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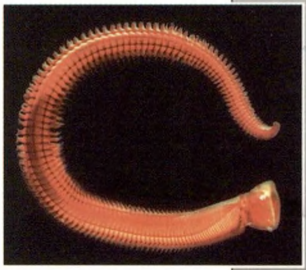

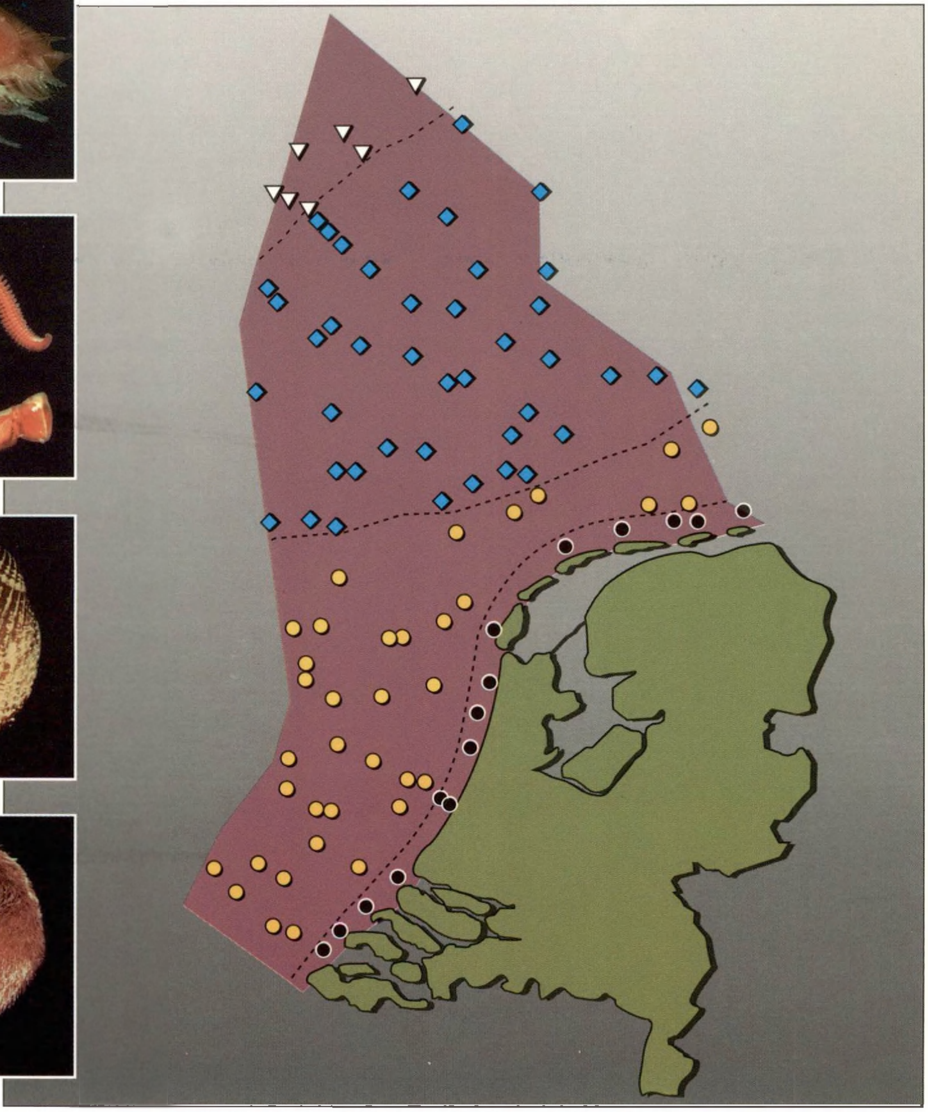

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# THE MACROBENTHIC FAUNA IN THE DUTCH SECTOR OF THE NORTH SEA IN 1995 AND A COMPARISON WITH PREVIOUS DATA

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This report presents data of the monitoring program of macrozoobenthos in the Dutch Continental Shelf (DCS) of the North Sea, a cooperation between the National Institute for Coastal and Marine Management/RIKZ (Rijkswaterstaat), the North Sea Directorate (Rijkswaterstaat) and the Department of Marine Ecology (NIOZ)

