

NEAT (North East Atlantic Taxa): Scandinavian Echinodermata Check-List

compiled at TMBL (Tjärnö Marine Biological Laboratory) by:

Hans G. Hansson 1994 / small revisions until March 1995, when it for the first time was published on Internet. Republished as a pdf file March 1996 and again Aug.1998.

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Denotations: (™) = Genotype @ = Associated to * = General note

N.B.: This is one of several preliminary check-lists, covering S. Scandinavian marine animal (and partly marine protist) taxa. Some financial support from (or via) NKMB (Nordiskt Kollegium för Marin Biologi), during the last years of the existence of this organisation (until 1993), is thankfully acknowledged. The primary purpose of these checklists is to facilitate for everyone, trying to identify organisms from the area, to know which species that earlier have been encountered there, or in neighbouring areas. A secondary purpose is to facilitate for non-experts to find as correct names as possible for organisms, including names of authors and years of description. So far these checklists are very preliminary. Due to restricted access to literature there are (some known, and probably many unknown) omissions in the lists. Certainly also several errors may be found, especially regarding taxa like Plathelminthes and Nematoda, where the experience of the compiler is very rudimentary. The credibility of some other lists, containing taxa like e.g. Porifera, where, at least in certain subtaxa, taxonomic confusion seems to prevail, is certainly also suboptimal so far.

Species found in South Scandinavia, as well as from neighbouring areas, chiefly the British Isles, have been considered, as some of them may show to have a slightly more northern distribution, than what is known today. However, species with a typical Lusitanian distribution, with their northern distribution limit around France or Southern British Isles, have as a rule been omitted here, albeit a few species with probable northern limits around the British Isles are listed here until distribution patterns are better known. Arctic Taxa, known only from areas north of N Norway are probably not as well represented in this list as they should be. The compiler would be very grateful for every correction of presumptive lapses and omissions an initiated reader could make.

T. Høisæters list from 1990 (published in Sarsia) is the skeleton in this list, using some new information from different authors (including the compiler). A few taxa are added.

N.B. This document is intended to be completely unavailable regarding nomenclature within the meaning of ICZN.

ECHINODERMATA

CRINOZOA

CRINOIDEA

ARTICULATA

MILLERICRINIDA

* No species in northern European Seas.

CYRTOCRINIDA

* No species in northern European Seas.

BOURGUETICRINIDA

Bathycrinidae Bather, 1899

Bathycrinus Thomson, 1872 (TM *Bathycrinus gracilis* Thomson, 1872 - Bay of Biscay, deep water) (Direction 72 of ICZN)

B. carpenteri (Danielssen & Koren, 1877)
= *Ilycrinus carpenteri* Danielssen & Koren, 1877
Norwegian Sea basin

Rhizocrinus M. Sars, 1868 (TM *Rhizocrinus lofotensis* M. Sars - N. Norway) (Direction 72 of ICZN)

R. lofotensis M. Sars, 1868
Norway between 58-70°

Phrynocrinidae

* No Atlantic species above abyssal depths.

Porphyrocrinidae

* No Atlantic species.

ISOCRINIDA

* No East Atlantic species.

COMATULIDA

Antedonoidea Norman, 1865

Antedonidae Norman, 1865

Antedon Freminville, 1811 (TM *Antedon gorgonia* Freminville, 1811 - N. France)
(Direction 73 of ICZN)

A. bifida (Pennant, 1777)
= *A. gorgonia* Freminville
Vestfold - Egersund, British North Sea coast, from Shetland S. to 55°

A. petasus (Düben & Koren, 1846)
Kattegatt-Bohusl., Norway N. to 64°

Hathrometra A.H. Clark, 1908 (TM *Alectro* (sic!) *dentata* Say, 1825 - NE. America)

H. sarsii (Düben & Koren, 1846)
= *H. tenella* (Carpenter, 1888) non (Retzius, 1783)
= *Antedon tenella* Carpenter non (Retzius)
Bohusl., Norway N to 70 (0ksfj.)

Helioметра A.H. Clark, 1907 (TM *Alecto Eschrichtii* J. Müller, 1841 - Greenland)

H. glacialis (Owen, 1833 ex Leach MS)
= *Antedon eschrichtii* (J. Müller)
Norway S. to 70° & slope to 62°

Leptometra A.H. Clark,1908 (™ *Alecto phalangium* J. Müller,1841 - Mediterranean)

L. celtica (Barrett & McAndrew,1858)
= *L. phalangium* (Carpenter,1881) non (J. Müller)
N. coast of Scotland, N. North Sea

Poliometra A.H. Clark,1923 (™ *Antedon prolixa* Sladen - NW. Greenland)

P. prolixa (Sladen,1881)
= *Antedon prolixa* Sladen
= *Hathrometra prolixa* (Sladen)
off Norway (Slope 61-62°)

Trichometra A.H. Clark,1908 (™ *Trichometra aspera* A.H. Clark,1908 - ?)

T. cubensis (Pourtalès,1869)
= *T. aspera* A.H. Clark,1908
off W Faeroes, off S Iceland, Davis Strait

Paracomatuloidea

Atelecrinidae Bather,1899

Atelecrinus P.H. Carpenter,1881 (™ *Atelecrinus balanoides* P.H. Carpenter,1881 - Lesser Antilles)

A. balanoides P.H. Carpenter,1881
= *Atelecrinus helgae* A.H. Clark,1913
off SW Faeroes, off W Ireland

Comasteroidea

* No species in northern European Seas.

Mariametroidea

* No species in northern European Seas.

Tropiometroidea

* No species in northern European Seas.

Notocrinoidea

* No species in northern European Seas.

INADUNATA † Extinct

FLEXIBILIA † Extinct

CAMERATA † Extinct

CYSTOIDEA † Extinct

EOCRINOIDEA Jækel,1918 † Extinct

PARACRINOIDEA † Extinct

PARABLASTOIDEA † Extinct

BLASTOIDEA

† Extinct

ASTEROZOA

SOMASTEROIDEA

* No Atlantic species.

