Bibliography of taxonomic literature for marine and brackish water Fauna and Flora of the North East Atlantic.

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1. Introduction

The North East Atlantic Marine Biological Analytical Quality Control (NMBAQC) Scheme undertakes quality assurance exercises relating to marine biological data collection for various ecosystem components. These currently include:

1. Benthic Invertebrates (& Epifauna);
2. Fish;
3. Zooplankton;
4. Phytoplankton;
5. Algae (and seagrasses).

The scheme has sought to provide participants with a variety of training resources to help improve identification skills which are a basis for assessment of marine communities. One of these has been the provision of taxonomic literature lists, which have previously been in the form of interactive databases, last updated in 2013. This year we have produced an updated bibliography in the form of a report to contain all the relevant literature.

The report includes all literature that we have been able to source that may be useful for the identification of marine organisms or that provides related additional information. These references have been collated by the scheme administrators and participants since the inception of the scheme in 1994. Prior to the NMBAQC scheme, compilations of identification references were produced by the British Museum (Sims, 1980) and Rees et al. (1990). The former attempted to cover all marine and brackish water faunal groups worldwide, the latter focused mostly on benthic faunas in relation to monitoring sewage sludge disposal sites around the United Kingdom. Both were already out of date by the time the NMBAQC scheme commenced.

The NMBAQC taxonomic bibliography initially covered only benthic invertebrates (as required for the UK Clean Seas Environmental Monitoring Programme) but expanded as new components on Fish, Phytoplankton, Macroalgae and Zooplankton were developed within the scheme to align with monitoring for the EU Water Framework and Marine Strategy Framework Directives. The geographic coverage focused first of all on the British Isles and surrounding seas as defined in the MCS Species
Directory (Howson & Picton, 1997) but now attempts to cover the NE Atlantic. Some references from the Mediterranean are included under the assumption that some of the Mediterranean fauna & flora will extend into the NE Atlantic but a full Mediterranean bibliography should be sought elsewhere. Similarly, coverage for deeper waters is limited and a fuller bibliography for these can be obtained from Gebruk et al. (2014).

The literature here includes published books, monographs, guides, synopses, and numerous journal articles. While more recent publications might be more up-to-date taxonomically and nomenclaturally it is often worth consulting older texts or even type-descriptions to find more detailed illustrations. Within taxonomy, a really good plate of figures is worth a thousand words of descriptive text! We have included a number of keys and notes produced by taxonomic workshops run by the Estuarine and Brackish-water Sciences Association (EBSA, subsequently ECSA, the Estuarine and Coastal Sciences Association) in the 1980s and latterly by the NMBAQC scheme and others. Although these are mostly unpublished, they have been widely used by competent monitoring authorities and consultancies. They are highlighted in grey as “grey” literature. Also included are a number of regional faunal lists which often provide useful associated information on the expected fauna or flora of particular regions. A summary of regional faunas for the UK is provided in Hiscock (1998a) with fuller details within relevant regional sections of Hiscock (1998b). The most comprehensive regional fauna list is the Plymouth Marine Fauna produced by the Marine Biological Association (MBA, 1957). Although this is now available on the web (http://www.mba.ac.uk/PMF/pmf_pdffiles.htm) it has not been updated and the nomenclature is out of date. The most up-to-date regional fauna is the revised Cullercoats District Fauna and Flora produced by the Dove Marine Laboratory (Foster-Smith, 2000).

This NMBAQC bibliography has a bias towards free living macrofaunal and macrofloral (i.e. macroalgal) groups. Coverage of microfauna and flora, meiofauna, and various parasitic groups (e.g. Mesozoa, Trematoda, Monogenea, Cestoda, Acanthocephala, Nematomorpha) is much more limited or absent. These groups may merit separate sections in future versions. Although articles about non native species are included within the taxonomic sections, a separate section on non-native marine species has also been included to bring all such references together.

No attempt has been made to suggest which resources ‘should’ be used for the identification of particular taxa. Each individual or laboratory will make their own decisions about preferred identification resources, which should include use of reference collections and training exercises as well as literature. The accuracy of identifications (e.g. in audited samples) will always be in relation to the actual identity of a specimen, not the way in which it keys out using particular guides. Please note also that, whilst the NMBAQC scheme and contractors may help source literature, where practicable, it is not their responsibility to provide participants or others with all required literature. Items listed here may or may not be in the possession of contractors or scheme administrators in a form that can be circulated.

