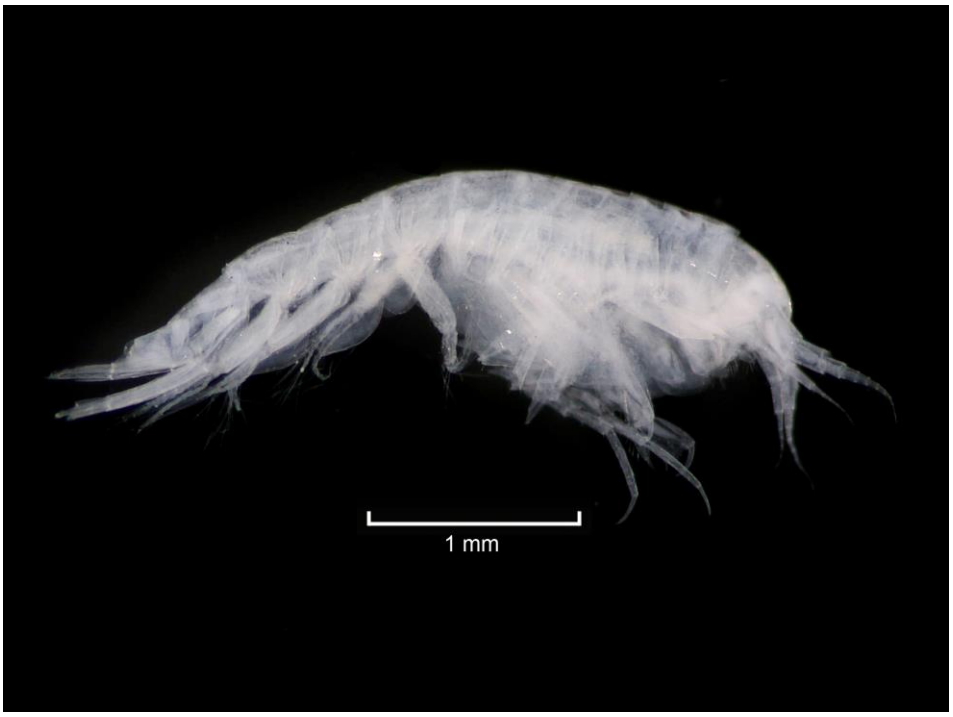
# NMBAQC

NE Atlantic Marine Biological Analytical Quality Control Scheme

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

**2025 Edition**

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**APEM Ltd.**
**Date of Issue: March 2025**

Cover image: *Amphilochus tenuimanus* (Boeck, 1871) RT6703

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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, of which the last version was updated in 2013. In 2018, an updated bibliography was issued in the form of a PDF report to contain all the relevant literature (Worsfold *et al*., 2018). A subsequent edition (Worsfold *et al*., 2020) was further updated and restructured and included around 400 additional references (Worsfold *et al*., 2020). It included new sections for the phyla Placozoa, Mesozoa, Nematomorpha, and Acanthocephala, along with the crustacean groups Remipedia, Cephalocarida, and Mystacocarida. The section on vertebrates was expanded to include reptiles (marine turtles), seabirds, and marine mammals. The section on non-native marine species (NNS) was re-organised and a separate section on unpublished "grey" identification literature was added. This new (2025) edition of the bibliography has been updated and expanded yet again with the addition of around 1500 references. All literature added since the previous 2020 edition is highlighted with a "###" prefix. The larger sections on Amphipoda, Isopoda, Gastropoda, Bivalvia, Bryozoa, Echinodermata and Acsidiacea have now been sub-divided into families, orders, or classes as appropriate to make it easier to find relevant references. Among the Arthropoda new sections on Arguloida and Pentastomida have been added. Newly added taxon groups are marked with a "##" prefix; a "##" suffix indicates a change, such as spelling or taxonomic re-assignment.

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 fauna 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 initially focused on the British Isles and surrounding seas, as defined in the MCS Species Directory (Howson & Picton, 1997), and was later expanded to cover the NE Atlantic. Some references from the Mediterranean are included under the assumption that some of the Mediterranean fauna and flora will extend into the NE Atlantic but a fuller Mediterranean bibliography should be sought elsewhere (eg.