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## 1. Summary

In this report the results are presented of a macrobenthos survey on the Dutch Continental Shelf (DCS), carried out in spring 1995. The survey was the fifth since 1991 and forms part of the programme 'Monitoring Macrobenthos of the North Sea' (BIOMON), which is initiated by the National Institute for Coastal and Marine Management (RIKZ, Rijkswaterstaat) and is carried out by the department Marine Ecology of the NIOZ in co-operation with the North Sea Directorate of Rijkswaterstaat. The aim of the programme is to obtain insight into the year-to-year variations of the macrobenthic community and to detect trend-like changes, that possibly indicate anthropogenic influences on the marine environment (*e.g.* eutrophication, beam-trawl fishery, pollution).

The sampling strategy followed in 1995 was substantially different from that in previous years, when 25 fixed stations were sampled along 5 transects each year and at each of these stations 5 replicate boxcore samples were taken. During the 1995 survey, 100 stations were sampled. These stations included the 25 'old' BIOMON stations. The 75 'new' stations were selected more or less at random within 4 subareas of the DCS, *i.e.* the southern part of the Dogger Bank, the Oyster Ground, the remaining offshore area and the coastal area. The number of stations within each subarea was proportional to the extent of the subarea. Per station only one boxcore sample was collected for analyse the macrobenthos. The new strategy was aimed to obtain a better coverage of the whole area and to improve the detection of trendwise changes in the macrobenthic community in these subareas. The new approach implies that the monitoring programme in fact has made a second start, because for the 75 'new' stations there is no time series available with monitoring data from previous years. Nevertheless, some indications for possible trends as identified at the 25 'old' stations could also be found at the 'new' stations, since nearly all have previously been sampled during other North Sea macrobenthos programmes.

The results of the period 1991-1995 show some trendlike changes in sediment characteristics. In all subareas an overall slight increase was observed in the median grain size in 1995 compared to previous years. This increase could only partly be explained by a decrease of the mud fraction (the fraction 16-63 μm; the smallest fraction <16 μm was not considered). Mud contents of sediments showed an overall downward trend on the Dogger Bank, the offshore area and the coastal area. However, in the Oyster Ground such an overall downward trend was not observed. Particularly in the southern offshore area there were several stations that showed a parallel trend in mud contents over the period of 1991-1995. This indicates that year-to-year changes did not occur locally, but can be considered as structural trends that extend over a wide area. However, such trends are not characterized by a monotonous increase or decrease. The observation that mud contents were low in 1995 has no predictive value with respect to mud contents in the following year.

Based on a cluster analysis, by means of TWINSPAN ordination, of the macrofauna communities found at the stations sampled in 1995, five cluster areas were

distinguished. In the Oyster Ground there were 2 clusters, which correspond to the clusters formerly named Oyster Ground 1 and 2. In the offshore area there are 2 clusters: one cluster consists of stations mainly concentrated in the southern area (southern offshore cluster) and one of stations in the northern area, which have affinity with the southern Dogger Bank stations (northern offshore- southern Dogger Bank cluster). Finally there is a cluster of coastal stations (coastal cluster). For each cluster a number of characteristic species has been identified.

Changes in macrofauna characteristics at the community level (diversity, density or biomass) generally did not show a temporal trend. However, there seemed to be a slight increase in species richness in recent years compared to the period before 1992.

At the species level some trends could be identified that were generally restricted to one or two cluster areas. For one species, the polychaete *Lanice conchilega*, an overall upward trend in densities can be observed over the monitoring period in nearly all subareas. This trend was already observed in 1994. Although in 1995 this species seemed to be slightly less abundant than in 1994, densities were still high compared to the period before 1994. For other species the following trends in density were found per cluster area:

* Northern offshore-southern Dogger Bank cluster: weakly downward trend in the sea-urchin *Echinocardium cordatum*.
* Oyster Ground clusters: downward trends in the echinoderm *Amphiura filiformis* and the bivalve *Mysella bidentata*.
* Southern offshore cluster: clear and continuous downward trend in *Echinocardium cordatum*.
* Coastal cluster: upward trend for the polychaete *Magelona papillicornis*; downward trends in *Echinocardium cordatum* and the gastropod *Natica alderi*.

