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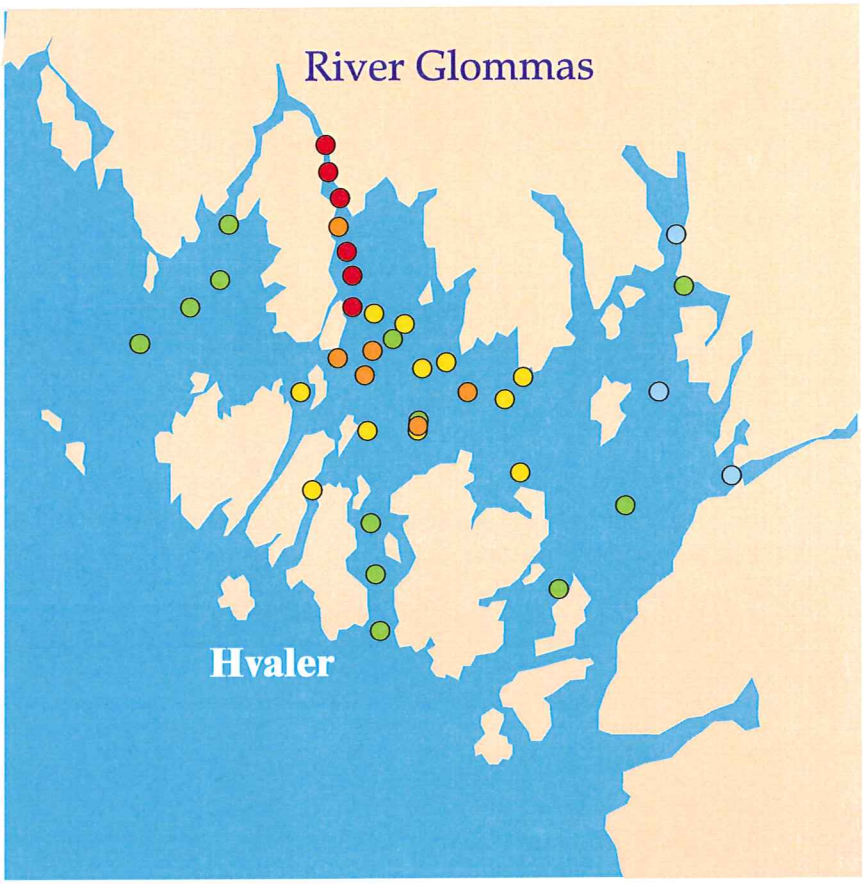
Indicator species index for assessing benthic ecological quality in marine waters of Norway



Norwegian Institute for Water Research

REPORT

Main Office
P.O. Box 173, Kjelsås
N-0411 Oslo
Norway
Phone (47) 22 18 51 00
Telefax (47) 22 18 52 00
Internet: www.niva.no

Regional Office, Sørlandet
Televeien 3
N-4879 Grimstad
Norway
Phone (47) 37 29 50 55
Telefax (47) 37 04 45 13

Regional Office, Østlandet
Sandvikaveien 41
N-2312 Ottestad
Norway
Phone (47) 62 57 64 00
Telefax (47) 62 57 66 53

Regional Office, Vestlandet
Nordnesboder 5
N-5008 Bergen
Norway
Phone (47) 55 30 22 50
Telefax (47) 55 30 22 51

Akvaplan-NIVA A/S
N-9005 Tromsø
Norway
Phone (47) 77 68 52 80
Telefax (47) 77 68 05 09

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Abstract

An indicator species index (ISI) for assessing ecological benthic quality is presented. Development of the index was based on data from Norwegian soft-bottom fauna stations. Different species react differently to detrimental environmental conditions. Diversity values at the stations were used as indicators of stress levels endured by the species occurring at that stations, thus establishing specific sensitivities. Sensitivity values were determined for 200 common taxa.

The occurrence or absence of such indicator species in a sample can be used for calculating an indicator species index value (biotic index) of the sample. This value is used as an indicator of ecological quality. The indicator species index value (ISI) of a sample is defined as the average of the sensitivity values of the species occurring in the sample. Only presence/abscence of indicator species, not their abundance, is considered. Species which occur in the sample, but having no sensitivity values assigned to them, are ignored in the calculation of ISI.

Examples of application of the index are shown for the Lillesand, Tvedestrand and Hvaler area, Norway

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1. Biologisk indeks	1. Biotic index
2. Økologisk kvalitet	2. Ecological quality
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4. Norge	4. Norway

Brage Rygg
Project manager

Kari Nygaard
Research manager

Jens Skei
Head of research department

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Indicator species index for assessing benthic ecological quality in marine waters of Norway

Preface

The development of the indicator species index (ISI) was partly sponsored by a research project (40114) at NIVA for developing methods for biological classification of ecological quality in fresh and marine waters. The work was based on previous endeavours, mostly in 1995, but including numerous additional data in the NIVA database up to 2001.

Oslo, 21 June 2002

Brage Rygg

Contents

Summary

An Indicator Species Index (ISI) for assessing ecological benthic quality is presented. Different species react differently to detrimental environmental conditions. If the specific sensitivities are known, the occurrence or absence of such *indicator species* in the samples can be used for calculating an *indicator species index (biotic index)* value of the sample. This value may be used as an indicator of ecological quality. Development of the index was based on data from 1080 samples from Norwegian soft-bottom fauna stations collected in the period 1975-2001 and includes sensitivity values for 200 taxa.

The diversity index ES_{100} (Hurlbert 1971) of the sample was chosen as an indicator of the stress level endured by the species in the sample. The index value (ISI) of a sample is defined as *the average of the sensitivity values ($ES_{100}min_5$) of the taxa occurring in the sample*. Taxa/species which occur in the sample, but having no sensitivity values assigned to them, are ignored in the calculation of ISI. Only presence/abscence of the taxa, not their abundance, is considered.

Examples of application of the index are shown for the Lillesand, Tvedestrand and Hvaler area, Norway.

1. Introduction

The study of soft-bottom macrofauna communities is a useful tool in marine ecological quality assessments. Several parameters of the benthic community are applied when assessing environmental status. Most commonly used are measures of diversity, evenness, species richness, animal densities and similarity measures describing community deviations.

Different species react differently to detrimental environmental conditions. If the stress sensitivities of separate species are known, the occurrence or absence of such *indicator species* in the samples can be used for calculating an *indicator species index (biotic index)* value of the sample. This value may be used as an indicator of ecological quality. The approach is basically different from purely numerical measures (eg. diversity), thus providing additional, non-redundant information.

Biotic indices based on indicator species have been proposed by several authors (Majeed 1987; Grall & Glémarec 1997; Weisberg & al. 1997; Borja & al. 2000; Simboura & Zenetos, submitted).

When developing a biotic index, values for the stress sensitivity or stress tolerance of separate species constitute fundamental information. The values are subsequently handled by an appropriate formula to produce the biotic index value of the sample, based on indicator species occurring in the sample.

The present report describes an upgrade of an indicator species index which was conceived some years ago at NIVA (Rygg 1985; 1995). The 1995-index included sensitivity values for 73 taxa, based on data sets from Norwegian fjords and coastal waters acquired in the period 1975-1994. The index has been in use at NIVA as a supplement to other community parameters for assessing benthic community status.

The present upgraded version of the index is based on additional data (1975-2001) and includes sensitivity values for 200 taxa. On the average it gives higher index values than the old version on identical samples, and the frequency spectrum is more expanded in the higher region. Both versions are kept in the data base for comparison, because the NIVA-reports from 1995-2001 have used 73-taxa index values. One must assume, of course, that the 200-taxa version is a more precise index.

2. Material and methods

Determinations of species sensitivities were based on their occurrence or abscence in 1080 samples from Norwegian fjords and coastal waters in the period 1975-2001. Location of the sampling stations are shown in **Figure 1**.

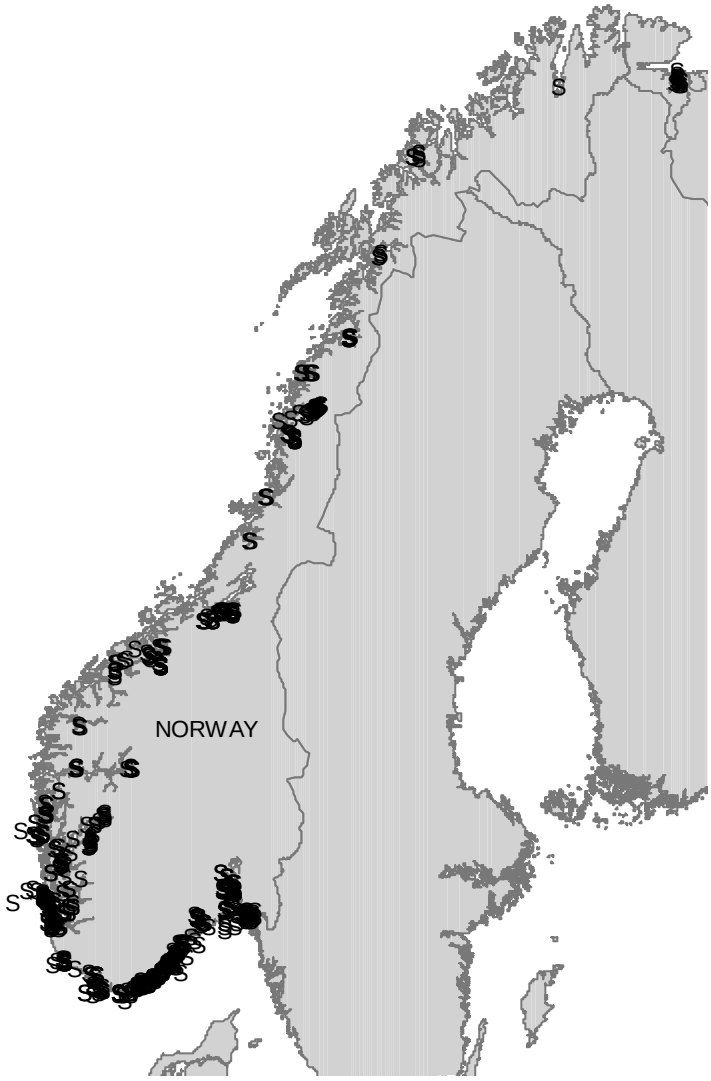

Figure 1. Location of the sampling stations

Each sample represented one station at one time. At some stations sampling has been carried out several times (mostly in separate years). Thus, the same station could be represented in different samples. The majority of samples consisted of four 0.1 m^2 grab replicates. The data from replicates were pooled prior to calculations.

To establish sensitivity values of separate species, the stress levels (eg. pollution impact) which the different species had to endure must be quantified. Ideally, occurrence or absence of species along well described stress gradients should form the basis for establishing species specific sensitivity values. It was considered an impossible task to quantify the stress levels at the Norwegian benthic stations based merely on chemical and physical information. In some cases, environmental conditions were described using several chemical determinands, such as organic carbon, toxic substances, oxygen, etc. Type of pollution, however, varied between locations. Relationships between levels and effects are unsufficiently known. Some stress factors, although important, may have been lacking in the investigation programs. Often both geological and chemical information were insufficient.

It was decided, therefore, to use information from within the biological samples themselves as a stress level indicator. Diversity was assumed to be the most appropriate parameter for this purpose. Species which are present in low-diversity communities must endure the conditions which cause the reduced diversity. Species which frequently occur in high-diversity samples, but not in low-diversity samples, can be classified as sensitive species. Presence of many sensitive species in a community will indicate a healthy environment.

Diversity is an objective, although in some cases somewhat unreliable measure of stress. On the average, though, diversity is highly correlated with environmental quality if within a uniform type of habitat.

The diversity index ES_{100} (Hurlbert 1971) of the sample was chosen as an indicator of the stress level endured by the species in the sample. The choice of ES_{100} (expected number of species among 100 individuals) instead of some other diversity measure was arbitrary, but convenient, as it excluded samples with few (<100) individuals. It was assumed that less than 100 individuals in a sample could imply poor representativity.

In some cases aggregation of several species into one wider unit (taxon) was necessary. The main reason for this was variability in taxonomic identification levels. The sensitivity of the taxon as a whole instead of the sensitivity of each of the species comprised by the taxon was then established. Taxa occurring in less than 50 of the 1080 samples were excluded from the sensitivity assessments. The polychaete *Malacoceros fuliginosus* occurred less than 50 times, but was not excluded, because it is a key pollution-indicator species.

Sensitivity values for each of the 200 taxa were determined as follows:

Among the samples in which the taxon occurred, the five samples having the lowest ES_{100} values were selected and their average ES_{100} calculated. The average of the five lowest ES_{100} was defined as the sensitivity value of that taxon, denoted $ES_{100}min_5$. Selecting the five lowest-diversity samples instead of eg. only the one lowest-diversity sample was done as a precaution against random outliers. A suggestion to include more than five samples was rejected, as that could cause more high-diversity samples to contribute to the average and thus weaken the discrimination between the sensitivity values assigned to the different taxa.

