

A stylized map of Belgium is shown in a light teal color. Overlaid on the map are various dark teal silhouettes of marine life, including a large whale in the center, a smaller whale to the left, and a fish-like creature at the bottom right. The background is a gradient of light blue and white.

BELGIAN REGISTER OF MARINE SPECIES

September 2010

Vlaams instituut voor de zee





BELGIAN REGISTER OF MARINE SPECIES, COMPILED AND VALIDATED BY THE VLIZ BELGIAN MARINE SPECIES CONSORTIUM

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Introduction

The sea has always had a certain attraction on people. Although Belgium is the smallest North Sea country with the shortest coastline (± 67 km) and a continental shelf of 3.457 km², many have been drawn to it to try to understand its diversity and complexity.

A first step towards understanding is to obtain an idea of the species diversity within an area, to establish an inventory of the local marine species. Since 2000, the Flanders Marine Institute (VLIZ) compiles distribution information on species from the Southern Bight of the North Sea into a single database: Taxonomic Information System for the Belgian coastal area - TISBE. TISBE tried to develop a comprehensive list of all species recorded for the Belgian coast, the Southern Bight of the North Sea and surrounding countries. The focal area for this database spanned from the rocky shores of the Boullonnais in North France to southern Holland, including the Delta area and the Scheldt estuary.

Despite the availability of a general list for the Southern Bight, there was a growing demand for a species list only containing species present in the Belgian part of the North Sea. Following this request, the Flanders Marine Institute started with the composition of such a list. This Belgian Register of Marine Species – BeRMS – is based on TISBE: all species occurrences within the Belgian part of the North Sea were filtered from Tisbe and a new literature search was started, to further complete the Belgian marine list. Additionally, a number of databases holding Belgian marine distribution data were searched for relevant species. These database included EurOBIS (European Ocean Biogeographic Information System, www.eurobis.org) and IMERS (Integrated Marine Environmental Readings & Samples, <http://www.vliz.be/vmdcdata/imers/>). Both TISBE and BeRMS are part of the World Register of Marine Species (WoRMS, www.marinespecies.org), which is managed and maintained by taxonomic experts, thereby guaranteeing the taxonomic correctness of the included species names.

The recent literature search showed however that not all distribution records were trustworthy, leading to the fact that – solely based on literature – there would probably be an overestimation of the number of species present in the Belgian part of the North Sea. This led to an additional quality check, where field experts were asked to help verify the geographical spread of all species listed as ‘present in the Belgian part of the North Sea’ based on literature and to list additions or specific comments such as ‘extinct in Belgian marine waters’, ‘non-indigenous’, ‘vagrant’, ... This exercise learned that not each group is being (or has been) studied in detail in the Belgian part of the North Sea, and for those groups we need to rely on published literature.

This document lists all known species for the Belgian part of the North Sea and the beach up till (but not including) the dune front (see map), after verification by field experts. If there was no field expert available, the species based on literature are listed with a clear notification of this. Experts have only validated the species they know themselves or are familiar with; additional species thus might occur in the Belgian part of the North Sea which are not listed here. If you would identify missing species or have additions, corrections or remarks on this list, please contact Leen Vandepitte (leen.vandepitte@vliz.be) or Wim Decock (wim.decock@vliz.be).



Although incomplete, this does represent the most complete list of marine species occurring in the Belgian part of the North Sea at the moment. As marine biologists are still intensively studying the Belgian part of the North Sea and new or yet undocumented species will 'surface', constant updates to this list will be possible in the future. An updated version of this list will be consultable at all times on www.marinespecies.org/berms.



Study area: the Belgian part of the North Sea.

Only species present in the Belgian part of the North Sea were included in the list.

The dune front was identified as the landward boundary and is not included.

Additional efforts will be undertaken to list all known species of the coastal zone, including the salt marshes, mud flats, dunes, and brackish areas (Scheldt estuary).

This species list will also be made available through the VLIZ-webpages (webpages currently in development). Basic information on all the species groups will be provided online, together with more details on their occurrence in the Belgian part of the North Sea.



Used terminology and definitions

Marine environment:

Aquatic environment with salinity levels ranging between > 35 PSU and 18 PSU.

Marine species:

All organisms living in the marine environment or dependent on this environment for their survival.

This includes all organisms living permanently submerged, organisms dependent on the marine environment as their food source or refuge / resting area and all terrestrial organisms depending on the marine environment for their survival (= intertidal area, tidemark, breakwaters). Organisms which only occur in the marine environment for part of their life-cycle (e.g. anadromous and katadromous fish) are also included.

Permanent species:

Marine organisms with established populations in the study area.

(Probably) extinct in Belgian marine waters:

Species which used to occur on a regular basis in the Belgian part of the North Sea, but for which recent observations are unknown. A species is classified as “(probably) extinct” if it hasn’t been observed in the last 30 years.

Non-indigenous species:

All organisms living outside their natural distributional range, which have arrived there by human activity, either accidental or deliberate. Only non-native organisms which have an established population in the Belgian part of the North Sea have received the label “non-indigenous” in the Belgian marine species list.

Synonyms: introduced species, non-native species

Exotic species without permanent population:

Species which are living outside their natural distributional range, which have arrived there by human activity, either accidental or deliberate.

Vagrant species:

Species which are signaled only a limited number of times in the area, without having an established population in this area.

For the Cirripedia, a distinction was made between vagrant and exotic species: where the vagrant species have reached the Belgian part of the North Sea on their own (larval transport by prevailing sea currents), the exotic species were introduced by man (e.g. larval transport in ship hulls and released in the study area). Both vagrant and exotic species have no established populations in the Belgian part of the North Sea.



Drift species:

Species found washed ashore (only applied for algae).

Taxonomic validation:

Person(s) who have checked the names for taxonomic correctness. Only valid species names are represented in this list

Geographic validation:

Person(s) who have confirmed the presence of the represented species in the Belgian marine environment.

Information based on available literature and data:

For these groups, there was no expert available for geographic validation and geographic validation is in these cases based on what is available in known literature and datasets.

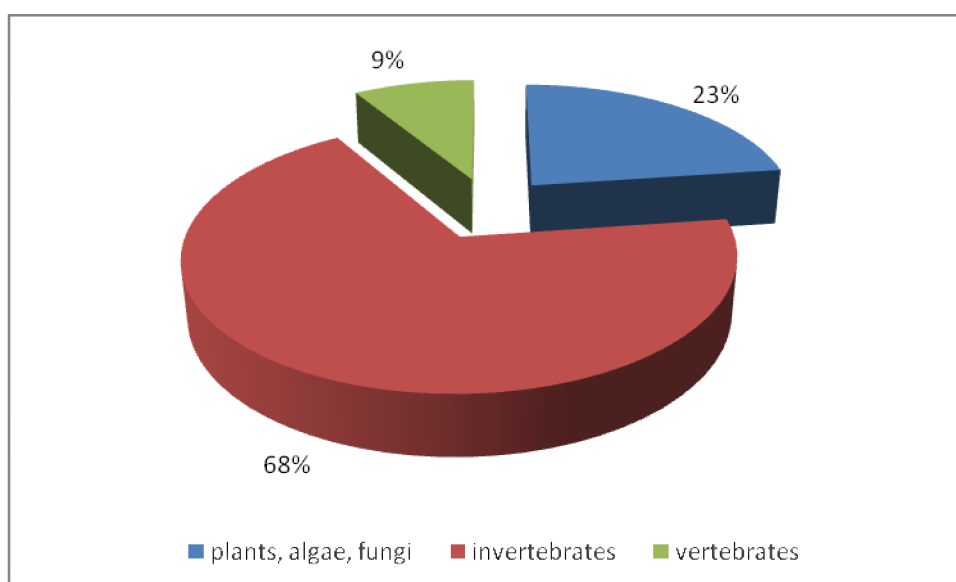


Belgian Register of Marine Species in numbers

Up till now (September 2010), 2187 species have been documented to appear in the Belgian part of the North Sea. The majority of these species are invertebrates with Nematoda being the most abundant invertebrate species group (472 species). Within the vertebrates, fish and birds are the most abundant (respectively 127 and 75 species).

Of those 2187 species, 118 are considered to be vagrant, exotic or drift species, meaning they are only signaled a limited number of times in our part of the North Sea without having an established population here. When experts made no distinction between permanent and vagrant species, all were considered to be permanent.

14 species have been known to occur in the Belgian part of the North Sea, but are now considered to be (probably) extinct as they haven't been observed over the last 30-100 years. These species belong to the Bryozoa (6), Pisces (6) and Cetacea (2).



Relative proportions of invertebrates, vertebrates and algae in the Belgian part of the North Sea



Group	General classification	Total # species	Vagrant/exotic/drift	(probably) extinct
Bacteria		?		
Protozoa		?		
Bacillariophyta		?		
Porifera	invertebrates	34		
Cnidaria	invertebrates	55	6	
Ctenophora	invertebrates	3		
Platyhelminthes	invertebrates	161		
Nemertea	invertebrates	10		
Gastrotricha	invertebrates	36		
Nematoda	invertebrates	473		
Rotifera	invertebrates	20		
Kinorhyncha	invertebrates	2		
Sipuncula	invertebrates	2		
Echiura	invertebrates	2		
Mollusca	invertebrates	129	1	
Oligochaeta	invertebrates	11		
Polychaeta	invertebrates	150		
Pycnogonida	invertebrates	16		
Branchiopoda	invertebrates	3		
Ostracoda	invertebrates	56		
Copepoda	invertebrates	194		
Cirripedia	invertebrates	27	12	
Nebaliacea	invertebrates	1		
Euphausiacea	invertebrates	1		
Decapoda	invertebrates	72		
Cumacea	invertebrates	13		
Amphipoda	invertebrates	71		
Isopoda	invertebrates	33		
Mysida	invertebrates	18		
Tanaidacea	invertebrates	3		
Myriapoda	invertebrates	1		
Insecta	invertebrates	27		
Chaetognatha	invertebrates	1		
Echinodermata	invertebrates	27		
Bryozoa	invertebrates	156	58	6
Tunicata	invertebrates	11		
Entoprocta	invertebrates	1		
Phoronida	invertebrates	1		
Brachiopoda	invertebrates	1		
Cephalochordata	invertebrates	1		
Agnatha	vertebrates	2		
Pisces	vertebrates	127	18	6

Reptilia	Vertebrates	2	2	
Aves	vertebrates	75		
Cetacea	vertebrates	20	12	2
Carnivora	vertebrates	7	5	
Rhodophyta	plants, algae, fungi	45		
Chlorophyta	plants, algae, fungi	46		
Phaeophyceae	plants, algae, fungi	25	4	
Fungi	plants, algae, fungi	3		
Magnoliophyta	plants, algae, fungi	12		
TOTAL		2187	118	14

Overview of the number of species present in the Belgian part of the North Sea. If experts made no distinction between permanently established species and vagrant/exotic/drift species, all species are considered as permanently established. This table should be seen as a dynamic representation of our current knowledge of the biodiversity in the Belgian part of the North Sea. Updates and corrections can be made at any time to VLIZ.



Belgian Register of Marine Species

BACTERIA

Contact: Prof. Dr. Anne Willems (University of Ghent, Laboratory of Microbiology, Belgium)

To know the number of Bacteria species present in the Belgian marine environment is an intriguing yet difficult question to answer. There are no recent reports documenting the diversity of marine Bacteria in the Belgian marine environment and all information available originates from older literature. Research in this area is just starting and will in the future provide insights into this diversity.

Over the last 5 to 10 years, a lot of changes have taken place in the field of bacterial research: improved identification techniques and new taxonomical insights have led to a better understanding of this group.

The most recent literature information the Belgian Register of Marine Species has available dates from early 2000 and goes back to 1907. Experts on the matter suspect this literature makes use of outdated taxonnames. Many bacterial taxa have in recent years been renamed or split up into several species and or genera, leading to an incorrect species list.

Keeping in mind these concerns, it was decided not to present a list of Bacteria currently documented for Belgium. In the future, we will however be able to fill this gap in our knowledge, as the Laboratory of Microbiology and the Department of Biology (UGent) have started to investigate the bacterial diversity in the Belgian marine environment.

PROTOZOA

Contact: Alan Warren (Natural History Museum, Department of Zoology, UK)

The question of protist species distribution is currently hotly debated with two conflicting theories. One maintains that all free-living protists are cosmopolitan, i.e. that “everything is everywhere” and that the environment selects which will grow to form active populations. The other maintains that many species (at least 30%) are biogeographically restricted, and that evidence for this increases if one takes into account molecular diversity and the likelihood that many morphospecies are in fact complexes of sibling species.

Keeping in mind these concerns, it was decided not to present a list of Protozoa currently documented for Belgium.



BACILLARIOPHYTA - DIATOMS

Contact: Prof. Dr. Koen Sabbe (University of Ghent, Section Protistology and aquatic ecology - PAE, Belgium)

As in other groups of unicellular organisms, the last decades have seen tremendous changes in our knowledge about the biodiversity, taxonomy and biogeography of diatoms. First, detailed studies of the morphological variation during the life cycles of diatoms have shown that in the past many species have been lumped together. This has not only led to confused species identities but also to a serious underestimation of marine diatom biodiversity in general, and in the notion that most species are cosmopolitan. Second, the realization that our estimates of diversity were wrong has been confirmed by the increased use of molecular techniques. These have uncovered that many - if not most - traditionally known species (delineated on the basis of morphological features) actually consist of numerous so-called cryptic species (this means that they are difficult or impossible to distinguish using microscopy alone). Finally, the use of molecular-genetic inventarization methods (such as clone libraries and more recently large-scale sequencing projects) have shown that our current estimates of the biodiversity of marine diatom communities are too low, because especially the rare fraction of these communities is much more diverse than previously thought. In traditional microscopy-based analyses, these rare species are usually overlooked.

At present, it is not possible to evaluate the identity of many species reported in the literature, because most published data cannot be critically evaluated due to the lack of good, detailed descriptions and/or illustrations, and because molecular data are sometimes necessary to confirm the presence of a species. It is therefore advisable to create new species lists based on recent, intercalibrated diatom records from the coast. Based on future efforts, compiling a species list specific for the Belgian marine water will become possible.

PORIFERA - SPONGES

Taxonomic validation:

- Dr. Rob van Soest (University of Amsterdam, The Netherlands)

Geographic validation:

- Dr. Rob van Soest (University of Amsterdam, The Netherlands)

Number of species: 34, of which 1 is non-indigenous (*)

Amphilectus fucorum (Esper, 1794)
Ciocalypta penicillus Bowerbank, 1862
Clathria (Microciona) armata (Bowerbank, 1862)
Clathrina coriacea (Montagu, 1818)
Cliona celata Grant, 1826
Cliona lobata Hancock, 1849
Dysidea fragilis (Montagu, 1818)
Grantia compressa (Fabricius, 1780)
Halichondria (Halichondria) bowerbanki Burton, 1930
Halichondria (Halichondria) panicea (Pallas, 1766)



Haliclona (Haliclona) oculata (Pallas, 1766)
Haliclona (Reniera) cinerea (Grant, 1826)
Haliclona (Rhizoniera) rosea (Bowerbank, 1866)
Haliclona (Rhizoniera) viscosa (Topsent, 1888)
Haliclona (Soestella) xena De Weerd, 1986 (*)
Halisarca dujardini Johnston, 1842
Hymedesmia (Stylopus) coriacea (Fristedt, 1885)
Hymeniacion perlevis (Montagu, 1818)
Leucosolenia complicata (Montagu, 1818)
Leucosolenia variabilis (Haeckel, 1870)
Mycale (Carmia) macilenta (Bowerbank, 1866)
Myxilla (Myxilla) rosacea (Lieberkühn, 1859)
Phorbas plumosus (Montagu, 1818)
Pione vastifica (Hancock, 1849)
Polymastia penicillus (Montagu, 1818)
Raspailia (Raspailia) ramosa (Montagu, 1818)
Raspailia (Raspailia) virgultosa (Bowerbank, 1866)
Suberites ficus (Johnston, 1842)
Sycon ciliatum (Fabricius, 1780)
Terpios gelatinosa (Bowerbank, 1866)
Tethya citrina Sarà & Melone, 1965
Tethyspira spinosa (Bowerbank, 1874)
Timea hallezi (Topsent, 1894)
Ulosa stuposa (Esper, 1794)

CNIDARIA - CNIDARIANS

Taxonomic validation:

- Peter Schuchert (Natural History Museum of the city of Geneva, Switzerland)
- Paul Cornelius (Natural History Museum, UK)
- Dr. Daphne G. Fautin (University of Kansas, KU Natural History Museum, USA)

Geographic validation:

- Hans de Blauwe (Strandwerkgroep – SWG, Belgium)
- Drs. Karl Vanginderdeuren (Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit -ILVO, Belgium)
- Emmanuel Dumoulin (Strandwerkgroep – SWG, Belgium)

Hydrozoa - hydroids

Number of species: 30

Permanent: 24, of which 1 is non-indigenous (*)

Abietinaria abietina (Linnaeus, 1758)
Aequorea forskalea (Forsskal, 1775)
Aequorea vitrina Gosse, 1853
Bougainvillia brittanica (Forbes, 1841)



Bougainvillia muscus (Allman, 1863)
Calycella syringa (Linnaeus, 1758)
Clytia hemisphaerica (Linnaeus, 1767)
Ectopleura dumortierii (Van Beneden, 1844)
Ectopleura larynx (Ellis & Solander, 1786)
Eucoilota maculata Hartlaub, 1894
Eutonina indicans (Romanes, 1876)
Gonothyraea loveni (Allman, 1859)
Margelopsis haeckeli Hartlaub, 1897
Mitrocomella polydiademata (Romanes, 1876)
Nemertesia antennina (Linnaeus, 1758)
Nemopsis bachei L. Agassiz, 1849 (*)
Obelia bidentata Clark, 1875
Obelia dichotoma (Linnaeus, 1758)
Obelia longissima (Pallas, 1766)
Rathkea octopunctata (M. Sars, 1835)
Sarsia tubulosa (M. Sars, 1835)
Sertularia cupressina Linnaeus, 1758
Tubularia indivisa Linnaeus, 1758
Zanclaea implexa (Alder, 1857)

Vagrant: 6

Aglaophenia pluma (Linnaeus, 1767)
Coryne muscoides (Linnaeus, 1761)
Melicerium octocostatum (Sars, 1835)
Obelia geniculata (Linnaeus, 1758)
Sertularella rugosa (Linnaeus, 1758)
Velella velella (Linnaeus, 1758)

Scyphozoa - true jellyfish

Number of species: 6

Aurelia aurita (Linnaeus, 1758)
Chrysaora hysoscella (Linnaeus, 1767)
Cyanea capillata (Linnaeus, 1758)
Cyanea lamarckii Péron & Lesueur 1810
Pelagia noctiluca (Forsskål, 1775)
Rhizostoma pulmo (Macri, 1778)

Anthozoa - sea anemones

Number of species: 19, of which 1 is non-indigenous (*)

Actinia candida Müller, 1776
Actinia equina (Linnaeus, 1758)
Actinotheroe sphyrodeta (Gosse, 1858)
Alcyonium digitatum Linnaeus, 1758
Balanophyllia regia Gosse, 1860



Calliactis parasitica (Couch, 1838)
Cereus pedunculatus (Pennant, 1777)
Cerianthus lloydii Gosse, 1859
Diadumene cincta Stephenson, 1925
Diadumene lineata (Verrill, 1869) (*)
Edwardsia timida Quatrefages, 1842
Hormathia digitata (O.F. Müller, 1776)
Metridium senile (Linnaeus, 1761)
Sagartia elegans (Dalyell, 1848)
Sagartia troglodytes (Price in Johnston, 1847)
Sagartiogeton laceratus (Dalyell, 1848)
Sagartiogeton undatus (Müller, 1778)
Stomphia coccinea (Müller, 1776)
Urticina felina (Linnaeus, 1761)