It seems remarkable that overall downward trends are observed particularly in echinoderms. For example *Amphiura filiformis* was generally a dominant species in the Oyster Ground area, including the Frisian Front, up to 1992, where densities of over 1500 specimens per $m^2$ were frequently found. In 1995, the densities were usually a few hundred specimens per $m^2$, but there were also several stations where the species was not found at all. No relationship was found between the decrease of *A. filiformis* and changes in the mud content (particles 16-63 μm) in the same period.

With respect to continuation of monitoring of North Sea macrobenthos with the aim to identify possible trend-like changes, the standardised programme for sampling and analyses (benthic fauna and sediment) as used in this study (1991-1995), is recommended.

## 2. Samenvatting

In dit rapport worden de resultaten gepresenteerd van een macrobenthos bemonstering die in het voorjaar van 1995 werd uitgevoerd in de Nederlandse sector van de Noordzee. Deze survey was de vijfde sedert 1991 en maakt deel uit van het programma 'Monitoring van het Noordzee macrobenthos' (BIOMON). Dit programma is een initiatief van het Rijksinstituut voor Kust en Zee (RIKZ, Rijkswaterstaat) en wordt uitgevoerd door de afdeling Marine Ecologie van het NIOZ in samenwerking met de Direktie Noordzee van Rijkswaterstaat. Met het programma wordt beoogd inzicht te krijgen in jaarlijkse fluctuaties in de samenstelling van de macrofauna gemeenschap en vast te stellen of er op de langere termijn trendmatige veranderingen optreden. Dergelijke veranderingen zouden onder meer kunnen optreden als gevolg van effekten van anthropogene aktiviteiten (bijv. eutrofiëring, boomkorvisserij, verontreiniging).

Het monsterprogramma zoals uitgevoerd in 1995 week aanzienlijk af van de aanpak waar in voorgaande jaren voor was gekozen. Tot en met 1994 werden jaarlijks 25 vaste stations bemonsterd die gelegen waren langs 5 raaien en op elk van deze stations werden steeds 5 boxcoremonsters genomen en geanalyseerd. Tijdens het programma van 1995 werden 100 stations bemonsterd, waaronder de 25 'oude' BIOMON stations. De 75 'nieuwe' stations werden min of meer at random gekozen binnen 4 subgebieden in de Nederlandse sector, te weten het zuidelijke deel van de Doggersbank, de Oestergronden, het overige offshore gebied en de kustzone. Per subgebied werd het aantal stations zodanig gekozen dat dit in verhouding stond tot de omvang van het subgebied. Per station werd slechts één boxcoremonster genomen voor het macrobenthos onderzoek. De reden voor de nieuwe aanpak kwam voort uit de overweging een bemonstering uit te voeren die meer representatief zou zijn voor het totale gebied en betere gegevens te verkrijgen op basis waarvan eventuele trendmatige veranderingen in deze subgebieden kunnen worden gedetecteerd. Als gevolg van de gewijzigde aanpak heeft het monitoring programma in feite een nieuwe start gemaakt. Immers voor de 75 'nieuwe' stations bestaat geen tijdserie van waarnemingen over meerdere achtereenvolgende jaren. Niettemin zijn bijna alle 'nieuwe' stations in het kader van andere onderzoeksprogramma's ooit al wel eens eerder bemonsterd. Dit betekent dat het in principe mogelijk is om te verifiëren of bepaalde indikaties voor trendmatige veranderingen, zoals die verkregen zijn op de 25 'oude' stations, ook op de 'nieuwe' stations gevonden worden.