Accepted nomenclature (with some variability in accuracy and date of update), and many useful references, can be obtained from the World Register of Marine Species (WoRMS) website: http://www.marinespecies.org/index.php; see also Horton et al. (2017).

Citations are listed in sections. The first provides literature for marine and brackish water benthic invertebrates, by taxonomic group (beginning with ‘general’ references and ending with Chordata). The second lists fish literature, alphabetically, the third, zooplankton by taxonomic group, the fourth phytoplankton, the fifth algae and the fourth, non-native species. The authors have more experience with marine benthic macroinvertebrates than with the other groups so the lists will be less comprehensive for fish, plankton, algae, meiofauna and animals that live on the fringes of the marine environment. Many references are listed twice, where they are relevant to more than one of these sections.
1.1 References for introduction


2. Identification literature for benthic invertebrates (by taxonomic group)

2.1 General


2.2 Protozoa


2.3 Porifera


2.4 Cnidaria


Hydrozoa


Cornelius, P.F.S., 1975. The Hydroid species of Obelia (Coelenterata, Hydrozoa: Campanulariidae), with notes on the medusa stage. Bulletin of the British Museum (Natural History), Zoology, 28(No.6), 251-293.


Edwards, C., 1983. The hydroids and medusae Sarsia piriformia sp.nov. and Sarsia striata sp.nov. from the west coast of Scotland, with observations of other species. Journal of the Marine Biological Association of the United Kingdom, 63, 49-60.


2.5 Entoprocta


2.6 Platyhelminthes


Whittington, I.D. & Kearns, G.C., 1989. Rapid hatching induced by light intensity reduction in the polyopisthocotylean monogenean *Plectanocotyle gurnardi* from the gills of gurnards (Triglidae), with
observations on the anatomy and behaviour of the oncomiracidium. *Journal of the Marine Biological Association of the United Kingdom,* 70(1), 21-32.


2.7 Gnathostomulida


2.8 Nemertea


### 2.9 Rotifera


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**2.10 Gastrotricha**


**2.11 Nematoda**


2.12 Kinorhyncha


Neves, R.C., Sørensen, M.V. & Herranz, M., 2016. First account of kinorhynchus from Portugal, with the description of two new species: *Echinoderes lusitanicus* sp. nov. and *E. reicherti* sp. nov. *Marine Biology Research*, 12(5), 455-470.


2.13 Loricifera


2.14 Echiura


2.15 Sipuncula

Açık, Ş., 2014. Check-list of Sipuncula from the coasts of Turkey. Turkish Journal of Zoology, 38, 1-11.


### 2.16 Priapulida


2.17 Annelida

Annelida - General


Fauchald, K., 1977. The polychaete worms, definitions and keys to the orders, families and genera. Science series, Issue 28, Natural History Museum of Los Angeles County, 188 pp..


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**Chrysopetalidae**


Aphroditidae


Polynoidae


**Pholoidae**


**Sigalionidae**


Phyllodocidae


Glyceridae


Goniadidae


Lacydonidae


Nephtyidae


Rainer, S.F. Northern European nephtyids. (Unpublished).

Rainer, S.F., 1984. Nephtys pente sp. nov. (Polychaeta; Nephtyidae) and a key to Nephtys from northern Europe. Journal of the Marine Biological Association of the United Kingdom, 64(4), 899-907.

Rainer, S.F., 1989. Redescription of Nephtys assimilis and N. kersivalensis (Polychaeta; Phyllodocida) and a key to Nephtys from northern Europe. Journal of the Marine Biological Association of the United Kingdom, 69(4), 875-889.


Nereidae


Hesionidae


Clausen, C., 1986. Microphthalmus ephippiophorus sp.n. (Polychaeta: Hesionidae) and two other Microphthalmus species from the Bergen area, Western Norway. Sarsia, 71, 177-191.


**Parergodrilidae**


**Pilargidae**


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Syllidae


Lucas, Y., Sikorski, A. & San Martín, G., 2017. Syllidae (Annelida) from the Boreal and sub-Arctic seas off Norway (North Sea, Norwegian Sea, Barents Sea). *Journal of the Marine Biological Association of the United Kingdom*, DOI: [https://doi.org/10.1017/S002531541600182X](https://doi.org/10.1017/S002531541600182X) (Published online).