CTENOPHORA - SEA GOOSBERRIES

Taxonomic validation:

- Dr. Jacob van der Land (National Museum of Natural History – Naturalis, The Netherlands)

Geographic validation:

- Drs. Karl Vanginderdeuren (Flemisch Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit - ILVO, Belgium)

Number of species: 3, of which 1 is non-indigenous

Beroe gracilis Künne, 1939
Mnemiopsis leidyi A. Agassiz, 1865 (*)
Pleurobrachia pileus (Müller, 1776)

PLATYHELMINTHES - FLATWORMS

Taxonomic validation:

- Prof. Dr. Tom Artois (University of Hasselt, Research Group Zoology – SBG, Belgium)
- Dr. Anno Faubel (Universität Hamburg, Institut für Hydrobiologie und Fischereiwissenschaft, Germany)
- Dr. David Gibson (Natural History Museum, Department of Zoology – UK)
- Drs. Mieke Boone (University of Ghent, Section Nematology – Belgium)

Geographic validation:

- Prof. Dr. Tom Artois (University of Hasselt, Research Group Zoology – SBG, Belgium) (Turbellaria)
- Drs. Mieke Boone (University of Ghent, Section Nematology – Belgium) (Nemertodermatida)
- Species list based on available literature and data for the Belgian part of the North Sea (Trematoda, Monogenea, Digenea, Cestoda)



Number of species: 161

Adenorhynchus balticus Meixner, 1938
Allostoma pallidum Beneden, 1861
Amphirhynchus caudatus Schilke, 1970
Aphaloides coelomicola Dollfus, Chabaud & Golvan, 1957
Archiloea petiti Ax, 1956
Archiloea westbladi Ax, 1954
Archilopsis arenaria Martens, Curini-Galletti & Pucinelli, 1989
Archilopsis marifuga Martens, Curini-Galletti & Pucinelli, 1989
Archilopsis spinosa (Jensen, 1878)
Archimonocelis oostendensis Martens & Schockaert, 1981
Archimonotresis limophila Meixner, 1938
Asymphyllodora demeli Markowski, 1935
Aulopharynx aestuarius Ehlers, 1972
Bothriocephalus scorpii (Müller, 1776)
Bradynectes sterreri Rieger, 1971
*Bresslauilla relict*a Reisinger, 1929
Brinkmanniella macrostomoides Luther, 1948
Carcharodorhynchus flavidus Brunet, 1967
Carcharodorhynchus isolatus Schilke, 1970
Carcharodorhynchus listensis Schilke, 1970
Carenscoilia bidentata Sopott, 1972
Carenscoilia biforamen Sopott, 1972
Cheliplana boadeni Schilke, 1970
Cheliplana gemmifera Noldt, 1989
*Cheliplana marcus*i (Karling, 1956)
Cheliplana microcirrus Noldt, 1989
Cheliplana remanei (Meixner, 1928) Karling 1983
Cheliplana rubescens Brunet, 1966
Cheliplana stylifera Karling, 1949
Cheliplana vestibularis de Beauchamp, 1927
Cheliplanilla caudata Meixner, 1938
Cicerina brevicirrus Meixner, 1928
Cicerina remanei Meixner, 1928
Cicerina tetradactyla Giard, 1904
Ciliopharyngiella constricta Martens & Schockaert, 1981
Cirrifera aculeata (Ax, 1951)
Cirrifera dumosa Sopott, 1972
Cirrifera genitoductus Jouk, Martens, Schockaert, 2007
Cirrifera sopottehlersae Noldt & Jouk, 1988
Coelogynopora axi Sopott, 1972
Coelogynopora forcipis Sopott-Ehlers, 1976
Coelogynopora gynocotyla Steinböck, 1924
Coelogynopora solifer Sopott, 1972
Coronhelmis multispinous Luther, 1948
Cryptocotyle lingua (Creplin, 1825)
Cylindrostoma fingalianum (Clapere de, 1861)



Derogenes varicus (Müller, 1784)
Diascorhynchus rubrus Boaden, 1963
Diascorhynchus serpens Karling, 1949
Diclidophora minuti Tirard, Berrebi, Raibaut & Frenaud, 1992
Diclidophora luscae (van Beneden & Hesse, 1864)
Doliopharynx geminocirro Ehlers, 1972
Duplominona septentrionalis Martens, 1983
Duploperaclistus circocirrus Martens, 1983
Elvertia krusei Noldt, 1989
Flagellophora apelti Faubel & Dorjes, 1978
Gnathorhynchus conocaudatus Meixner, 1929
Gyrodactylus arcuatus Bychowsky, 1933
Gyrodactylus ostendicus Huyse & Malmberg, 2004
Gyrodactylus micropsi Glaser, 1974
Gyrodactylus longidactylus Geets, Malmberg & Ollevier 1998
Haloplanella longatuba Ax & Heller, 1970
Hangethelia calceifera Karling, 1940
Haplopharynx rostratus Meixner, 1938
Hemiurus ocreata (Rudolphi, 1802)
Karkinorhynchides purpureus (Schilke, 1970)
Karkinorhynchus bruneti Schilke, 1970
Kataplana germanica Ax, 1951
Leptoplana levigata (Quatrefage, 1845) Prudhoe, 1985
Limirhynchus danicus Schilke, 1970
Listea simplex Ax & Heller, 1970
Litucivis serpens Ax & Heller, 1970
Lonchoplanella axi Ehlers, 1974
Macrostomum balticum Luther, 1947
Macrostomum hystricinum Beklemischev, 1951
Macrostomum pusillum Ax, 1951
Minona degadti Martens, 1983
Monocelis fusca Örsted, 1843
Monocelis lineata (Müller, 1774) Ehrenberg, 1831
Monocelopsis otoplanoides Ax, 1951
Myozona stylifera Ax, 1956
Nematoplana coelogynoporoides Meixner, 1938
Nematoplana riegeri Curini-Galletti & Martens, 1992
Nematorhynchus parvoacumine Schilke, 1969
Nemertinoides elongatus Riser, 1987
Neopolycystis tridentata Karling, 1955
Neoschizorhynchus brevipharyngeus Schilke, 1970
Neoschizorhynchus longipharyngeus Schilke, 1970
Neoschizorhynchus parvorostro Ax & Heller, 1970
Nigerrhynchus opisthoporus Schilke, 1970
Odontorhynchus aculeatus Karling, 1956
Otoplanella baltica (Meixner, 1938)
Otoplanella schulzi (Ax, 1951)
Otoplanidia endocystis Meixner, 1938
Paracicerina deltoides Martens & Schockaert, 1981



Paragnathorhynchus subterraneus Meixner, 1938
Paraschizorhynchoides glandulis Schilke, 1970
Paromalostomum dubium (de Beauchamp, 1927)
Paromalostomum fuscum Ax, 1952
Parotoplanea capitata Meixner, 1938
Parotoplanea papii Ax, 1956
Petaliella spiracauda Ehlers, 1974
Phonorhynchus helgolandicus (Metschnikow, 1865)
Placorhynchus octaculeatus Karling, 1931
Plagiosomum vittatum (Frey & Leuckart, 1847)
Pogania kinnei Ax, 1970
Pogania natans Ax, 1951
Praebursoplana reisingeri Ax, 1956
Procerodes littoralis (Ström, 1768)
Proceropharynx littoralis Ehlers, 1972
Promesostoma caligulatum Ax, 1952
Promesostoma cochleare Karling, 1935
Promesostoma marmoratum (Schultze M, 1851)
Promesostoma serpentistylum Ax, 1952
Promonotus marci Ax, 1954
Promonotus schultzei Meixner, 1943
Proschizorhynchella bivaginata Schilke, 1970
Proschizorhynchella helgolandica (Karling & L'Hardy, 1965) Schilke, 1970
Proschizorhynchus gullmarensis Karling, 1950
Proschizorhynchus triductibus Schilke, 1970
Provortex affinis (Jensen, 1878)
Provortex balticus (Schultze M, 1851)
Provortex karlingi Ax, 1951
Provortex psammophilus Meixner, 1938
Provortex tubiferus Luther, 1948
Proxenetes ampullatus Ax, 1971
Proxenetes cisorius Hartog, 1966
Proxenetes fasciger Ehlers, 1974
Proxenetes pratensis Ax, 1960
Proxenetes puccinellicola Ax, 1960
Proxenetes simplex Luther, 1948
Proxenetes tenuispinosus Ehlers, 1974
Psammorhynchus tubulipenis Meixner, 1938
Pseudomonocelis agilis (Schultze M, 1851)
Pseudoschizorhynchoides ruber Schilke, 1970
Pseudostomum gracilis Westblad, 1955
Pseudostomum quadrioculatum (Leuckart, 1847)
Pseudosyrts subterranea (Ax, 1951)
Psittacorhynchus verweyi Hartog, 1968
Ptyalorhynchus coecus Ax, 1951
Ptychopera westbladi (Luther, 1943)
Rogneda hibernica (Southern, 1936)
Scanorhynchus forcipatus Karling, 1955
Schizochilus caecus L'Hardy, 1963



Schizochilus choriurus Boaden, 1963
Schizochilus marcusii Boaden, 1963
Schizorhynchoides aculeatus L'Hardy, 1963
Schizorhynchoides symmetricus Martens & Schockaert, 1981
Sterreria psammicola (Sterrer, 1970)
Subulagera rubra Martens & Schockaert, 1981
Thylacorhynchus ambronensis Schilke, 1970
Thylacorhynchus caudatus Meixner, 1928
Thylacorhynchus conglobatus Meixner, 1928
Thylacorhynchus pyriferus Karling, 1949
Toia calceiformis Brunet, 1973
Trigonostomum armatum (Jensen, 1878)
Uncinorhynchus flavidus Karling, 1947
Uteriporus vulgaris Bergendal, 1890
Vejdovskya halileimonia Ax, 1960
Vejdovskya pellucida (Schultze M, 1851)
Zoogonoides viviparus (Olsson, 1868)

NEMERTEA - RIBBON WORMS

Taxonomic validation:

- Prof. Dr. Raymond Gibson (Liverpool John Moore University, Biodiversity and Evolution, UK)

Geographic validation:

Species list based on available literature and data for the Belgian part of the North Sea

Number of species: 10

Baseodiscus delineatus (Delle Chiaje, 1825)
Cerebratulus marginatus Renier, 1804
Lineus bilineatus (Renier, 1804)
Lineus gesserensis
Lineus ruber (Müller, 1774)
Oerstedia dorsalis (Abildgaard, 1806)
Oxypholis beaumontiana Punnett, 1901
Poliopsis lacazei Joubin, 1890
Tubulanus annulatus (Montagu, 1804)
Tubulanus polymorphus Renier, 1804

GASTROTRICHA - GASTROTRICHS, HAIRY-BACKS

Taxonomic validation:

- Dr. Jean-Loup d'Hondt (Muséum National d'Histoire Naturelle – MNHN, France)
- William Hummon (Ohio University, Department of Biological Sciences, USA)
- Dr. Antonio Todaro (University of Modena e Reggio Emilia – UNIMORE, Italy)



Geographic validation:

Species list based on available literature and data for the Belgian part of the North Sea

Number of species: 36

Acanthodasys aculeatus Remane, 1927
Cephalodasys maximus Remane, 1926
Cephalodasys turbanelloides (Boaden, 1960)
Chaetonotus (Schizochaetonotus) neptuni Wilke, 1954
Chaetonotus parthenopeius Wilke, 1954
Chaetonotus variosquamatus Mock, 1979
Dactylopodola typhle (Remane, 1927)
Diplodasys ankei Wilke, 1954
Diplodasys minor Remane, 1936 sensu Todaro 1992
Dolichodasys elongatus Gagne, 1977
Halichaetonotus aculifer (Gerlach, 1953)
Halichaetonotus arenarius (d'Hondt, 1971)
Halichaetonotus batillifer (Luporini & Tongiorgi, 1972)
Halichaetonotus jucundus (d'Hondt, 1971)
Heterolepidoderma arenosum Kisielewski, 1988
Heterolepidoderma clipeatum Schrom, 1972
Heteroxenotrichula affinis (Remane, 1934)
Heteroxenotrichula squamosa Wilke, 1954
Lepidodasys martini Remane, 1926
Macrodasys caudatus Remane, 1927
Mesodasys laticaudatus Remane, 1951
Mesodasys litoralis Remane, 1951
Neodasys chaetonotoideus Remane, 1927
Paraturbanella dohrni Remane, 1927
Paraturbanella teissieri Swedmark, 1954
Pleurodasys helgolandicus Remane, 1927 sensu Boaden, 1963
Pseudostomella roscovita Swedmark, 1956
Tetranchyroderma megastomum (Remane, 1927)
Tetranchyroderma tribolosum Clausen, 1965
Turbanella ambronensis Remane, 1943
Turbanella bocqueti Kaplan, 1958 sensu Boaden, 1974
Turbanella cornuta Remane, 1925
Turbanella hyalina Schultze, 1853
Urodasys mirabilis Remane, 1926
Xenotrichula intermedia Remane, 1934
Xenotrichula velox Remane, 1927

NEMATODA - ROUNDWORMS

Taxonomic validation:

- Dr. Jan Vanaverbeke (University of Ghent, Marine Biology Section – MarBIOL, Belgium)
- Dr. David Gibson (Natural History Museum, UK)



- Dr. Tim deprez (University of Ghent, Marine Biology Section – MarBIOL, Belgium)
- Prof. Dr. Magda Vincx (University of Ghent, Marine Biology Section – MarBIOL, Belgium)

Geographic validation:

- Dr. Jan Vanaverbeke (University of Ghent, Marine Biology Section – MarBIOL, Belgium) (free-living nematodes)
- Species list based on available literature and data for the Belgian part of the North Sea (parasitic nematodes)

Number of species: 473, of which 1 is non-indigenous (*)

Acantholaimus ewensis Platt & Zhang, 1982
Actinonema celtica Boucher, 1976
Actinonema pachydermatum Cobb, 1920
Adoncholaimus fuscus (Bastian, 1865)
Adoncholaimus thalassophygas (de Man, 1876)
Aegialolaimus elegans de Man, 1907
Aegialolaimus sabulicola Allgén, 1933
Aegialolaimus tenuicaudatus Allgén, 1932
Alaimella cincta Cobb, 1920
Amphimonhystera anechma (Southern, 1914)
Anguillicoloides crassus (Kuwahara, Niimi & Itagaki, 1974) (*)
Anisakis simplex (Rudolphi, 1809)
Anomonema deconincki Jensen, 1976
Anoplostoma blanchardi de Man, 1888
Anoplostoma viviparum (Bastian, 1865)
Anticoma acuminata (Eberth, 1863) Stekhoven, 1950
Anticoma pellucida Bastian, 1865
Aponema torosa (Lorenzen, 1973)
Araeolaimus filipjevi Schuurmans Stekhoven & Adam, 1931
Araeolaimus longicauda Allgén, 1929
Ascolaimus elongatus (Bütschli, 1874)
Atrochromadora microlaima (de Man, 1889)
Atrochromadora parva (De Man, 1893) Wieser, 1954
Axonolaimus anellifera (Wieser, 1956)
Axonolaimus helgolandicus Lorenzen, 1972
Axonolaimus orcombensis Warwick, 1970
Axonolaimus paraspinosus Schuurmans Stekhoven & Adam, 1931
Axonolaimus spinosus (Bütschli, 1874)
Bathylaimus australis Cobb, 1894
Bathylaimus capacosus Hopper, 1962
Bathylaimus filicaudatus (Schuurmans Stekhoven & Adam, 1931)
Bathylaimus macramphis (Schuurmans Stekhoven & De Coninck, 1933)
Bathylaimus parafilicaudatus Allgén, 1935
Bathylaimus paralongisetosus Schuurmans Stekhoven & De Coninck, 1933
Bathylaimus stenolaimus Schuurmans Stekhoven & De Coninck, 1933
Bathylaimus tenuicaudatus (Allgén, 1933)
Bolbolaimus dentatus (Allgén, 1935)
Bolbolaimus denticulatus Gerlach, 1963
Bolbolaimus riemanni (Riemann, 1966)



Bolbolaimus teutonicus (Riemann, 1966)
Calomicrolaimus acanthus (Jayasree & Warwick, 1977)
Calomicrolaimus compridus (Gerlach, 1956)
Calomicrolaimus honestus (de Man, 1922)
Calomicrolaimus monstrosus (Gerlach, 1953)
Calomicrolaimus parahonestus (Gerlach, 1950)
Calomicrolaimus rugatus Lorenzen, 1976
Calyptonema maxweberi (de Man, 1922)
Camacolaimus barbatus Warwick, 1970
Camacolaimus exilis Cobb, 1920
Camacolaimus longicauda de Man, 1922
Camacolaimus tardus de Man, 1889
Capillaria wickinsi Ogden, 1965
Ceramonema carinatum Wieser, 1959
Ceramonema yunfengi Platt & Zhang, 1982
Chaetonema riemanni Platt, 1973
Chitwoodia tripapillata Jayasree, 1976
Chitwoodia warwicki Jayasree, 1976
Choniolaimus panicus Gerlach, 1956
Choniolaimus papillatus Ditlevsen, 1918
Chromadora axi Gerlach, 1951
Chromadora kreisi Schuurmans Stekhoven & Adam, 1931
Chromadora macrolaima de Man, 1889
Chromadora nudicapitata (Bastian, 1865)
Chromadorella problematica Boucher, 1976
Chromadorella salicaniensis Boucher, 1976
Chromadorina demani Inglis, 1962
Chromadorina germanica (Bütschli, 1874)
Chromadorina longisetosa (De Coninck & Schuurmans Stekhoven, 1933)
Chromadorita heterophya (Steiner, 1916)
Chromadorita lunatica Gerlach, 1965
Chromadorita nana Lorenzen, 1973
Chromadorita tenuis (Schneider, 1906)
Chromaspirina chabaudi Boucher, 1975
Chromaspirina inflexa Wieser, 1954
Chromaspirina inglisi Warwick, 1970
Chromaspirina lunatica Gerlach, 1965
Chromaspirina parapontica Luc & De Coninck, 1959
Chromaspirina pellita Gerlach, 1954
Chromaspirina renaudae Boucher, 1975
Cobbia trefusiaeformis de Man, 1907
Comesa cuanensis (Platt, 1982)
Comesa warwicki (Platt, 1982)
Coninckia circularis Gerlach, 1956
Coninckia macrospirifera Zhang, 1983
Crenopharynx marioni (Southern, 1914)
Cucullanus heterochrous Rudolphi, 1802
Cyartonema elegans Jayasree & Warwick, 1977
Cyartonema zosterae (Allgén, 1929)