De resultaten van het in de periode 1991-1995 uitgevoerde onderzoek wijzen op bepaalde trendmatige veranderingen in sedimentkarakteristieken. In alle subgebieden werd in 1995 een lichte toename geconstateerd in de mediane korrelgrootte ten opzichte van voorgaande jaren. Deze toename kon voor een deel verklaard worden uit een afname van de slibfraktie (de fraktie 16-63 μm, de fraktie <16 μm werd niet in de berekeningen meegenomen). Het slibgehalte van het sediment vertoonde een algehele neerwaartse trend op de Doggersbank, in het offshore-gebied en in de kustzone. In de Oestergronden werd zo'n algehele neerwaartse trend niet gevonden. Met name in het zuidelijke offshore-gebied was er een groot aantal stations dat een zelfde trend vertoonde over de periode 1991-1995.

Dit wijst erop dat veranderingen zoals die zich op de afzonderlijke stations voordoen geen lokaal verschijnsel zijn, maar strukturele trendmatige veranderingen reflekteren die zich over een groot gebied voordoen. Deze veranderingen worden echter niet gekenmerkt door een monotone toe- of afname, m.a.w. het gegeven dat slibgehalten laag waren in 1995 vormt geen enkele basis om het slibgehalte in het daarop volgende jaar te voorspellen.

Op basis van een clusteranalyse (TWINSPAN ordinatie) van de macrofauna-gemeenschappen die in 1995 op de verschillende stations werden aangetroffen, werden 5 clustergebieden onderscheiden. In de Oestergronden werden 2 clusters onderscheiden welke overeenkomen met de vroeger al onderkende clusters Oestergronden 1 en 2. Het offshore-gebied kan opgedeeld worden in 2 clusters: één cluster bestaat uit stations die voornamelijk in het zuidelijke offshore-gebied zijn gelegen (zuidelijke offshore cluster), de andere uit stations die vooral in het noordelijke offshore-gebied en op de zuidelijke Doggersbank gelegen zijn (noordelijke offshore-zuidelijke Doggersbank cluster). Tenslotte is er een cluster van nabij de kust gelegen stations (kustzone cluster). Voor elke cluster is een aantal kenmerkende soorten geïdentificeerd.

Veranderingen in macrofauna karakteristieken op het niveau van de levensgemeenschap (diversiteit, fauna-dichtheid of biomassa) lieten in het algemeen geen consekwente trend zien. Er lijkt echter de laatste jaren een lichte toename te zijn in soortenrijkdom (aantal soorten per monster) ten opzichte van de periode vóór 1992.

Op soortniveau waren bepaalde trends zichtbaar die zich meestal openbaarden in één of enkele clustergebieden. Bij één soort, de polychaet *Lanice cochilega*, was er een algemene trend van toenemende dichtheden gedurende de periode van monitoring in all subgebieden. Deze trend is al in 1994 gesignaleerd. Hoewel deze soort in 1995 iets minder talrijk was dan in 1994, konden dichtheden nog steeds hoog genoemd worden in vergelijking tot de periode vóór 1994. Ook voor enkele andere soorten werden trends gevonden die per clustergebied als volgt kunnen worden samengevat:

* Noordelijke offshore-zuidelijke Doggersbank cluster: lichte neerwaartse trend bij de hartegel of zeeklit *Echinocardium cordatum*.
* Oestergronden clusters: neerwaartse trends bij het slangsterretje *Amphiura filiformis* en de tweekleppige schelp *Mysella bidentata*.
* Zuidelijke offshore cluster: duidelijk continu dalende trend bij *Echinocardium cordatum*.
* Kustzone cluster: trend voor toenemende aantallen van de polychaet *Magelona papillicornis*; dalende trends bij *Echinocardium cordatum* en het roofslakje *Natica alderi* ("glanzige tepelhoorn").

Het lijkt opmerkelijk dat een algeheel dalende trend speciaal bij stekelhuidigen is waargenomen. *Amphiura filiformis*, bijvoorbeeld, was tot en met 1992 in het algemeen een dominante soort in de Oestergronden en op het Friese Front, waar deze soort regelmatig in dichtheden van meer dan 1500 exemplaren per $m^2$ werd aangetroffen. De in 1995 gevonden dichtheden lagen meestal in de orde van enkele honderden per $m^2$, maar op diverse stations werd de soort ook in het geheel niet aangetroffen. Er is geen direkt verband gevonden tussen de afname van *A. filiformis* en veranderingen in het slibgehalte (16-63 µm) in de zelfde periode.