ASTEROIDEA de Blainville,1830

PAXILLOSIDA Perrier,1884

Astropectinidae Gray,1840

Astropecten Gray,1840 (TM *Asterias aranciaca* Linnaeus,1758 - Mediterranean)

A. irregularis irregularis (Pennant,1777)

Öresund & Belt Sea-Kattegatt-Bohusl., Norway north to W Finnmark

Bathybiaster Danielssen & Koren,1883 (TM *Astropecten pallidus* Danielssen & Koren,1877 - Norw. Sea)

B. vexillifer (Thomson,1873)

= *B. pallidus* (Danielssen & Koren)

= *B. robustus* (Verrill,1884)

= *Ilyaster mirabilis* Danielssen & Koren,1884

Norwegian Sea basin

Leptychaster E.A. Smith,1876 (TM *Leptychaster kerguelensis* E.A. Smith,1876 - S. Indian Ocean)

= *Leptoptychaster* E.A. Smith,1879

L. arcticus (M. Sars,1851)

Norway S. to Sognefjord area

Persephonaster Wood-Mason & Alcock,1891 (TM *Persephonaster croceus* Wood-Mason & Alcock,1891 - ?Indian Ocean)

P. patagiatus (Sladen,1889)

= *Psilaster patagiatus* Sladen,1889

off SW Iceland, Rockall Trough, Porcupine Seabight in deep water

P. sphenoplax (Bell,1892)

= *Astropecten sphenoplax* Bell,1892

= *Psilasteropsis humilis* Koehler,1907

off NW Ireland in ?914 m

Plutonaster Sladen,1885 (TM *Archaster bifrons* Thomson - North Atlantic)

P. bifrons (Thomson,1873)

Faeroe Channel in 1000 m

Psilaster Sladen,1885 (TM *Astropecten andromeda* J. Müller & Troschel - Kattegat)

P. andromeda andromeda (J. Müller & Troschel,1842)

Kattegatt-Bohusl., whole coast of Norway

Luidiidae Sladen,1889

Luidia Forbes,1839 (TM *Luidia fragilissima* Forbes,1839 - the Irish Sea)
(Opinion 129 of ICZN)

L. ciliaris (Philippi,1837)
= *L. fragilissima* Forbes (Cf. opinion 129 of ICZN)
Bohusl. (outer archipelago), Norway N. to 62.5°

L. sarsii sarsii Düben & Koren,1845
Öresund-Kattegat-Bohusl., Norway N. to 64° (Trondheimsfj.)

Goniopectinidae Verrill,1889

Ctenodiscus J. Müller & Troschel,1842 (TM *Asterias polaris* Sabine,1824 - Arctic
Canada)

C. crispatus (Retzius,1805)
= *C. corniculatus* Perrier,1875
= *C. polaris* (Sabine)
Norway S. to 62.5° (Sogn area)

Radiasteridae Fisher,1916

Radiaster Perrier,1881 (TM *Radiaster elegans* Perrier,1881 - West Indies)

R. tizardi (Sladen,1882)
= *Mimaster tizardi* Sladen,1882
Faeroe Channel, Hebridean Slope, Rockall Trough, off SW Ireland

Porcellanasteridae

* No species in European Seas above abyssal depths.

NOTOMYOTIDA Ludwig,1910

Benthopectinidae Verrill 1894

Benthopecten Verrill,1884 (TM *Benthopecten spinosus* Verrill,1884 - off Atlantic
USA)

B. spinosissimus (Sladen,1889)
= *Pararchaster spinosissimus* Sladen,1889
off S & SW Iceland

Cheiraster Studer,1883 (TM *Cheiraster gazellae* Studer,1883 - non-Atlantic)

C. (C.) sepitus (Verrill,1885)
= *Archaster sepitus* Verrill,1885
off W Iceland

Pectinaster Perrier,1885 (TM *Pectinaster filholi* Perrier,1885 - Atlantic)

P. filholi Perrier,1885
off S Iceland, Rockall Trough

Pontaster Sladen,1885 (TM *Astropecten tenuispinus* Düben & Koren - W. Norway)

P. tenuispinus (Düben & Koren,1846)

* Often divided into a 'warm-water' and a 'cold-water' form. If the latter is given a name, it should probably be: *P. platynota* Sladen,1889
Bohusl., Norway S. to 58°

VALVATIDA Perrier,1884

Chaetasteridae Sladen,1889

* No species N of Ireland

Odontasteridae Verrill,1899

* No species N of Ireland

Ganeriidae Sladen,1889

* No species in N Europe

Goniasteridae Forbes,1841

Ceramaster Verrill,1899 (™ *Asterias granularis* Retzius,1783 - Norway?)

C. granularis granularis (O.F. Müller,1776)

= *Pentagonaster granularis* (O.F. Müller)

Bohusl., whole Norwegian coast,

Hippasteria Gray,1840 (™ *Asterias phrygiana* Parelius - Norway)

H. phrygiana phrygiana (Parelius,1768)

Kattegatt-Bohusl., whole Norwegian coast

H. insignis Dons,1937

Trondheimsfjord, Dons,1937

Peltaster Verrill,1899 (™ *Peltaster hebes* Verrill,1899 - West Indies)

P. placenta (J. Müller & Troschel,1842)

= *Goniodiscus placenta* Müller & Troschel,1842

= *Peltaster hebes* Verrill

= *Goniaster nidarosiensis* Storm,1881

Hardangerfj., Sognefj., Trondheimsfj. Nord-Trøndelag, Iceland & Trøndelag S. to the equator

Pseudarchaster Sladen,1889 (™ *Pseudarchaster discus* Sladen,1889 - S. Chile)

P. parelii (Düben & Koren,1846)

= *Plutonaster pareli* (Düben & Koren)

Bohusl., whole Norwegian coast

Ophidiasteridae Verrill,1870

* Not in seas around northern Europe.

Mithrodiidae Viguiet,1878

* Not in European Seas.

Asteropseidae Hotchkiss & Clark,1976

* Not in European Seas.

Oreasteridae Fisher,1911

* Not in European Seas.

Poraniidae Perrier,1893

Chondraster Verrill,1895 (™ *Porania grandis* Verrill,1878 - Cape Cod)

C. grandis (Verrill,1878)

off SW Faeroes, Wyville Thomson Ridge, Lousy Bank

Marginaster Perrier,1881 (™ *M. pectinatus* Perrier,1881 - off W Cuba)

= *Cheilaster* Bell,1893

= *Poranisca* Verrill,1914

M. capreensis (Gasco,1876)

= *Asteropsis capreensis* Gasco,1876

off NW Ireland, Irish Sea, Mediterranean

Porania Gray,1840 (™ *Porania gibbosa* Gray,1840 - Britain)

P. (Porania) pulvillus pulvillus (O.F. Müller,1776)

= *P. gibbosa* Gray (Nomen nudum)

Bohusl., Norway N. to southern Troms

Subg.: ***Pseudoporania*** Dons,1936 (™ *Pseudoporania stormi* Dons,1936 - Trondheimsfj.)