Cylicolaimus magnus (Villot, 1875)
Dagda bipapillata Southern, 1914
Daptonema acrilabiatum (De Coninck & Schuurmans Stekhoven, 1933)
Daptonema biggi (Gerlach, 1965)
Daptonema calceolatum (De Coninck & Schuurmans Stekhoven, 1933)
Daptonema conicum (Filipjev, 1922)
Daptonema fallax (Lorenzen, 1972)
Daptonema fistulatum (Wieser & Hopper, 1967)
Daptonema flagellicauda (Lorenzen, 1973)
Daptonema groenlandicum (Ditlevsen, 1928)
Daptonema hirsutum (Vitiello, 1967)
Daptonema invagiferoum (Platt, 1973)
Daptonema kornoeense (Allgén, 1929)
Daptonema longicaudatum (Filipjev, 1922)
Daptonema nanum (Lorenzen, 1972)
Daptonema normandicum (de Man, 1890)
Daptonema oxycerca (de Man, 1888)
Daptonema proprium (Lorenzen, 1972)
Daptonema riemanni (Platt, 1973)
Daptonema setifer (Gerlach, 1952)
Daptonema setosum (Bütschli, 1874)
Daptonema stylosum (Lorenzen, 1973)
Daptonema svalbardense (Gerlach, 1965)
Daptonema tenuispiculum (Ditlevsen, 1918)
Daptonema trabeculosum (Schneider, 1906)
Daptonema trichinus (Gerlach, 1956)
Daptonema xyaliforme Wieser & Hopper, 1967
Dasynemella albaensis Warwick & Platt, 1973
Dasynemoides albaensis (Warwick & Platt, 1973)
Deontolaimus papillatus de Man, 1880
Desmodora communis (Bütschli, 1874)
Desmodora hirsuta (Chitwood, 1936)
Desmodora microchaeta Allgén, 1929
Desmodora pontica (Filipjev, 1922)
Desmodora schulzi Gerlach, 1950
Desmodora tenuispiculum Allgén, 1928
Desmodorella tenuispiculum Allgén, 1928
Desmolaimus zeelandicus de Man, 1880
Desmolaimus zosterae Allgén, 1933
Desmoscolex frontalis Gerlach, 1952
Desmoscolex longisetosus Timm, 1970
Dichromadora abnormis Gerlach, 1953
Dichromadora cephalata (Steiner, 1916)
Dichromadora cucullata Lorenzen, 1973
Dichromadora geophila (de Man, 1876)
Dichromadora hyalocheile De Coninck & Schuurmans Stekhoven, 1933
Dichromadora scandula Lorenzen, 1966
Diplolaimella dievengatensis Jacobs & Vrancken, 1989
Diplolaimella ocellata (Bütschli, 1874)



Diplopeltula asetosa Juario, 1974
Diplopeltula belgica Vincx, 1992
Diplopeltula curta Vincx, 1992
Diplopeltula ostrita Boucher & Helléouet, 1977
Dolicholaimus obtusus Stekhoven, 1935
Dracognomus tinae Jensen, 1981
Echinotheristus teutonicus Thun & Riemann, 1967
Eleutherolaimus amasi Bouwman, 1981
Eleutherolaimus iniquisetosus Schuurmans Stekhoven, 1935
Eleutherolaimus stenosoma (de Man, 1907)
Enoploides delamarei Boucher, 1977
Enoploides labiatus (Bütschli, 1874)
Enoploides longispiculosus Vitiello, 1967
Enoploides spiculohamatus Schulz, 1932
Enoploides tyrrhenicus Brunetti, 1949
Enoplolaimus conicollis Gerlach, 1952
Enoplolaimus denticulatus Warwick, 1970
Enoplolaimus litoralis Schulz, 1936
Enoplolaimus longicaudatus (Southern, 1914)
Enoplolaimus propinquus de Man, 1922
Enoplolaimus subterraneus Gerlach, 1953
Enoplolaimus zosterae Schulz, 1932
Enoplus communis Bastian, 1865
Epsilonema pustulatum (Gerlach, 1952)
Epsilonema serrulatum Lorenzen, 1973
Eubostrichus smo Platt & Zhang, 1982
Euchromadora vulgaris (Bastian, 1865) De Man, 1886
Eumorpholaimus sabulicolus Schulz, 1932
Eurystomina filiformis (de Man, 1888)
Eurystomina terricola (de Man, 1907)
Filitonchus filiformis Warwick, 1971
Gammanema conicauda Gerlach, 1953
Gammanema rapax (Ssaweljev, 1912)
Gerlachius lissus (Gerlach, 1956)
Gonionchus cumbraensis Benwell, 1981
Gonionchus heipi Vincx, 1986
Gonionchus inaequalis Warwick & Platt, 1973
Gonionchus longicaudatus (Ward, 1972)
Gonionchus paravillosus Blome, 1982
Gonionchus villosus Cobb, 1920
Halalaimus capitulatus Boucher, 1978
Halalaimus cirrhatus Gerlach, 1953
Halalaimus curvicaudatus Juario, 1974
Halalaimus fletcheri Mawson 1958
Halalaimus gracilis de Man, 1888
Halalaimus longicaudatus (Filipjev, 1927)
Halalaimus longicollis Allgén, 1932
Halalaimus striatus Gerlach, 1956
Halalaimus terrestris Gerlach, 1959



Halaphanolaimus harpaga Boucher & de Bovée, 1972
Halaphanolaimus longisetosus Allgén, 1928
Halaphanolaimus pellucidus Southern, 1914
Halichoanolaimus robustus (Bastian, 1865)
Haliplectus dorsalis Chitwood, 1956
Halomonhystera disjuncta (Bastian, 1865)
Hypodontolaimus balticus (Schneider, 1906)
Hypodontolaimus inaequalis (Bastian, 1865)
Hypodontolaimus schuurmansstekhoveni Gerlach, 1951
Hysterothylacium aduncum (Rudolphi, 1802)
Innocuonema tentabunda (de Man, 1890)
Ixonema sordidum Lorenzen, 1971
Karkinochromadora lorenzeni (Jensen, 1980) Blome, 1982
Karkinochromadora lorenzi (Jensen, 1980)
Kathlania leptura (Rudolphi, 1819)
Kraspedonema octogoniata Gerlach, 1954
Latronema aberrans (Allgén, 1934)
Latronema deconincki Boucher, 1976
Latronema orcinum (Gerlach, 1952)
Leptolaimoides haploopis Jensen, 1978
Leptolaimus ampullaceus Warwick, 1970
Leptolaimus elegans (Stekhoven & De Coninck, 1933)
Leptolaimus membranatus (Wieser, 1951)
Leptolaimus papilliger de Man, 1876
Leptolaimus setiger Schuurmans Stekhoven & De Coninck, 1933
Leptolaimus venustus Lorenzen, 1972
Leptolaimus vinnulus Vitiello, 1974
Leptonemella aphanothecae Gerlach, 1950
Leptonemella granulosa Boucher, 1975
Linhomoeus elongatus Bastian, 1865
Linhomoeus filaris Lorenzen, 1973
Linhystera problematica Juario, 1974
Manunema annulatum (Vitiello & De Coninck, 1968)
Mesacanthion africanthiiforme Warwick, 1970
Mesacanthion diplochma (Southern, 1914)
Mesacanthion hirsutum Gerlach, 1953
Metachromadora quadribulba Gerlach, 1956
Metachromadora remanei Gerlach, 1951
Metachromadora suecica (Allgén, 1929)
Metachromadora vivipara (de Man, 1907)
Metadasynemoides lata Gerlach, 1957
Metadesmolaimus aduncus Lorenzen, 1972
Metadesmolaimus gaelicus Platt, 1983
Metadesmolaimus gelana (Warwick & Platt, 1973)
Metadesmolaimus heteroclitus Lorenzen, 1972
Metadesmolaimus pandus Lorenzen, 1972
Metalinhomoeus filiformis (de Man, 1907)
Metalinhomoeus typicus de Man, 1907
Metaparoncholaimus campylocercus (de Man, 1876)



Metaraeolaimoides oxystoma De Coninck, 1936
Metepsilonema callosum Lorenzen, 1973
Metepsilonema comptum Decraemer & Goubault, 2000
Metepsilonema emersum Lorenzen, 1973
Metepsilonema hagmeieri (Stauffer, 1924)
Metoncholaimus pristiurus (Zur Strassen, 1894)
Metoncholaimus scanicus (Allgén, 1935)
Microaimus acinaces Warwick & Platt, 1973
Microaimus acuticaudatus De Coninck & Schuurmans Stekhoven, 1933
Microaimus annelisiae Jensen, 1976
Microaimus arenicola Schulz, 1938
Microaimus compridus Gerlach, 1956
Microaimus conothelis (Lorenzen, 1973)
Microaimus conspicuus Lorenzen, 1973
Microaimus cyatholaimoides de Man, 1922
Microaimus globiceps de Man, 1880
Microaimus marinus (Schulz, 1932)
Microaimus ostracion Schuurmans Stekhoven, 1935
Microaimus paraborealis Allgén, 1940
Microaimus pinguis Wieser, 1954
Microaimus problematicus Allgén, 1932
Microaimus robustidens Schuurmans Stekhoven & De Coninck, 1933
Molgolaimus cuanensis Platt, 1973
Molgolaimus minutus Jensen, 1978
Molgolaimus turgofrons (Lorenzen, 1972)
Monhystera disjuncta (Bastian, 1865)
Monhystera microphthalma de Man, 1880
Monhystera parelegantula De Coninck, 1943
Monhystera pusilla Boucher & Helléouet, 1977
Monhystera venusta Lorenzen, 1979
Monhystrella macrura (de Man, 1880)
Mononcholaimus separabilis Wieser, 1953
Monoposthia costata (Bastian, 1865)
Monoposthia mirabilis Schulz, 1932
Nannolaimus fusus Gerlach, 1956
Neochromadora angelica Riemann, 1976
Neochromadora munita Lorenzen, 1971
Neochromadora nicolae Vincx, 1986
Neochromadora paratecta Blome, 1974
Neochromadora poecilosoma (de Man, 1893)
Neochromadora poecilosomoides (Filipjev, 1918)
Neochromadora quinquepapillata Stekhoven, 1935
Neochromadora tecta Gerlach, 1951
Neochromadora trichophora (Steiner, 1921)
Nudora goubaultae Vanreusel & Vincx, 1989
Odontophora armata (Ditlevsen, 1918)
Odontophora exharena Warwick & Platt, 1973
Odontophora longicaudata Schuurmans Stekhoven & De Coninck, 1933
Odontophora longisetosa (Allgén, 1928)



Odontophora octoseta Boucher & Helléouet, 1977
Odontophora ornata Lorenzen, 1972
Odontophora paravilloti Blome, 1982
Odontophora phalarata Lorenzen, 1972
Odontophora rectangula Lorenzen, 1972
Odontophora setosa (Allgén, 1929)
Odontophora villoti Luc & De Coninck, 1959
Odontophoroides monhystera Gerlach, 1953
Odontophoroides paramonhystera Lamshead, 1982
Oncholaimellus calvadosicus de Man, 1890
Oncholaimellus mediterraneus Schuurmans Stekhoven, 1942
Oncholaimus brachycercus de Man, 1889
Oncholaimus oxyuris Ditlevsen, 1911
Oncholaimus skawensis Ditlevsen, 1921
Onyx perfectus Cobb, 1891
Onyx sagittarius Gerlach, 1950
Oxyonchus dentatus (Ditlevsen, 1918) Filipjev, 1927
Oxystomina elongata Bütschli, 1874
Panagrolaimus rigidus (Schneider, 1866)
Paracanthonchus caecus (Bastian 1865)
Paracanthonchus heterodontus (Schulz, 1932)
Paracanthonchus longus Allgén, 1934
Paracanthonchus spectabilis Allgén, 1931
Paracanthonchus thaumasius (Schulz, 1932)
Paracyatholaimoides asymmetricus Boucher, 1975
Paracyatholaimoides labiosetosus Riemann, 1966
Paracyatholaimoides multispinalis Gerlach, 1953
Paracyatholaimus intermedius (de Man, 1880)
Paracyatholaimus occultus Gerlach, 1956
Paracyatholaimus pentodon Riemann, 1966
Paralinhomoeus filiformis (Filipjev, 1918)
Paralinhomoeus lepturus (de Man, 1907)
Parallelocoilas dolfusi Boucher, 1975
Paralongicyatholaimus macramphis Lorenzen, 1972
Paramesonchium belgicum Jensen, 1976
Paramicrolaimus conothelis Lorenzen, 1973
Paramonhystera megacephala Wieser, 1956
Paramonhystera riemanni Platt, 1973
Paramonohystera elliptica (Filipjev, 1918)
Paramonohystera pellucida (Cobb, 1920)
Pararaeolaimus nudus (Gerlach, 1951)
Pareurystomina acuminata (de Man, 1889)
Perepsilononema crassum Lorenzen, 1973
Phyllolaimus tridentatus Murphy, 1963
Pomponema ammophilum Lorenzen, 1972
Pomponema compactum Lorenzen, 1972
Pomponema coomansi Vincx, 1981
Pomponema elegans Lorenzen, 1972
Pomponema loticum Lorenzen, 1972



Pomponema multipapillatum (Filipjev, 1922)
Pomponema sedecima Platt, 1973
Pomponema syltense Blome, 1974
Pomponema tautraense (Allgén, 1933)
Pomponema tessellatum Wieser & Hopper, 1967
Pontonema vulgare (Bastian, 1865)
Praeacanthonchus punctatus (Bastian, 1865)
Procamacolaimus papillosus Warwick, 1973
Prochaetosoma mediterranicum Allen & Noffsinger, 1978
Prochromadorella attenuata (Gerlach, 1952)
Prochromadorella ditlevseni (de Man, 1922)
Prochromadorella longicaudata (Kreis, 1929)
Prochromadorella obtusidens (Schuurmans Stekhoven & Adam, 1931)
Prochromadorella paramucrodonta (Allgén, 1929) Wieser, 1951
Prochromadorella septempapillata Platt, 1973
Proleptus obtusus Dujardin, 1845
Promonhystera faber Wieser, 1956
Pselionema longiseta Ward, 1974
Pselionema longissimum Gerlach, 1953
Pseudocella trichodes (Leuckart, 1849)
Pseudonchus decempapillatus Ward, 1974
Pseudonchus deconincki Warwick, 1969
Ptycholaimellus ponticus (Filipjev, 1922)
Ptycholaimellus vincxae Jensen & Nehring, 1992
Rhabditis (Pellioditis) marina Bastian, 1865
Rhabdocoma americana Cobb, 1920
Rhabdocoma birgittae Jensen, 1976
Rhabdodemia birgittae Jensen, 1976
Rhabdodemia imer Warwick & Platt, 1973
Rhabdodemia minor (Southern, 1914)
Rhadinema flexile Cobb, 1920
Rhips ornata Cobb, 1920
Rhynchonema ceramotos Boucher, 1974
Rhynchonema falcifera Boucher, 1974
Rhynchonema lyngei (Allgén, 1940)
Rhynchonema megamphida Boucher, 1974
Rhynchonema moorea Boucher, 1974
Rhynchonema quemer Boucher, 1974
Rhynchonema scutatum Lorenzen, 1972
Richtersia deconincki Vincx, 1981
Richtersia inaequalis Riemann, 1966
Sabatieria armata Gerlach, 1952
Sabatieria breviseta Schuurmans Stekhoven, 1935
Sabatieria celtica Southern, 1914
Sabatieria elongata Jayasree & Warwick, 1977
Sabatieria longispinosa Lorenzen, 1972
Sabatieria praedatrix de Man, 1907
Sabatieria pulchra (Schneider, 1906)
Sabatieria punctata (Kreis, 1924)



Sabatieria rota Gerlach, 1957
Sabatieria tenuicaudata (Bastian, 1865)
Sarsonia leptosoma (de Man, 1893)
Setosabatieria hilarula (de Man, 1922)
Sigmophoranema rufum (Cobb, 1933)
Siphonolaimus ewensis Warwick & Platt, 1973
Sphaerolaimus balticus Schneider, 1906
Sphaerolaimus gracilis de Man, 1876
Sphaerolaimus hirsutus Bastian, 1865
Spilophorella candida Gerlach, 1951
Spilophorella papillata Kreis, 1929
Spilophorella paradoxa (de Man, 1888)
Spirinia laevis (Bastian, 1865)
Spirinia parasitifera (Bastian, 1865)
Stephanolaimus bicoronatus Boucher & Helléouët, 1977
Stephanolaimus elegans Ditlevsen, 1932
Stephanolaimus flevensis Schuurmans Stekhoven, 1935
Stephanolaimus gandavensis Jensen, 1976
Stephanolaimus jayasreei Platt, 1983
Stephanolaimus longispiculum Vadhyar, 1981
Stygodesmodora epixantha Blome, 1982
Stylotheristus mutila Lorenzen, 1973
Symplocostoma tenuicolle (Eberth, 1863)
Synodontium sansingi Hopper, 1963
Synonchiella riemanni Warwick, 1970
Synonchus brevisetosus (Southern, 1914)
Synonchus fasciculatus Cobb, 1893
Syringolaimus caspersi Gerlach, 1951
Syringolaimus striatocaudatus de Man, 1888
Tarvaia angusta Gerlach, 1953
Terschellingia communis de Man, 1888
Terschellingia longicaudata de Man, 1907
Thalassironus britannicus de Man, 1889
Thalassolaimus septentrionalis Filipjev, 1927
Thalassolaimus tardus de Man, 1893
Thalassomonhystera parva (Bastian, 1865)
Thalassomonhystera venusta (Lorenzen, 1979)
Theristus acer Bastian, 1865
Theristus acrilabiatus Kreis, 1928
Theristus anisocirculus Blome, 1982
Theristus balticus Lorenzen, 1973
Theristus bastiani Gerlach & Riemann, 1973
Theristus blandicor Rachor, 1971
Theristus denticulatus Warwick, 1970
Theristus ensifer Gerlach, 1951
Theristus heterospiculoides Gerlach, 1953
Theristus interstitialis Warwick, 1970
Theristus longicollis Blome, 1982
Theristus longisetosus (De Coninck & Schuurmans Stekhoven, 1933)



Theristus longissimicauda Lorenzen, 1973
Theristus longissimicaudatus Kreis, 1935
Theristus longus Platt, 1973
Theristus maior Gerlach, 1956
Theristus mirabilis De Coninck & Stekhoven, 1933
Theristus otoplanobius Gerlach, 1951
Theristus parasetosus (Allgén, 1928)
Theristus pertenuis Schuurmans Stekhoven, 1935
Theristus problematicus (Allgén, 1928)
Theristus profundus Blome, 1982
Theristus roscoffiensis Vitiello, 1967
Theristus scanicus Allgén, 1949
Theristus velox (Bastian, 1865)
Thoracostomopsis ditlevseni Filipjev, 1927
Trefusia curvispiculosa Vincx, 1989
Trefusia litoralis (Allgén, 1932)
Trefusia longicauda de Man, 1893
Trefusia longicaudata de Man, 1893
Trichotheristus mirabilis (Schuurmans Stekhoven & De Coninck, 1933)
Tricoma brevirostris (Southern, 1914)
Tricoma longirostris (Southern, 1914)
Tricoma polydesma (Southern, 1914)
Tricoma steineri de Man, 1922
Tricoma strandi (Allgén, 1939)
Trileptium parisetum Warwick & Platt, 1973
Tripyloides gracilis (Ditlevsen, 1918)
Tripyloides marinus (Bütschli, 1874)
Trissonchulus obtusus (Schuurmans Stekhoven, 1935)
Tubolaimoides tenuicaudatus (Allgén, 1934)
Valvaelaimus maior Gerlach, 1956
Viscosia coomansi Smol & Sharma, 1984
Viscosia elegans (Kreis, 1924)
Viscosia franzii Boucher, 1978
Viscosia glabra (Bastian, 1865) De Man, 1890
Viscosia langrunensis (de Man, 1890)
Viscosia separabilis (Wieser, 1953)
Viscosia viscosa (Bastian, 1865) De Man, 1890
Wieseria inaequalis Gerlach, 1956
Wieseria pica Gerlach, 1956
Xyala imparis Boucher & Helléouët, 1977
Xyala riemanni Boucher & Helléouët, 1977
Xyala striata Cobb, 1920



ROTIFERA - ROTIFERS, WHEEL ANIMALS

Taxonomic validation:

- Dr. Hendrik Segers (Royal Belgian Institute of Natural Sciences – KBIN, Belgium)

Geographic validation:

- Dr. Hendrik Segers (Royal Belgian Institute of Natural Sciences – KBIN, Belgium)

Number of species: 20

Brachionus plicatilis Müller, 1786
Colurella adriatica Ehrenberg, 1831
Colurella colurus (Ehrenberg, 1830)
Colurella dicentra (Gosse, 1887)
Colurella salina Althaus, 1957
Encentrum marinum (Dujardin, 1841)
Encentrum obesum Tzschaschel, 1979
Encentrum tenuidigitatum De Smet, 2000
Encentrum villosum Harring & Myers, 1928
Keratella eichwaldi (Levander, 1894)
Proales christinae De Smet, 1994
Proales halophila Remane, 1929
Proales reinhardti (Ehrenberg, 1834)
Proales theodora (Gosse, 1887)
Synchaeta baltica Ehrenberg, 1834
Synchaeta triophthalma Lauterborn, 1894
Synchaeta vorax Rousselet, 1902
Testudinella clypeata (Müller, 1786)
Testudinella patina (Hermann, 1783)
Trichocerca marina (Daday, 1890)

KINORHYNCHA - SPINY-CROWN WORMS

Taxonomic validation:

- Dr. Birger Neuhaus (Museum für naturkunde, Institute of systematic zoology, Germany)

Geographic validation:

- Dr. Birger Neuhaus (Museum für naturkunde, Institute of systematic zoology, Germany)

Number of species: 2

Echinoderes dujardini Claparède, 1863
Echinoderes setiger Greef, 1869



SIPUNCULA - PEANUT WORMS

Taxonomic validation:

- José Saiz-Salinas

Geographic validation:

- ILVO macrofauna data: macrofauna monitoring on the Belgian Part of the North Sea since 1979. Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit (ILVO)

Number of species: 2

Golfingia (Golfingia) vulgaris vulgaris (De Blainville, 1827)

Phascolion (Phascolion) strombus (Montagu, 1804)

ECHIURA - SPOON WORMS

Taxonomic validation:

- Dr. John Pilger (Agnes Scott College, Biology Department, USA)

Geographic validation:

Based on available literature and data for the Belgian part of the North Sea

Number of species: 2

Echiurus echiurus (Pallas, 1767)

Thalassema thalassema (Pallas, 1766)

MOLLUSCA - MOLLUSKS

Not all shells found on our beach are remnants of species actually living in the Belgian part of the North Sea. Shells can travel quite some distance before washing ashore or they are fossilized.

