

**NEAT (North East Atlantic Taxa):
South Scandinavian marine "Aschelminth" (except Nematoda,
which are treated separately) & some other species poor phyla
Check-List.**

compiled at TMBL (Tjärnö Marine Biological Laboratory) by:

Hans G. Hansson 1988-11-16 / small revisions until Sep. 1996, when it - somewhat revised (and again May 1997) - was republished as a pdf file on Internet.

The following phyla are treated in this list: Placozoa, Gnathostomulida, Tardigrada, Entoprocta, Cyclophora, Priapulida, Kinorhyncha, Loricifera, Mesozoa, Acanthocephala, Nematomorpha, Gastrotricha, Rotifera, Echiura, Sipuncula, Pogonophora, Hemichordata, Chaetognatha & Xenoturbellida.

Citation suggested: Hansson, H.G. (Comp.), 1997. NEAT (North East Atlantic Taxa): South Scandinavian marine "Aschelminth" (excl. Nematoda) & other species poor phyla Check-List. Internet pdf Ed., May 1997. [http://www.tmbi.lgu.se].

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

N.B.: This is one of several preliminary check-lists, covering S. Scandinavian marine animal (and partly marine protocist) taxa. Some financial support from (or via) NKMB (Nordiskt Kollegium for 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. The compiler would be very grateful for every correction of presumptive lapses and omissions an initiated reader could make.

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

PLACOZOA

Treptoplax Monticelli, 1893

T. reptans Monticelli, 1896
* Possibly a synonym of *Trichoplax adhaerens* von Schultze
Aquarium tanks of the Plymouth laboratory, Mediterranean

Trichoplax F.E. von Schultze, 1883

T. adhaerens F.E. von Schultze, 1883
Mediterranean

GNATHOSTOMULIDA Ax, 1956

FILOSPERMOIDEA Sterrer, 1972

Haplognathiidae Sterrer, 1972

Haplognathia Sterrer, 1970

H. ruberrima (Sterrer, 1966)
Öresund, Gullmarfjord

H. filum (Sterrer, 1966)
Öresund, Gullmarfjord, Sylt

H. simplex (Sterrer, 1966)
Öresund, Gullmarfjord, Sylt

H. rubromaculata (Sterrer, 1969)
Gullmarfjord, Sylt

H. rosea (Sterrer, 1969)
Gullmarfjord, Sylt

H. gubbarnorum (Sterrer, 1969)
Gullmarfjord, Sylt

H. lunulifera (Sterrer, 1969)
Gullmarfjord

Pterognathiidae Sterrer, 1972

Pterognathia Sterrer, 1966

P. swedmarki Sterrer, 1966
Öresund, Gullmarfjord, Sylt

P. atrox Sterrer, 1969
Gullmarfjord

P. meixneri Sterrer, 1969
Gullmarfjord

P. sorex Sterrer, 1969
Gullmarfjord, Sylt

Pterognathia spp.
* 3 more species known from Scandinavia?

BURSOVAGINOIDEA Sterrer, 1972

SCLEROPERALIA Sterrer, 1972

Agnathiellidae Sterrer, 1972

Agnathiella Sterrer, 1971
Florida

Clausognathiidae Sterrer, 1992

Clausognathia Sterrer, 1992 (TM *Clausognathia suicauda* Sterrer, 1992 - Belize)

Mesognathariidae Sterrer, 1972

Mesognatharia Sterrer, 1966
Bohuslän?, Ireland

Labidognathia Riedl, 1970
Florida, Panama

Tenuignathia Sterrer, 1976
Florida

Gnathostomariidae Sterrer, 1972

Gnathostomaria Ax, 1956

G. lutheri Ax, 1956
Öresund, Mediterranean

Rastrognathiidae Kristensen & Nørrevang, 1977

Rastrognathia Kristensen & Nørrevang, 1977

R. macrostoma Kristensen & Nørrevang, 1977
S Kattégatt

Problognathiidae Sterrer & Farris, 1975

Problognathia Sterrer & Farris, 1975
Bermuda

Onychognathiidae Sterrer, 1972

Onychognathia Riedl, 1971
Florida

Valvognathia Kristensen & Nørrevang, 1978

V. pogonostoma Kristensen & Nørrevang, 1978
Öresund

Nanognathia Sterrer, 1973
Florida

Gnathostomulidae Sterrer, 1972

Gnathostomula Ax, 1956

G. paradoxa Ax, 1956
Öresund, Bohuslän, Kiel, Helgoland, Sylt, Bergen

Semaognathia Riedl, 1970
Florida

Corculognathia ?, 19??
?

CONOPHORALIA Sterrer, 1972

Austrognathiidae Sterrer, 1972

Austrognathia Sterrer, 1965
Öresund, Atlantic coast of France, Mediterranean

Austrognatharia Sterrer, 1971
Ireland, Mediterranean

TARDIGRADA

= **IL TARDIGRADO** Spallanzani, 1777

* Not all terrestrial species from the marine splash zone are included.

HETEROTARDIGRADA Marcus, 1927

ARTHROTARDIGRADA Marcus, 1927

Halechiniscidae Thulin, 1928

Archechiniscinae

Archechiniscus Schulz, 1953

A. marci Schulz, 1953
Caribbean, S & E Pacific

Tanarctinae Renaud-Mornant, 1980

Tanarctus Renaud-Debyser, 1959

T. arborspinosus Lindgren, 1971
W Atlantic

T. longisetosus Grimaldi de Zio, D'Addobbo Gallo, Morone De Lucia, Vaccarella & Grimaldi, 1982
Mediterranean

T. ramazzottii Renaud-Mornant, 1975
Bretagne

T. tauricus Renaud-Debyser, 1959
Mediterranean, Florida

T. gracilis Renaud-Mornant, 1980
Koster area (R.M. Kristensen pers. comm.), North Carolina

T. dendriticus Renaud-Mornant, 1980
North Carolina

T. heterodactylus Renaud-Mornant, 1980
North Carolina

Actinarctus Schulz,1935

A. doryphorus doryphorus Schulz,1935 (TM - Helgoland)

@ on body surface of *Echinocyamus pusillus*, but a common habitat is - according to Kristensen (pers. comm.) - probably the only connection between the tardigrade and the urchin.

Gullmarfjord area (Bonden), Koster area (Kalkgrund), Helgoland

A. doryphorus ocellatus Renaud-Mornant,1971

Roscoff, Brest

A. neretinus Grimaldi de Zio, D'Addobbo Gallo, Morone De Lucia, Vaccarella & Grimaldi,1982
Mediterranean

A. physophorus Grimaldi de Zio, D'Addobbo Gallo, Morone De Lucia, Vaccarella & Grimaldi,1982
Mediterranean

Zioella Renaud-Mornant,1987

Florarctinae Renaud-Mornant,1982

Florarctus Delamare Deboutteville & Renaud-Mornant,1965

F. antillensis van der Land,1968
Caribbean

F. acer Renaud-Mornant,1990
France

F. cinctus Renaud-Mornant,1976
Roscoff, Mediterranean

F. hulingsi Renaud-Mornant,1976
Mediterranean

Ligiartus Renaud-Mornant,1982

Wingstrandartus Kristensen,1984 (TM *W. corallinus* Kristensen,1984 - E Australia)

W. intermedius (Renaud-Mornant,1967) Kristensen,1984
= *Halechiniscus intermedius* Renaud-Mornant,1967
Mediterranean, tropical seas

W. sp. : Kristensen,1984
Tromsø

W. sp. : Kristensen,1984
Roscoff

Halechiniscinae Thulin,1928

Chrysoartus Renaud-Mornant,1984

Halechiniscus Richters,1908

H. flabellatus Grimaldi de Zio, D'Addobbo Gallo, Morone De Lucia, Vaccarella & Grimaldi,1982
Mediterranean

H. gutteli Richters,1908 (TM - Bretagne)
@ *Ostrea edulis*.
* A species incerta!
Helgoland, Engl. Channel, Bretagne

H. greveni Renaud-Mornant & Deroux,1976
Roscoff

H. perfectus Schulz,1955
North Sea, Brest at 170m, Scotland

H. remanei Schulz,1955
Gullmarfjord area (Bonden), Brest at 130m, Florida

H. subterraneus Renaud-Debyser,1959
Mediterranean

Paradoxipus Kristensen & Higgins,1989 (TM *Paradoxipus orzeliscoides* Kristensen & Higgins - Florida)

Orzeliscinae

Orzeliscus du Bois-Reymond Marcus,1952

O. belopus du Bois-Reymond Marcus,1952 (TM)
Scotland (Firemore Bay within Loch Ewe), Arcachon

O. septentrionalis Schulz,1953
German North Sea coast

Opydorscus Renaud-Mornant,1989

Styraconyxinae Renaud-Mornant & Kristensen,1983

Angursa Pollock,1979

Bathyechiniscus Steiner,1926 (TM *Bathyechiniscus tetronyx* Steiner,1926 - Antarctic Seas)

Lepoartus Kristensen & Renaud-Mornant,1983 (TM *Pleocola conferta* Renaud-Mornant,1975)
* Correct subfamily?

Paratanarctus D'Addobbo Gallo, De Zio Grimaldi, Morone D Lucia & Troccoli,1992

Pleocola Cantacuzène,1951

P. limnorhae Cantacuzène,1951 (TM)
@ Sometimes associated with *Limnoria lignorum*.
Roscoff

Raiarctus Renaud-Mornant,1981

R. colurus Renaud-Mornant,1981
Florida, Caribbean Sea

Rhomborctus Renaud-Mornant,1984

Styraconyx Thulin,1942

S. hallasi Kristensen,1977
W Greenland warm springs, Mediterranean

S. haploceros Thulin,1942 (TM - St. Malo)
@ *Lichina*-tufts.
Engl. Channel, Bretagne (St. Malo)

S. kristenseni Renaud-Mornant,1981
Mediterranean, tropical seas

S. nanoqsunguak Kristensen & Higgins,1984
off Disko Island (W Greenland) in 100-110 m, Mediterranean

S. qivitoq Kristensen & Higgins,1984
@ found on a Bryozoan colony
Disco Bay (W Greenland) in 70 m, Mediterranean

S. sargassi Thulin,1942
= *Bathyechiniscus tetronyx* : Marcus,1936, non Steiner
@ on the invasive seaweed *Sargassum* spp.
Mediterranean, Azores

S. paulae Robotti,1971
?

S. craticulus (Pollock,1983)
= *Bathyechiniscus craticulus* Pollock,1983
?

Tetrakentron Cuénot,1892

T. synaptae Cuénot,1892 (TM - Roscoff)
@ Parasite on tentacles of *Leptosynapta gallieni*
Roscoff

Tholoartus Kristensen & Renaud-Mornant,1983
* Correct subfamily?

T. natans Kristensen & Renaud-Mornant,1983 (TM - Roscoff)
* Semi-pelagic on "Dentalium-sand"
Roscoff

Euclavarctinae Renaud-Mornant,1983

Clavarctus Renaud-Mornant,1983

Euclavarctus Renaud-Mornant,1975 (TM *Euclavarctus thieli* Renaud-Mornant,1975 - deep Indian Ocean)

Exoclavarctus Renaud-Mornant,1983

Moebjergartus Bussau,1992

Parmursa Renaud-Mornant,1984

Proclavarctus Renaud-Mornant,1983

Batillipedidae Riggini,1962

Batillipes Richters,1909

B. acaudatus Pollock,1971
Yorkshire (Robin Hood's Bay)

B. annulatus De Zio,1962
Mediterranean

B. bullacaudatus McGinty & Higgins,1968
Scotland (Loch Ewe) (see McIntyre & Murison, 1973), Florida, Virginia, Massachusetts

B. carnensis Fize,1957
Mediterranean, Indian Ocean

B. dicrocercus Pollock,1970
Woods Hole

B. friaufi Riggini,1962
W Atlantic

B. littoralis littoralis Renaud-Debyser,1969
Arcachon, Loch Ewe? (May have been the other subspecies)

B. littoralis submersus d'Hondt,1970
Roscoff

B. mirus Richters,1909 (TM - Kieler Bucht)
* Old distribution data regarding this species should probably be considered with some care. It may have been confused with species described later.
Kieler Bucht - Bohuslän, W. Denmark, Bergen, Tvärminne??. Britain, cosmopolite

B. noerrevangi Kristensen,1978
Denmark (Nivåa Bay, E Sjælland)

B. pennaki Marcus,1946
Arcachon, Mediterranean, Massachusetts

B. phreaticus Renaud-Debyser,1959
Elbe estuary, Britain (e.g. Yorkshire), Scilly, Arcachon

B. roscoffensis Kristensen,1978
@ *Leptosynapta gallieni*.
Roscoff

B. similis Schulz,1955
Mediterranean

B. tubernatis Pollock,1971
Elbe estuary, Yorkshire, Scotland

Stygarctidae Schulz,1951

Stygarctinae Schulz,1951

Megastygarctides McKirdy & al.,1976 (TM *M. orbiculatus* McKirdy & al.,1976)

M. setaloso Morgan & O'Reilly,1988
NW Scotland

Mesostygarctus Renaud-Mornant,1979

M. intermedius Renaud-Mornant,1979
Mediterranean

Parastygarctus Renaud-Debyser,1965 (TM*Parastygarctus higginsii* Renaud-Debyser,1965 - Madagascar)

P. sterreri Renaud-Mornant,1970
Adriatic Sea, Florida

Pseudostygarctus McKirdy & al.,1976

Stygarctus Schulz,1951

S. bradypus Schulz,1951 (TM - Sylt)
Sylt, Roscoff

S. granulatus Pollock,1970
Woods Hole

S. goubaultae Renaud-Mornant,1981
Florida, Caribbean Sea

Neoarctinae

Neoarctus Grimaldi de Zio, D'Addabbo Gallo & Morone De Lucia,1992

N. primigenius Grimaldi de Zio, D'Addabbo Gallo & Morone De Lucia,1992 (TM - Tyrrhenian Sea)
Mediterranean

Renaudarctidae Kristensen & Higgins,1984

Renaudarctus Kristensen & Higgins,1984 (TM*Renaudarctus psammocryptus* Kristensen & Higgins,1984 - Florida)

Neostygarctinae ?,19??