Costello *et al*. 2001). Similarly, coverage for deeper waters is limited and an additional bibliography for these can be obtained from Gebruk *et al.* (2014). Occasional references are included from outwith the geographical area if they include relevant keys or illustrations of fauna that do occur within the area. Similarly some literature on freshwater biota is included where it is deemed useful for identifying brackish water species.

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! However, including every single publication (or type description) that has ever included an illustration or description of fauna or flora from the area would be impractical.

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 included, where appropriate, in the taxonomic sections and as a separate list of "grey" literature at the end. The NMBAQC scheme has collated an archive of the various unpublished keys and guides and most of these are now available on the scheme website (https://www.nmbaqcs.org). These unpublished keys range from old hand-written versions to more formal type-set keys and often include thumb-nail sketches or figures. The scanned copies in the NMBAQC archive are frequently annotated with notes added at the relevant workshop or at a later date. These keys are collated from various sources and the authorship given is usually that of the lead workshop tutor who presented them.

Knowing what species to expect in a marine area is an important aid in identifying organisms. Hence several regional faunal lists have been included here 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 UK 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 very out of date. The most up-to-date UK regional fauna list is the revised Cullercoats District Fauna and Flora produced by the Dove Marine Laboratory (Foster-Smith, 2000).

The Species Directory compiled by Howson & Picton (1997) is effectively a marine faunal and floral listing for the whole of the British and Irish marine shelf area. Around the same time Hansson (1997-99) issued a series of thirteen species check-lists entitled North East Atlantic Taxa (NEAT) but actually covering the South Scandinavian (and neighbouring) area. These check-lists (cited below in taxonomic order) comprehensively cover all of the marine faunal groups but do not include any further references for identifying fauna. Only a few years later Costello *et al*. (2001) published their European Register of Marine Species (ERMS) – a check-list of marine species in Europe and a bibliography of guides for their identification. Their geographic coverage included the north-east Atlantic eastwards of the mid-Atlantic ridge and northwards from the Canaries towards Arctic waters and also the Mediterranean Sea.

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. Myxozoa, Trematoda, Cestoda, Acanthocephala) is much more limited, although at least some references for even the most obscure groups have been included (eg. Pentastomida added in this edition). These groups may merit separate sections in future versions or perhaps separate bibliographies. Marine fungi are very neglected and have not been included here, although a checklist of marine fungi from European seas is included in Costello *et al*. (2001). 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. A beginners' guide to the most useful keys for benthic macrofauna is now available on the NMBAQC website (O'Reilly, 2024). For more detailed identifications or for rarer species each individual or laboratory should 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 any required literature. Copyright regulations may restrict distribution of many articles.

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). A subset (subregister) of the WoRMS register for deep-sea species is available from the World Register of Deep-Sea Species (WoRDSS): https://marinespecies.org/DeepSea/. A subset for marine species for the North Atlantic is available from: North Atlantic Register of Marine Species (NARMS) and subset for European marine species is available from the European Register of Marine Species (ERMS): https://www.marbef.org/data/erms.php and a subset for British and nearby waters is available from Marine Species for the British Isles and Adjacent Seas (MSBIAS): https://www.marinespecies.org/msbias/. Most of the above, however, require substantial revision (e.g. MSBIAS includes several tropical species added with the Unicorn database, which included overseas projects).

Within this taxonomic bibliography, the citations are listed in sections. Following this introductory section, the second section provides literature for marine and brackish water benthic invertebrates, by taxonomic group (beginning with 'general' references and ending with Chordata). The third section lists vertebrate literature, by class, the fourth, zooplankton by taxonomic group, the fifth phytoplankton, the sixth algae, the seventh, non-native species and finally a section on unpublished literature. Many references are listed twice, where they are relevant to more than one of these sections.

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## 2. Benthic invertebrate identification literature (by taxonomic group)

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## 2.30 Bryozoa

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### 8.1.3 ## Arthropoda


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