P. (Pseudoporania) stormi (Dons,1935)

= *Pseudoporania stormi* Dons

Bohusl.*, Norway at Bergen*, Trondheimsfjord & S Troms (*H.G. Hansson 1996)

Poraniomorpha Danielssen & Koren,1881 (™ *Poraniomorpha rosea* Danielssen & Koren - N. North Sea)

= *Culcitopsis* Verrill,1914

P. (Poraniomorpha) bidens Mortensen,1932

cold Faeroe Channel, Arctic Seas

P. (Poraniomorpha) hispida hispida (M. Sars,1872)

= *Goniaster hispidus* M. Sars,1872

= *Lasiaster hispidus* (M. Sars)

Bohusl., whole coast of Norway

P. (Poraniomorpha) hispida rosea Danielssen & Koren,1881

= *P. rosea* Danielssen & Koren

off Norway from Cape Stadt area to deeper parts of Skagerrak (Mandal area), Wyville Thomson Ridge to Biscay

P. (Poraniomorpha) tumida (Stuxberg,1878)

= *Rhegaster tumidus* (Stuxberg)

= *Sphaeriaster bjoerklykkei* (Dons,1938) (type locality: NE of Shetlands; Clark & Downey,1992)

East Finnmark, lower slope off Norway S. to 62° (Cape Stadt area), extending S. to near the Faeroe Channel

Subg.: ***Culcitopsis*** Verrill,1914 (™ *Culcita borealis* Süßbach & Breckner,1911 - Shetlands)

P. (Culcitopsis) borealis (Süßbach & Breckner,1911)

= *Culcita borealis* Süßbach & Breckner,1911

= *Sphaeriaster berthae* (Dons,1938)
= *Sphaeraster berthae* Dons,1938)
from South-Trøndelag and northwards along Norway

Tylaster Danielssen & Koren,1881 (TM *Tylaster willei* Danielssen & Koren - Norw. Sea)

T. willei Danielssen & Koren,1881
Norwegian Sea basin,

Sphaerasteridae Schöndorf,1906
* Not recorded north of the Biscay.

Asterinidae Gray,1840

Anseropoda Nardo,1834 (TM *Asterias placenta* Pennant - Britain)
= *Palmipes* Schultze,1760 (Rejected in opinion 636 of the ICZN)

A. placenta (Pennant,1777)
= *Palmipes membranaceus* (Retzius,1783)
British North Sea coasts & N. North Sea, Shetlands, Faeroes

Asterina Nardo,1834 (TM *Asterina minuta* Nardo,1834 - ?)

A. gibbosa (Pennant,1777)
= *A. minuta* Nardo,1834
?Shetlands, S & W British Isles, Normandy

A. phylactica Emson & Crump,1979
SW Britain

Tremaster Verrill,1880 (TM *Tremaster mirabilis* Verrill - NW. Atlantic)

T. mirabilis Verrill,1880
Norway at 69°(southern Troms), SE Greenland, SE Iceland, Barents Sea

SPINULOSIDA Perrier,1884

Echinasteridae Verrill,1870

Echinaster J. Müller & Troschel,1840 (TM *Asterias seposita* Retzius,1783 - Mediterr.)

E. (Echinaster) sepositus sepositus (Retzius,1783)
N Brittany & Channel Islands south to Mauretania & Cape Verde

Henricia Gray,1840 (TM *Asterias oculata* Pennant - Irish Sea)
= *Cribella* Forbes,1841 non L. Agassiz,1837
= *Cribella* Lütken,1857 non L. Agassiz,1836

H. eschrichti (J. Müller & Troschel,1842)
East Finnmark,

H. lisa A.H. Clark,1949 ***ingolfi*** Madsen,1987
East Finnmark

H. oculata (Pennant,1777)
= *H. sanguinolenta* (O.F. Müller) (p.p.)

British North Sea coast, Shetlands, all Scotland & Ireland around Wales into the western English Channel

H. perforata (O.F. Müller,1776)
= *H. sanguinolenta* (O.F. Müller) (p.p.)
= *H. sanguinolenta* : Rasmussen,1965 non (O.F. Müller)
= *H. scabrior* (Michailovskij,1903) sensu Hedning 1935
= *H. scrobiculata* (Danielssen & Koren,1884)
Öresund & Belt Sea-Kattegatt-Bohusl., whole Norwegian coast

H. pertusa (O.F. Müller,1776)
= *H. sanguinolenta* (O.F. Müller) (p.p.)
Bohusl., Oslofj., 58-70° (North Cape), Faeroe Channel & Rockall Trough

H. sanguinolenta (O.F. Müller,1776)
= *H. perforata* : Rasmussen,1965 non (O.F. Müller)
Norway S. to 58° (Norwegian SW coast) but perhaps also the Norwegian Skagerrak coast

H. spongiosa (O. Fabricius,1780)
Greenland to Newfoundland

VELATIDA Perrier,1893

Solasteridae Viguiet,1878

Crossaster J. Müller & Troschel,1840 (™ *Asterias papposa* Linnaeus - "in O. Europaeo et Asiatico")
= *Solaster* Forbes,1839 (p.p.)

C. papposus (Linnaeus,1767)
= *Solaster* (*Crossaster*) *papposus* (Linnaeus)
Öresund & Belt Sea-Kattegatt-Bohusl., whole Norwegian coast

C. squamatus (Döderlein,1900)
= *Solaster papposus* var. *squamata* Döderlein
= *Solaster affinis* Danielssen & Koren,1877 non (Brandt,1835)
= *Solaster squamatus* Döderlein
NW - NE Finnmark, Slope off Norway S. to 60°

Lophaster Verrill,1878 (™ *Solaster furcifer* Düben & Koren - W. Norway)

L. furcifer (Düben & Koren,1846)
= *Solaster furcifer* Düben & Koren
Bohusl.*, Norway S. to 59° (Lysefjorden) (apparently with a gap in the distribution from 64-72°) (H.G.Hansson 1996)

Solaster Forbes,1839 (™ *Asterias endeca* Linnaeus - Norway)

S. earlli Verrill,1879
Greenland, Newfoundland, Nova Scotia, off Cape Cod

S. endeca (Linnaeus,1771)
= *Asterias rumphii* Parelius,1768 (An older unused synonym, which ICZN should reject)
Öresund-Kattegatt, Bohusl., whole coast of Norway

S. glacialis Danielssen & Koren,1881

= *S. echinatus* Storm,1888
= *S. syrtensis* Verrill,1899
Trondheimsfjorden and northwards along Norway

S. syrtensis Verrill,1894
Greenland, Nova Scotia to Cape Cod

Korethrasteridae Danielssen & Koren,1884

Korethraster Thomson,1873 (TM *Korethraster hispidus* Thomson - North Atlantic)

K. hispidus Thomson,1873
Slope 67-68.5° off Norway, Franz Joseph Land, Faeroe Channel to Biscay,

Caymanostellidae Belayaev,1974
* Not in European Seas.

Pterasteridae Perrier,1875

Diplopteraster Verrill,1880 (TM *Pteraster multipes* M. Sars - Drøbak, Norway)

D. multipes (M. Sars,1866)
= *Pteraster multipes* M. Sars
= *Retaster multipes* (M. Sars)
Oslofjorden, Norway N. to 67° or N. to E Finnmark

Hymenaster Thomson,1873 (TM *Hymenaster pellucidus* Thomson - Faeroe Channel)

H. pellucidus Thomson,1873
East Finnmark, Norwegian Sea basin, Faeroe Channel,

Pteraster J. Müller & Troschel,1842 (TM *Asterias militaris* O.F. Müller - Norway)

P. militaris (O.F. Müller,1776)
Off Bohuslän, whole coast of Norway

P. obscurus (Perrier,1891)
= *Hexaster obscurus* Perrier
NW - NE Finnmark

P. pulvillus (M. Sars,1861)
Bohusl., whole coast of Norway

Myxasteridae Perrier,1885
* Not found north of Biscay.