Neostygarctus Grimaldi de Zio, D'Addabbo Gallo & Morone De Lucia,1982

N. acanthophorus Grimaldi de Zio, D'Addabbo Gallo & Morone De Lucia,1982 (TM - Mediterranean)
Mediterranean (in marine cave)

Coronarctidae Renaud-Mornant,1974

Coronarctus Renaud-Mornant,1974 (TM*Coronarctus tenellus* Renaud-Mornant,1974 - deep Indian Ocean)

C. stylisetus Renaud-Mornant,19??
Faroe Bank in 104-209 m, Cape Hatteras in 439 m

C. laubieri Renaud-Mornant,1987
Biscay

Troglarctus Villora-Moreno,1996

T. trionyches Villora-Moreno,1996 (TM - Mediterranean submarine cave)
Mediterranean

ECHINISCOID(E)A Marcus,1927

Echiniscoididae Kristensen & Hallas,1980
Bohuslän, Bergen, Helgoland

E. sigismundi galliensis Kristensen,1980
Engl. Channel

E. sigismundi groenlandicus Kristensen,1980
Greenland

E. sigismundi hispaniensis Kristensen,1980
Biscay

Anisonyches Pollock,1975 (TM*Anisonyches diakidius* Pollock,1975 - Bahamas)

Echiniscoides Plate,1889

E. sigismundi sigismundi (Max Schultze,1865)
= *Echiniscus sigismundi* Max Schultze,1865 (TM)
@ Associated with *Semibalanus balanoides* and *Mytilus edulis*.

E. sigismundi mediterranicus Kristensen,1980
W Mediterranean

E. hoepneri Kristensen,1980
@ *Semibalanus balanoides*
Greenland

Echiniscidae

Echiniscus C.A.S. Schultze,1840

E. quadripinosus Richters,1902
* A moss waterfilm species recorded once in the sea.
Arcachon

Bryodelphax Thulin,1928 (TM*Echiniscus intermedius* Murray,1910)

B. parvulus Thulin,1928
@ May be found supralittorally on the lichen *Anaptychia*
?

EUTARDIGRADA Marcus,1927

PARACHELA

Macrobotidae Thulin,1928

Macrobotus Schultze,1834 (TM*Macrobotus Hufelandi* Sigismund Schultze,1834)

M. echinogenitus Richters,1903
= *M. crenulatus* Richters,1903
@ May be found supralittorally on the lichen *Anaptychia*
?Bohusl.

Hypsibiidae Pilato,1969

Hypsibiinae Pilato,1969

Halobiotus R.M. Kristensen,1982

* This is the only really marine genus of Eutardigrada

H. crispae R.M. Kristensen,1982 (TM)
Bohuslän, Disco Island, Arctic Sea

H. stenostomus (Richters,1908)
= *Isohypsibius stenostomus* (Richters,1908)
= *Hypsibius stenostomus* (Richters,1908)
= *Macrobotus stenostomus* Richters,1908
Fehmarn-Belt, Schleimünde, Black Sea

H. appelloefi (Richters,1908)

* according to Kristensen (pers. comm.) is this probably only a form of *H. stenostomus* (Richters)
= *Isohypsibius appelloefi* (Richters,1908)
= *Hypsibius appelloefi* (Richters,1908)
= *Macrobotus appelloefi* Richters,1908
Bohuslän, Öresund, Bergen, Kieler Fördr

H. geddesi (Hallas,1971)
= *Isohypsibius geddesi* (Hallas,1971)
= *Hypsibius (Isohypsibius) geddesi* Hallas,1971
Norway (Tromsö), Denmark (Frederikshavn)

H. arcturulus Crisp & R.M. Kristensen,1983
Greenland

Hypsibius Ehrenberg,1848

H. dujardini (Doyère,1840)

= *Macrobotus Dujardini* Doyère,1840
@ may be found in the upper littoral spray zone on the maritime rock moss *Schistidium maritimum*
?

Isohypsibius Thulin,1928

I. prosostomus Thulin,1928

@ May be found supralittorally on the lichens *Anaptychia*, *Ramalina* & *Xanthoria*
Bohusl.

Ramazottius Binda & Pilato,1986

R. oberhaeuseri (Doyère,1840)

= *Hypsibius (Hypsibius) oberhaeuseri* (Doyère,1840)
= *Macrobotus Oberhäuseri* Doyère,1840
@ May be found supralittorally on the lichens *Anaptychia*, *Ramalina* & *Xanthoria*
Britain

APOCHELA

Milnesiidae

Milnesium Doyère,1840

M. tardigradum Doyère,1840

@ May be found supralittorally on the lichens *Anaptychia*, *Ramalina* & *Xanthoria*
Baltic - Bohusl., Europe

ENTOPROCTA Nitsche,1869

= KAMPTOZOA Cori,1929

Loxosomatidae Hincks,1880

Loxosoma Keferstein,1863, emend. Mortensen,1911
= *Cyclatella* van Beneden & Hesse,1864

L. saltans Assheton,1912

@ in the tube of *Leiochone clypeata*.
Scotland (Isle of Skye)

L. loxalina Assheton,1912

@ in an unidentified Maldanide tube
W Scotland

L. singulare Keferstein,1862 (TM)

@ *Notomastus latericeus* .
English Channel

L. annelidicola (van Beneden & Hesse,1864)

= *Cyclatella annelidicola* van Beneden & Hesse,1864
@ *Nicomache lumbricalis* & *Petaloproctus terricola* .
Eng. Channel, Wales

L. claparedi Bobin & Prenant,1953

@ *Notomastus latericeus* .
N Kattegatt, Roscoff

L. monensis Eggleston,1965

@ inside unidentified arenaceous worm-tube
Isle of Man

L. pectinaricola Franzén,1962

@ *Pectinaria belgica* .
Öresund - Koster Area - Oslofjord - Skagerrak - Bergen, Cullercoats

L. rhodinicola Franzén,1962

@ *Rhodine loveni* (chiefly on the anterior segments)
S Kattegatt - Koster Area - Oslofjord - Skagerrak - Bergen, North Sea

"*L.*" *loricatum* Harmer,1915

* As the type specimens are described from the Indonesian bryozoan *Canda* the European material, found by Bobin & Prenant, 1953, probably belongs to another species, possibly a *Loxosomella* .
@ *Hermonia hystrix*.
Roscoff

Subgen. *Loxomorpha* Nielsen,1964

L. (Loxomorpha) significans Nielsen,1964

@ on the anterior end of *Asychis biceps* .
Kattegatt - Koster Area - Oslofjord - Bergen

- L. (Loxomorpha) agile** Nielsen, 1964
 @ in the tubes of *Nicomache trispinata* .
 Kattegatt - Bohuslän - Bergen
- Loxomespilon** Bobin & Prenant, 1953
 * Sensu Emschermann, 1971 is this genus closely related to subgenus *Loxomitra* within *Loxosomella* .
- L. perezii** Bobin & Prenant, 1953 (TM)
 @ on *Sithenelais boa* .
 Plymouth, Roscoff
- Loxosomella** Mortensen, 1911
 = *Loxocalyx* Mortensen, 1911
- L. antedonis** Mortensen, 1911
 * The Swansea record by Ryland & Austin, 1960 is probably not the same species as Mortensen found on a crinoid from Greenland.
 @ on *Poliomethra prolixa* , Swansea, on settling panels.
 Greenland
- L. alata** (Barrois, 1877)
 * Doubtful species
 @ on a sponge, *Dysidia* ?
 English Channel
- L. brumptii** (Nilus, 1909)
 @ *Phascolion spitzbergense* .
 Kolafjord
- L. fagei** Bobin & Prenant, 1953
 @ on ventral side of *Hermonia hystrix* .
 Roscoff
- L. elegans** Nielsen, 1964
 @ in the tubes of *Praxillella praetermissa* , *Rhodine gracilior* , *Heteroclymene robusta* & *Nicomache lumbricalis*
 Öresund - Koster Area, Bergen
- L. similis** Nielsen, 1964
 @ in the tubes of *Nicomache trispinata*
 Kattegatt - Bohuslän, Bergen
- L. polita** Nielsen, 1964
 @ in the tubes of *Petaloproctus tenuis* var. *borealis* , *Nicomache lumbricalis* and (more rarely) *Rhodine gracilior* .
 Öresund - Koster Area, Bergen
- L. ornata** Nielsen, 1964
 @ in the tubes of *Thelepus cincinnatus*
 Öresund - Bohuslän
- L. marsypos** Nielsen & Ryland, 1961
 @ in the tubes of *Eunice pennata* and *Chaetopterus* sp..
 Skagerrak, Bergen, Isle of Man
- L. harmeri** (Schultz, 1895)
 @ *Gattyana cirrosa* and *Harmothoe* spp.
 Öresund - Kattegatt, Cullercoats, White Sea
- L. atkinsae** Bobin & Prenant, 1953
 = *L. bouxini* Bobin & Prenant, 1953
 =? *L. cuenoti* Bobin & Prenant, 1953
 = *L. arvyae* Bobin & Prenant, 1953
 = *L. fungiformis* Bobin & Prenant, 1953
 @ on *Phascolion strombi* and in its tube
 Kattegatt - Bohuslän, Isle of Man, English Channel, France
- L. nitschei** (Vigelius, 1882)
 = *Loxosoma nitschei* Vigelius, 1882
 @ on different Bryozoans, Hydroids, Algae and stones
 Öresund - Bohuslän, Bergen, France, Cullercoats, Arctic Seas
- L. murmanica** (Nilus, 1909)
 = *Loxosoma murmanica* Nilus, 1909
 @ on *Phascolion strombi* and in its shelter and inside the oldest parts of *Amphictene auricoma* tubes.
 Öresund - Skagerrak, Kolafjord, Engl. Channel, W France, Isle of Man
- L. phascolosomata** (Vogt, 1876)
 @ on posterior end of *Golfingia vulgare* & *Golfingia elongata* and on their commensal bivalves *Myrella hidenata* & *Epilepton clarkie*
 Kattegatt - Koster Area, W Norway, Helgoland, Plymouth, SW Ireland
- L. fauveli** Bobin & Prenant, 1953
 @ *Aphrodita aculeata* & *Laetmonice filicornis* & *Hermonia hystrix* .
 N Kattegatt, Roscoff, England
- L. teissieri** (Bobin & Prenant, 1953)
 @ *Dysidea fragilis* .
 Roscoff
- L. compressa** Nielsen & Ryland, 1961
 @ dorsal notopodial setae of various Polynoidae, e.g. *Gattyana cirrosa* & *Lagisca extenuata*
 Kattegatt - Koster Area, Bergen, Isle of Man
- L. nordgaardii** Ryland, 1961
 @ different Bryozoans.
 Kattegatt - Koster Area, Bergen, Cullercoats
- L. glandulifera** Franzén, 1962
 @ inside the tube of *Panthalis oerstedii*
 Kattegatt - Bohuslän
- L. discopoda** Nielsen & Ryland, 1961
 @ *Amphilepis norvegica*
 Bergen, Norwegian Skagerrak Coast
- L. scaura** Nielsen, 1964
 @ *Nephtys paradoxa*, *N. incisa* & *N. hombergi*.
 Kattegatt - Koster Area
- L. varians** Nielsen, 1964
 @ various Nephtyidae.
 W Baltic - Bohuslän in >20m, Bergen, Iceland
- L. aripes** Nielsen, 1964
 @ *Laonice cirrata* .
 Bergen
- L. obesa** (Atkins, 1932)
 = *Loxosoma obesum* Atkins, 1932
 @ *Aphrodita aculeata* .
 Bergen, Plymouth, Isle of Man
- L. brucei** Eggleston, 1965
 @ inside unidentified arenaceous polychete tube.
 Isle of Man
- L. claviformis** (Hincks, 1880)
 = *Loxosoma claviformis* Hincks, 1880
 @ *Aphrodita* & *Laetmonice* .
 Isle of Man, Roscoff, Monaco
- L. crassicauda** (Salensky, 1877)
 = *Loxosoma crassicauda* Salensky, 1877
 @ on a diversity of invertebrates, e.g. *Phyllochaetopterus* , in tubes of *Sabella*, *Branchiomma*, *Bispira* , on *Ciona*, *Zoobothryon* , etc.
 Plymouth, Naples
- Subgen. **Loxomitra** Nielsen, 1964
- L. (Loxomitra) kefersteinii** (Claparède, 1867)
 = *Loxosoma kefersteini* Claparède, 1867
 @ on *Bugula* and settling panels.
 Swansea, Naples, Red Sea, Florida
- Pedicellinidae** Smitt, 1867
- Pedicellina** M. Sars, 1835
- P. nutans** Dalyell, 1848
 @ no specific substrata demanded.
 Frederikshavn, Swedish Westcoast, S North Sea, Plymouth, W Norway, Wales, Scotland
- P. hispida** Ryland, 1965
 @ on *Terebratella*
 Plymouth, France, on *Bowerbankia* , New Zealand
- P. cernua** (Pallas, 1771)
 = *Brachionus cernuus* Pallas, 1771
 = *Hydra coronata* Fleming, 1828
 = *Pedicellina echinata* M. Sars, 1835 (TM)
 = *Pedicellina glabra* Dalyell, 1848
 = *Crinomorpha belgica* van Beneden, 1845
 = *Pedicellina americana* Leidy, 1855
 @ no specific substrata demanded.
 W Baltic, Isefjord, Jutland, Bohuslän, Bergen, "Cosmopolitan"
- Barentsiidae**
 = **Urnatellidae** Annandale, 1915
- Barentsia** Hincks, 1880
 = *Pseudopedicellina* Toriumi, 1951
- B. gracilis** (Sars, 1835)
 = *Pedicellina gracilis* M. Sars, 1835
 = *Crinomorpha belgica* van Beneden, 1845
 @ on inanimate substrata or e.g. on ventral side of *Aphrodita aculeata*, on upper surface of elytrae of *Lepidodotus squamatus*, on shells inhabited by *Phascolion* and on several other invertebrates.
 W Baltic - Koster Area, Norway, "Cosmopolitan"
- B. benedeni** (Foettinger, 1886)
 = *Pedicellina benedeni* Foettinger, 1886
 W Baltic, Ostende, Hull, Mediterranean, Cape Cod, Japan
- B. elongata** Jullien & Calvet, 1903
 @ on *Flustra* and various hard substrata.
 Skagerrak, W North Sea, Helgoland, Mediterranean, Newfoundland
- B. matsushimana** Toriumi, 1951
 @ on various living or non-living substrata.
 W Baltic, N Öresund - Skagerrak, Isle of Man, U.S. West coast, Japan
- B. ramosa** (Robertson, 1900)
 Puget Sound - California, Harbour of Doel (near Antwerpen) 1962, but not found afterwards there or in any other place in Europe.
- B. major** Hincks, 1888
 Spitzbergen
- B. bulbosa** Hincks, 1880 (TM)
 Barents Sea
- B. variatculata** K.A. Andersson, 1902
 Franz-Josef's Fjord
- B. laxa** Kirkpatrick, 1890
 * This species has frequently been reported from Northern Europe, but all identifications have been found to be wrong, so it should really vanish from lists like this.
- B. mutabilis** (Toriumi, 1951)
 * Doubtful species. Sensu P. Emschermann may odd growth forms of other species be hidden behind this name.
 Wales, Japan
- B. stiria** Jullien & Calvet, 1903
 * An unrecognizable species.
 Gulf of Gasconne in 135 m.
- Urnatella** Leidy, 1851 (TM *U. gracilis* Leidy, 1851 - fresh water)
 * Fresh water taxon.
- Loxokalypodidae** Emschermann, 1972
- Loxokalypus** Emschermann, 1972 (TM *L. socialis* Emschermann, 1972 - N Pacific)
- CYCLIOPHORA** P. Funch & R. Møbjerg Kristensen, 1995

EUCYCLIOPHORA P. Funch & R. Møbjerg Kristensen, 1995

SYMBIIDA P. Funch & R. Møbjerg Kristensen, 1995

Symbiidae P. Funch & R. Møbjerg Kristensen, 1995

Symbion P. Funch & R. Møbjerg Kristensen, 1995

S. pandora P. Funch & R. Møbjerg Kristensen, 1995 (TM)
@ mouth parts & their setae of *Nephrops norvegicus*
Kattegatt, Gullmarfjord, Faeroes

S. sp.: R.M. Kristensen (pers.comm.)
@ *Homarus gammarus* & sporadically on *Nephrops norvegicus*
* This species has almost the double size of *S. pandora*.
Scandinavia

S. sp.: R.M. Kristensen (pers.comm.)
@ *Homarus americanus*
E North America (& on *H. americanus* transferred to European seas)

PRIAPULIDA Théel, 1906

= **PRIAPULA** (4 Scandinavian spp.)