Here, only the species with known occurrences of living individuals are listed. For an overview of all shells and fossils which can be encountered in the Belgian part of the North Sea, we refer to literature and guides dealing with this information, for example “Schelpen aan de Belgische kust” published in 2010 by Koen Fraussen and Stefaan Wera.

Mollusca represent a very diverse and complex species group. Of all Molluscan classes, only 4 have living representatives in the Belgian part of the North Sea: Polyplacophora, Bivalvia, Gastropoda and Cephalopoda. For the other classes (Scaphopoda, Caudofoveata, Solenogastres and Monoplacophora), no representatives are known for the study area.

Polyplacophora - chitons

Taxonomic validation:

- Serge Gofas (University of Málaga, Spain)



Geographic validation:

- Francis Kerckhof (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)

Number of species: 1

Leptochiton asellus (Gmelin, 1791)

Bivalvia - bivalves and clams

Taxonomic validation:

- Henk Dijkstra (University of Amsterdam, Zoological Museum Amsterdam – UVA-ZMA, The Netherlands)
- Serge Gofas (University of Málaga, Spain)
- Jan Johan ter Poorten (the Netherlands)
- Dr. Rudo von Cosel (National Natural History Museum Paris - MNHN, France)

Geographic validation:

- Francis Kerckhof (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)

Number of species: 69

Permanent: 68, of which 7 are non-indigenous (*)

Abra alba (Wood W., 1802)
Abra tenuis (Montagu, 1803)
Acanthocardia echinata (Linnaeus, 1758)
Aequipecten opercularis (Linnaeus, 1758)
Arcopagia crassa (Pennant, 1777)
Barnea candida (Linnaeus, 1758)
Barnea parva (Pennant, 1777)
Cerastoderma edule (Linnaeus, 1758)
Cerastoderma glaucum (Bruguère, 1789)
Chamelea gallina (Linnaeus, 1758)
Chamelea striatula (da Costa, 1778)
Corbula gibba (Olivi, 1792)
Crassostrea gigas (Thunberg, 1793) (*)
Diplodonta rotundata (Montagu, 1803)
Donax vittatus (da Costa, 1778)
Dosinia exoleta (Linnaeus, 1758)
Ensis directus (Conrad, 1843) (*)
Ensis magnus Schumacher, 1817
Ensis minor (Chenu, 1843)
Epilepton clarkiae (Clark W., 1852)
Gari fervensis (Gmelin, 1791)
Gastrochaena dubia (Pennant, 1777)
Goodallia triangularis (Montagu, 1803)



Hemilepton nitidum (Turton, 1822)
Heteranomia squamula (Linnaeus, 1758)
Hiatella arctica (Linnaeus, 1767)
Hiatella rugosa (Linnaeus, 1767)
Kellia suborbicularis (Montagu, 1803)
Kurtiella bidentata (Montagu, 1803)
Laevicardium crassum (Gmelin, 1791)
Lepton squamosum (Montagu, 1803)
Lutraria angustior Philippi, 1844
Lutraria lutraria (Linnaeus, 1758)
Macoma balthica (Linnaeus, 1758)
Mactra stultorum (Linnaeus, 1758)
Mercenaria mercenaria (Linnaeus, 1758) (*)
Mimachlamys varia (Linnaeus, 1758)
Modiolarca subpicta (Cantraine, 1835)
Modiolus modiolus (Linnaeus, 1758)
Mya arenaria Linnaeus, 1758 (*)
Mya truncata Linnaeus, 1758
Mytilus edulis Linnaeus, 1758
Nucula nucleus (Linnaeus, 1758)
Ostrea edulis Linnaeus, 1758
Paphia rhomboides (Pennant, 1777)
Pecten maximus (Linnaeus, 1758)
Petricola pholadiformis Lamarck, 1818 (*)
Phaxas pellucidus (Pennant, 1777)
Psiloterredo megotara (Hanley in Forbes & Hanley, 1848) (*)
Scrobicularia plana (da Costa, 1778)
Solen marginatus Pulteney, 1799
Sphenia binghami Turton, 1822
Spisula elliptica (Brown, 1827)
Spisula solida (Linnaeus, 1758)
Spisula subtruncata (da Costa, 1778)
Striarca lactea (Linnaeus, 1758)
Tapes (Tapes) rhomboides (Pennant, 1777)
Tellimya ferruginosa (Montagu, 1808)
Tellina (Moerella) donacina Linnaeus, 1758
Tellina fabula Gmelin, 1791
Tellina pygmaea Lovén, 1846
Tellina tenuis da Costa, 1778
Teredo navalis Linnaeus, 1758 (*)
Thracia papyracea (Poli, 1791)
Thracia villosiuscula (MacGillivray, 1827)
Venerupis geographica (Gmelin, 1791)
Venerupis senegalensis (Gmelin, 1791)
Zirfaea crispata (Linnaeus, 1767)

Vagrant: 1

Neopycnodonte cochlear (Poli, 1795)



Gastropoda - snails and slugs

Taxonomic validation:

- Serge Gofas (University of Málaga, Spain)
- Roland Houart (Royal Belgian Institute of Natural Sciences – KBIN, Belgium)
- Dr. David Reid (Natural History Museum, UK)

Geographic validation:

- Francis Kerckhof (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)
- Emmanuel Dumoulin (Strandwerkgroep – SWG, Belgium)

Number of species: 54, of which 1 is non-indigenous (*)

Acanthodoris pilosa (Abildgaard in Müller, 1789)
Aeolidia papillosa (Linnaeus, 1761)
Alderia modesta (Lovén, 1844)
Alvania lactea (Michaud, 1832)
Assimineia grayana Fleming, 1828
Buccinum undatum Linnaeus, 1758
Caecum glabrum (Montagu, 1803)
Calliostoma zizyphinum (Linnaeus, 1758)
Cerithiopsis tubercularis (Montagu, 1803)
Chrysallida interstincta (Adams J., 1797)
Chrysallida pellucida (Dillwyn, 1817)
Clione limacina (Phipps, 1774)
Crepidula fornicata (Linnaeus, 1758) (*)
Crisilla semistriata (Montagu, 1808)
Cuthona amoena (Alder & Hancock, 1845)
Cuthona concinna (Alder & Hancock, 1843)
Cuthona gymnota (Couthouy, 1838)
Cuthona nana (Alder & Hancock, 1842)
Dendronotus frondosus (Ascanius, 1774)
Doris pseudoargus Rapp, 1827)
Doto pinnatifida (Montagu, 1804)
Epitonium clathratulum (Kanmacher, 1798)
Epitonium clathrus (Linnaeus, 1758)
Eubranchius pallidus (Alder & Hancock, 1842)
Euspira catena (da Costa, 1778)
Euspira pulchella (Risso, 1826)
Facelina bostoniensis (Couthouy, 1838)
Gibbula cineraria (Linnaeus, 1758)
Hydrobia ulvae (Pennant, 1777)
Limapontia depressa Alder & Hancock, 1862
Littorina littorea (Linnaeus, 1758)
Littorina obtusata (Linnaeus, 1758)
Littorina saxatilis (Olivi, 1792)
Lomanotus marmoratus (Alder & Hancock, 1845)
Myosotella myosotis (Draparnaud, 1801)
Nassarius incrassatus (Ström, 1768)



Nassarius nitidus (Jeffreys, 1867)
Nassarius reticulatus (Linnaeus, 1758)
Nucella lapillus (Linnaeus, 1758)
Odostomia scalaris MacGillivray, 1843
Odostomia turrita Hanley, 1844
Onchidoris bilamellata (Linnaeus, 1767)
Onoba semicostata (Montagu, 1803)
Patella vulgata Linnaeus, 1758
Purpura lapillus (Linnaeus, 1758)
Pusillina inconspicua (Alder, 1844)
Raphitoma linearis (Montagu, 1803)
Retusa obtusa (Montagu, 1803)
Rissoa parva (da Costa, 1778)
Tenellia adpersa (Nordmann, 1845)
Tergipes tergipes (Forskål, 1775)
Tritonia plebeia Johnston, 1828
Trivia arctica (Pulteney, 1799)
Trivia monacha (da Costa, 1778)

Cephalopoda - cephalopods

Taxonomic validation:

- Serge Gofas (University of Málaga, Spain)

Geographic validation:

- Francis Kerckhof (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)
- ILVO macrofauna data: macrofauna monitoring on the Belgian Part of the North Sea since 1979. Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit (ILVO, Belgium)

Number of species: 5

Alloteuthis subulata (Lamarck, 1798)
Loligo vulgaris Lamarck, 1798
Sepia officinalis Linnaeus, 1758
Sepietta oweniana (d'Orbigny, 1839)
Sepiolo atlantica d'Orbigny, 1839

OLIGOCHAETA - EARTH WORMS

Taxonomic validation:

- Tarmo Timm (Estonian Agricultural University, Estonia)
- Christer Erséus (University of Gothenburg, Sweden)

Geographic validation:

- Jan Soors (Research Institute for Nature and Forest – INBO, Belgium)



Number of species: 11, of which 1 is non-indigenous (*)

Achaeta littoralis Lasserre, 1968
Amphichaeta sannio Kallstenius, 1892
Clitellio arenarius (Müller, 1776)
Grania postclitellochaeta (Knöllner, 1935)
Heterochaeta costata Claparède, 1863
Paranais litoralis (Müller, 1780)
Thalassodrilus klarae (Erséus, 1987)
Tubificoides benedii (Udekem, 1855)
Tubificoides brownae Brinkhurst & Baker, 1979
Tubificoides diazi Brinkhurst & Baker, 1979
Tubificoides heterochaetus (Michaelsen, 1926) (*)

POLYCHAETA - BRISTLE WORMS

Taxonomic validation:

- Dr. Ruth Barnich (Senckenbergische Naturforschende Gesellschaft, Naturmuseum und Forschungsinstitut Senckenberg, Abteilung Aquatische Zoologie, Sektion Marine Evertbrates II, Germany)
- Dr. Gérard Bellan (Centre National de la Recherche Scientifique, Institut National de Science de l'Univers, Centre d'Océanologie de Marseille, Station Marine d'Endoume, France)
- Kristian Fauchald (National Museum of Natural History, Smithsonian Institution - NMNM, UK)
- Dieter Fiege (Senckenbergische Naturforschende Gesellschaft, Naturmuseum und Forschungsinstitut Senckenberg, Abteilung Aquatische Zoologie, Sektion Marine Evertbrates II, Germany)
- Dr. Christopher Glasby (Natural Sciences Museum & Art Gallery of the Northern Territory, Australia)
- Dr. Luigi Musco (Consorzio Nazionale Interuniversitario per le Scienze del Mare, University of Lecce, Dipartimento di Scienze e Tecnologie Biologiche e Ambientali, Laboratory of Zoology and Marine Biology – LZMB, Italy)
- Geoffry Read (National Institute of Water and Atmospheric Research – NIWA, New Zealand)
- Harry ten Hove (University of Amsterdam, Faculteit der Natuurwetenschappen, Wiskunde en Informatica, Zoologisch Museum Amsterdam – UVA-ZMA, the Netherlands)

Geographic validation:

- ILVO macrofauna data: macrofauna monitoring on the Belgian Part of the North Sea since 1979. Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit (ILVO, Belgium)
- Dr. Steven Degraer (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)
- Francis Kerckhof (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)



Number of species: 150, of which 2 are non-indigenous (*)

Alitta succinea (Frey & Leuckart, 1847)
Alitta virens (M. Sars, 1835)
Ampharete acutifrons (Grube, 1860)
Anaitides maculata (Linnaeus, non de Saint-Joseph)
Aonides oxycephala (Sars, 1862)
Aonides paucibranchiata Southern, 1914
Aphelochaeta marioni (de Saint Joseph, 1894)
Aphrodita aculeata Linnaeus, 1758
Arenicola defodiens Cadman & Nelson-Smith, 1993
Arenicola marina Lamarck, 1801
Aricidea (Acmira) cerrutii Laubier, 1966
Aricidea minuta Southward, 1956
Aricidea suecica Eliason, 1920
Bylgides sarsi (Kinberg in Malmgren, 1866)
Capitella capitata (Fabricius, 1780)
Capitomastus minima (Langerhans, 1881)
Caulleriella killariensis (Southern, 1914)
Chaetopterus variopedatus Cuvier, 1827
Chaetozone setosa Malmgren, 1867
Cirratulus cirratus (O. F. Müller, 1776)
Ctenodrilus serratus (Schmidt, 1857)
Erinaceusyllis erinaceus (Claparède, 1863)
Eteone barbata Malmgren, 1865
Eteone flava (Fabricius, 1780)
Eteone foliosa Quatrefages, 1866
Eteone longa (Fabricius, 1780)
Eulalia bilineata (Johnston, 1840)
Eulalia fuscens Saint-Joseph, 1888
Eulalia pusilla Ørstedt, 1843
Eulalia viridis (Johnston, 1829)
Eumida sanguinea (Ørsted, 1843)
Eunereis longissima Johnston, 1840
Euphrosine armadillo Sars, 1851
Eusyllis blomstrandii Malmgren, 1867
Euzonus flabelligerus (Ziegelmeier, 1955)
Exogone (Exogone) naidina Ørsted, 1845
Exogone (Parexogone) hebes (Webster & Benedict, 1884)
Ficopomatus enigmaticus (Fauvel, 1923) (*)
Gattyana cirrhosa (Pallas, 1766)
Glycera alba (O.F. Müller, 1776)
Glycera capitata Ørsted, 1843
Glycera convoluta Keferstein, 1862
Glycera gigantea Quatrefages, 1866
Glycera lapidum Quatrefages, 1865
Glycera rouxi Audouin & Milne Edwards, 1833
Glycera tessellata Grube, 1840
Glycinde nordmanni (Malmgren, 1866)
Goniada maculata Ørsted, 1843



Goniadella bobretzkii (Annenkova, 1929)
Goniadella galaica (Rioja, 1923)
Harmothoe extenuata (Grube, 1840)
Harmothoe impar (Johnston, 1839)
Harmothoe longisetis (Grube, 1863)
Hediste diversicolor (O.F. Müller, 1776)
Hesionura augeneri (Friedrich, 1937)
Hesionura elongata (Southern, 1914)
Heteromastus filiformis (Claparède, 1864)
Hydroides norvegicus Gunnerus, 1768
Lanice conchilega Pallas, 1766
Lepidonotus squamatus (Linnaeus, 1758)
Lumbrineris fragilis (O.F. Müller, 1766)
Lumbrineris latreilli Audouin & Milne Edwards, 1834
Lysilla loveni Malmgren, 1866
Macrochaeta helgolandica Friedrich, 1936
Magelona filiformis Wilson, 1959
Magelona johnstoni Fiege, Licher & Mackie, 2000
Magelona mirabilis (Johnston, 1865)
Malacoceros fuliginosus (Claparède, 1869)
Malmgreniella arenicolae (de Saint Joseph, 1888)
Malmgreniella castanea (McIntosh, 1876)
Malmgreniella glabra (Malmgren, 1866)
Malmgreniella lunulata (Delle Chiaje, 1830)
Manayunkia aestuarina (Bourne, 1883)
Marenzelleria viridis (Verrill, 1873)
Marenzelleria wireni Augener, 1913 (*)
Marphysa sanguinea (Montagu, 1815)
Maupasias coeca Viguier, 1886
Mediomastus fragilis Rasmussen, 1973
Microphthalmus similis Bobretzky, 1870
Myrianida prolifera (O.F. Müller, 1788)
Mysta picta (Quatrefages, 1865)
Nephtys assimilis Örsted, 1843
Nephtys caeca (Fabricius, 1780)
Nephtys cirrosa (Ehlers, 1868)
Nephtys hombergii Savigny in Lamarck, 1818
Nephtys kersivalensis McIntosh, 1908
Nephtys longosetosa Örsted, 1843
Nereis pelagica Linnaeus, 1758
Notomastus latericeus Sars, 1851
Odontosyllis ctenostoma Claparède, 1868
Odontosyllis fulgurans (Audouin & Milne-Edward, 1833)
Ophelia borealis Quatrefages, 1866
Ophelia limacina (Rathke, 1843)
Ophelia rathkei McIntosh, 1908
Ophiodromus flexuosus (Delle Chiaje, 1827)
Ophryotrocha gracilis Huth, 1933
Orbinia latreillii (Audouin & Milne-Edwards, 1833)



Owenia fusiformis Delle Chiaje, 1844
Parougia eliasoni (Oug, 1978)
Pectinaria (Lagis) koreni (Malmgren, 1866)
Pholoe inornata Johnston, 1839
Pholoe minuta (Fabricius, 1780)
Pholoe pallida Chambers, 1985
Phyllodoce (Anaitides) groenlandica Oersted, 1842
Phyllodoce laminosa Savigny in Lamarck, 1818
Phyllodoce lineata (Claparède, 1870)
Phyllodoce longipes Kinberg, 1866
Phyllodoce mucosa (Örsted, 1843)
Phyllodoce rosea (McIntosh, 1877)
Pisone remota (Southern, 1914)
Podarkeopsis capensis (Day, 1963)
Poecilochaetus serpens Allen, 1904
Polydora ciliata (Johnston, 1838)
Polydora cornuta Bosc, 1802
Polydora hoplura Claparède, 1869
Polygordius appendiculatus Fraipont, 1887
Pomatoceros lamarcki (Quatrefages, 1866)
Pomatoceros triqueter (Linnaeus, 1758)
Protodorvillea kefersteini (McIntosh, 1869)
Protodriloides chaetifer (Remane, 1926)
Psammodrillus balanoglossoides Swedmark, 1952
Pseudomystides limbata (Saint-Joseph, 1888)
Pseudopolydora antennata (Claparède, 1869)
Pseudopolydora pulchra (Carazzi, 1895)
Pygospio elegans Claparède, 1863
Sabellaria spinulosa Leuckart, 1849
Sagitella kowalewskii Wagner, 1872
Scoelepis bonnierii (Mesnil, 1896)
Scoelepis fuliginosa (de Claparède, 1868)
Scoelepis (Scoelepis) squamata (O.F. Müller, 1806)
Scoloplos (Scoloplos) armiger (Müller, 1776)
Sigalion mathildae Audouin & Milne Edwards in Cuvier, 1830
Sphaerodorum gracilis (Rathke, 1843)
Sphaerosyllis hystrix Claparède, 1863
Spio filicornis (Müller, 1776)
Spio goniocephala Thulin, 1957
Spiophanes bombyx (Claparède, 1870)
Spiophanes kroyeri Grube, 1860
Sthenelais boa (Johnston, 1833)
Sthenelais limicola (Ehlers, 1864)
Streblospio benedicti Webster, 1879
Streptodonta pterochaeta (Southern, 1914)
Streptosyllis websteri Southern, 1914
Syllidia armata Quatrefages, 1866
Syllis armillaris (O.F. Müller, 1776)
Syllis cornuta Rathke, 1843
Syllis gracilis Grube, 1840
Syllis hyalina Grube, 1863
Thelepus cincinnatus (Fabricius, 1780)
Travisia forbesii Johnston, 1840



