76; Allen, 2008: 128; Killeen, Turner, 2009: 744, figs 11–12, 42.

LOCALITIES: BIOGAS I, St. DS 06, DS 07, DS 12, DS 13; “Chain”, St. 316; POLYGAS, St. DS 25, DS 26, CV 10; BIOGAS II, St. DS 32; BIOGAS III, St. DS 36, DS 38; BIOGAS IV, St. DS 52, DS 61, DS 62, DS 63, DS 64; BIOGAS V, St. CP 07; BIOGAS VI, St. DS 71, CP 08, CP 09; INCAL, St. CP 01, CP 02, DS 01, DS 02, DS 05, DS 06, OS 01 (Allen et al., 1995; Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 587–2634 m.

***Yoldiella dissimilis* Verrill et Bush, 1898**

*Leda sericea* Jeffreys, 1876b: 432 partim; *Yoldiella dissimilis* Verrill, Bush, 1898: 872, pl. 78: 8; pl. 82: 7; Knudsen, 1970: 166; Warén, 1989b: 257, figs 14E–H; Allen, 2008: 141.

LOCALITIES: “Porcupine” 1869, St. 19a, 21, 30 (Warén, 1989b); “Challenger”, St.6 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1347–3100 m.

***Yoldiella ella* Allen, Sanders et Hannah, 1995**

*Yoldiella ella* Allen et al., 1995: 69, figs 113, 114, 117.

LOCALITIES: “Chain”, St. 323, 326, 328, 330; POLYGAS, St. DS 20, DS 21, DS 22, DS 23; BIOGAS III, St. DS 41, DS 42; BIOGAS IV, St. DS 55, DS 56, DS 60; BIOGAS V, St. DS 66, DS 67, DS 68; BIOGAS VI, St. DS 75, DS 76, DS 77, DS 78, DS 79, DS 80, CP 13; INCAL, St. OS 02, OS 05, OS 06, OS 07, OS 08, WS 03, WS 07, WS 08, WS 09, WS 10, DS 11, DS 14, DS 15, DS 16, CP 11 (Allen et al., 1995).

DISTRIBUTION: North and East Atlantic (Allen et al., 1995).

DEPTH RANGE: 2862–4829 m.

***Yoldiella expansa* (Jeffreys, 1876)**

*Leda expansa* Jeffreys, 1876b: 431; Jeffreys, 1879: 580, pl. 46: 4; Locard, 1898: 354; *Leda lata* — Jeffreys, 1876c: 431 partim; *Nuculana expansa* — Clarke, 1962: 52; *Yoldiella expansa* — Verrill, Bush, 1898: 871, pl. 97: 3; Knudsen, 1970: 166; Warén, 1989b: 237, fig. 9A.

LOCALITIES: “Porcupine” 1869, St. 30; 1870, St. 17 (Jeffreys, 1879); “Valorous”, St. 12 (Jeffreys, 1876b).

DISTRIBUTION: Northeast Atlantic (Locard, 1898).

DEPTH RANGE: 564–2639 m.

***Yoldiella fabula*****Allen, Sanders et Hannah, 1995**

*Leda sericea* Jeffreys, 1879: 579 partim; *Yoldiella fabula* Allen et al., 1995: 72, figs 119, 120, 122, 123; Killeen, Turner, 2009: 761, figs 29, 49.

LOCALITIES: "Porcupine" 1869, St. 19, 21; "Chain", St. 323, 330; POLYGAS, St. DS 21, DS 23, DS 28, CV 13; BIOGAS II, St. DS 30; BIOGAS III, St. DS 41, DS 50; BIOGAS IV, St. DS 55, DS 56, DS 57; BIOGAS V, St. DS 66, DS 67; BIOGAS VI, St. DS 76, DS 84; INCAL, St. WS 07, WS 08, OS 06, OS 07, DS 05, DS 09, DS 14, DS 16 (Allen et al., 1995).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 2503–5223 m.

***Yoldiella frami* Knudsen, 1985**

*Yoldiella frami* Knudsen, 1985: 99, fig.1; Warén, 1989b: 247, figs 15A–B; Richling, 2000: 22, figs 17–21.

LOCALITIES: "FRAM I Drift-Ice Expedition", St. 4, 12, 15, 18 (Knudsen, 1985).

DISTRIBUTION: Arctic Ocean.

DEPTH RANGE: 2300–3965 m.

***Yoldiella frigida* (Torell, 1859)**

*Leda frigida* Torell, 1859: 148; Jeffreys, 1879: 576; *Yoldiella frigida* — Warén, 1989b: 239, figs 7E–F, 10G–H; Killeen, Turner, 2009: 762, figs 30–31.

LOCALITIES: "Porcupine" 1869, St. 28, 31 (Jeffreys, 1879).

DISTRIBUTION: Arctic Ocean, North Atlantic.

DEPTH RANGE: 10–2475 m

***Yoldiella incala*****Allen, Sanders et Hannah, 1995**

*Yoldiella obesa incala* Allen et al., 1995: 19, fig. 11; *Yoldiella incala* — Killeen, Turner, 2009: 762, figs 32–33, 50.

LOCALITIES: POLYGAS, St. DS 25, DS 26; BIOGAS IV, St. DS 51; BIOGAS V, St. CP 07; BIOGAS VI, St. DS 80; INCAL, St. DS 01, DS 02, CP 01, CP 02 (Allen et al., 1995).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1913–2170 m.

***Yoldiella insculpta* (Jeffreys, 1879)**

*Leda insculpta* Jeffreys, 1879: 580, pl. 46: 5; Dautzenberg, Fischer, 1897: 204; Locard, 1898: 355; *Yoldiella insculpta* — Allen et al., 1995: 60, figs 95–97, 99, 100; Warén, 1989b: 233, figs 9D–E; Salas, 1996: 44, figs 46–48; Allen, 2008: 129 ff; Killeen, Turner, 2009: 765, figs 34–35.

LOCALITIES: "Talisman" 1883, Azores (Locard, 1898 teste Jeffreys); BIOGAS I, St. DS 08, DS 11, DS 13; POLYGAS, St. DS 15, DS 16, DS 17, DS 18; BIOGAS II, St. DS 31, DS 32; BIOGAS III, St. DS 35, DS 36, DS 37, DS 38; BIOGAS IV, St. DS 61, DS 62, DS 63, DS 64, CP 01; BIOGAS V, St. DS 65; BIOGAS VI, St. DS 71, CP 08, CP 09 (Allen et

al. 1995; Allen, 2008); BALGIM, St. CP 68 (Salas, 1996).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1354–4222 m.

***Yoldiella jeffreysi* (Hidalgo, 1877)**

*Leda lata* Jeffreys, 1876b: 431 partim (non *Nucula lata* Hinds, 1843); *Leda jeffreysi* Hidalgo, 1877: 396 (replacement name for *L. lata* Jeffreys); Jeffreys, 1879: 579, pl. 46: 2; Smith, 1885: 234; Dautzenberg, Fischer, 1897: 204; Locard, 1898: 353; *Leda (Yoldiella) jeffreysi* — Dautzenberg, 1927: 294; *Yoldiella jeffreysi* — Verrill, Bush, 1898: 866, pl. 81: 5, pl. 83: 3; Allen et al., 1995: 63, figs 101, 102, 104, 106–108; Salas, 1996: 44, figs 43–45; Allen, 2008: 141; Killeen, Turner, 2009: 746, figs 13–14, 43.

LOCALITIES: "Valorous", St. 12, 16 (Jeffreys, 1876b); "Porcupine" 1869, St. 20, 30, 31; 1870, St. 17 (Jeffreys, 1879); "Travailleur" 1881, St. 1, 3 (Locard, 1898); "Princesse Alice" 1895, St. 624 (Dautzenberg, 1927); "Chain", St. 316, 318, 321, 323; POLYGAS, St. DS 23, DS 25; BIOGAS II, St. DS 31; BIOGAS III, St. DS 37, DS 41; BIOGAS IV, St. DS 51, DS 52, DS 53, DS 54, DS 58, DS 62, DS 63, DS 64, CV 38; BIOGAS V, St. DS 68; BIOGAS VI, St. DS 71, DS 74, DS 78, DS 79, CP 10; INCAL, St. DS 01, DS 02, CP 01, CP 02, CP 03, CP 04, DS 05, DS 07, DS 08, CP 05, CP 06, CP 07, DS 09, CP 08, DS 10, OS 01, WS 01, WS 02, CP 10, DS 11, WS 03, CP 11, OS 02, DS 14, DS 16 (Allen et al., 1995); "Challenger", St. 6 (Allen, 2008)

DISTRIBUTION: North and East Atlantic, Mediterranean.

DEPTH RANGE: 2040–4862 m.

***Yoldiella lenticula* (Möller, 1842)**

*Nucula lenticula* Möller, 1842: 17; *Yoldia abyssicola* Torell, 1859: 149; *Leda lenticula* — Locard, 1898: 350; *Portlandia lenticula* — Sars, 1878: 39, pl. 4: 10a, b; Ockelmann, 1958: 30, pl. 1: 13; Allen et al., 1995: 76, figs 126, 127; Allen, 2008: 132; *Yoldiella lenticula* — Dautzenberg, Fischer, 1912: 406; Scarlato, 1981: 209, fig. 113; Warén, 1989b: 239, figs 8C–D, 10E–F; Richling, 2000: 27, fig. 29; Killeen, Turner, 2009: 766, fig. 36.

LOCALITIES: BIOGAS I, St. DS 13; BIOGAS III, St. DS 37; BIOGAS IV, St. CP 01 (Allen et al., 1995; Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 10–2245 m.

***Yoldiella lucida* (Lovén, 1846)**

*Yoldia lucida* Lovén, 1846: 34; Sars, 1878: 37, pl. 4: 8a–b; Clarke, 1962: 54; Soot-Ryen, 1966: 4; *Leda lucida* vars. *declivis* and *truncata* Jeffreys, 1879: 578; Locard, 1898: 351; *Yoldiella iris* Verrill, Bush, 1898: 863, pl. 80: 1,2, pl. 82: 11; *Yoldiella subangulata* Verrill, Bush, 1898: 865, pl. 77: 3, pl. 79: 6; *Portlandia lucida* — Ockelmann, 1958: 29; *Yoldiella lucida* — Warén, 1989b: 227, figs 4G, 5A–B, 6A–D; Allen et al., 1995: 13, figs 1–7; Ardochini, Cossignani, 1999: 86, fig.; Giannuzzi-Savelli et al., 2001:

58, figs 56–57; Allen, 2008: 141; Killeen, Turner, 2009: 748, figs 15–16, 44.

LOCALITIES: “Porcupine” 1869, St. 19, 22, 28; “Porcupine” 1870, St. 17 (Jeffreys, 1879); “Challenger”, St. 6 (Allen, 2008).

DISTRIBUTION: Arctic Ocean, North Atlantic, Mediterranean.

DEPTH RANGE: 30–2900 m.

### ***Yoldiella philippiana* (Nyst, 1845)**

*Nucula tenuis* Philippi, 1836: 65, pl. 5: 9 (non Montagu, 1808); *Nucula philippiana* Nyst, 1845: 224 (replacement name for *N. tenuis* Philippi, 1836); *Leda tenuis* — Jeffreys, 1879: 577; Locard, 1898: 346; Sturany, 1896: 18; *Yoldiella lenticula tomlini* Winckworth, 1932: 239, 251; *Yoldiella frigida mediterranea* Nordsieck, 1974: 14, fig. 31; *Yoldiella tenuis* — Di Geronimo, 1974: 154, pl. 3: 3–5; *Yoldiella philippiana* — Warén, 1989b: 237, figs 8G–H, 10C–D; Salas, 1996: 44, figs 37–39; Giannuzzi-Savelli et al., 2001: 58, fig. 55; *Yoldiella messanensis* — Ardovoni, Cossignani, 1999: 86, fig. (figure interchanged with *philippiana*); Killeen, Turner, 2009: 754, figs 21–22.

LOCALITIES: “Porcupine” 1869, St. 17 (Jeffreys, 1879); “Ruth Ann”, St. 7 (Di Geronimo, 1974).

DISTRIBUTION: Northeast Atlantic, Norwegian Sea, Mediterranean.

DEPTH RANGE: 25–2664 m.

### ***Yoldiella semistriata* (Jeffreys, 1879)**

*Leda pusio* var. *semistriata* Jeffreys, 1879: 579; *Leda pusio* — Locard, 1898: 348, pl. 14: 19–21 (non Philippi); *Portlandia (Yoldiella) semistriata* — Laghi, 1986: 185, pl. 7: 1–2, 5–6; *Yoldiella semistriata* — Warén, 1989b: 252, figs 9B–C; Di Geronimo, La Perna, 1997: 416.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1879).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 470–2003 m.

### ***Yoldiella subcircularis* (Odhner, 1960)**

*Portlandia (Yoldiella) subcircularis* Odhner, 1960: 369, pl. 1: 1; *Yoldiella subcircularis* — Allen et al., 1995: 54, figs 84, 85, 87, 88.

LOCALITIES: “Chain”, St. 330; POLYGAS, St. DS 20, DS 21, DS 22; BIOGAS IV, St. DS 54, DS 55; BIOGAS V, St. DS 68; BIOGAS VI, St. DS 75, DS 76, DS 77, DS 78, DS 79, DS 80, DS 81; INCAL, St. OS 02, OS 05, OS 06, OS 07, OS 08, DS 11, CP 11, WS 03, WS 07, DS 15, WS 08, WS 09, WS 10 (Allen et al., 1995).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 587–2634 m.

### ***Yoldiella thaerella* Killeen et Turner, 2009**

*Yoldiella nana* — Warén, 1989b: 227 partim; *Yoldiella inconspicua inconspicua* — Allen et al., 1995: 41, figs 61, 63 (non Verrill, Bush 1898); *Yoldiella thaerella* Killeen, Turner, 2009: 769, figs 39–40, 52.

LOCALITIES: “Sarsia”, St. S 50; “Chain”, St. 316, 318, 323, 326, 330; POLYGAS, St. DS 20, DS 21, DS 22, DS 28; “Challenger”, St. 10; BIOGAS III, St. DS 41; BIOGAS IV, St. DS 55; BIOGAS V, St. DS 66, DS 67; VI, St. DS 71, DS 75, DS 76, CP 13, DS 77, DS 82; INCAL, St. DS 01, DS 02, CO 03, CO 04, DS 05, DS 06, DS 07, DS 08, CP 05, CP 06, KR 06, KR 07, CP 07, DS 09, DS 10, CP 08, OS 01, WS 01, WS 02, CP 10, WS 03, WS 07, DS 14, OS 06, DS 16, OS 07, OS 08 (Allen et al., 1995); RSS “Challenger”, St. ES 137 (Killeen, Turner, 2009).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1102–4829 m.

### ***Yoldiella valorousae* Killeen et Turner, 2009**

*Leda lata* — Jeffreys, 1876b: 431 partim (non *Nucula lata* Hinds, 1843); *Yoldiella lata* — Allen et al., 1995: 32, figs 44, 45, 47–49; Allen, 2008: 128 ff.; *Yoldiella valorousae* Killeen, Turner, 2009: 748, 757, figs 25–26, 48 (replacement name for *Yoldiella lata* Jeffreys sensu Allen et al., 1995).

REMARKS: Allen et al. (1995) pointed out that *Leda lata* Jeffreys consisted of two different taxa. They fixed *L. jeffreysi* Hidalgo as well as “*lata*” by selecting lectotypes, not taking into account that *lata* was renamed *jeffreysi* because of being a primary homonym, and thus continued using the preoccupied name. Therefore the taxon “*lata*” sensu Allen et al., 1995 was in need of a new name.

LOCALITIES: BIOGAS I, St. DS 06, DS 07, DS 08, DS 11, DS 12, DS 13; “Chain”, St. 316; POLYGAS, St. DS 15, DS 16, DS 18, DS 25, DS 26; CV 10; BIOGAS II, St. DS 32; BIOGAS III, St. DS 35, DS 36, DS 37, DS 38, DS 50; BIOGAS IV, St. DS 51, DS 52, DS 61, DS 62, DS 64, CP 01; BIOGAS V, St. DS 70, CP 07; BIOGAS VI, St. DS 71, DS 72, CP 08, CP 09; INCAL, St. CP 01, CP 02, CP 08, OS 01, DS 01, DS 02, DS 05, DS 06, WS 01, WS 02 (Allen et al., 1995; Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1491–3220 m.

### ***Yoldiella wareni* La Perna, 2004**

*Yoldiella (?) micrometrica* — Di Geronimo, Bellagamba, 1986: pl. 3: 6–7 (non Seguenza, 1877); Janssen, 1989: 268; *Yoldiella wareni* La Perna, 2004: 1049, figs 3a–h.

LOCALITIES: “Meteor” 5, St. 15 (Janssen, 1989).

DISTRIBUTION: Mediterranean.

DEPTH RANGE: 500–2069 m.

### ***Yoldiella* sp.**

*Yoldiella* sp. — Allen, 2008: 136 ff.

LOCALITIES: INCAL, St. DS 06, DS 16 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2494–4268 m.

## Family Mytilidae

### Genus *Dacrydium* Torell, 1859

Type species: *Mytilus vitrea* Möller, 1842.

#### *Dacrydium abyssorum* Allen, 1998

*Dacrydium abyssorum* Allen, 1998: 11, figs 16–19.

LOCALITIES: BIACORES, St. 245; POLYGAS, St. DS 20, DS 21, DS 22, DS 23, DS 26, CV 13; BIOGAS II, DS 30; BIOGAS III, DS 42, DS 44, DS 45, DS 46, DS 48; BIOGAS IV, St. DS 54, DS 55, DS 56, KR 31, KR 35; BIOGAS V, St. DS 67, DS 68, DS 69, CP 07; BIOGAS VI, St. DS 75, DS 76, CP 13, CP 14, KR 60, KR 64, DS 77, DS 78, CP 16, DS 79, CP 17, CP 18, DS 80, DS 81, CP 21, INCAL, OS 06, OS 07, OS 08, WS 09, WS 10, DS 11 (Allen, 1998).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 1913–5280 m.

#### *Dacrydium balgimi* Salas et Gofas, 1997

*Dacrydium* sp. — Salas, 1996: 53, figs 97–99; *Dacrydium balgimi* Salas, Gofas, 1997: 275, figs 52–57.

LOCALITIES: BALGIM, St. CP 68 (Salas, Gofas, 1997).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 2035 m.

#### *Dacrydium ockelmanni*

#### Mattson et Warén, 1977

*Dacrydium ockelmanni* Mattson, Warén, 1977: 2, figs 4–6, 10–13; Ockelmann, 1983: 112; Waren, 1991: 114, figs 40A–C; Salas, Gofas, 1997: 264, figs 7–14; Allen, 1998: 8, 34, figs 8–15.

LOCALITIES: “Discovery”, St. 6701; “Chal-lenger”, St. E 80–73; BIOGAS I, St. DS 11; POLY-GAS, St. DS 15, DS 17, DS 18, DS 25, DS 31; BIOGAS II, St. DS 32; BIOGAS III, St. DS 36, DS 37, DS 38, DS 50; BIOGAS IV, St. CP 01, DS 52, DS 61, DS 62, DS 63, DS 64; BIOGAS VI, St. CP 08, CP 09, DS 71; INCAL, St. DS 01, DS 02, CP 08; “Chain”, St. 318, 321 (Allen, 1998).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 100–3100 m.