PRIAPULIMORPHIDIA Salvini-Plawen, 1974

Priapulidae Gosse, 1855

Priapulus de Lamarck, 1816
= *Priapus* Linnaeus, 1758 (p.p.)

P. caudatus de Lamarck, 1816 (TM)
= *Priapus humanus* Linnaeus, 1758 * Is this a nomen nudum?
Bohuslän - S Baltic, all Norway, Britain

Priapulopsis Koren & Danielssen, 1875

P. bicaudatus (Danielssen, 1868)
= *Priapus bicaudatus* Danielssen, 1868 (TM)
Norwegian Sea, N Troms - NE Finnmark, Arctic region

Tubiluchidae van der Land, 1970

Tubiluchus van der Land, 1968 (TM *T. corallicola* van der Land, 1968 - Curaçao)

T. arcticus Adrianov, Malakhov, Tchesunov & Tzetlin, 1989
* Described from females only.
The mouth of the White Sea

T. sp.
* Only females found so far. According to Kristensen (pers. comm) the specimens from this population look more like animals from Bermudas than those from the White Sea. Furthermore Parra & Benito 1994 found larvae of this genus in Biscay.
Bohuslän, in shell-gravel (Kalkgrund off Nord-Koster)

HALICRYPTOMORPHIDIA Adrianov & Malakhov, 1995

Halicryptidae Salvini-Plawen, 1974

Halicryptus v. Siebold, 1849

H. spinulosus v. Siebold, 1849 (TM)
Baltic - Öresund, Kungsbackafj., Iddefjorden, Trondheim, The Arctic

SETICORONARIDIA Salvini-Plawen, 1974

* Not represented in the area.

KINORHYNCHA Reinhard, 1887

= **ECHINODERA** Gosse, 1864

* Several larval forms were once described as separate species. Many of those have not yet been correlated with adults, and perhaps never will. Names of such larvae are included here for the sake of completeness.)

CYCLORHAGIDA Zelinka, 1896

CYCLORHAGAE Zelinka, 1896

Echinoderidae Bütschli, 1876

Echinoderes Claparède, 1863

E. borealis Greeff, 1869 * Description based on immature stage. Species indeterminatus
Belgium

E. dujardini Claparède, 1863 (TM)
Baltic, Bergen, Netherlands, Britain, Roscoff, Ireland, etc.

E. elongatus (Nyholm, 1947)
Gullmarfjord, Britain

E. ferrugineus Zelinka, 1928
N Europe

E. gracilis (Zelinka, 1928) * Description based on immature stage.
Gullmarfjord, Mediterranean

E. greeffi (Zelinka, 1928) * Description based on immature stage.
Helgoland

E. krishnaswamyi Higgins, 1985
Plymouth

E. kristenseni Higgins, 1985
Roscoff

E. lanuginosa Greeff, 1869 * Description based on immature stage.
Belgium

E. levanderi Karling, 1954
Baltic

E. minimus Zelinka, 1928 * Description based on immature stage.

Gullmarfjord, Mediterranean

E. monocercus Claparède, 1863 * Description based on immature stage.
Bergen, France, Mediterranean

E. setiger Greeff, 1869
Bergen, Belgium, Britain

E. worthingi Southern, 1914
Plymouth, Roscoff, Ireland

Zelinkaderidae Higgins, 1990

Zelinkaderes Higgins, 1990 (TM *Z. floridensis* Higgins, 1990 - Florida)

Z. submersus (Gerlach, 1969)
= *Cateria submersa* Gerlach, 1969
North Sea

Centroderidae Zelinka, 1896

Campyloderes Zelinka, 1913 (TM *C. vanhoeffeni* Zelinka, 1913 - Antarctic)

C. adherens Nyholm, 1947
Gullmarfjord area

C. macquariae Johnston, 1938
North Sea, W Atlantic, S Pacific

Condyloderes Higgins, 1969

C. multispinosus (McIntyre, 1962)
= *Centroderes multispinosus* McIntyre, 1962 (TM)
Scotland

Centroderes Zelinka, 1907
* Nyholm, 1947 states that this genus is represented on the Swedish West Coast.

C. spinosus (Reinhard, 1881)
Br. Isles

Dracoderidae Higgins, 1960
* No species in the area.

CONCHORHAGAE Zelinka, 1896

Semnoderidae Remane, 1936

Semnoderes Zelinka, 1907

S. armiger Zelinka, 1928 (TM)
Gullmarfjord area, Scotland

CRYPTORHAGAE Higgins, 1968
* No species in the area.

HOMALORHAGIDA Zelinka, 1896

HOMALORHAGAE Zelinka, 1896

Neocentrophylidae Higgins, 1969

Paracentrophyes Higgins, 1983 (TM *P. praedictus* Higgins, 1983 - Belize)

P. quadridentatus (Zelinka, 1928)
= *Pycnophyes quadridentata* Zelinka, 1928
= *Pycnophyes flagellatus* Zelinka, 1928
W Sweden, Mediterranean

Pycnophylidae Zelinka, 1896

Pycnophyes Zelinka, 1907

P. biserratus (Zelinka, 1928) * This is a larval stage (*Centrophyes*).
W Sweden, Mediterranean

P. calmani Southern, 1914
= *P. communis* Nyholm, 1947 & Lang, 1949; non Zelinka
Öresund, Britain, Ireland

P. curvatus (Zelinka, 1928) * This is a larval stage (*Centrophyes*).
W Sweden, Mediterranean

P. communis Zelinka, 1908
= *Centrophyes longihastatus* Zelinka, 1928
Baltic, Gullmarfjord, Mediterranean

P. dentatus (Reinhard, 1881)
Kiel, Ireland, Netherlands, Britain,

P. denticulatus (Zelinka, 1928) * This is a larval stage (*Centrophyes*).
Britain (Fladden), Mediterranean

P. flaveolatus Zelinka, 1928
Gullmarfjord, Öresund, Mediterranean

P. kielensis Zelinka, 1928
= *Hyalophyes pellucidus* (Reinhard, 1881)
Kiel, Öresund

P. maximus Reimer, 1963
Baltic (Kadetrinne)

P. moderatus (Zelinka, 1928) * This is a larval stage (*Centrophyes*).
W Sweden, Mediterranean

P. rectilineatus (Zelinka, 1928) * This is a larval stage (*Centrophyes*).
W Sweden, Mediterranean

P. zelinkae Southern, 1914 (TM)
Ireland, Britain (Fladden)

Kinorhynchus Sheremetevskij, 1974 (TM *K. paraneapolitanus* Sheremetevskij, 1974 - Black Sea)

K. giganteus (Zelinka, 1928)
= *Trachydemus giganteus* Zelinka, 1928

Kiel, Mediterranean

LORICIFERA Kristensen,1983

Kristensen,1983
NANALORICIDA

Nanaloricidae Kristensen,1983

Nanaloricus Kristensen,1983

N. mysticus Kristensen,1983 (TM)

Engl. Channel, Faeroe Banks, Mediterranean, Öresund? (If the Loricifera reported from Scandinavia are identical with *N. mysticus* is not known yet. The genus is however known from larvae in Öresund)

Pliciloricidae Higgins & Kristensen,1986

Rugiloricus Higgins & Kristensen,1986 (*R. cauliculus* Higgins & Kristensen,1986 - South Carolina)

R. sp.
Bohuslän (so far only larvae observed according to Kristensen (pers.comm.))

Pliciloricus Higgins & Kristensen,1986 (TM *P. enigmaticus* Higgins & Kristensen,1986 - North Carolina)

MESOZOA van Beneden,1877

* This taxon should perhaps best be treated as unnatural, separating the two groups involved into two different phylas.

RHOMBOZOA

@ Parasites in excretory organs of chiefly non-pelagic Cephalopoda

* Dicyemids have also been found in *Sagittatus sagittatus* & *Loligo vulgaris*, but not in *L. forbesi* from Helgoland.

DICYEMIDA

Dicyemidae

Dicyema von Kölliker,1849

D. paradoxum von Kölliker,1849
= *Dicyema clausianum* ?,1??
@ *Octopus vulgaris*, *Octopus macropus*
Engl. Channel, Mediterranean

D. typus van Beneden,1876
@ *Octopus vulgaris*
Engl. Channel, Mediterranean

D. moschatum Whitman,1883?
@ *Sepioteuthis oweniana*, *Sepioteuthis moschata*
Mediterranean

D. macrocephalum van Beneden,1876
@ e.g. *Sepioteuthis oweniana*, *Sepioteuthis steenstrupiana*, *Sepia elegans* (*S. biserialis*)
Mediterranean

D. microcephalum Whitman,1883
@ e.g. *Sepioteuthis steenstrupiana*
Mediterranean

D. schulzianum ?van Beneden,1876?
@ e.g. *Sepia elegans*
Mediterranean

D. rondeletioleae ?Nouvel,1944?
@ e.g. *Sepioteuthis oweniana*
Mediterranean

Pseudicyema Nouvel,1933

P. truncatum (Whitman,1883)
@ e.g. *Rossia macrosoma* & *Sepia officinalis*
Bohuslän, Engl. Channel, Mediterranean

Dicyemenea Whitman,1883?

D. eledones (Wagner,1857)
= *D. muelleri* Claparède,18??
@ *Eledone cirrhosa*, *E. moschata*
Bohuslän, Norway, Engl. Channel, Mediterranean

D. lameerei Nouvel,1932
@ *Eledone cirrhosa* & *Octopus vulgaris*
Engl. Channel, Mediterranean

D. gracile (?Wagner,1857)
= *Dicyemina koellikeriana* ?,1??
@ e.g. *Sepia officinalis*
Engl. Channel

HETEROCYEMIDA

Conocyemidae Stunkard,1937
= **Heterocyemidae**

Conocyema van Beneden,1882

C. polymorpha van Beneden,1882?
@ *Octopus vulgaris*
Mediterranean

Microcyema van Beneden,1882

M. vespa van Beneden,1882?
@ *Sepia officinalis*
Engl. Channel, Mediterranean

ORTHONECTIDA

PLASMODIGENEA

Rhopaluridae Stunkard,19??
= **Orthonectidae** Hartmann,1???

Rhopalura Giard,1877

R. philinae Lang,1954
@ *Philina scabra*
Bohuslän

R. granosa Atkins,1933
@ *Heteronomia squamula*
Britain

R. paraphanostomae Westblad,1942
@ *Paraphanostoma macroposthium* & *P. brachyposthium*
Gullmarfjord

R. ophiocomae Giard,1877
* Mortensen,1924 is using the name *R. giardii* Metschnikoff as the name of the parasite in *Axiognathus*
@ gonads of *Axiognathus squamatus*, *Ophiotrix fragilis* & *Ophiura albida*
Bergen, Britain

R. julini Caullery & Mesnil,1901?
@ in the coelom of *Malacoceros fuliginosus*
?

R. pterocirri de Saint-Joseph,1896
@ *Pterocirrus macroceros*
?

R. metschnikovi Caullery & Mesnil,1901?
@ in the coelom of *Spio martinensis* and in mesenchyma and gut wall of *Tetrastemma flavidum* & *Amphiporus ochraceus*
?

R. pelseeneeri Caullery & Mesnil,1901
@ in mesenchyma and gut wall of *Tetrastemma flavidum* & *T. vermiculus*
Vauville (France)

R. pelseeneeri var. **vermiculicola** Caullery,1914
@ *Tetrastemma vermiculus*
Wimereux (France)

R. intoshi Metschnikoff,1881
@ *Lineus lacteus*
Mediterranean

R. litoralis Shtein,1954
@ *Rissoa oculatus* & *Columbella rosacea*
Barents Sea

R. major Shtein,1954
@ *Lepeta caeca*, *Natica clausa* & *Solariella* sp.
Barents Sea

?**R.** sp. : Punnett,1901
@ *Lineus gesserensis*
Britain

Intoshia Giard,1877

I. leptoplanae Giard,1877
@ In gut of *Leptoplana tremellaris*
Roscoff

I. linei Giard,1877
@ In skin and gut epithelium of *Lineus ruber*
Roscoff

Stoecharthrum Caullery & Mesnil,1899

S. giardi Caullery & Mesnil,1899
@ In the coelom of *Scoloplos armiger*
?

S. sp. : Foster,1982
@ *Mytilus edulis*
NE Pacific (Washington)

Rhopalura ? sp. Fauvel,1897
@ *Ampharete acutifrons*
?

Rhopalura ? sp. Arwidsson,1903
@ *Nicomache lumbricalis*
?

Heteronectidae

Pelmatosphaera Caullery & Mesnil,1904

P. polycirri Caullery & Mesnil,1904
@ In the coelom of *Polycirrus haematodes*
E & W Scotland

ACANTHOCEPHALA Kohlreuther,1771

EOACANTHOCEPHALA Van Cleave,1936

NEOECHINORHYNCHIDA Southwell & Macfie,1925

Neoechinorhynchidae Van Cleave,1919

Neoechinorhynchus Hamann, in Stiles & Hassall,1905
= *Neorhynchus* Hamann,1892, non Sclater,1869 (Aves) nee Milne-Edwards,1879 (Crustacea)

N. rutili (Müller,1776) (TM)
@ in freshwater fishes and eels.
Baltic

N. agilis (Risso,17??)
@ in *Mugil* spp. and salmon?
Mediterranean, Scotland?, North Sea?

Tenuisentidae Van Cleave,1936

Paratenuisentis ??,19??