BRISINGIDA Fisher,1928

Brisingidae G.O. Sars,1875

Brisinga Asbjørnsen,1856 (TM *Brisinga endecacnemos* Asbjørnsen - Hardangerfjord)

B. endecacnemos Asbjørnsen,1856
Norway between 60° and NE Finnmark

Brisingella Fisher,1917 (TM *Brisinga fragilis* Fisher 1906 - Hawaii)

B. coronata (G.O. Sars,1871)

= *Brisinga coronata* G.O. Sars
Norway between 61° (Sognefi.) to 68°

Novodinia Dartnall, Pawson, Pope & B.J. Smith, 1969 (™ *Odinia semicoronata*
Perrier, 1885 - W. Africa)

N. pandina (Sladen, 1889)
= *Odinia pandina* Sladen, 1889
Faeroe Channel in 90 m

Freyellidae Downey, 1986

Freyella Perrier, 1885 (™ *Freyella spinosa* Perrier, 1885 - ?)

F. elegans (Verrill, 1884)
= *Freyella spinosa* Perrier, 1885
Greenland to W. European Basin to Angola

FORCIPULATIDA Perrier, 1884

Asteriidae Gray, 1840

Asterias Linnaeus, 1758 (™ *Asterias rubens* Linnaeus - Europe?)

A. rubens Linnaeus, 1758
S. Baltic (from Stolpe Ränna)-Öresund & Belt Sea-Kattegatt-Bohusl., Whole coast of
Norway

Icasterias Fisher, 1923 (™ *Asterias panopla* Stuxberg - Siberian Sea)

I. panopla (Stuxberg, 1878)
= *Asterias panopla* Stuxberg
North & East Finnmark

Leptasterias Verrill, 1866 (™ *Asteracanthion mülleri* M. Sars - Norway)

L. groenlandica (Steenstrup, 1857)
Greenland

L. hyperborea (Danielssen & Koren, 1883)
= *Asterias hyperborea* Danielssen & Koren
= *Asterias normani* Danielssen & Koren, 1884
Barents Sea

L. islandica Levinsen, 1887
Iceland, Faeroes

L. (Leptasterias) muelleri muelleri (M. Sars, 1846) (Op. 984, ICZN)
= *Asterias (Leptasterias) muelleri* (M. Sars)
= *L. hispida* (Forbes, 1840)
N. Kattegatt-Bohusl., Norway S. to 58° (Langesundfj.)

L. (Leptasterias) muelleri celtica Clark & Downey, 1992
E. Scotland to Durham, N Ireland, Celtic Sea

L. (Leptasterias) danica (Levinsen, 1887)
Öresund-Kattegatt-S Skagerrak

Marthasterias Jullien,1879 (™ *Marthasterias foliacea* Jullien,1879 - Adriatic Sea?)

M. glacialis (Linnaeus,1765)
= *Asterias (Marthasterias) glacialis* Linnaeus
= *M. foliacea* Jullien
Kattegatt-Bohusl., Norway N. to 70.5° (Vargsund)

Stephanasterias Verrill,1871 (™ *Asteracanthion albulus* Stimpson - Bay of Fundy)

S. albula (Stimpson,1853)
= *Stichaster albulus* (Stimpson)
= *Nanaster albulus* (Stimpson)
Barents Sea, extremely common in E Greenland

Stichastrella Verrill,1914 (™ *Asterias rosea* O.F. Müller - Norway)

S. ambigua (Farran,1913)
Lousy Bank, SW of Faeroes, Rockall Trough & Porcupine Seabight

S. rosea (O.F. Müller,1776)
= *Stichaster roseus* (O.F. Müller)
= *Stichaster arcticus* Danielssen & Koren,1883
Bohusl. - NW Finnmark

Urasterias Verrill,1909 (™ *Asteracanthion linckii* J. Müller & Troschel - Arctic)

U. linckii (J. Müller & Troschel,1842)
= *Asterias lincki* (J. Müller & Troschel)
= *Asterias gunneri* Danielssen & Koren,1883
= *Asterias stellionura* (Perrier,1869)
Norway S. to 68°

Pedicellasteridae Perrier,1884

Pedicellaster M. Sars,1861 (™ *Pedicellaster typicus* M. Sars - Norway)

P. typicus M. Sars,1861
Bohusl. - according to A. Warén (verbal communication), Norway S. to 60°
(Hardangerfj.)

Zoroasteridae Sladen,1889

Zoroaster Thomson,1873 (™ *Zoroaster fulgens* Thomson,1873 - Faeroe Channel)

Z. fulgens Thomson,1873
Faeroe Channel, Atlantic Ocean, 200-3000m,

Labidiasteridae Verrill,1914
* Not known from European Seas.

Neomorphasteridae Fisher,1923
* Not distributed northeast of west Scotland.

OPHIUROIDEA J. Müller & Troschel,1840

OEGOPHIURIDA Matsumoto
* No Atlantic species.

PHRYNOPHIURIDA

OPHIOMYXINA

Ophiomyxidae Ljungman,1867

Ophiophrixus H.L. Clark,1911 (TM *Ophiophrixus acanthinus* H.L. Clark,1911 - Japan)

O. spinosus (Storm,1881)
= *Ophiobyrsa hystericis* Lyman,1883
= *Ophiobyrsella hystericis* (Lyman)
= *Ophiobyrsella spinosa* (Storm)
Nordmøre - Trondheimsfjord - Nordland

Ophioscolex J. Müller & Troschel,1842 (TM *Ophioscolex glacialis* J. Müller & Troschel - Spitzbergen)

O. glacialis J. Müller & Troschel,1842
Whole Norwegian coast

O. purpureus Düben & Koren,1846
Norway S. to 60°

EURYALINA J. Müller & Troschel,1840

Asteronychidae Ljungman,1867

Asteronyx J. Müller & Troschel,1842 (TM *Asteronyx loveni* J. Müller & Troschel - W Sweden)

A. loveni J. Müller & Troschel,1842
Bohusl. & Skagerrak, Norway N. to 70.5° (Oksfj.)

Gorgonocephalidae Ljungman,1867

Gorgonocephalus Leach,1819 (TM *Asterias caput-medusae* Linnaeus - N. Europe)
= *Astrophyton* Schultze,1760 (Nom. rej., Op. 636, ICZN)

G. arcticus (Leach,1819)
= *G. agassizi* Stimpson,1854
E. Finnmark & slope S to 62° off Norway

G. caputmedusae (Linnaeus,1758)
= *G. linckii* (J. Müller & Troschel,1842)
Bohusl. & Skagerrak, Norway N. to 66°

G. eucnemis (J. Müller & Troschel,1842)
= *G. malmgreni* (Danielssen & Koren,1877)
Norway S. to 70°, & slope to 60° off Norway

G. Iamarckii (J. Müller & Troschel,1842)
Norway S. to 60.5°

Euryalidae J.E. Gray,1840

* No species in northern European Seas.

