

## A bioturbation classification of European marine infaunal invertebrates

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## Introduction

Marine soft-sediment habitats represent some of the most functionally important ecosystems on Earth, being charac-

## Abstract

Bioturbation, the biogenic modification of sediments through particle reworking and burrow ventilation, is a key mediator of many important geochemical processes in marine systems. In situ quantification of bioturbation can be achieved in a myriad of ways, requiring expert knowledge, technology, and resources not always available, and not feasible in some settings. Where dedicated research programmes do not exist, a practical alternative is the adoption of a trait-based approach to estimate community bioturbation potential ( $BP_c$ ). This index can be calculated from inventories of species, abundance and biomass data (routinely available for many systems), and a functional classification of organism traits associated with sediment mixing (less available). Presently, however, there is no agreed standard categorization for the reworking mode and mobility of benthic species. Based on information from the literature and expert opinion, we provide a functional classification for 1033 benthic invertebrate species from the northwest European continental shelf, as a tool to enable the standardized calculation of  $BP_c$  in the region. Future uses of this classification table will increase the comparability and utility of large-scale assessments of ecosystem processes and functioning influenced by bioturbation (e.g., to support legislation). The key strengths, assumptions, and limitations of  $BP_c$  as a metric are critically reviewed, offering guidelines for its calculation and application.

terized by a high biomass and diversity of invertebrate organisms that are fundamental to the mediation of a wealth of goods and services (Lotze et al. 2006; White et al. 2010; Widdicombe and Somerfield 2012). Infaunal inverte-

brates exhibit significant influence over benthic sedimentary geochemical environments in soft sediments through bioturbation, that is, the mixing of sediment and particulate materials carried out during foraging, feeding and burrow maintenance activities, and the enhancement of pore water and solute advection during burrow ventilation (Richter 1936; Rhoads 1974; Volkenborn et al. 2010). These processes influence oxygen, pH and redox gradients (Stahl et al. 2006; Pischedda et al. 2008; Queirós et al. 2011), metal cycling (Teal et al. 2009), sediment granulometry (Montserrat et al. 2009), pollutant release (Gilbert et al. 1994), macrofauna diversity (Volkenborn et al. 2007), bacterial activity and composition (Mermillod-Blondin and Rosenberg 2006; Gilbertson et al. 2012), and ultimately carbon (Kristensen 2001) and nitrogen cycling (Bertics et al. 2010). Hence, in light of anticipated changes to marine systems associated with human activity (Halpern et al. 2008; Hoegh-Guldberg and Bruno 2010), large-scale assessments of bioturbation can contribute to a better understanding of how of ecosystem functioning is mediated by biological activity.

Community bioturbation potential ( $BP_c$ ) is a metric first described by Solan et al. (2004a), which combines abundance and biomass data with information about the life traits of individual species or taxonomic groups. This information describes modes of sediment reworking ( $R_i$ ) and mobility ( $M_i$ ) of taxa in a dataset, two traits known to regulate biological sediment mixing, a key component of bioturbation (Solan 2000; and references therein; Solan et al. 2004b).  $BP_c$  is thus not a direct measure of the process of bioturbation. Rather,  $BP_c$  provides an estimate of the potential of a community to bioturbate. Hence, where macrofauna abundance and biomass data are available,  $BP_c$  provides a means to estimate the extent to which benthic communities are likely to affect important ecosystem properties that underpin ecosystem functioning. The consequences of environmentally driven changes in biodiversity to  $BP_c$ , and its relation to ecosystem functioning, have been explored in this way in terrestrial (Bunker et al. 2005) and marine habitats (Solan et al. 2004a,b); at the local (Lohrer et al. 2010; Teal et al. 2013) and regional scales (Queirós et al. 2011; Birchenough et al. 2012; Solan et al. 2012); for different contexts (e.g., habitat structure and hypoxia, Queirós et al. 2011; Van Colen et al. 2012; Villnäs et al. 2012); and for a variety of ecosystem functions including productivity (Solan et al. 2012), nutrient cycling (Solan et al. 2004a), carbon storage (Bunker et al. 2005; Solan et al. 2012), and decomposition (Josefson et al. 2012). By calculating  $BP_c$  over time, or for different locations or scenarios, changes in the efficiency of the organism-sediment couple can be monitored for compliance in support of management and policy objectives (Painting et al. 2012; Van Hoey et al. 2013). For example, the effects of simulated changes in benthic com-

munity structure have previously been used to explore possible changes in ecosystem properties like sediment organic carbon at the North Sea scale, based on empirically derived relationships between  $BP_c$  and sediment organic carbon (Fig. 1). Similar uses of  $BP_c$  could invaluablely contribute to an increased understanding of the role of ecosystem structure in the sustenance of marine functioning and its resilience to human activities, an urgent need under current European legislation (Marine Strategy Framework Directive, 2008/56/EC).

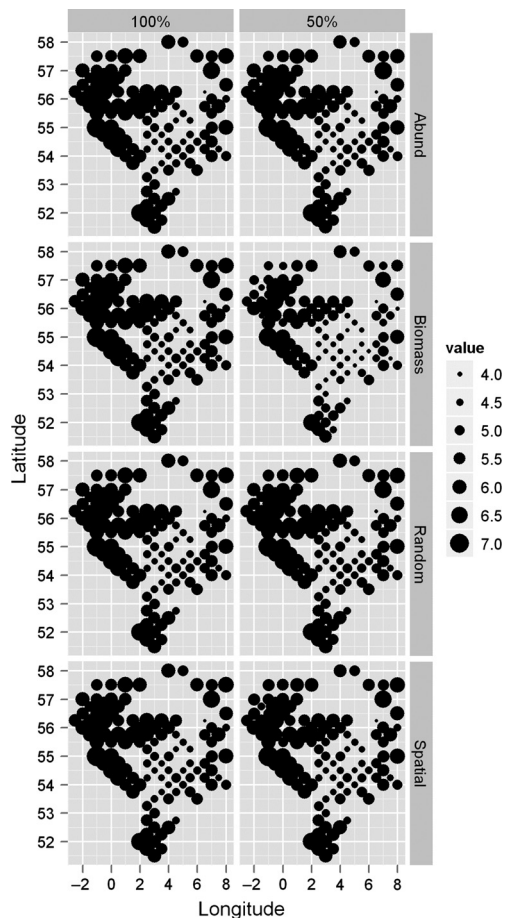
A significant obstacle in the widespread application of  $BP_c$ , however, is the need for a standard classification scheme that is supported by the benthic research community. As a first step in fulfilling this research gap, we present the findings of the Study Group on Climate Related Benthic Processes in the North Sea, an expert group appointed by the International Council for the Exploration of the Sea (ICES SGCBNS). We present the conclusions of a series of dedicated workshops tasked with deriving a functional classification of northwest European marine invertebrate species to facilitate the calculation of  $BP_c$  in different regions of the North Atlantic.

## Methods

The classification of marine invertebrate infauna into bioturbation groups was carried out using 18 datasets compiled from northwest European waters ( $n = 1033$  species). Following Swift (1993) and Solan et al. (2004a), each taxon (1) was scored on categorical scales that reflect increasing mobility ( $M_i$ ) from 1 (living in a fixed tube) to 4 (free three dimensional movement via burrow system), and increasing sediment reworking ( $R_i$ ) from 1 (epifauna that bioturbate at the sediment-water interface) to 5 (regenerators that excavate holes, transferring sediment at depth to the surface).

$$BP_c = \sum_{i=1}^n \sqrt{B_i/A_i} \times A_i \times M_i \times R_i$$

$B_i$  and  $A_i$  are the biomass and abundance of species/taxon  $i$  in a sample. Trait scores were derived from an extensive review of published material and expert knowledge (consensus of 12 authors), and details of the scoring system are provided below. Species for which no published information was available were scored based on descriptions of species behavior and information on closely related species at the nearest taxonomic level. As  $BP_c$  captures information about sediment particle reworking, pelagic species and those living on hard substrates were not included. Sediment reworking functional types were also defined ( $Ft_i$ ), according to François et al. (1997), Solan (2000), and Gérino et al. (2003). Taxonomic information and Aphia ID (a unique species database identifier) were extracted from the World Register of Marine Species (2012).



**Figure 1.** Percentage of sediment organic carbon (circles, diameter scaled to %) at each of 109 sites sampled during the North sea benthos Survey conducted by the Benthos Ecology Working Group of the International Council for the Exploration of the Sea in 1986 (left column, “100%”), and following the implementation of simulated trait based extinction scenarios (right column, “50%”). By combining measurements of ecosystem functions with information on relevant species traits (abundance, biomass, functional group and behaviour), empirically derived relationships between specific ecosystem functions and  $BP_c$  can be derived. In this case, the relationship between  $BP_c$  and sediment % of organic carbon. Species extinction scenarios can be simulated and the consequential changes in ecosystem functioning recalculated based on changes in community composition and/or structure following implementation of each scenario. In this example, the predicted levels of sediment organic carbon content are presented for a 50% reduction in species richness (right column, “50%”) following sequential local expiration of species ordered by the most abundant species within a site (top row), those with the largest biomass (second row from top), or by the most abundant species across the region (bottom row). The consequences for ecosystem functioning (here, sediment organic carbon content) following these ordered extinction scenarios contrast to a scenario where species are extirpated in a random order (third row from top). Implementing various trait-based extinction scenarios in this way provides insights on possible outcomes following, for example, changes in management or as a result of anthropogenic forcing. Modified from Solan *et al.* (2012).

## Results

Table 1 provides the classifications for mobility ( $M_i$ ) and sediment particle reworking ( $R_i$ ) assigned to the 1033 marine invertebrate species (and other taxa) from north-west European waters, and the associated sediment reworking functional types ( $Ft_i$ ). Please refer to the table for details of the scoring criteria.

## Discussion

As with any functional classification that on which  $BP_c$  is calculated relies on three main assumptions. Understanding these assumptions, and the need to correct for them where information is available, is key steps in the adequate use of  $BP_c$  as a metric:

- 1 If body size is constant, the  $BP_c$  of a species/taxon ( $BP_i$ ) is transferable across space and time.  $BP_c$  accounts for two “fixed” traits ( $R_i$  and  $M_i$ ) that are assumed to be directly related to life-history traits and activity levels of each species, that are not altered by context or spatiotemporal variation. Where information to the contrary is available about the alteration of species behavior in response to external stimuli, context-specific adjustments to reworking and mobility trait scores should be made accordingly: for example, thermal stress (Ouellette *et al.* 2004; Przeslawski *et al.* 2009); habitat structure (Godbold *et al.* 2011); ocean acidification (Godbold and Solan 2013); or presence of a predator (Maire *et al.* 2010). For instance, sediment type has been observed to be influential when determining the classification of a particular species into one of two specific functional groups (Needham *et al.* 2011), but this has not been documented for the vast majority of bioturbators. Incorporation of this type of information could be achieved using more sophisticated routines, such as fuzzy coding, to capture the influence of intraspecific variability in reworking and mobility traits (Maire *et al.* 2007; Bremner 2008; Godbold *et al.* 2011) across known sources of variation (habitat, season, food availability, etc.). The paucity of such information present for the majority of marine species (Tyler *et al.* 2012) is a source of concern and will be needed to project potential changes in  $BP_c$  under future policy or environmental scenarios. Typical body size is a “flexible” trait in the metric, which will vary in response to environmental variation, seasonality, stress, and disturbance (Queirós *et al.* 2006; Macdonald *et al.* 2012).  $BP_c$  captures this information through changes in the biomass/abundance ratio on which typical body size is calculated.
- 2 An organism’s reworking ( $R_i$ ) and mobility ( $M_i$ ) modes remain the same across the life span of each individual.

**Table 1.** Bioturbation potential allocations for 1033 macrofaunal species.  $M_i$  and  $R_i$  are the reworking and mobility traits, and  $F_t$  is the corresponding sediment reworking functional types.

| Scientific Name                   | Aphia ID | Ri | Mi | Fti   | Phylum   | Class      | Order        | Family           |
|-----------------------------------|----------|----|----|-------|----------|------------|--------------|------------------|
| Grania                            | 369702   | 4  | 3  | B     | Annelida | Clitellata | Enchytraeida | Caenogastropoda  |
| <i>Tubificoides amplivasatus</i>  | 137570   | 4  | 3  | B     | Annelida | Clitellata | Haplotaxida  | Tubificidae      |
| <i>Tubificoides insularis</i>     | 137578   | 4  | 3  | B     | Annelida | Clitellata | Haplotaxida  | Tubificidae      |
| <i>Tubificoides pseudogaster</i>  | 137582   | 4  | 3  | B     | Annelida | Clitellata | Haplotaxida  | Tubificidae      |
| Oligochaeta                       | 2036     | 4  | 3  | B     | Annelida | Clitellata |              |                  |
| <i>Cossura longocirrata</i>       | 129984   | 2  | 3  | S     | Annelida | Polychaeta |              | Cossuridae       |
| <i>Chirimia biceps</i>            | 130277   | 3  | 2  | UC/DC | Annelida | Polychaeta |              | Maldanidae       |
| <i>Clymenura lankesteri</i>       | 130284   | 3  | 1  | UC/DC | Annelida | Polychaeta |              | Maldanidae       |
| Euclymene                         | 129347   | 3  | 1  | UC/DC | Annelida | Polychaeta |              | Maldanidae       |
| Lumbriclymene                     | 129350   | 3  | 1  | UC/DC | Annelida | Polychaeta |              | Maldanidae       |
| Nicomache                         | 129357   | 3  | 1  | UC/DC | Annelida | Polychaeta |              | Maldanidae       |
| Rhodine                           | 129363   | 3  | 1  | UC    | Annelida | Polychaeta |              | Maldanidae       |
| <i>Ophelia borealis</i>           | 130491   | 4  | 3  | B     | Annelida | Polychaeta |              | Opheliidae       |
| <i>Ophelina cylindricaudata</i>   | 465714   | 4  | 3  | B     | Annelida | Polychaeta |              | Opheliidae       |
| <i>Ophelina modesta</i>           | 130507   | 4  | 3  | B     | Annelida | Polychaeta |              | Opheliidae       |
| <i>Ophelina norvegica</i>         | 130508   | 4  | 3  | B     | Annelida | Polychaeta |              | Opheliidae       |
| <i>Travisia forbesii</i>          | 130512   | 4  | 3  | B     | Annelida | Polychaeta |              | Opheliidae       |
| <i>Orbinia norvegica</i>          | 156278   | 4  | 3  | B     | Annelida | Polychaeta |              | Orbiniidae       |
| <i>Aricidea (Acmira) laubieri</i> | 326587   | 2  | 3  | S     | Annelida | Polychaeta |              | Paraonidae       |
| <i>Aricidea (Allia) roberti</i>   | 326598   | 2  | 3  | S     | Annelida | Polychaeta |              | Paraonidae       |
| <i>Aricidea (Aricidea) wassi</i>  | 326605   | 2  | 3  | S     | Annelida | Polychaeta |              | Paraonidae       |
| <i>Aricidea simonae</i>           | 130570   | 2  | 3  | S     | Annelida | Polychaeta |              | Paraonidae       |
| <i>Aricidea suecica</i>           | 130572   | 2  | 3  | S     | Annelida | Polychaeta |              | Paraonidae       |
| <i>Cirrophorus armatus</i>        | 152339   | 2  | 3  | S     | Annelida | Polychaeta |              | Paraonidae       |
| <i>Paraonis fulgens</i>           | 146932   | 2  | 3  | S     | Annelida | Polychaeta |              | Paraonidae       |
| Polygordius                       | 129472   | 2  | 2  | S     | Annelida | Polychaeta |              | Polygordiidae    |
| <i>Protodriloides chaetifer</i>   | 130837   | 2  | 2  | S     | Annelida | Polychaeta |              | Protodriloididae |
| <i>Polyphysia crassa</i>          | 130977   | 4  | 4  | B     | Annelida | Polychaeta |              | Scalibregmatidae |
| <i>Paramphinome jeffreysii</i>    | 129837   | 4  | 3  | B     | Annelida | Polychaeta | Amphinomida  | Amphinomidae     |
| <i>Pareurythoe borealis</i>       | 129838   | 4  | 3  | B     | Annelida | Polychaeta | Amphinomida  | Amphinomidae     |
| <i>Euphosine foliosa</i>          | 130083   | 2  | 3  | S     | Annelida | Polychaeta | Amphinomida  | Euphosinidae     |
| Capitellida                       | 890      | 3  | 2  | UC    | Annelida | Polychaeta | Capitellida  |                  |
| Ophryotrocha                      | 129266   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Dorvilleidae     |
| <i>Parougia caeca</i>             | 130036   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Dorvilleidae     |
| <i>Parougia eliasoni</i>          | 130037   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Dorvilleidae     |
| <i>Parougia nigridentata</i>      | 130039   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Dorvilleidae     |
| <i>Protodorvillea kefersteini</i> | 130041   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Dorvilleidae     |
| Schistomeringos                   | 129274   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Dorvilleidae     |
| <i>Schistomeringos rudolphii</i>  | 154127   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Dorvilleidae     |
| Eunice                            | 129278   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Eunicidae        |
| <i>Eunice dubitata</i>            | 130055   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Eunicidae        |
| <i>Eunice pennata</i>             | 130060   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Eunicidae        |
| Eunicidae                         | 966      | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Eunicidae        |
| <i>Lysidice ninetta</i>           | 130071   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Eunicidae        |
| Marphysa                          | 129281   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Eunicidae        |
| <i>Marphysa bellii</i>            | 130072   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Eunicidae        |
| <i>Nematonereis unicornis</i>     | 594957   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Eunicidae        |
| Abyssoninoe                       | 129331   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Lumbrineridae    |
| <i>Abyssoninoe hibernica</i>      | 146469   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Lumbrineridae    |
| <i>Lumbrineriopsis paradoxa</i>   | 130235   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Lumbrineridae    |
| Lumbrineris                       | 129337   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Lumbrineridae    |
| <i>Lumbrineris agastos</i>        | 130236   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Lumbrineridae    |
| <i>Lumbrineris aniana</i>         | 130238   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Lumbrineridae    |
| <i>Lumbrineris fragilis</i>       | 152285   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Lumbrineridae    |
| <i>Lumbrineris gracilis</i>       | 130244   | 4  | 3  | B     | Annelida | Polychaeta | Eunicida     | Lumbrineridae    |