The sensitivity values of the taxa being established, a sensitivity index or species indicator index of a sample can be calculated, using an appropriate formula. The indicator species index value (ISI) of a sample is defined as *the average of the sensitivity values ($ES_{100}min_5$) of the taxa occurring in the sample*. Only presence/abscence of the taxa, not their abundance, is considered. Additional species belonging to the same taxon are ignored (one taxon contributes only once to the average).Taxa/species which occur in the sample, but having no sensitivity values assigned to them, are ignored in the calculation of ISI.

3. Results

An example of calculation of the sensitivity value ($ES_{100}min_5$) of a taxon is shown in **Table 1**. $ES_{100}min_5$ values for some selected ISI taxons are shown in **Table 2**.The complete results for the sensitivity values for the 200 taxons and their contributing species are presented in **Appendix**. Sensitivity values ranged from 2.43 (Oligochaeta, mainly *Tubificoides benedii*) to 20.91 (the polychaete *Paramphitrite tetrabranchiata*). Some other taxa showing low sensitivity values (high tolerance) were the polychaetes *Capitella capitata, Polydora(Pseudopolydora)* spp., *Nereis* spp., *Glycera alba, Malacoceros fuliginosus, Phyllodoce groenlandica, Heteromastus filiformis* and *Ophiodromus flexuosus,* and the bivalve *Corbula gibba* (**Table 2**).

Table 1. Example of calculation of $ES_{100}min_5$, showing the results for the taxon *Exogone* sp.

Species	ES_{100} in samples containing *Exogone*, values in ascending order
Exogone verugera	6.77
Exogone verugera	8.09
Exogone sp	8.50
Exogone naidina	10.65
Exogone sp	10.92
Exogone naidina	11.45
Exogone sp	11.50
Exogone sp	12.50
etc.	etc.
Average of five lowest ES_{100} ($ES_{100}min_5$) for the taxon *Exogone* spp	8.986

Table 2. A selection of taxons with very low or very high $ES_{100}min_5$ values

Group	Family	ISI taxonomic unit	ES100min5
POLYCHAETA	Hesionidae	*Ophiodromus flexuosus*	3.76
POLYCHAETA	Glyceridae	*Glycera alba*	3.33
POLYCHAETA	Spionidae	*Malacoceros fuliginosus*	3.55
POLYCHAETA	Spionidae	*Polydora/Pseudopolydora* spp	2.84
POLYCHAETA	Spionidae	*Prionospio fallax*	4.27
POLYCHAETA	Spionidae	*Prionospio steenstrupi*	17.86
POLYCHAETA	Cirratulidae	*Chaetozone setosa*	4.17
POLYCHAETA	Cirratulidae	*Cirratulus cirratus*	4.55
POLYCHAETA	Capitellidae	*Capitella capitata*	2.46
POLYCHAETA	Capitellidae	*Heteromastus filiformis*	3.76
POLYCHAETA	Pectinariidae	*Pectinaria koreni*	3.89
POLYCHAETA	Ampharetidae	*Amage auricula*	16.95
POLYCHAETA	Terebellidae	*Paramphitrite tetrabranchiata*	20.91
POLYCHAETA	Terebellidae	*Streblosoma intestinalis*	16.68
POLYCHAETA	Sigalionidae	*Pholoe minuta*	3.98
POLYCHAETA	Phyllodocidae	*Phyllodoce groenlandica*	3.66
OLIGOCHAETA	Tubificidae	Oligochaeta (mainly *Tubificoides benedii*)	2.43
BIVALVIA	Thyasiridae	*Thyasira croulinensis*	16.76
BIVALVIA	Thyasiridae	*Thyasira sarsi*	4.26
BIVALVIA	Corbulidae	*Corbula gibba*	3.79
AMPHIPODA	Pardaliscidae	*Nicippe tumida*	18.15
AMPHIPODA	Ampeliscidae	*Ampelisca gibba*	20.64

Frequency distributions of sensitivity values among the taxa are presented in **Figure 2** and ISI values among the samples in **Figure 3**.

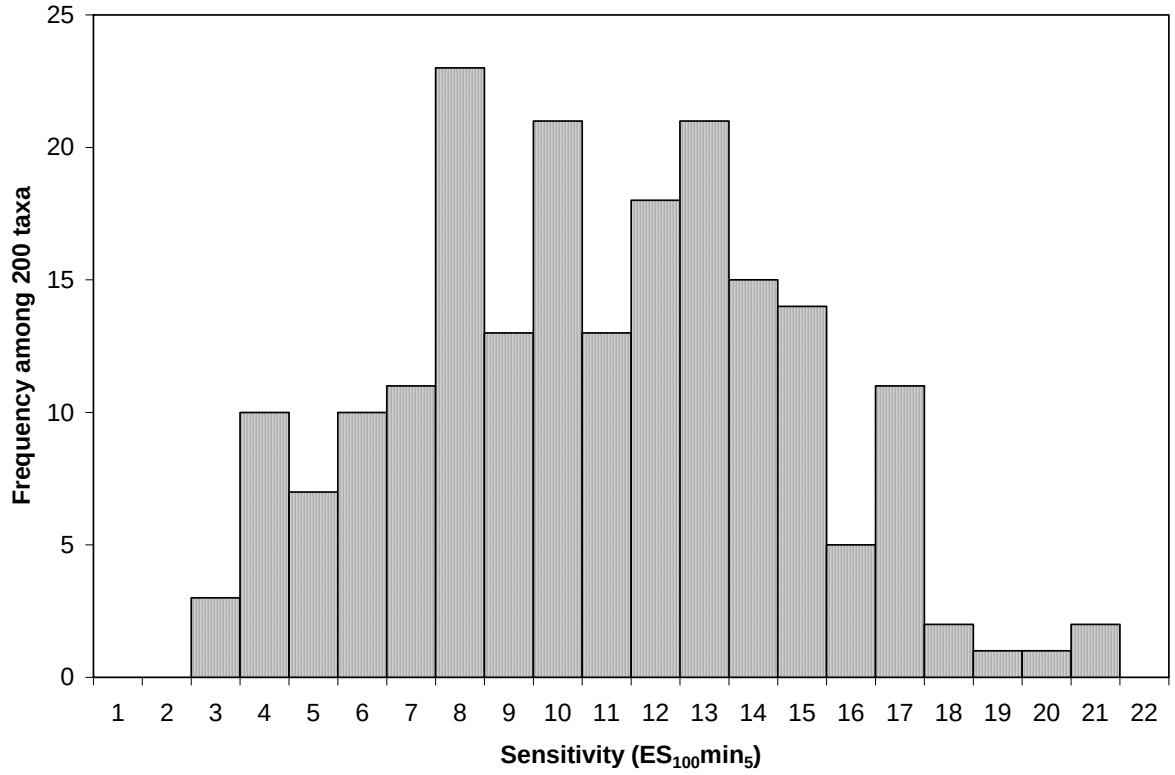

Figure 2. Frequency distribution of sensitivity values ($ES_{100}min_5$) among the 200 taxa units

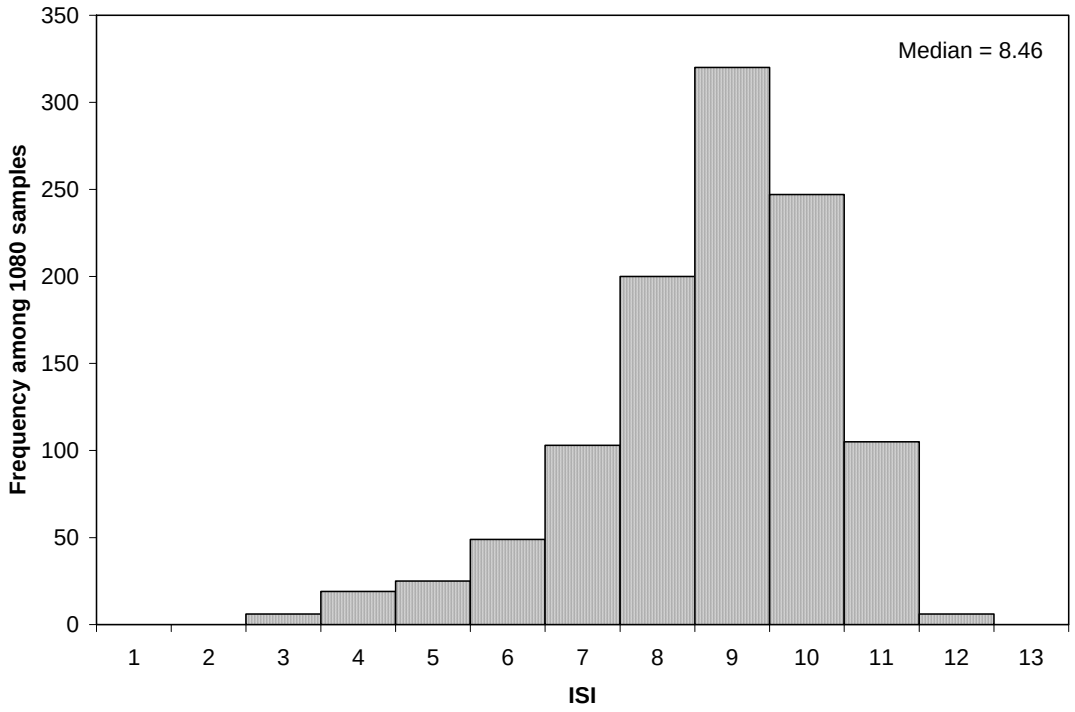

Figure 3. Frequency distribution of the ISI values among 1080 samples

Examples of calculation of ISI at two stations are shown in **Table 3**.

Table 3. Example of calculation of ISI index values at two stations in Hvaler, Norway

Station 804 Taxons present	Sensitivity value ($ES_{100}min_5$)	Station 813 Taxons present	Sensitivity value ($ES_{100}min_5$)
Abra alba	6.90	*Abra nitida*	6.44
Abra nitida	6.44	*Calocaris macandreae*	11.93
Amphiura filiformis	7.46	*Capitella capitata*	2.46
Anobothrus gracilis	7.41	*Chaetozone setosa*	4.17
Arctica islandica	10.53	*Corbula gibba*	3.79
Astarte borealis		*Eumida bahusiensis*	
Corbula gibba	3.79	*Glycera alba*	3.33
Diastylis rathkei	6.92	*Goniada maculata*	5.16
Glycera alba	3.33	*Harmothoe* sp.	7.23
Glycera sp.	8.30	*Heteromastus filiformis*	3.76
Goniada maculata	5.16	*Maldane sarsi*	7.77
Heteromastus filiformis	3.76	*Nemertinea* indet	4.43
Laonice cirrata	10.24	*Nephtys longosetosa*	
Nucula turgida	9.43	*Nephtys* sp.	6.74
Nuculoma tenuis	7.32	*Nuculoma tenuis*	7.32
Ophiura sp.	5.41	*Ophiodromus flexuosus*	3.76
Pholoe minuta	3.98	*Paraonis gracilis*	9.72
Prionospio fallax	4.27	*Phyllodoce groenlandica*	3.66
Rhodine gracilior	13.44	*Phyllodocinae* indet	
Scalibregma inflatum	5.63	*Polydora* spp.	2.84
Terebellides stroemi	9.51	*Polyphysia crassa*	7.02
Thyasira flexuosa	6.58	*Pontophilus norvegicus*	
		Scalibregma inflatum	5.63
Indicator species index ISI (=average of sensitivity values)	6.94	Indicator species index ISI (=average of sensitivity values)	5.64

ISI values among 1080 samples ranged from 2.45 to 11.14 with a median of 8.46.

Correlations between ISI and some numerical community parameters are shown in **Figure 4**.

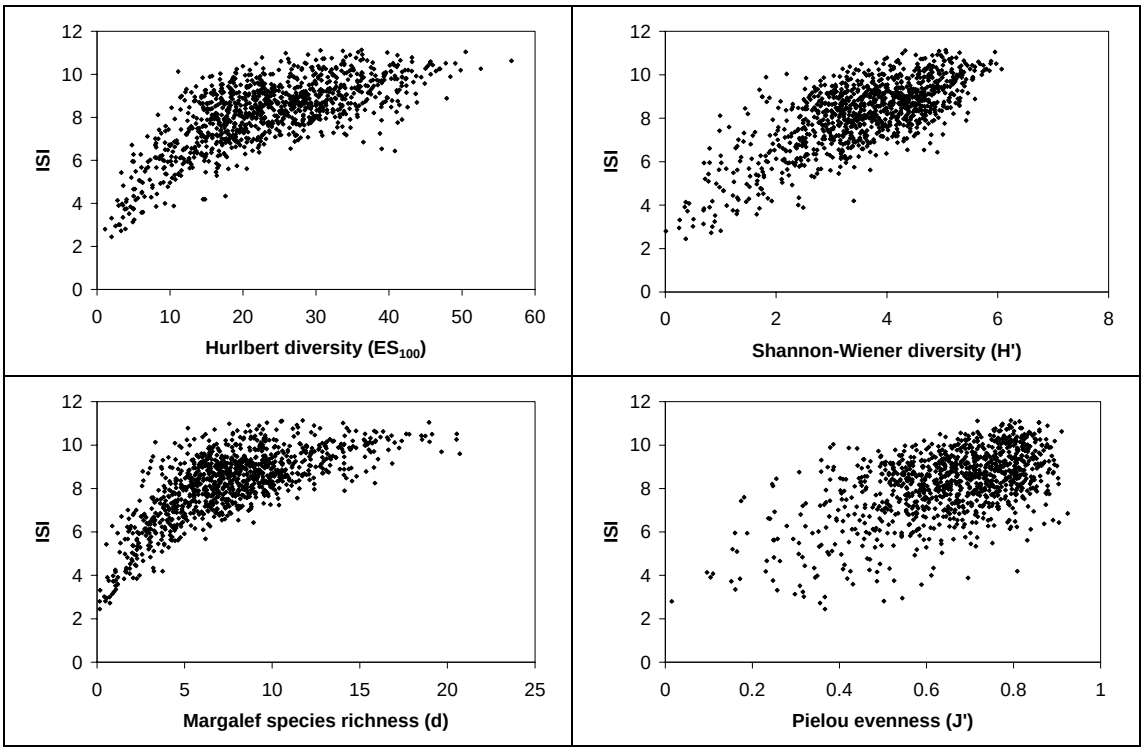

Figure 4. Plots of indicator species index (ISI) vs. numerical community indices

Examples of the practical use of the ISI index in three areas are presented below.