Asteroschematidae Verrill,1899

* No species in northern European Seas.

OPHIURIDA J. Müller & Troschel, 1840

GNATHOPHIURINA

Ophiotrichidae Ljungman, 1867

Ophiotrix J. Müller & Troschel, 1840 (™ *Asterias pentaphylla* Pennant, 1777 - Britain)

O. fragilis (Abildgaard, 1789)
= *O. pentaphylla* (Pennant)
Öresund-Kattegat-Bohusl., Norway N. to 70°

O. luetkeni Thomson, 1873
Stavanger, Shetlands, W Ireland

Ophiactidae Matsumoto, 1915

Ophiactis Lütken, 1857 (™ *Ophiactis krebsii* Lütken, 1857 - Caribbean)

O. abyssicola (M. Sars, 1861)
Arendal area - Troms

O. balli (Thompson, 1840)
Bohusl., Norway N. to 69.5° (Troms)

O. nidarosiensis Mortensen, 1920
Bergen area - Trondheimsfj. - NW Sør-Trøndelag

Ophiopholis J. Müller & Troschel, 1842 (™ *Ophiolepis (Ophiopholis) scolopendrica* J. Müller & Troschel, 1842 - Europe?)

O. aculeata (Linnaeus, 1767)
= *O. scolopendrica* (J. Müller & Troschel)
Öresund & Belt Sea-Kattegat-Bohusl., whole Norwegian coast

Ophiopus Ljungman, 1867 (™ *Ophiopus arcticus* Ljungman - Arctic)

O. arcticus Ljungman, 1867
= *Ophiaregma abyssorum* G.O. Sars, 1872
Slope off Norway S. to 62.5°

Amphiuridae Ljungman, 1867

Acrocnida Gislén, 1926 (™ *Asterias brachiata* Montagu - Britain)

A. brachiata (Montagu, 1804)
= *Amphiocnida brachiata* (Montagu)
Kattegat, Bohusl., Danish North Sea coast, British North Sea coast, central North Sea

Amphipholis Ljungman, 1867 (™ *Amphipholis januarii* Ljungman, 1867 - Brazil)

A. squamata (Delle Chiaje, 1829)
= *Amphiura elegans* (Leach, 1815) (Cf. Op. 1560, ICZN)
= *Axiognathus squamata* (Delle Chiaje)
* This species should possibly be transposed to *Axiognathus* Thomas, 1966.

Öresund-Kattegatt-Bohusl. - all Norway

A. torelli Ljungman,1871
Barents Sea (?)

Amphiura Forbes,1843 (™ *Amphiura chiajii* Forbes - Mediterranean?)
= *Ophiopeltis* Düben & Koren,1846

A. borealis (G.O. Sars,1871)
Arendal area - Troms

A. chiajei Forbes,1843
Öresund-Kattegatt-Bohusl. - Nordland

A. filiformis (O.F. Müller,1776)
Öresund-Kattegatt-Bohusl. - Nordland

A. griegi Mortensen,1920
Hardangerfj., Trondheimsfj.

A. securigera (Düben & Koren,1846)
Norway between 59.5-68°

A. sundevalli (J. Müller & Troschel,1842)
Barents Sea

A. fragilis Verrill,1885
= *Amphiura denticulata* Koehler,1898
Faeroe Channel & Greenland - Newfoundland

A. incana Lyman,1879
Ireland* (*B. Picton 1993)

Paramphiura Koehler,1895 (™ *Ophiocoma punctata* Forbes - North Sea)

P. punctata (Forbes,1841)
Central North Sea

Amphilepididae Matsumoto,1915

Amphilepis Ljungman,1867 (™ *Amphiura norvegica* Ljungman - Norway)

A. norvegica (Ljungman,1865)
Bohusl., Norway N. to 69.5° (Troms)

LAEMOPHIURINA

Ophiacanthidae Perrier,1891

Ophiacantha J. Müller & Troschel,1842 (™ *Ophiacantha spinulosa* J. Müller & Troschel,1842 - North Atlantic)

O. abyssicola G.O. Sars,1871
Norway between 60-70° (Kvænangen)

O. anomala G.O. Sars,1871
Slope 62-68° off Norway

O. bidentata (Retzius,1805)
= *O. spinulosa* J. Müller & Troschel
off Egersund - all the way northwards off Norway

O. spectabilis G.O. Sars,1871
SW Sør-Trøndelag -Trondheimsfj. - Troms

Ophiocomina Mortensen,1920 ex Koehler MS (™ *Asterias nigra* Abildgaard - North Atlantic)

O. nigra (Abildgaard,1789)
= *Ophiocoma nigru* (Abildgaard)
= *Ophiacantha danae* Mortensen,1933
Öresund-Kattegatt-Bohusl., Norway N. to 65.5°

Ophiomitrella Verrill,1899 (™ *Ophiacantha laevipellis* Lyman,1883 - Caribbean)

O. clavigera (Ljungman,1865)
= *Ophiactis clavigera* Ljungman
= *Ophiolebes claviger* (Ljungman)
Skagerrak, Norway at 61.5°

Ophiopsila Forbes,1845 (™ *Ophiopsila aranea* Forbes,1845 - SW Britain)

O. annulosa (M. Sars,1859)
W Ireland, SW Scotland

O. aranea Forbes,1845
SW Britain

Hemieuryalidae Verrill,1899
* No species in northern European Seas.

CHILOPHIURINA

Ophiuridae J. Müller & Troschel,1840

Ophiecten Lütken,1855 (™ *Ophiecten kröyeri* Lütken,1855 - Greenland)

O. gracilis (G.O. Sars,1871)
= *O. sericeum* (Forbes) (p.p.)
= *Ophioglypha gracilis* G.O. Sars,1871
= *Ophiura signata* (Verrill,1882) (p.p.)
Vestfold - NE Norway

O. sericeum (Forbes,1852)
= *O. kroeyeri* Lütken
off Bergen - E. Finnmark & Norwegian Sea basin

Ophiopleura Danielssen & Koren,1877 (™ *Ophiopleura borealis* Danielssen & Koren - Norwegian Sea)

O. borealis Danielssen & Koren,1877
Slope off Norway S. to 68° & Norwegian Sea basin

Ophiura de Lamarck,1801 (™ *Asterias ophiura* Linnaeus - Norway) (Op. 1152, ICZN)
= *Ophioglypha* Lyman,1860

O. affinis Lütken,1858
Öresund-Kattegatt-Bohusl., whole Norwegian coast

O. albida Forbes,1841
Rügen & Bornholm-Öresund & Belt Sea-Kattegatt-Bohusl., whole Norwegian coast

O. carnea Lütken,1858 ex M. Sars MS
Norway between 58° (Arendal) - 69.5° or Vadsø

O. ophiura (Linnaeus,1758)
= *O. ciliaris* (Linnaeus,1766)
= *O. ciliata* (Retzius,1783) non (O.F. Müller,1776)
= *O. texturata* de Lamarck,1816 (Op. 1152, ICZN)
Öresund & Belt Sea-Kattegatt-Bohusl., Norway N. to 68°

O. robusta (Ayres,1851)
= *O. squamosa* (Lütken,1858)
Öresund & Belt Sea-Kattegatt-Bohusl.-Skagerrak, whole Norwegian coast

O. sarsii Lütken,1858
Öresund-Kattegatt-Bohusl., whole Norwegian coast

O. signata (Verrill,1882)
W Britain in deep water

Ophiomusium Lyman,1869 (™ *O. eburneum* Lyman,1869 - Caribbean)

O. lymani Wyv. Thomson,1873
W Britain in deep water

Ophioleucidae Matsumoto,1915
* No species in northern European Seas.