Table 1. Continued.

| Scientific Name                  | Aphia ID | Ri | Mi | Fti | Phylum   | Class      | Order        | Family        |
|----------------------------------|----------|----|----|-----|----------|------------|--------------|---------------|
| <i>Lumbrineris latreilli</i>     | 130248   | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     | Lumbrineridae |
| <i>Lumbrineris magnidentata</i>  | 155360   | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     | Lumbrineridae |
| <i>Ninoe armoricana</i>          | 130254   | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     | Lumbrineridae |
| <i>Scoletoma</i>                 | 129340   | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     | Lumbrineridae |
| <i>Scoletoma impatiens</i>       | 130263   | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     | Lumbrineridae |
| <i>Arabella</i>                  | 129199   | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     | Oeononidae    |
| <i>Arabella iricolor</i>         | 129854   | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     | Oeononidae    |
| <i>Drilonereis</i>               | 129200   | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     | Oeononidae    |
| <i>Drilonereis filum</i>         | 129856   | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     | Oeononidae    |
| <i>Hyalinoecia tubicola</i>      | 130464   | 2  | 3  | S   | Annelida | Polychaeta | Eunicida     | Onuphidae     |
| <i>Nothria conchylega</i>        | 130467   | 2  | 3  | S   | Annelida | Polychaeta | Eunicida     | Onuphidae     |
| <i>Nothria hyperborea</i>        | 181500   | 2  | 3  | S   | Annelida | Polychaeta | Eunicida     | Onuphidae     |
| <i>Onuphis</i>                   | 129404   | 2  | 3  | S   | Annelida | Polychaeta | Eunicida     | Onuphidae     |
| <i>Paradiopatra quadricuspis</i> | 130480   | 2  | 3  | S   | Annelida | Polychaeta | Eunicida     | Onuphidae     |
| <i>Eunicida</i>                  | 895      | 4  | 3  | B   | Annelida | Polychaeta | Eunicida     |               |
| <i>Eupanthalis kinbergi</i>      | 129735   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Acoetidae     |
| <i>Aphrodita aculeata</i>        | 129840   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Aphroditidae  |
| <i>Aphroditidae</i>              | 938      | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Aphroditidae  |
| <i>Glycera</i>                   | 129296   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera alba</i>              | 130116   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera celtica</i>           | 130119   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera fallax</i>            | 336908   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera gigantea</i>          | 130122   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera lapidum</i>           | 130123   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera oxycephala</i>        | 130126   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera rouxii</i>            | 130127   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera tessellata</i>        | 130128   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera tridactyla</i>        | 130130   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycera unicornis</i>         | 130131   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glyceridae</i>                | 952      | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Glyceridae    |
| <i>Glycinde nordmanni</i>        | 130136   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Goniadidae    |
| <i>Goniada</i>                   | 129300   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Goniadidae    |
| <i>Goniada maculata</i>          | 130140   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Goniadidae    |
| <i>Goniadella</i>                | 129301   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Goniadidae    |
| <i>Goniadella gracilis</i>       | 130145   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Goniadidae    |
| <i>Gyptis</i>                    | 129307   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Hesionidae</i>                | 946      | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Kefersteinia cirrata</i>      | 130164   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Microphthalmus</i>            | 129313   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Microphthalmus similis</i>    | 130176   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Nereimyra punctata</i>        | 130185   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Oxydromus agilis</i>          | 710683   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Oxydromus flexuosus</i>       | 710680   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Podarkeopsis capensis</i>     | 130195   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Psamathe fusca</i>            | 152249   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Syllidia armata</i>           | 130198   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Hesionidae    |
| <i>Aglaophamus agilis</i>        | 130343   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |
| <i>Nephtyidae</i>                | 956      | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |
| <i>Nephtys</i>                   | 129370   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |
| <i>Nephtys assimilis</i>         | 130353   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |
| <i>Nephtys caeca</i>             | 130355   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |
| <i>Nephtys cirrosa</i>           | 130357   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |
| <i>Nephtys hombergii</i>         | 130359   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |
| <i>Nephtys hystricis</i>         | 130360   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |
| <i>Nephtys incisiva</i>          | 130362   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |
| <i>Nephtys kersivalensis</i>     | 130363   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae    |



Table 1. Continued.

| Scientific Name                            | Aphia ID | Ri | Mi | Fti | Phylum   | Class      | Order        | Family           |
|--|----------|----|----|-----|----------|------------|--------------|------------------|
| <i>Nephtys longosetosa</i>                 | 130364   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae       |
| <i>Nephtys paradoxa</i>                    | 130365   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nephtyidae       |
| Nereididae                                 | 22496    | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereidae         |
| <i>Alitta succinea</i>                     | 234850   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Ceratocephale loveni</i>                | 130367   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Eunereis elittoralis</i>                | 130374   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Eunereis longissima</i>                 | 130375   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Hediste diversicolor</i>                | 152302   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Micronereis variegata</i>               | 130380   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Neanthes fucata</i>                     | 130387   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Neanthes irrorata</i>                   | 130389   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| Nereis                                     | 129379   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Nereis pelagica</i>                     | 130404   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| Nereis zonata                              | 130407   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Websterinereis glauca</i>               | 130426   | 4  | 4  | B   | Annelida | Polychaeta | Phyllodocida | Nereididae       |
| <i>Paralacydonia paradoxa</i>              | 130545   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Paralacydoniidae |
| Pholoe                                     | 129439   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Pholoidae        |
| <i>Pholoe assimilis</i>                    | 130598   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Pholoidae        |
| <i>Pholoe baltica</i>                      | 130599   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Pholoidae        |
| <i>Pholoe inornata</i>                     | 130601   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Pholoidae        |
| <i>Pholoe minuta</i>                       | 130603   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Pholoidae        |
| <i>Pholoe pallida</i>                      | 130604   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Pholoidae        |
| <i>Chaetoparia nilssoni</i>                | 130610   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| Eteone                                     | 129443   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Eteone barbata</i>                      | 231870   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Eteone flava</i>                        | 130613   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Eteone foliosa</i>                      | 130614   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Eteone longa</i>                        | 130616   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| Eulalia                                    | 129445   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Eulalia mustela</i>                     | 130631   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Eulalia viridis</i>                     | 130639   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| Eumida                                     | 129446   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Eumida bahusiensis</i>                  | 130641   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Eumida sanguinea</i>                    | 130644   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Hesionura elongata</i>                  | 130649   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Hypereteone foliosa</i>                 | 152250   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Mysta picta</i>                         | 147026   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Nereiphylla rubiginosa</i>              | 130659   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Paranaitis kosteriensis</i>             | 130662   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| Phyllodoce                                 | 129455   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Phyllodoce (Anaitides) groenlandica</i> | 130668   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Phyllodoce groenlandica</i>             | 334506   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Phyllodoce laminosa</i>                 | 130670   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Phyllodoce lineata</i>                  | 334508   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Phyllodoce longipes</i>                 | 130673   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Phyllodoce maculata</i>                 | 334510   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Phyllodoce mucosa</i>                   | 334512   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Phyllodoce rosea</i>                    | 334514   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| Phyllodocidae                              | 931      | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Pirakia punctifera</i>                  | 147104   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Pseudomystides limbata</i>              | 130683   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Sige fusigera</i>                       | 130690   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Phyllodocidae    |
| <i>Ancistargis hamata</i>                  | 130692   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Pilargidae       |
| <i>Ancistrosyllis groenlandica</i>         | 130695   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Pilargidae       |
| <i>Glyphohesione klatti</i>                | 130696   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Pilargidae       |

Table 1. Continued.

| Scientific Name                    | Aphia ID | Ri | Mi | Fti | Phylum   | Class      | Order        | Family         |
|------------------------------------|----------|----|----|-----|----------|------------|--------------|----------------|
| <i>Pilargis verrucosa</i>          | 130700   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Pilargidae     |
| <i>Sigambra parva</i>              | 130702   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Pilargidae     |
| <i>Pisione remota</i>              | 130707   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Pisionidae     |
| <i>Acholoe squamosa</i>            | 146474   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Alentia gelatinosa</i>          | 130722   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Enipo elisabethae</i>           | 130737   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Enipo kinbergi</i>              | 130738   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Enipo kinbergi</i>              | 130738   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Eunoe nodosa</i>                | 130745   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Gattyana amondseni</i>          | 130748   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Gattyana cirrhosa</i>           | 130749   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| Harmothoe                          | 129491   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Harmothoe extenuata</i>         | 130762   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Harmothoe fraserthomsoni</i>    | 130764   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Harmothoe glabra</i>            | 571832   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Harmothoe impar</i>             | 130770   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Lepidonotus squamatus</i>       | 130801   | 1  | 1  | E   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| Malmgrenia                         | 147006   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Malmgrenia andreapolis</i>      | 147008   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| Malmgreniella                      | 129499   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Malmgreniella arenicolae</i>    | 130810   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Malmgreniella castanea</i>      | 130811   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Malmgreniella darbouxi</i>      | 130812   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Malmgreniella lilianae</i>      | 130814   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Malmgreniella jungmani</i>      | 130815   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Malmgreniella lunulata</i>      | 130816   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Malmgreniella mcintoshii</i>    | 130818   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Malmgreniella polypapillata</i> | 236712   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| Polynoidae                         | 939      | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| Polynoinae                         | 155091   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Polynoidae     |
| <i>Labioleanira yhleni</i>         | 131067   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Sigalionidae   |
| <i>Neoleanira tetragona</i>        | 131069   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Sigalionidae   |
| <i>Sigalion mathildae</i>          | 131072   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Sigalionidae   |
| Sigalionidae                       | 943      | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Sigalionidae   |
| Sthenelais                         | 129595   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Sigalionidae   |
| <i>Sthenelais boa</i>              | 131074   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Sigalionidae   |
| <i>Sthenelais limicola</i>         | 131077   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Sigalionidae   |
| <i>Ephesiella abyssorum</i>        | 131081   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Sphaerodoridae |
| <i>Sphaerodorum gracilis</i>       | 131100   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Sphaerodoridae |
| <i>Erinaceusyllis erinaceus</i>    | 195953   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae       |
| <i>Eurusyllis tuberculata</i>      | 131288   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae       |
| <i>Eusyllis assimilis</i>          | 131289   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae       |
| <i>Eusyllis blomstrandii</i>       | 131290   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae       |
| <i>Exogone (Exogone) naidina</i>   | 131304   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae       |
| <i>Exogone (Exogone) verugera</i>  | 131307   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae       |

Table 1. Continued.