#### *Dacrydium sandersi* Allen, 1998

*Dacrydium sandersi* Allen, 1998: 3, figs 1–3.

LOCALITIES: BIOGAS II, St. DS 31; BIOGAS III, St. DS 41; BIOGAS IV, St. DS 58, DS 59, CV 38; BIOGAS VI, St. DS 74; BIACORES, St. 126 (Allen, 1998).

DISTRIBUTION: North and West Atlantic.

DEPTH RANGE: 587–3783 m.

#### *Dacrydium vitreum* (Möller, 1842)

*Mytilus vitrea* “Holböll” Möller, 1842: 92; *Dacrydium vitreum* — Jeffreys, 1876b: 429; Jeffreys, 1879: 569; Locard, 1898: 364 partim; Friele, Grieg, 1901: 24; Dautzenberg, 1927: 275; Mattson, Warén, 1977: 2, figs 1–2, 7; Salas, Gofas, 1997: 263, figs 2–6; Allen, 1998: 5, 35, figs 4–7.

REMARKS: Most records in older literature concerning the West European Basin and southwards probably do not refer to *vitreum*, but to other species like *abyssorum*, *ockelmanni* or *wareni*.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876b); “Porcupine” 1869, St. 37, 38; 1870: St. 17 (Jeffreys, 1879); “Talisman” 1883, St. “134” = 147 (Locard, 1898); “Princesse Alice” 1895, St. 624 (Dautzenberg, 1927); “Vöringen”, St. 40 (Friele, Grieg, 1901).

DISTRIBUTION: Arctic Ocean, North Atlantic.

DEPTH RANGE: 40–4060 m.

#### *Dacrydium wareni* Salas et Gofas, 1997

*Dacrydium vitreum* — Locard, 1898: 364 partim (non Möller); *Dacrydium wareni* Salas, Gofas, 1997: 271, figs 36–43; Allen, 1998: 13, figs 20–25; *Dacrydium* cf. *hyalinum* — Salas, 1996: 53, figs 94–96.

LOCALITIES: “Travailleur” 1881, St. 1 (Locard, 1898; Salas, Gofas, 1997); BIOGAS IV, St. DS 51 (Allen, 1998).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 395–2018 m.

#### *Dacrydium* sp.

*Dacrydium* sp. — Allen, 2008: 138.

LOCALITIES: INCAL, St. DS 10 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2719 m.

### Genus *Idas* Jeffreys, 1876

Type species: *Idas argenteus* Jeffreys, 1876.

#### *Idas argenteus* Jeffreys, 1876

*Idas argenteus* Jeffreys, 1876b: 428; Jeffreys, 1879: 570, pl. 45: 3; Jensen, 1912: 56, pl. 3: 3a–e; Warén, 1980: 42, pl. 7: 11–12; Warén, 1980: 116, fig. 41E; Salas, 1996: 53; *Idas argenteus* var. *lamellosa* Verrill, 1882: 579.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876b); BALGIM, St. CP 69 (Salas, 1996).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 150–2600 m.

#### *Idas modiolaeformis* (Sturany, 1896)

*Myrina modiolaeformis* Sturany, 1896: 20, pl. 2: 34–38; Warén, 1980: 116, figs 41A–C; *Idas modiolaeformis* — Giannuzzi-Savelli et al., 2001: 130, fig. 234.

LOCALITIES: “Pola” 1891, St. 82 (Sturany, 1896).

DISTRIBUTION: Mediterranean.

DEPTH RANGE: 2420 m.

### Genus *Modiolus* Lamarck, 1799

Type species: *Mytilus modiolus* Linnaeus, 1758.

#### *Modiolus* sp.

*Modiolus* sp. — Allen, 2008: 127.

LOCALITIES: INCAL, St. DS 02 (Allen, 2008).  
DISTRIBUTION: Northeast Atlantic.  
DEPTH RANGE: 2081 m.

### **Mytilidae sp.**

Mytilidae sp. 330 — Allen, 2008: 152.  
LOCALITIES: “Chain”, St. 330 (Allen, 2008).  
DISTRIBUTION: Northeast Atlantic.  
DEPTH RANGE: 4632 m.

## **Family Arcidae**

### **Genus *Asperarca* Sacco, 1898**

Type species: *Arca nodulosa* Müller, 1776.

#### ***Asperarca nodulosa* (Müller, 1776)**

*Arca nodulosa* Müller, 1776: 247; *Arca scabra* Poli, 1795: 145, pl. 25: 22; *Arca aspera* Philippi, 1844a: 43, pl. 15: 1; *Arca nodulosa* — Sars, 1878: 42, figs 3a–c; Jeffreys, 1879: 570; Locard, 1898: 316; *Bentharca nodulosa* — Oliver, Allen, 1980a: 64, figs 18–21; *Barbatia scabra* — Ardovini, Cossignani, 1999: 87, fig.; *Asperarca nodulosa* — La Perna, 1998: 15, pl. 2: 1–4, pl. 3: 5; Giannuzzi-Savelli et al., 2001: 70, figs 82–86.

LOCALITIES: “Travailleur” 1881, St. 1, 3; “Talisman” 1883, St. “133” = 146 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 20–4134 m.

#### **Genus *Bathyarca* Kobelt, 1891**

Type species: *Arca pectunculoides* Scacchi, 1835.

#### ***Bathyarca frielei* (Jeffreys in Friele, 1877)**

*Arca frielei* Jeffreys in Friele, 1877: 2; Jeffreys in Friele, 1879: 266; Jeffreys, 1879: 45, pl. 45: 4, 4a; Locard, 1898: 320; Friele, Grieg, 1901: 20; *Bathyarca frielei* — Ockelmann, 1958: 42; Bouchet, Warén, 1979: 215, figs 29–30; Warén, 1980: 42, pl. 7: 7–8; Knudsen, 1985: 101; Richling, 2000: 39.

LOCALITIES: “Travailleur” 1881, St. 18 (Locard, 1898); Norwegian North-Atlantic Expedition, St. 40, 51, 53, 295, 303, 353 (Friele, Grieg, 1901); NORBI, St. 1, 2, 3, 5, 10, 11 (Bouchet, Warén, 1979); FRAM I Drift-Ice Expedition, St. 18 (Knudsen, 1985).

DISTRIBUTION: Arctic Ocean, Norwegian Sea, Mediterranean.

DEPTH RANGE: 18–3670 m.

#### ***Bathyarca glacialis* (Gray, 1824)**

*Arca glacialis* Gray, 1824: 244; Sars, 1878: 43, pl. 4: 1A–G; Jeffreys, 1879: 572; *Bathyarca glacialis* — Di Geronimo, Panetta, 1973: 96, pl. 3: 4; Oliver, Allen, 1980: 47, figs 1–5, 17; Richling, 2000: 38, fig. 40; Giannuzzi-Savelli et al., 2001: 80, fig. 102.

LOCALITIES: This species is recorded by Clarke (1962) and Oliver, Allen (1980) with a depth range exceeding 2000 m. However, for the European

region there is no precise data for stations deeper than 2000 m

DISTRIBUTION: Arctic Ocean, North Atlantic, Mediterranean Sea (Oliver, Allen, 1980).

DEPTH RANGE: 6–4170 m (Clarke, 1962).

#### ***Bathyarca inaequisculpta* (Smith, 1885)**

*Arca* (*Scapharca* ?) *inaequisculpta* Smith, 1885: 267, pl. 17: 8a–d; *Bathyarca abyssorum* Verrill, Bush, 1898: 843, fig. 9; Clarke, 1962: 55; *Bathyarca dakarensis* Locard, 1898: 321, pl. 13: 25–28; “*Arca*” *dakarensis* — Clarke, 1962: 55; *Bathyarca inaequisculpta* — Clarke, 1962: 56; Oliver, Allen, 1980: 58, figs 12, 13, 17; Allen, 2008: 136 ff; *Arca orbiculata* — Knudsen, 1970: 76 partim (non Dall).

LOCALITIES: INCAL, St. DS 06, DS 07, DS 09, DS 14, DS 16 (Allen, 2008); BIOGAS III, St. DS 44; BIOGAS IV, St. DS 53; BIOGAS V, St. DS 68; BIOGAS VI, St. CP 15, DS 79, DS 82; “Chain”, St. 323, 330 (Oliver, Allen, 1980; Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 1964–5175 m (Oliver, Allen, 1980).

#### ***Bathyarca pectunculoides* (Scacchi, 1835)**

*Arca pectunculoides* Scacchi, 1835: 82, pl. 1: 12; Sars, 1878: 43, figs 2a–c; Jeffreys, 1879: 572; Locard, 1898: 318; Tebble, 1966: 32, text-fig. 16; Knudsen, 1970: 168; *Arca pectunculoides* var. *septentrionalis* Jeffreys, 1879: 573; *Bathyarca pectunculoides* — Dautzenberg, 1927: 280; Oliver, Allen, 1980: 51, figs 6, 17; Salas, 1996: 46; Giannuzzi-Savelli et al., 2001: 80, fig. 103; *Bathyarca grenophia* — Ardovini, Cossignani, 1999: 87, fig. (non Risso, 1826).

LOCALITIES: “Porcupine” 1869, St. 17; 1870, St. 17 (Jeffreys, 1879); “Travailleur” 1881, St. 1, 3 (Locard, 1898).

DISTRIBUTION: Arctic Ocean, North and Southwest Atlantic, Mediterranean.

DEPTH RANGE: 40–3310 m (Oliver, Allen, 1980).

#### **Genus *Bentharca* Thiele, 1931**

Type species: *Macrodon asperula* Dall, 1881.

#### ***Bentharca asperula* (Dall, 1881)**

*Macrodon asperula* Dall, 1881: 120; Dall, 1886: 244, pl. 8: 4; *Arca profundicola* Verrill, Smith, 1885: 439; Verrill, Bush, 1898: 844, pl. 78: 2; *Arca* (*Barbatia*) *pteroessa* Smith, 1885: 262, pl. 17: 4; *Arca* (*Bathyarca*) *profundicola* — Dautzenberg, Fischer, 1897: 201; Dautzenberg, 1927: 282; *Arca* (*Acar*) *profundicola* — Thiele in Thiele, Jaekel, 1931: 20; *Acar* (*Bentharca*) *asperula* — Thiele, 1935: 793; *Acar asperula* — Knudsen, 1967: 258, figs 9–12; Knudsen, 1970: 73, text-fig. 46, pl. 7: 4–6; pl. 8: 1–10; *Bentharca asperula* — Oliver, Allen, 1980: 68, figs 22–24; Salas, 1996: 46; Allen, 2008: 152; *Bentharca profundicola* — Soot-Ryen, 1966: 6, fig. 4.

LOCALITIES: “Princesse Alice”, 1895, St. 536, St. 31, St. 117 (624); 1896, St. 20 (650), 22 (652),

119 (749) (Dautzenberg, Fischer, 1897; Dautzenberg, 1927); “Michael Sars”, St. 53 (Soot-Ryen, 1966); BALGIM, St. CP 66, CP 68, CP 69 (Salas, 1996); “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Atlantic, Pacific and Indian Oceans (Oliver, Allen, 1980).

DEPTH RANGE: 430–5007 m (Knudsen, 1970).

### Family Limopsidae

#### Genus *Limopsis* Sassi, 1827

Type species: *Arca aurita* Brocchi, 1814.

#### *Limopsis aurita* (Brocchi, 1814)

*Arca aurita* Brocchi, 1814: 485, pl. 11: 9; *Limopsis aurita* — Locard, 1898: 324, pl. 15: 5–10; Salas, 1996: 47, figs 71–73; Giannuzzi-Savelli et al., 2001: 90, figs 121–122.

LOCALITIES: “Travailleur” 1881, St. 1; “Talisman” 1883, St. 16, “41” = 45, “118” = 126 (Locard, 1898).

DISTRIBUTION: North Atlantic, Mediterranean (Locard, 1898).

DEPTH RANGE: 37–3175 m.

#### *Limopsis cristata* Jeffreys, 1876

*Limopsis cristata* Jeffreys, 1876b: 434; Jeffreys, 1879: 585, pl. 46: 10; Locard, 1898: 330; Salas, 1996: 48, figs 78–81; Allen, 2008: 138.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1879); “Travailleur” 1881, St. 1 (Locard, 1898); INCAL, DS 10 (Allen, 2008).

DISTRIBUTION: Northeast and East Atlantic.

DEPTH RANGE: 348–2719 m.

#### *Limopsis galathea* Knudsen, 1970

*Limopsis cristata* var. — Smith, 1885: 325, text-fig.; *Limopsis minuta* Dautzenberg, 1927: 285 partim (non Philippi); *Limopsis galathea* Knudsen, 1970: 81, text-figs 49B, 50, pl. 9: 8, 9; Oliver, Allen, 1980b: 106, figs 29, 30; Allen, 2008: 152.

LOCALITIES: “Princesse Alice” 1896, St. 749, 753 (Dautzenberg, 1927); “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Northwest, Southeast and equatorial regions of the Atlantic.

DEPTH RANGE: 3730–5315 m.

#### *Limopsis minuta* (Philippi, 1836)

*Pectunculus minutus* Philippi, 1836: 63, pl. 5: 3; *Limopsis minuta* — Jeffreys, 1876b: 434; Locard, 1898: 328, pl. 15: 30–32; Dautzenberg, 1927: 285; Oliver, Allen, 1980b: 96, figs 17–19a; Salas, 1996: 47, figs 74–77; Giannuzzi-Savelli et al., 2001: 90, figs 126–131;

LOCALITIES: “Princesse Alice” 1896, St. 749, 753 (Dautzenberg, 1927).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 20–5005 m.

#### *Limopsis tenella* Jeffreys, 1876

*Limopsis tenella* Jeffreys, 1876b: 434; Oliver, Allen, 1980b: 89, figs 11–16; Allen, 2008: 141; *Limopsis pelagica* Smith, 1885: 254, pl. 18: 3, 3A; Pelseeneer, 1888: 12, pl. 2: 1; Dautzenberg, Fischer, 1897: 203; Dautzenberg, 1927: 286; Knudsen, 1967: 265, pl. 1: 12–15; Knudsen, 1970: 83, pl. 9: 11, 12; pl. 10: 1–11; pl. 11: 1–3; *Limopsis plana* Verrill, 1882: 441; Bush, 1893: 240, pl. 2: 19, 20; Verrill, Bush, 1898: 846, pl. 75: 5; *Limopsis profundicola* Verrill, Bush, 1898: 847, pl. 75: 4; pl. 83: 4; *Limopsis transversa* Locard, 1898: 326, pl. 15: 11–14; *Limopsis guinensis* Thiele in: Thiele, Jaekel, 1931: 25; pl. 1: 17; *Limopsis aurita* — Soot-Ryen, 1966: 8 (non Brocchi).

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876b); “Princesse Alice”, St. 20, 22, 45 (Dautzenberg, Fischer, 1897); St. 1306; 2111, 2114 (Dautzenberg, 1927); “Talisman” 1883, St. “131” = 144, “134” = 147, “138” = 153 (Locard, 1898); “Michael Sars”, St. 53 (Soot-Ryen, 1966); “Challenger”, St. 6 (Allen, 2008).

DISTRIBUTION: Atlantic and Indian Ocean.

DEPTH RANGE: 2000–5000 m.

### Family Pectinidae

#### Genus *Delectopecten* Stewart, 1930

Type species: *Pecten vancoverensis* Whiteaves, 1893.

#### *Delectopecten vitreus* (Gmelin, 1791)

*Ostrea vitrea* Gmelin, 1791: 3328; *Pecten abyssorum* Lovén in Sars, 1878: 22, pl. 2: 6; Locard, 1898: 398; *Chlamys chaperi* Dautzenberg, Fischer, 1897: 190, pl. 5: 5–8; *Pecten vitreus* — Locard, 1898: 396; Friele, Grieg, 1901: 10; Jensen, 1912: 27 partim; *Chlamys (Pseudamussium) vitreum* — Dautzenberg, Fischer, 1906: 69; *Delectopecten vitreus* var. *abyssorum* — Schein, 1989: 75, pl. 2: 1–6; *Delectopecten vitreus* — Ardevini, Cossignani, 1999: 90, fig.; Giannuzzi-Savelli et al., 2001: 172, fig. 326; Dijkstra, Goud, 2002: 48, figs 42–44; Dijkstra, Gofas, 2004: 59, fig. 18; Allen, 2008: 136.

LOCALITIES: “Travailleur” 1881, St. 1 (Locard, 1898; Schein, 1989); 1882, St. 50 (Locard, 1898, as *abyssorum*); “Talisman” 1883, St. 42, 136 (Locard, 1898, as *vitreus*); “Princesse Alice”, 1901, St. 1116 (Dautzenberg, Fischer, 1906); “Vöringen”, St. 51 (Friele, Grieg, 1901); “Chain”, St. 316 (Allen, 2008); INCAL, St. CP 01; CP 02 (Schein, 1989).

DISTRIBUTION: North Atlantic, Mediterranean.

DEPTH RANGE: 100–4255 m.

#### *Delectopecten* sp.

*Delectopecten* sp. a — Allen, 2008: 136.

LOCALITIES: “Chain”, St. 316 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2493 m.

#### Genus *Hyalopecten* Verrill, 1897

Type species: *Pecten undatus* Verrill, 1885.

***Hyalopecten frigidus* (Jensen, 1904)**

*Pecten fragilis* Jeffreys, 1876b: 424 partim (non Montagu, 1808 nec DeFrance, 1823); Friele, Grieg, 1901: 8; *Pecten frigidus* Jensen, 1904: 305; Jensen, 1912: 33–36, pl. 1: 7a–f; *Hyalopecten frigidus* — Bouchet, Warén, 1979: 216, figs 31, 32; Knudsen, 1985: 101; Warén, 1989a: 130; Richling, 2000: 47; Dijkstra et al., 2009: 225, figs 1K, L, 2A, 5F, G, 9A, B.

LOCALITIES: “Valorous”, St. 12, 16 (Jeffreys, 1876b); “Vöringen”, St. 40, 51, 53, 295, 303, 353 (Friele, Grieg, 1901); “Ingolf”, St. 112, 113 (Jensen, 1912); NORBI, St. 1, 2, 3, 5, 6, 10, 11 (Bouchet, Warén, 1979); “FRAM I Drift-Ice Expedition”, St. 18 (Knudsen, 1985); “Ymer”, St. MB 8 (DE1), MB 9 (DE2), MB 10 (DE3) (Warén, 1989a); BIOICE (Dijkstra et al., 2009).

DISTRIBUTION: Arctic Ocean, Norwegian Sea.  
DEPTH RANGE: 1060–3920 m.