Ophiocomidae Ljungman,1867
* No species in northern European Seas.

Ophionereididae
* No species in northern European Seas.

Ophiodermatidae Ljungman,1867
* No species in northern European Seas.

ECHINOZOA

ECHINOIDEA Bronn,1860

PERISCHOECHINOIDEA

BOTHRIOCIDAROIDA † Extinct

ECHINOCYSTITOIDA † Extinct

PALAECHINOIDA † Extinct

CIDAROIDA Duncan,1890

Cidaridae Gray,1825

Cidaris Leske,1778 (™ *Echinus cidaris* Linnaeus - Europe?)
= *Dorocidaris* A. Agassiz,1869

C. cidaris (Linnaeus,1758)
= *C. papillata* Leske,1778
Norway between 59-68°

Psychocidaridae

* No Atlantic species.

EUECHINOIDEA

DIADEMATOIDEA

* No species in northern European Seas.

ECHINOIDEA

SALENOIDA

* No species in northern European Seas.

PHYMOSOMATOIDA

* No Atlantic species.

ARBACIOIDA

* No species in northern European Seas.

TEMNOPLEUROIDA

* No species in northern European Seas.

ECHINOIDA Bell,1881

Echinidae Gray,1825

Echinus Linnaeus,1758 (™ *Echinus esculentus* Linnaeus - Europe?)

E. acutus de Lamarck,1816

= *E. flemingii* Forbes,1841

=? *E. norvegicus* Düben & Koren,1846

* *Echinus norvegicus* Düben & Koren,1946, who is very small and depressed compared to a normal *E. acutus*, may perhaps be a species of its own. A population of this taxon is e.g. found in Gullmarsfjorden, below 55 m.

?Belt Sea, Kattegatt-Bohusl., whole Norwegian coast

E. alexandri Danielssen & Koren,1883

Norwegian slope at 69.5°

E. elegans Düben & Koren,1846

Bohusl., Norway between 58-68° (Tysfj.)

E. esculentus Linnaeus,1758

Öresund-Kattegatt-Bohusl., whole coast of Norway

E. tenuispinus Norman,1868

= *E. esculentus* var. *tenuispinus* Norman

Bergen area - Cape Stadt area

Parechinidae Mortensen,1903

Psammechinus L. Agassiz & Desor,1846 (TM *Echinus miliaris* P.L.S. Müller - Europe?)

P. miliaris (P.L.S. Müller,1771)

= *Echinus miliaris* Gmelin

= *Parechinus miliaris* (Gmelin)

Öresund & Belt Sea-Kattegatt-Bohusl., Norway N. to 64° (Trondheimsfj.)

Strongylocentrotidae Gregory,1900

Strongylocentrotus Brandt,1835 (TM *Strongylocentrotus chlorocentrotus* Brandt,1835 - Alaska)

= *Toxopneustes* L. Agassiz,1841

S. droebachiensis (O.F. Müller,1776)

= *S. chlorocentrotus* Brandt (Cf. Op. 208, ICZN)

Öresund & Belt Sea-Kattegatt-Bohusl., whole Norwegian coast

S. pallidus (G.O. Sars,1871)

= *S. droebachiensis* (O.F. Müller) (p.p.)

= ?*S. granularis* (Say,1827)

= *S. pictus* (Norman,1868)

Bergen - NENorway

Echinometridae

* No species in northern European Seas.

Parasaleniidae

* No species in northern European Seas.

GNATHOSTOMATA

HOLECTYPOIDA

* No species in northern European Seas.

CLYPEASTEROIDA

CLYPEASTERINA

* No species in northern European Seas.

LAGANOINA

Fibulariidae Gray,1855

Echinocyamus van Phelsum,1774 (TM *Spatagus pusillus* O.F. Müller - Norway) (Op. 207, 608, & 626, ICZN)

E. pusillus (O.F. Müller,1776)

Öresund & Belt Sea-Kattegatt-Bohusl., whole Norwegian coast

Laganidae

* No species in northern European Seas.

SCUTELLINA

* No species in northern European Seas.

ROTULINA

* No species in northern European Seas.

ATELESTOMATA

CASSIDULOIDA

* No species in northern European Seas.

POURTALESIOIDA

= HOLASTERIDA

Pourtalesiidae A. Agassiz, 1881

Pourtalesia A. Agassiz, 1869 (TM *Pourtalesia miranda* A. Agassiz, 1869 - Caribbean, deep water)

P. jeffreysi Thomson, 1873
Norwegian Sea basin

SPATANGOIDA

Hemiasteridae H.L. Clark, 1917

Hemiaster L. Agassiz & Desor, 1847 (TM *Spatangus bufo* Brongniart, 1822 - Upper Cretaceous fossil)

H. expergitus Lovén, 1874
Northern North Sea in 400 m depth

Spatangidae Gray, 1825

Spatangus Gray, 1825 (TM *Spatangus purpureus* O.F. Müller - Norway) (Op. 209 & 608, ICZN)

S. purpureus O.F. Müller, 1776
?Öresund, Kattegatt-Bohusl., Norway N. to 72° (Porsanger)

S. raschi Lovén, 1869
Skagerrak, Norway between 60-69.5°

Schizasteridae Lambert, 1905

Brisaster Gray, 1855 (TM *Brissus fragilis* Düben & Koren - W. Norway)

B. fragilis (Düben & Koren, 1846)
= *Schizaster fragilis* (Düben & Koren)
Bohusl., whole Norwegian coast

Brissidae Gray, 1855

Brissopsis L. Agassiz in L. Agassiz & Desor, 1847 (TM *Brissus Iyrifer* Forbes - Britain?)

B. lyrifera (Forbes, 1841)
Öresund-Kattegatt-Bohusl., Norway N. to 68°

Loveniidae Lambert,1905

Echinocardium Gray,1825 (TM *Echinus cordatus* Pennant - Britain?) (Op. 209, ICZN)

E. cordatum (Pennant,1777)

Öresund & Belt Sea-Kattegatt-Bohusl., Norway N. to 71° (Porsanger) & North Cape

E. flavescens (O.F. Müller,1776) (Op. 608, ICZN)

?Belt Sea, Öresund-Kattegatt-Bohusl., Norway N. to 71° (Porsanger) or Vadsø

E. pennatidum Norman,1868

Kattegatt-Bohusl., Norway between 58° (Langesundfj.) to 59.5° (Haugesund)

Aeropsidae

* No species in northern European Seas.