| Scientific Name                               | Aphia ID | Ri | Mi | Fti | Phylum   | Class      | Order        | Family        |
|---|----------|----|----|-----|----------|------------|--------------|---------------|
| <i>Exogone (Parexogone) hebes</i>             | 131302   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| Myrianida                                     | 129659   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Myrianida prolifera</i>                    | 238200   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Odontosyllis ctenostoma</i>                | 131325   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Odontosyllis gibba</i>                     | 131328   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| Pionosyllis                                   | 129669   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| Proceraea                                     | 129671   | 2  | 2  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Prosphaerosyllis tetralix</i>              | 195980   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Sphaerosyllis bulbosa</i>                  | 131379   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Sphaerosyllis hystrix</i>                  | 131388   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Sphaerosyllis taylori</i>                  | 131394   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Streptodonta pterochaeta</i>               | 238207   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Streptosyllis websteri</i>                 | 131402   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| Syllidae                                      | 948      | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Syllides benedicti</i>                     | 131405   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| Syllis  | 129680   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Syllis armillarlis</i>                     | 131415   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Syllis cornuta</i>                         | 157583   | 4  | 3  | B   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Syllis gracilis</i>                        | 131435   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Syllis hyalina</i>                         | 131436   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Syllis prolifera</i>                       | 131452   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Trypanosyllis (Trypanosyllis) coeliaca</i> | 335151   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Trypanosyllis zebra</i>                    | 131467   | 2  | 3  | S   | Annelida | Polychaeta | Phyllodocida | Syllidae      |
| <i>Tomopteris (Johnstonella) helgolandica</i> | 334946   | 1  | 2  | E   | Annelida | Polychaeta | Phyllodocida | Tomopteridae  |
| <i>Galathowenia oculata</i>                   | 146950   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Oweniidae     |
| Myriochele                                    | 129426   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Oweniidae     |
| <i>Myriochele heeri</i>                       | 130542   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Oweniidae     |
| <i>Owenia fusiformis</i>                      | 130544   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Oweniidae     |
| Oweniidae                                     | 975      | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Oweniidae     |
| <i>Sabellaria spinulosa</i>                   | 130867   | 1  | 1  | E   | Annelida | Polychaeta | Sabellida    | Sabellariidae |
| Sabellariidae                                 | 979      | 1  | 1  | E   | Annelida | Polychaeta | Sabellida    | Sabellariidae |
| <i>Branchiomma bombyx</i>                     | 130878   | 2  | 2  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| Chone   | 129525   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Chone acustica</i>                         | 130885   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Chone duneri</i>                           | 130888   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| Euchone                                       | 129528   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Euchone rubrocincta</i>                    | 130909   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Euchone southerni</i>                      | 130910   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Jasmineira candela</i>                     | 130919   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Jasmineira caudata</i>                     | 130920   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Jasmineira elegans</i>                     | 130921   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Paradialychone filicaudata</i>             | 558743   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Potamethus murrayi</i>                     | 416508   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Potamilla reniformis</i>                   | 155389   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |
| <i>Pseudopotamilla reniformis</i>             | 130963   | 2  | 1  | S   | Annelida | Polychaeta | Sabellida    | Sabellidae    |



Table 1. Continued.

| Scientific Name                   | Aphia ID | Ri | Mi | Fti   | Phylum   | Class      | Order     | Family           |
|-----------------------------------|----------|----|----|-------|----------|------------|-----------|------------------|
| <i>Sabella pavonina</i>           | 130967   | 2  | 1  | S     | Annelida | Polychaeta | Sabellida | Sabellidae       |
| Sabellidae                        | 985      | 2  | 1  | S     | Annelida | Polychaeta | Sabellida | Sabellidae       |
| Apistobranchus                    | 129198   | 2  | 3  | S     | Annelida | Polychaeta | Spionida  | Apistobranchidae |
| <i>Apistobranchus tenuis</i>      | 129850   | 2  | 3  | S     | Annelida | Polychaeta | Spionida  | Apistobranchidae |
| <i>Apistobranchus tullbergi</i>   | 129851   | 2  | 3  | S     | Annelida | Polychaeta | Spionida  | Apistobranchidae |
| Chaetopteridae                    | 918      | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Chaetopteridae   |
| <i>Chaetopterus variopedatus</i>  | 129914   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Chaetopteridae   |
| <i>Spiochaetopterus costarum</i>  | 129922   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Chaetopteridae   |
| <i>Spiochaetopterus typicus</i>   | 129924   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Chaetopteridae   |
| Magelona                          | 129341   | 2  | 2  | S     | Annelida | Polychaeta | Spionida  | Magelonidae      |
| <i>Magelona alleni</i>            | 130266   | 2  | 1  | S     | Annelida | Polychaeta | Spionida  | Magelonidae      |
| <i>Magelona filiformis</i>        | 130268   | 2  | 2  | S     | Annelida | Polychaeta | Spionida  | Magelonidae      |
| <i>Magelona johnstoni</i>         | 130269   | 2  | 2  | S     | Annelida | Polychaeta | Spionida  | Magelonidae      |
| <i>Magelona minuta</i>            | 130270   | 2  | 2  | S     | Annelida | Polychaeta | Spionida  | Magelonidae      |
| <i>Magelona mirabilis</i>         | 130271   | 2  | 2  | S     | Annelida | Polychaeta | Spionida  | Magelonidae      |
| Magelonidae                       | 914      | 2  | 2  | S     | Annelida | Polychaeta | Spionida  | Magelonidae      |
| Poecilochaetidae                  | 916      | 2  | 2  | S     | Annelida | Polychaeta | Spionida  | Poecilochaetidae |
| <i>Poecilochaetus serpens</i>     | 130711   | 2  | 2  | S     | Annelida | Polychaeta | Spionida  | Poecilochaetidae |
| Aonides                           | 129605   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Aonides oxycephala</i>         | 131106   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Aonides paucibranchiata</i>    | 131107   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Aurospio banyulensis</i>       | 146532   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Dipolydora caulleryi</i>       | 131116   | 4  | 3  | B     | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Dipolydora coeca</i>           | 131117   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Dipolydora socialis</i>        | 131124   | 4  | 3  | B     | Annelida | Polychaeta | Spionida  | Spionidae        |
| Laonice                           | 129613   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Laonice bahusiensis</i>        | 131127   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Laonice cirrata</i>            | 131128   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Laonice sarsi</i>              | 131129   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Malacoceros fuliginosus</i>    | 131131   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Microspio atlantica</i>        | 131137   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Minuspio cirrifera</i>         | 152392   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Parapriospio pinnata</i>       | 131140   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Paraspio decorata</i>          | 334397   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| Polydora                          | 129619   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Polydora ciliata</i>           | 131141   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Polydora cornuta</i>           | 131143   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| Prionospio                        | 129620   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Prionospio caspersi</i>        | 131152   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Prionospio cirrifera</i>       | 131153   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Prionospio dubia</i>           | 131155   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Prionospio ehlersi</i>         | 131156   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Prionospio fallax</i>          | 131157   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Prionospio malmgreni</i>       | 131159   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Prionospio multibranchiata</i> | 131160   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Prionospio saldanha</i>        | 338540   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |
| <i>Prionospio sexoculata</i>      | 131163   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida  | Spionidae        |

Table 1. Continued.

| Scientific Name                         | Aphia ID | Ri | Mi | Fti   | Phylum   | Class      | Order       | Family       |
|---|----------|----|----|-------|----------|------------|-------------|--------------|
| <i>Prionospio steenstrupi</i>           | 131164   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Pseudopolydora antennata</i>         | 131166   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Pseudopolydora paucibranchiata</i>   | 131168   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Pseudopolydora pulchra</i>           | 131169   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Pygospio elegans</i>                 | 131170   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Scolelepis</i>                       | 129623   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Scolelepis (Scolelepis) foliosa</i>  | 334741   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Scolelepis (Scolelepis) squamata</i> | 157566   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Scolelepis bonnierii</i>             | 131171   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Scolelepis korsunoi</i>              | 131174   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Scolelepis tridentata</i>            | 131178   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spio</i>                             | 129625   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spio armata</i>                      | 131180   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spio filicornis</i>                  | 131183   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spio goniocephala</i>                | 131184   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spio martinensis</i>                 | 131185   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spio multioculata</i>                | 131186   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| Spionidae                               | 913      | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spiophanes</i>                       | 129626   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spiophanes bombyx</i>                | 131187   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spiophanes kroyeri</i>               | 131188   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Spiophanes wigleyi</i>               | 131190   | 3  | 1  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Streblospio benedicti</i>            | 131191   | 3  | 2  | UC/DC | Annelida | Polychaeta | Spionida    | Spionidae    |
| <i>Macrochaeta clavicornis</i>          | 129745   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Acrocirridae |
| <i>Macrochaeta helgolandica</i>         | 129746   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Acrocirridae |
| <i>Ampharete</i>                        | 129155   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Ampharete acutifrons</i>             | 129775   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Ampharete baltica</i>                | 129776   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Ampharete falcata</i>                | 129777   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Ampharete finmarchica</i>            | 129778   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Ampharete grubei</i>                 | 152272   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| Ampharetidae                            | 981      | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Amphicteis gunneri</i>               | 129784   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Amphicteis midas</i>                 | 129785   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Amythasides macroglossus</i>         | 129788   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Anobothrus gracilis</i>              | 129789   | 3  | 1  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Melinna cristata</i>                 | 129804   | 3  | 1  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Melinna elisabethae</i>              | 129805   | 3  | 1  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Melinna palmata</i>                  | 129808   | 3  | 1  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Mugga wahrbergi</i>                  | 129813   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Pterolysippe vanelli</i>             | 334692   | 3  | 1  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Samytha sexcirrata</i>               | 129819   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Sosane sulcata</i>                   | 129821   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Ampharetidae |
| <i>Aphelochoaeta</i>                    | 129240   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae |
| <i>Aphelochoaeta filiformis</i>         | 129937   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae |
| <i>Aphelochoaeta marioni</i>            | 129938   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae |
| <i>Caulleriella</i>                     | 129241   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae |

Table 1. Continued.

| Scientific Name                         | Aphia ID | Ri | Mi | Fti   | Phylum   | Class      | Order       | Family          |
|---|----------|----|----|-------|----------|------------|-------------|-----------------|
| <i>Caulleriella alata</i>               | 129943   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Caulleriella bioculata</i>           | 129944   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Caulleriella killariensis</i>        | 129945   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Caulleriella zetlandica</i>          | 129948   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Caulleriella zetlandica</i>          | 129948   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| Chaetozone                              | 129242   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Chaetozone christiei</i>             | 152217   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Chaetozone gibber</i>                | 129953   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Chaetozone setosa</i>                | 129955   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| Cirratulidae                            | 919      | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| Cirratulus                              | 129243   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Cirratulus caudatus</i>              | 129957   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Cirriformia tentaculata</i>          | 129964   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Monticellina dorsobranchialis</i>    | 129972   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| <i>Monticellina heterochaeta</i>        | 129973   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| Tharyx                                  | 129249   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Cirratulidae    |
| Fauveliopsis                            | 129288   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Fauveliopsidae  |
| <i>Brada villosa</i>                    | 130099   | 3  | 2  | UC/DC | Annelida | Polychaeta | Terebellida | Flabelligeridae |
| <i>Diplocirrus glaucus</i>              | 130100   | 3  | 2  | UC    | Annelida | Polychaeta | Terebellida | Flabelligeridae |
| Flabelligeridae                         | 976      | 3  | 2  | UC    | Annelida | Polychaeta | Terebellida | Flabelligeridae |
| <i>Pherusa monilifera</i>               | 130112   | 3  | 2  | UC    | Annelida | Polychaeta | Terebellida | Flabelligeridae |
| <i>Pherusa plumosa</i>                  | 130113   | 3  | 2  | UC    | Annelida | Polychaeta | Terebellida | Flabelligeridae |
| <i>Amphictene auricoma</i>              | 152448   | 3  | 1  | UC    | Annelida | Polychaeta | Terebellida | Pectinariidae   |
| <i>Lagis koreni</i>                     | 152367   | 3  | 1  | UC    | Annelida | Polychaeta | Terebellida | Pectinariidae   |
| Pectinaria                              | 129437   | 3  | 1  | UC    | Annelida | Polychaeta | Terebellida | Pectinariidae   |
| <i>Pectinaria (Amphictene) auricoma</i> | 130590   | 3  | 1  | UC    | Annelida | Polychaeta | Terebellida | Pectinariidae   |
| Pectinariidae                           | 980      | 3  | 1  | UC    | Annelida | Polychaeta | Terebellida | Pectinariidae   |
| <i>Sternaspis scutata</i>               | 131242   | 4  | 3  | B     | Annelida | Polychaeta | Terebellida | Sternaspidae    |
| <i>Amaeana trilobata</i>                | 131471   | 3  | 1  | UC/DC | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Axonice maculata</i>                 | 131484   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Eupolymnia nesidensis</i>            | 131490   | 1  | 1  | E     | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Hauchiella tribullata</i>            | 152389   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| Lanice                                  | 129697   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Lanice conchilega</i>                | 131495   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Lysilla loveni</i>                   | 131500   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Neoamphitrite affinis</i>            | 131502   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Nicolea zostericola</i>              | 131508   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Paramphitrite birulai</i>            | 152454   | 2  | 2  | S     | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Phisidia aurea</i>                   | 131513   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Pista cristata</i>                   | 131516   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Pista lornensis</i>                  | 154972   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Pistella lornensis</i>               | 131522   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| Polycirrus                              | 129710   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Polycirrus medusa</i>                | 131531   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Streblosoma bairdi</i>               | 131538   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Streblosoma intestinale</i>          | 131540   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| Terebella                               | 129713   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| Terebellidae                            | 982      | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Thelepus cincinnatus</i>             | 131543   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |
| <i>Thelepus setosus</i>                 | 131544   | 3  | 1  | DC    | Annelida | Polychaeta | Terebellida | Terebellidae    |

Table 1. Continued.

| Scientific Name                      | Aphia ID | Ri | Mi | Fti | Phylum   | Class      | Order       | Family           |
|--------------------------------------|----------|----|----|-----|----------|------------|-------------|------------------|
| <i>Terebellides stroemii</i>         | 131573   | 3  | 1  | DC  | Annelida | Polychaeta | Terebellida | Trichobranchidae |
| <i>Trichobranchidae</i>              | 983      | 3  | 1  | DC  | Annelida | Polychaeta | Terebellida | Trichobranchidae |
| <i>Trichobranchus glacialis</i>      | 131574   | 3  | 1  | DC  | Annelida | Polychaeta | Terebellida | Trichobranchidae |
| <i>Trichobranchus roseus</i>         | 131575   | 3  | 1  | DC  | Annelida | Polychaeta | Terebellida | Trichobranchidae |
| <i>Arenicolides</i>                  | 129207   | 3  | 2  | UC  | Annelida | Polychaeta |             | Arenicolidae     |
| <i>Capitella</i>                     | 129211   | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Capitella capitata</i>            | 129876   | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Capitella minima</i>              | 129879   | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Capitellidae</i>                  | 921      | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Heteromastus filiformis</i>       | 129884   | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Mediomastus fragilis</i>          | 129892   | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Notomastus</i>                    | 129220   | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Notomastus latericeus</i>         | 129898   | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Peresiella clymenoides</i>        | 129906   | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Pseudoleiocapitella</i>           | 129226   | 3  | 2  | UC  | Annelida | Polychaeta |             | Capitellidae     |
| <i>Cossuridae</i>                    | 908      | 2  | 3  | S   | Annelida | Polychaeta |             | Cossuridae       |
| <i>Asychis biceps</i>                | 146523   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Clymenella torquata</i>           | 130279   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Clymenura</i>                     | 129346   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Euclymene droebachiensis</i>      | 130291   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Euclymene lombricoides</i>        | 209899   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Euclymene oerstedii</i>           | 130294   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Heteroclymene robusta</i>         | 146978   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Johnstonia clymenoides</i>        | 130298   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Macroclymene santandarensis</i>   | 130301   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Maldanidae</i>                    | 923      | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Notoproctus</i>                   | 129358   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Praxillella affinis</i>           | 130322   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Praxillella gracilis</i>          | 130324   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Rhodine gracilior</i>             | 130330   | 3  | 1  | UC  | Annelida | Polychaeta |             | Maldanidae       |
| <i>Euzonus flabelligerus</i>         | 130487   | 4  | 3  | B   | Annelida | Polychaeta |             | Opheliidae       |
| <i>Ophelia limacina</i>              | 130494   | 4  | 3  | B   | Annelida | Polychaeta |             | Opheliidae       |
| <i>Opheliidae</i>                    | 924      | 4  | 3  | B   | Annelida | Polychaeta |             | Opheliidae       |
| <i>Ophelina acuminata</i>            | 130500   | 4  | 3  | B   | Annelida | Polychaeta |             | Opheliidae       |
| <i>Polyophthalmus pictus</i>         | 130510   | 4  | 3  | B   | Annelida | Polychaeta |             | Opheliidae       |
| <i>Orbinia (Orbinia) sertulata</i>   | 334310   | 4  | 3  | B   | Annelida | Polychaeta |             | Orbiniidae       |
| <i>Orbiniidae</i>                    | 902      | 4  | 3  | B   | Annelida | Polychaeta |             | Orbiniidae       |
| <i>Scoloplos</i>                     | 129425   | 4  | 3  | B   | Annelida | Polychaeta |             | Orbiniidae       |
| <i>Scoloplos (Scoloplos) armiger</i> | 334772   | 4  | 3  | B   | Annelida | Polychaeta |             | Orbiniidae       |
| <i>Aedicira mediterranea</i>         | 130546   | 2  | 3  | S   | Annelida | Polychaeta |             | Paraonidae       |
| <i>Aricidea</i>                      | 129430   | 2  | 3  | S   | Annelida | Polychaeta |             | Paraonidae       |
| <i>Aricidea (Acmira) catherinae</i>  | 333034   | 2  | 3  | S   | Annelida | Polychaeta |             | Paraonidae       |
| <i>Aricidea (Acmira) cerrutii</i>    | 525497   | 2  | 3  | S   | Annelida | Polychaeta |             | Paraonidae       |
| <i>Aricidea (Acmira) lopezi</i>      | 333036   | 2  | 3  | S   | Annelida | Polychaeta |             | Paraonidae       |