***Hyalopecten pudicus* (Smith, 1885)**

*Pecten fragilis* Jeffreys, 1876b: 424 partim (non Montagu, 1808 nec DeFrance, 1823); Jeffreys, 1879: 561, pl. 45: 1; Jensen, 1912: 37; *Pecten pudicus* Smith, 1885: 302, pl. 21: 8; *Pecten undatus* Verrill, Smith in Verrill, 1885: 444, pl. 44: 21; *Chlamys (Pseudamussium) pudica* — Dautzenberg, Fischer, 1897: 191; *Cyclopecten (Hyalopecten) undatus* — Knudsen, 1970: 101, pl. 14: 1, 2; text-fig. 63; *Hyalopecten undatus* — Schein, 1989: 78, pl. 3: 1–9; Salas, 1996: 56; *Hyalopecten pudicus* — Dijkstra, Goud, 2002: 47, fig. 41; Dijkstra, Gofas, 2004: 58, fig. 17.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1879); “Ingolf”, St. 18 (Jensen, 1912); BIOGAS I, St. CV 04; POLYGAS, St. DS 15; Biogas III, St. DS 36; BIOGAS IV, St. CP 01, DS 51, DS 57; BIOGAS V, St. CP 07; BIOGAS VI, St. CP 08, CP 09, CP 11; BIOGAS VII, St. CP 26; BIOGAS VIII, St. CP 30; BIOGAS IX, St. CP 33; BIOGAS XI, St. CP 37; INCAL, St. CP 09; St. OS 06, WS 09 (Schein, 1989); BALGIM, St. CP 69 (Salas, 1996).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 400–5100 m.

**Genus *Pseudamussium* Mörch, 1853**

Type species: *Pecten septemradiatus* Müller, 1776.

***Pseudamussium sulcatum* (Müller, 1776)**

*Pecten sulcatus* Müller, 1776: 248; *Pecten bruei* — Locard, 1898: 380, pl. 17: 1–4; *Chlamys bruei* — Schein, 1989: 73, fig. 7; Ardovini, Cossignani, 1999: 89, fig.; *Karnekampia bruei* — Giannuzzi-Savelli et al., 2001: 192, figs 398–399; *Pseudamussium sulcatum* — Dijkstra, Goud, 2002: 57.

LOCALITIES: “Travailleur” 1881, St. 18 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 180–2455 m.

**Genus *Talochlamys* Iredale, 1929**

Type species: *Chlamys famigerator* Iredale, 1925.

***Talochlamys pusio* (Linnaeus, 1758)**

*Ostrea pusio* Linnaeus, 1758: 698; *Pecten distortus* — Locard, 1898: 378; *Chlamys (Hinnites) distorta* — Tebble, 1966: 60, pl. 6: h–i, pl. 12: b–c; *Crassadoma pusio* — Waller, 1993: 215, figs 5b, e, h, 6 k, l; *Talochlamys pusio* — Dijkstra, Goud, 2002: 69, figs 73–74.

LOCALITIES: “Talisman” 1883, St. “140” = 155 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 0–2285 m.

**Pectinidae sp.**

Pectinidae sp. — Allen, 2008: 127 ff.

LOCALITIES: INCAL, St. DS 02; “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2081–4632 m.

**Family Propeamussiidae****Genus *Catillopecten* Iredale, 1939**

Type species: *Pecten murrayi* E.A. Smith, 1885.

***Catillopecten eucymatus* (Dall, 1898)**

*Hyalopecten fragilis* — Verrill, 1897: 81 (non Jeffreys); *Pecten (Hyalopecten) eucymatus* Dall, 1898: 754; *Pecten biscayensis* — Locard, 1898: 400 partim (non Locard, 1886); *Chlamys (Hyalopecten) undata* — Dautzenberg, 1927: 261 partim (non Smith); *Bathypecten eucymatus* — Schein, 1989: 81, pl. 4: 1–8; pl. 5: 1, 3, 5; Allen, 2008: 140; *Catillopecten eucymatus* — Dijkstra, Gofas, 2004: 54, fig. 15; Dijkstra et al., 2009: 223, figs 1C, D, 2G, 4C, D, 8A, B.

LOCALITIES: POLYGAS, St. DS 20, DS 21, DS 22; BIOGAS II, St. DS 32; BIOGAS III, St. CV 27, DS 37; BIOGAS IV, St. DS 55, DS 61; BIOGAS V, St. DS 67; BIOGAS IV, St. DS 76, DS 78, DS 79; INCAL, St. CP 08, CP 09, WS 01, WS 03, DS 15, DS 16, WS 07, WS 08, WS 09, WS 10, OS 08 (Schein, 1989); BIOICE (Dijkstra et al., 2009); “Chain”, St. 321 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1057–4829 m.

***Catillopecten* sp.**

*Bathypecten* sp. b, c — Allen, 2008: 150.

LOCALITIES: “Chain”, St. 328 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 4435 m.

**Genus *Cyclopecten* Verrill, 1897**

Type species: *Pecten pustulosus* Verrill, 1893.

***Cyclopecten ambiannulatus* Schein, 1989**

*Cyclopecten ambiannulatus* Schein, 1989: 84, pl. 6: 1–9, 11, 12; Allen, 2008: 138 ff.

LOCALITIES: BIOGAS II, St. DS 32; BIOGAS III, St. DS 37, DS 38, DS 41; BIOGAS IV, St. DS 57, DS 63; BIOGAS VI, St. CP 17, DS 79, DS 80; BIOGAS VII, St. CP 26, BIOGAS VIII, St. KG 149; INCAL, St. DS 01, DS 02, DS 06, DS 15, WS 02, WS 03, WS 04 (Schein, 1989); Challenger”, St. 10 (Allen, 2008); “Chain”, St. 328, 330 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1903–4829 m.

### *Cyclopecten* sp.

*Cyclopecten* sp. a — Allen, 2008: 140 ff.

LOCALITIES: “Chain”, St. 323, 328 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 3338–4435 m.

### Genus *Parvamussium* Sacco, 1897

Type species: *Pecten duodecimlamellatum* Bronn, 1831.

#### *Parvamussium permirum* (Dautzenberg, 1925)

*Amussium fenestratum* — Jeffreys, 1879: 561 partim (non Forbes); *Amussium propinquum* — Locard, 1898: 407 partim (non Smith); *Amussium (Variamussium) permirum* Dautzenberg, 1925: 11, figs 11, 14; Dautzenberg, 1927: 271, pl. 8: 13, 14; *Parvamussium permirum* — Schein, 1989: 90, pl. 1: 1–6, 8, 9; pl. 7: 8, 9; Allen, 2008: 142 ff.

LOCALITIES: “Princesse Alice” 1910, St. 2964, 2986 (Dautzenberg, 1927); POLYGAS, St. DS 20, DS 21, DS 22, DS 23; BIOGAS II, St. CV 18, DS 30; BIOGAS III, St. CV 27, DS 48; BIOGAS IV, St. DS 55, DS 56; BIOGAS V, St. DS 66, DS 67, DS 68; BIOGAS VI, St. DS 76, DS 77, DS 78, DS 79, DS 80; INCAL, St. WS 03, WS 07, WS 08, WS 09, WS 10, OS 05, OS 06, OS 08 (Schein, 1989); “Talisman” 1883, St. “134” = 147 (Locard, 1898; Schein, 1989); “Chain”, St. 323, 330 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 3480–4870 m.

#### *Parvamussium propinquum* (Smith, 1885)

*Amussium propinquum* Smith, 1885: 314, pl. 23: 7; Locard, 1898: 407 partim; *Amussium sublucidum* Dautzenberg, Fischer, 1897: 193, pl. 5: 9, 10; Dautzenberg, 1927: 267, pl. 8: 9, 10; *Parvamussium lucidum* — Schein, 1989: 88, pl. 1: 7; pl. 6: 10; pl. 7: 1–7; *Parvamussium propinquum* — Dijkstra, Goud, 2002: 38, figs 14–20; Dijkstra, Gofas, 2004: 38, fig. 3; Dijkstra et al., 2009: 214, figs 11, J, 2E, 3A–D, 4G, H, 8C, D.

LOCALITIES: “Princesse Alice” 1895, St. 624 (Dautzenberg, 1927); BIOGAS I, St. CV 04, CW 03, DS 07, DS 12, DS 13; POLYGAS, St. DS 15, DS 17, DS 18, CV 10, CV 11; BIOGAS II, St. DS 31, DS 32; BIOGAS III, St. DS 36, DS 37, DS 38; BIOGAS IV, St. CP 01, DS 52, DS 57, DS 62, DS 63, DS 64, CV 37; BIOGAS V, St. CP 07, CV 39; BIOGAS VI, St.

CP 08, CP 09, DS 74; BIOGAS VII, St. CP 26, BIOGAS VIII, St. KG 148; BIOGAS XI, St. CP 37; BIACORES, St. 165 (Schein, 1989); BIOICE (Dijkstra et al., 2009).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 790–4060 m.

### *Parvamussium* sp.

*Parvamussium* sp. — Allen, 2008: 140

LOCALITIES: “Chain”, St. 321 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2868 m.

### Genus *Propeamussium* Gregorio, 1884

Type species: *Amussium dalli* E.A. Smith, 1885.

#### *Propeamussium lucidum* (Jeffreys in Thompson, 1873)

*Pleuonectia lucida* Jeffreys in Thompson, 1873: 464, fig. 78; *Amussium lucidum* — Jeffreys, 1876b: 425; Locard, 1898: 406; Jensen, 1912: 37, pl. 2: 3a–c; *Amussium lucidum* var. *striata* Jeffreys, 1879: 562; *Amussium hypomeces* Dautzenberg, Fischer, 1897: 195, pl. 2: 11, 12; Dautzenberg, 1927: 268, pl. 8: 11–12; *Propeamussium centobi* Schein, 1989: 93, pl. 8: 1–6; *Propeamussium lucidum* — Morton, Thurston, 1989: 471; Ardovalini, Cossignani, 1999: 90, fig.; Giannuzzi-Savelli et al., 2001: 170, figs 321–322; Dijkstra, Goud, 2002: 34, figs 1–4, 39–40; Dijkstra, Gofas, 2004: 35, fig. 2.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876b); “Porcupine” 1870, St. 17 (Jeffreys, 1879); “Travailleur” 1881, St. 1, “30” = 31; “Talisman”, 1883, St. “136” = 150 (Locard, 1898); “Thor”, no station number (Jensen, 1912), “Princesse Alice” 1895, St. 624 (Dautzenberg, 1927); BIOGAS IV, St. DS 57; BIOGAS VI, CP 10 (Schein, 1989).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 284–4255 m.

### Family Limidae

#### Genus *Limatula* S.V. Wood, 1839

Type species: *Pecten subauriculatus* Montagu, 1808.

#### *Limatula celtica* Allen, 2004

*Limatula celtica* Allen, 2004: 2611, figs 22–25, 45d; Allen, 2008: 147.

LOCALITIES: “Chain”, St. 323, 328, 330; POLYGAS, St. DS 20, DS 21; BIOGAS III, St. DS 45; BIOGAS IV, St. DS 55, DS 56; INCAL, St. DS 15, DS 16 (Allen, 2004; 2008).

DISTRIBUTION: Northeast and equatorial Atlantic.

DEPTH RANGE: 3356–4632 m.

#### *Limatula confusa* (Smith, 1885)

*Lima ovata* — Jeffreys, 1876b: 426 (non S.V. Wood); *Lima (Limatula) confusa* Smith, 1885: 292, pl. 24: 6;



*Radula (Limatula) confusa* — Dautzenberg, Fischer, 1897: 187; Dautzenberg, 1927: 251; *Limatula confusa* — Knudsen, 1970: 170; Allen, 2004: 2644.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876b).

DISTRIBUTION: North and Southwest Atlantic.

DEPTH RANGE: 800?–2639 m.

### ***Limatula gibba* (Jeffreys, 1876)**

*Lima gibba* Jeffreys, 1876b: 428; *Limatula gibba* — Knudsen, 1970: 170; *Limatula subovata gibba* — Allen, 2004: 2651.

LOCALITIES: “Valorous”, St. 12, 16 (Jeffreys, 1876b).

DISTRIBUTION: Northwest Atlantic.

DEPTH RANGE: 2639–3249

### ***Limatula jeffreysi* (Fischer, 1882)**

*Lima jeffreysi* Fischer, 1882: 52; Locard, 1898: 415, figs 20–23, pl. 15; Jensen, 1912: 45, pl. 2:10a–c; *Limatula jeffreysi* — Allen, 2004: 2647.

LOCALITIES: “Ingolf”, St. 18 (Jensen, 1912).  
DISTRIBUTION: North and Northeast Atlantic.

DEPTH RANGE: 533–2066 m.

### ***Limatula louiseae* Clarke, 1974**

*Limatula louiseae* Clarke, 1974: 16, figs; Allen, 2004: 2601, figs 10–12, 45a; Allen, 2008: 141 ff.

LOCALITIES: INCAL, St. DS 08, DS 15 (Allen, 2008).

DISTRIBUTION: North and Central Atlantic.

DEPTH RANGE: 421–4793 m.

### ***Limatula margaretae* Allen, 2004**

*Limatula margaretae* Allen, 2004: 2603, figs 13–16, 45b.

LOCALITIES: “Chain”, St. 318, 326, 328, 330; POLYGAS, St. DS 18, DS 21, DS 22; BIOGAS II, St. DS 30; BIOGAS III, St. DS 41; BIOGAS IV, St. DS 55, DS 57, DS 60; BIOGAS V, St. DS 66, DS 67; BIOGAS VI, St. DS 76, DS 77, CP 14; INCAL, St. DS 16, WS 08, WS 09, WS 10, OS 05 (Allen, 2004).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1518–4632 m.

### ***Limatula subauriculata* (Montagu, 1808)**

*Pecten subauriculatus* Montagu, 1808: 63, pl. 29: 2; *Lima subauriculata* — Locard, 1898: 416; Jensen, 1912: 42, pl. 2: 6a–c; *Lima (Limatula) elongata* Forbes, 1844: 192; *Lima sulculus* Lovén, 1846: 186; *Radula (Limatula) subauriculata* — Dautzenberg, 1927: 249; *Lima (Limatula) subauriculata* — Ockelmann, 1958: 73; Tebble, 1966: 68, text-figs 28a–b; *Limatula subauriculata* — Ardovini, Cossignani, 1999: 92, fig.; Giannuzzi-Savelli et al., 2001: 222, fig. 466; Allen, 2004: 2649.

LOCALITIES: “Travailleur” 1882, St. 44 (Locard, 1898); “Princesse Alice” 1895, St. 624 (Dautzenberg, 1927).

DISTRIBUTION: Arctic Ocean, North Atlantic, Mediterranean.

DEPTH RANGE: 18–3213 m.

### ***Limatula subovata* (Monterosato, 1875)**

*Lima subovata* Monterosato, 1875: 9; *Lima subovata* — Jeffreys, 1876b: 427; Jeffreys, 1879: 563, pl. 45:2; Smith, 1885: 292; Jensen, 1912: 44, pl. 2: 8a–c; *Radula (Limatula) subovata* — Dautzenberg, 1927: 251; *Limatula subovata* — Giannuzzi-Savelli et al., 2001: 222, figs 467–468; Allen, 2004: 2594, figs 1–9; Allen, 2008: 128 ff.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876b); “Porcupine” 1869, St. 19, 20 (Jeffreys, 1879); “Challenger”, St. 6, 10 (Allen, 2008); “Chain”, St. 316, 318, 321 (Allen, 2004; 2008); POLYGAS, St. DS 18; BIOGAS II, St. DS 32; BIOGAS III, St. DS 35, DS 37, DS 38; BIOGAS IV, St. CP 01; DS 52, DS 61, DS 62, DS 63, DS 64; BIOGAS VI, St. DS 71; INCAL, St. DS 01, DS 02, DS 05, DS 06, D 07, DS 08, DS 10, DS 14 (Allen, 2004, 2008).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 228–3500 m.

### **Genus *Limea* Bronn, 1831**

Type species: *Ostrea strigilata* Brocchi, 1814.

#### ***Limea sarsii* Lovén, 1846**

*Limea sarsii* Lovén, 1846: 32; *Lima sarsii* — Jeffreys, 1879: 562; Locard, 1898: 419; Jensen, 1912: 46, pl. 2: 11a–d; *Radula (Limea) crassa* — Dautzenberg, 1927: 252 (non Forbes); *Limea sarsi* — Tebble, 1966: 69 partim, text-fig. 29; Allen, 2004: 2624, 2652, figs 38–41, 46d.

LOCALITIES: “Travailleur” 1881, St. 1 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: ca. 100–2664 m.

### **Family Lucinidae**

#### **Genus *Lucinoma* Dall, 1901**

Type species: *Lucina filosa* Stimpson, 1851.

#### ***Lucinoma kazani* Salas et Woodside, 2002**

*Lucinoma kazani* Salas, Woodside, 2002: 995, figs 2, 3, 6–8, 12–14, 17.

LOCALITIES: MEDINAUT, St. MN 13 (Salas, Woodside, 2002).

DISTRIBUTION: Mediterranean.

DEPTH RANGE: 1300–2030 m.

#### **Genus *Myrtea* Turton, 1822**

Type species: *Venus spinifera* Montagu, 1803.

***Myrtea amorpha* (Sturany, 1896)**

*Lucina amorpha* Sturany, 1896: 16, pl. 1: 22; *Myrtea amorpha* — Sabelli et al., 1990: 301.

LOCALITIES: “Pola” 1891, St. 82 (Sturany, 1896).

DISTRIBUTION: Mediterranean.

DEPTH RANGE: 2420 m.

***Myrtea spinifera* (Montagu, 1803)**

*Venus spinifera* Montagu, 1803: 577, pl. 17: 1; *Lucina spinifera* — Jeffreys, 1881: 701; Locard, 1898: 277; *Myrtea spinifera* — Tebble, 1966: 76, text-fig. 33a, pl. 7: 3; Salas, 1996: 59; Ardovini, Cossignani, 1999: 93, fig.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1881).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 9–2650 m.

**Family Thyasiridae****Genus *Axinulus* Verrill et Bush, 1898**

Type species: *Cryptodon (Axinulus) brevis* Verrill et Bush, 1898.

***Axinulus brevis* (Verrill et Bush, 1898)**

*Cryptodon (Axinulus) brevis* Verrill, Bush, 1898: 790, pl. 89: 7, 8; *Thyasira (Axinulus) brevis* — Dall, 1901: 787; Clarke, 1962: 65; *Thyasira brevis* — Johnson, 1934: 39; Knudsen, 1970: 170, 176; Allen, 2008: 127 ff; *Thyasira (Axinulus) brevis* — Payne, Allen, 1991: 522, figs 63–68; *Axinulus (Axinulus) brevis* — Oliver, Killeen, 2002: 64.

LOCALITIES: “Chain”, St. 318, 323, 330 (Allen, 2004; 2008); “Challenger”, St. 6, 10; POLYGAS, St. DS 15, DS 18, DS 23, DS 26, DS 28; BIOGAS II, St. DS 30; BIOGAS III, St. DS 35, DS 36, DS 37, DS 38, DS 46, DS 48; BIOGAS IV, St. DS 51, DS 52, DS 53, DS 54, DS 55, DS 58, DS 61, DS 62, DS 63; BIOGAS V, St. DS 64, KR 50, DS 69; BIOGAS VI, St. DS 74, DS 82, D S85 (Payne, Allen, 1991); INCAL, St. DS 02, DS 09, DS 10, DS 11, DS 15, DS 16; “Sarsia”, St. 50 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 1261–4750 m.