3.1 Lillesand area, southern Norway

The stations covered were part of various environmental monitoring programmes and samples were collected between 1983 and 2001. Both the Shannon-Wiener diversity index (H') (Shannon & Weaver 1963) and the Indicator Species Index (ISI) gave a fairly adequate description of the environmental quality at the various sampling sites. However, based on the overall information available for each site, the ISI-index seemed to give a slightly better indication of the health status at some stations. This was particularly apparent for the more sheltered stations in the vicinity of the city of Lillesand and in Skallefjorden in the north-west part of the study area (**Figure 5**). Here the Shannon-Wiener index indicated High ecological status at all seven stations, while the ISI-index classified the status of these bottom communities as Good and Fair. The ISI-index was more consistent with the general impression of a slight disturbance in these areas, caused by accumulation of organic material in the sediments and limited water renewal. The abiotic or bad conditions at stations in Vallesverdfjorden, Blindleia and Isefjærfjorden were ascribed to periodic lack of oxygen in the deep water.

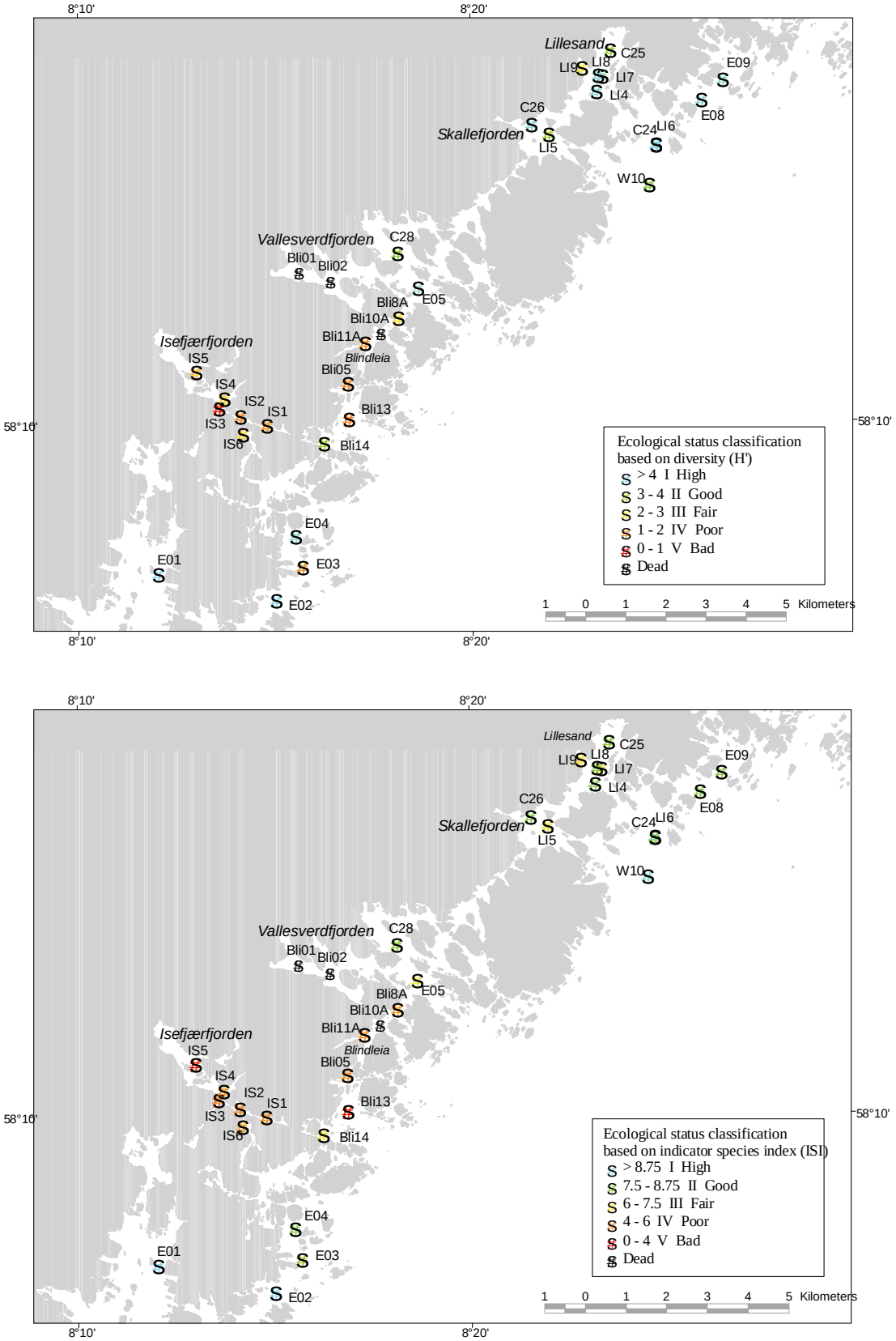

Figure 5. Classification of the benthic communities in the Lillesand area based on the Shannon-Wiener diversity (H') (upper map) and the Indicator Species Index (ISI) (lower map)

3.2 Tvedestrand area, southern Norway

The ecological status of soft-bottom communities in Tvedestrandsfjorden and some adjacent marine areas is shown in **Figure 6** and **Figure 7**. Like in the Lillesand area, the classifications were based on faunal diversity (H') and the species indicator index (ISI).

The inner part of Tvedestrandsfjorden has a restricted deep-water exchange and has been a recipient for large amounts of organic material. Oxygen deficiency near the bottom and accumulation of organic material in the sediments are important factors affecting the faunal status in this area.

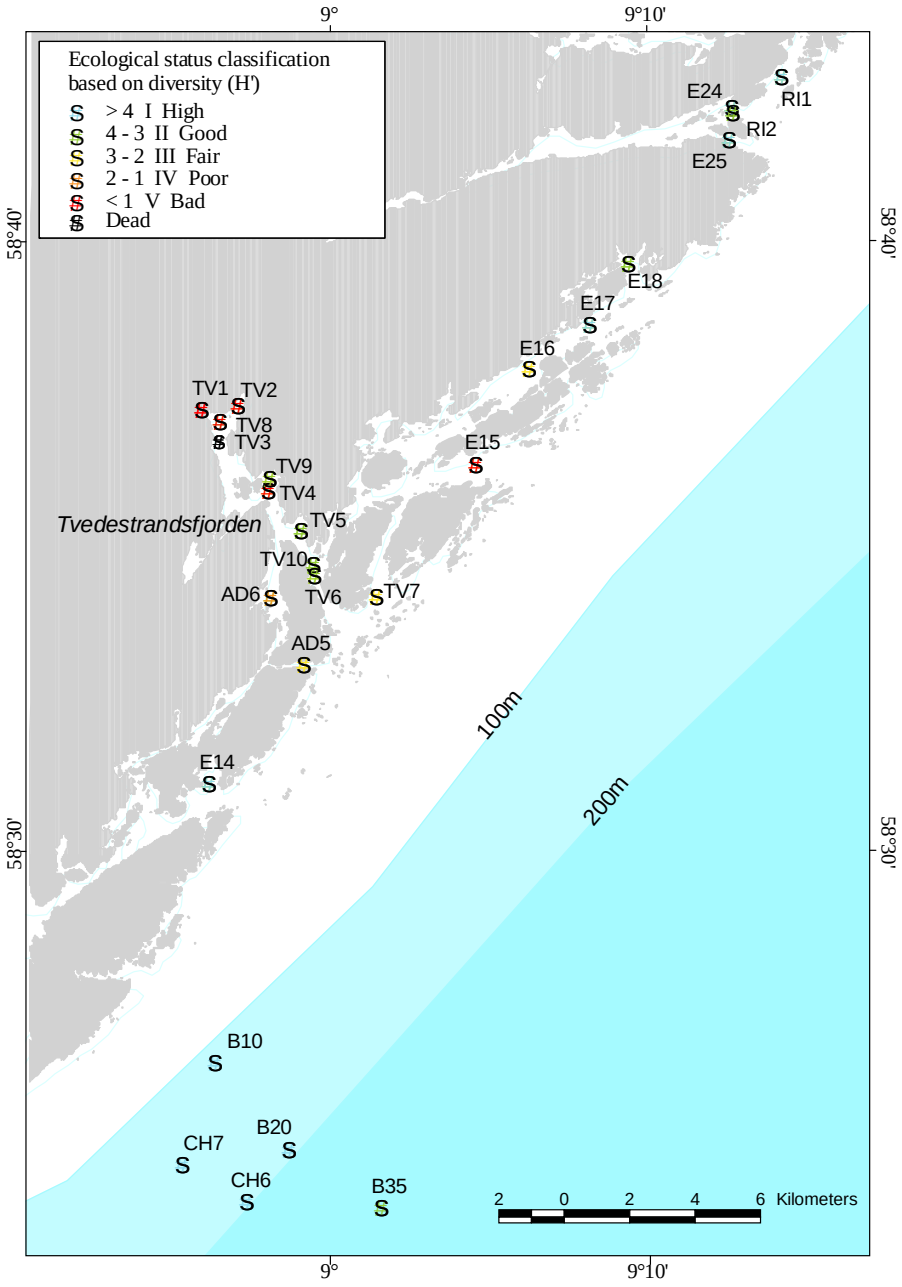

Figure 6. Average diversity (Shannon-Wiener) at benthic stations in Tvedestrandsfjorden and adjacent marine areas

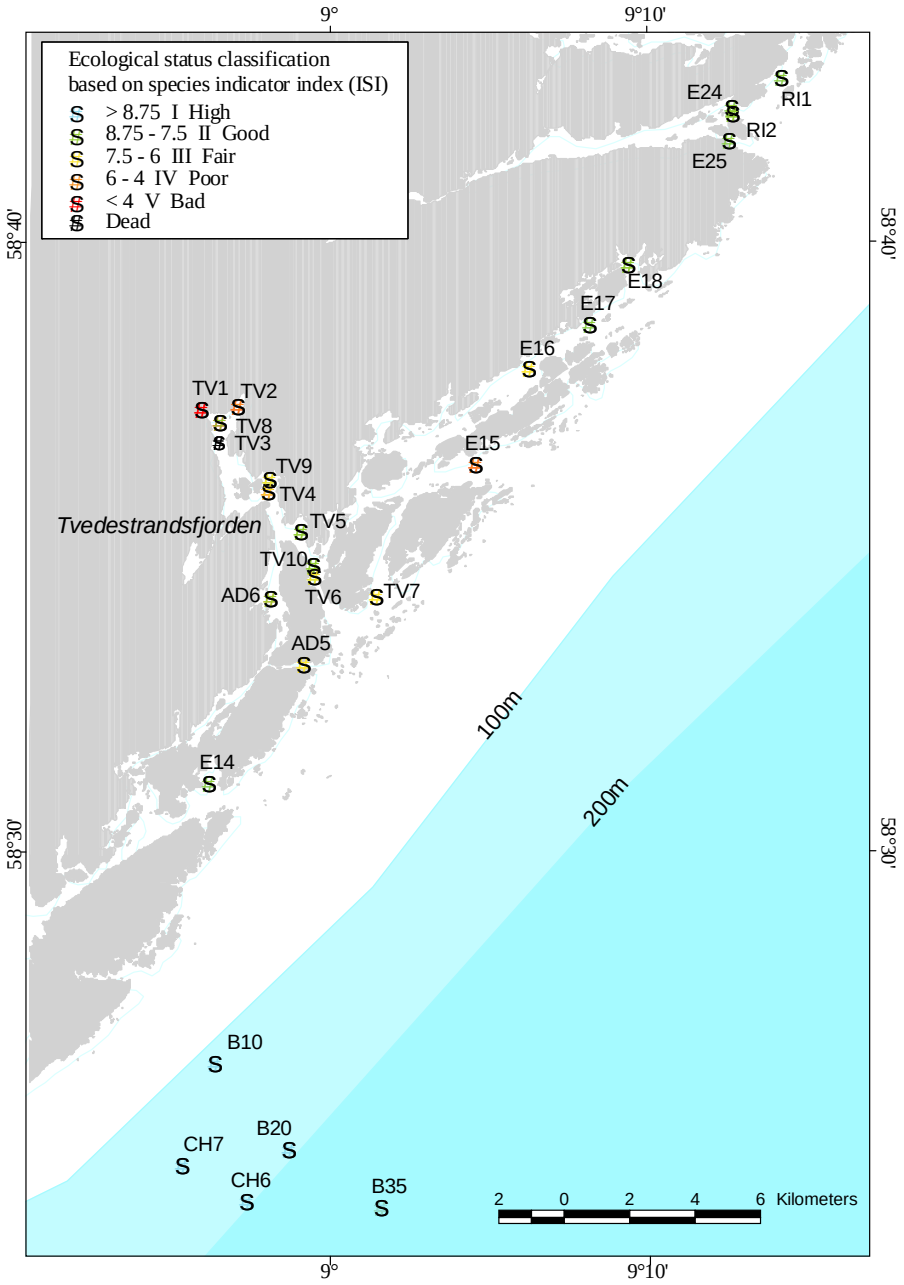

Figure 7. Average indicator species index values (ISI) at benthic stations in Tvedestrandsfjorden and adjacent marine areas

Tvedestrandsfjorden is a narrow fjord with three main basins and three thresholds with decreasing depths towards the inner part of the fjord. The innermost basin has a maximum depth of 87 m and is deeper than the basins further out. Most of the year the water masses are distinctly stratified and the deep water may have oxygen deficiency during long periods. Sawmill industries in the past have contributed heavy loads of wood particles to the sediments. Municipal sewage is discharged to the innermost part of the fjord.