Table 1. Continued.

| Scientific Name                        | Aphia ID | Ri | Mi | Fti | Phylum     | Class        | Order     | Family           |
|--|----------|----|----|-----|------------|--------------|-----------|------------------|
| <i>Aricidea minuta</i>                 | 130564   | 2  | 3  | S   | Annelida   | Polychaeta   |           | Paraonidae       |
| <i>Cirrophorus<br/>branchiatus</i>     | 130576   | 2  | 3  | S   | Annelida   | Polychaeta   |           | Paraonidae       |
| <i>Levinsenia gracilis</i>             | 130578   | 2  | 3  | S   | Annelida   | Polychaeta   |           | Paraonidae       |
| <i>Paradoneis lyra</i>                 | 130585   | 2  | 3  | S   | Annelida   | Polychaeta   |           | Paraonidae       |
| Paraonidae                             | 903      | 2  | 3  | S   | Annelida   | Polychaeta   |           | Paraonidae       |
| <i>Polygordius<br/>appendiculatus</i>  | 130712   | 2  | 2  | S   | Annelida   | Polychaeta   |           | Polygordiidae    |
| <i>Polygordius lacteus</i>             | 130714   | 2  | 2  | S   | Annelida   | Polychaeta   |           | Polygordiidae    |
| Protodriloides                         | 129513   | 2  | 2  | S   | Annelida   | Polychaeta   |           | Protodriloididae |
| <i>Asclerocheilus<br/>intermedius</i>  | 130974   | 4  | 4  | B   | Annelida   | Polychaeta   |           | Scalibregmatidae |
| <i>Scalibregma celticum</i>            | 130979   | 4  | 4  | B   | Annelida   | Polychaeta   |           | Scalibregmatidae |
| <i>Scalibregma inflatum</i>            | 130980   | 4  | 4  | B   | Annelida   | Polychaeta   |           | Scalibregmatidae |
| Scalibregmatidae                       | 925      | 4  | 4  | B   | Annelida   | Polychaeta   |           | Scalibregmatidae |
| Acidostoma                             | 101586   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Acidostomatidae  |
| Ampelisca                              | 101445   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca armoricana</i>            | 101888   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca brevicornis</i>           | 101891   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca diadema</i>               | 101896   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca gibba</i>                 | 101898   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca<br/>macrocephala</i>      | 101908   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca sarsi</i>                 | 101923   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca spinipes</i>              | 101928   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca tenuicornis</i>           | 101930   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca typica</i>                | 101933   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Ampelisca vervecei</i>              | 101937   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| Byblis                                 | 101446   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Haploops tubicola</i>               | 101958   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ampeliscidae     |
| <i>Amphilochoides<br/>boeckii</i>      | 101960   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Amphiloichidae   |
| <i>Amphilochoides<br/>serratifipes</i> | 101963   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Amphiloichidae   |
| <i>Amphilocheus<br/>manudens</i>       | 101967   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Amphiloichidae   |
| <i>Amphilocheus<br/>neapolitanus</i>   | 101968   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Amphiloichidae   |
| <i>Gitana sarsi</i>                    | 101977   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Amphiloichidae   |
| <i>Paramphilochoides<br/>odontonyx</i> | 101982   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Amphiloichidae   |
| <i>Ampithoe ramondi</i>                | 102000   | 1  | 1  | E   | Arthropoda | Malacostraca | Amphipoda | Ampithoidae      |
| <i>Aora gracilis</i>                   | 102012   | 1  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Aoridae          |
| <i>Aora typica</i>                     | 146895   | 1  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Aoridae          |
| Aoridae                                | 101368   | 1  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Aoridae          |
| <i>Autonoe longipes</i>                | 102021   | 1  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Aoridae          |
| Microdeutopus                          | 101471   | 1  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Aoridae          |
| <i>Argissa hamatipes</i>               | 102064   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Argissidae       |
| Atylus                                 | 101497   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Atylidae         |
| <i>Atylus guttatus</i>                 | 102127   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Atylidae         |
| <i>Atylus swammerdami</i>              | 102131   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Atylidae         |
| <i>Atylus vedlomensis</i>              | 102132   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Atylidae         |
| <i>Nototropis falcatus</i>             | 102139   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Atylidae         |
| Apherusa                               | 101509   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Calliopiidae     |
| <i>Apherusa bispinosa</i>              | 102160   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Calliopiidae     |
| <i>Apherusa clevei</i>                 | 102164   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Calliopiidae     |



Table 1. Continued.

| Scientific Name                                 | Aphia ID | Ri | Mi | Fti | Phylum     | Class        | Order     | Family         |
|---|----------|----|----|-----|------------|--------------|-----------|----------------|
| <i>Apherusa jurinei</i>                         | 102168   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Calliopiidae   |
| <i>Apherusa ovalipes</i>                        | 102172   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Calliopiidae   |
| <i>Caprella acanthifera</i>                     | 101822   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Caprellidae    |
| <i>Caprella linearis</i>                        | 101839   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Caprellidae    |
| <i>Pariambus typicus</i>                        | 101857   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Caprellidae    |
| <i>Parvipalpus capillaceus</i>                  | 101858   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Caprellidae    |
| <i>Phtisica marina</i>                          | 101864   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Caprellidae    |
| <i>Pseudoprotella phasma</i>                    | 101871   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Caprellidae    |
| <i>Cheirocratus</i>                             | 101669   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Cheirocratidae |
| <i>Cheirocratus intermedius</i>                 | 102795   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Cheirocratidae |
| <i>Cheirocratus sundevalli</i>                  | 102798   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Cheirocratidae |
| <i>Apocorophium lacustre</i>                    | 148594   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Corophium</i>                                | 101489   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Crassicorophium bonellii</i>                 | 237004   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Leptocheirus</i>                             | 101470   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Leptocheirus hirsutimanus</i>                | 102036   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Leptocheirus mariae</i>                      | 102038   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Leptocheirus pectinatus</i>                  | 102039   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Leptocheirus tricristatus</i>                | 102041   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Medicorophium affine</i>                     | 423507   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Monocorophium acherusicum</i>                | 225814   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Monocorophium insidiosum</i>                 | 148592   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Monocorophium sextonae</i>                   | 148603   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Protomeidea</i>                              | 101574   | 2  | 4  | S   | Arthropoda | Malacostraca | Amphipoda | Coropiidae     |
| <i>Peltocoxa brevisrostris</i>                  | 101983   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Cyproideidae   |
| <i>Dexamine</i>                                 | 101498   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Dexaminidae    |
| <i>Dexamine spinosa</i>                         | 102135   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Dexaminidae    |
| <i>Guernea (Guernea) coalita</i>                | 102137   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Dexaminidae    |
| <i>Tritaeta gibbosa</i>                         | 102141   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Dexaminidae    |
| <i>Dyopedos</i>                                 | 101736   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Dulichiiidae   |
| <i>Dyopedos monacantha</i>                      | 103042   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Dulichiiidae   |
| <i>Eusirus longipes</i>                         | 102202   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Eusiridae      |
| <i>Haustorius arenarius</i>                     | 102317   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Haustoriidae   |
| <i>Hyperia galba</i>                            | 103251   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Hyperiididae   |
| <i>Iphimedia</i>                                | 101554   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Iphimediidae   |
| <i>Iphimedia minuta</i>                         | 102345   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Iphimediidae   |
| <i>Iphimedia obesa</i>                          | 102347   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Iphimediidae   |
| <i>Ericthonius punctatus</i>                    | 102408   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ischyroceridae |
| <i>Jassa falcata</i>                            | 102431   | 1  | 1  | E   | Arthropoda | Malacostraca | Amphipoda | Ischyroceridae |
| <i>Siphonocetes (Centraloecetes) kroyeranus</i> | 102111   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ischyroceridae |

Table 1. Continued.

| Scientific Name  | Aphia ID | Ri | Mi | Fti | Phylum     | Class        | Order     | Family             |
|--|----------|----|----|-----|------------|--------------|-----------|--------------------|
| <i>Siphonoecetes</i><br>( <i>Centraloecetes</i> )<br><i>neapolitanus</i> | 102112   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ischyroceridae     |
| <i>Siphonoecetes</i><br>( <i>Centraloecetes</i> )<br><i>striatus</i>     | 102115   | 1  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Ischyroceridae     |
| <i>Leucothoe incisa</i>  | 102460   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Leucothoidae       |
| <i>Leucothoe liljeborgi</i>  | 102462   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Leucothoidae       |
| <i>Leucothoe richiardi</i>   | 212784   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Leucothoidae       |
| <i>Leucothoe spinicarpa</i>  | 102470   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Leucothoidae       |
| Liljeborgia  | 101582   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Liljeborgiidae     |
| <i>Liljeborgia kinahani</i>  | 102483   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Liljeborgiidae     |
| <i>Liljeborgia pallida</i>   | 102485   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Liljeborgiidae     |
| <i>Liljeborgia psaltrica</i>   | 102486   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Liljeborgiidae     |
| <i>Listriella mollis</i>   | 102488   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Liljeborgiidae     |
| <i>Hippomedon</i><br><i>bidentatus</i>                                   | 102569   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| <i>Hippomedon</i><br><i>denticulatus</i>                                 | 102570   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| <i>Hippomedon</i><br><i>massiliensis</i>                                 | 102576   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| <i>Lepidepcreum</i><br><i>longicornis</i>                                | 102599   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| Lysianassidae  | 101395   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| <i>Orchomene humilis</i>   | 102665   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| <i>Orchomenella nana</i>   | 102691   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| <i>Tryphosella sarsi</i>   | 102771   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| <i>Tryphosella similima</i>  | 102773   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| <i>Tryphosites longipes</i>  | 102779   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae      |
| <i>Acidostoma</i><br><i>nodiferum</i>                                    | 102496   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae s.l. |
| <i>Acidostoma obesum</i>   | 102497   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Lysianassidae s.l. |
| <i>Animoceradocus</i><br><i>semiserratus</i>                             | 531364   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Maeridae           |
| Maera  | 101675   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Maeridae           |
| <i>Maera grossimana</i>  | 102815   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Maeridae           |
| <i>Maera loveni</i>  | 102820   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Maeridae           |
| <i>Maera schmidti</i>  | 102826   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Maeridae           |
| <i>Othomaera othonis</i>   | 534781   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Maeridae           |
| <i>Megaluropus agilis</i>  | 102783   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Megaluropidae      |
| <i>Abludomelita</i><br><i>obtusata</i>                                   | 102788   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Melitidae          |
| <i>Eriopisa elongata</i>   | 102807   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Melitidae          |
| <i>Maerella tenuimana</i>  | 102831   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Melitidae          |
| Microprotopus  | 101561   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Microprotopidae    |
| <i>Microprotopus</i><br><i>maculatus</i>                                 | 102380   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Microprotopidae    |
| <i>Odius carinatus</i>   | 102861   | 1  | 3  | E   | Arthropoda | Malacostraca | Amphipoda | Odiidae            |
| <i>Deflexilodes acutipes</i>   | 236538   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae      |
| <i>Deflexilodes gibbosus</i>   | 236539   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae      |
| <i>Monoculodes</i><br><i>carinatus</i>                                   | 102882   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae      |
| <i>Periculodes</i><br><i>longimanus</i>                                  | 102915   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae      |
| <i>Pontocrates</i><br><i>altamarinus</i>                                 | 102916   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae      |

Table 1. Continued.

| Scientific Name                         | Aphia ID | Ri | Mi | Fti | Phylum     | Class        | Order     | Family           |
|---|----------|----|----|-----|------------|--------------|-----------|------------------|
| <i>Pontocrates arenarius</i>            | 102918   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae    |
| <i>Synchelidium haplocheles</i>         | 102924   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae    |
| <i>Synchelidium maculatum</i>           | 102928   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae    |
| <i>Westwoodilla caecula</i>             | 102932   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae    |
| <i>Westwoodilla rectirostris</i>        | 102937   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Oedicerotidae    |
| <i>Gammaropsis cornuta</i>              | 148545   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Photidae         |
| <i>Gammaropsis maculata</i>             | 102364   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Photidae         |
| <i>Gammaropsis nitida</i>               | 102367   | 1  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Photidae         |
| <i>Gammaropsis palmata</i>              | 102369   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Photidae         |
| <i>Gammaropsis sophiae</i>              | 102371   | 2  | 2  | S   | Arthropoda | Malacostraca | Amphipoda | Photidae         |
| <i>Megamphopus cornutus</i>             | 102377   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Photidae         |
| <i>Photis longicaudata</i>              | 102383   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Photidae         |
| <i>Photis reinhardi</i>                 | 102387   | 2  | 1  | S   | Arthropoda | Malacostraca | Amphipoda | Photidae         |
| Harpinia                                | 101716   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Harpinia agna</i>                    | 102957   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Harpinia ala</i>                     | 102958   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Harpinia antennaria</i>              | 102960   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Harpinia crenulata</i>               | 102963   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Harpinia dellavallei</i>             | 102966   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Harpinia pectinata</i>               | 102972   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Harpinia plumosa</i>                 | 102973   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| Metaphoxus                              | 101720   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Metaphoxus pectinatus</i>            | 102983   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Parametaphoxus tulearensis</i>       | 549079   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| <i>Phoxocephalus holbolli</i>           | 102989   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae  |
| Pleustidae                              | 101404   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Pleustidae       |
| Bathyporeia                             | 101742   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Pontoporeiidae   |
| <i>Bathyporeia elegans</i>              | 103058   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Pontoporeiidae   |
| <i>Bathyporeia guilliamsoniana</i>      | 103060   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Pontoporeiidae   |
| <i>Bathyporeia nana</i>                 | 103064   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Pontoporeiidae   |
| <i>Bathyporeia pelagica</i>             | 103066   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Pontoporeiidae   |
| <i>Bathyporeia pilosa</i>               | 103068   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Pontoporeiidae   |
| <i>Bathyporeia sarsi</i>                | 103073   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Pontoporeiidae   |
| <i>Bathyporeia tenuipes</i>             | 103076   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Pontoporeiidae   |
| <i>Scopelocheirus hopei</i>             | 102720   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Scopelocheiridae |
| <i>Stegocephaloides christianiensis</i> | 103102   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Stegocephalidae  |
| Metopa                                  | 101764   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Stenothoidae     |
| <i>Metopa alderi</i>                    | 103116   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Stenothoidae     |
| <i>Metopa latimana</i>                  | 103125   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Stenothoidae     |
| <i>Stenothoe marina</i>                 | 103166   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Stenothoidae     |
| <i>Austrosyrrhoe fimbriatus</i>         | 103179   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Synopiidae       |
| <i>Unciola crenatipalma</i>             | 102057   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Unciolidae       |
| <i>Unciola planipes</i>                 | 102061   | 2  | 3  | B   | Arthropoda | Malacostraca | Amphipoda | Unciolidae       |
| <i>Tmetonyx cicada</i>                  | 102736   | 2  | 1  | B   | Arthropoda | Malacostraca | Amphipoda | Uristidae        |
| Urothoe                                 | 101789   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Urothoidae       |