Met betrekking tot voortzetting van monitoring van het Noordzee macrobenthos, teneinde eventuele trendmatige veranderingen te identificeren, wordt aanbevolen ook in de toekomst het gestandaardiseerd programma van monsteren en analyses (fauna en sediment), zoals gehanteerd in de voorliggende studie (1991-1995), aan te houden.

## 3. INTRODUCTION

This report presents the results of the fifth BIOMON macrobenthic survey on the Dutch Continental Shelf (DCS), in spring 1995. The survey is part of a long term macrobenthos monitoring programme which is an initiative of the National Institute for Coastal and Marine Management/RIKZ (Rijkswaterstaat) in co-operation with the North Sea Directorate of Rijkswaterstaat and the department of Marine Ecology of the NIOZ. The aim of the project is to study year-to-year variations and to detect possible changes in the macrobenthic community of the Dutch Sector of the North Sea. The results of the first four studies are published by Duineveld (1992), Duineveld & Belgers (1993, 1994) and Holtmann et al (1995).

The survey of spring 1995 is the first for which a totally new sampling strategy for the monitoring programme of macrozoobenthos is operative. The new method implies a dramatic break with the strategy used hitherto. In the previous studies (1991-1994) each year 5 replicate boxcore samples were collected from 25 locations on the DCS. These 25 stations were located on 4 transects perpendicular and 1 transect parallel to the Dutch coast. According to the new strategy a total of 100 stations were sampled, but per location only one sample was taken. The 100 stations include the 25 'old' BIOMON stations and 75 'new' stations, which are more or less at random distributed over the DCS (Essink, 1995). However, it was anticipated that a comparison of new data with results of former benthic surveys, particularly those carried out in the framework of the ICES North Sea Benthos Survey (ICES-NSBS, 1986) and the MILZON-BENTHOS programme (1988-1993), would be optimal if the coordinates of the 'new' stations correspond with the positions of stations sampled during those former surveys. Considering this, the selection procedure was as follows. With the existing knowledge about the distribution of the macrobenthic fauna of the North Sea (Holtmann et al., 1996) the whole area of the DCS was divided into 4 subareas, known as the southern part of the Dogger Bank (DOG), the Oyster Ground (OYS), the coastal (COA) and the more offshore (OFF) area. Depending on the extent of each subarea and its specific stratification a proportional number of positions were randomly generated per subarea. The coordinates of these positions were compared with those of stations that earlier had been sampled and then the station that was geographically the nearest was chosen as the 'new' BIOMON station. In this way 70 stations were selected that have been sampled in preceding years during either the ICES-NSBS survey or the MILZON programme. Finally, in the offshore area 5 real new stations were selected (with random positions), because this subarea had a low coverage in the surveys of 1986-1993.

The reason for changing the sampling strategy of the macrobenthic monitoring is that with the new method a more accurate insight in the benthic community of the DCS can be acquired. Furthermore, it is the aim of the monitoring to detect possible changes in the macrobenthic community of the whole DCS rather than on separate stations. Therefore, this new strategy will improve the power of any statements about possible large scale changes of the macrobenthos on the DCS (v.d. Meer, in prep.).

## 4. Material and methods

Sampling and sorting of the samples was done according to the prescribed standard methods for macrobenthos sampling in the Dutch Sector of the North Sea (Essink, 1991).

### 4.1. Sampling and sorting

The station grid of the sampling cruise in spring 1995 is given in Fig. 1. The geographical positions of the 100 stations, together with the former station codes and some measured abiotic parameters are summarized in Table 1 (a/b).

In the period 22 May to 28 June 1995 the main part of the stations was sampled with the RV. Holland and the RV. Smal Agt. Two coastal stations with a water depth below 10 m, *viz.* COA 13 & 14 were sampled on 31 May 1995 with the RV. Argus. More general information about the cruises and the weather conditions can be found in the cruise report of Rijkswaterstaat (Anonymous, 1995).