The sampling stations outside Tvedestrandsfjorden were not situated in the vicinity of significant pollution sources, but some were situated in local basins where deep-water renewal may be restricted and accumulation of organic material may occur.

3.3 Hvaler area, southeastern Norway

Benthic fauna in the Hvaler area has been sampled several times in the 1980s and 1990s. At stations outwards from the estuary and in the basin east of the estuary, bad or poor fauna conditions were observed. This was ascribed mainly to oxygen deficiency in the deep water, caused by sedimentation of organic material from the river and restricted deep-water renewal. Industrial effluents also affect the area (Bokn & al. 1976).

Similar to the Lillesand and Tvedestrand areas, classification of community status in Hvaler has been based on faunal diversity (H') and the species indicator index (ISI) (**Figure 8** and **Figure 9**).

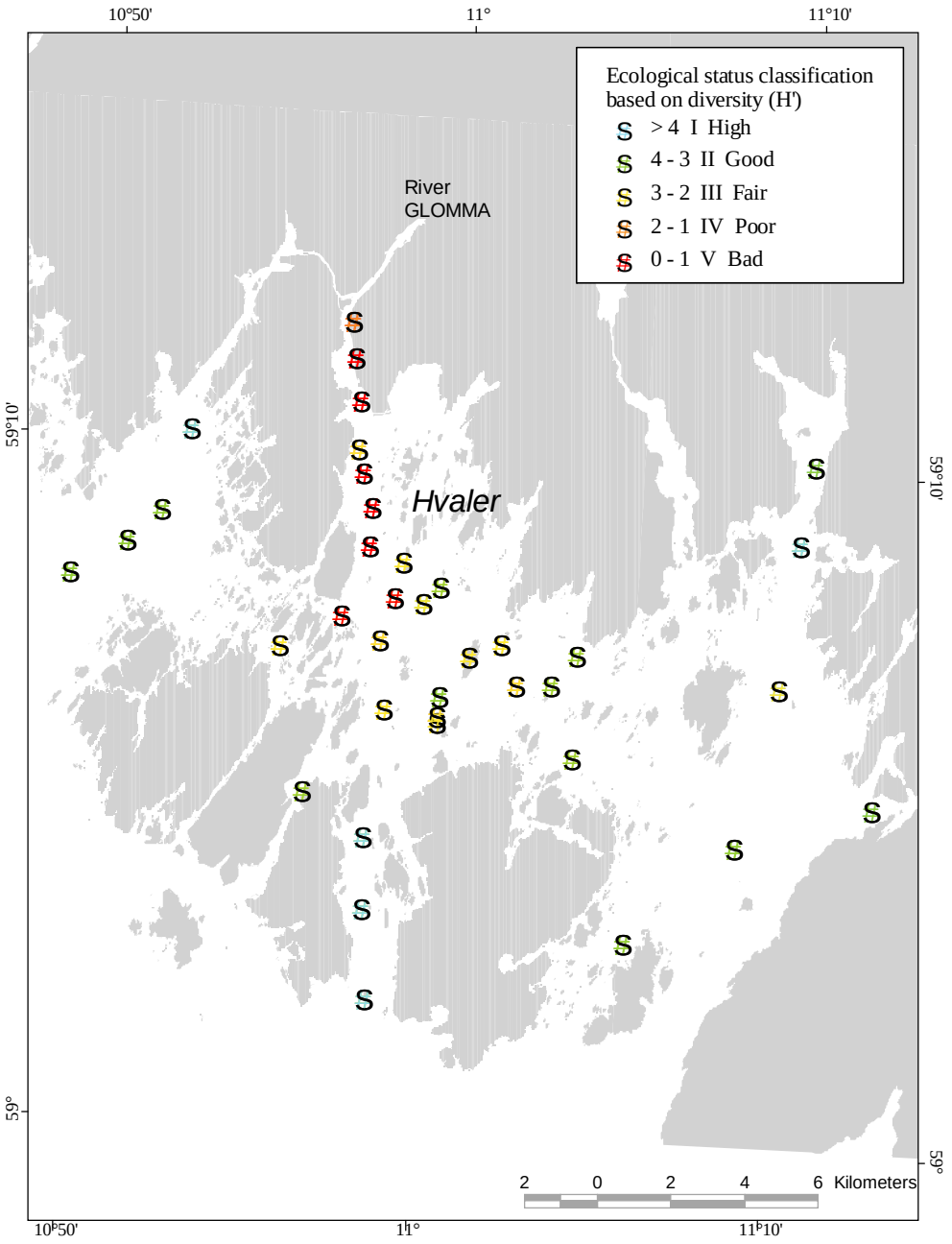

Figure 8. Average diversity (Shannon-Wiener) at benthic stations in the Hvaler area

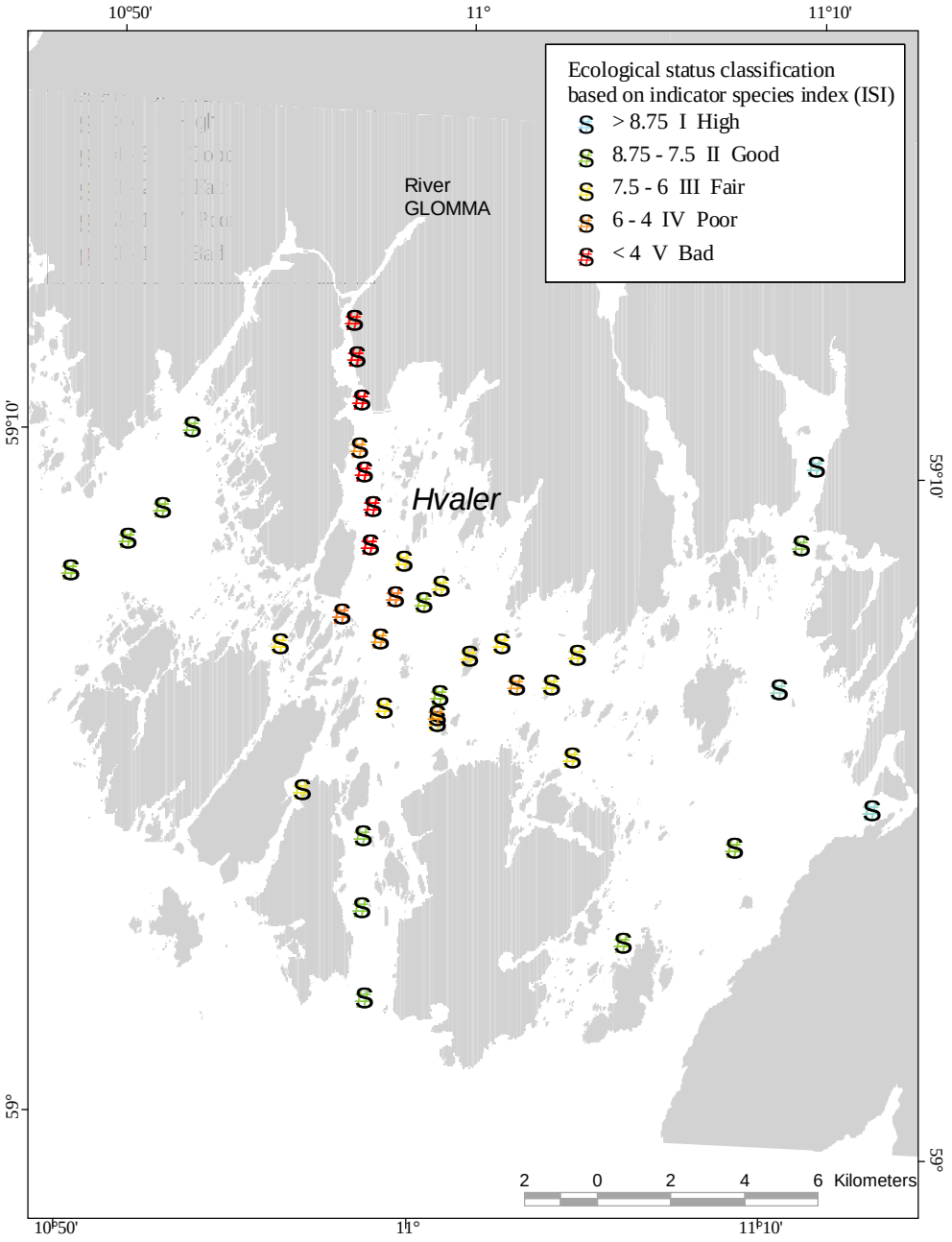

Figure 9. Average indicator species index (ISI) values at benthic stations in the Hvaler area

Classifications based on the diversity index H' followed the class intervals suggested by Molvær & al. (1997). For the ISI, tentative classes were used, based on frequency distribution percentiles equivalent to the H' classification (**Table 4**).

Table 4. Classification system for soft-bottom fauna based on faunal diversity (H') (Molvær & al. 1997) and a tentative classification using the indicator species index (ISI)

		Classes				
	Parameters	**I Very good**	**II Good**	**III Fair**	**IV Bad**	**V Very bad**
Diversity of soft-bottom fauna	Shannon-Wiener index (H', $\log_2$)	**>4**	**4-3**	**3-2**	**2-1**	**<1**
Indicator Species	Indicator species index (ISI)	**>8.75**	**8.75-7.5**	**7.5-6**	**6-4**	**4-0**

4. Discussion

Because the species sensitivity values were derived from diversity in the samples in which the species occurred, some correlation and redundancy between the indicator species index and diversity indices is expected. This could to some extent reduce the additional information power of the biotic index. Correlation between ISI and the other community parameters was evident, but there were also widely scattered points in the correlation plots (**Figure 4**). In many cases, biotic indices may respond to environmental stress not always reflected in the traditional numerical indices.

The indicator species index (ISI) has been in use for many years and applied to a large number of benthic samples from environmental investigations in Norway.

The index was developed using data from Norway (mostly southern Norway). The application of ISI to other areas may not be fully appropriate, as taxonomy can vary considerably.

Biotic indices for different areas will include more or less different species. Also, different approaches are used for establishing sensitivity values for species, making the values not directly commensurable. Formulas for calculating the biotic index of a sample also vary.

Creating an integrated biotic index for a wider geographical area requires that the sensitivy values of different sets of indicator species are harmonised. Using normalisation procedures, such as frequency distribution percentiles, or ranking, could fulfil such a task. Concensus on a standard formula for calculating the biotic index of a sample based on species sensitivity values is also required. Given adequate harmonisation, the problem of different approaches and varying taxonomy between areas should not be an obstacle for using a common biotic index over a wider geographical range.

Borja *et al*. (2000) classified over 900 taxa into five groups (I-V) based on sensitivity, tolerance and opportunism. Of these taxa, 107 were common with the taxa applied in the ISI index. After harmonisation by use of percentiles, the sensitivity classifications (classes I-V) in the two sets of taxa were compared. They revealed a fair degree of similarity. Nearly half (51) of the taxa were identically classified in the two sets, 39 taxa differed by one class, 12 differed by two classes, and 5 differed by three classes. The polychaetous species *Malacoceros fuliginosus, Capitella capitata, Polydora(Pseudopolydora)* spp., *Chaetozone setosa, Prionospio fallax, Cirratulus cirratus,* and oligochaetes, were similarly classified in the two sets of taxa as being tolerant and opportunistic. The greatest differences in classification concerned the polychaete *Pectinaria koreni* (tolerant in the ISI classification) and three *Prionospio* species (sensitive in the ISI classification).