Pericosmidae

* No Atlantic species.

Palaeostomatidae

* No Atlantic species.

Asterostomatidae

* Polyphyletic group. No species in northern European Seas.

Toxasteridae

* No Atlantic species.

HOLOTHUROIDEA

DENDROCHIROTACEA

DENDROCHIROTIDA

Psolidae Ludwig,1894

Psolus Jaeger,1833 (TM *Holothuria phantapus* Strussenfelt - Öresund)

= *Psolus* Oken,1815 (n. rej.; publ. in a work inaccessible for nomenclatorial purposes)

P. phantapus (Strussenfelt,1765)

Öresund & Belt Seas-Kattegatt-Bohusl., whole coast of Norway

P. squamatus (Koren,1844)

= *P. valvatus* Östergren,1904

Vestfold - N Finnmark

P. hypsinotus Heding,1942

W Greenland

Phyllophoridae Östergren,1907

Ekmania Hansen & McKenzie,1991 (TM *Orcula barthii* Troschel,1846 - ?)

= *Orcula* Troschel,1846 (preoccupied by a mollusc)

E. barthii (Troschel,1846)

Öresund & Belt Sea -Kattegatt, Norway from Trondheimsfjorden and northwards, Faeroes, Iceland, Spitsbergen, Barents Sea, Kara Sea, E & W Greenland

Neopentadactyla Deichmann,1944 (™ *Pseudocucumis mixta* Östergren - W. Norway)

N. mixta (Östergren,1898)
= *Pseudocucumis mixta* Östergren
Bohusl., Norway between 62.5-69°

Thyonidium Düben & Koren,1846 (™ *Cucumaria communis* Forbes,1841 - Scotland)
= *Duasmodyctyla* Ayres,1854 (™ *Duasmodyctyla productum* Ayres,1856 - New England?)

T. hyalinum (Forbes,1841)
= *Phyllophorus pellucidus* (Fleming) (p.p.)
= *T. pellucidum* Düben & Koren,1846 non (Vahl,1806)
Bohusl., whole Norwegian coast

T. drummondi (Thompson,1840)
= *Cucumaria communis* Forbes,1841
Öresund, Bohusl.-North Sea

Cucumariidae Ludwig,1894

Cucumaria Blainville,1830 (™ *Holothuria frondosa* Gunnerus - Trondheim)

C. frondosa (Gunnerus,1770)
= *Holothuria pentactes* Linnaeus,1767
Entrance of Skagerrak (specimens taken in Oslofjord in 1867), Norway S. to 60°

Panningia Cherbonnier,1958 (™ *Panningia curvata* Cherbonnier,1958 - ?)
= *Paracucumaria* : Auctt., non Panning,1949 (™ *Cucumaria mauritanica* Hérouard,1929 NW. coast of Africa)

?*P. hyndmani* (Thompson,1840)
= *Cucumaria hyndmani* Thompson
* Jensenius Madsen & Hansen 1994 are using the genus-name *Cucumaria* for this species, however admitting that it probably not should be placed there, but arguing that its tentacles and calcareous ring also is a bit different from the type species of *Panningia*
Kattegatt-Bohusl., Norway N. to 64° (southern Nordland)

Trachythyone Studer,1876 (™ *Trachythyone muricata* Studer,1876 - Antarctic)
= *Leptopentacta* : Auctt., non H.L. Clark,1938 (™ *Leptopentacta grisea* H.L. Clark,1938 - Australia?)

T. elongata (Düben & Koren,1846)
= *Cucumaria elongata* Düben & Koren
= *Cucumaria pentactes* Forbes,1841 non (Linnaeus,1767)
Belt Sea & Öresund-Kattegatt-Bohusl., Norway N. to 64° (Southern Nordland)

Ocnus Forbes & Goodsir, in Forbes,1841 (™ *Ocnus brunneus* Forbes,1841 - Britain)

O. lacteus Forbes,1841
= *Cucumaria lactea* (Forbes)
= *Cucumaria mosterensis* Grieg,1889
Kattegatt-Bohusl., Norway N. to 64° (Trondheimsfj.)

O. planci (Brandt,1835)
=? *O. brunneus* (Thompson,1840, ex Forbes MS)
Central North Sea

O. glacialis (Ljungman,1880)
Spitsbergen, the coast east of the White Sea

Pentamera Ayres,1852 (TM *Pentamera pulcherrima* Ayres,1852 - ?)

P. calcigera (Stimpson,1851)
= *Pentacta calcigera* Stimpson,1851
= *Cucumaria koreni* Lütken,1857
White Sea, S & W Greenland

Thyone Jaeger,1833 (TM *Holothuria fusus* O.F. Müller - Dröbak)
= *Thyone* Oken,1815 (n. rej.; publ. in a work not accessible for nomenclatorial purposes)

T. fusus (O.F. Müller,1776)
Kattegatt-Bohusl., Norway N. to W Finnmark

T. gadeana R. Perrier,1902
= *T. wahrbergi* Madsen,1941
Bohusl., Norway N. to Trondheimsfjorden

T. inermis Heller,1868
= *T. elegans* Norman,1869
Shetlands, Irish Sea-Mediterranean

T. roscovita Hérouard,1890
W British Isles, W France

Pseudothyone Panning,1949 (TM *Thyone raphanus* Düben & Koren - W. Norway)

P. raphanus (Düben & Koren,1846)
= *Thyone raphanus* Düben & Koren
Bohusl., Arendal - Lofoten

P. serrifera (Östergren,1898) Jensenius Madsen & Hansen,1994
= *Thyone serrifera* Östergren,1898
Trondheimsfj.

Sclerodactylidae
* No species in northern European waters.

Placothuriidae
* No Atlantic species.

Paracucumidae
* Just accomodating one Antarctic species.

Heterothyonidae
* No Atlantic species.

DACTYLOCHIROTIDA Pawson & Fell,1965

Ypsilothuriidae Heding,1942

Echinocucumis M. Sars,1859 (TM *Echinocucumis typica* M. Sars,1859 - W. Norway)

E. hispida (Barrett,1857)

= *Eupyrigus hispidus* Barrett,1857

= *Echinocucumis typica* M. Sars

= *Cucumaria hispida* (Barrett)

Central Skagerrak, Norway between Arendal area - N Finnmark

Vaneyellidae

* No Atlantic species.

Rhopalodinidae

* No species in European Seas.

ASPIDOCHIROTACEA

ASPIDOCHIROTIDA

Stichopodidae Haeckel,1896

Eostichopus Cutress & Miller,1982 (TM ? - ?)