***Axinulus croulinensis* (Jeffreys, 1847)**

*Clausina croulinensis* Jeffreys, 1847: 19; *Clausina croulinensis* — Jeffreys, 1858b: 122, pl. 5: 2(a–c); ? *Axinulus croulinensis* — Jeffreys, 1881: 703 partim (= *obsoleta* ?); ? Locard, 1898: 291 partim (= *obsoleta* ?); Di Geronimo, 1974: 138, 139; Janssen, 1989: 270; *Thyasira (Axinulus) croulinensis* — Payne, Allen, 1991: 525, figs 70–72, 73(c), 74, 75; Allen, 2008: 136 ff; *Axinulus (Axinulus) croulinensis* — Oliver, Killeen, 2002: 50, 68, pl. 3: C; 20: A–E.

LOCALITIES: “Porcupine” 1869, St. 19, 21, 30, 31 (Jeffreys, 1881); records uncertain because of possible misidentification (see *Thyasira obsoleta*), see Payne, Allen, 1991: 527; “Ruth Ann”, St. 2, 7 (Di

Geronimo, 1974); “Meteor” 5, St. 42 (Janssen, 1989); “Chain”, St. 316, 318, 326, 330; “Challenger”, St. 6, 10; POLYGAS, St. DS 21 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 20–4632 m.

***Axinulus eumyariius* (M. Sars, 1870)**

*Axinus eumyariius* M. Sars, 1870: 87, pl. 12: 7–10; Jeffreys, 1876c: 492; Locard, 1898: 293; *Thyasira (Axinulus) eumyaria* — Dall, 1901: 788; Dautzenberg, 1927: 315; Payne, Allen, 1991: 529, figs 76, 77; *Thyasira (Leptaxinus) eumyaria* Dautzenberg, Fischer, 1912: 489; *Axinulus eumyariius* — Ockelmann, 1958: 197; Di Geronimo, 1974: 156; *Thyasira eumyaria* — Clarke, 1962: 64; *Axinulus (Genaxinus) eumyariius* — Oliver, Killeen, 2002: 52, pl. 21.

LOCALITIES: “Ruth Ann”, St. 7 (Di Geronimo, 1974).

DISTRIBUTION: North Atlantic, Mediterranean.

DEPTH RANGE: 42–2663 m.

**Genus *Axinus* Sowerby, 1821**

Type species: *Axinus angulatus* Sowerby, 1821.

***Axinus grandis* (Verrill et Smith in Verrill, 1885)**

*Cryptodon grandis* Verrill, Smith in Verrill, 1885: 436, pl. 44: 22; Dall, 1889: 50, pl. 46: 22; *Schizothaerus grandis* — Locard, 1898: 222; *Mytilimeria ?fischeri* Locard, 1898: 212, pl. 10: 22–28; *Mytilimeria sahariana* Locard, 1898: 213, pl. 10: 29–31; *Halicardia ferruginea* Di Geronimo, 1974: 158, pl. 4: 1–3; *Thyasira grandis* — Dall, 1901: 785; Clarke, 1962: 64; *Axinus grandis* — Payne, Allen, 1991: 484, figs 1–4; Löffler et al., 2005: 583, figs 2–5.

LOCALITIES: “Travailleur” 1880, St. 16 (Locard, 1898); “Ruth Ann”, St. 2, 7 (Di Geronimo, 1974); “Challenger”, St. 10 (Payne, Allen, 1991).

DISTRIBUTION: North Atlantic, Mediterranean.

DEPTH: 155–2893 m.

**Genus *Leptaxinus* Verrill et Bush, 1898**

Type species: *Leptaxinus minutus* Verrill et Bush, 1898.

***Leptaxinus incrassatus* (Jeffreys, 1876)**

*Axinus incrassatus* Jeffreys, 1876c: 492; *Axinus incrassatus* — Jeffreys, 1881: 703 partim, not pl. 61: 7 (= *succisa*); Lamy, 1920: 315–316; Warén, 1980: 44; *Axinus dubius* — Dautzenberg, Fischer, 1897: 215–216, pl. 6: 18–21; *Leptaxinus incrassatus* — Dall, 1901: 789; Johnson, 1934: 40; Ockelmann, 1958: 197; *Thyasira dubia* — Dautzenberg, 1927: 312, pl. 8: 35–38; Clarke, 1962: 64; *Thyasira incrassata* — Clarke, 1962: 64; *Thyasira (Leptaxinus) incrassata* — Payne, Allen, 1991: 518, figs 55, 57–62; *Axinulus incrassatus* — Allen, 2008: 137.

LOCALITIES: “Valorous”, St. 12, 16 (Jeffreys, 1876c); POLYGAS, St. DS 16; BIOGAS II, St. DS 31, DS 32; BIOGAS III, St. DS 35, DS 36, DS 37, DS 41; BIOGAS IV, St. DS 58, DS 59, CV 38, DS 61, DS 62, DS 63, DS 64; BIOGAS V, St. DS 65; BIOGAS VI, St. CP 09, DS 71, DS 72, DS 74 (Payne, Allen, 1991); “Chain”, St. 318 (Allen, 2008).

DISTRIBUTION: North and Northeast Atlantic.

DEPTH RANGE: 1550–3448 m.

### Genus *Mendicula* Iredale, 1924

Type species: *Mendicula memorata* Iredale, 1924.

#### *Mendicula carrozae* (Payne et Allen, 1991)

*Thyasira* (*Mendicula*) *carrozae* Payne, Allen, 1991: 541, figs 93–95; Allen, 2008: 150.

LOCALITIES: “Chain”, St. 328 (Allen, 2008).

DISTRIBUTION: Northeastern Atlantic to Argentine Basin.

DEPTH RANGE: 307–4435 m.

#### *Mendicula ferruginosa* (Forbes, 1844)

*Kellia ferruginosa* Forbes, 1844: 192; *Clausina ferruginosa* — Jeffreys, 1847: 18; *Axinus ferruginosus* — Jeffreys, 1881: 703; G.O. Sars, 1878: 63, pl. 19: 10a, b; *Axinus ferrugineus* Locard, 1886: 293; *Cryptodon* (*Axinulus*) *ferruginosus* — Verrill, Bush, 1898: 793, pl. 87: 7, 8; *Thyasira* (*Axinulus*) *ferruginosa* — Dall, 1901: 787, 791; Clarke, 1962: 65; *Axinulus ferruginosus* — Ockelmann, 1958: 197; Richling, 2000: 50, figs 55, 56; *Thyasira ferruginea* — Tebble, 1966: 80, figs 35a,b; Knudsen, 1970: 170; Allen, 2008: 127 ff; *Thyasira* (*Mendicula*) *ferruginea* — Payne, Allen, 1991: 534, figs 82–87; *Mendicula ferruginosa* — Oliver, Killeen, 2002: 54, 68, pl. 3: D; pl. 22: A–C.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1881); BIOGAS II, St. DS 30; BIOGAS III, St. DS 48; BIOGAS IV, St. DS 51, DS 52, DS 53, DS 55, DS 56, DS 58, DS 60, DS 62, DS 64; BIOGAS V, St. DS 66, DS 67, DS 69, DS 70; BIOGAS VI, St. CP 14, DS 76, DS 77, DS 82, DS 84, CP 21, CP 22, DS 85; “Sarsia”, St. 7601 (Payne, Allen, 1991); INCAL, St. DS 02, DS 06, DS 10, DS 15; “Sarsia”, St. 50; “Chain”, St. 318, 321, 330 (Allen, 2008).

DISTRIBUTION: Arctic Ocean, Atlantic, Mediterranean.

DEPTH RANGE: 30–4825 m.

#### *Mendicula inflata* (Payne et Allen, 1991)

*Thyasira* (*Mendicula*) *inflata* Payne, Allen, 1991: 543, figs 97–99.

LOCALITIES: BIOGAS IV, St. DS 54; BIOGAS VI, St. CP 22 (Payne, Allen, 1991).

DISTRIBUTION: Northeastern and Southwestern Atlantic.

DEPTH RANGE: 3865–4659 m.

#### *Mendicula ockelmanni*

#### (Keuning et Schander, 2010)

*Kellia symmetros* — Friele, Grieg, 1901: 29 (non Jeffreys); *Thyasira* sp. n. — Bouchet, Warén, 1979: 216, fig. 4; Knudsen, 1985: 101; *Thyasira* (*Mendicula*) *ockelmanni* Keuning, Schander, 2010: 22, fig. 2.

LOCALITIES: NORBI, St. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 (Bouchet, Warén, 1979); “FRAM I Drift-Ice Expedition”, St. 4, 18 (Knudsen, 1985); “Norwegian Sea”, St. 870618-1, 840317-3 (Keuning, Schander, 2010).

DISTRIBUTION: Arctic Ocean, Norwegian Sea.

DEPTH RANGE: 2300–3300 m.

#### *Mendicula transversa* (Payne et Allen, 1991)

*Thyasira* (*Mendicula*) *transversa* Payne, Allen, 1991: 545, figs 100–105; Allen, 2008: 144 ff.

LOCALITIES: “Chain”, St. 323, 326, 330 (Payne, Allen, 1991; Allen, 2008); Biogas VI, St. DS 76; INCAL, St. DS 11 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 508–5223 m.

#### Genus *Thyasira* Leach, 1817

Type species: *Tellina flexuosa* Montagu, 1803.

#### *Thyasira atlantica* Payne et Allen, 1991

*Thyasira* (*Parathyasira*) *atlantica* Payne, Allen, 1991: 509, figs 43–44; Allen, 2008: 145 ff.

REMARKS: *Thyasira* (*Parathyasira*) *atlantica* is a homonym of *Thyasira* (*Thyasira*) *succisa atlantica* Payne et Allen, 1991 (p. 500).

LOCALITIES: BIOGAS IV, St. DS 55; “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 4125–4862 m

#### *Thyasira biscayensis* Payne et Allen, 1991

*Thyasira* (*Parathyasira*) *biscayensis* Payne, Allen, 1991: 508, figs 40–42; Allen, 2008: 152 ff.

LOCALITIES: BIOGAS VI, St. DS 80 (Payne, Allen, 1991); “Chain”, St. 330; INCAL, St. DS 11 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 4632–4823 m.

#### *Thyasira equalis* (Verrill et Bush, 1898)

*Cryptodon equalis* Verrill, Bush, 1898: 788, pl. 91: 5, 6; *Thyasira equalis* — Dall, 1901: 787; Clarke, 1962: 64; Soot-Ryen, 1966: 27, pl. 1: 11; Allen, 2008: 139 ff; *Thyasira* spec. a — Ockelmann, 1958: 197; *Thyasira* (*Parathyasira*) *equalis* — Payne, Allen, 1991: 504, figs 34–37; Oliver, Killeen, 2002: 38, 66, pl. 3: A; pl. 6: E, pl. 15: A–E.

LOCALITIES: POLYGAS, St. DS 22, DS 23, DS 26; BIOGAS II, St. DS 30, DS 31, DS 32; BIOGAS III, St. DS 38, DS 42, DS 44, DS 45; BIOGAS IV, St. DS 51, DS 52, DS 55; BIOGAS V,

St. DS 70; BIOGAS VI, St. DS 76, DS 78, DS 85 (Payne, Allen, 1991; Allen, 2008); INCAL, St. DS 09 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 10–4734 m.

***Thyasira obsoleta* (Verrill et Bush, 1898)**

*Axinus croulinensis* — Sars, 1878: 62, pl. 19: 8a–b; Jeffreys, 1881: 703 (non *Axinulus croulinensis* Jeffreys); *Axinus flexuosus* var. *rotunda* Jeffreys, 1881: 701; *Thyasira croulinensis* — Johnson, 1934: 39; Ockelmann, 1958: 110, 197; *Cryptodon obsoletus* Verrill, Bush, 1898: 789, pl. 89: 1–2; *Thyasira obsoleta* — Ockelmann in Bowden and Heppell, 1968: 262; Oliver, Killeen, 2002: 44, 67, pl. 3: B; pl. 17: A–G; pl. 18: A–F; *Thyasira* (*Thyasira*) *obsoleta* — Payne, Allen, 1991: 493, figs 19–23; Allen, 2008: 137 ff.

LOCALITIES: “Porcupine” 1869, St. 19, 21, 30, 31; 1870, St. 17 (Jeffreys, 1881); POLYGAS, St. DS 16, DS 17, DS 18, DS 25, DS 26; BIOGAS II, St. DS 31, DS 32, DS 33; BIOGAS III, St. DS 35, DS 37, DS 38, DS 50; BIOGAS IV, St. DS 52, DS 63; BIOGAS V, St. DS 65; BIOGAS VI, St. DS 71 (Payne, Allen, 1991); “Chain”, St. 318, 321; INCAL, St. DS 11 (Allen, 2008).

DISTRIBUTION: North and East Atlantic.

DEPTH RANGE: 24–4823 m.

***Thyasira striata* (Sturany, 1896)**

*Axinus flexuosus* var. *striatus* Sturany, 1896: 17, pl. 1: 23; *Thyasira striata* — Sabelli et al., 1990: 301.

LOCALITIES: “Pola” 1891, St. 82 (Sturany, 1896).

DISTRIBUTION: Mediterranean.

DEPTH RANGE: 2420 m.

***Thyasira subcircularis* Payne et Allen, 1991**

*Thyasira* (*Parathyasira*) *subcircularis* Payne, Allen, 1991: 502, figs 32, 33.

LOCALITIES: POLYGAS, St. DS 25; BIOGAS IV, St. DS 52; BIOGAS V, St. DS 70 (Payne, Allen, 1991).

DISTRIBUTION: Eastern Atlantic.

DEPTH RANGE: 800–2357 m.

***Thyasira subovata subovata* (Jeffreys, 1881)**

*Axinus subovatus* Jeffreys, 1881: 704, pl. 61: 8; Locard, 1898: 295; Ockelmann, 1958: 197; *Cryptodon subovatus* — Verrill, 1884: 279; *Thyasira* (*Axinulus*) *subovata* — Lamy, 1920: 312; Johnson, 1934: 40; *Leptaxinus subovatus* — Di Geronimo, 1974: 156, pl. 3: 2a,b; *Thyasira subovata* — Clarke, 1962: 65; Oliver, Killeen, 2002: 60, pl. 25: A–B; Allen, 2008: 127 ff; *Axinulus subovata* — Nordsieck, 1969: 80, pl.13: 48.13; *Thyasira* (*Parathyasira*) *subovata subovata* — Payne, Allen, 1991: 513, figs 48–50, 53a,b.

LOCALITIES: “Porcupine” 1869, St. 30 (Jeffreys, 1881); “Travailleur” 1880, St. 16 (Locard, 1898); “Ruth Ann”, St. 7 (Di Geronimo, 1974);

“Challenger”, St. 6, 10, 55; BIOGAS II, St. DS 31; BIOGAS III, St. DS 41; BIOGAS IV, St. DS 59, DS 64, DS 62; BIOGAS VI, DS 74 (Payne, Allen, 1991; Allen, 2008); INCAL, St. DS 01, DS 02, DS 05, DS 06, DS 07, DS 08, DS 10, DS 14, DS 15; “Chain”, St. 318; “Challenger”, St. 6, 10; “Sarsia”, St. 50 (Allen, 2008).

DISTRIBUTION: East and Southwest Atlantic, Mediterranean.

DEPTH RANGE: 988–4254 m.

***Thyasira succisa atlantica***

**Payne et Allen, 1991**

*Thyasira* (*Thyasira*) *succisa atlantica* Payne, Allen, 1991: 500, figs 28a, b, 29–30; Allen, 2008: 152.

REMARKS: *Thyasira succisa atlantica* is a homonym of *Thyasira* (*Parathyasira*) *atlantica* Payne et Allen, 1991.

LOCALITIES: “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic to Argentine Basin.

DEPTH RANGE: 508–4632 m.

***Thyasira succisa succisa* (Jeffreys, 1876)**

*Axinus incrassatus* var. *succisa* Jeffreys, 1876c: 492; Jeffreys, 1881: 703, pl. 61: 7; *Thyasira* (*Axinulus*) *succisa* — Dall, 1901: 788; Johnson, 1934: 39; Clarke, 1962: 65; *Axinus succisus* — Lamy, 1920: 315; *Leptaxinus incrassatus* var. *succisus* — Nordsieck, 1969: 81, pl. 13: 48.12; *Axinus incrassatus succisa* — Warén, 1980: 46; *Thyasira* (*Thyasira*) *succisa succisa* — Payne, Allen, 1991: 496, figs 24–28c,d; Allen, 2008: 127 ff; *Thyasira succisa* — Oliver, Killeen, 2002: 48, 67, pl. 19.

LOCALITIES: BIOGAS II, St. DS 31, DS 32, DS 33; BIOGAS IV, St. DS 52, DS 59, DS 61 (Payne, Allen, 1991; Allen, 2008); “Chain”, St. 321 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 73–2868 m.

***Thyasira* sp.**

*Thyasira* sp.n. — Warén, 1989a: 130.

LOCALITIES: “Ymer”, St. MB 10 (DE3) (Warén, 1989b.)

DEPTH RANGE: 2450 m.

***Thyasira* sp. sp.**

*Thyasira* sp. 1, 2 a, 15, 17, 30, 32, 47a, S 50, 318, 323, 328, 330 — Allen, 2008: 128 ff.

LOCALITIES: BIOGAS IV, St. DS 54, DS 58; BIOGAS VI, St. DS 76, DS 79, DS 83; INCAL, St. DS 01, DS 06, DS 07, DS 16; “Chain”, St. 318, 323, 326, 330; “Sarsia”, St. 50 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2091–4715 m.

**Family Cardiidae****Genus *Parvicardium* Monterosato, 1884**

Type species: *Cardium parvum* Philippi, 1844 (non DaCosta, 1778) = *Cardium exiguum commutatum* Bucquoy, Dautzenberg et Dollfus, 1892.

***Parvicardium minimum* (Philippi, 1836)**

*Cardium minimum* Philippi, 1836: 51; Jeffreys, 1881: 709; Locard, 1898: 265; Friele, Grieg, 1901: 34; *Cardium perrieri* Dautzenberg, Fischer, 1897: 211, pl. 6: 17; *Parvicardium minimum* — Tebble, 1966: 100, text-figs 11a–b; Voskuil, Onverwagt, 1989: 72, fig. 5.4.02; Aartsen, Goud, 2001: 121, figs 4–6, 9, 10, 12.

LOCALITIES: “Porcupine” 1870, St. 17, 51 (Jeffreys, 1881); “Travailleur” 1880, St. 16 (Locard 1898); “Vöringen”, St. 177 (Friele, Grieg, 1901).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 9–2704 m.

**Family Montacutidae****Genus *Draculamya* Oliver et Lützen, 2011**

Type species: *Draculamya porobranchiata* Oliver et Lützen, 2011.