At each station 2 boxcore samples (0.068 $m^2$, minimal depth 15 cm) were taken while the ship was anchored. One boxcore was used for sediment analysis and the second boxcore was washed through a sieve (1 mm) to collect the macrobenthic fauna. The sediment samples were immediately frozen at -20 °C. The residue of the macrobenthos was preserved in a borax-buffered solution of 4-6 % formaldehyde.

In the laboratory the macrobenthic samples were stained with rose-bengal and fractionated over a set of sieves with 0.7 mm as the smallest mesh size to facilitate sorting. The macrozoobenthos was identified to species level, except for some notoriously difficult taxa such as anthozoans, hydrozoans, phoronids, priapulids and nemerteans, and counted. Sizes (nearest 0.5 mm) were recorded for most species of the molluscs and echinoderms to calculate the ashfree dry weight (g AFDW/ $m^2$) by means of length-weight relationships.

### 4.2. Ashfree Dry weight

The ashfree dry weight (AFDW) of the different taxa was determined in one of the following ways:

* Molluscs, echinoids: by means of length-AFDW relationships of the form $W=a*L^b$ (W=AFDW and L=length in mm)
* Polychaetes, worms, larger crustaceans, ophiuroids: indirectly, by converting the (blotted) wet weight into AFDW by means of conversion factors provided by Rumohr et al. (1987). Wet weights were measured with a Mettler PJ300 balance to the nearest mg.
* Remaining taxa: directly, by drying a sample at 60 °C for 60 hours and subsequently incinerating at 520 °C for two hours (Duineveld & Witte, 1987).

Small molluscs, amphipods and cumaceans were assigned an average individual AFDW of 0.2-0.5 mg. The same figure is used by Holtmann & Groenewold (1992; 1994) in their analysis of macrobenthos from the MILZON-BENTHOS project in the southern North Sea in 1991-1993. This estimated individual weight is based on previous determinations of the AFDW of the taxa in question (Duineveld; Holtmann, unpubl.).

## 4.3. Classification and diversity

Stations were classified in clusters by means of TWINSPAN ordination (Hill, 1979) based on macrofauna species abundances (cut levels: 0, 15, 30, 75, 150, 350, 1000 ind./$m^2$). Of each cluster a set of characteristic species can be discribed because of their dominance in the respective community.

Beside the species density (ind./$m^2$) and biomass (g AFDW/$m^2$) the diversity of the macrozoobenthos was calculated.

The diversity is represented by three variables:

1. species richness (*i.e.* the number of species per sample),
2. Shannon-Wiener index (H'; with logarithm to the base e) (Shannon & Weaver, 1949) and
3. Simpson's index (SI) for dominance (Simpson, 1949).

The relationship between these diversity measures and Hill's diversity numbers ($N_0$, $N_1$, $N_2$; Hill, 1973), which have been used in the MILZON-BENTHOS reports on the spatial distribution of the benthic fauna in the Dutch Continental Shelf of the North Sea (Holtmann & Groenewold, 1992; 1994), is as follow: $N_0$= species density, $N_1$= exp (H') and $N_2$ =1/SI.

### 4.4. Sediment analysis

At each station shown in Fig. 1, two subsamples (3.4 cm diameter, depth 10 cm) were taken from an intact boxcore sample and subsequently pooled for laboratory analysis of the sediment composition (*e.g.* grain size, content of calcium carbonate). The results of the grain size analysis (Malvern) of these samples were provided by the Middelburg laboratory of the National Institute for Coastal and Marine Management/RIKZ.