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Appendix A. Complete list of species in the ISI taxonomic units

Group	Family	Species	ISI taxonomic unit	$ES_{100}min_5$
ANTHOZOA	Cerianthidae	Cerianthus lloydi Gosse	Cerianthus lloydi	9.91
ANTHOZOA	Cerianthidae	Cerianthus sp	Cerianthus lloydi	9.91
ANTHOZOA	Edwardsiidae	Edwardsia andresi Danielssen	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia cf. andresi Danielssen	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia cf. claparedii (Panceri)	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia cf. danica Carlgren	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia cf. longicornis Carlgren	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia cf. tuberculata Dueben & Koren	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia claparedii (Panceri)	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia danica Carlgren	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia longicornis Carlgren	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia sp	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsia tuberculata Dueben & Koren	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Edwardsiidae indet	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Paraedwardsia arenaria Carlgren	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Paraedwardsia cf. sarsi (Dueben & koren)	Edwardsiidae indet	7.588
ANTHOZOA	Edwardsiidae	Paraedwardsia sarsi (Dueben & koren)	Edwardsiidae indet	7.588
NEMERTINEA		Nemertinea indet	Nemertinea indet	4.43
POLYCHAETA	Amphinomidae	Paramphinome jeffreysii (McIntosh, 1868)	Paramphinome jeffreysii	6.182
POLYCHAETA	Amphinomidae	Paramphinome sp	Paramphinome jeffreysii	6.182
POLYCHAETA	Aphroditidae	Aphrodita aculeata Linne, 1758	Aphrodita aculeata	14.372
POLYCHAETA	Aphroditidae	Aphrodita sp	Aphrodita aculeata	14.372
POLYCHAETA	Polynoidae	Gattyana cirrosa (Pallas, 1766)	Gattyana cirrosa	5.908
POLYCHAETA	Polynoidae	Antinoella sarsi (Kinberg, 1865)	Harmothoe sarsi	13.54
POLYCHAETA	Polynoidae	Harmothoe cf. sarsi (Kinberg, 1865)	Harmothoe sarsi	13.54
POLYCHAETA	Polynoidae	Harmothoe sarsi (Kinberg, 1865)	Harmothoe sarsi	13.54
POLYCHAETA	Polynoidae	Harmothoe sp	Harmothoe sp	7.23
POLYCHAETA	Sigalionidae	Leanira tetragona (Oersted, 1844)	Leanira tetragona	8.194
POLYCHAETA	Sigalionidae	Neoleanira tetragona (Oersted, 1844)	Leanira tetragona	8.194
POLYCHAETA	Sigalionidae	Pholoe anoculata Hartmann, 1965	Pholoe anoculata	15.548
POLYCHAETA	Sigalionidae	Pholoe cf. anoculata Hartmann, 1965	Pholoe anoculata	15.548
POLYCHAETA	Sigalionidae	Pholoe cf. minuta (Fabricius, 1780)	Pholoe minuta	3.98
POLYCHAETA	Sigalionidae	Pholoe minuta (Fabricius, 1780)	Pholoe minuta	3.98
POLYCHAETA	Sigalionidae	Pholoe pallida Chambers, 1985	Pholoe pallida	16.362
POLYCHAETA	Sigalionidae	Pholoe sp	Pholoe sp	9.154
POLYCHAETA	Phyllodocidae	Eteone barbata Malmgren, 1865	Eteone sp	3.98
POLYCHAETA	Phyllodocidae	Eteone cf. barbata Malmgren, 1865	Eteone sp	3.98
POLYCHAETA	Phyllodocidae	Eteone cf. flava (Fabricius, 1780)	Eteone sp	3.98
POLYCHAETA	Phyllodocidae	Eteone cf. longa (Fabricius, 1780)	Eteone sp	3.98
POLYCHAETA	Phyllodocidae	Eteone flava (Fabricius, 1780)	Eteone sp	3.98
POLYCHAETA	Phyllodocidae	Eteone foliosa Quatrefages, 1866	Eteone sp	3.98
POLYCHAETA	Phyllodocidae	Eteone lactea Claparede, 1868	Eteone sp	3.98
POLYCHAETA	Phyllodocidae	Eteone longa (Fabricius, 1780)	Eteone sp	3.98

POLYCHAETA	Phyllodocidae	Eteone picta Quatrefages, 1865	Eteone sp	3.98
POLYCHAETA	Phyllodocidae	Eteone sp	Eteone sp	3.98
POLYCHAETA	Phyllodocidae	Anaitides cf. groenlandica (Oersted, 1842)	Phyllodoce groenlandica	3.658
POLYCHAETA	Phyllodocidae	Anaitides groenlandica (Oersted, 1842)	Phyllodoce groenlandica	3.658
POLYCHAETA	Phyllodocidae	Phyllodoce cf. groenlandica (Oersted, 1842)	Phyllodoce groenlandica	3.658
POLYCHAETA	Phyllodocidae	Phyllodoce groenlandica (Oersted, 1842)	Phyllodoce groenlandica	3.658
POLYCHAETA	Phyllodocidae	Anaitides sp	Phyllodoce sp	4.5
POLYCHAETA	Phyllodocidae	Phyllodoce sp	Phyllodoce sp	4.5
POLYCHAETA	Hesionidae	Gyptis cf. rosea (Malm, 1874)	Gyptis rosea	13.54
POLYCHAETA	Hesionidae	Gyptis rosea (Malm, 1874)	Gyptis rosea	13.54
POLYCHAETA	Hesionidae	Nereimyra punctata (O.F.Mueller, 1788)	Nereimyra punctata	7.164
POLYCHAETA	Hesionidae	Ophiodromus flexuosus (Delle Chiaje, 1822)	Ophiodromus flexuosus	3.76
POLYCHAETA	Pilargiidae	Synelmis klatti (Friedrich, 1950)	Synelmis klatti	10.198
POLYCHAETA	Syllidae	Exogone cf. hebes (Webster & Benedict, 1884)	Exogone sp	8.986
POLYCHAETA	Syllidae	Exogone cf. verugera (Claparede, 1868)	Exogone sp	8.986
POLYCHAETA	Syllidae	Exogone dispar (Webster, 1879)	Exogone sp	8.986
POLYCHAETA	Syllidae	Exogone hebes (Webster & Benedict, 1884)	Exogone sp	8.986
POLYCHAETA	Syllidae	Exogone naidina Oersted, 1845	Exogone sp	8.986
POLYCHAETA	Syllidae	Exogone sp	Exogone sp	8.986
POLYCHAETA	Syllidae	Exogone verugera (Claparede, 1868)	Exogone sp	8.986
POLYCHAETA	Syllidae	Typosyllis cornuta (Rathke, 1843)	Typosyllis cornuta	7.668
POLYCHAETA	Nereidae	Ceratocephale loveni Malmgren, 1867	Ceratocephale loveni	8.822
POLYCHAETA	Nereidae	Eunereis longissimus (Johnston, 1840)	Nereis sp	3.17
POLYCHAETA	Nereidae	Laeonereis glauca (Claparede, 1870)	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereidae indet	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereis cf. pelagica L.	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereis cf. zonata Malmgren, 1867	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereis diversicolor O.F.Mueller, 1776	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereis elitoralis Eliason, 1962	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereis longissima Johnston, 1840	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereis pelagica L.	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereis sp	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereis virens Sars, 1835	Nereis sp	3.17
POLYCHAETA	Nereidae	Nereis zonata Malmgren, 1867	Nereis sp	3.17
POLYCHAETA	Nereidae	Platynereis dumerilii (Audouin&Milne-Edwards, 1834)	Nereis sp	3.17
POLYCHAETA	Nereidae	Stauronereis caecus (Webster & Benedict, 1884)	Nereis sp	3.17
POLYCHAETA	Nephtyidae	Nephtys cf. ciliata (O.F.Mueller, 1776)	Nephtys ciliata	7.754
POLYCHAETA	Nephtyidae	Nephtys ciliata (O.F.Mueller, 1776)	Nephtys ciliata	7.754
POLYCHAETA	Nephtyidae	Nephtys cf. hombergii Savigny, 1818	Nephtys hombergii	8.4
POLYCHAETA	Nephtyidae	Nephtys hombergii Savigny, 1818	Nephtys hombergii	8.4
POLYCHAETA	Nephtyidae	Nephtys cf. incisa Malmgren, 1865	Nephtys incisa	12.178
POLYCHAETA	Nephtyidae	Nephtys incisa Malmgren, 1865	Nephtys incisa	12.178
POLYCHAETA	Nephtyidae	Nephtys cf. paradoxa Malm, 1874	Nephtys paradoxa	9.24
POLYCHAETA	Nephtyidae	Nephtys paradoxa Malm, 1874	Nephtys paradoxa	9.24
POLYCHAETA	Nephtyidae	Nephtys sp	Nephtys sp	6.74
POLYCHAETA	Sphaerodoridae	Sphaerodorum flavum Oersted, 1843	Sphaerodorum flavum	9.376
POLYCHAETA	Glyceridae	Glycera alba (O.F.Mueller, 1776)	Glycera alba	3.326
POLYCHAETA	Glyceridae	Glycera cf. alba (O.F.Mueller, 1776)	Glycera alba	3.326
POLYCHAETA	Glyceridae	Glycera capitata Oersted, 1843	Glycera lapidum	7.42
POLYCHAETA	Glyceridae	Glycera cf. capitata Oersted, 1843	Glycera lapidum	7.42
POLYCHAETA	Glyceridae	Glycera cf. lapidum (Eliason, 1920)	Glycera lapidum	7.42

POLYCHAETA	Glyceridae	Glycera lapidum (Eliason, 1920)	Glycera lapidum	7.42
POLYCHAETA	Glyceridae	Glycera cf. rouxii Audouin & Milne Edwards, 1833	Glycera rouxii	12.306
POLYCHAETA	Glyceridae	Glycera rouxii Audouin & Milne Edwards, 1833	Glycera rouxii	12.306
POLYCHAETA	Glyceridae	Glycera sp	Glycera sp	8.3
POLYCHAETA	Goniadidae	Glycinde nordmanni (Malmgren, 1865)	Glycinde nordmanni	9.54
POLYCHAETA	Goniadidae	Goniada maculata Oersted, 1843	Goniada maculata	5.16
POLYCHAETA	Onuphidae	Onuphis cf. quadricuspis M.Sars, 1872	Onuphis quadricuspis	12.772
POLYCHAETA	Onuphidae	Onuphis quadricuspis M.Sars, 1872	Onuphis quadricuspis	12.772
POLYCHAETA	Onuphidae	Paradiopatra quadricuspis (M. Sars, 1872)	Onuphis quadricuspis	12.772
POLYCHAETA	Onuphidae	Sarsonuphis quadricuspis (M.Sars, 1872)	Onuphis quadricuspis	12.772
POLYCHAETA	Lumbrineridae	Lumbrineris cf. fragilis (O.F.Mueller, 1766)	Lumbrineris fragilis	9.15
POLYCHAETA	Lumbrineridae	Lumbrineris fragilis (O.F.Mueller, 1766)	Lumbrineris fragilis	9.15
POLYCHAETA	Lumbrineridae	Scoletoma fragilis (O.F.Mueller, 1776)	Lumbrineris fragilis	9.15
POLYCHAETA	Lumbrineridae	Abyssoninoe scopa (Fauchald, 1974)	Lumbrineris scopa	14.092
POLYCHAETA	Lumbrineridae	Lumbrineris cf. scopa Fauchald, 1974	Lumbrineris scopa	14.092
POLYCHAETA	Lumbrineridae	Lumbrineris scopa Fauchald, 1974	Lumbrineris scopa	14.092
POLYCHAETA	Lumbrineridae	Lumbrineris sp	Lumbrineris sp	7.814
POLYCHAETA	Arabellidae	Drilonereis filum (Claparede, 1868)	Drilonereis filum	12.474
POLYCHAETA	Dorvilleidae	Protodorvillea cf. kefersteini (McIntosh, 1869)	Protodorvillea kefersteini	5.724
POLYCHAETA	Dorvilleidae	Protodorvillea kefersteini (McIntosh, 1869)	Protodorvillea kefersteini	5.724
POLYCHAETA	Orbiniidae	Orbinia cf. norvegica (M.Sars, 1872)	Orbinia norvegica	12.31
POLYCHAETA	Orbiniidae	Orbinia norvegica (M.Sars, 1872)	Orbinia norvegica	12.31
POLYCHAETA	Orbiniidae	Phylo norvegica (M.Sars, 1872)	Orbinia norvegica	12.31
POLYCHAETA	Orbiniidae	Scoloplos armiger (O.F.Mueller, 1776)	Scoloplos armiger	6.55
POLYCHAETA	Orbiniidae	Scoloplos cf. armiger (O.F.Mueller, 1776)	Scoloplos armiger	6.55
POLYCHAETA	Apistobranchidae	Apistobranchus tullbergi (Theel, 1879)	Apistobranchus tullbergi	12.626
POLYCHAETA	Paraonidae	Aricidea albatrossae Pettibone, 1957	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea catherinae Laubier, 1967	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea cerrutii Laubier, 1966	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea cf. albatrossae Pettibone, 1957	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea cf. catherinae Laubier, 1967	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea cf. quadrilobata Webster&Benedict	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea cf. simonae Laubier & Ramos, 1974	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea cf. suecica Eliason, 1920	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea cf. wassi Pettibone, 1965	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea jeffreysii (McIntosh, 1879)	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea laubieri Hartley, 1981	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea minuta Southward, 1956	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea quadrilobata Webster&Benedict, 1887	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea roberti Hartley, 1983	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea simonae Laubier & Ramos, 1974	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea sp	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea suecica Eliason, 1920	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Aricidea wassi Pettibone, 1965	Aricidea sp	13.69
POLYCHAETA	Paraonidae	Levinsenia gracilis (Tauber, 1879)	Paraonis gracilis	9.716
POLYCHAETA	Paraonidae	Paraonis cf. gracilis (Tauber, 1879)	Paraonis gracilis	9.716
POLYCHAETA	Paraonidae	Paraonis gracilis (Tauber, 1879)	Paraonis gracilis	9.716
POLYCHAETA	Paraonidae	Paradoneis cf. lyra (Southern, 1914)	Paradoneis lyra	9.556
POLYCHAETA	Paraonidae	Paradoneis lyra (Southern, 1914)	Paradoneis lyra	9.556
POLYCHAETA	Trochochaetidae	Trochochaeta multisetosa (Oersted, 1843)	Trochochaeta multisetosa	5.42
POLYCHAETA	Spionidae	Laonice cirrata (M.Sars, 1851)	Laonice cirrata	10.244