Table 1. Continued.

| Scientific Name                           | Aphia ID | Ri | Mi | Fti | Phylum     | Class        | Order     | Family          |
|---|----------|----|----|-----|------------|--------------|-----------|-----------------|
| <i>Urothoe brevicornis</i>                | 103226   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Urothoidae      |
| <i>Urothoe elegans</i>                    | 103228   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Urothoidae      |
| <i>Urothoe marina</i>                     | 103233   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Urothoidae      |
| <i>Urothoe poseidonis</i>                 | 103235   | 2  | 3  | S   | Arthropoda | Malacostraca | Amphipoda | Urothoidae      |
| <i>Bodotria scorpioides</i>               | 110445   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Bodotriidae     |
| Iphinoe                                   | 110391   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Bodotriidae     |
| <i>Iphinoe serrata</i>                    | 110460   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Bodotriidae     |
| <i>Iphinoe tenella</i>                    | 110461   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Bodotriidae     |
| <i>Iphinoe trispinosa</i>                 | 110462   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Bodotriidae     |
| Diastylidae                               | 110380   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| Diastylis                                 | 110398   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| <i>Diastylis bradyi</i>                   | 110472   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| <i>Diastylis cornuta</i>                  | 110474   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| <i>Diastylis laevis</i>                   | 110481   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| <i>Diastylis lucifera</i>                 | 110483   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| <i>Diastylis neapolitana</i>              | 110484   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| <i>Diastylis rathkei</i>                  | 110487   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| <i>Diastylis rugosa</i>                   | 110488   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| <i>Diastylis biplicatus</i>               | 110494   | 2  | 2  | S   | Arthropoda | Malacostraca | Cumacea   | Diastylidae     |
| <i>Hemilamprops roseus</i>                | 110514   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Lampropidae     |
| <i>Lamprops fasciatus</i>                 | 110516   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Lampropidae     |
| <i>Eudorella emarginata</i>               | 110524   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Leuconidae      |
| <i>Eudorella truncatula</i>               | 110535   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Leuconidae      |
| <i>Eudorellopsis deformis</i>             | 110536   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Leuconidae      |
| <i>Leucon (Leucon) nasica</i>             | 110618   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Leuconidae      |
| <i>Cumella (Cumella) pygmaea</i>          | 110567   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Nannastacidae   |
| <i>Nannastacus unguiculatus</i>           | 110574   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Nannastacidae   |
| <i>Monopseudocuma gilsoni</i>             | 422916   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Pseudocumatidae |
| Pseudocuma                                | 110427   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Pseudocumatidae |
| <i>Pseudocuma (Pseudocuma) longicorne</i> | 110627   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Pseudocumatidae |
| <i>Pseudocuma (Pseudocuma) simile</i>     | 110628   | 2  | 3  | S   | Arthropoda | Malacostraca | Cumacea   | Pseudocumatidae |
| <i>Alpheus glaber</i>                     | 107477   | 4  | 4  | B   | Arthropoda | Malacostraca | Decapoda  | Alpheidae       |
| <i>Athanas nitescens</i>                  | 107486   | 2  | 2  | S   | Arthropoda | Malacostraca | Decapoda  | Alpheidae       |
| <i>Aristaeomorpha foliacea</i>            | 158326   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda  | Aristeidae      |
| <i>Atelecyclus rotundatus</i>             | 107273   | 5  | 4  | R   | Arthropoda | Malacostraca | Decapoda  | Atelecyclidae   |
| <i>Calocaris macandreae</i>               | 107726   | 4  | 4  | B   | Arthropoda | Malacostraca | Decapoda  | Axiidae         |
| Callianassa                               | 107072   | 4  | 4  | B   | Arthropoda | Malacostraca | Decapoda  | Callianassidae  |
| <i>Callianassa subterranea</i>            | 107729   | 4  | 4  | B   | Arthropoda | Malacostraca | Decapoda  | Callianassidae  |
| Callianassidae                            | 106800   | 4  | 4  | B   | Arthropoda | Malacostraca | Decapoda  | Callianassidae  |
| <i>Pestarella tyrrhena</i>                | 238027   | 4  | 4  | B   | Arthropoda | Malacostraca | Decapoda  | Callianassidae  |
| <i>Corystes cassivelaunus</i>             | 107277   | 5  | 4  | R   | Arthropoda | Malacostraca | Decapoda  | Corystidae      |
| Crangon                                   | 107007   | 2  | 4  | S   | Arthropoda | Malacostraca | Decapoda  | Crangonidae     |
| <i>Crangon allmanni</i>                   | 107551   | 2  | 4  | S   | Arthropoda | Malacostraca | Decapoda  | Crangonidae     |
| <i>Crangon crangon</i>                    | 107552   | 2  | 4  | S   | Arthropoda | Malacostraca | Decapoda  | Crangonidae     |
| Crangonidae                               | 106782   | 2  | 4  | S   | Arthropoda | Malacostraca | Decapoda  | Crangonidae     |
| <i>Philocheras bispinosus bispinosus</i>  | 108207   | 2  | 4  | S   | Arthropoda | Malacostraca | Decapoda  | Crangonidae     |

Table 1. Continued.

| Scientific Name                  | Aphia ID | Ri | Mi | Fti | Phylum     | Class        | Order    | Family        |
|----------------------------------|----------|----|----|-----|------------|--------------|----------|---------------|
| <i>Philocheirus trispinosus</i>  | 107562   | 2  | 4  | S   | Arthropoda | Malacostraca | Decapoda | Crangonidae   |
| <i>Diogenes pugilator</i>        | 107199   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Diogenidae    |
| Galathea                         | 106834   | 4  | 3  | B   | Arthropoda | Malacostraca | Decapoda | Galatheididae |
| <i>Galathea dispersa</i>         | 107148   | 4  | 3  | B   | Arthropoda | Malacostraca | Decapoda | Galatheididae |
| <i>Galathea intermedia</i>       | 107150   | 4  | 3  | B   | Arthropoda | Malacostraca | Decapoda | Galatheididae |
| <i>Eualus cranchii</i>           | 156083   | 2  | 4  | S   | Arthropoda | Malacostraca | Decapoda | Hippolytidae  |
| Inachus                          | 106905   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Inachidae     |
| <i>Inachus dorsettensis</i>      | 107327   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Inachidae     |
| Macropodia                       | 205077   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Inachidae     |
| <i>Macropodia deflexa</i>        | 107338   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Inachidae     |
| <i>Macropodia rostrata</i>       | 107345   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Inachidae     |
| <i>Jaxea nocturna</i>            | 107737   | 4  | 4  | B   | Arthropoda | Malacostraca | Decapoda | Laomeidiidae  |
| Ebalia                           | 106889   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Leucosiidae   |
| <i>Ebalia cranchii</i>           | 107294   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Leucosiidae   |
| <i>Ebalia granulosa</i>          | 107298   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Leucosiidae   |
| <i>Ebalia tuberosa</i>           | 107301   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Leucosiidae   |
| <i>Nephrops norvegicus</i>       | 107254   | 4  | 4  | B   | Arthropoda | Malacostraca | Decapoda | Nephropidae   |
| Anapagurus                       | 106849   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Paguridae     |
| <i>Anapagurus bicorniger</i>     | 107213   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Paguridae     |
| <i>Anapagurus laevis</i>         | 107218   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Paguridae     |
| Paguridae                        | 106738   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Paguridae     |
| Pagurus                          | 106854   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Paguridae     |
| <i>Pagurus bernhardus</i>        | 107232   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Paguridae     |
| <i>Pagurus cuanensis</i>         | 107235   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Paguridae     |
| <i>Palaemon elegans</i>          | 107614   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Palaemonidae  |
| <i>Pandalus montagui</i>         | 107651   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Pandalidae    |
| <i>Pilumnus hirtellus</i>        | 107418   | 2  | 3  | S   | Arthropoda | Malacostraca | Decapoda | Pilumnidae    |
| Liocarcinus                      | 106925   | 5  | 4  | R   | Arthropoda | Malacostraca | Decapoda | Polybiidae    |
| <i>Liocarcinus depurator</i>     | 107387   | 5  | 4  | R   | Arthropoda | Malacostraca | Decapoda | Polybiidae    |
| <i>Liocarcinus holsatus</i>      | 107388   | 5  | 4  | R   | Arthropoda | Malacostraca | Decapoda | Polybiidae    |
| <i>Liocarcinus marmoreus</i>     | 107390   | 5  | 4  | R   | Arthropoda | Malacostraca | Decapoda | Polybiidae    |
| <i>Liocarcinus navigator</i>     | 107392   | 5  | 4  | R   | Arthropoda | Malacostraca | Decapoda | Polybiidae    |
| <i>Liocarcinus pusillus</i>      | 107393   | 5  | 4  | R   | Arthropoda | Malacostraca | Decapoda | Polybiidae    |
| <i>Pisidia longicornis</i>       | 107188   | 1  | 3  | E   | Arthropoda | Malacostraca | Decapoda | Porcellanidae |
| <i>Carcinus maenas</i>           | 107381   | 5  | 4  | R   | Arthropoda | Malacostraca | Decapoda | Portunidae    |
| Processa                         | 107054   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Processidae   |
| <i>Processa acutirostris</i>     | 107681   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Processidae   |
| <i>Processa canaliculata</i>     | 107682   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Processidae   |
| <i>Processa elegantula</i>       | 107684   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Processidae   |
| <i>Processa modica modica</i>    | 108343   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Processidae   |
| <i>Processa noveli holthuisi</i> | 108344   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Processidae   |
| <i>Solenocera membranacea</i>    | 107120   | 1  | 4  | E   | Arthropoda | Malacostraca | Decapoda | Solenoceridae |
| <i>Thia scutellata</i>           | 107281   | 2  | 4  | S   | Arthropoda | Malacostraca | Decapoda | Thiidae       |
| <i>Upogebia deltaura</i>         | 107739   | 3  | 4  | DC  | Arthropoda | Malacostraca | Decapoda | Upogebiidae   |
| <i>Upogebia pusilla</i>          | 107741   | 3  | 4  | DC  | Arthropoda | Malacostraca | Decapoda | Upogebiidae   |
| <i>Upogebia stellata</i>         | 107742   | 3  | 4  | DC  | Arthropoda | Malacostraca | Decapoda | Upogebiidae   |
| Upogebiidae                      | 106803   | 3  | 4  | DC  | Arthropoda | Malacostraca | Decapoda | Upogebiidae   |
| <i>Anthura gracilis</i>          | 118467   | 2  | 2  | S   | Arthropoda | Malacostraca | Isopoda  | Anthuridae    |
| <i>Astacilla longicornis</i>     | 119024   | 4  | 3  | B   | Arthropoda | Malacostraca | Isopoda  | Arcturidae    |
| <i>Cirolana cranchi</i>          | 118839   | 2  | 3  | S   | Arthropoda | Malacostraca | Isopoda  | Cirolanidae   |
| <i>Conilera cylindracea</i>      | 118842   | 1  | 2  | E   | Arthropoda | Malacostraca | Isopoda  | Cirolanidae   |
| <i>Eurydice pulchra</i>          | 118852   | 2  | 3  | S   | Arthropoda | Malacostraca | Isopoda  | Cirolanidae   |
| <i>Eurydice spinigera</i>        | 148637   | 2  | 3  | S   | Arthropoda | Malacostraca | Isopoda  | Cirolanidae   |
| <i>Natatolana borealis</i>       | 118859   | 2  | 3  | S   | Arthropoda | Malacostraca | Isopoda  | Cirolanidae   |



Table 1. Continued.