PYCNOGONIDA - SEA SPIDERS

Taxonomic validation:

- Dr. Roger Bamber (Natural History Museum, Department of Zoology – UK)

Geographic validation:

- Francis Kerckhof (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)

Number of species: 16

Achelia echinata Hodge, 1864
Achelia laevis Hodge, 1864
Ammothella longipes (Hodge, 1864)
Anoplodactylus petiolatus (Kroyer, 1844)
Anoplodactylus pygmaeus (Hodge, 1864)
Anoplodactylus virescens (Hodge, 1864)
Callipallene brevirostris (Johnston, 1837)
Callipallene emaciata (Dohrn, 1881)
Endeis spinosa (Montagu, 1808)
Nymphon brevirostre Hodge, 1863
Nymphon gracile Leach, 1814
Nymphon hirtum (Fabricius, 1780)
Nymphon leptocheles Sars, 1888
Nymphon subtile Loman, 1923
Phoxichilidium femoratum (Rathke, 1799)
Pycnogonum litorale (Strom, 1762)

BRANCHIOPODA - BRANCHIOPODS

Taxonomic validation:

- Prof. Geoff Boxshall (Natural History Museum – NHM, UK)

Geographic validation:

Based on available literature and data for the Belgian part of the North Sea

Number of species: 3

Bosmina (Bosmina) longirostris (O. F. Müller, 1785)
Chydorus sphaericus (O.F. Müller, 1785)
Podon leuckartii (G.O. Sars, 1862)



OSTRACODA - SEED SHRIMP

Taxonomic validation:

- Drs. Simone Nunes Brandao (University of Hamburg, Zoological Museum Hamburg – ZMH, Germany)
- Dr. David Horne (Queen Mary University of London, UK)

Geographic validation:

- Prof. Dr. Karel Wouters (Royal Belgian Institute of Natural Sciences – KBIN, Belgium)

Number of species: 56

Aurila convexa (Baird, 1850)
Bonnyannella robertsoni (Brady, 1868)
Bythocythere bradyi Sars, 1926
Callistocythere littoralis (G.W. Müller, 1894)
Cyprideis torosa (Jones, 1850)
Cythere lutea O.F. Müller, 1785
Cytherois fischeri (Sars, 1866)
Cytheromorpha fuscata (Brady, 1869)
Cytheropteron depressum Brady & Norman, 1889
Cytheropteron latissimum (Norman, 1865)
Cytheropteron nodosum Brady, 1868
Elofsonia pusilla (Brady & Robertson, 1870)
Eucythere declivis (Norman, 1865)
Eucythere prava Brady & Robertson, 1869
Finmarchinella (Barentsovia) angulata (Sars, 1866)
Finmarchinella finmarchica (Sars, 1866)
Hemicythere villosa (Sars, 1865)
Hemicytherura cellulosa (Norman, 1865)
Hemicytherura clathrata (Sars, 1866)
Heterocythereis albomaculata (Baird, 1838)
Hirschmannia viridis (O.F. Müller, 1785)
Leptocythere baltica Klie, 1929
Leptocythere castanea (Sars, 1866)
Leptocythere lacertosa (Hirschmann, 1912)
Leptocythere macallana (Brady & Robertson, 1869)
Leptocythere pellucida (Baird, 1850)
Leptocythere porcellanea (Brady, 1869)
Leptocythere psammophila Guillaume, 1976
Leptocythere tenera (Brady, 1868)
Loxoconcha elliptica Brady, 1868
Loxoconcha rhomboidea (Fischer, 1855)
Microcytherura boulangiei Rome, 1956
Microcytherura fulva (Brady & Robertson, 1874)
Neocytherideis subulata (Brady, 1868)
Neonesidea acanthigera (Brady, 1868)
Palmoconcha laevata (Norman, 1865)
Paracytherois ensiforme (Brady, 1868)
Paracytherois flexuosa (Brady, 1867)



Paradoxostoma abbreviata Sars, 1866
Paradoxostoma anglicorum Horne & Whittaker, 1985
Paradoxostoma variabile (Baird, 1835)
Pontocythere elongata (Brady, 1868)
Propontocypris trigonella (Sars, 1866)
Sagmatocythere multifora (Norman, 1865)
Sclerochilus abbreviatus Brady & Robertson, 1869
Sclerochilus contortus (Norman, 1862)
Semicytherura acuticostata (Sars, 1866)
Semicytherura angulata (Brady, 1868)
Semicytherura cornuta (Brady, 1868)
Semicytherura nigrescens (Baird, 1838)
Semicytherura sella (Sars, 1866)
Semicytherura striata (Sars, 1866)
Semicytherura undata (Sars, 1866)
Urocythereis britannica Athersuch, 1977
Xestoleberis aurantia (Baird, 1838)
Xestoleberis depressa Sars, 1866

COPEPODA - COPEPODS

Taxonomic validation:

- Prof. Geoff Boxshall (Natural History Museum, Department of Zoology – UK)
- Dr. Rony Huys (Natural History Museum; Department of Zoology – UK)
- Dr. Juliana Kouwenberg (University of Amsterdam, Faculteit der Natuurwetenschappen, Wiskunde en Informatica, Zoologisch Museum Amsterdam – UVA-ZMA, the Netherlands)
- Chad Walter (Smithsonian Institution, National Museum of Natural History; Department of Invertebrate Zoology – IZ, USA)

Geographic validation:

Species list based on available literature and data for the Belgian part of the North Sea

Number of species: 194

Acanthochondria cornuta (Müller, 1776)
Acanthochondria soleae (Krøyer, 1838)
Acartia (Acanthacartia) bifilosa (Giesbrecht, 1881)
Acartia (Acanthacartia) tonsa Dana, 1849
Acartia (Acartiura) clausi Giesbrecht, 1889
Acartia (Acartiura) discaudata (Giesbrecht, 1881)
Afroplectastacus remanei (Noodt, 1964)
Alteutha depressa (Baird, 1837)
Alteutha interrupta (Goodsir, 1845)
Alteutha oblonga (Goodsir, 1845)
Ameira hyalina (Noodt, 1952)
Ameira parvula parvula (Claus, 1866)
Ameira scotti Sars G.O., 1911
Ameiropsis brevicornis Sars G.O., 1907



Amphiascoides debilis (Giesbrecht, 1881)
Amphiascoides subdebilis (Willey, 1935)
Amphiascopsis cinctus (Claus, 1866)
Amphiascus angustipes Gurney, 1927
Amphiascus hirtus Gurney, 1927
Amphiascus paracaudaespinosus Roe, 1958
Amphiascus parvus Sars G.O., 1906
Amphiascus tenuiremis (Brady & Robertson D., 1880)
Amphiascus varians (Norman & Scott T., 1905)
Anomalocera patersoni Templeton, 1837
Apodopsyllus africanus listensis Mielke, 1975
Apodopsyllus littoralis (Nicholls, 1939)
Apodopsyllus spinipes (Nicholls, 1939)
Arenocaris bifida Nicholls, 1935
Arenocaris reducta Huys, 1992
Arenopontia (Arenopontia) nesaie Cottarelli, 1975
Arenosetella germanica germanica Kunz, 1937
Arenosetella tenuissima (Klie, 1929)
Asellopsis hispida Brady & Robertson D., 1873
Asellopsis intermedia (Scott T., 1895)
Bolbotelos longisetosus Huys & Conroy-Dalton, 2006
Boreopontia heipi Willems, 1981
Boreovermis bilobata Huys & Conroy-Dalton, 2006
Bradya (Bradya) typica Boeck, 1873
Bulbamphiascus imus (Brady, 1872)
Calanus helgolandicus (Claus, 1863)
Caligus curtus O. F. Müller, 1785
Candacia armata Boeck, 1872
Canuella perplexa Scott T. & A., 1893
Centropages hamatus (Lilljeborg, 1853)
Centropages typicus Krøyer, 1849
Cletodes limicola Brady, 1872
Cletodes longicaudatus (Boeck, 1872)
Corbulaseta bulligera (Farran, 1913)
Cyclopina littoralis Brady, 1872
Cylindropsyllus laevis Brady, 1880
Cylindropsyllus remanei Kunz, 1949
Dactylopodella flava (Claus, 1866)
Dactylopusia tisboides (Claus, 1863)
Dactylopusia vulgaris vulgaris Sars GO, 1905
Danielssenia typica Boeck, 1872
Diarthrodella secunda secunda Kunz, 1954
Diarthrodes pygmaeus (Scott T. & A., 1895)
Diosaccus tenuicornis (Claus, 1863)
Ectinosoma dentatum Steuer, 1940
Ectinosoma melaniceps Boeck, 1865
Ectinosoma reductum reductum Bozic, 1955
Ectinosoma tenuipes Scott T. & A., 1894
Enhydrosoma gariensis Gurney, 1930



Enhydrosoma propinquum (Brady & Robertson in Brady, 1880)
Eudactylina acuta van Beneden, 1853
Eudactylopus latipes (Scott T., 1893)
Eurytemora affinis (Poppe, 1880)
Eurytemora americana Williams, 1906
Eurytemora hirundoides (Nordquist, 1888)
Eurytemora velox (Lilljeborg, 1853)
Euterpina acutifrons (Dana, 1847)
Evansula incerta (Scott T., 1892)
Evansula pygmaea (Scott T., 1903)
Filexilia brevipes (Kunz, 1954)
Haemobaphes ambiguus Scott T., 1900
Halectinosoma canaliculatum (Por, 1964)
Halectinosoma chrystalli (Scott T., 1894)
Halectinosoma clavatum (Sars G.O., 1920)
Halectinosoma curticorne (Boeck, 1872)
Halectinosoma distinctum (Sars G.O., 1920)
Halectinosoma elongatum (Sars G.O., 1904)
Halectinosoma gothiceps (Giesbrecht, 1881)
Halectinosoma herdmanni (Scott T. & A., 1894)
Halectinosoma sarsi Boeck, 1872
Halectinosoma spinicauda (Wells, 1961)
Harpacticus flexus Brady & Robertson, 1873
Harpacticus gracilis Claus, 1863
Harpacticus littoralis Sars G.O., 1911
Harpacticus obscurus Scott T., 1895
Hastigerella leptoderma (Klie, 1929)
Hastigerella psammae (Noodt, 1955)
Heterolaophonte bisetosa Mielke, 1975
Heterolaophonte minuta (Boeck, 1872)
Heterolaophonte stroemii stroemii (Baird, 1837)
Inermiphonte danversae (Hammond, 1969)
Interleptomesochra eulitoralis (Noodt, 1952)
Isias clavipes Boeck, 1865
Kliopsyllus coelebs (Monard, 1935)
Kliopsyllus constrictus constrictus (Nicholls, 1935)
Kliopsyllus holsaticus holsaticus (Klie, 1929)
Kliopsyllus holsaticus varians (Kunz, 1951)
Kliopsyllus paraholsaticus Mielke, 1975
Kroyeria lineata van Beneden, 1853
Labidocera wollastoni (Lubbock, 1857)
Laophonte barbata Lang, 1935
Laophonte cornuta cornuta Philippi, 1840
Laophonte longicaudata Boeck, 1865
Laophonte parvula Sars G.O., 1908
Laophontopsis lamellifera (Claus, 1863)
Lepeophtheirus pectoralis (Müller, 1776)
Leptastacus laticaudatus Nicholls, 1935
Leptastacus macronyx (Scott T., 1892)



Leptastacus pygmaeus Huys, 1992
Leptastacus uncinatus Cottarelli & Venanzetti, 1989
Leptocaris brevicornis (van Douwe, 1905)
Leptocaris trisetosus (Kunz, 1935)
Leptomesochra confluens Sars G.O., 1911
Leptopontia curvicauda Scott T., 1902
Leptopontia dovpori Huys & Conroy-Dalton, 1996
Leptopontia flandrica Huys & Conroy-Dalton, 1996
Leptopontia punctata Huys & Conroy-Dalton, 1996
Lernaeenicus sprattae (Sowerby, 1806)
Lernaeocera branchialis (Linnaeus, 1767)
Lernaeocera lusci (Bassett-Smith, 1896)
Lernaeocera minuta (Scott T., 1900)
Lichomolgus canui G. O. Sars, 1917
Longipedia minor Scott T. & A., 1893
Mesamphiascus junodi (Monard, 1935)
Metacyclopsina brevisetosa Herbst, 1975
Metamphiascopsis hirsutus hirsutus (Thompson & A Scott, 1903)
Microarthridion littorale (Poppe, 1881)
Micropsammis noodti Mielke, 1975
Microsetella norvegica (Boeck, 1865)
Mytilicola intestinalis Steuer, 1902
Nannopus palustris Brady, 1880
Oithona nana Giesbrecht, 1893
Oithona robusta Giesbrecht, 1891
Paracalanus parvus (Claus, 1863)
Paralaophonte congenera (Sars G.O., 1908)
Paraleptastacus espinulatus Nicholls, 1935
Paraleptastacus holsaticus Kunz, 1937
Paraleptastacus moorei Whybrew, 1986
Paraleptastacus spinicaudus (Scott T. & A., 1895)
Paramesochra helgolandica helgolandica Kunz, 1936
Paramesochra mielkei Huys, 1987
Paramesochra similis Kunz, 1936
Paramphiascella vararensis (Scott T., 1903)
Paramphiascopsis longirostris (Claus, 1863)
Parapontella brevicornis (Lubbock, 1857)
Parategastes sphaericus (Claus, 1863)
Parathalestris harpactoides (Claus, 1863)
Parathalestris intermedia Gurney, 1930
Paronychocamptus curticaudatus (Boeck, 1865)
Phyllopodopsyllus bradyi (Scott T., 1892)
Porcellidium viride (Philippi, 1840)
Proameira echinipes Soyer, 1975
Proameira hiddensoensis (Schäfer, 1936)
Proameira psammophila Wells, 1963
Protopsammotopa norvegica Geddes, 1968
Psammotopa phyllosetosa (Noodt, 1952)
Pseudobradya beduina beduina Monard, 1935



Pseudobradia minor (Scott T. & A., 1894)
Pseudobradia similis (Scott T. & A., 1894)
Pseudocalanus elongatus (Boeck, 1865)
Pseudocalanus minutus (Krøyer, 1845)
Pseudocharopinus malleus (Rudolphi in von Nordmann, 1832)
Pseudolaophonte spinosa (Thompson I.C., 1893)
Pseudonychocamptus koreni (Boeck, 1872)
Psyllocamptus (Psyllocamptus) minutus minutus Sars, 1911
Psyllocamptus minutus gelatinosus (Kunz, 1951)
Pteropsyllus consimilis (Scott T., 1894)
Pteropsyllus plebeius furcatus Kunz, 1938
Remanea arenicola Klie, 1929
Rhizothrix curvata Brady & Robertson D., 1875
Rhizothrix minuta (Scott T., 1903)
Robertgurneya ilievecensis (Monard, 1935)
Sarsameira exilis (Scott T. & A., 1894)
Sarsameira peresi Bodin, 1970
Schizopera (Neoschizopera) pratensis Noodt, 1958
Scottopsyllus (Intermedopsyllus) intermedius (T & A Scott, 1895)
Scottopsyllus (Scottopsyllus) minor (T & A Scott, 1895)
Scutellidium australe (Scott T., 1912)
Sicameira leptoderma Klie, 1950
Stenhelia (Delavalia) normani normani (T Scott, 1905)
Syrticola flandricus Willems & Claeys, 1982
Tachidius (Tachidius) discipes Giesbrecht, 1881
Temora longicornis (Müller O.F., 1785)
Thompsonula hyaenae (Thompson I.C., 1889)
Tisbe battagliai Volkmann-Rocco, 1972
Tisbe furcata furcata (Baird, 1837)
Tisbe holothuriae Humes, 1957
Tripaphylus musteli (van Beneden, 1851)
Vermicaris minuta (Nicholls, 1935)
Vermicaris pontica (Chappuis & Serban, 1953)

CIRRIPIEDIA - CIRRIPEDS

Taxonomic validation:

- Benny K.K. Chan (Academia Sinica, Biodiversity Research Centre, Taiwan)

Geographic validation:

- Francis Kerckhof (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)

Number of species: 27

Permanent: 15, of which 5 are non-indigenous (*)

Acasta spongites (Poli, 1795)

Amphibalanus reticulatus (Utinomi, 1967)



Balanus amphitrite Darwin, 1854 (*)
Balanus crenatus Bruguière, 1789
Balanus improvisus Darwin, 1854 (*)
Balanus perforatus Bruguière, 1789
Elminius modestus Darwin, 1854 (*)
Lepas anatifera Linnaeus, 1758
Megabalanus coccopoma (Darwin, 1854) (*)
Megabalanus tintinnabulum (Linnaeus, 1758) (*)
Peltogaster paguri Rathke, 1842
Sacculina carcini Thompson, 1836
Semibalanus balanoides (Linnaeus, 1758)
Trypetesa lampas (Hancock, 1849)
Verruca stroemia O.F. Müller, 1776

Vagrant: 10

Cetopirus complanatus (Mörch, 1852)
Conchoderma auritum (Linnaeus, 1758)
Coronula diadema (Linnaeus, 1767)
Dosima fascicularis Ellis & Solander, 1786
Lepas anserifera Linnaeus, 1767
Lepas hilli Leach, 1818
Lepas pectinata Spengler, 1793
Scalpellum scalpellum (Linnaeus, 1767)
Solidobalanus fallax (Broch, 1927)
Stomatolepas elegans (Costas, 1883)

Exotic, no permanent population: 2

Amphibalanus variegatus Darwin, 1854
Balanus trigonus Darwin, 1854

NEBALIACEA

Taxonomic validation:

- Dr. Jan Mees (Flanders Marine Institute – VLIZ, Belgium)

Geographic validation:

- Dr. Jan Mees (Flanders Marine Institute – VLIZ, Belgium)

Number of species: 1

Nebalia bipes (Fabricius, 1780)



EUPHAUSIACEA - KRILL

Taxonomic validation

- Dr. Volker Siegler (Federal Research Centre for Fisheries, Institute for Sea Fisheries – ISH, Germany)

Geographic validation:

Species list based on available literature and data for the Belgian part of the North Sea

Number of species: 1

Nyctiphanes couchii (Bell, 1853)

DECAPODA - DECAPODS

Taxonomic validation:

- Peter Davie (Queensland Museum, Centre for Biodiversity, Australia)
- Dr. Charles Fransen (National Museum of Natural History – Naturalis, The Netherlands)
- Dr. Michael Türkay (Senckenbergische naturforschende Gesellschaft, Germany)
- Prof. Peter Ng Kee Lin (University of Singapore, Singapore)

Geographic validation:

- Dr. Cédric d'Udekem d'Acoz (Royal Belgian Institute of Natural Sciences – KBIN, Belgium)