P. ambiguus (Van Cleave,1921)
@ *Anguilla anguilla* & *Gammarus tigrinus* (only intermediate host)

introduced from N America to Germany & Netherlands

PALAEACANTHOCEPHALA Meyer,1931

ECHINORHYNCHIDA Southwell & Macfie,1925

Rhadiorhynchidae Travassos,1923

Rhadiorhynchus Lühe,1911
= *Nipporhynchus* Chandler,1934
= *Echinosome* Porta,1907 (p.p.)

R. pristi (Rudolphi,1802) (TM)
=? *R. alosae* (Hermann,1782)
=? *Echinorhynchus subulatus* Zeder,1803
@ in e.g. *Thynnus*, *Scomber*, *Belone*, *Box*, *Brama*, *Gadus* & *Alosa* spp.
Atlantic, Mediterranean

Leptorhynchoides Kostylew,1924

L. plagicephalus (Westrumb, 1821) (TM)
@ in *Acipenser* spp.
Baltic?, Black Sea, Caspian Sea

Pomphorhynchidae Yamaguti,1939

Pomphorhynchus Monticelli,1905, emm. Lühe,1911

P. laevis (Zoega, in Müller,1776) (TM)
= *Echinorhynchus gobii* Viborg,1795
= *Echinorhynchus proteus* Westrumb,1821 (p.p.)
@ in many fishes of both seawater- and freshwater origin and exceptionally in dolphins.
Baltic, White Sea, Arctic Seas

P. tereticolle (Rudolphi,1809)
= *Echinorhynchus doublae* Schrank,1790 (p.p.)
= *Echinorhynchus attenuatus* Müller,1779 (p.p.)
= *Echinorhynchus piscinus* Zeder,1800 (p.p.)
= *Echinorhynchus longicollis* Pallas,1781 (p.p.)
@ in e.g. *Bleinnius viviparus*, *Cottus scorpius*, *Cyprinus*, *Acerina*, *Platessa*, *Zoarces*, *Gadus* & *Acipenser*
Denmark, Ireland, "Europe"

Echinorhynchidae Cobbold,1879

Echinorhynchinae Travassos,1920

Acanthocephalus Koelreuter,1771, emm. Lühe,1911

A. anguillae (O.F. Müller,1780) (TM)
= *Echinorhynchus globulosus* Rudolphi,1809
@ chiefly in *Tinca tinca*, but also in e.g. eels and flounders.
Baltic

A. lucii (O.F. Müller,1777)
= *Echinorhynchus angustatus* Rudolphi,1809
@ chiefly predatory freshwater fishes, but also e.g. *Hippoglossoides platessoides*, *Platichthys flesus* & *Clupea harengus*
Baltic

Echinorhynchus Zoega, in Müller,1776, emm. Lühe,1911

E. salmonis Müller,1776 (TM of *Metechinorhynchus* Petroschenko,1956)
@ chiefly freshwater fishes, but also e.g. eel, flatfishes, salmon, cod & *Zoarces*; intermediate host: *Pontoporeia affinis*
Baltic

E. clavula Dujardin,1845
@ freshwater fishes and eel; intermediate host: *Gammarus pulex*
Baltic

E. gadi Zoega, in Müller,1776 (TM)
= *E. acus* Rudolphi,1802
@ in a spectrum of both saltwater and freshwater fishes ; intermediate hosts: e.g. *Amphithoe rubricata*, *Calliopius laevisculus*, *Gammarus locusta*, *Pontoporeia femorata*
Baltic - Bohuslän, North Sea, Britain, Barents Sea, White Sea, etc.

E. truttiae Schrank,1788
= *Metechinorhynchus truttiae* : Auctt.
@ *Salmo faria*, *Thymallus thymallus*, *Esox lucius*
North Sea

E. serpentulus Grimm,1870
@ *Cottus quadricornis*
White Sea

E. cestodicola von Linstow,1905
@ on "*Bothriocephalus nigropunctatus*" in *Sebastes norvegicus*
Murmansk

POLYMORPHIDA

Polymorphidae Meyer,1931

Arhythmorhynchus Lühe,1911

A. longicolle (Villot,1875)
@ *Larus ridibundus*, *L. canus*, *Mergus merganser*, *Arenaria interpres*, *Erolia maritima*
Britain, Europe, Barents Sea, Arctic

A. invaginabile (von Linstow,1890)
@ in *Numenius arquatus*
Europe

A. invaginabile suecicum Lundström,1942
@ *Anthus spinoletta littoralis*
Sweden

A. frassoni (Molin,1858) (TM)
@ in *Numenius* spp., *Mergus serrator* & ?*Larus marinus*
Europe

A. roseum (Molin,1858)
@ *Cantharus vulgaris* ; 1st interm. host: *Palaemon squilla* ; 2nd interm. host: *Platessa passer*, *Leuciscus* sp.
Europe

Corynosoma Lühe,1905

C. strumosum (Rudolphi,1802)

= *Echinorhynchus strumosus* Rudolphi,1802 (p.p.) (TM)
= *Echinorhynchus ventricosus* Rudolphi,1809
= *Echinorhynchus hystrix* Bremser,1824 (p.p.)
= *Echinorhynchus striatus* Villot,1875
= *Echinorhynchus gibber* Olsson,1894 (p.p.)
@ adults in intestine of mammals, e.g. *Phoca*, *Phocaena*, *Halichoerus*, *Mustela* or birds, e.g. *Phalacrocorax*, *Larus*, *Pelecanus* ; intermediate hosts: marine amphipoda; larvae encysted in fishes (transport hosts), e.g. *Cottus*, *Clupea*, *Pleuronectes*, *Anguilla*
Bothnian Bay (in *Phoca hispida*), Kattegatt - Skagerrak area (in *Phoca vitulina*), Europe

C. semerme (Forsell,1904) Lühe,1911
= *Echinorhynchus semerme* Forsell,1904
= *Echinorhynchus strumosum* Rudolphi,1802 (p.p.)
= *Echinorhynchus hystrix* Bremser,1824 (p.p.)
@ adults in seals, e.g. *Phoca*, *Phocaena*, *Cystophora*, *Odobenus*, *Otaria* , whales (*Phocaena phocaena*) or birds : e.g. *Phalacrocorax* & *Mergus* ; intermediate hosts: amphipoda ; transport hosts: fishes, e.g. *Myoxocephalus*, *Clupea*, *Pleuronectes*, *Rhombus*, *Gasterosteus*
Europe, e.g. Bothnian Bay (in *Phoca hispida*), Greenland, Arctic region

C. reductum (von Linstow,1905)
= *Echinorhynchus reductus* von Linstow,1905
@ *Phoca hispida*
Arctic region

C. mergi Lundström,1941
@ *Mergus serrator*, *Cephus grylle grylle*, *Phalacrocorax carbo*
Europe

C. tunitae (Weiss,1941)
@ *Sula bassana*, *Phalacrocorax* spp.
Shetlands, Britain, Tunisia

Bolbosoma Porta,1908
= *Bolborhynchus* Porta,1906, non Bonaparte,1857 (Aves)

B. balaenae (Gmelin,1790)
= *Sipunculus lendix* Phipps,1774 (nomen oblitum?)
= *Echinorhynchus balaenae* Gmelin,1790
= *Echinorhynchus porrigens* Rudolphi,1819
@ intestine of *Balaenoptera*, *Megaptera*, *Balaena* & *Hyperoodon*
Iceland, Australia

B. capitatum (von Linstow,1880)
= *Echinorhynchus capitatus* von Linstow,1880
@ intestine of *Pseudorca crassidens*, *Globicephalus melas*, *Physeter macrocephalus*, *Steno rostratus* & *Megaptera boops* ?
Iceland, Faeroes, Mediterranean

B. turbinella (Diesing,1851) (TM)
= *Echinorhynchus turbinella* Diesing,1851
= *Echinorhynchus balaenocephalus* Owen,1803
= *Echinorhynchus ruber* Collett,1886
@ intestine of e.g. *Balaenoptera* spp. & *Hyperoodon rostratus*
Subarctic - N & S Atlantic, Pacific

B. brevicolle (Malm,1867)
= *Echinorhynchus brevicollis* Malm,1867
@ in *Balaenoptera* spp. & *Physeter macrocephalus*
North Atlantic, e.g. Sweden (in the "Malmska hvalen"), S Africa

B. vasculosum (Rudolphi,1819)
= *Echinorhynchus vasculosus* Rudolphi,1819
= *Echinorhynchus aurantiacus* Risso,1826
= *Echinorhynchus pellucidus* Leuckart,1828
= *Echinorhynchus annulatus* Molin,1856
= *Echinorhynchus serrani* Linton,1888
= *Echinorhynchus bifasciatus* Lühe,1904
@ intestine of *Delphinus delphis* & *Mesoplodon bidens* (larvae in teleosts)
Atlantic, Mediterranean

B. heteracanthis (Heitz,1918)
@ Body cavity & pyloric appendages of *Salmo salar*
Europe

Polymorphus Lühe,1911

P. (Polymorphus) boschadis (Schrank,1788) (TM)
@ adults in birds, e.g. *Larus*, *Uria*, *Cygnus*, *Anas*, *Tadorna* ; development in *Gammarus pulex* ; teleosts, e.g. *Trachinus*, *Gobius*, *Cyclopterus*, *Anguilla* may be intermediate hosts
Europe

P. minutus (Goeze,1782)
@ Egypt, in different "waterbirds", e.g. *Somateria*, *Anas*, *Cygnus*, *Uria*, *Harelda* ; larval development in e.g. *Gammarus* & *Potamobius*
Murmansk

P. phippsi Kostylev,1922
@ in *Somateria mollissima*
Murmansk

P. magnus Skrzabin,1913
@ in *Fuligula rufina* and *Bucephala clangula*
Russia

P. (Profilicollis Meyer,1931) **botulus** (Van Cleave,1916)
@ *Somateria mollissima* ; Larvae in *Carcinus maenas*, *Hyas araneus* & *Pagurus pubescens*
Europe, e.g. Waddenzee, Britain, Arctic Seas

Filicollis Lühe,1911

F. anatis (Schrank,1788) (TM)
@ e.g. *Larus*, *Somateria*, *Tadorna*, *Cygnus*, *Mergus*, *Anser* ; development in *Asellus aquaticus*
Europe

Plagiorhynchidae Meyer,1931

Porrorhynchinae

Oligoterorhynchus Monticelli,1914

O. campylurus (Nitzsch,1857) (TM)
@ in e.g. *Stercorarius scua*
N Europe

Plagiorhynchinae Meyer,1931

Plagiorhynchus Lühe, 1911

P. crassicollis (Villot, 1875) ^(TM)
= *P. lanceolatus* (von Linstow, 1876)
@ in different birds, e.g. oystercatcher
Europe, Greenland

P. lineare (Westrumb, 1821)
@ *Sterna sandvicensis*, *Rissa tridactyla*
Europe

P. odhneri Lundström, 1942
@ in different birds, e.g. oystercatcher
Sweden

NEMATOMORPHA Vejdovsky, 1886

NECTONEMATOIDEA Rauther, 1930

NECTONEMATIDA

Nectonematidae

Nectonema Verrill, 1879

N. munidae Brinkmann, 1930
@ in *Munida*, *Pagurus pubescens* & *Pontophilus norvegicus*
Bergen

N. svensksundi Bock, 1908
@ ?
Spitzbergen

N. agile Verrill, 1879 ^(TM)
@ in pagurides, *Palaemon serratus*, *Liocarcinus pusillus* & *Palaemonetes vulgaris*
Roscoff, Massachusetts

GASTROTRICHA Metschnikoff, 1864

MACRODASYIDA Remane, 1924

Dactylopodolidae Strand, 1929

Dactylopodola Strand, 1929
= *Dactylopodalia* Remane, in Kükenthal & Krumbach, 1929
= *Dactylopodella* Remane, 1926, non G.O. Sars, 1905 (Crustacea)

D. baltica (Remane, 1926) ^(TM)
Sweden

D. typhle (Remane, 1927)
= *D. weilli* d'Hondt, 1965
Helgoland, Arcachon

D. cornuta cornuta (Swedmark, 1956)
= *Dactylopodalia cornuta* Swedmark, 1956
Helgoland, Engl. Channel, Roscoff

D. cornuta brevis d'Hondt, 1966
Arcachon

D. roscovita (Swedmark, 1967)
Roscoff

Dendrodasys Wilke, 1954

D. gracilis Wilke, 1954 ^(TM)
Scotland

Xenodasys Swedmark, 1967
= *Chordodasys*

X. sanctigoulvini Swedmark, 1967
Roscoff

X. riedli Schöpfer-Sterrer, 1969
Scotland

Lepidodasyidae Remane, 1927

Lepidodasys Remane, 1926

L. martini Remane, 1926 ^(TM)
Sweden, Baltic, Bergen, North Sea

L. platyurus Remane, 1927
Baltic, Irish Sea, Mediterranean

Cephalodasys Remane, 1926

C. maximus Remane, 1926 ^(TM)
Kiel, Sylt, Bergen

C. turbanelloides (Boaden, 1960)
Sweden, Arcachon, Irish Sea

C. cambriensis (Boaden, 1963)
Wales, Roscoff

C. littoralis Renaud-Debyser, 1964
Scotland, Arcachon

Dolichodasys Gagne, 1977

D. elongatus Gagne, 1977 ^(TM)

D. carolinensis Ruppert & Shaw, 1977
Scotland

Megadasys Schmidt, 1974
= *Thiodasys* Boaden, 1974

M. sterreri (Boaden, 1974)

= *M. minor* Kisielewski, 1987
Bergen, Scotland

Mesodasys Remane, 1951

M. laticaudatus Remane, 1951
= *M. lobocercus* (Boaden, 1960)
Sweden, Kiel, Bergen, Sylt

M. littoralis Remane, 1951
Arcachon, Napoli

Paradasys Remane, 1934

P. subterraneus Remane, 1934 ^(TM)
Helgoland, Baltic, Tromsø, Engl. Channel

P. hexadactylis Karling, 1954
Sweden, Arcachon, Irish Sea

Pleurodasys Remane, 1927

P. helgolandicus Remane, 1927 ^(TM)
= *P. megasoma* (Boaden, 1963)
Poland, Helgoland, Wales, Arcachon, Engl. Channel

Macrodasysidae Remane, 1927

Macrodasys Remane, 1924

M. buddenbrocki Remane, 1924 ^(TM)
Sweden, Baltic, Bergen, ?Tromsø, North Sea, Irish Sea

M. cephalatus Remane, 1927
Bergen, Helgoland

M. caudatus Remane, 1927
Helgoland, Arcachon, Roscoff, Irish Sea

M. affinis Remane, 1936
Sylt, Engl. Channel

M. balticus Roszczak, 1939
Poland

M. remanei Boaden, 1963
Wales

M. sp. Remane, 1963
Helgoland

M. sp. Boaden, 1963
Wales

Urodasys Remane, 1926

U. mirabilis Remane, 1926 ^(TM)
= *U. roscovensis* (Kisielewski, 1987)
Oresund, Baltic, North Sea

U. sp. : ?, 19??
Arcachon

U. sp. : Clausen, 1991
Bergen

Chordodasys Schöpfer-Sterrer, 1969 ^(TM) *Chordodasys riedli* Schöpfer-Sterrer, 1969 -?
* Correct family? Published in Cah. de Biol. Marin 10:391-404.