| Scientific Name  | Aphia ID | Ri | Mi | Fti | Phylum         | Class        | Order           | Family                          |
|--|----------|----|----|-----|----------------|--------------|-----------------|---------------------------------|
| <i>Gnathia maxillaris</i>  | 118994   | 2  | 3  | S   | Arthropoda     | Malacostraca | Isopoda         | Gnathiidae                      |
| <i>Gnathia oxyuraea</i>  | 118995   | 2  | 3  | S   | Arthropoda     | Malacostraca | Isopoda         | Gnathiidae                      |
| Gnathiidae   | 118278   | 2  | 3  | S   | Arthropoda     | Malacostraca | Isopoda         | Gnathiidae                      |
| <i>Paragnathia formica</i>                                       | 119001   | 2  | 3  | S   | Arthropoda     | Malacostraca | Isopoda         | Gnathiidae                      |
| Idotea   | 118454   | 2  | 3  | S   | Arthropoda     | Malacostraca | Isopoda         | Idoteidae                       |
| <i>Janira maculosa</i>   | 118732   | 2  | 3  | S   | Arthropoda     | Malacostraca | Isopoda         | Janiridae                       |
| <i>Sphaeroma serratum</i>  | 118973   | 2  | 3  | S   | Arthropoda     | Malacostraca | Isopoda         | Sphaeromatidae                  |
| <i>Gastrosaccus spinifer</i>                                     | 120020   | 2  | 3  | S   | Arthropoda     | Malacostraca | Mysida          | Mysidae                         |
| <i>Haplostylus normani</i>                                       | 148698   | 1  | 1  | E   | Arthropoda     | Malacostraca | Mysida          | Mysidae                         |
| <i>Nebalia bipes</i>   | 147032   | 1  | 3  | E   | Arthropoda     | Malacostraca | Nebaliacea      | Nebaliidae                      |
| <i>Apeudes spinosus</i>  | 136284   | 2  | 2  | S   | Arthropoda     | Malacostraca | Tanaidacea      | Apeudidae                       |
| <i>Apeudes talpa</i>   | 136285   | 2  | 2  | S   | Arthropoda     | Malacostraca | Tanaidacea      | Apeudidae                       |
| <i>Apeudopsis latreillii</i>                                     | 247077   | 2  | 2  | S   | Arthropoda     | Malacostraca | Tanaidacea      | Apeudidae                       |
| <i>Akanthophoreus gracilis</i>                                   | 136340   | 2  | 2  | S   | Arthropoda     | Malacostraca | Tanaidacea      | Leptognathiidae                 |
| <i>Pseudoparatanaeis batei</i>                                   | 136457   | 2  | 2  | S   | Arthropoda     | Malacostraca | Tanaidacea      | Paratanaoidea<br>incertae sedis |
| <i>Tanaopsis graciloides</i>                                     | 136458   | 2  | 2  | S   | Arthropoda     | Malacostraca | Tanaidacea      | Paratanaoidea<br>incertae sedis |
| <i>Pseudosphyrapus anomalus</i>                                  | 136319   | 2  | 2  | S   | Arthropoda     | Malacostraca | Tanaidacea      | Sphyrapidae                     |
| <i>Tanaissus lilljeborgi</i>                                     | 136486   | 2  | 2  | S   | Arthropoda     | Malacostraca | Tanaidacea      | Tanaissuidae                    |
| Stomatopoda  | 14355    | 4  | 4  | B   | Arthropoda     | Malacostraca |                 |                                 |
| <i>Longipedia coronata</i>                                       | 116368   | 2  | 3  | S   | Arthropoda     | Maxillopoda  | Harpacticoida   | Longipediidae                   |
| <i>Cylindroleberis mariae</i>                                    | 238708   | 2  | 3  | S   | Arthropoda     | Ostracoda    | Myodocopida     | Cylindroleberididae             |
| <i>Philomedes</i><br>( <i>Philomedes</i> )<br><i>lilljeborgi</i> | 128460   | 2  | 4  | S   | Arthropoda     | Ostracoda    | Myodocopida     | Philomedidae                    |
| <i>Philomedes brenda</i>   | 127718   | 2  | 3  | S   | Arthropoda     | Ostracoda    | Myodocopida     | Philomedidae                    |
| Myodocopida  | 2104     | 2  | 3  | S   | Arthropoda     | Ostracoda    | Myodocopida     |                                 |
| <i>Achelia echinata</i>  | 134599   | 2  | 2  | S   | Arthropoda     | Pycnogonida  | Pantopoda       | Ammotheidae                     |
| <i>Callipallene brevisrostris</i>                                | 134643   | 1  | 1  | E   | Arthropoda     | Pycnogonida  | Pantopoda       | Callipallenidae                 |
| <i>Nymphon brevisrostre</i>                                      | 150520   | 1  | 1  | S   | Arthropoda     | Pycnogonida  | Pantopoda       | Nymphonidae                     |
| Anoplodactylus   | 134592   | 1  | 4  | E   | Arthropoda     | Pycnogonida  | Pantopoda       | Phoxichilidiidae                |
| <i>Anoplodactylus petiolatus</i>                                 | 134723   | 1  | 4  | E   | Arthropoda     | Pycnogonida  | Pantopoda       | Phoxichilidiidae                |
| <i>Anoplodactylus virescens</i>                                  | 134730   | 1  | 4  | E   | Arthropoda     | Pycnogonida  | Pantopoda       | Phoxichilidiidae                |
| Pycnogonida  | 1302     | 1  | 4  | E   | Arthropoda     | Pycnogonida  |                 |                                 |
| <i>Priapulus caudatus</i>  | 101160   | 4  | 2  | B   | Cephalorhyncha | Priapulida   |                 | Priapulidae                     |
| <i>Asciidiella aspersa</i>                                       | 103718   | 1  | 1  | E   | Chordata       | Asciidiacea  | Phlebobranchia  | Asciidiidae                     |
| <i>Eugyra arenosa</i>  | 103764   | 2  | 3  | S   | Chordata       | Asciidiacea  | Stolidobranchia | Molgulidae                      |
| Styelidae  | 103450   | 1  | 1  | E   | Chordata       | Asciidiacea  | Stolidobranchia | Styelidae                       |
| <i>Branchiostoma lanceolatum</i>                                 | 104906   | 4  | 3  | B   | Chordata       | Leptocardii  |                 | Branchiostomidae                |
| <i>Actinia equina</i>  | 100803   | 1  | 1  | E   | Cnidaria       | Anthozoa     | Actiniaria      | Actiniidae                      |
| <i>Urticina felina</i>   | 100834   | 1  | 1  | E   | Cnidaria       | Anthozoa     | Actiniaria      | Actiniidae                      |
| Edwardsia  | 100730   | 2  | 2  | S   | Cnidaria       | Anthozoa     | Actiniaria      | Edwardsiidae                    |
| <i>Edwardsia claparedii</i>                                      | 100880   | 2  | 2  | S   | Cnidaria       | Anthozoa     | Actiniaria      | Edwardsiidae                    |
| Edwardsiidae   | 100665   | 2  | 2  | S   | Cnidaria       | Anthozoa     | Actiniaria      | Edwardsiidae                    |
| <i>Scolanthus callimorphus</i>                                   | 100910   | 2  | 2  | S   | Cnidaria       | Anthozoa     | Actiniaria      | Edwardsiidae                    |
| <i>Halcapma chrysanthellum</i>                                   | 100916   | 2  | 2  | S   | Cnidaria       | Anthozoa     | Actiniaria      | Halcampidae                     |
| <i>Calliactis parasitica</i>                                     | 100946   | 2  | 2  | S   | Cnidaria       | Anthozoa     | Actiniaria      | Hormathiidae                    |
| <i>Sagartia troglodytes</i>                                      | 100994   | 1  | 1  | E   | Cnidaria       | Anthozoa     | Actiniaria      | Sagartiidae                     |
| Actiniaria   | 1360     | 2  | 2  | S   | Cnidaria       | Anthozoa     | Actiniaria      |                                 |

Table 1. Continued.

| Scientific Name                          | Aphia ID | Ri | Mi | Fti | Phylum        | Class         | Order           | Family          |
|--|----------|----|----|-----|---------------|---------------|-----------------|-----------------|
| Cerianthus                               | 100782   | 2  | 1  | S   | Cnidaria      | Anthozoa      | Ceriantharia    | Cerianthidae    |
| <i>Cerianthus lloydii</i>                | 283798   | 2  | 1  | S   | Cnidaria      | Anthozoa      | Ceriantharia    | Cerianthidae    |
| <i>Pteroeides griseum</i>                | 181504   | 2  | 2  | S   | Cnidaria      | Anthozoa      | Pennatulacea    | Pennatulidae    |
| <i>Virgularia mirabilis</i>              | 128539   | 2  | 2  | S   | Cnidaria      | Anthozoa      | Pennatulacea    | Virgulariidae   |
| <i>Asterias rubens</i>                   | 123776   | 1  | 3  | E   | Echinodermata | Asteroidea    | Forcipulatida   | Asteriidae      |
| <i>Astropecten irregularis</i>           | 123867   | 2  | 3  | S   | Echinodermata | Asteroidea    | Paxillosida     | Astropectinidae |
| <i>Psammechinus miliaris</i>             | 124319   | 1  | 3  | E   | Echinodermata | Echinoidea    | Camarodonta     | Parechinidae    |
| <i>Echinocyamus pusillus</i>             | 124273   | 2  | 3  | S   | Echinodermata | Echinoidea    | Clypeasteroidea | Echinocyamidae  |
| Echinidea                                | 510534   | 4  | 3  | B   | Echinodermata | Echinoidea    | Echinoida       |                 |
| <i>Brissopsis lyrifera</i>               | 124373   | 4  | 3  | B   | Echinodermata | Echinoidea    | Spatangoida     | Brissidae       |
| Echinocardium                            | 123426   | 4  | 3  | B   | Echinodermata | Echinoidea    | Spatangoida     | Loveniidae      |
| <i>Echinocardium cordatum</i>            | 124392   | 4  | 3  | B   | Echinodermata | Echinoidea    | Spatangoida     | Loveniidae      |
| <i>Echinocardium flavescens</i>          | 124394   | 4  | 3  | B   | Echinodermata | Echinoidea    | Spatangoida     | Loveniidae      |
| <i>Spatangus purpureus</i>               | 124418   | 4  | 3  | B   | Echinodermata | Echinoidea    | Spatangoida     | Spatangidae     |
| Spatangoida                              | 123106   | 4  | 3  | B   | Echinodermata | Echinoidea    | Spatangoida     |                 |
| <i>Labidoplax buskii</i>                 | 124455   | 2  | 3  | S   | Echinodermata | Holothuroidea | Apodida         | Synaptidae      |
| Leptosynapta                             | 123449   | 2  | 3  | S   | Echinodermata | Holothuroidea | Apodida         | Synaptidae      |
| <i>Leptosynapta bergensis</i>            | 124462   | 2  | 3  | S   | Echinodermata | Holothuroidea | Apodida         | Synaptidae      |
| <i>Leptosynapta inhaerens</i>            | 124465   | 2  | 3  | S   | Echinodermata | Holothuroidea | Apodida         | Synaptidae      |
| <i>Oestergrenia digitata</i>             | 152547   | 2  | 3  | S   | Echinodermata | Holothuroidea | Apodida         | Synaptidae      |
| Synaptidae                               | 123182   | 2  | 3  | S   | Echinodermata | Holothuroidea | Apodida         | Synaptidae      |
| Leptopentacta                            | 123481   | 2  | 3  | S   | Echinodermata | Holothuroidea | Dendrochirotida | Cucumariidae    |
| <i>Leptopentacta elongata</i>            | 124635   | 2  | 3  | S   | Echinodermata | Holothuroidea | Dendrochirotida | Cucumariidae    |
| <i>Leptopentacta elongata</i>            | 124635   | 2  | 3  | S   | Echinodermata | Holothuroidea | Dendrochirotida | Cucumariidae    |
| <i>Leptopentacta tergestina</i>          | 124636   | 2  | 3  | S   | Echinodermata | Holothuroidea | Dendrochirotida | Cucumariidae    |
| <i>Thyone fusus</i>                      | 124670   | 2  | 3  | S   | Echinodermata | Holothuroidea | Dendrochirotida | Cucumariidae    |
| <i>Amphilepis norvegica</i>              | 125057   | 4  | 3  | B   | Echinodermata | Ophiuroidea   | Ophiurida       | Amphilepididae  |
| <i>Acrocniida brachiata</i>              | 236130   | 4  | 3  | B   | Echinodermata | Ophiuroidea   | Ophiurida       | Amphiuridae     |
| <i>Amphipholis squamata</i>              | 125064   | 4  | 3  | B   | Echinodermata | Ophiuroidea   | Ophiurida       | Amphiuridae     |
| Amphiura                                 | 123613   | 4  | 3  | B   | Echinodermata | Ophiuroidea   | Ophiurida       | Amphiuridae     |
| <i>Amphiura (Ophiopeltis) securigera</i> | 125195   | 4  | 3  | B   | Echinodermata | Ophiuroidea   | Ophiurida       | Amphiuridae     |
| <i>Amphiura chiajei</i>                  | 125073   | 4  | 3  | B   | Echinodermata | Ophiuroidea   | Ophiurida       | Amphiuridae     |
| <i>Amphiura filliformis</i>              | 125080   | 4  | 3  | B   | Echinodermata | Ophiuroidea   | Ophiurida       | Amphiuridae     |
| <i>Ophiocomina nigra</i>                 | 125027   | 2  | 2  | S   | Echinodermata | Ophiuroidea   | Ophiurida       | Ophiocomidae    |
| <i>Ophiothrix fragilis</i>               | 125131   | 2  | 2  | S   | Echinodermata | Ophiuroidea   | Ophiurida       | Ophiotrichidae  |
| <i>Ophiocten affinis</i>                 | 124850   | 2  | 2  | S   | Echinodermata | Ophiuroidea   | Ophiurida       | Ophiuridae      |
| Ophiura                                  | 123574   | 2  | 2  | S   | Echinodermata | Ophiuroidea   | Ophiurida       | Ophiuridae      |
| <i>Ophiura albida</i>                    | 124913   | 2  | 2  | S   | Echinodermata | Ophiuroidea   | Ophiurida       | Ophiuridae      |
| <i>Ophiura ophiura</i>                   | 124929   | 2  | 2  | S   | Echinodermata | Ophiuroidea   | Ophiurida       | Ophiuridae      |
| Ophiuridae                               | 123200   | 2  | 2  | S   | Echinodermata | Ophiuroidea   | Ophiurida       | Ophiuridae      |
| <i>Maxmuelleria gigas</i>                | 110367   | 5  | 4  | R   | Echiura       | Echiuroidea   | Bonelliida      | Bonelliidae     |
| <i>Echiurus echiurus</i>                 | 110377   | 3  | 2  | DC  | Echiura       | Echiuroidea   | Echiurida       | Echiuridae      |
| <i>Thalassema thalasseum</i>             | 110375   | 3  | 2  | DC  | Echiura       | Echiuroidea   | Echiurida       | Echiuridae      |
| Echiurida                                | 110345   | 3  | 2  | DC  | Echiura       | Echiuroidea   | Echiurida       |                 |
| Echiura                                  | 1269     | 3  | 2  | DC  | Echiura       |               |                 |                 |
| <i>Glandiceps talaboti</i>               | 137612   | 5  | 4  | R   | HemiChordata  | Enteropneusta | Enteropneusta   | Spengelidae     |
| Enteropneusta                            | 178738   | 5  | 4  | R   | HemiChordata  | Enteropneusta |                 |                 |
| <i>Ensis magnus</i>                      | 160539   | 2  | 2  | S   | Mollusca      | Bivalvia      |                 | Pharidae        |

Table 1. Continued.