***Draculamya porobranchiata*****Oliver et Lützen, 2011**

*Lasaea pumilla* S.V. Wood, 1840 — Jeffreys, 1881: 699 partim (non Sowerby); Locard, 1898: 299; Friele, 1886: 37, pl. 12: 13 (non Sowerby); “*Lasaea*” *pumila* — Aartsen, Carozza, 1997: 28, figs 1–4; *Draculamya porobranchiata* Oliver, Lützen, 2011: 366, figs 1A, 2, 4.

LOCALITIES: “Talisman” 1883, station without number, 2770 m (Locard, 1898 teste Jeffreys).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1100–2770 m.

**Genus *Epilepton* Dall, 1899**

Type species: *Lepton clarkiae* Clark, 1852.

***Epilepton* sp.**

*Epilepton* sp. — Allen, 2008: 141.

LOCALITIES: INCAL, ST. DS 09 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2897 m.

**Genus *Kellia* Turton, 1822**

Type species: *Mya suborbicularis* Montagu, 1803.

***Kellia* (?) *subtrigona* (Jeffreys, 1858)**

*Poromya subtrigona* Jeffreys, 1858a: 42, pl. 2: 1; *Axinus cycladius* — Jeffreys, 1876c: 491; Jeffreys, 1881: 704; Locard, 1898: 295 (non Wood); *Kellia subtrigona* — Bowden, Heppell, 1968: 264, note 92; “*Poromya*” *subtrigona* — Aartsen, 1997: 53; *Epilepton subtrigonomum* — Allen, 2008: 138.

REMARKS: The identity and taxonomy of this species is unresolved, the type material is lost.

LOCALITIES: “Porcupine” 1869, St. 19 (Jeffreys, 1881); Talisman” 1883, station without number (Locard, 1898); “Challenger”, St. 10 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 55–3185 m.

**Genus *Kelliola* Dall, 1889**

Type species: *Kellia symmetros* Jeffreys, 1876.

***Kelliola symmetros* (Jeffreys, 1876)**

*Kellia symmetros* Jeffreys, 1876c: 491; *Kellia* (*Kelliola*) *symmetros* — Dall, 1899: 890; *Axinodon symmetros* — Warén, 1980: 47; *Kelliola symmetros* — Oliver, 2012: 7, figs 2-4A; not *Kellia symmetros* — Locard, 1898: 297, pl. 13: 18–20, = *Syssitomya pourtalesiana*; not *Axinodon symmetros* — Bouchet, Warén, 1979: 216, fig. 3, = *Syssitomya pourtalesiana*.

LOCALITIES: “Valorous”, St. 9 (Jeffreys, 1876c), Shackleton cruise, St. 1903/2, 1903/7 (Oliver, 2012).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 3202–4265 m.

**Genus *Kurtiella* Gofas et Salas, 2008**

Type species: *Mya bidentata* Montagu, 1803.

***Kurtiella bidentata* (Montagu, 1803)**

*Mya bidentata* Montagu, 1803: 44; *Montacuta bidentata* — Jeffreys, 1881: 698; *Mysella bidentata* — Tebble, 1966: 91, text-figs 44a–c; Janssen, 1989: 270; Aartsen, 1997: 34, fig. 12; Gofas, Salas, 2008: 122, figs 5–8.

LOCALITIES: “Porcupine”, 1869, St. 17, 19 (Jeffreys, 1881); “Meteor” 5, St. 15 (Janssen, 1989).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 0–2475 m.

***Kurtiella tumidula* (Jeffreys, 1866)**

*Montacuta tumidula* Jeffreys, 1866: 396; Jeffreys, 1867: 192; Jeffreys, 1869: 177, pl. 100, fig. 5; Allen, 2008: 154; *Kurtiella tumidula* — Gofas, Salas, 2008: 130, fig. 14.

LOCALITIES: BIOGAS VI, St. DS 78 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 200–4706 m.

**Genus *Montacuta* Turton, 1822**

Type species: *Ligula substriata* Montagu, 1808.

***Montacuta* sp.**

*Montacuta* sp. — Allen, 2008: 149.

LOCALITIES: INCAL, St. DS 14 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 4354 m.

**Genus *Mysella* Angas, 1877**Type species: *Mysella anomala* Angas, 1877.***Mysella verrilli* Dall, 1899**

*Montacuta ovata* — Verrill, Bush, 1898: 781, pl. 92, figs 9–10 (non Jeffreys, 1881); *Mysella tumidula verrilli* Dall, 1899: 878, 890; *Rochefortia tumidula verrilli* — Dall, 1903: pl. 85, figs 1–2; *Mysella verrilli* — Allen, 2008: 128 ff.

LOCALITIES: INCAL, St. DS 02; “Chain”, St. 318 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 2081–2505 m.

***Mysella* sp.***Mysella* sp. 1 — Allen, 2008: 137 ff.

LOCALITIES: “Chain”, St. 318, 330 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2505–4632 m.

**Genus *Tellimyia* Brown, 1827**Type species: *Mya ferruginosa* Montagu, 1808.***Tellimyia ferruginosa* (Montagu, 1808)**

*Mya ferruginosa* Montagu, 1808: 22; *Montacuta ferruginosa* — Jeffreys, 1881: 696; Tebble, 1966: 91, text-figs 43a–c; *Montaguia ferruginea* — Locard, 1898: 300; *Tellimyia ferruginosa* — Poppe, Goto, 1993: 87, pl. 14: 15; Aartsen, 1997: 33, fig. 9.

LOCALITIES: “Porcupine” 1869, St. 19 (Jeffreys, 1881).

DISTRIBUTION: Arctic Ocean, Northeast Atlantic.

DEPTH RANGE: 0–2489 m.

**Genus *Syssitomya* Oliver, 2012**Type species: *Syssitomya pourtalesiana* Oliver, 2012.***Syssitomya pourtalesiana* Oliver, 2012**

? *Kellia symmetros* — Locard, 1898: 297, pl. 13, figs 18–20; Friele, Grieg, 1901: 29; *Axinodon symmetros* — Bouchet, Warén, 1979: 216, fig. 3; *Syssitomya pourtalesiana* Oliver, 2012: 14, figs 4B, E; 7, 8A–B.

LOCALITIES: NORBI, St. 1, 2, 3, 5, 6, 10, 11 (Bouchet, Warén, 1979); “Challenger”, St. 137, 231 (Oliver, 2012).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 800–3617 m.

***Lasaeidae* sp.***Montacutidae* sp. — Allen, 2008: 141.

LOCALITIES: INCAL, St. DS 09 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2897 m.

**Family Kelliellidae****Genus *Kelliella* M. Sars, 1870**Type species: *Venus ? miliaris* Philippi, 1844.***Kelliella miliaris* (Philippi, 1844)**

*Venus ? miliaris* Philippi, 1844a: 36, pl. 14: 15; *Kellia abyssicola* Forbes, 1844: 192; *Isocardia cor* — Jeffreys, 1876c: 493; Jeffreys, 1881: 710 partim (non Linnaeus); *Kelliella abyssicola* — Di Geronimo, 1974: 155; Janssen, 1989: 270; Ardovini, Cossignani, 1999: 95, fig.; *Kelliella miliaris* — Warén, 1989c: 26, figs 16A–E; Allen, 2001: 201, figs 1–2; Allen, 2008: 128; Janssen, Krylova, 2012: 91, pl. 2, figs 6–9.

REMARKS: For discussion about priority of name *miliaris* over *abyssicola* see in Janssen, Krylova, 2012.

LOCALITIES: “Valorous”, St. 12, 16 (Jeffreys, 1876c); “Porcupine” 1869, St. 17, 19, 30, 31; 1870, St. 17 (Jeffreys, 1881); “Ruth Ann”, St. 2 (Di Geronimo, 1974); “Meteor” 5, St. 15 (Janssen, 1989); INCAL, St. DS 01 (Allen, 2008).

DISTRIBUTION: North Atlantic, Mediterranean.

DEPTH RANGE: 30–2400 m.

***Kelliella* sp. sp.***Kelliella* sp. 1, sp. 323 — Allen, 2008: 143 ff.

LOCALITIES: BIOGAS IV, St. DS 53; BIOGAS VI, St. DS 76; “Chain”, St. 323 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 3338–4425 m.

**Family Vesicomidae****Genus *Vesicomya* Dall, 1886**Type species: *Callocardia atlantica* Smith, 1885.***Vesicomya abyssicola* (Allen, 2001)***Kelliella abyssicola* Allen, 2001: 215, figs 20–23.

LOCALITIES: “Chain”, St. 330 (Allen, 2001).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2185–4632 m.

***Vesicomya atlantica* (Smith, 1885)**

*Callocardia (?) atlantica* Smith, 1885: 157, pl. 6: 8–8b; *Callocardia (Vesicomya) atlantica* — Dall, 1886: 272; Boss, 1968: 735; Boss, 1970: 76; *Vesicomya atlantica* — Smith, 1900: 82; Odhner, 1960: 374; Cosel, Salas, 2001: 336, figs 6–14, 98; ?*Kelliella nitida* — Allen, 2001: 203 partim, fig. 5; *Kelliella atlantica* — Allen, 2001: 205 partim, fig. 7; Allen, 2008: 127 ff.

LOCALITIES: NORATLANTE, St. 3 (E1); “Thalassa”, St. 336; BIACORES, St. 126, 171, 173A (Cosel, Salas, 2001); BIOGAS II, St. DS 30, DS 31; BIOGAS III, St. DS 38, DS 40, DS 44, DS 50; BIOGAS IV, St. DS 51, DS 52, DS 53, DS 54, DS 55, DS 56, DS 59, DS 62, DS 63, DS 71; BIOGAS V, St. DS DS 66, DS 67, DS 68, DS 69, DS 70; BIOGAS

VI, St. DS 75, DS 76, DS 77, DS 78, DS 79, DS 80, DS 82 (Allen, 2008); “Chain”, St. 316, 318, 321, 325, 326, 328, 330 (Allen 2001; 2008); “Challenger”, St. 6, 10, 74/90; “Sarsia”, St. S 50 (Allen 2001; 2008); POLYGAS, St. DS 20, DS 21, DS 22, DS 23, DS 25, DS 26, DS 28; INCAL, St. DS 01, DS 02, DS 05, DS 06, DS 07, 08, DS 09, DS 10, DS 14, DS 15, DS 16 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1800–4750 m.

### Genus *Isorropodon* Sturany, 1896

Type species: *Isorropodon perplexum* Sturany, 1896.

#### *Isorropodon perplexum* Sturany, 1896

*Isorropodon perplexum* Sturany, 1896: 17, pl. 1: 24–27; Cosel, Salas, 2001: 343, figs 33–48, 82, 83, 100; *Vesicomya* sp. — Corselli, Basso, 1966: 235, fig. 6.

LOCALITIES: “Nadir”, St. MN8 (Cosel, Salas, 2001).

DISTRIBUTION: Mediterranean.

DEPTH RANGE: 1950–2500 m.

#### *Isorropodon elongatum* (Allen, 2001)

*Kelliella elongata* Allen, 2001: 213, figs 17–19; Allen, 2008: 146; *Isorropodon elongata* — Cosel, Salas, 2001: 349.

LOCALITIES: POLYGAS, St. DS 22 (Allen, 2008).

DISTRIBUTION: North Atlantic to Argentine Basin.

DEPTH RANGE: 478–5100 m.

### Family Mactridae

#### Mactridae sp.

Mactridae sp. — Allen, 2008: 154.

LOCALITIES: BIOGAS VI, St. DS 78 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 4706 m.

### Family Semelidae

#### Genus *Abra* Lamark, 1818

Type species: *Mactra tenuis* Montagu, 1818.

#### *Abra longicallus* (Scacchi, 1835)

*Tellina longicallus* Scacchi, 1835: 79, pl. 1: 7; *Scrobicularia longicallus* — Jeffreys, 1882a: 926; Locard, 1898: 224, pl. 12: 32–33; *Abra longicallus* — Tebble, 1966: 153, text-figs 79a–b; Ardovini, Cossignani, 1999: 95, fig.

LOCALITIES: “Porcupine” 1869, St. 37, 38; 1870, St. 51 (Jeffreys, 1882a); “Talisman”, 1883, St. 43 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 55–3655 m.

#### *Abra nitida* (Müller, 1776)

*Mya nitida* Müller, 1776: 245; *Scrobicularia nitida* — Jeffreys, 1882a: 925; *Syndesmya nitida* — Locard, 1898: 226 partim, pl. 12: 34–35; *Abra nitida* — Tebble, 1966: 152, text-fig. 77b.

LOCALITIES: “Porcupine” 1869, St. 17 (Jeffreys, 1882a); ? “Travailleur” 1881, St. 1; “Talisman” 1883, St. “134” = 147 (Locard, 1898; records doubtful because of probable misidentification, see *Abra profundorum*).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 37–4060 m.

#### *Abra profundorum* (Smith, 1885)

*Semele (Abra) profundorum* Smith, 1885: 88, pl.5: 5, 5b; *Syndesmya longicallus* — Locard, 1898: 224 partim (non Scacchi); *Syndesmya nitida* — Locard, 1898: 226 partim, pl. 12: 36–37 (non Müller); *Syndesmya profundorum* — Dautzenberg, 1889: 86; Dautzenberg, Fischer, 1897: 220; Dautzenberg, 1927: 334; Locard, 1898: 226, pl. 12: 36, 37; *Abra profundorum* — Soot-Ryen, 1966: 29; Allen, Sanders, 1966: 1175, figs 2, 3d; Knudsen, 1967: 290, figs 21 A, B; Knudsen, 1970: 104, text-figs 65, 66; Salas, 1996: 67; Allen, 2008: 136 ff.

LOCALITIES: “Travailleur” 1881, St. 1; “Talisman” 1883, St. “38” = 41, “130” = 143, “134” = 147 (Locard, 1898); “Princesse Alice” 1895, St. 117 (624), 119 (749); 1896, St. 120; 1904, St. 1789; 1910, St. 2964, 2994 (Dautzenberg, Fischer, 1897; Dautzenberg, 1927); “Michael Sars”, St. 10 (Soot-Ryen, 1966); BALGIM, St. CP 66, CP 68, CP 69 (Salas, 1996); “Chain”, St. 316, 323, 328, 330; INCAL, St. DS 06, DS 11, DS 14, DS 15, DS 16; BIOGAS III, St. DS 42, DS 46; BIOGAS IV, St. DS 54, DS 55, DS 56, DS 60; BIOGAS V, St. DS 67, DS 68, DS 69; BIOGAS VI, St. DS 75, DS 76, DS 77, DS 79; POLYGAS, St. DS 20, DS 21, DS 22 (Allen, 2008).

DISTRIBUTION: East Atlantic, West and Central Pacific.

DEPTH RANGE: 1360–5300 m.

### Family Tellinidae

#### Genus *Arcopella* Thiele, 1934

Type species: *Tellina crassa* Pennant, 1777.

#### *Arcopella balaustina* (Linnaeus, 1758)

*Tellina balaustina* Linnaeus, 1758: 676; *Tellina balaustina* — Jeffreys, 1881: 718; Locard, 1898: 233; *Tellina (Arcopagia) balaustina* — Tebble, 1966: 148, pl. 11: k; *Arcopagia balaustina* — Poppe, Goto, 1993: 109, pl. 19: 1.

LOCALITIES: “Porcupine” 1869, St. 17 (Jeffreys, 1881).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 4–3850 m.

**Tellinidae sp.**

Tellinidae sp. f — Allen, 2008: 135.  
 LOCALITIES: “Sarsia”, St. 50 (Allen, 2008).  
 DISTRIBUTION: Northeast Atlantic.  
 DEPTH RANGE: 2397 m.

**Family Veneridae****Genus *Timoclea* Brown, 1827**

Type species: *Venus ovata* Pennant, 1777.

***Timoclea ovata* (Pennant, 1777)**

*Venus ovata* Pennant, 1777: 83; Jeffreys, 1881: 716; Locard, 1898: 251; *Venus (Timoclea) ovata* — Tebble, 1966: 116, text-figs 62a–b; *Timoclea ovata* — Poppe, Goto, 1993: 125, pl. 21: 10.

LOCALITIES: “Porcupine” 1869, St. 19 (Jeffreys, 1881).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 9–2489 m.

**Family Corbulidae****Genus *Corbula* Bruguière, 1797**

Type species: *Corbula sulcata* Lamarck, 1801.

***Corbula gibba* (Olivi, 1792)**

*Tellina gibba* Olivi, 1792: 101; *Corbula gibba* — Jeffreys, 1882a: 944; Tebble, 1966: 171, text-figs 91a–c; Poppe, Goto, 1993: 129, pl. 24: 1.

LOCALITIES: “Porcupine” 1869, St. 19, 21 (Jeffreys, 1882a).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 0–2702 m.

**Family Pholadidae Lamarck, 1809****Genus *Xylophaga* Turton, 1822**

Type species: *Teredo dorsalis* Turton, 1819.

***Xylophaga dorsalis* (Turton, 1819)**

*Teredo dorsalis* Turton, 1819: 185; *Xylophaga dorsalis* — Locard, 1898: 147; Turner, 1955: 146, pl. 88; Di Geronimo, Panetta, 1973: 110; Di Geronimo, 1974: 138; Tebble, 1966: 187, text-fig. 100c; Vatova, 1974: 111; Janssen, 1989: 270; Poppe, Goto, 1993: 132, pl. 25: 7; *Xylophaga dorsalis abyssorum* Nordsieck, 1973: 6, fig. 26.

LOCALITIES: “Travailleur” 1881, St. 1 (Locard, 1898); “Meteor” 17, St. B2 (Di Geronimo, Panetta, 1973); “Meteor” 17, St. D1 (Nordsieck, 1973); “Meteor” 17, St. B2, D1 (Vatova, 1974); “Ruth Ann”, St. 2, 7 (Di Geronimo, 1974); “Meteor” 5, St. 14, 15, 30 (Janssen, 1989).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 0–3910 m.

***Xylophaga praestans* Smith, 1903**

*Xylophaga praestans* Smith, 1903: 328; Tebble, 1966: 185, text-figs 100a–b; Carozza, 1975: 192, fig. 5; Janssen, 1989: 270.

LOCALITIES: “Meteor” 5, St. 30 (Janssen, 1989).

DISTRIBUTION: North Sea, Mediterranean.

DEPTH RANGE: ca. 50–2173 m.

**Family Pholadomyidae****Genus *Panacca* Dall, 1905**

Type species: *Pholadomya arata* Verrill, 1881.

***Panacca africana* (Locard, 1898)**

*Pholadomya africana* “Fischer” Locard, 1898: 165, pl. 7: 42–45; Clarke, 1962: 68; *Panacca africana* — Soot-Ryen, 1966: 12.

LOCALITIES: “Talisman” 1883, St. “40” = 41 (Locard, 1898).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 2083–2324 m.

**Genus *Parilimyia* Melvill et Standen, 1899**

Type species: *Pholadomya (Parilimyia) haddoni* Melvill et Standen, 1899.