**Sphaerodoridae**


Amphinomidae


Euphrosinidae


Spintheridae


Nerillidae


Eunicida


Clark, R.B., 1953. *Lumbrineris cluthensis*, n. sp. (Eunicidae), a new polychaete from the Firth of Clyde. *Annals and Magazine of Natural History* (Series 12), 6, 945-949.


**Aberrantidae**


**Spionidae**


**Uncispionidae**


**Trochochaetidae**


**Magelonidae**


Wilson, D.P., 1959. The polychaete *Magelona filiformis* n.sp. and notes on other species of *Magelona*. *Journal of the Marine Biological Association of the United Kingdom*, 38, 547-556.

**Chaetopteridae**


**Longosomatidae**


**Cirratulidae**


Gibson, P.H., 1996. Distribution of the cirratulid polychaetes *Dodecaceria fimbriata*, *D. concharum* and *D. diceria* in European waters between latitudes 48ºN and 70ºN. *Journal of the Marine Biological Association of the United Kingdom*, 76, 625-635.


McIntosh, W.C., 1911. Notes from the Gatty Marine Laboratory, St. Andrews.-No. XXXII. *Annals and Magazine of Natural History*, 38, 145-173.


Unicomarine Ltd., 1998. *Notes to accompany the Species Description Section of the Cirratulid Guide (v2.00),* 4pp., 19 distribution maps, (unpublished).


**Acrocirridae**


**Ctenodrilidae**


### Cossuridae


### Arenicolidae


### Capitellidae


**Maldanidae**


**Flabelligeridae**


**Fauveliopsidae**


**Sternaspidae**


**Oweniidae**


**Opheliidae**


**Scalibregmatidae**


**Orbiniidae (inc. ‘Questidae’)**


**Paraonidae**


**Terebellomorpha**


Sabellariidae


Wilson, D.P., 1929. The Larvae of the British Sabellarians. Journal of the Marine Biological Association of the United Kingdom, 16(1), 221-270.

**Sabellidae**


Serpulidae


Siboglinidae


Protodrillidae


Polygordidae


Oligochaeta


**Hirudinea**


Myzostomidae


2.18 Arthropoda


Cladocera


Cirripedia


Zintzen, V. & Kerckhof, F., 2009. The sponge-inhabiting barnacle Acasta spongites (Poli, 1795) (Crustacea, Cirripedia), a first record for the southern North Sea: how artificial habitats may increase the range of a species. Belgian Journal of Zoology, 139, 166-168.

Ostracoda


Vos, A.P.C. de, 1953. Three new commensal ostracods from Limnoria lignorum (Rathke). *Beaufortia*, 4 (No.34), 21-31. (Zoological Museum Amsterdam)


**Tantulocarida**


Copepoda


Brandorff, G.-O., 2011. The copepod invader Skistodiaptomus pallidus (Herrick, 1879) (Crustacea, Copepoda, Diaptomidae) from North America in water bodies of Bremen, northern Germany. Aquatic Invasions, 6, Supplement 1, S1–S5.


**Mysidacea**


**Leptostraca**


**Stomatopoda**


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### Amphipoda


Boeck, A. 1876. *De Skandinaviske og Arktiske Amphipoder Pt. 2*. Christiania, 161-713.


Faasse, M., 2014. Introduction of Ptilohyale littoralis to The Netherlands. Marine Biodiversity Records, 7(e28), 1-5, published online.


Myers, A.A. & McGrath, D., 1981. Taxonomic studies on British and Irish Amphipoda. The genus *Photis* with the re-establishment of *P. pollex* (= *P. macrocoxa*). *Journal of the Marine Biological Association of the United Kingdom*, 61, 759-768.


Sheader, M. & Evans, F., 1974. The taxonomic relationship of Parathamisto gaudichaudi (Guerin) and P. gracilipes (Norman), with a key to the genus Parathamisto. Journal of the Marine Biological Association of the United Kingdom, 54, 915-924.


Isopoda


Tanaidae


**Cumacea**


**Decapoda**


Crothers, J. & Crothers, M., 1983. A key to the crabs and crab-like animals of British inshore waters. AIDGAP, 155; *Field Studies*, 5, 753-806. Field Studies Council.


**Acari**


Pycnogonida


**Myriapoda**


**Insecta**


**2.19 Tardigrada**


2.20 Mollusca

Mollusca - General


**Caudofoveata**


**Solenogastres**


**Monoplacophora**


Polyplacophora


Scaphopoda


Öztürk, B., 2011. Scaphopod species (Mollusca) of the Turkish Levantine and Aegean seas. Turkish Journal of Zoology, 35(2). 199-211.