Planodasyidae Rao & Clausen, 1970

Crasiella Clausen, 1968

C. diptura Clausen, 1968
Bergen, Scotland

C. oceanica d'Hondt, 1974
Roscoff

Planodasys ?, 19??
*No species within the area?

Thaumastodermatidae Remane, 1926

Thaumastodermatinae Remane, 1926

Platydasys Remane, 1927 non Butler, 1892 (Lepidoptera)
* The name should be changed

P. maximus maximus Remane, 1927 ^(TM)
Poland, Bergen, Irish Sea

P. maximus celticus Swedmark, 1955
Roscoff

P. rarus Forneris, 1961
Helgoland

P. mastiguris Clausen, 1965
Bergen

P. ocellatus Clausen, 1965
Bergen

P. brachycephalus Lévi, 1954
Roscoff, N Ireland

P. ruber Swedmark, 1956
W France

P. schultzi Remane, 1940 (nomen nudum)
* Not mentioned in Renaud-Mornant, 1986 (Stygod. Mundi)
Baltic

Pseudostomella Swedmark, 1956

- P. roscovita* Swedmark,1956 (TM - Roscoff)
North Sea, Engl. Channel, Roscoff
- Ptychostomella* Remane,1926
- P. ommatophora* Remane,1927
Sweden, Denmark, Germany
- P. pectinata* Remane,1926 (TM)
Denmark, Kiel
- P. helena* Roszczak,1939
Poland
- P. bergensis* Clausen,1996
Bergen
- P. sp.* Forneris,1961
Helgoland
- Tetranchyoderma* Remane,1926
- T. hystrix* Remane,1926 (TM)
Kiel, Wales, France
- T. apum* Remane,1927
Helgoland, Engl. Channel
- T. polyacanthum* (Remane,1927)
= *Echinodasys polyacanthus* Remane,1927
Bergen, Helgoland, Engl. Channel, Irish Sea
- T. megastomum* (Remane,1927)
= *Echinodasys megastoma* Remane,1927
= *T. suecicum* Boaden,1960
Kiel, Sweden, Sylt, Engl. Channel, Roscoff
- T. cirrophora* Lévi,1950
Baltic, Sweden, Engl. Channel, Roscoff, Irish Sea
- T. coeliopodium* Boaden,1963
Ireland
- T. tribolusum* Clausen,1965
Bergen, Helgoland
- T. dragescoi* Swedmark,1967
Roscoff
- T. antennatum* Luporini & al.,1970
French Atlantic coast, Mediterranean
- T. massiliense* Swedmark,1956
European atlantic, Mediterranean
- T. pugetensis* Wieser,1957
Bergen
- T. thysanogaster* Boaden,1965
Bergen
- T. norvegicum* Clausen,1996
Bergen, Trondheim
- Thaumastoderma* Remane,1926
- T. heideri* Remane,1926 (TM)
Sweden, Baltic, Bergen, North Sea
- T. bifurcatum* Clausen,1991
Bergen, Trondheim, Tromsø
- T. truncatum* Clausen,1991
Bergen
- T. swedmarki* Lévi,1959
Roscoff
- T. cantacuzeni* Lévi,1958
Bretagne
- T. arcassonnense* d'Hondt,1965
Arcachon
- T. ramuliferum* Clausen,1965
Engl. Channel, Mediterranean
- T. renaudae* Kisielowski,1987
France (north or west coast)
- Diplodasyinae
- Acanthodasys* Remane,1927
- A. aculeatus* Remane,1927 (TM)
Sweden, Baltic, North Sea, Irish Sea, Roscoff
- A. arcassonnensis* Kisielowski,1987
Arcachon
- A. sp.* Forneris,1961
Sylt
- Diplodasys* Remane,1927 (TM *D. platydasyoides* Remane,1927 - Mediterranean)
- D. minor* Remane,1927
Helgoland
- D. ankei ankei* Wilke,1954
Sweden, North Sea, Bergen
- D. caudatus* Kisielowski,1987
W France
- D. swedmarki* Kisielowski,1987
W France
- Hemidasys* Claparède,1867
- Turbanellidae Remane,1925
- Turbanella* M. Schultze,1853
- T. hyalina* M. Schultze,1853 (TM)
= *T. varians* Maguire,1976 (p.p.)
Sweden, Baltic, North Sea
- T. (Zelinkia) plana* (A. Giard,1904)
France
- T. cornuta* Remane,1925
= *T. varians* Maguire,1976 (p.p.)
Sweden, Bergen, "cosmopolite"
- T. subterranea* Remane,1934
Sylt, Baltic
- T. ambronensis* Remane,1943
= *T. digitifera* d'Hondt,1965
Sylt, European atlantic
- T. lutheri* Remane,1952
Stockholm, Bergen, North Sea
- T. remanei* Forneris,1961
Kiel, North Sea
- T. otti* Schrom,1977
= *T. mustela* Wieser,1957
Arcachon
- T. bocqueti* Kaplan,1958
Engl. Channel
- T. multidigitata* Kisielowski,1987
W France
- Desmodasys* Clausen,1965
- D. phocoides* Clausen,1965 (TM)
Bergen
- Dinodasys* Remane,1927
- D. mirabilis* Remane,1927 (TM)
Sweden, Baltic, North Sea, Roscoff
- Paraturbanella* Remane,1927
- P. dohrni* Remane,1927 (TM)
Kiel, Sylt
- P. scanica* Clausen,1996
Bergen, Trondheim, Tromsø
- P. teissieri* Swedmark,1954
Sylt, Engl. Channel, Wales
- P. armoricana* (Swedmark,1954)
Roscoff
- P. intermedia* Wieser,1957
N Ireland
- P. pallida pallida* Luporini & al.,1971
England
- P. cuanensis* Maguire,1976
Ireland, England
- P. eireanna* Maguire,1976
N Ireland
- P. sp.* : Schmidt,1972
Tromsø
- Pseudoturbanella* d'Hondt,1968
- P. stylifera* d'Hondt,1968 (TM)
France (Landes)
- CHAETONOTIDA Remane,1924
- MULTITUBULATINA d'Hondt,1971
- Neodasyidae Remane,1929
- Neodasys* Remane,1927
- N. chaetonotoideus* Remane,1927 (TM)
Sylt, Baltic, Arcachon, Irish Sea
- N. uchidai* Remane,1961
Sylt, Mediterranean
- PAUCITUBULATINA d'Hondt,1971
- Xenotrichulidae Remane,1927
- Draculiciterinae
- Draculiciteria* Hummon,1974
- D. tessellata* (Renaud-Mornant,1968)
=? *Xenotrichuloides mirabilis* d'Hondt,1967
Mediterranean, Arcachon?
- Xenotrichulinae Remane,1927
- Heteroxenotrichula* Wilke,1954
- H. pygmaea* (Remane,1934)
= *Xenotrichula flandrensis* d'Hondt,1968

Öresund, Schilksee, Arcachon

H. affinis (Remane,1934)
Öresund, Arcachon, North Sea

H. subterranea (Remane,1934)
Öresund, Arcachon, North Sea

H. arcassonensis Ruppert,1979
Britain, Arcachon

H. wilkeae Ruppert,1979
Arcachon, German North Sea coast

H. squamosa Wilke,1954 (TM)
North Sea, Mediterranean

Xenotrichula Remane,1927

X. velox Remane,1927
Baltic, Öresund, Irish Sea

X. intermedia Remane,1934
= *X. beachampi* Lévi,1950
= ? *X. punctata* Wilke,1954
* Renaud-Mornant,1986 is keeping *X. punctata* as a separate sp., known from European Atlantic & the Mediterranean.
Öresund, Tromsø, Schilksee, Amrum, Roscoff, "cosmopolite"

X. cornuta Wilke,1954
S North Sea, Flander Coast.

X. variocirrata d'Hondt,1966
Arcachon

X. gymnocephala Remane,1940 (nomen nudum)
Baltic

X. micracantha (Remane,1926)
= *Chaetonotus micracanthus* Remane,1926 (TM)
Helgoland

X. bispina Roszczak,1979
Poland, Black Sea

X. simplex Mock,1979
Sylt

X. carolinensis Ruppert,1979 *syltensis* Mock,1979
Sylt

X. quadritubulata Kiseilewski,1988
W or N France

X. punctata Wilke,1954
* Possibly a synonym of *X. intermedia* Remane,1934. See above
Bergen?

Chaetonotidae Zelinka,1889

Ichthyidium Ehrenberg,1830 (TM *Cercaria podura* O.F. Müller,1786 - fresh water)

I. hummoni Ruppert,1977
Arcachon, Sylt

I. rostrum Roszczak,1968
Poland

I. rupperti Mock,1979
Sylt

I. supralittoralis Mock,1979
Sylt

Musellifer Hummon,1969

M. profundus Vivier,1974
Scotland

Halichaetonotus Remane,1936

H. aculifer aculifer (Gerlach,1953)
Kiel, Engl. Channel, Mediterranean

H. arenarius (d'Hondt,1971)
Roscoff

H. atlanticus Kiseilewski,1988
W France

H. balticus Kiseilewski,1974
Baltic

H. batillifer (Luporini & al.,1972)
France

H. dubius (Remane,1926)
= *H. decipiens* (Remane,1929)
Kiel, Helgoland

H. jucundus (d'Hondt,1971) emend. Mock,1979
Sylt, Ile Calot

H. lamellatus Kiseilewski,1974
Baltic

H. littoralis (d'Hondt,1971)
Roscoff

H. paradoxus (Remane,1927)
Arcachon, Mediterranean

H. pleuracanthus (Remane,1926)
Baltic, Engl. Channel, Ireland

H. schromi Kiseilewski,1974
= *H. jucundus* Schrom,1972 non (d'Hondt,1971)
Baltic, Sylt

H. spinosus Mock,1979
Baltic, Sylt, France

H. tentaculatus (d'Hondt,1971)
Arcachon

Chaetonotus Ehrenberg,1830

C. marinus Giard,1904
* Not mentioned in Renaud-Mornant,1986 (Stygod. Mundi)
Sweden, France

C. balticus Remane,1926
* Not mentioned in Renaud-Mornant,1986 (Stygod. Mundi)
Kiel

C. dispar Wilke,1954
Sweden, Roscoff, Mediterranean

C. atrox Wilke,1954
Sylt, Bretagne, Wales

C. condensus Mock,1979
Sylt

C. lacunosus Mock,1979
Sylt

C. somniculosus Mock,1979
Denmark, Sylt

C. tempestivus Mock,1979
Sylt

C. variosquamatus Mock,1979
Sylt

C. parthenopeius Wilke,1954
Engl. Channel, European atlantic, Mediterranean

C. oceanides d'Hondt,1971
* Not mentioned in Renaud-Mornant,1986 (Stygod. Mundi)
Ile Calot

C. inaequidentatus Kiseilewski,1988
Engl. Channel

C. larus (O.F. Müller,1773)
England

C. linguaeformis Voigt,1904
Netherlands

C. maximus Ehrenberg,1831
?

C. neptuni Wilke,1954
Belgium, France

C. persetosus Zelinka,1889
* Fresh-water species found in the Baltic
Poland

C. hystrix Metsch.,
* Not mentioned in Renaud-Mornant,1986 (Stygod. Mundi) * Fresh-water species found in the Baltic
Poland

Aspidiophorus Voigt,1904

A. bisquamatus Mock,1979
Sylt

A. marinus Remane,1926
Sweden, "cosmopolite"

A. mediterraneus Remane,1927
Engl. Channel, Mediterranean

A. ornatus Mock,1979
Sylt

A. squamulosus (Roszczak,1935)
Poland

A. paramediterraneus Hummon,1974
?

Heterolepidoderma Remane,1926

H. axi Mock,1979
Sylt

H. grandiculum Mock,1979
Sylt, Denmark, France

H. marinum Remane,1926
Kiel, North Sea, Roscoff

H. (?) dubium Remane,1927
* Not mentioned in Renaud-Mornant,1986 (Stygod. Mundi)
?

H. foliatum Renaud-Mornant,1967
* Fresh-water species found in the Baltic
Arcachon

H. ocellatum Metschnikoff,
* Not mentioned in Renaud-Mornant,1986 (Stygod. Mundi) * Fresh-water species found in the Baltic
Baltic

H. arenosum Kiseilewski,1988
Belgium, Engl. Channel

H. armatum Schrom,1966
Netherlands

H. clipeatum Schrom,1972
Belgium

Lepidodermella Blake,1933 (™ *Chaetonotus squamatus* Dujardin,1841 - fresh water)

L. limogena Schrom,1972
Scotland

L. punctatum (Greuter,19??)
* Not mentioned in Renaud-Mormant,1986 (Stygod. Mundi) *Fresh-water species found in the Baltic ?