Number of species: 72, of which 6 are non-indigenous

Alpheus glaber (Olivi, 1792)
Anapagurus hyndmanni (Bell, 1845)
Anapagurus laevis (Bell, 1845)
Atelecyclus rotundatus (Olivi, 1792)
Callinectes sapidus Rathbun, 1896 (*)
Cancer pagurus Linnaeus, 1758
Carcinus maenas (Linnaeus, 1758)
Corystes cassivelaunus (Pennant, 1777)
Crangon allmanni Kinahan, 1857
Crangon crangon (Linnaeus, 1758)
Diogenes pugilator (Roux, 1829)
Dromia personata (Linnaeus, 1758)
Ebalia cranchii Leach, 1817
Ebalia tuberosa (Pennant, 1777)
Ebalia tumefacta (Montagu, 1808)
Eriocheir sinensis H. Milne Edwards, 1853 (*)
Eualus cranchii (Leach, 1817)
Eualus occultus (Lebour, 1936)
Eualus pusiolus (Krøyer, 1841)
Eurynome aspera (Pennant, 1777)
Galathea intermedia Liljeborg, 1851
Galathea squamifera Leach, 1814
Hemigrapsus sanguineus (De Haan, 1835) (*)



Hemigrapsus takanoi Asakura & Watanabe, 2005 (*)
Hippolyte varians Leach, 1814
Homarus gammarus (Linnaeus, 1758)
Hyas araneus (Linnaeus, 1758)
Hyas coarctatus Leach, 1816
Inachus dorsettensis (Pennant, 1777)
Inachus phalangium (Fabricius, 1775)
Liocarcinus depurator (Linnaeus, 1758)
Liocarcinus holsatus (Fabricius, 1798)
Liocarcinus marmoreus (Leach, 1814)
Liocarcinus navigator (Herbst, 1794)
Liocarcinus pusillus (Leach, 1816)
Liocarcinus vernalis (Risso, 1816)
Macropodia deflexa Forest, 1978
Macropodia linaresi Forest & Zariquiey Alvarez, 1964
Macropodia rostrata (Linnaeus, 1761)
Macropodia tenuirostris (Leach, 1814)
Maja brachydactyla Balss, 1922
Necora puber (Linnaeus, 1767)
Pagurus bernhardus (Linnaeus, 1758)
Pagurus cuanensis Bell, 1845
Pagurus prideaux Leach, 1815
Pagurus pubescens Krøyer, 1838
Palaemon adspersus Rathke, 1837
Palaemon elegans Rathke, 1837
Palaemon longirostris H. Milne-Edwards, 1837
Palaemon macrodactylus Rathbun, 1902 (*)
Palaemon serratus (Pennant, 1777)
Palaemonetes varians (Leach, 1814)
Pandalina brevirostris (Rathke, 1843)
Pandalus montagui Leach, 1814
Pestarella tyrrhena (Petagna, 1792)
Philocheras sculptus (Bell, 1853)
Philocheras trispinosus (Hailstone, 1835)
Pilumnus hirtellus (Linnaeus, 1761)
Pinnotheres pisum (Linnaeus, 1767)
Pisa armata (Latreille, 1803)
Pisidia longicornis (Linnaeus, 1767)
Planes minutus (Linnaeus, 1758)
Porcellana platycheles (Pennant, 1777)
Portumnus latipes (Pennant, 1777)
Processa canaliculata Leach, 1896
Processa edulis crassipes (Nouvel & Holthuis, 1957)
Processa modica modica Williamson & Rochanaburanon, 1979
Processa nouveli holthuisi Al-Adhub & Williamson, 1975
Rhithropanopeus harrisii (Gould, 1841) (*)
Thia scutellata (Fabricius, 1793)
Upogebia deltaura (Leach, 1815)
Upogebia stellata (Montagu, 1808)



CUMACEA - HOODED SHRIMPS

Taxonomic validation:

- Prof. Les Watling (University of Maine, USA)
- Dr. Sarah Gerken (University of Alaska Anchorage, USA)

Geographic validation:

- Dr. Jan Mees (Flanders Marine Institute – VLIZ, Belgium)

Number of species: 13

Bodotria arenosa Goodsir, 1843
Bodotria pulchella (Sars, 1878)
Bodotria scorpioides (Montagu, 1804)
Cumopsis goodsir (Van Beneden, 1861)
Diastylis bradyi Norman, 1879
Diastylis laevis Norman, 1869
Diastylis lucifera (Krøyer, 1837)
Diastylis rathkei (Krøyer, 1841)
Diastylis rugosa Sars, 1865
Iphinoe trispinosa (Goodsir, 1843)
Monopseudocuma gilsoni (Gilson, 1906)
Pseudocuma (Pseudocuma) longicorne (Bate, 1858)
Pseudocuma (Pseudocuma) simile G.O. Sars, 1900

AMPHIPODA - AMPHIPODS

Taxonomic validation:

- Prof. Dr. Mark Costello (University of Auckland, Leigh Marine Laboratory, New Zealand)
- Dr. Jim Lowry (Australian Museum, Marine Invertebrates, Australia)

Geographic validation:

- Dr. Jan Mees (Flanders Marine Institute – VLIZ, Belgium)
- Dr. Annelies De Backer (Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit -ILVO, Belgium)
- ILVO macrofauna data: macrofauna monitoring on the Belgian Part of the North Sea since 1979. Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit (ILVO, Belgium)

Number of species: 71

Abludomelita obtusata (Montagu, 1813)
Ampelisca brevicornis (Costa, 1853)
Ampelisca spinipes Boeck, 1861
Amphilochus manudens Bate, 1862
Amphilochus neapolitanus Della Valle, 1893
Aora gracilis (Bate, 1857)
Apherusa bispinosa (Bate, 1857)



Apherusa ovalipes Norman & Scott, 1906
Atylus guttatus (Costa, 1851)
Atylus swammerdami (Milne-Edwards, 1830)
Bathyporeia elegans Watkin, 1938
Bathyporeia guilliamsoniana (Bate, 1857)
Bathyporeia pelagica (Bate, 1856)
Bathyporeia pilosa Lindström, 1855
Bathyporeia sarsi Watkin, 1938
Calliopius laeviusculus (Kroyer, 1838)
Caprella andreae Mayer, 1890
Caprella linearis (Linnaeus, 1767)
Ceradocus semiserratus (Bate, 1862)
Cheirocratus intermedius G.O. Sars, 1895
Cheirocratus sundevalli (Rathke, 1843)
Corophium arenarium Crawford, 1937
Corophium volutator (Pallas, 1766)
Crassikorophium bonellii (Milne Edwards, 1830)
Erichthonius punctatus (Bate, 1857)
Gammarellus angulosus (Rathke, 1843)
Gammarus crinicornis Stock, 1966
Gammarus insensibilis Stock, 1966
Gammarus locusta (Linnaeus, 1758)
Gammarus salinus Spooner, 1947
Gammarus zaddachi Sexton, 1912
Haustorius arenarius (Slabber, 1767)
Hyale prevosti (Milne-Edwards 1830)
Hyperia galba (Montagu, 1815)
Iphimedia minuta G.O. Sars, 1882
Jassa falcata (Montagu, 1808)
Jassa marmorata Holmes, 1905
Lepidepcreum longicornis (Bate & Westwood, 1862)
Leucothoe incisa Robertson, 1892
Leucothoe lilljeborgi Boeck, 1861
Maerella tenuimana (Bate, 1862)
Megaluropus agilis Hoeck, 1889
Melita dentata (Kroyer, 1842)
Melita hergensis Reid, 1939
Melita palmata (Montagu, 1804)
Melphidippella macra (Norman, 1869)
Metopa pusilla Sars, 1892
Microprotopus maculatus Norman, 1867
Monocorophium ascherusicum (Costa, 1857)
Monocorophium insidiosum (Crawford, 1937)
Monocorophium sextonae (Crawford, 1937)
Monoculodes carinatus (Bate, 1857)
Nototropis falcatus (Metzer, 1871)
Orchomenella nana (Kroyer, 1846)
Pariambus typicus (Krøyer, 1884)
Periiculodes longimanus (Bate & Westwood, 1868)



Phtisica marina Slabber, 1769
Pontocrates altamarinus (Bate & Westwood, 1862)
Pontocrates arenarius (Bate, 1858)
Pseudoprotella phasma Montagu, 1804
Scopelocheirus hopei (Costa, 1851)
Siphonoeetes (Centraloecetes) kroyeranus Bate, 1856
Stenothoe marina (Bate, 1856)
Synchelidium haplocheles (Grube, 1864)
Synchelidium maculatum Stebbing, 1906
Talitrus saltator (Montagu, 1808)
Unciola planipes Norman, 1867
Urothoe brevicornis Bate, 1862
Urothoe elegans (Bate, 1857)
Urothoe marina (Bate, 1857)
Urothoe poseidonis Reibish, 1905

ISOPODA - PILLBUGS, SLATERS AND WOODLICE

Taxonomic validation:

- Chris Boyko (American Museum of Natural History, USA)
- Marilyn Schotte (Smithsonian Institution, National Museum of Natural History, USA)
- Dr. Niel Bruce (Museum of tropical Queensland, Australia)
- Gary Poore (Museum Victoria, Australia)
- John Markham (Arch Cape Marine Laboratory, USA)

Geographic validation:

- Dr. Jan Mees (Flanders Marine Institute – VLIZ, Belgium)

Number of species: 33

Anthura gracilis (Montagu, 1808)
Astacilla longicornis (Sowerby, 1806)
Athelges paguri (Rathke, 1843)
Ceratothoa oestroides (Risso, 1816)
Eurydice affinis Hansen, 1905
Eurydice pulchra Leach, 1815
Eurydice spinigera Hansen, 1890
Gnathia oxyuraea (Lilljeborg, 1855)
Hemiarthrus abdominalis (Krøyer, 1840-1841)
Idotea balthica (Pallas, 1772)
Idotea chelipes (Pallas, 1766)
Idotea emarginata (Fabricius, 1793)
Idotea granulosa Rathke, 1843
Idotea linearis (Linnaeus, 1766)
Idotea metallica Bosc, 1802
Idotea neglecta Sars, 1897
Idotea pelagica Leach, 1815
Ione thoracica (Montagu, 1808)



Jaera (Jaera) albifrons Leach, 1814
Jaera (Jaera) praehirsuta Forsman, 1949
Janira maculosa Leach, 1814
Lekanesphaera hookeri (Leach, 1814)
Lekanesphaera levii (Argano & Ponticelli, 1981)
Lekanesphaera rugicauda (Leach, 1814)
Ligia oceanica (Linnaeus, 1767)
Limnoria lignorum (Rathke, 1799)
Munna minuta Hansen, 1916
Nerocila orbignyi (Guérin-Méneville, 1832)
Paragnathia formica (Hesse, 1864)
Pleurocrypta porcellanae Hesse, 1876
Prodajus ostendensis Gilson, 1909
Pseudione hyndmanni (Bate & Westwood, 1868)
Rocinela danmoniensis Leach, 1818

MYSIDA - OPOSSUM SHRIMPS

Taxonomic validation:

- Dr. Jan Mees (Flanders Marine Institute – VLIZ, Belgium)

Geographic validation:

- Dr. Jan Mees (Flanders Marine Institute – VLIZ, Belgium)

Number of species: 18

Acanthomysis longicornis (Milne-Edwards, 1837)
Anchialina agilis (G.O. Sars, 1877)
Gastrosaccus sanctus (van Beneden, 1861)
Gastrosaccus spinifer (Goës, 1864)
Leptomysis lingvura (G. O. Sars, 1866)
Mesopodopsis slabberi (van Beneden, 1861)
Mysidopsis gibbosa G.O. Sars, 1864
Neomysis integer (Leach, 1814)
Paramysis (Pseudoparamysis) bacescoi Labat, 1953
Paramysis arenosa (G.O. Sars, 1877)
Praunus flexuosus (Müller, 1776)
Praunus inermis (Rathke, 1843)
Schistomysis kervillei (G.O. Sars, 1885)
Schistomysis ornata (G.O. Sars, 1864)
Schistomysis spiritus (Norman, 1860)
Siriella armata (Milne-Edwards, 1837)
Siriella clausi G.O. Sars, 1877
Siriella jaltensis Czerniavsky, 1868



TANAIDACEA - TANAIDS

Taxonomic validation:

- Dr. Graham Bird (UK)

Geographic validation:

- ILVO macrofauna data: macrofauna monitoring on the Belgian part of the North Sea since 1979. Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit (ILVO)
- Francis Kerckhof (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)

Number of species: 3

Pseudoparatanaïs batei (G.O. Sars, 1882)

Tanaïs dulongii (Audouin, 1826)

Tanaissus lilljeborgi (Stebbing, 1891)

MYRIAPODA - MYRIAPODS

Taxonomic validation:

- Anthony Barber (British Myriapod & Isopod Group – BMIG, UK)

Geographic validation:

- Dr. Koen Lock (Ghent University, Department of applied ecology and environmental biology, Environmental Toxicology Research Group – ECOTOX, Belgium)
- Anthony Barber (British Myriapod & Isopod Group – BMIG, UK)

Number of species: 1

Strigamia maritima (Leach, 1817)

INSECTA - INSECTS

Taxonomic validation:

- Prof. Dr. Patrick Grootaert (Royal Belgian Institute of Natural Sciences, Department of Entomology – KBIN, Belgium)

Geographic validation:

- Patrick Grootaert & Marc Pollet (2004). Vliegen als onontbeerlijke elementen in de ecologie van strand en duinen. In: Provoost, S. & D. Bonte (Eds.) (2004). *Levende duinen: een overzicht van de biodiversiteit aan de Vlaamse kust. Mededelingen van het Instituut voor Natuurbeschoud*, 22: pp. 208-219.

All insects (adults, larvae or juveniles) occurring in the eulittoral zone, in the tidemark or in washed ashore organic material are listed below. This information is based on recent literature, compiled by



Belgian experts in the field of entomology. Insects living higher up on the beach and in the dunes are not included here.

Number of species: 27

Aphrosylus celtiber Haliday, 1855
Aphrosylus ferox Haliday, 1851
Canace nasica (Haliday, 1839)
Ceratinostoma ostiorum (Haliday, in Curtis, 1832)
Chersodromia arenaria Haliday, 1833
Chersodromia hirta Walker, 1835
Chersodromia incana Walker, 1851
Chersodromia speculifera Walker, 1851
Coelopa (Coelopa) pilipes Haliday, 1838
Coelopa (Fucomyia) frigida (Fabricius, 1805)
Fucellia maritima (Haliday, 1838)
Fucellia tergina (Zetterstedt, 1845)
Glenanthe ripicola (Haliday, 1839)
Hecamede albicans (Meigen, 1830)
Helcomyza ustulata Curtis, 1825
Heterocheila buccata (Fallén, 1820)
Malacomyia sciomyzina (Haliday, 1833)
Orygma luctuosum Meigen, 1830
Pelomyiella cinerella (Haliday, 1837)
Pelomyiella mallochi (Sturtevant, 1923)
Rhinoessa grisea (Fallén, 1823)
Rhinoessa strobliana Mercier, 1923
Scatella subguttata (Meigen, 1830)
Scathophaga litorea (Fallén, 1819)
Tethina albosetulosa (Strobl, 1900)
Tethina illota Haliday, 1838
Thoracochaeta zosterae (Haliday, 1833)

CHAETOGNATHA - ARROW WORMS

Taxonomic validation:

- Dr. Erik Thuesen (The Evergreen State College, Laboratory One, USA)

Geographic validation:

- ILVO macrofauna data: macrofauna monitoring on the Belgian Part of the North Sea since 1979. Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit (ILVO, Belgium)

Number of species: 1

Parasagitta setosa (Müller, 1847)



ECHINODERMATA - ECHINODERMS

Taxonomic validation:

- Dr. Hans Hansson (Göteborg University, Sven Lovén Centre for Marine Sciences, Sweden)
- Dr. Andreas Kroh (Natural History Museum Vienna, Austria)
- Dr. Christopher Mah (Smithsonian Institution, National Museum of Natural History, USA)
- Sabine Stöhr (Museum of Natural History, Sweden)

Geographic validation:

- Dr. Claude Massin (Royal Belgian Institute of Natural Sciences – KBIN, Belgium)

Number of species: 27

Acrocnida brachiata (Montagu, 1804)
Amphipholis squamata (Delle Chiaje, 1828)
Amphiura chiajei Forbes, 1843
Amphiura filiformis (O.F. Müller, 1776)
Aslia lefevrei (Barrois, 1882)
Asterias amurensis Lutken, 1871
Asterias rubens Linnaeus, 1758
Astropecten irregularis (Pennant, 1777)
Astropecten jonstoni (Delle Chiaje, 1827)
Crossaster papposus (Linnaeus, 1776)
Cucumaria frondosa (Gunnerus, 1767)
Echinocardium cordatum (Pennant, 1777)
Echinocyamus pusillus (O.F. Müller, 1776)
Echinus esculentus Linnaeus, 1758
Leptosynapta minuta (Becher, 1906)
Neopentadactyla mixta (Östergren, 1898) Deichmann, 1944
Ocnus lacteus (Forbes & Goodsir, 1839)
Ocnus planci (Brandt, 1835)
Ophiocten affinis (Lütken, 1858)
Ophiothrix fragilis (Abildgaard, 1789)
Ophiura albida Forbes, 1839
Ophiura ophiura (Linnaeus, 1758)
Ophiura robusta (Ayres, 1851)
Psammechinus miliaris (P.L.S. Müller, 1771)
Pseudarchaster gracilis (Sladen, 1889)
Spatangus purpureus (O.F. Müller, 1776)
Thyone fusus (O.F. Müller, 1776)



BRYOZOA - MOSS ANIMALS, SEA MATS

Taxonomic validation:

- Dr. Phil Bock (Museum Victoria, Australia)
- Dr. Dennis Gordon (National Institute of Water and Atmospheric Research, New Zealand)
- Dr. Peter Hayward (University of Wales Swansea, UK)
- Dr. Oscar Reverter Gil (University of Santiago de Compostela, Spain)
- Hans de Blauwe (Strandwerkgroep – SWG, Belgium)

Geographic validation:

- Hans De Blauwe (Strandwerkgroep – SWG, Belgium)

Number of species: 150 + 6 species probably extinct in Belgian marine waters

Permanent: 92, of which 3 are non-indigenous (*)

Alcyonidioides mytili (Dalyell, 1848)
Alcyonidium condylocinereum Porter, 2004
Alcyonidium diaphanum (Hudson, 1778)
Alcyonidium hydrocoalitum Porter, 2004
Alcyonidium parasiticum (Fleming, 1828)
Ammatophora nodulosa (Hincks, 1877)
Amphiblestrum auritum (Hincks, 1877)
Anguinella palmata van Beneden, 1845
Annectocyma major (Johnston, 1847)
Arachnidium fibrosum Hincks, 1880
Aspidelectra melolontha (Landsborough, 1852)
Bicellariella ciliata (Linnaeus, 1758)
Bowerbankia gracilis Leidy, 1855
Bowerbankia imbricata (Adams, 1798)
Bugula angustiloba (Lamarck, 1816)
Bugula neritina (Linnaeus, 1758)
Bugula plumosa (Pallas, 1766)
Bugula simplex Hincks, 1886 (*)
Bugula stolonifera Ryland, 1960 (*)
Callopora discreta (Hincks, 1862)
Callopora dumerilii (Audouin, 1826)
Celleporina pygmaea (Norman, 1868)
Chorizopora brongniartii (Audouin, 1826)
Collarina balzaci (Audouin, 1826)
Conopeum reticulum (Linnaeus, 1767)
Conopeum seurati (Canu, 1928)
Crassimarginatella solidula (Hincks, 1860)
Cribrilina punctata (Hassall, 1841)
Crisia aculeata Hassall, 1841
Cryptosula pallasiana (Moll, 1803)
Disporella hispida (Fleming, 1828)
Distansescharella seguenzai Cipolla, 1921
Einhornia crustulenta (Pallas, 1766)
Electra monostachys (Busk, 1854)