POLYCHAETA	Spionidae	Malacoceros fuliginosus (Claparede, 1868)	Malacoceros fuliginosus	3.55
POLYCHAETA	Spionidae	Scolelepis fuliginosus (Claparede, 1868)	Malacoceros fuliginosus	3.55
POLYCHAETA	Spionidae	Polydora antennata Claparede, 1868	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora caeca (Oersted, 1843)	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora caulleryi Mesnil, 1897	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora cf. caeca (Oersted, 1843)	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora cf. caulleryi Mesnil, 1897	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora cf. ciliata (Johnston, 1838)	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora cf. flava Claparede, 1870	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora cf. ligni Webster, 1879	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora cf. socialis (Schmarda, 1861)	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora ciliata (Johnston, 1838)	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora flava Claparede, 1870	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora giardi Mesnil, 1896	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora ligni Webster, 1879	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora pulchra Carazzi, 1895	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora quadrilobata Jacobi, 1883	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora socialis (Schmarda, 1861)	Polydora sp	2.836
POLYCHAETA	Spionidae	Polydora sp	Polydora sp	2.836
POLYCHAETA	Spionidae	Pseudopolydora antennata (Claparede, 1868)	Polydora sp	2.836
POLYCHAETA	Spionidae	Pseudopolydora caulleryi (Mesnil, 1897)	Polydora sp	2.836
POLYCHAETA	Spionidae	Pseudopolydora cf. caulleryi (Mesnil, 1897)	Polydora sp	2.836
POLYCHAETA	Spionidae	Pseudopolydora cf. paucibranchiata Czerniaavsky	Polydora sp	2.836
POLYCHAETA	Spionidae	Pseudopolydora cf. pulchra (Carazzi, 1895)	Polydora sp	2.836
POLYCHAETA	Spionidae	Pseudopolydora paucibranchiata Czerniaavsky	Polydora sp	2.836
POLYCHAETA	Spionidae	Pseudopolydora pulchra (Carazzi, 1895)	Polydora sp	2.836
POLYCHAETA	Spionidae	Pseudopolydora sp	Polydora sp	2.836
POLYCHAETA	Spionidae	Prionospio cf. cirrifera Wiren, 1883	Prionospio cirrifera	7.566
POLYCHAETA	Spionidae	Prionospio cirrifera Wiren, 1883	Prionospio cirrifera	7.566
POLYCHAETA	Spionidae	Prionospio cf. fallax Soederstroem, 1920	Prionospio fallax	4.27
POLYCHAETA	Spionidae	Prionospio fallax Soederstroem, 1920	Prionospio fallax	4.27
POLYCHAETA	Spionidae	Prionospio cf. multibranchiata Berkeley, 1927	Prionospio multibranchiata	13.94
POLYCHAETA	Spionidae	Prionospio multibranchiata Berkeley, 1927	Prionospio multibranchiata	13.94
POLYCHAETA	Spionidae	Prionospio cf. steenstrupi Malmgren, 1867	Prionospio steenstrupi	17.862
POLYCHAETA	Spionidae	Prionospio steenstrupi Malmgren, 1867	Prionospio steenstrupi	17.862
POLYCHAETA	Spionidae	Prionospio sp	Prionospio sp	11.706
POLYCHAETA	Spionidae	Scolelepis cf. foliosa (Audouin & Milne-Edwards)	Scolelepis sp	10.284
POLYCHAETA	Spionidae	Scolelepis cf. korsuni Sikorski, 1994	Scolelepis sp	10.284
POLYCHAETA	Spionidae	Scolelepis cf. tridentata Southern, 1914	Scolelepis sp	10.284
POLYCHAETA	Spionidae	Scolelepis foliosa (Audouin & Milne-Edwards)	Scolelepis sp	10.284
POLYCHAETA	Spionidae	Scolelepis korsuni Sikorski, 1994	Scolelepis sp	10.284
POLYCHAETA	Spionidae	Scolelepis sp	Scolelepis sp	10.284
POLYCHAETA	Spionidae	Scolelepis tridentata Southern, 1914	Scolelepis sp	10.284
POLYCHAETA	Spionidae	Spio filicornis (O.F.Mueller, 1766)	Spio filicornis	8.138
POLYCHAETA	Spionidae	Spiophanes cf. kroeyeri Grube, 1860	Spiophanes kroeyeri	7.056
POLYCHAETA	Spionidae	Spiophanes kroeyeri Grube, 1860	Spiophanes kroeyeri	7.056
POLYCHAETA	Magelonidae	Magelona cf. minuta Eliason, 1962	Magelona minuta	14.638
POLYCHAETA	Magelonidae	Magelona minuta Eliason, 1962	Magelona minuta	14.638
POLYCHAETA	Chaetopteridae	Spiochaetopterus typicus M.Sars, 1856	Spiochaetopterus typicus	8.232
POLYCHAETA	Cirratulidae	Caulleriella cf. killariensis (Southern, 1914)	Caulleriella sp	7.182
POLYCHAETA	Cirratulidae	Caulleriella cf. serrata Eliason, 1962	Caulleriella sp	7.182

POLYCHAETA	Cirratulidae	Caulleriella cf. zetlandica (McIntosh, 1911)	Caulleriella sp	7.182
POLYCHAETA	Cirratulidae	Caulleriella killariensis (Southern, 1914)	Caulleriella sp	7.182
POLYCHAETA	Cirratulidae	Caulleriella serrata Eliason, 1962	Caulleriella sp	7.182
POLYCHAETA	Cirratulidae	Caulleriella sp	Caulleriella sp	7.182
POLYCHAETA	Cirratulidae	Caulleriella zetlandica (McIntosh, 1911)	Caulleriella sp	7.182
POLYCHAETA	Cirratulidae	Chaetozone setosa Malmgren, 1867	Chaetozone setosa	4.174
POLYCHAETA	Cirratulidae	Cirratulus cirratus (O.F.Mueller, 1776)	Cirratulus cirratus	4.552
POLYCHAETA	Cirratulidae	Tharyx cf. killariensis (Southern, 1914)	Tharyx sp	6.914
POLYCHAETA	Cirratulidae	Tharyx cf. marioni (Saint-Joseph, 1894)	Tharyx sp	6.914
POLYCHAETA	Cirratulidae	Tharyx cf. mcintoshi (Southern, 1914)	Tharyx sp	6.914
POLYCHAETA	Cirratulidae	Tharyx killariensis (Southern, 1914)	Tharyx sp	6.914
POLYCHAETA	Cirratulidae	Tharyx marioni (Saint-Joseph, 1894)	Tharyx sp	6.914
POLYCHAETA	Cirratulidae	Tharyx mcintoshi (Southern, 1914)	Tharyx sp	6.914
POLYCHAETA	Cirratulidae	Tharyx sp	Tharyx sp	6.914
POLYCHAETA	Cirratulidae	Tharyx sp.2	Tharyx sp	6.914
POLYCHAETA	Cirratulidae	Tharyx/Caulleriella sp	Tharyx sp	6.914
POLYCHAETA	Cossuridae	Cossura longocirrata Webster & Benedict, 1887	Cossura longocirrata	5.182
POLYCHAETA	Flabelligeridae	Brada cf. villosa (Rathke, 1843)	Brada villosa	11.466
POLYCHAETA	Flabelligeridae	Brada sp	Brada villosa	11.466
POLYCHAETA	Flabelligeridae	Brada villosa (Rathke, 1843)	Brada villosa	11.466
POLYCHAETA	Flabelligeridae	Diplocirrus glaucus (Malmgren, 1867)	Diplocirrus glaucus	8.438
POLYCHAETA	Scalibregmidae	Polyphysia crassa (Oersted, 1843)	Polyphysia crassa	7.018
POLYCHAETA	Scalibregmidae	Scalibregma inflatum Rathke, 1843	Scalibregma inflatum	5.63
POLYCHAETA	Opheliidae	Ophelina acuminata Oersted, 1843	Ophelina acuminata	7.404
POLYCHAETA	Opheliidae	Ophelina cf. acuminata Oersted, 1843	Ophelina acuminata	7.404
POLYCHAETA	Opheliidae	Ophelina cf. cylindricaudata (Hansen, 1878)	Ophelina cylindricaudata	16.392
POLYCHAETA	Opheliidae	Ophelina cylindricaudata (Hansen, 1878)	Ophelina cylindricaudata	16.392
POLYCHAETA	Opheliidae	Ophelina cf. norvegica Stoep-Bowitz, 1945	Ophelina norvegica	14.258
POLYCHAETA	Opheliidae	Ophelina norvegica Stoep-Bowitz, 1945	Ophelina norvegica	14.258
POLYCHAETA	Opheliidae	Ophelina sp	Ophelina sp	11.232
POLYCHAETA	Capitellidae	Capitella capitata (Fabricius, 1780)	Capitella capitata	2.46
POLYCHAETA	Capitellidae	Capitella sp	Capitella capitata	2.46
POLYCHAETA	Capitellidae	Heteromastus filiformis (Claparede, 1864)	Heteromastus filiformis	3.76
POLYCHAETA	Capitellidae	Mediomastus fragilis Rasmussen, 1973	Mediomastus fragilis	5.87
POLYCHAETA	Capitellidae	Notomastus latericeus Sars, 1851	Notomastus latericeus	10.946
POLYCHAETA	Maldanidae	Asychis biceps (M.Sars, 1861)	Asychis biceps	14.194
POLYCHAETA	Maldanidae	Euclymeninae indet	Euclymeninae indet	12.146
POLYCHAETA	Maldanidae	Euclymene sp	Euclymene sp	13.236
POLYCHAETA	Maldanidae	Maldane sarsi Malmgren, 1865	Maldane sarsi	7.768
POLYCHAETA	Maldanidae	Rhodine cf. gracilior Tauber , 1879	Rhodine gracilior	13.442
POLYCHAETA	Maldanidae	Rhodine gracilior Tauber , 1879	Rhodine gracilior	13.442
POLYCHAETA	Maldanidae	Rhodine cf. loveni Malmgren, 1865	Rhodine loveni	10.638
POLYCHAETA	Maldanidae	Rhodine loveni Malmgren, 1865	Rhodine loveni	10.638
POLYCHAETA	Oweniidae	Myriochele oculata Zaks, 1922	Myriochele oculata	6.038
POLYCHAETA	Oweniidae	Myriochele sp	Myriochele sp	9.294
POLYCHAETA	Oweniidae	Owenia fusiformis Delle Chiaje, 1841	Owenia fusiformis	8.906
POLYCHAETA	Pectinariidae	Pectinaria auricoma (O.F.Mueller, 1776)	Pectinaria auricoma	10.072
POLYCHAETA	Pectinariidae	Pectinaria cf. auricoma (O.F.Mueller, 1776)	Pectinaria auricoma	10.072
POLYCHAETA	Pectinariidae	Pectinaria belgica (Pallas, 1766)	Pectinaria belgica	12.824
POLYCHAETA	Pectinariidae	Pectinaria koreni Malmgren, 1865	Pectinaria koreni	3.892
POLYCHAETA	Ampharetidae	Amage auricula Malmgren, 1865	Amage auricula	16.948