L. squamatum psammicum Roszczak,1968
=? *L. squamatum* (Dujardin,1841)
*Fresh-water species found in the Baltic
Poland

ROTIFERA Cuvier,1798
= **ROTATORIA** Ehrenberg,1838

SEISONIDEA Bartos,1959
= **PARAROTATORIA** Sudzuki,1964

SEISONIDA Remane,1933

Seisonidae

Seison Grube,1859

S. nebaliae Grube,1859 (™)
Roscoff, Brest, on *Nebalia*

S. annulatus Claus,1876
Roscoff, W North Sea, on *Nebalia*

BDELLOIDEA Hudson & Gosse,1886
= **DIGONONTA** Wesenberg-Lund,1899

BDELLOIDA

Philodinidae Bryce,1910

Rotaria Scopoli,1777
= *Rotifer* Cuvier,1798

R. macroura (Schrank,1803)
= *Rotifer macrourus* Schrank,1803
= *Esechielina gracilicauda* Bory de St. Vincent,1826
Europe (in brackish water)

R. citrina (Ehrenberg,1838)
= *Rotifer citrinus* Ehrenberg,1838
= *Rotifer vulgaris* Schrank,
Europe (in the Sea and in brackish water)

R. rotatoria rotatoria (Pallas,1766)
= *Brachionus rotatorius* Pallas, 1766
= *Rotifer vulgaris* Schrank, 1801
Cosmopolitan, in limnic - marine waters

R. sp. (Remane,1949)
Helgoland, German North Sea part

Zelinkiella Haring,1913
= *Discopus Zelinka*,1888 non Thomson,1864 (Coleoptera)

Z. synaptae Lankester,1868
@ On *Leptosynapta* spp. including *L. inhaerens*
Engl. Channel, North Sea?

Philodina Ehrenberg,1830 emend. Bryce,1910

P. citrina Ehrenberg,1832
E Baltic, Bergen

P. roseola Ehrenberg,1832
Tvärminne, (in pools containing weak brackish water)

MONOGONONTA Plate,1889
= **EUROTATORIA** Bartos,1959

PLOIMA Remane,1933
= **PLOMIDA** Hudson & Gosse,1886

Colurellidae Bartos,1959

Lepadella Bory de St. Vincent,1826

L. psammophila Tschaschel,1979
Sylt, German North Sea beaches

L. oblonga (Ehrenberg,1834)
Tvärminne, in fresh-water rock-pools

L. patella (O.F. Müller,1786)
= *Brachionus patella* O.F. Müller,1786 (™)
Tvärminne

L. similis (Lucks,1912)
= *L. persimilis* De Ridder,1961
Tvärminne

L. quadricarinata (Stenroos,1898)
Tvärminne

L. triptera (Ehrenberg,1830)
Tvärminne

L. acuminata (Ehrenberg,1834)
Tvärminne, in fresh-water rock-pools

Colurella Bory de St. Vincent,1824

C. unicaudata Godske Eriksen,1968
Bergen, Tvärminne, Belgium

C. adriatica Ehrenberg,1831
W & N Norway, S Finland, Roscoff, Zuiderzee

C. colurus (Ehrenberg,1830)
Tvärminne, W & N Norway

C. dicentra (Gosse,1887)
Bergen

C. halophila Wulfert,1942
W Norway

C. uncinata (O.F. Müller,1773)
= *Brachionus uncinatus* O.F. Müller,1773 (™)
Tvärminne, Bergen

C. geophila Donner,1951
Tvärminne?

Lophocharis Ehrenberg,1838

L. salpina (Ehrenberg,1834) (™)
Roscoff

Brachionidae Wesenberg-Lund,1899

Brachionus Pallas,1766 (™ *Tubipora urceus* Linnaeus,1758 - probably synonym. to *B. urceolaris* Müller)

B. plicatilis O.F. Müller,1786
Tvärminne, Bergen, Roscoff

B. quadridentatus Hermann,1783
Tvärminne

B. rubens Ehrenberg,1838
Tvärminne, on *Daphnia magna* & *D. longispina*

B. urceolaris (O.F. Müller,1773)
Tvärminne, Bergen

Notholca Gosse,1886

N. acuminata (Ehrenberg,1832)
Tvärminne, Zuiderzee, W Norway, in fresh-water rock-pools

N. marina Focke,1961
=? *N. thalassia* Gosse, in Hudson & Gosse,1886
Malmö, Tvärminne, W Norway

N. striata (O.F. Müller,1786)
= *Brachionus striatus* O.F. Müller,1786
W & N? Norway, Tvärminne, N Germany, Zuiderzee

N. bipalium (Müller,1786)
= *Brachionus bipalium* O.F. Müller,1786
W Norway, Tvärminne

N. liepetterseini Godske Björklund,1972
W Norway

N. psammarina Buchholz & Rühmann,1956
German Baltic & North Sea coasts, Öresund, W Norway

N. caudata Carlin,1943
Tvärminne

N. labis Gosse, in Hudson & Gosse,1887
Tvärminne

N. salina Focke,1961
W Norway, German Baltic & North Sea coasts

N. squamula (O.F. Müller,1786)
= *Brachionus squamula* O.F. Müller,1786 (™)
Belgium, France

Pseudonotholca Marukawa,1928

P. japonica Marukawa,1928 (™)
N & W Norway

Argonotholca Gillard,1948

A. foliacea (Ehrenberg,1838) (™)
Tvärminne

Keratella Bory de St. Vincent,1822

K. cruciformis (Thompson,1892)
W Norway, planktonic, Roscoff

K. eichwaldi (Levander,1894)
Tvärminne, Zuiderzee

K. cochlearis (Gosse,1851)
Tvärminne, Zuiderzee

K. quadrata (O.F. Müller,1786)
= *Brachionus quadridentatus* O.F. Müller,1786 (™)
Tvärminne, Zuiderzee

Euchlanis Ehrenberg,1832

E. dilatata Ehrenberg,1832 (™)
Tvärminne

Tripleuchlanis Myers,1930

T. plicata (Levander,1894)
= *Euchlanis plicata* Levander,1894 (™)
Tvärminne

Kellicottia Ahlstrom,1938

- K. longispina* (Kellicott,1879)
= *Anuraea longispina* Kellicott,1879 (TM)
Europe, freshwater-species, sometimes found in brackish waters
- Platyias* Harring,1913
- P. quadricornis* (Ehrenberg,1832) (TM)
Belgium, Spain
- Mytilina* Bory de St. Vincent,1836
- M. mucronata* (O.F. Müller,1773)
= *Brachionus mucronatus* O.F. Müller,1773 (TM)
Tvärminne
- M. ventralis* (Ehrenberg,1832)
Tvärminne
- Trichotria* Bory de St. Vincent,1827
- T. pocillum* (O.F. Müller,1776)
= *Trichoda pocillum* O.F. Müller,1776 (TM)
Tvärminne
- Lecanidae Bartos,1959
- Lecane* Nitzsch,1827
= *Monostyla* Ehrenberg,1830
- L. ohioensis* (Herrick,1885)
Tvärminne
- L. closteroerca* (Schmarda,1859)
Tvärminne
- L. luna* (O. F. Müller,1776)
= *Cercaria luna* O.F. Müller,1776 (TM)
Tvärminne
- L. nana* (Murray,1913)
Tvärminne
- L. inermis* (Bryce,1892)
Tvärminne, in fresh-water rock-pools
- L. lunaris* (Ehrenberg,1832)
Tvärminne, in fresh-water rock-pools
- Proalidae Bartos,1959
- Proales* Gosse,1886
- P. germanica* Tschaschel,1979
Sylt, German North Sea coast
- P. halophila* (Remane,1929)
Tvärminne, German Baltic & North Sea coasts, W Norway
- P. oculata* Tschaschel,1979
Sylt, German North Sea coast
- P. syltensis* Tschaschel,1979
Sylt, German North Sea coast
- P. paguri* Thane-Fenichel,1966
Denmark, Roscoff
- P. gonothyraeae* Remane,1929
Roscoff, in the theca of *Gonothyraea loveni* Allman
- P. reinhardti* (Ehrenberg,1834)
Roscoff, W & N Norway, Plymouth, Öresund, S Finland
- P. similis* De Beauchamp,1908
Tvärminne
- P. decipiens* (Ehrenberg,1832)
= *Notommata decipiens* Ehrenberg,1832 (TM)
Tvärminne, in fresh-water rock-pools
- Notommatidae Remane,1933 (p.p.)
- Notommata* Ehrenberg,1830 (TM *Vorticella aurita* O.F. Müller,1786 - fresh & brackish water species)
- N. glyphura* Wulfert,1935
Tvärminne, in fresh-water rock-pools
- N. sp.?* d'Hondt,1970
Roscoff
- Cephalodella* Bory de St. Vincent,1826
- C. auriculata* (O.F. Müller,1773)
= *Vorticella auriculata* O.F. Müller,1773
Tvärminne
- C. delicata* Wulfert,1937
Tvärminne
- C. gracilis* (Ehrenberg,1832)
Tvärminne
- C. megaloccephala* (Glascott,1893)
Tvärminne
- C. pachyactyla* Wulfert,1937
Tvärminne, Bergen
- C. wrighti* Wulfert,1960
Tvärminne
- C. gibba* (Ehrenberg,1838)
Roscoff
- C. ventripes* (Dixon-Nuttall,1901)
Tvärminne
- C. gibba microdactyla* Koch-Althaus,1963
Tvärminne, Bergen
- C. catellina* (O.F. Müller,1786)
= *Cercaria catellina* O.F. Müller,1786 (TM)
Roscoff
- C. sp.* d'Hondt,1970
Roscoff
- Pleurotrocha* Ehrenberg,1830 (TM *P. petromycon* Ehrenberg,1830 - fresh & brackish water species)
- P. atlantica* Myers,1936
American Atlantic coast, Mediterranean
- Lindiidae Remane,1933
- Halolindia* Remane,1933
- H. gravita* (Lie-Pettersen,1905)
= *Lindia tecusa* Harring & Myers,1922 (TM)
Bergen, Roscoff
- Lindia* Dujardin,1841 (TM *L. torulosa* Dujardin,1841 - fresh water)
- L. sp.nov. ? (aff. pallida)* d'Hondt,1970
Roscoff
- Trichocercidae Remane,1933
- Trichocerca* de Lamarck,1801
- T. pediculus* Remane,1949
Amrum, Kieler Bucht, German Baltic & North Sea coasts
- T. taurocephala* (Hauer,1931)
Tvärminne, German Baltic & North Sea coasts
- T. marina* (Daday,1890)
Baltic, North Sea, Bergen, Roscoff,Plymouth
- T. rattus* (O.F. Müller,1776)
= *Trichoda rattus* O.F. Müller,1776 (TM)
Tvärminne
- T. arctica* (Voigt,1957)
= *Diurella minuta* Olofsson,1918, non *Coelopus minutus* Gosse
Tvärminne, Spitsbergen
- T. brachyura* (Gosse,1851)
Tvärminne
- T. longiseta* (Schrank,1802)
Tvärminne, in fresh-water rock-pools
- Gastropodidae Remane,1933
- Ascomorpha* Perty,1850 (TM *A. ecaudis* Perty,1850 - fresh water)
- A. saltans* Bartsch,1870
Europe
- Chromogaster* Lauterborn,1893
- C. ovalis* (Bergendal,1892)
= *C. testudo* Lauterborn,1893 (TM)
Europe
- Dicranophoridae Remane,1933
- Aspelta* Harring & Myers,1928 (TM *Diglena circinator* Gosse,1886 - fresh water)
- A. harringi* Remane,1929
German & Danish Baltic beaches, Scandinavian Atlantic coast, Roscoff
- A. reibischi* (Remane,1929)
German & Danish Baltic & North Sea beaches, W Norway
- A. clydona* Harring & Myers,1928
E Sweden, German Baltic, Bergen, South Finland
- A. clydona europaea* Hauer,1939
E Baltic
- Encentrum* Ehrenberg,1838
- E. algente* Harring,1921
Bergen, in rock-pool, Kieler Bucht
- E. bidentatum* (Lie-Pettersen,1906)
Bergen, in rock-pool, Kieler Bucht
- E. cruentum* Harring & Myers,1928
W Norway
- E. enteromorphae* Otto,1936
Kieler Bucht
- E. flexilis* Godske-Eriksen,1968
Bergen, in rock-pool
- E. ambiguum* Tschaschel,1979
Sylt, German North Sea coast
- E. axi* Tschaschel,1979
Sylt, German North Sea coast
- E. eulitorale* Tschaschel,1979
Sylt, German North Sea coast
- E. kostei* Tschaschel,1979
Sylt, German North Sea coast
- E. listense* Tschaschel,1979
Sylt, German North Sea coast