Electra pilosa (Linnaeus, 1767)
Entalophoroecia deflexa (Couch, 1842)
Escharella gilsoni De Blauwe, 2006
Escharella immersa (Fleming, 1828)
Escharella variolosa (Johnston, 1838)
Escharella ventricosa (Hassall, 1842)
Escharina dutertrei haywardi Zabala, Maluquer & Harmelin, 1993
Escharina johnstoni (Quelch, 1884)
Escharina vulgaris (Moll, 1803)
Escharoides bishopi De Blauwe, 2006
Farrella repens (Farre, 1837)
Fenestrulina malusii (Audouin, 1826)
Flustra foliacea (Linnaeus, 1758)
Hagiosynodos latus (Busk, 1856)
Herentia hyndmanni (Johnston, 1847)
Hincksina flustroides crassispinata Gautier, 1962
Hippoporina pertusa (Esper, 1796)
Hippothoa divaricata Lamouroux, 1821
Hippothoa flagellum Manzoni, 1870
Hypophorella expansa Ehlers, 1876
Immergentia suecica Silén, 1947
Lagenipora lepralioides (Norman, 1868)
Liripora amphorae (Harmelin, 1976)
Membranipora tenuis Desor, 1848
Microporella ciliata (Pallas, 1766)
Neolagenipora collaris (Norman, 1867)
Panolicella nutans Jebram, 1985
Parasmittina trispinosa (Johnston, 1838)
Penetrantia concharum Silén, 1946
Phylactella labrosa (Busk, 1854)
Plagioecia patina (Lamarck, 1816)
Porella concinna (Busk, 1854)
Puellina arrecta Bishop & Househam, 1987
Puellina bifida (d'Hondt, 1970)
Puellina corbula Bishop & Househam, 1987
Puellina directa Bishop & Househam, 1987
Puellina innominata (Couch, 1844)
Puellina modica Bishop & Househam, 1987
Puellina nana Reverter Gil & Fernandez Pulpeiro, 2007
Puellina praecox Bishop & Househam, 1987
Reptadeonella violacea (Johnston, 1847)
Schizomavella auriculata (Hassall, 1842)
Schizomavella cristata (Hincks, 1879)
Schizomavella discoidea (Busk, 1859)
Schizomavella linearis (Hassall, 1841)
Schizomavella teresae Reverter-Gil & Fernandez-Pulpeiro, 1996
Schizotheca divisa (Norman, 1864)
Schizotheca fissa (Busk, 1856)
Scruparia chelata (Linnaeus, 1758)



Scrupocellaria scruposa (Linnaeus, 1758)
Setosella vulnerata (Busk, 1860)
Smittina affinis (Hincks, 1862)
Stomatopora incurvata (Hincks, 1859)
Tricellaria inopinata d'Hondt & Occhipinti Ambrogi, 1985 (*)
Trypostega venusta (Norman, 1864)
Tubulipora lobifera Hastings, 1963
Vesicularia spinosa (Linnaeus, 1767)
Victorella pavidia Saville Kent, 1870

Vagrant: 58

Aetea anguina (Linnaeus, 1758)
Aetea sica (Couch, 1844)
Aetea truncata (Landsborough, 1852)
Amathia lendigera (Linnaeus, 1758)
Amphiblestrum flemingii (Busk, 1854)
Beania mirabilis Johnston, 1840
Bugula fulva Ryland, 1960
Caberea boryi (Audouin, 1826)
Callopora lineata (Linnaeus, 1767)
Callopora rylandi Bobin & Prenant, 1965
Cauloramphus spiniferum (Johnston, 1832)
Cellaria salicornioides Lamouroux, 1816
Cellaria sinuosa (Hassall, 1840)
Cellepora pumicosa (Pallas, 1766)
Celleporella hyalina (Linnaeus, 1767)
Celleporina caliciformis (Lamouroux, 1816)
Celleporina decipiens Hayward, 1976
Chartella papyracea (Ellis & Solander, 1786)
Crisia denticulata (Lamarck, 1816)
Crisia eburnea (Linnaeus, 1758)
Crisidia cornuta (Linnaeus, 1758)
Diplosolen obelia (Johnston, 1838)
Escharella labiosa (Busk, 1856)
Escharoides coccinea (Abildgaard, 1806)
Escharoides mamillata (Wood, 1844)
Eurystrotos compacta (Norman, 1866)
Fenestrulina delicia Winston, Hayward & Craig, 2000
Figularia figularis (Johnston, 1847)
Filicrisia geniculata (Milne Edwards, 1838)
Flustrellidra hispida (O. Fabricius, 1780)
Haplopoma graniferum (Johnston, 1847)
Haplopoma impressum (Audouin, 1826)
Jellyella tuberculata (Bosc, 1802)
Membranipora membranacea (Linnaeus, 1767)
Membraniporella nitida (Johnston, 1838)
Omalosecosa ramulosa (Linnaeus, 1767)
Oshurkovia littoralis (Hastings, 1944)
Parellisina curvirostris (Hincks, 1862)



Pentapora fascialis (Pallas, 1766)
Phaeostachys spinifera (Johnston, 1847)
Plagioecia sarniensis (Norman, 1864)
Plesiothoa gigerium (Ryland & Gordon, 1977)
Porella minuta (Norman, 1868)
Pyripora catenularia (Fleming, 1828)
Rhynchozoon bispinosum (Johnston, 1847)
Schizomavella cornuta (Heller, 1867)
Schizomavella hastata (Hincks, 1862)
Schizoporella unicornis (Johnston, in Wood, 1844)
Scruparia ambigua (d'Orbigny, 1841)
Scrupocellaria reptans (Linnaeus, 1767)
Scrupocellaria scrupea Busk, 1852
Smittina landsborovii (Johnston, 1847)
Smittoidea reticulata (MacGillivray, 1842)
Tubulipora liliacea (Pallas, 1766)
Turbicellepora avicularis (Hincks, 1860)
Turbicellepora magnicostata (Barroso, 1919)
Walkeria uva (Linnaeus, 1758)
Watersipora complanata (Norman, 1864)

Probably extinct in Belgian marine waters: 6

Bugula avicularia (Linnaeus, 1758)
Bugula turbinata Alder, 1857
Cellaria fistulosa (Linnaeus, 1758)
Eucratea loricata (Linnaeus, 1758)
Hippoporidra lusitania Taylor & Cook, 1981
Securiflustra securifrons (Pallas, 1766)

TUNICATA - SEA SQUIRTS

Taxonomic validation:

- Dr. Arjan Gittenberger (National Museum of Natural History – Naturalis, the Netherlands)
- Claude Monniot (National Natural History Museum Paris, France)
- Rosana Moreira da Rocha (Universidade Federal do Paraná, Brasil)

Geographic validation:

- Hans De Blauwe (Strandwerkgroep – SWG, Belgium)
- Dr. Arjan Gittenberger (National Museum of Natural History – Naturalis, The Netherlands)

Number of species: 11, of which 5 are non-indigenous (*)

Aplidium glabrum (Verrill, 1871) (*)
Asciidiella aspersa (Müller, 1776)
Asciidiella scabra (Müller, 1776)
Botrylloides violaceus Oka, 1927 (*)
Botryllus schlosseri (Pallas, 1766)
Ciona intestinalis (Linnaeus, 1758)



Clavelina lepadiformis (Müller, 1776)
Didemnum vexillum Kott, 2002
Diplosoma listerianum (Milne-Edwards, 1841) (*)
Molgula manhattensis (De Kay, 1843) (*)
Styela clava (Herdman, 1881) (*)

ENTOPROCTA - GOBLET WORMS

Taxonomic validation:

- Dr. Peter Hayward (University of Wales Swansea, Biological Sciences, UK)

Geographic validation:

- Francis Kerckhof (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)

Number of species: 1

Barentsia gracilis M. Sars, 1835

PHORONIDA - HORSESHOE WORMS

Taxonomic validation:

- Dr. Christian Emig (BrachNet, France)

Geographic validation:

- ILVO macrofauna data: macrofauna monitoring on the Belgian Part of the North Sea since 1979. Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit (ILVO, Belgium)

Number of species: 1

Phoronis pallida Silén, 1952

BRACHIOPODA - LAMP SHELLS

Number of species: 1

The occurrence of one species of Brachiopoda in the Belgian part of the North Sea has been confirmed by Francis Kerckhof. The species name has not yet been made publicly available, as a publication on its occurrence in our regions is currently under preparation.



CEPHALOCHORDATA - LANCELETS

Taxonomic validation:

- Dr. Jacob van der Land (National Museum of Natural History – Naturalis, the Netherlands)

Geographic validation:

- Dr. Jan Mees (Flanders Marine Institute – VLIZ, Belgium)

Number of species: 1

Branchiostoma lanceolatum (Pallas, 1774)

AGNATHA - JAWLESS FISH

Taxonomic validation:

- Dr. Nicolas Bailly (Worldfish Center, Philippines)
- Dr. Jacob van der Land (National Museum of Natural History – Naturalis, the Netherlands)

Geographic validation:

- Hans Hillewaert (Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit -ILVO, Belgium)
- Dr. André Cattijse (Flanders Marine Institute – VLIZ, Belgium)

Number of species: 2

Lampetra fluviatilis (Linnaeus, 1758)

Petromyzon marinus Linnaeus, 1758

PISCES - FISH

Taxonomic validation:

- Dr. Nicolas Bailly (Worldfish Center, Philippines)
- Dr. Jacob van der Land (National Museum of Natural History – Naturalis, the Netherlands)

Geographic validation:

- Hans Hillewaert (Flemish Government, Agriculture and Fisheries, Institute for Agriculture and Fisheries Research, Animal Knowledge Unit -ILVO, Belgium)
- Dr. André Cattijse (Flanders Marine Institute – VLIZ, Belgium)

Number of species: 121 + 6 (probably) extinct in Belgian marine waters

Permanent: 103, of which 1 non-indigenous (*)

Agonus cataphractus (Linnaeus, 1758)

Alopias vulpinus (Bonnaterre, 1788)

Alosa fallax (Lacepède, 1803)

Amblyraja radiata (Donovan, 1808)

Ammodytes marinus Raitt, 1934



Ammodytes tobianus Linnaeus, 1758
Anguilla anguilla (Linnaeus, 1758)
Aphia minuta (Risso, 1810)
Arnoglossus laterna (Walbaum, 1792)
Aspitrigla cuculus (Linnaeus, 1758)
Atherina (*Hepsetia*) *presbyter* Cuvier, 1829
Belone belone (Linnaeus, 1761)
Buglossidium luteum (Risso, 1810)
Callionymus lyra Linnaeus, 1758
Callionymus reticulatus Valenciennes, 1837
Chelidonichthys lucernus (Linnaeus, 1758)
Chelon labrosus (Risso, 1827)
Ciliata mustela (Linnaeus, 1758)
Ciliata septentrionalis (Collett, 1875)
Clupea harengus Linnaeus, 1758
Conger conger (Linnaeus, 1758)
Crystallogobius linearis (Düben, 1845)
Ctenolabrus rupestris (Linnaeus, 1758)
Cyclopterus lumpus Linnaeus, 1758
Dasyatis pastinaca (Linnaeus, 1758)
Dicentrarchus labrax (Linnaeus, 1758)
Echiichthys vipera (Cuvier, 1829)
Enchelyopus cimbrius (Linnaeus, 1766)
Engraulis encrasicolus (Linnaeus, 1758)
Entelurus aequoreus (Linnaeus, 1758)
Eutrigla gurnardus (Linnaeus, 1758)
Gadus morhua Linnaeus, 1758
Gaidropsarus vulgaris (Cloquet, 1824)
Galeorhinus galeus (Linnaeus, 1758)
Gasterosteus aculeatus Linnaeus, 1758
Gobius niger Linnaeus, 1758
Gymnammodytes semisquamatus (Jourdain, 1879)
Hippocampus guttulatus Cuvier, 1829
Hippocampus hippocampus (Linnaeus, 1758)
Hyperoplus lanceolatus (Le Sauvage, 1824)
Labrus bergylta Ascanius, 1767
Lamna nasus (Bonnaterre, 1788)
Limanda limanda (Linnaeus, 1758)
Liparis liparis (Linnaeus, 1766)
Liparis montagui (Donovan, 1804)
Lipophrys pholis (Linnaeus, 1758)
Liza aurata (Risso, 1810)
Liza ramada (Risso, 1827)
Lophius piscatorius Linnaeus, 1758
Melanogrammus aeglefinus (Linnaeus, 1758)
Merlangius merlangus (Linnaeus, 1758)
Merluccius merluccius (Linnaeus, 1758)
Micropogonias undulatus (Linnaeus, 1766) (*)
Microstomus kitt (Walbaum, 1792)
Mugil cephalus Linnaeus, 1758
Mullus surmuletus Linnaeus, 1758
Mustelus asterias Cloquet, 1821
Mustelus mustelus (Linnaeus, 1758)
Myoxocephalus scorpius (Linnaeus, 1758)



Nerophis lumbriciformis (Jenyns, 1835)
Osmerus eperlanus (Linnaeus, 1758)
Parablennius gattorugine (Linnaeus, 1758)
Pegusa lascaris (Risso, 1810)
Pholis gunnellus (Linnaeus, 1758)
Platichthys flesus (Linnaeus, 1758)
Pleuronectes platessa Linnaeus, 1758
Pollachius pollachius (Linnaeus, 1758)
Pollachius virens (Linnaeus, 1758)
Pomatoschistus lozanoi (de Buen, 1923)
Pomatoschistus microps (Krøyer, 1838)
Pomatoschistus minutus (Pallas, 1770)
Pomatoschistus pictus (Malm, 1865)
Prionace glauca (Linnaeus, 1758)
Psetta maxima (Linnaeus, 1758)
Pungitius pungitius (Linnaeus, 1758)
Raja brachyura Lafont, 1873
Raja clavata Linnaeus, 1758
Raja montagui Fowler, 1910
Raniceps raninus (Linnaeus, 1758)
Salmo lacustris Linnaeus, 1758
Salmo salar Linnaeus, 1758
Salmo trutta Linnaeus, 1758
Sardina pilchardus (Walbaum, 1792)
Scomber scombrus Linnaeus, 1758
Scomberesox saurus (Walbaum, 1792)
Scophthalmus rhombus (Linnaeus, 1758)
Scyliorhinus canicula (Linnaeus, 1758)
Solea solea (Linnaeus, 1758)
Spondyllosoma cantharus (Linnaeus, 1758)
Sprattus sprattus (Linnaeus, 1758)
Squalus acanthias Linnaeus, 1758
Symphodus (Crenilabrus) melops (Linnaeus, 1758)
Syngnathus acus Linnaeus, 1758
Syngnathus rostellatus Nilsson, 1855
Syngnathus typhle Linnaeus, 1758
Taurulus bubalis (Euphrasen, 1786)
Torpedo (Tetronarce) nobiliana Bonaparte, 1835
Trachinus draco Linnaeus, 1758
Trachurus trachurus (Linnaeus, 1758)
Trisopterus luscus (Linnaeus, 1758)
Trisopterus minutus (Linnaeus, 1758)
Zeus faber Linnaeus, 1758
Zoarces viviparus (Linnaeus, 1758)

Vagrant: 18

Anarhichas lupus Linnaeus, 1758
Argyrosomus regius (Asso, 1801)
Balistes caprisus Gmelin, 1789
Boops boops (Linnaeus, 1758)
Brama brama (Bonnaterre, 1788)
Centrolophus niger (Gmelin, 1789)
Cepola macrophthalma (Linnaeus, 1758)



Diplecogaster bimaculata (Bonnaterre, 1788)
Glyptocephalus cynoglossus (Linnaeus, 1758)
Microchirus (Microchirus) variegatus (Donovan, 1808)
Molva molva (Linnaeus, 1758)
Pagellus erythrinus (Linnaeus, 1758)
Schedophilus ovalis (Cuvier, 1833)
Sciaena umbra Linnaeus, 1758
Scyliorhinus stellaris (Linnaeus, 1758)
Sebastes marinus (Linnaeus, 1758)
Sparus aurata Linnaeus, 1758
Spinachia spinachia (Linnaeus, 1758)

(Probably) extinct in Belgian marine waters: 6

Acipenser sturio Linnaeus, 1758
Alosa alosa (Linnaeus, 1758)
Coregonus lavaretus (Linnaeus, 1758)
Coregonus oxyrinchus (Linnaeus, 1758)
Squatina squatina (Linnaeus, 1758)
Thunnus thynnus (Linnaeus, 1758)

REPTILIA - REPTILES

Taxonomic validation:

- Peter Uetz (J. Craig Venter Institute, USA)

Geographic validation:

- Jan Haelters (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)

Number of species: 2

Permanent: 0

Vagrant: 2

Caretta caretta (Linnaeus, 1758)
Dermochelys coriacea (Vandelli, 1761)



AVES - BIRDS

Geographic validation:

- Dr. Eric Stienen (Research Institute for Nature and Forest – INBO, Belgium)
- Dr. Jan Seys (Flanders Marine Institute – VLIZ, Belgium)

Note:

Birds spotted at sea are numerous, but only a limited number of them can truly be identified with the marine environment for survival. This list only contains those birds which forage at sea, forage in the intertidal area, rest at sea, depend on the sea during migration and are spotted rather rarely in the Belgian part of the North Sea.