POLYCHAETA	Ampharetidae	Amphicteis gunneri (M.Sars, 1835)	Amphicteis gunneri	9.156
POLYCHAETA	Ampharetidae	Ampharete balthica Eliason, 1955	Ampharete sp	9.668
POLYCHAETA	Ampharetidae	Ampharete cf. falcata Eliason, 1955	Ampharete sp	9.668
POLYCHAETA	Ampharetidae	Ampharete cf. finmarchica (M.Sars, 1864)	Ampharete sp	9.668
POLYCHAETA	Ampharetidae	Ampharete cf. lindstroemi Malmgren, 1867	Ampharete sp	9.668
POLYCHAETA	Ampharetidae	Ampharete falcata Eliason, 1955	Ampharete sp	9.668
POLYCHAETA	Ampharetidae	Ampharete finmarchica (M.Sars, 1864)	Ampharete sp	9.668
POLYCHAETA	Ampharetidae	Ampharete lindstroemi Malmgren, 1867	Ampharete sp	9.668
POLYCHAETA	Ampharetidae	Ampharete sp	Ampharete sp	9.668
POLYCHAETA	Ampharetidae	Amythasides macroglossus Eliason, 1955	Amythasides macroglossus	11.95
POLYCHAETA	Ampharetidae	Anobothrus gracilis (Malmgren, 1865)	Anobothrus gracilis	7.412
POLYCHAETA	Ampharetidae	Sosane gracilis (Malmgren, 1865)	Anobothrus gracilis	7.412
POLYCHAETA	Ampharetidae	Eclysippe vanelli (Fauvel, 1936)	Eclysippe vanelli	15.638
POLYCHAETA	Ampharetidae	Melinna cristata (M.Sars, 1851)	Melinna cristata	9.326
POLYCHAETA	Ampharetidae	Mugga wahrbergi Eliason, 1955	Mugga wahrbergi	12.07
POLYCHAETA	Ampharetidae	Sabellides cf. octocirrata (M.Sars, 1835)	Sabellides octocirrata	12.422
POLYCHAETA	Ampharetidae	Sabellides octocirrata (M.Sars, 1835)	Sabellides octocirrata	12.422
POLYCHAETA	Ampharetidae	Samytha sexcirrata M.Sars, 1856	Samytha sexcirrata	13.408
POLYCHAETA	Ampharetidae	Sosane sulcata Malmgren, 1865	Sosane sulcata	12.092
POLYCHAETA	Terebellidae	Amaeana trilobata (M.Sars, 1863)	Amaeana trilobata	14.538
POLYCHAETA	Terebellidae	Lanassa venusta (Malm, 1874)	Lanassa venusta	13.016
POLYCHAETA	Terebellidae	Paramphitrite tetrabranchiata Holthe, 1976	Paramphitrite tetrabranchiata	20.914
POLYCHAETA	Terebellidae	Pista cristata (O.F.Mueller, 1776)	Pista cristata	11.348
POLYCHAETA	Terebellidae	Polycirrus cf. plumosus (Wollebaek, 1912)	Polycirrus plumosus	11.42
POLYCHAETA	Terebellidae	Polycirrus plumosus (Wollebaek, 1912)	Polycirrus plumosus	11.42
POLYCHAETA	Terebellidae	Polycirrus sp	Polycirrus sp	11.706
POLYCHAETA	Terebellidae	Proclea graffii (Langerhans, 1884)	Proclea graffii	14.072
POLYCHAETA	Terebellidae	Streblosoma bairdi (Malmgren, 1865)	Streblosoma bairdi	15.624
POLYCHAETA	Terebellidae	Streblosoma intestinalis M.Sars, 1872	Streblosoma intestinalis	16.684
POLYCHAETA	Trichobranchidae	Terebellides stroemi M.Sars, 1835	Terebellides stroemi	9.508
POLYCHAETA	Trichobranchidae	Trichobranchus roseus (Malm, 1874)	Trichobranchus roseus	11.462
POLYCHAETA	Sabellidae	Chone cf. collaris Langerhans	Chone sp	7.244
POLYCHAETA	Sabellidae	Chone cf. duneri Malmgren, 1867	Chone sp	7.244
POLYCHAETA	Sabellidae	Chone cf. infundibuliformis Kroeyer, 1856	Chone sp	7.244
POLYCHAETA	Sabellidae	Chone collaris Langerhans	Chone sp	7.244
POLYCHAETA	Sabellidae	Chone duneri Malmgren, 1867	Chone sp	7.244
POLYCHAETA	Sabellidae	Chone filicaudata Southern, 1914	Chone sp	7.244
POLYCHAETA	Sabellidae	Chone infundibuliformis Kroeyer, 1856	Chone sp	7.244
POLYCHAETA	Sabellidae	Chone sp	Chone sp	7.244
POLYCHAETA	Sabellidae	Euchone cf. papillosa (M.Sars, 1851)	Euchone papillosa	10.586
POLYCHAETA	Sabellidae	Euchone papillosa (M.Sars, 1851)	Euchone papillosa	10.586
POLYCHAETA	Sabellidae	Euchone analis (Kroeyer, 1856)	Euchone sp	7.874
POLYCHAETA	Sabellidae	Euchone cf. analis (Kroeyer, 1856)	Euchone sp	7.874
POLYCHAETA	Sabellidae	Euchone cf. rubrocincta (M.Sars, 1861)	Euchone sp	7.874
POLYCHAETA	Sabellidae	Euchone rubrocincta (M.Sars, 1861)	Euchone sp	7.874
POLYCHAETA	Sabellidae	Euchone southerni	Euchone sp	7.874
POLYCHAETA	Sabellidae	Euchone sp	Euchone sp	7.874
POLYCHAETA	Sabellidae	Jasmineira candela (Grube, 1863)	Jasmineira sp	4.938
POLYCHAETA	Sabellidae	Jasmineira elegans Saint-Joseph, 1894	Jasmineira sp	4.938
POLYCHAETA	Sabellidae	Jasmineira oculata	Jasmineira sp	4.938
POLYCHAETA	Sabellidae	Jasmineira sp	Jasmineira sp	4.938

OLIGOCHAETA		Oligochaeta indet	Oligochaeta indet	2.432
OLIGOCHAETA		Tubificoides benedii (Udekem, 1855)	Oligochaeta indet	2.432
OLIGOCHAETA		Tubificoides sp	Oligochaeta indet	2.432
PROSOBRANCHIA	Rissoidae	Onoba vitrea (Montagu)	Onoba vitrea	12.816
PROSOBRANCHIA	Naticidae	Lunatia alderi (Forbes)	Lunatia alderi	8.68
PROSOBRANCHIA	Naticidae	Natica alderi Forbes	Lunatia alderi	8.68
OPISTOBRANCHIA	Philinidae	Philine cf. quadrata (S.Wood)	Philine quadrata	9.416
OPISTOBRANCHIA	Philinidae	Philine quadrata (S.Wood)	Philine quadrata	9.416
OPISTOBRANCHIA	Philinidae	Philine cf. scabra (O.F.Mueller, 1776)	Philine scabra	8.914
OPISTOBRANCHIA	Philinidae	Philine scabra (O.F.Mueller, 1776)	Philine scabra	8.914
OPISTOBRANCHIA	Scaphandridae	Cylichna alba (Brown)	Cylichna sp	9.946
OPISTOBRANCHIA	Scaphandridae	Cylichna cf. alba (Brown)	Cylichna sp	9.946
OPISTOBRANCHIA	Scaphandridae	Cylichna cylindracea (Pennant, 1777)	Cylichna sp	9.946
OPISTOBRANCHIA	Scaphandridae	Cylichna occulta (Mighels & Adams)	Cylichna sp	9.946
OPISTOBRANCHIA	Scaphandridae	Cylichna sp	Cylichna sp	9.946
CAUDOFOVEATA		Caudofoveata indet	Caudofoveata indet	7.488
CAUDOFOVEATA	Limifossoridae	Scutopus ventrolineatus Salvini-Plawen, 1968	Scutopus ventrolineatus	14.694
CAUDOFOVEATA	Chaetodermatidae	Chaetoderma nitidulum Loven, 1845	Chaetoderma nitidulum	9.852
BIVALVIA	Nuculidae	Nucula cf. sulcata (Bronn, 1831)	Nucula sulcata	12.918
BIVALVIA	Nuculidae	Nucula sulcata (Bronn, 1831)	Nucula sulcata	12.918
BIVALVIA	Nuculidae	Ennucula tenuis (Montagu, 1808)	Nuculoma tenuis	7.318
BIVALVIA	Nuculidae	Nuculoma cf. tenuis (Montagu)	Nuculoma tenuis	7.318
BIVALVIA	Nuculidae	Nuculoma tenuis (Montagu)	Nuculoma tenuis	7.318
BIVALVIA	Nuculidae	Nucula cf. tumidula (Malm)	Nucula tumidula	12.768
BIVALVIA	Nuculidae	Nucula tumidula (Malm)	Nucula tumidula	12.768
BIVALVIA	Nuculidae	Nucula cf. turgida Leckenby & Marshall	Nucula turgida	9.434
BIVALVIA	Nuculidae	Nucula nitidosa (Winckworth)	Nucula turgida	9.434
BIVALVIA	Nuculidae	Nucula turgida Leckenby & marshall	Nucula turgida	9.434
BIVALVIA	Nuculanidae	Nuculana cf. minuta (Mueller, 1776)	Nuculana minuta	16.506
BIVALVIA	Nuculanidae	Nuculana minuta (Mueller, 1776)	Nuculana minuta	16.506
BIVALVIA	Nuculanidae	Yoldiella cf. fraterna Verrill & Bush	Yoldiella fraterna	12.544
BIVALVIA	Nuculanidae	Yoldiella fraterna Verrill & Bush	Yoldiella fraterna	12.544
BIVALVIA	Nuculanidae	Yoldiella cf. lucida (Loven, 1846)	Yoldiella lucida	11.182
BIVALVIA	Nuculanidae	Yoldiella lucida (Loven, 1846)	Yoldiella lucida	11.182
BIVALVIA	Nuculanidae	Yoldiella tomlini Winckworth, 1932	Yoldiella tomlini	15.256
BIVALVIA	Lucinidae	Lucinoma borealis (Linne, 1767)	Lucinoma borealis	7.936
BIVALVIA	Lucinidae	Myrtea spinifera (Montagu)	Myrtea spinifera	8.19
BIVALVIA	Thyasiridae	Thyasira cf. croulinensis (Jeffreys)	Thyasira croulinensis	16.762
BIVALVIA	Thyasiridae	Thyasira croulinensis (Jeffreys)	Thyasira croulinensis	16.762
BIVALVIA	Thyasiridae	Thyasira cf. equalis (Verrill & Bush)	Thyasira equalis	6.846
BIVALVIA	Thyasiridae	Thyasira equalis (Verrill & Bush)	Thyasira equalis	6.846
BIVALVIA	Thyasiridae	Thyasira cf. ferruginea (Forbes)	Thyasira ferruginea	10.998
BIVALVIA	Thyasiridae	Thyasira ferruginea (Forbes)	Thyasira ferruginea	10.998
BIVALVIA	Thyasiridae	Thyasira cf. flexuosa (Montagu, 1803)	Thyasira flexuosa	6.578
BIVALVIA	Thyasiridae	Thyasira flexuosa (Montagu, 1803)	Thyasira flexuosa	6.578
BIVALVIA	Thyasiridae	Thyasira cf. obsoleta (Verrill & Bush)	Thyasira obsoleta	13.454
BIVALVIA	Thyasiridae	Thyasira obsoleta (Verrill & Bush)	Thyasira obsoleta	13.454
BIVALVIA	Thyasiridae	Thyasira cf. pygmaea (Verrill & Bush)	Thyasira pygmaea	13.412
BIVALVIA	Thyasiridae	Thyasira pygmaea (Verrill & Bush)	Thyasira pygmaea	13.412
BIVALVIA	Thyasiridae	Thyasira cf. sarsi (Philippi, 1845)	Thyasira sarsi	4.262
BIVALVIA	Thyasiridae	Thyasira sarsi (Philippi, 1845)	Thyasira sarsi	4.262