- E. longirostrum* Tschaschel, 1979
=? *Wigrella amphora* Remane, 1929
Sylt, German North Sea coast, Baltic?
- E. marinum* (Dujardin, 1841)
=? *E. simillimum* Remane, 1929
= *Furcularia marina* Dujardin, 1841 (TM)
Tvärminne, W & N Norway, Roscoff, Sylt
- E. mathesi* Remane, 1949
German & Danish Baltic Sea
- E. eristes* Haring & Myers, 1928
Kieler Bucht
- E. mustela* (Milne, 1885)
Cosmopolitan, in fresh & brackish waters
- E. obesum* Tschaschel, 1979
Sylt, German North Sea coast
- E. pachidum* (Gosse, 1887)
W & N Norway, Baltic, North Sea
- E. pachypus* Wulfert, 1936
German Baltic & North Sea coasts
- E. permutandum* Tschaschel, 1979
Sylt, German North Sea coast
- E. psammophilum* Althaus, 1957
Sylt, German North Sea coast
- E. remanei* Voigt, 1957
Helgoland, German Baltic & North Sea coasts
- E. rousseleti* (Lie-Petersen, 1905)
Bergen, Roscoff, Kiel, Scotland
- E. sacculiforme* Tschaschel, 1979
Sylt, German North Sea coast
- E. spatitium* Wulfert, 1936
Poland, Germany
- E. striatum* Althaus, 1957
Sylt, German North Sea coast
- E. subterraneum* (Remane, 1949)
Kieler Bucht, German Baltic coast
- E. tectipes* Remane, 1949
German Baltic & North Sea coasts
- E. villosum* Haring & Myers, 1928
Baltic rock-pools
- E. wierzejskii* Tschaschel, 1979
Sylt, Helgoland, Kieler Bucht, German Baltic & North Sea coasts
- E. myersi* (Wulfert, 1936)
Kieler Bucht
- Wigrella* Wiszniewski, 1932 (TM *W. depressa* Wiszniewski, 1932 - fresh water)
- W. amphora* (Remane, 1929)
=? *Encentrum longirostrum* Tschaschel, 1974
Kieler Bucht
- Wierzejskiella* Wiszniewski, 1934 (TM *Encentrum velox* Wiszniewski, 1932 - fresh water)
- W. marina* Remane, 1949
Helgoland, Kieler Bucht
- W. subterranea* Remane, 1949
Kieler Bucht
- Dicranophorus* Nitzsch, 1827
- D. forcipatus* (O.F. Müller, 1773)
= *Cercaria forcipata* O.F. Müller, 1773 (TM)
Cosmopolitan, in fresh & brackish water
- Albertia* Dujardin, 1838 (TM *A. vermiculus* Dujardin, 1838 - fresh water)
- A. crystallina* Schultze, 1851
Baltic, in the intestine of the oligochaete *Paranais littoralis*
- A. naidis* Bousfield, 1886
= *A. intrusor* Gosse, 1886
Cosmopolitan?, in the intestine of *Nais barbata*, *N. elinguis*, *N. variabilis*, *Sylaria lacustris* & *Ripistes parasita*.
- A. soyeri* Coineau & Kunst, 1964
France?, in the intestine of *Nais elinguis*
- Erignatha* Haring & Myers, 1928 (TM *Diglena clastopis* Gosse, 1886 - fresh water)
- E. thienemanni* Remane, 1929
Kieler Bucht, Roscoff
- Asplanchnidae Haring & Myers, 1926
- Asplanchna* Gosse, 1850
- A. priodonta* Gosse, 1850 (TM)
Europe, in fresh & brackish waters
- Synchaetidae Remane, 1933
- Synchaeta* Ehrenberg, 1834
- S. baltica* Ehrenberg, 1834
W Sweden, Tvärminne, Bergen, North Sea
- S. cecilia* Rousset, 1902
W Sweden, North Sea, Tvärminne, Bergen, Roscoff
- S. curvata* Lie-Petersen, 1905
Bergen, Baltic, North Sea
- S. gyrina* Hood, 1887
Tvärminne, Bergen, North Sea
- S. litoralis* Rousset, 1902
W Sweden, Bergen, Baltic, Scotland, Plymouth, Zuiderzee
- S. neapolitana* Rousset, 1902
W Sweden, Baltic, North sea, Bergen
- S. oblonga* Ehrenberg, 1831
Tvärminne
- S. tremula* (O.F. Müller, 1786)
Tvärminne, in fresh-water rock-pools
- S. triophthalma* Lauterborn, 1894
W Sweden, Baltic, Bergen, Roscoff, Plymouth, Zuiderzee
- S. vorax* Rousset, 1902
W & N Norway, Tvärminne, North Sea, Roscoff, Plymouth
- S. tavina* Hood, 1883
Baltic, North Sea, Roscoff
- S. pectinata* Ehrenberg, 1832 (TM)
Europe, in brackish water
- S. monopus* Plate, 1889
Baltic, North Sea
- S. grimpei* Remane, 1929
Baltic, England
- S. atlantica* Zelinka, 1907
North Sea, North Atlantic
- S. johanseni* Haring, 1921
Baltic
- S. fennica* Rousset, 1909
Baltic
- S. razelmi* Rudescu, 1960
=? *S. spec.* Remane, 1937
Black Sea, Kiel?
- S. bicornis* Smith, 1904
Zuiderzee
- Polyarthra* Ehrenberg, 1834 (TM *P. vulgaris* Carlin, 1943 - fresh water)
- P. remata* (Skorikov, 1896)
=? *P. platyptera* Ehrenberg, 1834?
Bohuslän?
- Ploesoma* Herrick, 1885 (TM *P. lenticulare* Herrick, 1885 - fresh water)
- P. truncatum* (Levander, 1894)
Bohuslän
- FLOSCULARIACEAE Remane, 1933
- Testudinellidae Bartos, 1959
- Testudinella* Bory de St. Vincent, 1826
- T. clypeata* (O.F. Müller, 1786)
= *Brachionus clypeatus* O.F. Müller, 1786 (TM)
Tvärminne, Bergen, Roscoff, Zuiderzee
- T. obscura* Althaus, 1957
Roscoff
- T. patina* (Hermann, 1783)
Tvärminne, in fresh-water rock-pools
- Pompholyx* Gosse, 1851 (TM *P. complanata* Gosse, 1851 - fresh water)
- P. sulcata* (Hudson, 1885)
England?, in fresh & brackish water
- Filinia* Bory de St. Vincent, 1824
- F. cornuta* (Weisse, 1847)
Cosmopolitan, in fresh & brackish waters
- F. brachiata* (Rousset, 1901)
Cosmopolitan, in fresh & brackish waters
- Hexarthridae Bartos, 1959
- Hexarthra* Schmarda, 1854
= *Pedalia* Barrois, 1878
- H. mira* (Hudson, 1871)
= *Pedalion mirum* Hudson, 1871 (TM)
?, in fresh & brackish waters
- H. fennica* (Levander, 1892)
Tvärminne, Zuiderzee, Cosmopolitan
- H. oxyuris* (Sernov, 1903)
E Baltic
- Floscularidae Haring, 1913
- Floscularia* Cuvier, 1798 (TM *Serpula ringens* Linnaeus, 1758 - fresh water)
- F. melicerta* (Ehrenberg, 1832)
Cosmopolitan, in fresh & brackish waters
- Conochilidae Remane, 1933
- Conochilus* Ehrenberg, 1834

C. hippocrepis (Schrank,1830)
Europe, in fresh & brackish waters

COLLOTHECAEAE Remane,1933

Collotheidae Bartos,1959

Collothea Harring,1913

C. ornata (Ehrenberg,1832)
Europe, in fresh & brackish waters

C. campanulata (Dobie,1849)
= *Floscularia campanulata* Dobie,1849 (TM)
Europe, in fresh & brackish waters

C. mutabilis (Hudson,1885)
Europe, in fresh & brackish waters

ECHIURA Sedgwick,1898 (10-11 European Atlantic spp.)

XENOPNEUSTIDA Fisher,1946
* Not represented in the area.

HETEROMYOTIDA Fisher,1946
* Not represented in the area.

BONELLIIDA

Bonelliidae Baird,1866

Bonellia Rolando,1821

B. viridis Rolando,1821 (TM)
Kattegatt - Bohuslän - Skagerrak - Trondheimsfjorden, S & W coasts, off Ireland, Mediterranean

Maxmuelleria Bock,1942 (TM *Thalassema gigas* Max Müller,1852 - Mediterranean)

M. lankesteri (Herdman,1898)
= *Thalassema lankesteri* Herdman,1898
* May possibly be conspecific with the Mediterranean *M. gigas* (M. Müller,1852)
Kattegatt - Bohuslän - Skagerrak (off Arendal), W Scotland, Irish Sea, NW Spain

M. faex (Selenka,1885)
= *Thalassema faex* Selenka,1885
Norwegian coast from Sogn - Trondheimsfjorden

Hamingia Danielssen & Koren,1881

H. arctica Danielssen & Koren,1881 (TM)
Norwegian coast from Stavanger and northwards

Amalosoma Fischer,1948 (TM *Acanthohamingia paradola* Fisher,1946 - Japan)

A. eddytonense Stephen,1956
Plymouth, Biscay

ECHIURIDA

Echiuridae de Blainville,1827

Echiurinae Monro,1927

Echiurus Guérin,1831
* Guérin did not put -Méneville to his last name until 1836.

E. echiurus (Pallas,1767)
= *Lumbricus echiurus* Pallas,1767 (TM)
Bohuslän - Öresund, all Norway, W North Sea

E. abyssalis Skorikow,1906
West coast of Ireland in deep water, Capri

Thalassematinae Monro,1927

Thalassema Lamarck,1801

T. thalasseum (Pallas,1766)
= *Lumbricus thalassema* Pallas,1766 (TM)
= *Thalassema neptuni* Gærtner, in Pallas,1774
Plymouth, S Wales, Ireland, France, Mediterranean

T. arcassonense Cuénot,1902
Bay of Arcachon

Anelassorhynchus Annandale,1922 (TM *Thalassema branchiorhynchus* Annandale & Kemp,1915 - India)

A. indivisus (Sluiter,1900)
Off W coast of Spain in 90 m. depth.

Species inquirenda (i.e.: it is questionable if this even is an Echiurid)

Sactosoma Danielssen & Koren,1881

S. vitreum Danielssen & Koren,1881 (TM)
Between Faeroes and Norway in 2222 m

SIPUNCULA Delle Chiaje,1823

* Ribosomal 18S DNA sequences indicate a close relationship with Annelida.

PHASCOLOSOMATIDEA

ASPIDOSIPHONIDA

= **ASPIDOSIPHONIFORMES** Cutler & Gibbs,1985

Aspidosiphonidae Baird,1868, emend. Stephen & Edmonds,1972

Aspidosiphon Diesing,1851

A. (Aspidosiphon) muelleri Diesing,1851 (TM)
= *A. clavatus* : Auctt. & possibly (de Blainville,1827)
= *Sipunculus (Phascolosoma) scutatus* J. Müller,1844

= *A. mirabilis* Théel,1875

= *A. jukesii* Baird,1873

= *A. armatum* Danielssen & Koren,1880

= *Phascolosoma radiata* Alder,1860

Bohuslän, Bergen - Trondheimsfjorden, Shetlands, Mediterranean, N & W Africa, Azores, Canaries

A. (Akrikos) Cutler & Cutler,1989 zinni Cutler,1969
Biscay in 600-3000m

PHASCOLOSOMATIDA

= **PHASCOLOSOMATIFORMES** Cutler & Gibbs,1985

Phascolosomatidae Stephen & Edmonds,1972

Phascolosoma Leuckart,1828
= *Phymosomum* de Quatrefages,1865
= *Phymosoma* Selenka & al.,1883
= *Physosoma* Selenka,1897

P. granulatum Leuckart,1828 (TM)

= *Physosoma granulatum* : Auctt.

Bergen area, Shetlands, Hebrides, Orkneys, W Ireland, Mediterranean, Azores, Cape Verde

SIPUNCULIDEA

SIPUNCULIDA

Sipunculidae Rafinesque,1814

Sipunculus Linnaeus,1766

= *Phallosoma* Levinsen,1883

S. nudus Linnaeus,1766 (TM)

Bergen area, S North Sea, Plymouth, Ireland, France

S. norvegicus norvegicus Danielssen,1868

= *Sipunculus priapuloides* Koren & Danielssen,1875

= *Phallosoma priapuloides* : Levinsen,1883.

Stavanger - Lofoten, N North Sea

Siphonosoma Spengel,1912 (TM *Phascolosoma australe* Keferstein,1865 - Australia)

S. arcassonense (Cuénot,1902)

Acachon Bay

GOLFINGIDA

Golfingiidae Stephen & Edmonds,1972

Golfingia Lankester,1885

G. elongata (Keferstein,1863)

= *Phascolosoma elongatum* Keferstein,1863

= *Phascolosoma charcoti* Hérubel,1906

= *Phascolosoma derjugini* Gadd,1911

Kattegatt - Bohuslän - Skagerrak - Sogn, Plymouth, Iberian Peninsula, Mediterranean

G. margaritacea margaritacea (M. Sars,1851)

= *Sipunculus margaritaceus* M. Sars,1851

= *Phascolosoma margaritacea finnarchica* Théel,1905

= *Phascolosoma margaritaceum forma sibirica* Théel,1905

= *Phascolosoma hanseni* Danielsen & Koren,1881

= *Phascolosoma nordenskjöldti* Théel,1911

= *Phascolosoma trybomi* Théel,1905

= *Golfingia cantabriensis* Edmonds,1960

= *Phascolosoma profundum* Roule,1898

Kattegatt - Bohuslän - Skagerrak - all Norway, W Scotland, SW Britain

G. vulgaris vulgaris (de Blainville,1827)

= *Sipunculus vulgaris* de Blainville,1827 (TM)

= *Phascolosoma vulgare* var. *astuta* (Selenka,1885)

= *Phascolosoma kolense* Gadd,1911

Kattegatt - Bohuslän - Skagerrak, all Norwegian coast, North Sea, Britain, Mediterranean

G. muricaudada (Southern,1913)

= *Phascolosoma muricaudatum* Southern,1913

Off SW Ireland in 475-1088m

G. iniqua (Sluiter,1912)

= *Phascolosoma iniquum* Sluiter,1912

= *Phascolosoma mutabile* Southern,1913

= *Phascolosoma rugosum* Southern,1913

SW Ireland in 914-1242m, NE Atlantic in 500-1800m

G. murinae Cutler,1969

Biscay in ca 1000-4800m

Nephasoma Pergament,1940

N. minuta (Keferstein,1863)

=? *Sipunculus johnstoni* Forbes,1841

= *Phascolosoma minutum* Keferstein,1863

= *Golfingia (Phascoloides) minuta* (Keferstein)

= *Phascolosoma sabellariae* Théel,1905

= *Phascolosoma anceps* Théel,1905

Kattegatt - Bohuslän - Skagerrak - all Norwegian coast, North Sea, Shetlands, Britain, Bretagne

N. rimicola (Gibbs,1973)

= *Golfingia (Phascoloides) rimicola* Gibbs,1973

Devon, Cornwall, N Spain

N. lilljeborgii (Danielssen & Koren,1881)

= *Phascolosoma lilljeborgii* Danielssen & Koren,1881

= *Golfingia (Phascoloides) lilljeborgii* (Danielssen & Koren,1881)

= *Onchinosoma glaciale* Danielssen & Koren,1880

= *Nephasoma marinkii* Pergament,1940 (TM - Arctic Seas)

Norwegian coast, Spitzbergen, Iceland in bathyal depths

N. eremita (M. Sars,1851)

= *Sipunculus eremita* M. Sars,1851

= *Golfingia (Phascoloides) eremita* (M. Sars,1851)

= *Sipunculus (Phascolosomum) boreale* Keferstein,1865

= *Phascolosoma digitatum* Théel,1875

Bergen - NE Finnmark, Arctic Seas

N. abyssorum (Koren & Danielssen,1875)

= *Phascolosoma abyssorum* Koren & Danielssen,1875

= *Golfingia (Phascoloides) abyssorum* (Koren & Danielssen, 1875)
= *Phascolosoma incompositum* Sluiter, 1912
W Norway (Bergensfj.), Helgoland

N. diaphanes diaphanes (Gerould, 1913)
= *Phascolosoma diaphanes* Gerould, 1913
= *Golfingia diaphanes* (Gerould, 1913)
= *Phascolosoma cinctum* Gerould, 1913
= *Phascolosoma improvisum* Théel, 1905
Bohuslän, Oslofjorden - Trondheimsfjorden, Biscay in deep water, Cosmopolitical cold water species, chiefly from bathyal & abyssal depths

N. diaphanes corrugatum Cutler & Cutler, 1986
= *Golfingia schutteii* : Murina, 1964, non (Augener, 1903)
Atlantic & Pacific Oceans, Mediterranean & Red Sea in 80-5900m

N. delagei (Hérubel, 1903)
= *Phascolosoma delagei* Hérubel, 1903
= *Golfingia (Phascoloides) delagei* (Hérubel, 1903)
* sensu Gibbs, 1973 & Cutler & Cutler, 1986 is this species indeterminate (incertae sedis)
Ushant, Biscay

N. bulbosum (Southern, 1913)
= *Phascolosoma bulbosum* Southern, 1913
= *Golfingia (Phascoloides) bulbosa* (Southern, 1913)
Off SW Ireland in 957-1088m, off NE USA in bathyal depths

N. constrictum (Southern, 1913)
= *Phascolosoma constrictum* Southern, 1913
= *Golfingia (Phascoloides) constricta* (Southern, 1913)
Off SW Ireland in 1143-1317m, NE Atlantic in 1900-4000m