Two parameters were derived from the grain size data: the percentage (by weight) of mud (particles 16-63 μm) and the median grain size (μm). The latter value was calculated using the entire size range (thus including the mud fraction). Sediment types were classified on the basis of the median grain size as follows:

Characterisation of the sedimenttype according to the median grain size (after Gullentops et al., 1977).

| | |
|---|---|
| < 175 μm | Very fine sand |
| 175 - 250 μm | Fine sand |
| 250 - 300 μm | Fine-medium sand |
| 300 - 350 μm | Medium-coarse sand |
| > 350 μm | Coarse sand |

# 5. Results

## 5.1. Sediment composition

The median grain sizes and mud content (16-63 µm; the smallest fraction <16 µm was not considered) of the sediment at all stations sampled in 1995 (except station OFF 14) are listed in Table 1(a/b). The spatial patterns in median grain size and mud content are illustrated in Fig. 2 and 3. A summary of the data is given in Table 2 where mean values of these parameters are given for 5 cluster areas (these clusters were identified by means of TWINSPAN ordination of the macrofauna community, see section 5.2.2). The area of the Oyster Ground is characterized by fine sand, usually mixed up with a significant mud fraction (mean 5.0 %, maximum 25.0 %). Fine to medium sand usually occurred in the coastal area, on the Dogger Bank and in the Northern offshore area. In the offshore area the median grain size gradually increased in southern direction to values beyond 350 µm off the coast of Zeeland. So far, the results roughly correspond with known patterns in sediment composition observed during the monitoring surveys in previous years and published sediment charts (Anonymous, 1992). However, a comparison of the sediment composition at stations that were sampled earlier during either the MILZON- or ICES-NSBS surveys (Holtmann et al., 1990; Holtmann & Groenewold, 1992, 1994; Künitzer et al., 1992) reveals differences in the median grain size between 1995 and previous years. At the stations in all 4 subareas there appeared to be an overall increase of the median grain size (Fig. 4). The average increase measured was most pronounced on the southern part of the Dogger Bank (9 %). In the other areas the median grain size was on average 6 to 7 % larger than in previous years. This may indicate that there was a slight decrease of fine material in the sediment. More evidence for such a decrease is obtained from the 25 stations that were consistently sampled during the BIOMON programme from 1991 onwards. Fig. 5 shows that at one station on the Dogger Bank (DOG 7) there was only a very slight increase of median grain size compared to the period 1991-1993. However, in the Oyster Ground, the highest value for median grain size was found at all stations in 1995. In the offshore area an overall increase in 1995 compared to previous years was found at 7 of 8 stations sampled and in the coastal area there was an overall increase of median grain size in 1995 at 8 of 9 stations sampled.

Changes were also found in the mud content (*i.e.* the particle size fraction between 16 and 63 µm) of the sediment at the 25 stations sampled between 1991 and 1995 (Fig. 6). At the Dogger Bank station (DOG 7) the mud content decreased from ~1 % in 1991 and 1992 to 0 % in 1995. In the Oyster Ground there were 3 stations (OYS 36, 37 & 39) showing a parallel trend over the monitoring period, *viz.* a continuous increase from 1991 to 1994 and a slight decrease in 1995. At the other stations parallel trends were not so clear, but the mud contents tended to be lower in 1995 than in the preceding years. Most obvious are the parallel trends at the stations in the offshore area where mud contents consistently culminated in 1992. At three of these stations a second peak was found in 1994. At the other stations the mud contents continuously decreased after 1992 to zero values in 1994 and 1995. In the coastal area mud contents were generally highest in 1992 too and thereafter decreased to zero values at most stations in 1995. Only station COA 10 showed a completely different temporal pattern.

## 5.2. Distribution of the macrobenthic fauna

### 5.2.1. Diversity, density and biomass

A total of 189 species were found in the 100 boxcore samples, including 13 juvenile species (identified to genus level only) and 13 higher taxa (not identified to species level). Scientific names and presence-absence data for all species are summarized in Appendix-1. All basic data are listed in Appendix 2.

The mean number of species per sample (Hill number $N_0$) was highest on the Dogger Bank and lowest in the coastal area and southern offshore area (Table 2, Fig. 7). A comparison of the numbers per sample with the numbers found at corresponding stations during ICES-NSBS, MILZON or BIOMON surveys in preceding years suggests an overall increase in the past 10 years (Fig. 8). On the Dogger Bank and in the Oyster Ground the numbers seem to have increased particularly between 1986 and 1991 and to have stabilized thereafter. In the offshore and coastal areas there is an overall increase compared to the period before 1994.