***Parilimyia loveni* (Jeffreys, 1882)**

*Pholadomya loveni* Jeffreys, 1882a: 934, pl. 70: 7; Jeffreys, 1882b: 30; Locard, 1898: 164; Soot-Ryen, 1941: 11, pl. 1: 1–6, pl. 8: 1; Clarke, 1962: 68; Ardivini, Cossignani, 1999: 96, fig.

LOCALITIES: This species was recorded by Locard, 1898 at 2127 m and Jeffreys, 1882b at 155–2227 m in the Mediterranean Sea.

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 155–2227 m.

**Family Periplomatidae****Genus *Cochlodesma* Couthouy, 1839**

Type species: *Anatina leana* Conrad, 1831.

***Cochlodesma tenerum* Fischer, 1882**

*Thracia tenera* Jeffreys, 1880: 316 (nomen nudum); *Cochlodesma tenerum* Fischer, 1882: 53; Salas, 1996: 71, figs 104–105; Allen, 2008: 128 ff.

LOCALITIES: INCAL St. DS 01; BIOGAS III, St. DS 38 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 677–2138 m.

**Family Thraciidae****Genus *Bushia* Dall, 1886**

Type species: *Bushia elegans* Dall, 1886.

***Bushia* sp.**

*Bushia* sp. — Allen, 2008: 135.



LOCALITIES: “Sarsia”, St. 50 (Allen, 2008).  
DISTRIBUTION: Northeast Atlantic.  
DEPTH RANGE: 2397 m.

### Genus *Thracia* Sowerby, 1823

Type species: *Mya pubescens* Pulteney, 1799.

#### *Thracia pubescens* (Pulteney, 1799)

*Mya pubescens* Pulteney, 1799: 27, pl. 4, fig. 6;  
*Thracia pubescens* — Tebble, 1966: 197, fig. 104a; Poppe,  
Goto, 1993: 137, pl. 26, fig. 3a–b; Allen, 2008: 128.

LOCALITIES: INCAL, St. DS 01 (Allen, 2008).  
DISTRIBUTION: Northeast Atlantic, Mediter-  
ranean.

DEPTH RANGE: 60–2091 m.

#### *Thracia* sp.

*Thracia* sp. — Allen, 2008: 128 ff.

LOCALITIES: INCAL, St. DS 02; “Chain”, St.  
316 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2081–2493 m.

## Family Cuspidariidae

### Genus *Bathyneera*

#### Scarlato et Starobogotov, 1983

Type species: *Cuspidaria hadalis* Knudsen, 1970.

#### *Bathyneera hadalis* (Knudsen, 1970)

*Cuspidaria hadalis* Knudsen, 1970: 146, figs 104–  
105; *Myonera hadalis* — Allen, Morgan, 1981: 476;  
*Myonera demistriata* Allen, Morgan, 1981: 469, figs 33–  
34; Allen, 2008: 141 ff; *Bathyneera hadalis* — Krylova,  
1993: 52, fig. 1A–E; Poutiers, Bernard, 1995: 159.

LOCALITIES: INCAL, St. DS 09; “Chain”, St.  
330 (Allen, 2008).

DISTRIBUTION: Pacific Ocean, North Atlan-  
tic.

DEPTH RANGE: 1135–7270 m.

### Genus *Cardiomya* A. Adams, 1864

Type species: *Neaera gouldiana* Hinds, 1843.

#### *Cardiomya cadiziana* Huber, 2010

*Neaera curta* Jeffreys, 1876c: 495 (non Jeffreys, 1865);  
*Neaera curta* — Jeffreys, 1882a: 943, pl. 71: 10; Smith,  
1885: 49; *Cuspidaria curta* — Dautzenberg, 1889: 88;  
Locard, 1898: 192, pl. 9: 24–28; *Cardiomya (Cuspidaria)*  
*curta* — Allen, Morgan, 1981: 468; Salas, 1996: 76, figs  
135, 136. *Cardiomya cadiziana* Huber, 2010: 795 (re-  
placement name for *N. curta* Jeffreys, 1876 non 1865)

REMARKS: *Neaera curta* Jeffreys, 1876, is a  
*nomen nudum* according to Poutiers, Bernard (1995:  
158). However, this is not the case, because the  
species was characterized briefly and differentiated  
from *N. striata* Jeffreys. The name is a primary hom-  
onym of *Neaera cuspidata* var. *curta* Jeffreys, 1865.

LOCALITIES: “Porcupine” 1870, St. 17 (Jef-  
freys, 1882a); “Travailleur” 1881, St. 1 (Locard,  
1898); BIOGAS II, DS 33 (Allen, Morgan, 1981).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 32–2338 m.

#### *Cardiomya costellata* (Deshayes, 1835)

*Corbula costellata* Deshayes, 1835: 86, pl. 24: 1–3;  
*Neaera costellata* — Jeffreys, 1882a: 944; *Cuspidaria*  
*costellata* — Locard, 1898: 193; *Cuspidaria striolata*  
Locard, 1898: 195, pl. 8: 20–25; *Cuspidaria (Cardiomya)*  
*costellata* — Allen, Morgan, 1981: 464, fig. 29; Salas,  
1996: 76, figs 137, 138; *Cardiomya costellata* — Poutiers,  
Bernard, 1995: 167; Ardovini, Cossignani, 1999: 98, fig.;  
Allen, 2008: 137 ff.

LOCALITIES: “Travailleur” 1881, St. 31 (Lo-  
card, 1898, as *striolata*); “Chain”, St. 318, 330;  
INCAL, St. DS 09 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic, Mediter-  
ranean.

DEPTH RANGE: 5–4632 m.

#### *Cardiomya knudseni* (Allen et Morgan, 1981)

*Cardiomya abyssicola* — Verrill, Bush, 1898: 807  
partim, pl. 74: 1 (not pl. 73: 4, and pl. 77: 9); *Cuspidaria*  
(*Cardiomya*) *knudseni* Allen, Morgan, 1981: 466, figs 30–  
32; Allen, 2008: 128.

LOCALITIES: POLYGAS, St. DS 15, DS 17,  
DS 18, DS 25; BIOGAS II, DS 31; BIOGAS IV, DS  
51 (Allen, Morgan, 1981); INCAL, St. DS 02 (Allen,  
2008).

DISTRIBUTION: West and Northeast Atlantic.

DEPTH RANGE: 1661–3806 m.

#### *Cardiomya striata* (Jeffreys, 1876)

*Neaera striata* Jeffreys, 1876c: 496; Jeffreys, 1882a:  
944, pl. 71: 11; *Cuspidaria striata* — Locard, 1898: 190,  
pl. 9, figs 18–23; *Cuspidaria (Cardiomya) greeni* Smith,  
1889: 423; *Cuspidaria (Cardiomya) striata* — Salas,  
1996: 76, figs 133, 134; *Cardiomya striata* — Poutiers,  
Bernard, 1995: 167.

LOCALITIES: “Valorous”, St. 12 (Jeffreys,  
1876c).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 150–2650 m.

### Genus *Cuspidaria* Nardo, 1840

Type species: *Cuspidaria typus* Nardo, 1840 =  
*Tellina cuspidata* Olivi, 1792.

#### *Cuspidaria atlantica* Allen et Morgan, 1981

*Cuspidaria atlantica* Allen, Morgan, 1981: 455, figs  
21–23; Allen, 2008: 140 ff.

LOCALITIES: “Chain”, St. 321, 330 (Allen,  
2008).

DISTRIBUTION: North Atlantic to Angola  
Basin.

DEPTH RANGE: 530–4632 m.

***Cuspidaria bicarinata* (Jeffreys, 1876)**

*Neaera bicarinata* Jeffreys, 1876c: 496; Jeffreys, 1882a: 939, pl.71: 1; *Cuspidaria bicarinata* — Locard, 1898: 180; Poutiers, Bernard, 1995: 157.

REMARKS: The date of description of this species usually is given as 1882, although it had been described prior to this in 1876. The reference of 1876 was cited erroneously by Warén, 1980 as “*Neaera striata* var. *bicarinata*” and treated as a taxon different from that of 1882. When describing *Neaera striata*, Jeffreys wrote (1876: 496) “A fragment of another species of *Neaera* occurred at Station 13 [of the ‘Valorous’ Expedition] ... which I propose to name *bicarinata*.”

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1882a)

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1262–2004 m.

***Cuspidaria centobi* Bouchet et Warén, 1979**

*Cuspidaria centobi* Bouchet, Warén, 1979: 218, figs 6:A, B, D, fig.7; Knudsen, 1985: 102; Richling, 2000: 72, fig. 80.

LOCALITIES: NORBI, St. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 (Bouchet, Warén, 1979); “FRAM I Drift-Ice Expedition”, St. 4, 18 (Knudsen, 1985).

DISTRIBUTION: Arctic Ocean, Norwegian Sea.

DEPTH RANGE: 2300–3709 m.

***Cuspidaria circinata* (Jeffreys, 1876)**

*Neaera circinata* Jeffreys, 1876c: 497; Jeffreys, 1882a: 942, pl. 71: 6; Smith, 1885: 42, pl. 10: 4, 4b; *Cuspidaria circinata* — Dautzenberg, 1889: 87; Locard, 1898: 185; Dautzenberg, 1927: 338; Clarke, 1962: 71; Allen, Morgan, 1981: 459, fig. 25; Salas, 1996: 74, figs 125–126.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876c); “Travailleur” 1882, St. 42, 44; “Talisman” 1883, St. “38” = 41, “39” = 42, “41” = 45, 43, 44 (Locard, 1898); BIOGAS I, St. DS 17; BIOGAS IV, St. CP 01; BIOGAS V, St. 07; (Allen, Morgan, 1981); BALGIM, St. CP 68 (Salas, 1996).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 565–4382 m.

***Cuspidaria contracta* (Jeffreys, 1882)**

*Neaera contracta* Jeffreys, 1882a: 941, pl.71: 4; *Cuspidaria contracta* — Locard, 1898: 190; Poutiers, Bernard, 1995: 158.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1882a); “Talisman” 1883, no station number (Locard, 1898 teste Jeffreys).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 1354–2967 m.

***Cuspidaria elliptica* Di Geronimo, 1974**

*Cuspidaria* (*Cuspidaria*) *elliptica* Di Geronimo, 1974: 157, pl. 3: 1a–b; *Cuspidaria ?elliptica* — Poutiers, Bernard, 1995: 159.

LOCALITIES: “Ruth Ann”, St. 7 (Di Geronimo, 1974).

DISTRIBUTION: Mediterranean.

DEPTH RANGE: 2300 m.

***Cuspidaria exigua* (Jeffreys, 1876)**

*Neaera exigua* Jeffreys, 1876c: 496; *Cuspidaria exigua* — Friele, Grieg, 1901: 40; Ockelmann, 1958: 163; Clarke, 1962: 71; Poutiers, Bernard, 1995: 159.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876c).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 640–2639 m.

***Cuspidaria gracilis* (Jeffreys, 1882)**

*Neaera gracilis* Jeffreys, 1882a: 938, pl. 70: 11; *Cuspidaria gracilis* — Locard, 1898: 175; Poutiers, Bernard, 1995: 160.

LOCALITIES: The species was recorded by Poutiers and Bernard (1995) as occurring in the Northeast Atlantic at depth exceeding 2000 m. However, precise station data are not known.

DISTRIBUTION: Arctic Ocean, Northeast Atlantic.

DEPTH RANGE: 70–2032 m.

***Cuspidaria jeffreysi* (Dall, 1881)**

*Neaera jeffreysi* Dall, 1881: 111; *Cuspidaria jeffreysi* — Dall, 1886: 295, pl. 3, fig. 2; Allen, Morgan, 1981: 453, figs 19–20; Allen, 2008: 133.

LOCALITIES: POLYGAS, St. DS 15 (Allen, 2008).

DISTRIBUTION: North Atlantic to Angola Basin.

DEPTH RANGE: 1432–2246 m.

***Cuspidaria obesa* (Lovén, 1846)**

*Neaera obesa* Lovén, 1846: 202; *Neaera obesa* — Sars, 1878: 86, pl.8: 4a–c; Jeffreys, 1882a: 937; Jeffreys, 1882b: 30; Smith, 1885: 43; Locard, 1898: 172; D’Amico, 1912: 239, 264; *Cuspidaria obesa* — Dall, 1886: 295; Verrill, Bush, 1898: 804, pl. 75: 7; Ockelmann, 1958: 160; Allen, Morgan, 1981: 429, figs 1–12; Janssen, 1989: 270, 273; Ardovini, Cossignani, 1999: 98, fig.; Allen, 2008: 128, 140, 147.

LOCALITIES: “Porcupine” 1869, St. 37 (Jeffreys, 1882a); “Washington”, 1881, St. 8 (D’Amico, 1912); POLYGAS, St. DS 16, DS 18; BIOGAS II, St. DS 31; BIOGAS III, St. DS 41; BIOGAS IV, St. DS 59, DS 61, DS 64; BIOGAS VI, St. DS 71 (Allen, Morgan, 1981); “Meteor” 5, St. 30 (Janssen, 1989); INCAL, St. DS 02, DS 15; “Chain”, St. 321 (Allen, 2008).

DISTRIBUTION: Arctic Ocean, North Atlantic, East Atlantic, Mediterranean.

DEPTH RANGE: 18–4453 m.

***Cuspidaria papyria* (Jeffreys, 1876)**

*Neaera papyria* Jeffreys, 1876c: 498; *Cuspidaria papyria* — Poutiers, Bernard, 1995: 164; Absalão, Oliveira, 2011.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876c).

DISTRIBUTION: Northwest and Southwest Atlantic.

DEPTH RANGE: 1050–2652 m.

***Cuspidaria parva* Verrill et Bush, 1898**

*Cuspidaria parva* Verrill, Bush, 1898: 801, pl. 74: 9, pl. 77: 7; *Cuspidaria parva* — Clarke, 1962: 72; Allen, Morgan, 1981: 446, figs 13–18; Allen, 2008: 128 ff.

LOCALITIES: BIOGAS I, St. DS13; POLYGAS, St. DS 15, DS 16, DS 17, DS 18, DS 20, DS 21, DS 25, DS 26; BIOGAS II, St. DS 32, DS 33; BIOGAS III, St. DS 35, DS 37, DS 38, DS 50; BIOGAS IV, St. DS 51, DS 52, DS 53, DS 54, DS 55, DS 57, DS 58, DS 60, DS 61, DS 62, DS 63, CP 01, CV 38; BIOGAS V, St. DS 65, DS 67; BIOGAS VI, St. CP 09, CP 13, DS 71, DS 73, DS 74, DS 77 (Allen, Morgan, 1981; Allen, 2008); INCAL, St. DS 01, DS 02, DS 06, DS 07, DS 09, DS 14; “Chain”, St. 316, 318, 326, 328, 330; “Challenger”, St. 10 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 257–4659 m.

***Cuspidaria rostrata* (Spengler, 1793)**

*Mya rostrata* Spengler, 1793: 42; *Neaera rostrata* — Jeffreys, 1882a: 938; *Cuspidaria rostrata* — Locard, 1898: 169; Janssen, 1989: 270; Salas, 1996: 74, figs 113–114; Ardovini, Cossignani, 1999: 99, fig.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1882a); “Meteor” 5, St. 14 (Janssen, 1989).

DISTRIBUTION: North Atlantic, Mediterranean.

DEPTH RANGE: 18–3259 m.

***Cuspidaria semirostrata* Locard, 1898**

*Cuspidaria semirostrata* Locard, 1898: 177, pl. 8: 12–15.

LOCALITIES: “Travailleur” 1882, St. 43; “Talisman” 1883, St. 43, “118” = 126, “131” = 144 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2030–3175 m.

***Cuspidaria truncata* (Jeffreys, 1882)**

*Neaera truncata* Jeffreys, 1882a: 936, pl. 70: 9; *Cuspidaria truncata* — Locard, 1898: 179, pl. 8: 16–19; Salas, 1996: 76, figs 131–132; *Pseudoneaera truncata* — Poutiers, Bernard, 1995: 168.

LOCALITIES: “Travailleur” 1882, St. 43 (Locard, 1898).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 1353–2030 m.

***Cuspidaria undata* (Verrill, 1884)**

*Neaera undata* Verrill, 1884: 223; *Myonera undata* — Dall, 1886: 304; Dall, 1889: 68; Clarke, 1962: 72; Knudsen, 1970: 136, text-figs 93, 94; *Cuspidaria lucifuga* Locard, 1898: 184, pl.7: 46–51; Clarke, 1962: 72; *Cuspidaria undata* — Verrill, Bush, 1898: 798, pl. 72: 1, pl. 78: 3,4; Allen, Morgan, 1981: 458; *Cuspidaria brucei* Melville, Standen, 1907: 122, pl. 1: 19; Clarke, 1962: 71; *Cuspidaria nybelini* Odhner, 1960: 381, pl. 1: 6, 7, text-figs 7–10.

LOCALITIES: “Talisman” 1883, St. “137” = 152 (Locard, 1898); BIOGAS VI, St. CP 16 (Allen, Morgan, 1981).

DISTRIBUTION: Atlantic and Indian Oceans.

DEPTH RANGE: 4320–5300 m.

***Cuspidaria ventricosa* Verrill et Bush, 1898**

*Cuspidaria ventricosa* Verrill, Bush, 1898: 802, pl. 72: 5; pl.76: 6; *Cuspidaria ventricosa* — Allen, Morgan, 1981: 460, fig. 26; Salas, 1996: 74, figs 117, 118.

LOCALITIES: The species was recorded by Poutiers and Bernard (1995) from the Atlantic, depth range from 349 to 3235 m. However, in the European seas there are no precise station records.

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 349–3235 m.

***Cuspidaria wollastonii* (Smith, 1885)**

*Neaera wollastonii* Smith, 1885: 40, pl.10: 6a–b; *Cuspidaria wollastonii* — Locard, 1898: 171, pl. 8: 6–11; Salas, 1996: 74, figs 111–112.

LOCALITIES: “Talisman” 1883, St. “28” = 29, “39” = 42, “41” = 45, “118” = 126 (Locard, 1898); BALGIM, St. CP 69 (Salas, 1996).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 103–3175 m.

***Cuspidaria* sp.**

*Cuspidaria* sp. — Knudsen, 1985: 102, pl. II.

LOCALITIES: “FRAM I Drift-Ice Expedition”, St. 18 (Knudsen, 1985).

DISTRIBUTION: Arctic Ocean.

DEPTH RANGE: 2300 m.

***Cuspidaria* sp.**

*Cuspidaria* sp. — Janssen, 1989: 270.

LOCALITIES: “Meteor” 5: St. 14, 15 (Janssen, 1989).

DISTRIBUTION: Mediterranean.

DEPTH RANGE: 2069–3259 m.

***Cuspidaria* sp. sp.**

*Cuspidaria* sp. 1, 2, 3, d, g, h, 326 — Allen, 2008: 131 ff.

LOCALITIES: BIOGAS II, St. DS 33, DS 35; BIOGAS III, St. DS 38; BIOGAS IV, St. DS 51, DS 59; BIOGAS VI, St. DS 79, DS 80, DS 82; POLYGAS, St. DS 15, DS 21, DS 22; INCAL, St. DS 07, DS 16; “Chain”, St. 323, 325, 326, 330; “Challenger”, St. 10 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.  
DEPTH RANGE: 2138–4720 m.