N. wodjanizkii (Murina, 1973) *elisae* (Murina, 1977)
= *Golfingia (Phascoloides) elisae* Murina, 1977
Continental slope of NE Atlantic (43-58°) in 1600-2300m

N. constricticervix (Cutler, 1969)
= *Golfingia constricticervix* Cutler, 1969
Biscay in more than 2000m

N. flagriferum (Selenka, 1885)
= *Phascolosoma flagriferum* Selenka, 1885
= *Golfingia flagriferum* (Selenka, 1885)
Biscay in depths greater than 1500m, N Atlantic in abyssal depths

N. capilleforme (Murina, 1973)
= *Golfingia capilleformis* Murina, 1973
Atlantic & Pacific ocean in 920-4900m

Thysanocardia Fisher, 1950

T. procera (Möbius, 1875)
= *Phascolosoma procerum* Möbius, 1874 (TM)
= *Golfingia procera* : Auctt.
* May be a junior synonym of *T. catharinae* (Grube, 1868)
Kattegatt - Skagerrak - Trøndelag S of Trondheimsfjorden, N North Sea, W Scotland, W Ireland, Milford Haven

Apionsoma Sluiter, 1902 (TM *A. trichocephalus* Sluiter, 1902 - Malaya)

A. capitata (Gerould, 1913)
= *Physosoma capitatum* Gerould, 1913
= *Physosoma abyssorum* Southern, 1913
= *Phascolosoma abyssorum* (Southern, 1913)
SW Ireland in 1006-1096m, Biscay in 2800-4200m

Phascolionidae Cutler & Gibbs, 1985

Phascolion Théel, 1875

P. strombus strombus (Montagu, 1804)
= *Sipunculus strombi* Montagu, 1804 (TM)
= *Phascolosoma intermedium* Southern, 1913
Kattegatt - Bohuslän - all Norway, all around Britain, Mediterranean

P. tuberculosis Théel, 1875
= *P. pallidum* Koren & Danielssen, 1877
= *P. hironellei* Sluiter, 1900
= *P. magadorensis* Sluiter, 1912
Bohuslän, Skagerrak, Bergen, Trondheimsfjord

P. (Montuga) pacificum Murina, 1957
Off W European coast in depths greater than ca 1000m

P. (Montuga) lutense Selenka, 1885
= *P. (Montuga) canum* Cutler & Cutler, 1980
Biscay in depths of more than 2000m

Onchnesoma Koren & Danielssen, 1875

O. squamatum squamatum (Koren & Danielssen, 1875)
= *Phascolosoma squamatum* Koren & Danielssen, 1875
N Kattegatt, Skagerrak, North Sea, Oslofjord - Lofoten, Britain, Portugal, Mediterranean

O. steenstrupii steenstrupii Koren & Danielssen, 1875 (TM)
Kattegatt - Skagerrak - W Finnmark, North Sea, Britain, Portugal, Mediterranean, Ivory Coast

O. magnibatha Cutler, 1969
Off NW European coast in depths greater than 2000m

POGONOPHORA K.E. Johansson, 1937

* More and more evidence seems to indicate an Annelid relationship.

AFRENULATA M. Webb, 1969

* Not represented in the area.

FRENULATA M. Webb, 1969

ATHECANEPHRIDA Ivanov, 1955

Oligobrachiidae Ivanov, 1957

Oligobrachia Ivanov, 1957

O. webbi Brattegaard, 1966
NW Tromsø in 270m, Varangerfjord area

O. ivanovi Southward, 1959
SW Engl. Channel in 1343-1435m

O. gracilis Southward, 1978
N Biscay in 720-2215m

Siboglinidae Caullery, 1914

Nereilinum Ivanov, 1961

N. murmanicum Ivanov, 1961
N & NE Finnmark, Barents Sea in 170-325m, Norw. Sea in 1280m

Siboglinum Caullery, 1914

S. brevicephalum Flügel, 1990
Norw. Sea (1280 m)

S. ekmani Jägersten, 1956
Skagerrak and Norwegian fjords - N Finnmark in 396-1288m, SW Britain, Biscay

S. fiordicum Webb, 1963
Skagerrak and Norwegian fjords - N Finnmark in 300-600m

S. poseidoni Flügel & Langhof, 1983
Skagerrak (off Arendal - off Kristiansand) in 230-294m

S. norvegicum Ivanov, 1960
Off W Shetlands & off Norwegian coast in 120 & 1165m

S. holmei Southward, 1963
W Scotland, SW Ireland in 100-1300m

S. atlanticum Southward & Southward, 1958
NE Atlantic between SW Britain & N Spain in 956-1324m

S. inermis Southward & Southward, 1958
NE Atlantic off SW Britain in 522-1288m

S. lacteum E.C. Southward, 1963
NE Atlantic in 1105-1250m

S. leucopleurum Flügel & Callsen-Cencic, 1993
Biscay in 1138 m.

THECANEPHRIDA Ivanov, 1955

Polybrachiidae Ivanov, 1952

Diplobrachia Ivanov, 1960

D. capillaris (Southward, 1959)
NE Atlantic off SW Britain in 550-1700m

Sclerolinidae Webb, 1964

Sclerolinum Southward, 1961

S. brattstroemi Webb, 1964
W Norwegian fjords in 100-870m in rotting wood, ropes, etc.

HEMICHORDATA Bateson, 1885

ENTEROPNEUSTA Gegenbaur, 1870
= **HELMINTHOMORPHA**

Ptychoderidae Spengel, 1893

Glossobalanus Spengel, 1901

G. sarniensis (Köhler, 1886)
?Skagerrak off Arendal, S North Sea

G. marginatus Meek, 1922
Skagerrak off Arendal - Egersund, North Sea

G. minutus (Kowalevsky, 1866)
Portuguese coast, Mediterranean

Balanoglossus Delle Chiaje, 1829

B. clavigerus Delle Chiaje, 1829
England, Portugal

Spengelidae Willey, 19??
* Not represented in the area.

Harrimaniidae Spengel, 1901

Harrimania Ritter, 1900

H. kupfferi (von Willemoes-Suhm, 1871)
Öresund - Bohuslän - Skagerrak, Trondheimsfjorden

Saccoglossus Schimkewitsch, 1892
= *Dolichoglossus* Spengel, 1893
* Along NW Atlantic shores two species, *S. kowalevskii* Agassiz, 1873 & *S. bromophenolus* King, Giray & Kornfield, 1994 may be found.

S. pygmaeus Hinrichs & Jacobi, 1938
Helgoland

S. ruber Tattersall, 1905
= *S. serpentinus* Assheton, 1908
= *S. cambrensis* Brambell & Cole, 1939
Galway, Wales, Sound of Mull

S. horsti Brambell & Goodhart, 1941
= *S. kowalevskii* Auct. non Agassiz, 1873
Öresund?, Solent (Engl. Channel)

S. mereschkowskii Wagner, 1???
off N Russia

Stereobalanus Spengel, 1901

S. canadensis (Spengel,1893)
Northern Scotland, Vöring Plateau (deep water) in the Norwegian Sea

Protoglossidae Dawydoff,1966

* This family is often included in Harrimaniidae.

Protoglossus van der Horst,1935
= *Protobalanus* Caullery & Mesnil,1904, non Hall & Clarke,1888, nec Whitfield,1889 (Cirripedia)

P. koehleri (Caullery & Mesnil,1900)
Netherlands, Isle of Man

P. n. sp. Silén,1950
* Possibly identical with *P. koehleri* (Caullery & Mesnil)
Gullmarfjord area

PTEROBRANCHIA R. Lankester,1878

Cephalodiscidae

Cephalodiscus McIntosh,1882

C. levinseni Harmer,1905
?NE Atlantic?, off Japan & Corea

C. gracilis McIntosh,1882
Bermudas

Atubariidae

* The only species known was found by Sato from Japan.

Rhabdopleuridae

Rhabdopleura Allman,1869
= *Haliophus* M. Sars,1869 (nom. nud.)

R. normani Allman,1869
= *Rhabdopleura mirabilis* M. Sars, in G.O. Sars,1872
@ often on branches of dead *Lophelia*
Bohuslän - Lofoten. ?Spitzbergen, Shetlands, Faeroes, Iceland, Barents Sea, W Greenland, Biscay, Mediterranean, Azores

R. compacta Hincks,1880
@ often on concave side of dead bivalve shells in 23-100 m
Plymouth, NE Ireland, N Bretagne

PLANCTOSPHAEROIDEA Van der Horst,1936

Planctosphaera Spengel,1932

P. pelagica Spengel,1932
Biscay in 270 m, Bermudas

CHAETOGNATHA Leuckart,1854

SAGITTOIDEA Claus & Grobben,1905

PHRAGMOPHORA Tokioka,1965

Spadellidae Tokioka,1965

Spadella Langerhans,1880
* World-wide 10 species are known, of which the 3 species in this list described by Casanova and the antarctic *S. antarctica* Casanova,1991 always have posterior teeth. One species *S. japonica* Casanova, 1993 do not have posterior teeth. The other five species, including *S. moretonensis* Johnston & Taylor, 1919 (Australia), *S. angulata* Tokioka,1951 (Japan), *S. gaetanoi* Alvaríño,1978 (Hawaii) & *S. bradshawi* Bieri,1974 (California) may or may not have posterior teeth.

S. cephaloptera (Busch,1851)
Öresund - Bohuslän - Trøndelag

S. birostrata Casanova,1987
Gibraltar in 150-555m

S. equidentata Casanova,1987
Portugal in 452m

S. ledoyeri Casanova,1986
Marseille (in submarine cave)

Paraspadella Salvini-Plawen,1987
= *Gephyrospadella* Salvini-Plawen,1987
* Having adhesive organs in contrast to *Spadella* which is restricted to species lacking adhesive organs. Not known from Scandinavia? The species are: *P. schizoptera* (Conant,1895) (Bahamas & Florida), *P. anops* Bowman & Bieri,1989 (Bahamas), *P. caecafea* (Salvini-Plawen,1987), *P. gotoi* (Casanova,1990) (Japan), *P. hummelinckii* (Alvaríño,1970) (which possibly is a synonym of *P. pulchella* Owre) (Puerto Rico), *P. johnstoni* (Mawson,1944) (Australia), *P. legacichessi* (Alvaríño,1981) (Marshall Islands), *P. nana* (Owre,1963) (Florida), *P. pimukatharos* (Alvaríño,1987) (California), *P. pulchella* (Owre,1963) (Puerto Rico) & *P. sheardi* (Mawson,1944) (Australia).

Bathyspadella Tokioka,1939 (™ *Bathyspadella edenata* Tokioka,1939 - Japan)
* Only one specimen of one species known from this genus.

Eukrohniidae Tokioka,1965

Eukrohnia Ritter-Záhony,1909

E. hamata (Möbius,1875)
Bohuslän, Bergen, Iceland, Scotland, Biscay

E. bathypelagica Alvaríño,1962
* Aurich, 1970 is considering this species to be a breeding stage of *E. hamata* (Möbius)
Bohuslän, Bergen

E. fowleri Ritter-Záhony,1909
Norwegian Sea, off Ireland, Biscay

Heterokrohnia Ritter-Záhony,1911
= *Archeterokrohnia* Casanova,1986

H. palpifera (Casanova,1986)
= *Archeterokronia palpifera* Casanova,1986
W Mediterranean

APHRAGMOPHORA Tokioka,1965

CTENODONTINA Tokioka,1965

Pterosagittidae Tokioka,1965

Pterosagitta Costa,1869

P. draco (Krohn,1853)
Biscay

Sagittidae Claus & Grobben,1905

Sagitta Quoy & Gaimard,1827

S. bipunctata Quoy & Gaimard,1827
Atlantic west of Ireland, Biscay

Subgenus: *Parasagitta* Tokioka,1965
* Heterogeneous taxon.

S. (P.) elegans elegans Verrill,1873
Bohuslän - Baltic?, The Oslo Fjord, Britain

S. (P.) elegans baltica Ritter-Záhony,1911
Kattegatt - Baltic, Scotland

S. (P.) elegans arctica Aurivillius,1896
Norwegian Sea - off Ireland - Arctic

S. (P.) setosa J. Müller,1847
* Neritic.
Bohuslän - Baltic, Netherlands, Britain, Mediterranean

S. (P.) friderici Ritter-Záhony,1911
W Scotland - Biscay

Subgenus: *Flaccisagitta* Tokioka,1965

S. (F.) hexaptera d'Orbigny,1836
= *Sagitta exaptera* d'Orbigny,1836
Faeroes, Shetlands, Atlantic west of Ireland, Biscay

S. (F.) enflata Grassi,1881
W Scotland, Biscay

Subgenus: *Pseudosagitta* Germain & Joubin,1912

S. (P.) maxima (Conant,1896)
Skagerrak - N North Sea, Iceland, Norwegian Sea - Arctic

S. (P.) lyra lyra Krohn,1853
N North Sea, off Ireland, Biscay

S. (P.) lyra gazellae : Auct. non Ritter-Záhony,1909
N North Sea?, Biscay

Subgenus: *Serratosagitta* Tokioka & Pathansali,1963

S. (S.) serratodentata serratodentata Krohn,1853
W Britain, Ireland, Biscay, Mediterranean

S. (S.) tasmanica Thomson,1947
Skagerrak, N North Sea, Norwegian Sea - N Norway, W Britain - NW Africa

Subgenus: *Caecosagitta* Tokioka,1965

S. (C.) macrocephala Fowler,1905 (™ of *Caecosagitta* Tokioka,1965)
Norwegian Sea, off Scotland & Ireland, Biscay

Subgenus: *Mesosagitta* Tokioka,1965

S. (M.) decipiens Fowler,1905
Norwegian Sea, Scotland, Biscay

S. (M.) minima Grassi,1881
Biscay

S. (M.) batava Biersteker & van der Spoel,1966
* Neritic.
Netherlands

Subgenus: *Solidosagitta* Tokioka,1965

S. (S.) zetesios Fowler,1905
* Possibly a synonym of *S. planctonis* Steinhaus,1896
Norwegian Sea, Biscay

S. (S.) planctonis Steinhaus,1896
Atlantic west of Ireland, Biscay

FLABELLODONTINA Tokioka,1965

Krohniidae Tokioka,1965

Krohnia Ritter-Záhony,1910

K. subtilis (Grassi,1881)
Atlantic west of Ireland, Biscay

XENOTURBELLIDA

* This "phylum" will hopefully be reduced to a lower taxon within a near future, when DNA sequences from the only species have been compared to other sequences from other phyla. According to Jondelius (pers. comm), DNA sequence data speaks in favour of a relationship with the "pseudocoelomate" taxas.

Xenoturbellidae

Xenoturbella Westblad,1949

X. bocki Westblad,1949 (™)
Gullmarsfjord, Koster Channel, Bergen, Scotland