| Scientific Name               | Aphia ID | Ri | Mi | Fti   | Phylum   | Class    | Order          | Family         |
|-------------------------------|----------|----|----|-------|----------|----------|----------------|----------------|
|                               |          |    |    |       |          |          | [unassigned]   |                |
|                               |          |    |    |       |          |          | Euheterodonta  |                |
| <i>Hiatella arctica</i>       | 140103   | 1  | 2  | E     | Mollusca | Bivalvia | [unassigned]   | Hiatellidae    |
|                               |          |    |    |       |          |          | Euheterodonta  |                |
| <i>Saxicavella jeffreysi</i>  | 140108   | 1  | 2  | E     | Mollusca | Bivalvia | [unassigned]   | Hiatellidae    |
|                               |          |    |    |       |          |          | Euheterodonta  |                |
| <i>Ensis</i>                  | 138333   | 2  | 2  | S     | Mollusca | Bivalvia | [unassigned]   | Pharidae       |
|                               |          |    |    |       |          |          | Euheterodonta  |                |
| <i>Ensis directus</i>         | 140732   | 2  | 2  | S     | Mollusca | Bivalvia | [unassigned]   | Pharidae       |
|                               |          |    |    |       |          |          | Euheterodonta  |                |
| <i>Ensis ensis</i>            | 140733   | 2  | 2  | S     | Mollusca | Bivalvia | [unassigned]   | Pharidae       |
|                               |          |    |    |       |          |          | Euheterodonta  |                |
| <i>Pharus legumen</i>         | 140736   | 2  | 2  | S     | Mollusca | Bivalvia | [unassigned]   | Pharidae       |
|                               |          |    |    |       |          |          | Euheterodonta  |                |
| <i>Phaxas adriaticus</i>      | 156343   | 2  | 2  | S     | Mollusca | Bivalvia | [unassigned]   | Pharidae       |
|                               |          |    |    |       |          |          | Euheterodonta  |                |
| <i>Phaxas pellucidus</i>      | 140737   | 2  | 2  | S     | Mollusca | Bivalvia | [unassigned]   | Pharidae       |
|                               |          |    |    |       |          |          | Euheterodonta  |                |
| <i>Cuspidaria obesa</i>       | 139450   | 3  | 2  | UC/DC | Mollusca | Bivalvia | Anomalodesmata | Cuspidariidae  |
| <i>Lyonsia norwegica</i>      | 140291   | 2  | 2  | S     | Mollusca | Bivalvia | Anomalodesmata | Lyonsiidae     |
| <i>Cochlodesma praetenuae</i> | 181373   | 3  | 2  | DC    | Mollusca | Bivalvia | Anomalodesmata | Periplomatidae |
| <i>Thracia</i>                | 138549   | 3  | 2  | DC    | Mollusca | Bivalvia | Anomalodesmata | Thraciidae     |
| <i>Thracia convexa</i>        | 141644   | 3  | 2  | DC    | Mollusca | Bivalvia | Anomalodesmata | Thraciidae     |
| <i>Thracia phaseolina</i>     | 152378   | 3  | 2  | DC    | Mollusca | Bivalvia | Anomalodesmata | Thraciidae     |
| <i>Thracia villosiuscula</i>  | 141651   | 3  | 2  | DC    | Mollusca | Bivalvia | Anomalodesmata | Thraciidae     |
| <i>Glycymeris glycymeris</i>  | 140025   | 2  | 2  | S     | Mollusca | Bivalvia | Arcoida        | Glycymerididae |
| <i>Limopsis cristata</i>      | 140253   | 1  | 1  | E     | Mollusca | Bivalvia | Arcoida        | Limopsidae     |
| <i>Astarte borealis</i>       | 138818   | 2  | 2  | S     | Mollusca | Bivalvia | Carditoida     | Astartidae     |
| <i>Astarte montagui</i>       | 138823   | 2  | 2  | S     | Mollusca | Bivalvia | Carditoida     | Astartidae     |
| <i>Goodallia triangularis</i> | 138831   | 2  | 2  | S     | Mollusca | Bivalvia | Carditoida     | Astartidae     |
| <i>Arcturellina</i>           | 492197   | 2  | 2  | S     | Mollusca | Bivalvia | Carditoida     | Carditidae     |
| <i>Limatula gwyni</i>         | 140237   | 1  | 2  | E     | Mollusca | Bivalvia | Limoida        | Limidae        |
| <i>Limatula subauriculata</i> | 140242   | 1  | 2  | E     | Mollusca | Bivalvia | Limoida        | Limidae        |
| <i>Lucinella divaricata</i>   | 140282   | 2  | 2  | S     | Mollusca | Bivalvia | Lucinoida      | Lucinidae      |
| <i>Lucinoma borealis</i>      | 140283   | 2  | 2  | S     | Mollusca | Bivalvia | Lucinoida      | Lucinidae      |
| <i>Myrtea spinifera</i>       | 140287   | 2  | 2  | S     | Mollusca | Bivalvia | Lucinoida      | Lucinidae      |
| <i>Axinulus croulinensis</i>  | 234161   | 3  | 2  | DC    | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Axinulus eumyrius</i>      | 234162   | 3  | 2  | UC/DC | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Mendicula ferruginosa</i>  | 152905   | 2  | 2  | S     | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Mendicula pygmaea</i>      | 152424   | 2  | 2  | S     | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Thyasira</i>               | 138552   | 3  | 2  | DC    | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Thyasira biplicata</i>     | 141655   | 3  | 2  | DC    | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Thyasira equalis</i>       | 141659   | 3  | 2  | DC    | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Thyasira flexuosa</i>      | 141662   | 3  | 2  | DC    | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Thyasira obsoleta</i>      | 141668   | 3  | 2  | DC    | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Thyasira sarsi</i>         | 141672   | 3  | 2  | DC    | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Thyasira succisa</i>       | 141676   | 3  | 2  | DC    | Mollusca | Bivalvia | Lucinoida      | Thyasiridae    |
| <i>Corbula gibba</i>          | 139410   | 2  | 2  | S     | Mollusca | Bivalvia | Myoida         | Corbulidae     |
| <i>Mya</i>                    | 138211   | 2  | 2  | S     | Mollusca | Bivalvia | Myoida         | Myidae         |
| <i>Mya arenaria</i>           | 140430   | 2  | 2  | S     | Mollusca | Bivalvia | Myoida         | Myidae         |
| <i>Mya truncata</i>           | 140431   | 2  | 2  | S     | Mollusca | Bivalvia | Myoida         | Myidae         |
| <i>Sphenia binghami</i>       | 140432   | 2  | 2  | S     | Mollusca | Bivalvia | Myoida         | Myidae         |
| <i>Crenella decussata</i>     | 140440   | 2  | 3  | S     | Mollusca | Bivalvia | Mytiloida      | Mytilidae      |
| <i>Modiolula phaseolina</i>   | 140461   | 2  | 2  | S     | Mollusca | Bivalvia | Mytiloida      | Mytilidae      |
| <i>Modiolus modiolus</i>      | 140467   | 2  | 2  | S     | Mollusca | Bivalvia | Mytiloida      | Mytilidae      |

Table 1. Continued.

| Scientific Name                   | Aphia ID | Ri | Mi | Fti | Phylum   | Class    | Order        | Family       |
|-----------------------------------|----------|----|----|-----|----------|----------|--------------|--------------|
| <i>Mytilus</i>                    | 138228   | 1  | 1  | E   | Mollusca | Bivalvia | Mytiloidea   | Mytilidae    |
| <i>Mytilus edulis</i>             | 140480   | 1  | 1  | E   | Mollusca | Bivalvia | Mytiloidea   | Mytilidae    |
| <i>Nuculana minuta</i>            | 140577   | 2  | 3  | S   | Mollusca | Bivalvia | Nuculanoidea | Nuculanidae  |
| <i>Yoldiella lucida</i>           | 142002   | 2  | 3  | S   | Mollusca | Bivalvia | Nuculanoidea | Yoldiidae    |
| <i>Ennucula tenuis</i>            | 140584   | 2  | 3  | S   | Mollusca | Bivalvia | Nuculida     | Nuculidae    |
| <i>Nucula</i>                     | 138262   | 2  | 3  | S   | Mollusca | Bivalvia | Nuculida     | Nuculidae    |
| <i>Nucula hanleyi</i>             | 140588   | 2  | 3  | S   | Mollusca | Bivalvia | Nuculida     | Nuculidae    |
| <i>Nucula nitidosa</i>            | 140589   | 2  | 3  | S   | Mollusca | Bivalvia | Nuculida     | Nuculidae    |
| <i>Nucula nucleus</i>             | 140590   | 2  | 3  | S   | Mollusca | Bivalvia | Nuculida     | Nuculidae    |
| <i>Nucula sulcata</i>             | 140592   | 2  | 3  | S   | Mollusca | Bivalvia | Nuculida     | Nuculidae    |
| <i>Nucula turgida</i>             | 152274   | 2  | 3  | S   | Mollusca | Bivalvia | Nuculida     | Nuculidae    |
| Nuculidae                         | 204      | 2  | 3  | S   | Mollusca | Bivalvia | Nuculida     | Nuculidae    |
| Anomiidae                         | 214      | 1  | 1  | E   | Mollusca | Bivalvia | Pectinoidea  | Anomiidae    |
| <i>Monia patelliformis</i>        | 153027   | 2  | 2  | S   | Mollusca | Bivalvia | Pectinoidea  | Anomiidae    |
| <i>Aequipecten opercularis</i>    | 140687   | 2  | 3  | S   | Mollusca | Bivalvia | Pectinoidea  | Pectinidae   |
| <i>Palliolum striatum</i>         | 140709   | 2  | 3  | S   | Mollusca | Bivalvia | Pectinoidea  | Pectinidae   |
| <i>Palliolum tigrinum</i>         | 140710   | 2  | 3  | S   | Mollusca | Bivalvia | Pectinoidea  | Pectinidae   |
| Pectinidae                        | 213      | 2  | 3  | S   | Mollusca | Bivalvia | Pectinoidea  | Pectinidae   |
| <i>Arctica islandica</i>          | 138802   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Arctidae     |
| <i>Acanthocardia aculeata</i>     | 137732   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Cardiidae    |
| <i>Acanthocardia echinata</i>     | 138990   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Cardiidae    |
| <i>Acanthocardia paucicostata</i> | 138992   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Cardiidae    |
| Cardiidae                         | 229      | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Cardiidae    |
| <i>Cerastoderma edule</i>         | 138998   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Cardiidae    |
| <i>Laevicardium crassum</i>       | 139004   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Cardiidae    |
| <i>Parvicardium exiguum</i>       | 139008   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Cardiidae    |
| <i>Parvicardium minimum</i>       | 139010   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Cardiidae    |
| <i>Parvicardium scabrum</i>       | 139012   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Cardiidae    |
| <i>Donax vittatus</i>             | 139604   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Donacidae    |
| <i>Kelliella miliaris</i>         | 152396   | 4  | 2  | B   | Mollusca | Bivalvia | Veneroidea   | Kelliellidae |
| <i>Vesicomya abyssicola</i>       | 464333   | 4  | 2  | B   | Mollusca | Bivalvia | Veneroidea   | Kelliellidae |
| <i>Hemilepton nitidum</i>         | 246148   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Lasaeidae    |
| <i>Lepton squamosum</i>           | 140218   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Lasaeidae    |
| <i>Lutraria lutraria</i>          | 140295   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Mactridae    |
| <i>Mactra stultorum</i>           | 138158   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Mactridae    |
| <i>Mactra stultorum</i>           | 140299   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Mactridae    |
| <i>Spisula elliptica</i>          | 138159   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Mactridae    |
| <i>Spisula elliptica</i>          | 140300   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Mactridae    |
| <i>Spisula solida</i>             | 140301   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Mactridae    |
| <i>Spisula subtruncata</i>        | 140302   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Mactridae    |
| <i>Devonia perrieri</i>           | 140365   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Montacutidae |
| <i>Epilepton clarkiae</i>         | 140366   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Montacutidae |
| <i>Kurtiella bidentata</i>        | 345281   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Montacutidae |
| <i>Montacuta phascolionis</i>     | 140374   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Montacutidae |
| <i>Montacuta substriata</i>       | 140377   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Montacutidae |
| <i>Tellimya ferruginosa</i>       | 146952   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Montacutidae |
| <i>Tellimya tenella</i>           | 152397   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Montacutidae |
| <i>Gari costulata</i>             | 138388   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Psammobiidae |
| <i>Gari costulata</i>             | 140868   | 2  | 2  | S   | Mollusca | Bivalvia | Veneroidea   | Psammobiidae |

Table 1. Continued.

| Scientific Name               | Aphia ID | Ri | Mi | Fti | Phylum   | Class        | Order           | Family           |
|-------------------------------|----------|----|----|-----|----------|--------------|-----------------|------------------|
| <i>Gari depressa</i>          | 140869   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Psammobiidae     |
| <i>Gari fervensis</i>         | 140870   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Psammobiidae     |
| <i>Gari tellinella</i>        | 140873   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Psammobiidae     |
| <i>Abra</i>                   | 138474   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Semelidae        |
| <i>Abra alba</i>              | 141433   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Semelidae        |
| <i>Abra nitida</i>            | 141435   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Semelidae        |
| <i>Abra prismatica</i>        | 141436   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Semelidae        |
| <i>Azorinus chamasolen</i>    | 141541   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Solecurtidae     |
| <i>Solecurtus scopula</i>     | 141543   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Solecurtidae     |
| <i>Angulus</i>                | 146491   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Angulus fabula</i>         | 152829   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Angulus incarnatus</i>     | 594114   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Angulus pygmaeus</i>       | 152828   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Angulus tenuis</i>         | 146492   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Arcopagia crassa</i>       | 141577   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Macoma balthica</i>        | 141579   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Moerella donacina</i>      | 147021   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Peronaea planata</i>       | 605934   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Tellina distorta</i>       | 141585   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Tellina nitida</i>         | 141589   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Tellinidae       |
| <i>Turtonia minuta</i>        | 141875   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Turtoniidae      |
| <i>Chamelea gallina</i>       | 141907   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Chamelea striatula</i>     | 141908   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Clausinella fasciata</i>   | 141909   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Dosinia</i>                | 138636   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Dosinia exoleta</i>        | 141911   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Dosinia lupinus</i>        | 141912   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Gouldia minima</i>         | 141916   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Mysia undata</i>           | 140728   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Petricolaria</i>           | 156961   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>pholadiformis</i>          |          |    |    |     |          |              |                 |                  |
| <i>Polititapes virgineus</i>  | 507877   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Timoclea ovata</i>         | 141929   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Venerupis corrugata</i>    | 181364   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Venerupis corrugata</i>    | 181364   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Venus casina</i>           | 141934   | 2  | 2  | S   | Mollusca | Bivalvia     | Veneroidea      | Veneridae        |
| <i>Chaetoderma</i>            | 139106   | 2  | 2  | S   | Mollusca | Caudofoveata | Chaetodermatida | Chaetodermatidae |
| <i>nitidulum</i>              |          |    |    |     |          |              |                 |                  |
| <i>Caudofoveata</i>           | 151365   | 2  | 2  | S   | Mollusca | Caudofoveata |                 |                  |
| <i>Odostomia scalaris</i>     | 141014   | 4  | 3  | B   | Mollusca | Gastropoda   |                 | Pyramidellidae   |
| <i>Gibbula cineraria</i>      | 141782   | 1  | 3  | E   | Mollusca | Gastropoda   |                 | Trochidae        |
| <i>Bittium reticulatum</i>    | 139054   | 2  | 4  | S   | Mollusca | Gastropoda   | [unassigned]    | Cerithiidae      |
|                               |          |    |    |     |          |              | Caenogastropoda |                  |
| <i>Epitonium turtonis</i>     | 139738   | 2  | 2  | S   | Mollusca | Gastropoda   | [unassigned]    | Epitoniidae      |
|                               |          |    |    |     |          |              | Caenogastropoda |                  |
| <i>Eulima bilineata</i>       | 566940   | 4  | 3  | B   | Mollusca | Gastropoda   | [unassigned]    | Eulimidae        |
|                               |          |    |    |     |          |              | Caenogastropoda |                  |
| <i>Eulima glabra</i>          | 139805   | 4  | 3  | B   | Mollusca | Gastropoda   | [unassigned]    | Eulimidae        |
|                               |          |    |    |     |          |              | Caenogastropoda |                  |
| <i>Eulimidae</i>              | 135      | 4  | 3  | B   | Mollusca | Gastropoda   | [unassigned]    | Eulimidae        |
|                               |          |    |    |     |          |              | Caenogastropoda |                  |
| <i>Vitreolina philippi</i>    | 139903   | 4  | 3  | B   | Mollusca | Gastropoda   | [unassigned]    | Eulimidae        |
|                               |          |    |    |     |          |              | Caenogastropoda |                  |
| <i>Turritella communis</i>    | 141872   | 4  | 3  | B   | Mollusca | Gastropoda   | [unassigned]    | Turritellidae    |
|                               |          |    |    |     |          |              | Caenogastropoda |                  |
| <i>Hedylopsis spiculifera</i> | 140085   | 4  | 3  | B   | Mollusca | Gastropoda   | Acochliacea     | Hedylopsidae     |