Used coding:

- 1 = forages at sea
- 2 = forages in the intertidal zone
- 3 = rests at sea
- 4 = rare guest
- 5 = migrates over sea

Number of species: 75

Actitis hypoleucos (Linnaeus, 1758) (2)
Alca torda Linnaeus, 1758 (1,3,5)
Alle alle (Linnaeus, 1758) (1,3,5)
Arenaria interpres (Linnaeus, 1758) (2)
Aythya marila Linnaeus, 1758 (1)
Branta bernicla Linnaeus, 1758 (2,3,5)
Calidris alba Pallas, 1764 (2)
Calidris alpina Linnaeus, 1758 (2)
Calidris canutus (Linnaeus, 1758) (2)
Calidris ferruginea Pontoppidan, 1763 (2)
Calidris maritima Brunnich, 1764 (2)
Calidris minuta (Leisler, 1812) (2)
Calidris temminckii (Leisler, 1812) (2)
Calonectris diomedea (Scopoli, 1769) (1,4,5)
Catharacta skua Brännich, 1764 (1,5)
Cephus grylle (Linnaeus, 1758) (1,3,4)
Charadrius alexandrinus Linnaeus, 1758 (2)
Charadrius hiaticula Linnaeus, 1758 (2)
Chlidonias niger (Linnaeus, 1758) (1,5)
Chroicocephalus ridibundus (Linnaeus, 1766) (1)
Fratercula arctica (Linnaeus, 1758) (1,3,5)
Fulmarus glacialis (Linnaeus, 1761) (1,3,5)
Gavia arctica (Linnaeus, 1758) (1,3,5)
Gavia immer (Brännich, 1764) (1,3,5)
Gavia stellata (Pontoppidan, 1763) (1,3,5)
Gelochelidon nilotica (Gmelin, 1789) (1,4,5)
Haematopus ostralegus Linnaeus, 1758 (2)
Hydrobates pelagicus (Linnaeus, 1758) (1,5)
Larus argentatus Pontoppidan, 1763 (1,2,3,5)



Larus cachinnans Pallas, 1811 (1,3,5)
Larus canus Linnaeus, 1758 (1,3,5)
Larus delawarensis Ord, 1815 (1,4)
Larus fuscus Linnaeus, 1758 (1,3,5)
Larus hyperboreus Gunnerus, 1767 (1,4)
Larus marinus Linnaeus, 1758 (1,3,5)
Larus melanocephalus Temminck, 1820 (1)
Larus minutus Pallas, 1776 (1)
Larus sabini Sabine, 1819 (1,4)
Limosa lapponica (Linnaeus, 1758) (2)
Melanitta fusca (Linnaeus, 1758) (1,3)
Melanitta nigra (Linnaeus, 1758) (1,3)
Mergus serrator Linnaeus, 1758 (1,4)
Morus bassanus (Linnaeus, 1758) (1,3,5)
Numenius arquata Linnaeus, 1758 (2)
Numenius phaeopus Linnaeus, 1758 (2)
Oceanodroma leucorhoa (Vieillot, 1818) (1,5)
Phalacrocorax aristotelis (Linnaeus, 1761) (1)
Phalacrocorax carbo (Linnaeus, 1758) (1,3)
Phalaropus fulicarius (Linnaeus, 1758) (1)
Phalaropus lobatus (Linnaeus, 1758) (1)
Pluvialis squatarola Linnaeus, 1758 (2)
Podiceps auritus (Linnaeus, 1758) (1,3)
Podiceps cristatus (Linnaeus, 1758) (1,3)
Podiceps grisegena (Boddaert, 1783) (1,3)
Podiceps nigricollis Brehm, 1831 (1,3)
Puffinus gravis (O'Reilly, 1818) (1,4,5)
Puffinus griseus (Gmelin, 1789) (1,4,5)
Puffinus mauretanicus Lowe, 1921 (1,4,5)
Puffinus puffinus (Brünnich, 1764) (1,4,5)
Recurvirostra avosetta Linnaeus, 1758 (2)
Rissa tridactyla (Linnaeus, 1758) (1,3,5)
Somateria mollissima (Linnaeus, 1758) (1,2)
Stercorarius longicaudus Vieillot, 1819 (1,5)
Stercorarius parasiticus (Linnaeus, 1758) (1,5)
Stercorarius pomarinus (Temminck, 1815) (1,5)
Sterna albifrons Pallas, 1764 (1,5)
Sterna dougallii Montagu, 1813 (1,4,5)
Sterna hirundo Linnaeus, 1758 (1,3,5)
Sterna paradisaea Pontoppidan, 1763 (1,3,5)
Sterna sandvicensis Latham, 1787 (1,3,5)
Tachybaptus ruficollis (Pallas, 1764) (1,3)
Tringa erythropus (Pallas, 1764) (2)
Tringa nebularia (Gunnerus, 1767) (2)
Tringa totanus (Linnaeus, 1758) (2)
Uria aalge (Pontoppidan, 1763) (1,3)



CETACEA - WHALES, DOLPHINS AND PORPOISES

Taxonomic validation:

- William Perrin (National Oceanic and Atmospheric Administration – NOAA, USA)

Geographic validation:

- Jan Haelters (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)
- Ann-Katrien Lescauwae (Flanders Marine Institute – VLIZ, Belgium)

Number of species: 18 + 2 probably extinct

Permanent: 6

Balaenoptera acutorostrata Lacépède, 1804
Delphinus delphis Linnaeus, 1758
Globicephala melas (Traill, 1809)
Lagenorhynchus albirostris (Gray, 1846)
Phocoena phocoena (Linnaeus, 1758)
Tursiops truncatus (Montagu, 1821)

Vagrant: 12

Balaenoptera borealis Lesson, 1828
Balaenoptera musculus (Linnaeus, 1758)
Balaenoptera physalus (Linnaeus, 1758)
Delphinapterus leucas (Pallas, 1776)
Grampus griseus (G. Cuvier, 1812)
Hyperoodon ampullatus (Forster, 1770)
Lagenorhynchus acutus (Gray, 1828)
Megaptera novaeangliae (Borowski, 1781)
Mesoplodon bidens (Sowerby, 1804)
Physeter macrocephalus Linnaeus, 1758
Stenella coeruleoalba (Meyen, 1833)
Ziphius cavirostris Cuvier, 1823

(Probably) extinct in Belgian marine waters: 2

Eubalaena glacialis (Müller, 1776)
Orcinus orca (Linnaeus, 1758)

CARNIVORA - CARNIVORES

Taxonomic validation:

- Morgan Churchill (University of Wyoming, USA)
- Prof. Annalisa Berta (San Diego State University, Department of Biology, USA)

Geographic validation:

- Jan Haelters (Management Unit of the North Sea Mathematical Models – MUMM, Belgium)



Number of species: 7

Permanent: 2

Halichoerus grypus (Fabricius, 1791)

Phoca vitulina Linnaeus, 1758

Vagrant: 5

Cystophora cristata (Erxleben, 1777)

Erignathus barbatus (Erxleben, 1777)

Odobenus rosmarus (Linnaeus, 1758)

Pagophilus groenlandicus (Erxleben, 1777)

Pusa hispida Schreber, 1775

RHODOPHYTA - RED ALGAE

Taxonomic validation:

- Prof. Michael Guiry (National University of Ireland, Martin Ryan Marine Science Institute - NUIG-MRI, Ireland)

Geographic validation:

- Dr. Olivier De Clerck (University of Ghent, Phycology (Algology) Section, Belgium)
- Klaas Pauly (University of Ghent, Phycology (Algology) Section, Belgium)

Number of species: 45, of which 4 are non-indigenous (*)

Acrochaetium savianum (Meneghini) Nägeli, 1862

Acrochaetium secundatum (Lyngbye) Nägeli, 1862

Aglaothamnion hookeri (Dillwyn) Maggs & Hommersand, 1993

Aglaothamnion roseum (Roth) Maggs & L'Hardy-Halos, 1993

Antithamnionella spirographidis (Schiffner) E.M. Wollaston, 1968 (*)

Antithamnionella ternifolia (J.D. Hooker & Harvey) Lyle, 1922 (*)

Bangiadulcis atropurpurea (Roth) W.A. Nelson, 2007

Catenella caespitosa (Withering) L.M. Irvine, 1976

Ceramium botryocarpum A.W. Griffiths ex Harvey, 1848

Ceramium cimbricum H.E. Petersen, 1924

Ceramium deslongchampsii Chauvin ex Duby, 1830

Ceramium diaphanum (Lightfoot) Roth, 1806

Ceramium gaditanum (Clemente) Cremades, 1990

Ceramium shuttleworthianum (Kützinger) Rabenhorst, 1846

Ceramium siliculosum (Kützinger) Maggs & Hommersand, 1993

Ceramium virgatum Roth, 1797

Chondrus crispus Stackhouse, 1797

Corallina officinalis Linnaeus, 1758

Cystoclonium purpureum (Hudson) Batters, 1902

Gelidium pusillum (Stackhouse) Le Jolis, 1863

Gelidium pusillum var. *pulvinatum* (C. Agardh) Feldmann, 1936

Haliptilon virgatum (Zanardini) Garbary & Johansen



Jania rubens (Linnaeus) J.V. Lamouroux, 1812
Jania rubens var. *crinata* (Linnaeus) J.V. Lamouroux
Lithophyllum pustulatum (J.V. Lamouroux) Foslie, 1904
Lomentaria articulata (Hudson) Lyngbye, 1819
Mastocarpus stellatus (Stackhouse) Guiry, 1984
Neosiphonia harveyi (Bailey) Kim, Choi, Guiry & Saunders, 2001 (*)
Palmaria palmata (Linnaeus) Kuntze, 1891
Phyllophora pseudoceranoides (S.G.Gmelin) Newroth & A.R.A.Taylor, 1971
Phymatolithon lenormandii (J.E.Areschoug) W.H.Adey, 1966
Plocamium cartilagineum (Linnaeus) P.S.Dixon, 1967
Polysiphonia fucoides (Hudson) Greville, 1824
Polysiphonia morrowii Harvey, 1857
Polysiphonia nigra (Hudson) Batters, 1902
Polysiphonia senticulosa Harvey, 1862 (*)
Polysiphonia stricta (Dillwyn) Greville, 1824
Porphyra dioica J.Brodie & L.M.Irvine, 1997
Porphyra leucosticta Thuret, 1863
Porphyra linearis Greville, 1830
Porphyra purpurea (Roth) C. Agardh, 1824
Porphyra umbilicalis (Linnaeus) Kützinger, 1843
Pterothamnion plumula (J.Ellis) Nägeli, 1855
Rhodothamnion floricola (Dillwyn) Feldmann, 1978
Vertebrata lanosa (Linnaeus) T.A. Christensen, 1967

CHLOROPHYTA - GREEN ALGAE

Taxonomic validation:

- Prof. Michael Guiry (National University of Ireland, Martin Ryan Marine Science Institute - NUIG-MRI, Ireland)

Geographic validation:

- Dr. Olivier De Clerck (University of Ghent, Phycology (Algology) Section, Belgium)
- Klaas Pauly (University of Ghent, Phycology (Algology) Section, Belgium)

Number of species: 46, of which 1 is non-indigenous (*)

Aphanochaete repens A.Braun, 1850
Blidingia marginata (J. Agardh) P.J.L.Dangeard ex Bliding, 1958
Blidingia minima (Nägeli ex Kützinger) Kylin, 1947
Blidingia ramifera (Bliding) Garbary & Barkhouse, 1987
Blidingia subsalsa (Kjellman) Kornmann & Sahling
Bryopsis hypnoides J.V. Lamouroux, 1809
Bryopsis plumosa (Hudson) C. Agardh, 1823
Capsosiphon fulvescens (C. Agardh) Setchell & N.L.Gardner, 1920
Chaetomorpha aerea (Dillwyn) Kützinger, 1849
Chaetomorpha melagonium (F.Weber & D.Mohr) Kützinger, 1845
Cladophora albida (Nees) Kützinger, 1843
Cladophora dalmatica Kützinger, 1843



Cladophora hutchinsiae (Dillwyn) Kützing, 1845
Cladophora laetevirens (Dillwyn) Kützing, 1843
Cladophora rupestris (Linnaeus) Kützing, 1843
Cladophora sericea (Hudson) Kützing, 1843
Codium fragile fragile (Suringar) Hariot, 1889 (*)
Gayralia oxysperma (Kützing) Vinogradova ex Scagel et al., 1969
Monostroma grevillei (Thuret) Wittrock, 1866
Percursaria percursa (C. Agardh) Rosenvinge, 1893
Prasiola stipitata Suhr ex Jessen, 1848
Rhizoclonium riparium (Roth) Kützing ex Harvey, 1849
Rhizoclonium tortuosum (Dillwyn) Kützing, 1845
Ulothrix flacca (Dillwyn) Thuret, 1863
Ulothrix palusalsa Lokhorst, 1978
Ulothrix speciosa (Carmichael) Kützing, 1849
Ulothrix subflaccida Wille, 1901
Ulothrix zonata (F. Weber & D. Mohr) Kützing, 1833
Ulva clathrata (Roth) C. Agardh, 1811
Ulva compressa Linnaeus, 1753
Ulva curvata (Kützing) De Toni, 1889
Ulva flexuosa Wulfen, 1803
Ulva intestinalis Linnaeus, 1753
Ulva kylinii (Bliding) Hayden, Blomster, Maggs, P.C. Silva, M.J. Stanhope & J.R. Waaland, 2003
Ulva lactuca Linnaeus, 1753
Ulva linza Linnaeus, 1753
Ulva prolifera O.F. Müller, 1778
Ulva pseudocurvata Koeman & van den Hoek, 1981
Ulva pseudolinza (R.P.T. Koeman & Hoek) Hayden, Blomster, Maggs, P.C. Silva, M.J. Stanhope & J.R. Waaland, 2003
Ulva radiata (J. Agardh) Hayden, Blomster, Maggs, P.C. Silva, M.J. Stanhope & J.R. Waaland, 2003
Ulva ralfsii (Harvey) Le Jolis, 1863
Ulva rigida C. Agardh, 1823
Ulva simplex (K.L. Vinogradova) Hayden, Blomster, Maggs, P.C. Silva, M.J. Stanhope & J.R. Waaland, 2003
Ulva torta (Mertens) Trevisan, 1841
Urospora neglecta (Kornmann) Lokhorst & Trask, 1981
Urospora penicilliformis (Roth) Areschoug, 1874

PHAEOPHYCEAE - BROWN ALGAE

Taxonomic validation:

- Prof. Michael Guiry (National University of Ireland, Martin Ryan Marine Science Institute - NUIG-MRI, Ireland)

Geographic validation:

- Dr. Olivier De Clerck (University of Ghent, Phycology (Algology) Section, Belgium)
- Klaas Pauly (University of Ghent, Phycology (Algology) Section, Belgium)



Number of species: 25

Permanent: 21, of which 2 are non-indigenous (*)

Ascophyllum nodosum (Linnaeus) Le Jolis, 1863
Ectocarpus confervoides f. *confervoides* (Roth) Le Jolis, 1863
Ectocarpus fasciculatus Harvey, 1841
Ectocarpus siliculosus (Dillwyn) Lyngbye, 1819
Elachista fucicola (Velley) Areschoug, 1842
Elachista stellaris Areschoug, 1842
Fucus serratus Linnaeus, 1753
Fucus spiralis Linnaeus, 1753
Fucus vesiculosus Linnaeus, 1753
Himanthalia elongata (Linnaeus) S.F. Gray, 1821
Hincksia ovata (Kjellman) P.C.Silva, 1987
Hincksia secunda (Kützinger) P.C.Silva, 1987
Petalonia fascia (O.F.Müller) Kuntze, 1898
Pilayella littoralis (Linnaeus) Kjellman, 1872
Punctaria latifolia Greville, 1830
Pylaiella littoralis (Linnaeus) Kjellman, 1872
Sargassum (*Bactrophyucus*) *muticum* (Yendo) Fensholt, 1955 (*)
Scytosiphon lomentaria (Lyngbye) Link, 1833
Sphacelaria plumigera Holmes, 1883
Spongonema tomentosum (Hudson) Kützinger, 1849
Undaria pinnatifida (Harvey) Suringar, 1872 (*)

Drift: 4

Chorda filum (Linnaeus) Stackhouse, 1797
Halidrys siliquosa (Linnaeus) Lyngbye, 1819
Laminaria digitata (Hudson) J.V. Lamouroux, 1813
Saccharina latissima (Linnaeus) C.E. Lane, C. Mayes, Druehl & G.W. Saunders, 2006

FUNGI

Ascomycota - sac fungi

Taxonomic validation:

- Dr. Paul Kirk (CABI, UK)

Geographic validation:

Based on: Diederich, P., D. Ertz, N. Stapper, E. Sérusiaux, D. Van den Broeck, P. van den Boom & C. Ries, 2010. The lichens and lichenicolous fungi of Belgium, Luxembourg and northern France. URL: <http://www.lichenology.info> [18.08.2010].

Number of species: 3

Tephromela atra var. *atra* (Huds.) Hafellner, 1983
Verrucaria maura Wahlenberg, 1803
Xanthoria parietina (L.) Beltr., 1858



MAGNOLIOPHYTA - FLOWERING PLANTS

Geographic validation:

- Dr. Sam Provoost (Research Institute for Nature and Forest – INBO, Belgium)

Number of species: 12

Atriplex glabriuscula Edmondst.
Atriplex laciniata Linnaeus
Atriplex littoralis Linnaeus
Beta vulgaris Linnaeus
Cakile maritima Scop.
Crambe maritima Linnaeus
Crithmum maritimum Linnaeus
Elymus farctus boreali-atlanticus (Simonet & Guin.) Melderis
Honckenya peploides (L.) Ehrh., 1783
Lathyrus japonicus maritimus (L.) P.W. Ball
Polygonum oxyspermum C.A. Mey. et Bunge ex Ledeb.
Salsola kali kali Linnaeus

Species groups not documented in Belgian part of the North Sea

For a number of taxonomic groups, no species were documented (sofar) in the Belgian part of the North Sea. Known shortcomings and additions can be communicated with VLIZ, so the list can be updated (leen.vandepitte@vliz.be or wim.decock@vliz.be).

For the following groups, literature was searched without results:

- | | |
|-------------------|-------------------|
| - Acanthocephala | - Nematomorpha |
| - Acarina | - Pentastomida |
| - Anaspidacea | - Placozoa |
| - Bathynellacea | - Priapulida |
| - Branchiura | - Remipedia |
| - Cephalocarida | - Staurozoa |
| - Gnathostomulida | - Stomatopoda |
| - Hemichordata | - Tantulocarida |
| - Mesozoa | - Tardigrada |
| - Mystacocarida | - Thermosbanaceae |



VLIZ Belgian Marine Species Consortium

Overview of all institutes and persons who contributed to the compilation and geographical validation of the Belgian Register of Marine Species (BeRMS).

- Vlaams Instituut voor de Zee (VLIZ)
 - Vandepitte, Leen
 - Decock, Wim
 - Hernandez, Francisco
 - Appeltans, Ward
 - Vanhoorne, Bart
 - Cattrijsse, André
 - Lescrauwaet, Ann-Katrien
 - Seys, Jan
 - Mees, Jan
 - Scholaert, Annelies
 - Bouchti, Zohra
 - Dewitte, Elien
 - Deneudt, Klaas
 - Goffin, Annelies
- Vlaamse Overheid; Beleidsdomein Landbouw en Visserij; Instituut voor Landbouw- en Visserijonderzoek; Kenniseenheid: Dier; Onderzoeksdomein Visserij (ILVO)
 - Hostens, Kristian (Kris)
 - Wittoeck, Jan
 - Van Ginderdeuren, Karl
 - De Backer, Annelies
 - Van Hoey, Gert
 - Hillewaert, Hans
 - Delbare, Daan
- De Strandwerkgroep België (SWG)
 - De Blauwe, Hans
 - Dumoulin, Emmanuel
- Universiteit Gent; Faculteit Wetenschappen; Vakgroep Biologie; Afdeling Mariene Biologie (MarBiol)
 - Vanaverbeke, Jan
- Koninklijk Belgisch Instituut voor Natuurwetenschappen; Departement Beheer van het Mariene Ecosysteem; Beheerseenheid Mathematisch Model Noordzee en Schelde-estuarium (BMM – MUMM)
 - Kerckhof, Francis
 - Haelters, Jan
 - Degraer, Steven



- Instituut voor Natuur- en Bosonderzoek (INBO)
 - Stienen, Eric
 - Soors, Jan
 - Provoost, Sam
 - Speybroeck, Jeroen
- Koninklijk Belgisch Instituut voor Natuurwetenschappen (KBIN)
 - Segers, Hendrik
 - Wouters, Karel
 - d'Udekem d'Acoz, Cédric
 - Massin, Claude
- Universiteit Gent; Faculteit Wetenschappen; Vakgroep Biochemie, Fysiologie en Microbiologie; Laboratorium voor Microbiologie
 - Willems, Anne
- Universiteit Gent; Faculteit Wetenschappen; Vakgroep Biologie; Afdeling Protistologie en aquatische ecologie (PAE)
 - Sabbe, Koen
- Universiteit Gent; Faculteit Wetenschappen; Vakgroep Biologie; Afdeling Algologie (Phycology)
 - De Clerck, Olivier
 - Pauly, Klaas
- Universiteit Gent; Afdeling Nematologie
 - Boone, Mieke
- Universiteit Hasselt; Departement Scheikunde, Biologie, Geologie
 - Artois, Tom
- Ghent University; Faculty of Bioscience Engineering; Department of Applied ecology and environmental biology; Laboratory of Environmental Toxicology and Aquatic Ecology; Environmental toxicology research group (ECOTOX)
 - Lock, Koen
- National Museum of Natural History - Naturalis
 - Gittenberger, Arjan
- Universiteit van Amsterdam
 - van Soest, Rob
- British Myriapod and Isopod Group
 - Barber, Anthony



- Museum für naturkunde; Institute of systematic zoology
 - Neuhaus, Birger
- Natural History Museum; Department of Zoology
 - Warren, Alan
- Senckenbergische Naturforschende Gesellschaft; Senckenberg Naturmuseen und Forschungsinstitute
 - Bartsch, Ilse