**Gastropoda**


Bañón, R., Rolán, E. & García-Tasende, M., 2008. First record of the purple dye murex Bolinus brandaris (Gastropoda: Muricidae) and a revised list of non native molluscs from Galician waters (Spain, NE Atlantic). Aquatic Invasions, 3(3), 331-334.


Galkin, Y.I., 1955. Gastropod molluscs of the family Trochidae of the far eastern and northern seas of the USSR. Izdatelstvo Akademii Nauk USSR, 131pp. (in russian)


Hanson, D., Cooke, S., Hirano, Y., Malaquias, M.A.E., Crocetta F. & Valdés, Á., 2013. Slipping through the cracks: the taxonomic Impediment conceals the origin and dispersal of Haminoea japonica, an invasive species with impacts to human health. PLoS ONE, 8(10), e77457. doi:10.1371/journal.pone.0077457.


Høisæter, T., 2014. The Pyramidellidae (Gastropoda, Heterobranchia) of Norway and adjacent waters. A taxonomic review. Fauna norvegica, 34, 7-78.


**Bivalvia**


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Bello, G., 2013. Description of a new sepioline species, Sepiola bursadhaesa n. sp. (Cephalopoda: Sepiolidae), from the Catalan Sea, with remarks and identification key for the Sepiola atlantica group. Scientia Marina 77(3), 489-499.


2.21 Brachiopoda


2.22 Cycliophora


2.23 Phoronida


2.24 Bryozoa


### 2.25 Chaetognatha


### 2.26 Echinodermata


### 2.27 Hemichordata


### 2.28 Chordata

**Asciidiacea**


**Cephalochordata**


3. Identification literature for fish

**Actinopterygii**


ICES/CIEEM. Conseil International pour L’exploration de la Mer. Indentification Sheets on Fish Eggs and Larvae. Sheets 1 (Clupeoidae), 2 (Ammodytidae), 4-6 (Pleuronectidae), 149 (Labridae), 172 (Blennidae), 173-75 (Macrouridae), 177 (Sparidae).

ICES/CIEEM. Conseil International pour L’exploration de la Mer. Indentification Sheets on Zooplankton. Sheets148 (Callionymidae) and 150-151 (Soleidae).


4. Identification literature for marine zooplankton

4.1 General


### 4.2 Protozoa


4.3 Cnidaria


4.4 Ctenophora


4.5 Nemertea


4.6 Rotifera


4.7 Annelida


Wilson, D.P. 1929. The larvae of British Sabellarians. *Journal of the Marine Biological Association of the United Kingdom*, 16(1), 221-269.

4.8 Arthropoda


Brandorff, G.-O., 2011. The copepod invader Skistodiaptomus pallidus (Herrick, 1879) (Crustacea, Copepoda, Diaptomidae) from North America in water bodies of Bremen, northern Germany. Aquatic Invasions, 6, Supplement 1, S1–S5.


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4.9 Mollusca


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4.10 Phoronida


4.11 Bryozoa


4.12 Chaetognatha


4.13 Echinodermata


4.14 Hemichordata


4.15 Chordata

**Tunicata**


**Fish**


5. Identification literature for marine phytoplankton


6. Identification literature for benthic algae


Fuller, I., 1982. Key to Ulothrix and Ulothrix-like algae. An experimental approach to the taxonomy of Ulothrix species from the Forth Estuary. Heriot-Watt University. (Unpublished)


7. Identification and general literature for non-native marine species


Bañón, R., Rolán, E. & García-Tasende, M., 2008. First record of the purple dye murex *Bolinus brandaris* (Gastropoda: Muricidae) and a revised list of non native molluscs from Galician waters (Spain, NE Atlantic). *Aquatic Invasions*, 3(3), 331-334.


Brandorff, G.-O., 2011. The copepod invader Skistodiaptomus pallidus (Herrick, 1879) (Crustacea, Copepoda, Diaptomidae) from North America in water bodies of Bremen, northern Germany. Aquatic Invasions, 6, Supplement 1, S1–S5.


Myers, A.A. & McGrath, D., 1981. Taxonomic studies on British and Irish Amphipoda. The genus *Photis* with the re-establishment of *P. pollex* (= *P. macrocoxa*). *Journal of the Marine Biological Association of the United Kingdom*, 61, 759-768.