**Genus *Jeffreysomya* Nordsieck, 1969**

Type species: *Neaera truncata* Jeffreys, 1882.

***Jeffreysomya truncata* (Jeffreys, 1882)**

*Neaera truncata* Jeffreys, 1882a: 936, pl. 70: 9; *Cuspidaria truncata* — Locard, 1898: 179, pl. 8: 16–19; Salas, 1996: 76, figs 131–132; *Pseudoneaera truncata* — Poutiers, Bernard, 1995: 168.

LOCALITIES: “Travailleur” 1882, St. 43 (Locard, 1898).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 1353–2030 m.

**Genus *Luzonia* Dall et Smith in Dall, 1890**

Type species: *Neaera philippinensis* Hinds, 1843.

***Luzonia simplex* (Allen et Morgan, 1981)**

*Cuspidaria (Luzonia) simplex* Allen, Morgan, 1981: 485, fig. 50; Allen, 2008: 129 ff.; *Cuspidaria (Luzonia) simplex* — Poutiers, Bernard, 1995: 166.

LOCALITIES: BIOGAS IV, St. DS 51; POLYGAS, St. DS 25; “Sarsia”, St. 50 (Allen, 2008).

DISTRIBUTION: Northeast and Southeast Atlantic.

DEPTH RANGE: 619–2430 m.

**Genus *Myonera* Dall, 1886**

Type species: *Myonera paucistriata* Dall, 1886.

***Myonera alleni* Poutiers  
in Poutiers et Bernard, 1995**

*Cuspidaria (Myonera) atlantica* Allen, Morgan, 1981: 470, figs 35, 36; Allen, 2008: 140 ff.; *Myonera alleni* Poutiers in Poutiers, Bernard, 1995: 156, 168 (replacement name for *Cuspidaria (Myonera) atlantica* Allen et Morgan non *Cuspidaria atlantica* Allen et Morgan).

LOCALITIES: POLYGAS, St. DS 20, DS 21, DS 22; BIOGAS II, St. DS 30, DS 31; BIOGAS III, DS 37, DS 41, DS 45; BIOGAS IV, St. DS 52, DS 55, DS 56, DS 57, DS 58, DS 60; BIOGAS V, St. DS 66, DS 67; BIOGAS VI, St. DS 71, DS 75, DS 76, DS 77 (Allen, Morgan, 1981); INCAL, St. DS 07, DS 14, DS 15, DS 16; POLYGAS, St. DS 23 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1427–4734 m.

***Myonera angularis* (Jeffreys, 1876)**

*Neaera angularis* Jeffreys, 1876c: 498; Jeffreys, 1882a: 943, pl. 71: 9; *Cuspidaria (Myonera) angularis* — Salas, 1996: 76, figs 127, 128; *Myonera angularis* — Allen, 2008: 138 ff.

LOCALITIES: “Valorous”, St. 16 (Jeffreys, 1876c); “Porcupine”, 1870, St. 17 (Jeffreys, 1882a);

BIOGAS II, St. DS 31; BIOGAS IV, St. DS 57, DS 58, DS 79 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 530–4715 m.

***Myonera paucistriata* Dall, 1886**

*Myonera paucistriata* Dall, 1886: 302; Dall, 1890: 283, pl. 13: 12; Johnson, 1934: 33; *Cuspidaria (Myonera) paucistriata* — Allen, Morgan, 1981: 473, figs 37, 38; *Myonera bicarinata* Smith, 1896: 374; *Myonera dispar* Dall et al., 1938: 225, pl. 58: 5–7.

LOCALITIES: BIOGAS I, St. DS 11; POLYGAS, St. DS 17, DS 18, DS 26, CV 11; BIOGAS IV, St. DS 52, DS 61, DS 56, DS 62, CP 02; BIOGAS V, St. CV 39; BIOGAS VI, St. CP 09 (Allen, Morgan, 1981).

DISTRIBUTION: North Atlantic, Pacific Ocean.

DEPTH RANGE: 678–3806 m.

***Myonera* sp.**

*Myonera* sp. — Allen, 2008: 145.

LOCALITIES: BIOGAS IV, St. DS 56 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 4050 m.

**Genus *Rhinoclama* Dall et Smith  
in Dall, 1886**

Type species: *Neaera philippinensis* Hinds, 1843 sensu Adams 1861 = *Cuspidaria (Rhinoclama) adamsi* Morgan et Heppell, 1981.

***Rhinoclama abrupta* (Allen et Morgan, 1981)**

*Cuspidaria (Rhinoclama) abrupta* Allen, Morgan, 1981: 479, figs 42–45; Allen, 2008: 137; *Cuspidaria (Rhinoclama) abrupta* — Poutiers, Bernard, 1995: 155.

LOCALITIES: “Chain”, St. 318 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic, Namibia Basin.

DEPTH RANGE: 619–2505 m.

***Rhinoclama nitens* (Locard, 1898)**

*Cuspidaria nitens* Locard, 1898: 181, pl. 9: 12–17; *Cuspidaria (Rhinoclama) nitens* — Poutiers, Bernard, 1995: 162.

LOCALITIES: “Travailleur” 1881, St. 1; 1882, St. 44 (Locard, 1898).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 905–2200 m.

***Rhinoclama notabilis* (Jeffreys, 1876)**

*Neaera notabilis* Jeffreys, 1876c: 497; *Neaera filocarinata* Smith, 1885: 44, pl. 10: 5; *Leiomya (Rhinoclama) notabilis* — Dall, 1886: 300; *Cuspidaria filocarinata* — Locard, 1898: 117; Clarke, 1962: 71; *Cuspidaria (Cardiomya) sulcifera* — Dautzenberg, 1927: 343 partim (non Jeffreys); *Cuspidaria testai* Knudsen, 1970: 154, text-fig. 112, pl. 16: 13; *Cuspidaria (Rhinoclama) notabi-*

*lis* — Allen, Morgan, 1981: 481, figs 46–48; *Rhinoclama notabilis* — Allen, 2008: 144 ff.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876c); “Princesse Alice”, 1910, St. 2964 (Dautzenberg, 1927; Knudsen, 1970); POLYGAS, St. DS 22, DS 23; BIOGAS II, DS 30; BIOGAS III, St. DS 41, DS 45, CV 23, CV 27; BIOGAS IV, St. DS 55, DS 56, DS 57, DS 60; BIOGAS V, St. DS 66, CV 41; BIOGAS VI, St. DS 75, DS 76, CP 09, CP 14 (Allen, Morgan, 1981); “Chain”, St. 325, 330; INCAL, St. DS 14, DS 16 (Allen, 2008).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 1100–4632 m.

### ***Rhinoclama semistrigosa* (Jeffreys, 1882)**

*Neaera semistrigosa* Jeffreys, 1882a: 941, pl. 71: 5; *Cuspidaria (Rhinoclama) semistrigosa* — Poutiers, Bernard, 1995: 166.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1882a).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 330–2239 m

### ***Rhinoclama teres* (Jeffreys, 1882)**

*Neaera teres* Jeffreys, 1882a: 939, pl. 71: 2; Smith, 1885: 50, pl. 10: 3, 3b; *Cuspidaria teres* — Dautzenberg, 1889: 88; *Cuspidaria (Rhinoclama) teres* — Poutiers, Bernard, 1995: 167; *Vulcanomya teres* — Nordsieck, 1969: 173, pl. 25: 98.50; *Cuspidaria inflata* — Salas, 1996: 74, figs 121, 122 (non Jeffreys); *Rhinoclama (Rhinoclama) teres* — Krylova, 1994: 58, fig. 2.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1882a).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 252–3000 m.

### **Genus *Tropidomya* Dall et Smith in Dall, 1886**

Type species: *Neaera abbreviata* Forbes, 1843.

### ***Tropidomya abbreviata* (Forbes, 1844)**

*Neaera abbreviata* Forbes, 1844: 75; *Cuspidaria abbreviata* — Ardovini, Cossignani, 1999: 98, fig.; *Cuspidaria (Tropidomya) abbreviata* — Allen, Morgan, 1981: 486, figs 51–52; Allen, 2008: 130 ff; *Cuspidaria (Tropidomya) abbreviata* — Dautzenberg, 1927: 340; Salas, 1996: 76, figs 129–130; Poutiers, Bernard, 1995: 155.

LOCALITIES: BIOGAS IV, St. DS 63; “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 125–4632 m.

## **Family Halonymphidae**

### **Genus *Halonympha* Dall et Smith in Dall, 1886**

Type species: *Neaera claviculata* Dall, 1881.

### ***Halonympha atlanta* Allen et Morgan, 1981**

*Halonympha atlanta* Allen, Morgan, 1981: 494, fig. 60; Allen, 2008: 137.

LOCALITIES: “Chain” St. 318 (Allen, 2008).

DISTRIBUTION: North Atlantic to Angola Basin.

DEPTH RANGE: 2505–3128 m.

### ***Halonympha depressa* (Jeffreys, 1882)**

*Neaera depressa* Jeffreys, 1882a: 940, pl. 71: 3; *Cuspidaria depressa* — Locard, 1898: 183; Clarke, 1962: 71; *Halonympha depressa* — Allen, Morgan, 1981: 490, figs 55–59; Poutiers, Bernard, 1995: 161; Salas, 1996: 76, figs 139–140; Allen, 2008: 134 ff.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1882a); “Travailleur” 1881, St. 1; 1882: St. 43 (Locard, 1898); BIOGAS II, St. DS 33; “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic, Mediterranean.

DEPTH RANGE: 164–4632 m.

## **Family Protocuspidariidae**

### **Genus *Protocuspidaria***

#### **Allen et Morgan, 1981**

Type species: *Protocuspidaria verityi* Allen et Morgan, 1981.

### **Subgenus *Bidentaria* Allen et Morgan, 1981**

Type species: *Protocuspidaria (Bidentaria) atlantica* Allen et Morgan, 1981.

### ***Protocuspidaria (Bidentaria) atlantica* Allen et Morgan, 1981**

*Protocuspidaria (Bidentaria) atlantica* Allen, Morgan, 1981: 499, figs 64–67.

LOCALITIES: BIOGAS VI, St. DS 78, CP 17 (Allen, Morgan, 1981).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1150–4706 m.

### ***Protocuspidaria (Bidentaria) colpodes* (Dautzenberg et Fischer, 1897)**

*Cuspidaria colpodes* Dautzenberg, Fischer, 1897: 223, pl. 7: 3–4; *Protocuspidaria colpodes* — Salas, 1996: 76, figs 123–124.

LOCALITIES: BALGIM, St. CP 68 (Salas, 1996).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 1530–2035 m.

### **Subgenus *Edentaria* Allen et Morgan, 1981**

Type species: *Protocuspidaria (Edentaria) simplis* Allen et Morgan, 1981.

### ***Protocuspidaria (Edentaria) ruginosa* (Jeffreys, 1882)**

*Neaera ruginosa* Jeffreys, 1882a: 942, pl. 71: 7; *Cuspidaria ruginosa* — Locard, 1898: 182; *Protocuspi-*

*daria* (*Edentaria*)? *ruginosa* — Poutiers, Bernard, 1995: 166.

LOCALITIES: “Porcupine” 1870, St. 17 (Jeffreys, 1882a); “Travailleur” 1881, St. 1 (Locard, 1898).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 250–3400 m.

### ***Protocuspидaria* (*Edentaria*) *simplis***

#### **Allen et Morgan, 1981**

*Protocuspидaria* (*Edentaria*) *simplis* Allen, Morgan, 1981: 498, fig.63; Allen, 2008: 137 ff.

LOCALITIES: BIOGAS I, St. DS 11; POLYGAS, St. DS 15, DS 18; BIOGAS IV, St. DS 55, DS 60, KR 33 (Allen, Morgan, 1981); “Chain”, St. 318, 330 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1624–4825 m.

### **Subgenus *Protocuspидaria***

#### **Allen et Morgan, 1981**

### ***Protocuspидaria* (*Protocuspидaria*) *verityi***

#### **Allen et Morgan, 1981**

*Protocuspидaria* (*Protocuspидaria*) *verityi* Allen, Morgan, 1981: 496, figs 61, 62; Allen, 2008: 144.

LOCALITIES: BIOGAS I, St. DS 11; POLYGAS, St. DS 16; BIOGAS III, St. DS 35, DS 36; BIOGAS IV, St. DS 51, DS 52, DS 54, DS 58, DS 59, DS 62, CV 38, CP 01; BIOGAS VI”, St. DS 77, DS 78, CP 08, CP 09 (Allen, Morgan, 1981); “Chain”, St. 325 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 943–4706 m.

### ***Protocuspидaria* sp.**

*Protocuspидaria* sp. — Allen, 2008: 149 ff.

LOCALITIES: INCAL, St. DS 11, DS 14 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 4254–4823 m.

### **Family Cetoconchidae**

#### **Genus *Cetoconcha* Dall, 1886**

Type species: *Lyonsia bulla* Dall, 1878.

### ***Cetoconcha* *braziliensis***

#### **Allen et Morgan, 1981**

*Cetoconcha* *braziliensis* Allen, Morgan, 1981: 521, figs 84–87.

LOCALITIES: BIOGAS IV, St. DS 61 (Allen, Morgan, 1981).

DISTRIBUTION: West and East Atlantic.

DEPTH RANGE: 2250–3730 m.

### ***Cetoconcha* *transversa* (Locard, 1898)**

*Verticordia* *transversa* Locard, 1898: 201, pl. 10: 1–4; Clarke, 1962: 70; Allen, Turner, 1974: 531; *Cetoconcha*

*transversa* — Poutiers, 1983: 283, figs 1a–b; Poutiers, Bernard, 1995: 168.

LOCALITIES: “Talisman” 1883, St. “175” = 149 (Locard, 1898).

DISTRIBUTION: Northeast Atlantic, West Indian Ocean (Poutiers, 1983).

DEPTH RANGE: 3700–4165 m.

### ***Cetoconcha* sp.**

*Cetoconcha* sp. — Allen, 2008: 143.

LOCALITIES: “Chain”, St. 323 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 3338 m.

### **Family Poromyidae**

#### **Genus *Cetomya* Dall, 1889**

Type species: *Poromya elongata* Dall, 1886.

### ***Cetomya* *tornata* (Jeffreys, 1876)**

*Pecchiola* *tornata* Jeffreys, 1876c: 494; *Poromya sublevis* Verrill, 1884: 221, pl. 32: 21; Dall, 1889: 68, pl. 65: 128; Clarke, 1962: 70; *Verticordia* *tornata* — Smith, 1885: 170, pl. 25: 9; Pelseneer, 1888: 10; Locard, 1898: 200; *Poromya* *tornata* — Dall, 1889: 68; Knudsen, 1967: 332; Knudsen, 1970: 124, text-figs 82–84, pl. 14: 9; Allen, Morgan, 1981: 503, figs 68–77; Poutiers, 1983: 282, pl. 17: 1–3; Allen, 2008: 134 ff; *Poromya microdonta* Dall, 1890: 290, pl. 8: 6; *Poromya sublevis* var. *microdonta* — Verrill, Bush, 1898: 813, pl. 76: 1–2, pl. 87: 1; *Poromya* (*Cetoconcha*) *tornata* — Smith, 1895: 11; *Poromya* (*Cetoconcha*) *isocardioides* Dautzenberg, Fischer, 1897: 230, pl. 7:17–20; Dautzenberg, 1927: 351, pl. 9: 22–25; *Poromya romanchensis* Odhner, 1960: 375, pl. 1: 4, 5, pl. 2: 22, 23; *Poromya* (*Cetomya*) *tornata* — Clarke, 1962: 70.

LOCALITIES: “Valorous”, St. 16 (Jeffreys, 1876c); “Princess Alice” 1896, St. 22 (652), 119 (749) 120 (Dautzenberg, Fischer, 1897; Dautzenberg, 1927); “Talisman” 1883, St. “131” = 144, “134” = 147, “135” = 149 (Locard, 1898); POLYGAS, St. DS 15, DS 21; BIOGAS V, St. CV 41; BIOGAS VI, St. DS 76, CP 13, CP 16, CP 17, CP 18 (Allen, Morgan, 1981); INCAL, St. DS 14, DS 16; “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Atlantic, West and Central Indian Ocean.

DEPTH RANGE: 2085–5300 m.

### **Genus *Poromya* Forbes, 1844**

Type species: *Poromya anatinooides* Forbes, 1844 = *Corbula granulata* Nyst et Westendorp, 1839.

### ***Poromya* *granulata***

#### **(Nyst et Westendorp, 1839)**

*Corbula* *granulata* Nyst, Westendorp, 1839: 6, pl. 3: 3; *Poromya rotundata* Jeffreys, 1876c: 494; Clarke, 1962: 70; *Poromya granulata* — Jeffreys, 1882a: 936; Dautzenberg, Fischer, 1897: 229; Locard, 1898: 196; Dautzenberg, 1927: 351; Allen, Morgan, 1981: 515, figs 78–94,

96; Salas, 1996: 72, figs 106–108; Ardovini, Cossignani, 1999: 97, fig.; Poutiers, Bernard, 1995: 160, 166; Allen, 2008: 138.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876c); INCAL, St. DS 10 (Allen, 2008).

DISTRIBUTION: North Atlantic, Mediterranean.

DEPTH RANGE: 30–2719 m.

### ***Poromya* sp.**

*Poromya* sp. — Allen, 2008: 143 ff.

LOCALITIES: POLYGAS, St. DS 21, DS 22; “Chain”, St. 323 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 3338–4190 m.

## **Family Lyonsiellidae**

### **Genus *Laevicordia* Seguenza, 1876**

Type species: *Verticordia orbiculata* Seguenza, 1876.

#### ***Laevicordia horrida* Allen et Turner, 1974**

*Laevicordia horrida* Allen, Turner, 1974: 507, figs 98–100; Allen, 2008: 153.

LOCALITIES: “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 2862–4632 m.

#### ***Laevicordia sinuosa* (Jeffreys, 1882)**

*Pecchiolia sinuosa* Jeffreys, 1882a: 932, pl. 70: 5; *Laevicordia sinuosa* — Poutiers, Bernard, 1995: 166.

LOCALITIES: The species was recorded by Poutiers and Bernard (1995) as occurring in the North Atlantic and Mediterranean at depths between 1200 and 2500 m, but there are no precise station records.

DISTRIBUTION: North Atlantic, Mediterranean.

DEPTH RANGE: 1200–2500 m.

#### ***Laevicordia smidti* (Friele, 1886)**

*Lyonsiella jeffreysii* Smith, 1885: 73, pl. 25: 1 (non Friele, 1879); Dautzenberg, Fischer, 1897: 228; *Lyonsiella smidti* Friele, 1886: 38 pl. 12: 15–16 (replacement name for *L. jeffreysii* Smith); Soot-Ryen, 1966: 24, pl. 2: 27; Allen, Turner, 1974: 442, figs 37–42; Allen, 2008: 153; *Lyonsiella smithi* Dautzenberg, 1927: 348 (replacement name for *L. jeffreysii* Smith); *Laevicordia smidti* — Poutiers, Bernard, 1995: 166.