BIVALVIA	Thyasiridae	Thyasira sp	Thyasira sp	9.498
BIVALVIA	Lasaeidae	Montacuta cf. ferruginosa (Montagu, 1803)	Montacuta sp	10.876
BIVALVIA	Lasaeidae	Montacuta cf. tenella Loven	Montacuta sp	10.876
BIVALVIA	Lasaeidae	Montacuta ferruginosa (Montagu, 1803)	Montacuta sp	10.876
BIVALVIA	Lasaeidae	Montacuta sp	Montacuta sp	10.876
BIVALVIA	Lasaeidae	Montacuta tenella Loven	Montacuta sp	10.876
BIVALVIA	Lasaeidae	Mysella bidentata (Montagu, 1803)	Mysella bidentata	5.24
BIVALVIA	Astartidae	Astarte elliptica Brown, 1827	Astarte elliptica	14.44
BIVALVIA	Astartidae	Astarte sulcata (Da Costa, 1778)	Astarte sulcata	16.052
BIVALVIA	Cardiidae	Parvicardium minimum (Philippi, 1836)	Parvicardium minimum	10.306
BIVALVIA	Tellinidae	Macoma calcarea (Gmelin, 1790)	Macoma calcarea	7.198
BIVALVIA	Tellinidae	Macoma cf. calcarea (Gmelin, 1790)	Macoma calcarea	7.198
BIVALVIA	Scrobiculariidae	Abra alba (W.Wood, 1802)	Abra alba	6.9
BIVALVIA	Scrobiculariidae	Abra cf. alba (W.Wood, 1802)	Abra alba	6.9
BIVALVIA	Scrobiculariidae	Abra cf. nitida (Mueller, 1789)	Abra nitida	6.444
BIVALVIA	Scrobiculariidae	Abra nitida (Mueller, 1789)	Abra nitida	6.444
BIVALVIA	Arcticidae	Arctica islandica (Linne, 1767)	Arctica islandica	10.534
BIVALVIA	Kelliellidae	Kelliella miliaris (Philippi, 1844)	Kelliella miliaris	10.162
BIVALVIA	Veneridae	Venus ovata Pennant	Venus ovata	15.582
BIVALVIA	Corbulidae	Corbula gibba (Olivi, 1792)	Corbula gibba	3.79
BIVALVIA	Thraciidae	Thracia cf. myopsis (Moeller)	Thracia sp	13.104
BIVALVIA	Thraciidae	Thracia cf. phaseolina (Lamarck)	Thracia sp	13.104
BIVALVIA	Thraciidae	Thracia cf. rectangularis Soot-Ryen	Thracia sp	13.104
BIVALVIA	Thraciidae	Thracia myopsis (Moeller)	Thracia sp	13.104
BIVALVIA	Thraciidae	Thracia phaseolina (Lamarck)	Thracia sp	13.104
BIVALVIA	Thraciidae	Thracia sp	Thracia sp	13.104
BIVALVIA	Thraciidae	Thracia sp	Thracia sp	13.104
BIVALVIA	Thraciidae	Thracia sp	Thracia sp	13.104
BIVALVIA	Thraciidae	Thracia villosiuscula (Macgillivray)	Thracia sp	13.104
BIVALVIA	Cuspidariidae	Cuspidaria abbreviata (Forbes)	Cuspidaria sp	11.796
BIVALVIA	Cuspidariidae	Cuspidaria cf. obesa (Loven, 1846)	Cuspidaria sp	11.796
BIVALVIA	Cuspidariidae	Cuspidaria costellata (Deshayes)	Cuspidaria sp	11.796
BIVALVIA	Cuspidariidae	Cuspidaria cuspidata (Olivi)	Cuspidaria sp	11.796
BIVALVIA	Cuspidariidae	Cuspidaria jugosa (Wood)	Cuspidaria sp	11.796
BIVALVIA	Cuspidariidae	Cuspidaria lamellosa (G.O.Sars)	Cuspidaria sp	11.796
BIVALVIA	Cuspidariidae	Cuspidaria obesa (Loven, 1846)	Cuspidaria sp	11.796
BIVALVIA	Cuspidariidae	Cuspidaria rostrata (Spengler)	Cuspidaria sp	11.796
BIVALVIA	Cuspidariidae	Cuspidaria sp	Cuspidaria sp	11.796
BIVALVIA	Cuspidariidae	Tropidomya abbreviata (Forbes, 1843)	Cuspidaria sp	11.796
SCAPHOPODA	Dentaliidae	Dentalium entale Linne	Dentalium entale	14.574
SCAPHOPODA	Entalinidae	Entalina quinquangularis (Forbes)	Entalina quinquangularis	16.902
OSTRACODA	Cypridinidae	Philomedes globosus Lilljeborg	Philomedes globosus	11.73
OSTRACODA	Cypridinidae	Philomedes lilljeborgi G.O.Sars	Philomedes lilljeborgi	11.992
CUMACEA	Leuconidae	Eudorella cf. emarginata Kroeyer	Eudorella emarginata	9.972
CUMACEA	Leuconidae	Eudorella emarginata Kroeyer	Eudorella emarginata	9.972
CUMACEA	Leuconidae	Eudorella cf. truncatula Sp.Bate	Eudorella truncatula	14.034
CUMACEA	Leuconidae	Eudorella truncatula Sp.Bate	Eudorella truncatula	14.034
CUMACEA	Leuconidae	Leucon nasica (Kroeyer)	Leucon nasica	9.796
CUMACEA	Diastylidae	Diastylis cf. cornuta Boeck	Diastylis cornuta	11.746
CUMACEA	Diastylidae	Diastylis cornuta Boeck	Diastylis cornuta	11.746
CUMACEA	Diastylidae	Diastylis cf. lucifera (Kroeyer)	Diastylis lucifera	5.292

CUMACEA	Diastylidae	Diastylis lucifera (Kroeyer)	Diastylis lucifera	5.292
CUMACEA	Diastylidae	Diastylis rathkei Kroeyer	Diastylis rathkei	6.922
CUMACEA	Diastylidae	Diastyloides cf. serrata (Sars, 1865)	Diastyloides serrata	12.324
CUMACEA	Diastylidae	Diastyloides cf. serrata (Sars, 1865)	Diastyloides serrata	12.324
CUMACEA	Diastylidae	Diastyloides serrata (Sars, 1865)	Diastyloides serrata	12.324
TANAIDACEA		Tanaidacea indet	Tanaidacea indet	11.74
TANAIDACEA	Parathanidae	Leptognathia breviremis (Lilljeborg)	Tanaidacea indet	11.74
TANAIDACEA	Parathanidae	Typhlotanais cf. tenuimanus (Lilljeborg)	Tanaidacea indet	11.74
TANAIDACEA	Parathanidae	Typhlotanais sp	Tanaidacea indet	11.74
TANAIDACEA	Parathanidae	Typhlotanais tenuimanus (Lilljeborg)	Tanaidacea indet	11.74
AMPHIPODA	Lysianassidae	Tryphosites longipes (Bate & Westwood, 1861)	Tryphosites longipes	14.198
AMPHIPODA	Ampeliscidae	Ampelisca aequicornis Bruzelius	Ampelisca aequicornis	19.604
AMPHIPODA	Ampeliscidae	Ampelisca cf. aequicornis Bruzelius	Ampelisca aequicornis	19.604
AMPHIPODA	Ampeliscidae	Ampelisca cf. gibba Sars	Ampelisca gibba	20.636
AMPHIPODA	Ampeliscidae	Ampelisca gibba Sars	Ampelisca gibba	20.636
AMPHIPODA	Ampeliscidae	Ampelisca cf. tenuicornis Lilljeborg	Ampelisca tenuicornis	13.282
AMPHIPODA	Ampeliscidae	Ampelisca tenuicornis Lilljeborg	Ampelisca tenuicornis	13.282
AMPHIPODA	Melitidae	Cheirocratus cf. sundewalli (Rathke)	Cheirocratus sp	11.554
AMPHIPODA	Melitidae	Cheirocratus intermedius Sars, 1894	Cheirocratus sp	11.554
AMPHIPODA	Melitidae	Cheirocratus robustus G.O.Sars	Cheirocratus sp	11.554
AMPHIPODA	Melitidae	Cheirocratus sp	Cheirocratus sp	11.554
AMPHIPODA	Melitidae	Cheirocratus sundewalli (Rathke)	Cheirocratus sp	11.554
AMPHIPODA	Melitidae	Eriopisa elongata Bruzelius	Eriopisa elongata	12.34
AMPHIPODA	Oedicerotidae	Arrhis phyllonx (M.Sars)	Arrhis phyllonx	10.484
AMPHIPODA	Oedicerotidae	Monoculodes borealis Boeck	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Monoculodes carinatus Bate	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Monoculodes cf. carinatus Bate	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Monoculodes cf. norvegicus Boeck	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Monoculodes cf. packardi Boeck	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Monoculodes norvegicus Boeck	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Monoculodes packardi Boeck	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Monoculodes sp	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Monoculodes tenuirostratus Boeck	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Monoculodes tuberculatus Boeck	Monoculodes sp	14.936
AMPHIPODA	Oedicerotidae	Westwoodilla caecula (Sp.Bate)	Westwoodilla caecula	12.048
AMPHIPODA	Phoxocephalidae	Harpinia antennaria Meinert	Harpinia sp	12.574
AMPHIPODA	Phoxocephalidae	Harpinia cf. pectinata G.O.Sars	Harpinia sp	12.574
AMPHIPODA	Phoxocephalidae	Harpinia crenulata (Boeck)	Harpinia sp	12.574
AMPHIPODA	Phoxocephalidae	Harpinia pectinata G.O.Sars	Harpinia sp	12.574
AMPHIPODA	Phoxocephalidae	Harpinia sp	Harpinia sp	12.574
AMPHIPODA	Liljeborgiidae	Lilljeborgia macronyx G.O.Sars	Lilljeborgia macronyx	16.384
AMPHIPODA	Pardaliscidae	Nicippe tumida Bruzelius	Nicippe tumida	18.152
AMPHIPODA	Pardaliscidae	Pardalisca cf. tenuipes G.O.Sars	Pardalisca tenuipes	16.126
AMPHIPODA	Pardaliscidae	Pardalisca tenuipes G.O.Sars	Pardalisca tenuipes	16.126
AMPHIPODA	Corophiidae	Corophium affine Bruzelius	Corophium sp	7.722
AMPHIPODA	Corophiidae	Corophium bonelli	Corophium sp	7.722
AMPHIPODA	Corophiidae	Corophium cf. volutator (Pallas)	Corophium sp	7.722
AMPHIPODA	Corophiidae	Corophium crassicorne Bruzelius	Corophium sp	7.722
AMPHIPODA	Corophiidae	Corophium insidiosum Crawford	Corophium sp	7.722
AMPHIPODA	Corophiidae	Corophium sp	Corophium sp	7.722
AMPHIPODA	Corophiidae	Corophium volutator (Pallas)	Corophium sp	7.722

AMPHIPODA	Corophiidae	Neohela monstrosa (Boeck)	Neohela monstrosa	17.384
DECAPODA	Axiidae	Calocaris macandreae Bell, 1846	Calocaris macandreae	11.93
SIPUNCULIDA		Golfingia cf. minuta (Keferstein)	Golfingia sp	12.364
SIPUNCULIDA		Golfingia cf. vulgaris (de Blainville)	Golfingia sp	12.364
SIPUNCULIDA		Golfingia minuta (Keferstein)	Golfingia sp	12.364
SIPUNCULIDA		Golfingia procera (Moebius)	Golfingia sp	12.364
SIPUNCULIDA		Golfingia sp	Golfingia sp	12.364
SIPUNCULIDA		Phascolosoma minutum Keferstein, 1862	Golfingia sp	12.364
SIPUNCULIDA		Phascolosoma sp	Golfingia sp	12.364
SIPUNCULIDA		Onchnesoma steenstrupi Koren & Danielssen, 1876	Onchnesoma steenstrupi	13.004
SIPUNCULIDA		Phascolion strombi (Montagu, 1804)	Phascolion strombi	11.99
PRIAPULIDA		Priapulus caudatus Lamarck, 1816	Priapulus caudatus	6.164
ASTEROIDEA	Goniopectinidae	Ctenodiscus crispatus (Bruz.)	Ctenodiscus crispatus	12.08
OPHIUROIDEA	Amphiuridae	Amphiura chiajei Forbes	Amphiura chiajei	8.6
OPHIUROIDEA	Amphiuridae	Amphiura filiformis (O.F.Mueller)	Amphiura filiformis	7.462
OPHIUROIDEA	Amphilepididae	Amphilepis norvegica Ljungman	Amphilepis norvegica	11.534
OPHIUROIDEA	Ophiuridae	Ophiura affinis Luetken	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura albida Forbes	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura carnea	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura cf. affinis Luetken	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura cf. albida Forbes	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura cf. robusta Ayres	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura cf. sarsi Luetken	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura robusta Ayres	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura sarsi Luetken	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura sp	Ophiura sp	5.412
OPHIUROIDEA	Ophiuridae	Ophiura texturata Lamarck	Ophiura sp	5.412
ECHINOIDEA	Fibulariidae	Echinocyamus pusillus (O.F.Mueller)	Echinocyamus pusillus	16.14
ECHINOIDEA	Brissidae	Brissopsis lyrifera (Forbes)	Brissopsis lyrifera	13.038
ECHINOIDEA	Loveniidae	Echinocardium cf. cordatum (Pennant)	Echinocardium cordatum	9.342
ECHINOIDEA	Loveniidae	Echinocardium cordatum (Pennant)	Echinocardium cordatum	9.342
ECHINOIDEA	Loveniidae	Echinocardium cf. flavescens (O.F.Mueller)	Echinocardium flavescens	13.826
ECHINOIDEA	Loveniidae	Echinocardium flavescens (O.F.Mueller)	Echinocardium flavescens	13.826
HOLOTHUROIDEA	Synaptidae	Labidoplax buski (McIntosh)	Labidoplax buski	7.85