E. regalis (Cuvier,1817)

= *Stichopus regalis* (Cuvier,1817)

W. Britain

Parastichopus H.L. Clark,1922 (TM *Holothuria tremula* Gunnerus - Norway)

P. tremulus (Gunnerus,1767)

=? *Stichopus griegi* Östergren,1897

= *Stichopus tremulus* (Gunnerus)

= *Holothuria ecalcareia* (M. Sars,1861)

* Jensenius Madsen & Hansen 1994 were referring this species to *Stichopus* Brandt,1835, because they thought that *Parastichopus* is a doubtful genus.
S Kattegatt-Bohusl.-Skagerrak, whole coast of Norway

Synallactidae Ludwig,1894

Bathyplores Östergren. 1896 (TM *Holothuria natans* M. Sars - Lofoten)

B. natans (M. Sars,1868)

= *B. tizardi* (Theel,1882)

= *B. fallax* Östergren,1896

Norway between 60-68° (Arendal - Troms areas)

Mesothuria Ludwig,1894 (TM *Mesothuria multipes* Ludwig,1894 - W. Atlantic?)

M. intestinalis (Ascanius,1805)

Bohusl., Whole coast of Norway

M. verrilli (Théel,1880)

off Ireland

Holothuridae

Holothuria Linnaeus,1767 (TM?,1??? - ?)

H. forskali Delle Chiaje,1841

SW Britain

ELASIPODIDA

Elpidiidae Theel, 1882

Elpidia Théel, 1876 (TM *Elpidia glacialis* Théel - north of Siberia?)

E. glacialis Théel, 1876
Porsanger, Barents Sea, Norwegian Sea basin

Irpa Danielssen & Koren, 1878 (TM *Irpa abyssicola* Danielssen & Koren - Norw. Sea)

I. abyssicola Danielssen & Koren, 1878
Norwegian Sea basin

Kolga Danielssen & Koren, 1879 (TM *Kolga hyalina* Danielssen & Koren - Norw. Sea)

K. hyalina Danielssen & Koren, 1879
Norwegian Sea basin

Deimatidae

* No species in northern European Seas.

Laetmogonidae Ekman, 1926

Laetmogone Théel, 1879 (TM *Laetmogone wyvillethomsoni* Théel, 1879 - ?Indian Ocean)

L. violacea Théel, 1879
off S Faeroes, off SW & NW Iceland, Davis Strait

Psychropotidae

* Including active swimmers. No species in northern European Seas.

Pelagothuridae

* Swimming forms. No species in northern European Seas.

APODACEA

APODIDA

Synaptidae Burmeister, 1837

Labidoplax Östergren, 1898 (TM *Synapta tenera* Norman, 1865, nom. nud. - Britain?)
= *Lapidoplax* Grieg, 1912

L. buskii (McIntosh, 1866)
= *Synapta tenera* Norman
= *Synapta buskii* McIntosh
Kattegatt-Bohusl., all Norway

L. digitata (Montagu, 1815)
Northern North Sea

L. media Östergren, 1905
Stavanger - Bergen areas, Shetlands & northernmost North Sea

L. similimedia Gage,1985
off W Britain in deep water

L. southwardorum Gage,1985
off W Britain in deep water

Oestergrenia Thander & Rowe,1989 (™ ?,1??? - ?)

O. thomsoni (Herapath,1865)
= *Labidoplax thomsoni* (Herapath,1865)
NE Atlantic

Leptosynapta Verrill,1867 (™ *Holothuria inhaerens* O.F. Müller,1776 - Kristiansand)

L. bergensis (Östergren,1905)
= *Synapta bergensis* Östergren,1905
Kattegatt-Bohusl., Norway between 58-64°

L. decaria (Östergren,1905)
= *Synapta decaria* Östergren,1905
Kattegatt-Bohusl., Norway between 58-64°

L. inhaerens (O.F. Müller,1776)
Öresund-Kattegatt-Bohusl., Norway N. to 68°

L. minuta (Becher,1906)
Bergen, Helgoland, Engl. Channel, W Scotland, Ireland, NW Spain, Mediterranean

Rhabdomolgus Keferstein,1863 (™ *Rhabdomolgus ruber* Keferstein - N. coast of France)

R. ruber Keferstein,1863
Helgoland, Troms

Chiridotidae Östergren,1895

Chiridota Eschscholtz,1829 (™ *Chiridota discolor* Eschscholtz,1829 - NE. Pacific)
= *Chirodota* Jaeger,1833

C. laevis (O. Fabricius,1780)
= *Holothuria laevis* O. Fabricius,1780
= *Holothuria pellucida* Vahl,1806
Norway S. to 68° or perhaps 60.5°

Myriotrochidae Théel,1877

Acanthotrochus Danielssen & Koren,1879 (™ *Acanthotrochus mirabilis* Danielssen & Koren - Norw. Sea)

A. mirabilis Danielssen & Koren,1879
Norwegian Sea basin

Myriotrochus Steenstrup,1851 (™ *Myriotrochus rinkii* Steenstrup - SW Greenland)

M. rinkii Steenstrup,1851
Norway S. to 60.5°

M. eurycyclus Heding,1935

NE Greenland, off E Spitsbergen, E Barents Sea

M. theeli Östergren,1905
Norwegian Sea basin (NW of Jan Mayen)

M. vitreus (M. Sars,1872)
Skagerrak, Norway N. to 68°

Trochoderma Théel,1877 (TM *Trochoderma elegans* Théel - Novaja Zemlja)

T. elegans Théel,1877
E. Finnmark

MOLPADIIDA

Molpadiidae J. Müller,1850, emend. Heding,1935

Molpadia (Cuvier,1817) Risso,1826 (TM *Molpadia musculus* Risso,1826 - Mediterr.)

M. borealis M. Sars,1859
= *M. arctica* Mortensen,1910 non (Marenzeller,1877)
= *M. oolitica* Mortensen 1914 non Pourtales,1851
= *Ankyroderma affine* Danielssen & Koren,1880
= *Ankyroderma jeffreysii* Danielssen & Koren,1878
= *Trochostoma arctica* Danielssen & Koren,1880 non (Marenzeller,1877)
= *Trochostoma boreale* (M. Sars)
= *Trochostoma thomsonii* Danielssen & Koren,1879
Norway S. to 70° & slope S to 62°

Gephyrothuriidae

* No species in N. European Seas above abyssal depths.

Eupyrgidae Semper,1868
= Caudinidae Heding,1931

Eupyrgus Lütken,1857 (TM *Eupyrgus scaber* Lütken - SW Greenland)
= *Echinosoma* Semper,1868

E. scaber Lütken,1857
= *Echinosoma hispidum* Semper,1868
East Finnmark

Hedingia Deichmann,1938 (TM ? - ?)

H. albicans (Théel,1886)
off S Iceland

EDRIOASTEROIDEA † Extinct

HELICOPLACOIDEA † Extinct

OPHIOCISTIOIDEA † Extinct

CYCLOCYSTOIDEA † Extinct

HOMALOZOA † Extinct

HOMOSTELEA

† Extinct

HOMIOSTELEA

† Extinct

STYLOPHORA

† Extinct