LOCALITIES: “Princesse Alice” 1896, St. 124 (Dautzenberg, Fischer, 1897); “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 3300–4632 m.

### **Genus *Lyonsiella* G.O. Sars, 1872**

Type species: *Pecchiolia abyssicola* G.O. Sars, 1872.

#### ***Lyonsiella abyssicola* (G.O. Sars, 1872)**

*Pecchiolia abyssicola* G.O. Sars, 1872: 25, pl. 3: 21–43; Jeffreys, 1876c: 494; Jeffreys, 1882a: 931; *Lyonsiella abyssicola* — Dautzenberg, 1927: 349; Soot-Ryen, 1966: 25, pl. 3: 31; Allen, Turner, 1974: 409, 524, figs 1–17, 19–23, 25; Richling, 2000: 73, figs 81, 82; Salas, 1996: 81, fig. 151.

LOCALITIES: “Valorous”, St. 12 (Jeffreys, 1876c); “Porcupine”, 1870, St. 17 (Jeffreys, 1882a).

DISTRIBUTION: Arctic Ocean, North Atlantic.

DEPTH RANGE: 38–3909 m.

#### ***Lyonsiella ? gibbosa* (Jeffreys, 1876)**

*Pecchiolia gibbosa* Jeffreys, 1876c: 494.

REMARKS: This species has not been discussed after its description. Without examination of the type material its systematic position remains doubtful. We include it here only tentatively in *Lyonsiella*.

LOCALITIES: “Valorous”: St. 12 (Jeffreys, 1876c).

DISTRIBUTION: Central North Atlantic.

DEPTH RANGE: 2639 m.

#### ***Lyonsiella perplexa* Allen et Turner, 1974**

*Lyonsiella perplexa* Allen, Turner, 1974: 437, figs 32–34; Allen, 2008: 153.

LOCALITIES: “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 2862–4632 m.

#### ***Lyonsiella subquadrata* (Jeffreys, 1882)**

*Pecchiolia subquadrata* Jeffreys, 1882a: 932, pl. 70:3; Jeffreys, 1884: 146; *Lyonsiella subquadrata* — Verrill, Bush, 1898: 817, pl. 87: 3; Dautzenberg, 1927: 349; Soot-Ryen, 1966: 25, pl. 3: 34; Allen, Turner, 1974: 432, 525, figs 26–31; Salas, 1996: 81, figs 149–150; Allen, 2008: 153.

LOCALITIES: “Porcupine” 1869, St. 17 (Jeffreys, 1884); “Porcupine” 1870, St. 17 (Jeffreys, 1882a); BALGIM, St. CP 68 (Salas, 1996); “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 298–4632 m.

## **Genus *Policordia***

### **Dall, Bartsch et Rehder, 1938**

Type species: *Policordia diomedea* Dall, Bartsch et Rehder, 1938.

#### ***Policordia atlantica* Allen et Turner, 1974**

*Policordia atlantica* Allen, Turner, 1974: 484, figs 79–83; Allen, 2008: 128 ff.

LOCALITIES: INCAL, St. DS 01; POLYGAS, St. DS 25; BIOGAS IV, St. DS 58, DS 64, DS 62 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 458–2775 m.

***Policordia densicostata* (Locard, 1898)**

*Verticordia densicostata* Locard, 1898: 202, pl. 10: 5–8; Clarke, 1962: 69; *Policordia densicostata* — Soot-Ryen, 1966: 21, pl. 2: 22; Allen, Turner, 1974: 478, figs 71–78; Allen, 2008: 136 ff.; *Polycordia densicostata* — Salas, 1996: 81.

LOCALITIES: BALGIM, St. CP 69 (Salas, 1996); “Chain”, St. 316; INCAL, St. DS 05 (Allen, 2008).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 2085–2503 m.

***Policordia gemma* (Verrill, 1880)**

*Lyonsiella gemma* Verrill, 1880: 396; *Pecchiolia insculpta* Jeffreys, 1882a: 932, pl. 70: 4; *Pecchiolia gemma* — Verrill, 1884: 258, pl. 30: 7–8; *Policordia gemma* — Allen, Turner, 1974: 494, figs 84–89; Soot-Ryen, 1966: 22, text-fig. 13, pl. 1: 8–9, pl. 2: 24; *Policordia insculpta* — Soot-Ryen, 1966: 24, pl. 1: 10, pl. 2: 25; *Policordia gemma* — Janssen, 1989: 270; Poutiers, Bernard, 1995: 160; Salas, 1996: 81, figs 109–110; Allen, 2008: 128 ff; *Verticordia insculpta* — Locard, 1898: 206; Dautzenberg, 1927: 347; *Laevicordia gemma* — Ardovini, Cossignani, 1999: 97, fig.

LOCALITIES: “Porcupine” 1869, St. 22 (Jeffreys, 1882a); “Princesse Alice” 1905, St. 2133 (Dautzenberg, 1927); “Travailleur” 1882, St. 50 (Locard, 1898); “Meteor” 5, St. 42 (Janssen, 1989); INCAL, St. DS 02, DS 15; POLYGAS, St. DS 15, DS 18, DS 20, DS 22; BIOGAS I, St. DS 13; BIOGAS IV, St. DS 51, DS 55, DS 61; BIOGAS V, St. DS 66; BIOGAS VI, St. DS 74 (Allen, 2008).

DISTRIBUTION: North Atlantic, Mediterranean.

DEPTH RANGE: 73–4226 m.

***Policordia insolita* Allen et Turner, 1974**

*Policordia insolita* Allen, Turner, 1974: 502, figs 95–96; Allen, 2008: 153.

LOCALITIES: “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 1546–4632 m.

***Policordia jeffreysi* (Friele, 1879)**

*Lyonsiella jeffreysi* Friele, 1879: 269; *Lyonsiella jeffreysi* — Friele, 1886: 38, pl. 12: 15, 16; Friele, Grieg, 1901: 44; *Policordia jeffreysi* — Soot-Ryen, 1966: 20, pl. 2: 16; Allen, Turner, 1974: 500, 527, figs 92–94; Bouchet, Warén, 1979: 216 partim, fig.4; Knudsen, 1985: 101; Allen, 2008: 142.

LOCALITIES: “Vöringen”, St. 295 (Friele, 1879; Friele, Grieg, 1901); “Ingolf”, St. 112, 113; “FRAM I Drift-Ice Expedition”, St. 18 (Knudsen, 1985); “Challenger”, St. 6 (Allen, 2008).

DISTRIBUTION: Arctic Ocean, Norwegian Sea; records from the abyssal North Atlantic are possibly due to misidentifications (Bouchet, Warén, 1979).

DEPTH RANGE: 1600–3700 m.

***Policordia laevis* Allen et Turner, 1974**

*Policordia laevis* Allen, Turner, 1974: 507, fig. 97; Allen, 2008: 153.

LOCALITIES: “Chain”, St. 330 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 943–4632 m.

***Policordia* sp.**

*Policordia* sp. — Allen, 2008: 148 ff.

LOCALITIES: BIOGAS VI, St. DS 76, DS 78 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 4228–4706 m.

**Family Verticordiidae****Genus *Halicardia* Dall, 1895**

Type species: *Mytilimeria flexuosa* Verrill et Smith in Verrill, 1881.

***Halicardia carinifera* (Locard, 1898)**

*Verticordia carinifera* Locard, 1898: 208, pl. 10: 9–13; Allen, Turner, 1974: 528; *Halicardia carinifera* — Poutiers, Bernard, 1995: 157.

LOCALITIES: “Talisman” 1883, St. 44 (Locard, 1898).

DISTRIBUTION: East Atlantic.

DEPTH RANGE: 2083 m.

**Genus *Spinisipella* Iredale, 1930**

Type species: *Verticordia ericia* Hedley, 1911.

***Spinisipella acuticostata* (Philippi, 1844)**

*Hippagus acuticostatus* Philippi, 1844a: 42, pl. 14: 19a–c; *Pecchiola acuticostata* — Jeffreys, 1882a: 933; *Verticordia (Pecchiola) acuticostata* — Dautzenberg, 1889: 88; *Verticordia acuticostata* — Dautzenberg, Fischer, 1897: 226; Locard, 1898: 204; Dautzenberg, 1927: 346; Salas, 1996: 76, figs 141–143; *Verticordia japonica* Allen, Turner, 1974: 529; *Spinisipella acuticostata* — Poutiers, Bernard, 1995: 143.

LOCALITIES: “Talisman” 1883, St. “136” = 150 (Locard, 1898).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 130–4255 m.

**Genus *Vertambitus* Iredale, 1930**

Type species: *Verticordia vadosa* Hedley, 1907.

***Vertambitus triangularis* (Locard, 1898)**

*Verticordia triangularis* Locard, 1898: 207, pl. 11: 1–5; Allen, Turner, 1974: 460, 531, figs 52–64; Allen, 2008: 138 ff.; *Vertambitus triangularis* — Poutiers, Bernard, 1995: 168.

LOCALITIES: “Talisman” 1883, St. “131” = 144 (Locard, 1898); “Challenger”, St. 6, 10; INCAL, St. DS 09; BIOGAS IV, St. DS 60 (Allen, 2008).

DISTRIBUTION: Atlantic.

DEPTH RANGE: 200–3862 m.



**Genus *Verticordia* Sowerby, 1844**

Type species: *Hippagus ?cardiiformis* Sowerby, 1844.

***Verticordia quadrata* Smith, 1885**

*Verticordia quadrata* Smith, 1885: 169, pl. 35, figs 8–8b; Allen, Turner, 1974: 472, figs 65, 66 (b), 67–70; Salas, 1996: 81, figs 147–148; Allen, 2008: 128 ff.

LOCALITIES: INCAL, St. DS 02, DS 06, DS 16; BIOGAS IV, St. DS 51 (Allen, 2008).

DISTRIBUTION: North Atlantic.

DEPTH RANGE: 2051–4628 m.

***Verticordia* sp.**

*Verticordia* sp. — Allen, 2008: 128ff.

LOCALITIES: INCAL, St. DS 01, DS 02; “Chain”, St. 316, 323 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2081–3338 m.

***Bivalvia inc. sed.***

“*Incerte cedis*” (sic!) sp. 1, 1a, 2, 10, 318, 323, 328, 330, 334 — Allen, 2008: 128 ff.

LOCALITIES: INCAL, St. DS 02, DS 06. DS 08; POLYGAS, St. DS 18, DS 21, DS 28; BIOGAS IV, St. DS 53, DS 54, 55, DS 56, “Chain”, St. 318, 323, 328, 330; “Challenger”, St. 10 (Allen, 2008).

DISTRIBUTION: Northeast Atlantic.

DEPTH RANGE: 2081–4659 m.

**Rejected records**

The following species have been recorded (with two exceptions) as dead shells from only single stations at depths > 2000 m. Apart from the deep records cited here, most of these species are confined to depths less than 500 m. These entities are rejected as deep-water species but are listed here for convenience.

**Family Yoldiidae*****Portlandia arctica* (Gray, 1824)**

*Portlandia arctica* — Friele, Grieg, 1901: 14.

LOCALITIES: “Vöringen”, St. 353, dead valves (Friele, Grieg, 1901).

DEPTH RANGE: 2–340 m; 2438 m.

**Family Mytilidae*****Idas simpsoni* (Marshall, 1900)**

*Adipicola simpsoni* — Allen, 2008: 135.

LOCALITIES: BIOGAS IV, DS 51, 12 living individuals (Allen, 2008).

DEPTH RANGE: 70–350 m; 2430 m.

***Modiolula phaseolina* (Philippi, 1844)**

*Mytilus phaseolinus* — Jeffreys, 1879: 567.

LOCALITIES: “Porcupine” 1870, St. 51, no data about living specimen or dead (Jeffreys, 1879).

DEPTH RANGE: 5–706 m; 2589 m.

***Musculus discors* (Linnaeus, 1767)**

*Mytilus discors* — Allen, 2008: 127.

LOCALITIES: INCAL, St. DS 02, 1 living individual (Allen, 2008).

DEPTH RANGE: 0–278 m; 2081 m.

***Perna perna* (Linnaeus, 1758)**

*Mytilus pictus* — Jeffreys, 1879: 566.

LOCALITIES: “Porcupine” 1870, St. 51, dead valves (Jeffreys, 1879).

DEPTH RANGE: 0–46 m; 2589 m.

**Family Gryphaeidae*****Neopycnodonte cochlear* (Poli, 1795)**

*Pycnodonta cochlear* — Dautzenberg, 1927: 242.

LOCALITIES: “Princess Alice”, 1901, St. 1116, no data about living specimen or dead (Dautzenberg, 1927).

DEPTH RANGE: 20–2100 m; 2165 m.

**Family Anomiidae*****Heteranomia squamula* (Linnaeus, 1758)**

*Anomia squamula* — Jensen, 1912: 5, pl. 1: 2a–d.

LOCALITIES: “Ingolf”, St. 11, 3 dead valves (Jensen, 1912).

DEPTH RANGE: 0–903 m; 2379 m.

**Family Pectinidae*****Delectopecten greenlandicus*****(Sowerby, 1842)**

*Pecten groenlandicus* — Jensen, 1912: 30.

LOCALITIES: “Ingolf”, St. 18, dead valve (Jensen, 1912).

DEPTH RANGE: 470–986 m; 2077 m.

***Mimachlamys varia* (Linnaeus, 1758)**

*Chlamys (Chlamys) varia* — Schein, 1989: 74.

LOCALITIES: INCAL, St. DS02, 7 dead valves (Schein, 1989).

DEPTH RANGE: 0–297 m; 2081 m.

***Palliolum incomparabile* (Risso, 1826)**

*Pecten incomparabilis* — Locard, 1898: 394.

LOCALITIES: “Travailleur”, 1882, St. 23, no data about living specimen or dead (Locard, 1898).

DEPTH RANGE: 10–1360 m; 2000 m.

**Family Astartidae*****Astarte borealis* (Schumacher, 1817)**

*Astarte borealis* — Jensen, 1912: 92, pl. 4: 1a–f.

LOCALITIES: “Ingolf”, St. 113, dead valve (Jensen, 1912).

DEPTH RANGE: 5–475 m; 2395 m.

***Astarte elliptica* (Brown, 1827)**

*Astarte elliptica* — Jensen, 1912: 108, pl. 4: 4a–g.

LOCALITIES: “Ingolf”, St. 113, 2 dead valves (Jensen, 1912).

DEPTH RANGE: 2–442 m; 2395 m.

***Astarte montagui* (Dillwyn, 1817)**

*Astarte montagui* — Jensen, 1912: 97, pl. 4: 2a–c.

LOCALITIES: “Ingolf”, St. 113, 5 dead valves (Jensen, 1912).

DEPTH RANGE: 1–500 m; 2395 m.

**Family Cardiidae**

***Acanthocardia aculeata* (Linnaeus, 1758)**

*Cardium aculeatum* — Jeffreys, 1881: 706.

LOCALITIES: “Porcupine”, 1870, St. 17, fragments of dead valves (Jeffreys, 1881).

DEPTH RANGE: 0–200 m; 2003 m.

***Clinocardium ciliatum* (Fabricius, 1780)**

*Cardium ciliatum* — Jensen, 1912: 79, pl. 3: 10.

LOCALITIES: “Ingolf”, St. 113, dead valve (Jensen, 1912).

DEPTH RANGE: 9–512 m; 2395 m.

***Serripes groenlandicus* (Bruguière, 1798)**

*Cardium (Serripes) groenlandicum* — Jensen, 1912: 85, pl. 3: 12a–b.

LOCALITIES: “Ingolf”, St. 113, fragments of dead valves (Jensen, 1912).

DEPTH RANGE: 1–303 m; 2395 m.

**Family Mactridae**

***Spisula elliptica* (Brown, 1827)**

*Mactra gallina* — Friele, Grieg, 1901: 38.

LOCALITIES: “Vöringen”, St. 51, dead valves (Friele, Grieg, 1901).

DEPTH RANGE: 10–200 m; 2127 m.

***Spisula subtruncata* (Da Costa, 1778)**

*Mactra subtruncata* — Jeffreys, 1882a: 923.

LOCALITIES: “Porcupine” 1869, St. 19, dead valve (Jeffreys, 1882a).

DEPTH RANGE: 0–706 m; 2489 m.

**Family Donacidae**

***Donax trunculus* Linnaeus, 1758**

*Donax trunculus* — Jeffreys, 1881: 723.

LOCALITIES: “Porcupine” 1870, St. 51, no data about living specimen or dead (Jeffreys, 1881).

DEPTH RANGE: 0–82 m; 2589 m.

***Donax venustus* Poli, 1795**

*Donax venustus* — Jeffreys, 1881: 723.

LOCALITIES: “Porcupine” 1870, St. 51, no data about living specimen or dead (Jeffreys, 1881).

DEPTH RANGE: 0–93 m; 2589 m.

**Family Ungulinidae**

***Diplodonta brocchii* (Deshayes, 1850)**

*Diplodonta orbiculata* — “Monterosato” Locard, 1898: 285, pl. 14: 8–11.

LOCALITIES: “Talisman” 1883, St. “140” = 155, no data about living specimen or dead (Locard, 1898).

DEPTH RANGE: 18–126 m; 2285 m.

***Diplodonta torelli* Jeffreys, 1876**

*Diplodonta torelli* — Jeffreys, 1876c: 493.

LOCALITIES: “Valorous”, St. 12, fragments of dead valves (Jeffreys, 1876c).

DEPTH RANGE: 18–36 m; 2639 m.

**Family Veneridae**

***Chamelea striatula* (Da Costa, 1778)**

*Venus gallina* var. *striatula* — Jeffreys, 1881: 716.

LOCALITIES: “Porcupine” 1869, St. 19, no data about living specimen or dead (Jeffreys, 1881).

DEPTH RANGE: 0–403 m; 2489 m.

***Pitar rudis* (Poli, 1795)**

*Cytherea rudis* — Locard, 1898: 238.

LOCALITIES: “Talisman”, 1883, St. “140” = 155, no data about living specimen or dead (Locard, 1898).

DEPTH RANGE: 9–1350 m; 2285 m.

**Family Petricolidae**

***Mysia undata* (Pennant, 1777)**

*Lucinopsis undata* — Jeffreys, 1881: 718.

LOCALITIES: “Porcupine”, 1869, St. 19, no data about living specimen or dead (Jeffreys, 1881).

DEPTH RANGE: 7–335 m; 2489 m.

**Family Myidae**

***Mya truncata* Linnaeus, 1758**

*Mya truncata* — Friele, Grieg, 1901: 46.

LOCALITIES: “Vöringen”, St. 353, dead valves (Friele, Grieg, 1901).

DEPTH RANGE: 0–274 m; 2438 m.

**Family Pharidae**

***Phaxas pellucidus adriaticus* Coen, 1933**

*Solen pellucidus* — Jeffreys, 1882a: 928 (non Pennant).

LOCALITIES: “Porcupine” 1870, St. 51, no data about living specimen or dead (Jeffreys, 1882a).

DEPTH RANGE: 8–150 m; 2589 m.

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