Table 1. Continued.

| Scientific Name                              | Aphia ID | Ri | Mi | Fti   | Phylum   | Class          | Order           | Family          |
|--|----------|----|----|-------|----------|----------------|-----------------|-----------------|
| <i>Akera bullata</i>                         | 138734   | 2  | 3  | S     | Mollusca | Gastropoda     | Anaspidea       | Akeridae        |
| <i>Cylichna alba</i>                         | 139474   | 2  | 3  | S     | Mollusca | Gastropoda     | Cephalaspidea   | Cylichnidae     |
| <i>Cylichna cylindracea</i>                  | 139476   | 2  | 3  | S     | Mollusca | Gastropoda     | Cephalaspidea   | Cylichnidae     |
| Philine                                      | 138339   | 2  | 3  | S     | Mollusca | Gastropoda     | Cephalaspidea   | Philinidae      |
| <i>Philine aperta</i>                        | 140744   | 2  | 3  | S     | Mollusca | Gastropoda     | Cephalaspidea   | Philinidae      |
| <i>Philine scabra</i>                        | 140761   | 2  | 3  | S     | Mollusca | Gastropoda     | Cephalaspidea   | Philinidae      |
| Retusa                                       | 138432   | 2  | 3  | S     | Mollusca | Gastropoda     | Cephalaspidea   | Retusidae       |
| <i>Retusa truncatula</i>                     | 141138   | 2  | 3  | S     | Mollusca | Gastropoda     | Cephalaspidea   | Retusidae       |
| <i>Roxania utriculus</i>                     | 139486   | 2  | 3  | S     | Mollusca | Gastropoda     | Cephalaspidea   | Scaphandridae   |
| <i>Scaphander lignarius</i>                  | 139488   | 2  | 3  | S     | Mollusca | Gastropoda     | Cephalaspidea   | Scaphandridae   |
| <i>Aporrhais pespelecani</i>                 | 138760   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Aporrhaidae     |
| <i>Caecum glabrum</i>                        | 138952   | 1  | 2  | E     | Mollusca | Gastropoda     | Littorinimorpha | Caecidae        |
| <i>Crepidula fornicata</i>                   | 138963   | 1  | 1  | E     | Mollusca | Gastropoda     | Littorinimorpha | Calyptraeidae   |
| <i>Galeodea echinophora</i>                  | 139023   | 1  | 4  | E     | Mollusca | Gastropoda     | Littorinimorpha | Cassidae        |
| Hydrobiidae                                  | 120      | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Hydrobiidae     |
| Ceratia                                      | 138082   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Iravadiidae     |
| <i>Ceratia proxima</i>                       | 140128   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Iravadiidae     |
| <i>Hyalia vitrea</i>                         | 140129   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Iravadiidae     |
| <i>Euspira pulchella</i>                     | 140539   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Naticidae       |
| <i>Lunatia catena</i>                        | 150590   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Naticidae       |
| <i>Lunatia montagui</i>                      | 150639   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Naticidae       |
| Naticidae                                    | 145      | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Naticidae       |
| Alvania                                      | 138439   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Rissoidae       |
| <i>Alvania cancellata</i>                    | 141165   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Rissoidae       |
| <i>Alvania cimicoides</i>                    | 141168   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Rissoidae       |
| <i>Alvania subsoluta</i>                     | 141247   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Rissoidae       |
| <i>Alvania testae</i>                        | 141251   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Rissoidae       |
| Rissoa                                       | 138456   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Rissoidae       |
| <i>Rissoa parva</i>                          | 141365   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Rissoidae       |
| <i>Lamellaria latens</i>                     | 140172   | 2  | 3  | S     | Mollusca | Gastropoda     | Littorinimorpha | Velutinidae     |
| <i>Buccinum undatum</i>                      | 138878   | 2  | 4  | S     | Mollusca | Gastropoda     | Neogastropoda   | Buccinidae      |
| <i>Neptunea antiqua</i>                      | 138920   | 2  | 4  | S     | Mollusca | Gastropoda     | Neogastropoda   | Buccinidae      |
| <i>Mangelia attenuata</i>                    | 139265   | 2  | 4  | S     | Mollusca | Gastropoda     | Neogastropoda   | Conidae         |
| <i>Raphitoma linearis</i>                    | 139371   | 2  | 4  | S     | Mollusca | Gastropoda     | Neogastropoda   | Conidae         |
| <i>Nassarius incrassatus</i>                 | 140503   | 2  | 3  | S     | Mollusca | Gastropoda     | Neogastropoda   | Nassariidae     |
| <i>Nassarius reticulatus</i>                 | 140513   | 2  | 3  | S     | Mollusca | Gastropoda     | Neogastropoda   | Nassariidae     |
| Onchidoris                                   | 138288   | 1  | 1  | S     | Mollusca | Gastropoda     | Nudibranchia    | Onchidorididae  |
| Cuthona                                      | 138543   | 1  | 2  | E     | Mollusca | Gastropoda     | Nudibranchia    | Tergipedidae    |
| <i>Acteon tornatilis</i>                     | 138691   | 2  | 3  | S     | Mollusca | Gastropoda     |                 | Acteonidae      |
| Turbonilla                                   | 138421   | 2  | 2  | S     | Mollusca | Gastropoda     |                 | Pyramidellidae  |
| <i>Turbonilla acuta</i>                      | 141052   | 2  | 2  | S     | Mollusca | Gastropoda     |                 | Pyramidellidae  |
| <i>Turbonilla crenata</i>                    | 141057   | 2  | 2  | S     | Mollusca | Gastropoda     |                 | Pyramidellidae  |
| Rissoella                                    | 144173   | 2  | 3  | S     | Mollusca | Gastropoda     |                 | Rissoellidae    |
| <i>Rissoella diaphana</i>                    | 141147   | 2  | 3  | S     | Mollusca | Gastropoda     |                 | Rissoellidae    |
| <i>Rissoella opalina</i>                     | 141149   | 2  | 3  | S     | Mollusca | Gastropoda     |                 | Rissoellidae    |
| <i>Lepidochitona (Lepidochitona) cinerea</i> | 140143   | 1  | 2  | E     | Mollusca | Polyplacophora | Chitonida       | Tonicellidae    |
| <i>Leptochiton asellus</i>                   | 140199   | 1  | 2  | E     | Mollusca | Polyplacophora | Lepidopleurida  | Leptochitonidae |
| <i>Antalis entalis</i>                       | 150534   | 3  | 2  | UC    | Mollusca | Scaphopoda     | Dentaliida      | Dentaliidae     |
| <i>Antalis vulgaris</i>                      | 196380   | 3  | 2  | UC/DC | Mollusca | Scaphopoda     | Dentaliida      | Dentaliidae     |
| <i>Entalina tetragona</i>                    | 139691   | 2  | 2  | S     | Mollusca | Scaphopoda     | Gadilida        | Entalinidae     |
| Nematoda                                     | 799      | 2  | 2  | S     | Nematoda |                |                 |                 |
| Cerebratululid                               | 122348   | 4  | 3  | B     | Nemertea | Anopla         |                 | Cerebratulidae  |
| Lineidae                                     | 122314   | 4  | 3  | B     | Nemertea | Anopla         |                 | Cerebratulidae  |

Table 1. Continued.

| Scientific Name                                      | Aphia ID | Ri | Mi | Fti | Phylum          | Class             | Order        | Family         |
|--|----------|----|----|-----|-----------------|-------------------|--------------|----------------|
| Nemertea   | 152391   | 4  | 3  | B   | Nemertea        |                   |              |                |
| Tubularia  | 600947   | 1  | 1  | E   | Ochrophyta      | Bacillariophyceae |              |                |
| Phoronida  | 1789     | 2  | 1  | S   | Phoronida       |                   |              | Phoronidae     |
| Phoronis   | 128545   | 2  | 1  | S   | Phoronida       |                   |              |                |
| <i>Phoronis muelleri</i>                             | 128549   | 2  | 1  | S   | Phoronida       |                   |              |                |
| <i>Phoronis pallida</i>                              | 128551   | 2  | 1  | S   | Phoronida       |                   |              |                |
| Turbellaria  | 794      | 2  | 2  | S   | Platyhelminthes | Turbellaria       |              |                |
| Platyhelminthes                                      | 793      | 2  | 2  | S   | Platyhelminthes |                   |              |                |
| <i>Pachymatisma johnstonia</i>                       | 134057   | 1  | 1  | E   | Porifera        | Demospongiae      | Astrophorida | Geodiidae      |
| Golfingia  | 136021   | 4  | 3  | B   | Sipuncula       | Sipunculidea      | Golfingiida  | Golfingiidae   |
| <i>Golfingia (Golfingia) elongata</i>                | 175026   | 4  | 3  | B   | Sipuncula       | Sipunculidea      | Golfingiida  | Golfingiidae   |
| <i>Golfingia (Golfingia) iniqua</i>                  | 136042   | 4  | 3  | B   | Sipuncula       | Sipunculidea      | Golfingiida  | Golfingiidae   |
| <i>Golfingia (Golfingia) vulgaris vulgaris</i>       | 410724   | 4  | 3  | B   | Sipuncula       | Sipunculidea      | Golfingiida  | Golfingiidae   |
| <i>Nephasoma (Nephasoma) minutum</i>                 | 136060   | 4  | 3  | B   | Sipuncula       | Sipunculidea      | Golfingiida  | Golfingiidae   |
| <i>Thysanocardia procera</i>                         | 136063   | 4  | 3  | B   | Sipuncula       | Sipunculidea      | Golfingiida  | Golfingiidae   |
| Onchnesoma   | 136024   | 4  | 3  | B   | Sipuncula       | Sipunculidea      | Golfingiida  | Phascolionidae |
| <i>Onchnesoma magnibathum</i>                        | 136064   | 4  | 3  | B   | Sipuncula       | Sipunculidea      | Golfingiida  | Phascolionidae |
| <i>Onchnesoma steenstrupii</i>                       | 410742   | 2  | 2  | S   | Sipuncula       | Sipunculidea      | Golfingiida  | Phascolionidae |
| <i>Phascolion (Phascolion) strombus strombus</i>     | 410749   | 2  | 2  | S   | Sipuncula       | Sipunculidea      | Golfingiida  | Phascolionidae |
| Sipunculidea   | 1296     | 4  | 3  | B   | Sipuncula       | Sipunculidea      |              |                |
| Sipuncula  | 1268     | 4  | 3  | B   | Sipunculidea    |                   |              |                |
| <i>Aspidosiphon (Aspidosiphon) muelleri muelleri</i> | 410717   | 4  | 3  | B   |                 |                   |              |                |
| Ericthonius  | 101567   | 2  | 1  | S   |                 |                   |              |                |
| <i>Goneplax rhomboides</i>                           | 107292   | 4  | 4  | B   |                 |                   |              |                |
| Isaeidae   | 101388   | 2  | 3  | S   |                 |                   |              |                |
| Melitidae  | 101397   | 2  | 2  | S   |                 |                   |              |                |

M<sub>i</sub> scores: 1 for organisms that live in fixed tubes; 2 indicates limited movement; 3 indicates slow, free movement through the sediment matrix; 4 indicates free movement, that is, via burrow system. R<sub>i</sub> scores: 1 for epifauna; 2 for surficial modifiers; 3 for upward and downward conveyors; 4 for biodiffusors; and 5 for regenerators. Reworking types (F<sub>t</sub>): "S" for surficial modifiers; "B" for biodiffusors; "UC" and "DC" for upward and downward conveyors; "R" for regenerators; and "E" for epifauna.

Thus far, variation in burrowing behavior across life stages has been poorly documented in the literature. However, in some species, juveniles and adults are known to exhibit different burial behavior, which can also be modified during reproductive stages (Aguzzi and Sardà 2007; Schwalb and Pusch 2009). If such changes in

behavior are known to occur, different trait scores should be attributed as appropriate to different genders or life stages.

3 Where no species level information exists, taxa are assumed to have a similar bioturbation mode to others, which are closely related taxonomically. The paucity of

information on many bioturbators (Teal et al. 2008) necessitates matching some species with the closest possible species or taxonomic group (e.g., genus or family). Regardless of whether taxonomic relatedness is a good indicator of the ecological characteristics of a species (Bevilacqua et al. 2012), the table presented here does not account for changes in taxonomic classification over time. Such changes in taxonomy could alter an organism's taxonomic relatedness to other taxa and therefore its assumed bioturbation classification. For example, *Alitta virens* (Sars 1835) and *Hediste diversicolor* (Müller 1776) may have been classified as being functionally similar, as both these species were formerly classified under the genus *Nereis* (Linnaeus 1758). Recent changes to their taxonomic classification now better reflect fundamental differences in bioturbation modes (i.e., gallery diffusor and conveyor, respectively, François et al. 2002). Nevertheless, in the absence of specific information, we consider it likely that genetically and physically similar taxa are likely to be functionally similar. As  $BP_c$  is a biomass-weighted sum of traits from many species, we consider it unlikely that small changes to trait assignments of individual species would greatly influence large-scale assessments. The current structure of the table reflects the taxonomic classification of the species at the time of analysis and will need updating as taxonomic inventories are refined.

Accepting the limitations imposed by the assumptions underpinning  $BP_c$ , the classification list we have assembled will facilitate the calculation of  $BP_c$  across most temperate coast and shelf benthic environments in the North Atlantic. This aspect makes a strong case for a wider implementation of  $BP_c$  as a standardized indicator: the ability to build on existing data (abundance and biomass) to fill gaps about bioturbation patterns where direct assessments are not, or cannot, be routinely carried out. Further efforts will need to take place for other regions of the world or particular circumstances. There is also tremendous potential for application to historical datasets, to estimate bioturbation rates in the past, providing insight into how this process has helped to shape sedimentary ecosystems over time (Solan et al. 2008). Finally, the Marine Strategy Framework Directive (2008/56/EC) now requires an integrated understanding and management of regional scale patterns of marine ecosystem functioning, based on the use of inexpensive, rapid indicators. Few functional indicators currently exist for European waters, and initial tests of the suitability and applicability of  $BP_c$  suggest that it holds promise as a tool for informing management and policy (Van Hoey et al. 2010; Birchenough et al. 2012).

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## Conflict of Interest

None declared.

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