Mean values of the Shannon-Wiener diversity index were in 1995 highest on the southern part of the Dogger Bank and lowest in the coastal area (Table 2). A comparison of the diversity at the 25 ‘old’ BIOMON stations with values found in 1994 (Fig. 9) reveals that there are substantial differences between both years at a number of stations, but there is no consistent trend and mean values are at a similar level in both years.

Total fauna densities were generally highest in the coastal area (Fig. 10). Also on the Dogger Bank high faunal densities were found. A comparison of fauna densities in 1995 with densities found at corresponding stations during ICES-NSBS or MILZON surveys in preceding years (Fig. 11) shows that the densities were very high in 1995 on the Dogger Bank, in the offshore area and in the coastal area. In the Oyster Ground the densities were high compared to the values found during the ICES-NSBS survey in 1986, but at a similar level as found in the early 1990's. Changes in fauna abundance at the 25 ‘old’ BIOMON stations over the period 1991-1995 are illustrated in Fig. 12. At the single Dogger Bank station (DOG 7) fauna numbers increased. In the other areas there were highly variable trends at the different stations. The mean fauna abundance at the Oyster Ground stations hardly changed between 1991 and 1995. In the offshore and coastal areas there seemed to be a slight overall increase in 1994 and 1995 compared to the preceding years.

In 1995, mean biomass values were highest in the coastal area and lowest on the southern part of the Dogger Bank and in the offshore area (Table 2, Fig. 13). Although the biomass values at individual stations may differ considerably from values earlier measured during the ICES-NSBS and MILZON surveys (Fig. 14), there does not seem to be a consistent increase or decrease compared to preceding years. The changes in biomass values at the 25 'old' BIOMON stations (Fig. 15) also do not suggest a consistent trend between 1991 and 1995 in any of the 4 subareas investigated.

### 5.2.2. Patterns in fauna composition

A classification of the 100 stations investigated, based on their fauna composition (species specific abundances), was carried out by means of TWINSPAN ordination. The results of the analysis are presented in Fig. 16. Five clusters were distinguished, which is one more than were previously discerned for the 25 'old' BIOMON stations (Duineveld, 1992; Duineveld & Belgers, 1993, 1994; Holtmann et al. 1995). Table 2 presents an overview of the abiotic and biotic parameters of the five clusters. At the first division-level 40 stations of the Oyster Ground were split from the rest. The second division resulted in a sub-division of the Oyster Ground in 2 clusters and separated 24 southern offshore stations from the coastal area, the other offshore stations and the Dogger Bank. After the third division 16 stations of the coastal area were classified as a seperate cluster.

As a result, in the Oyster Ground there are 2 clusters which correspond to the clusters formerly named Oyster Ground 1 and Oyster Ground 2. In the offshore area there are two clusters: one cluster consists of stations mainly concentrated in the southern area (southern offshore cluster) and one of stations in the northern area, which have affinity with the Dogger Bank stations (northern offshore-southern Dogger Bank cluster). With the TWINSPAN classification of the data in 1991 only one offshore cluster was found (Duineveld, 1992). The 7 stations of the Dogger Bank were not located at the central part of the bank, so the affinity with the northern offshore stations can be explained by the same depth and sediment composition found in the area of the southern Dogger Bank (Kröncke, 1992). Compared to the northern offshore area the stations of the southern offshore cluster show coarse sand with a 'poor' macrobenthic fauna (low mean values of the density and biomass; Table 2). Finally there is a cluster of coastal stations (coastal cluster) with the highest macrobenthic abundance and biomass.

Indicator species of the Oyster Ground are the echinoderm *Amphiura filiformis* and the crustaceans *Callianassa subterranea* and *Harpinia antennaria*, which are all frequently found in both clusters. Characteristic for the Oyster Ground 1 cluster are the crustacean *Upogebia deltaura,* the polychaete *Glycera rouxii* and the sipunculan *Golfingia vulgaris*. In the Oyster Ground 2 cluster the crustacean *Eudorellopsis deformis*, the bivalves *Abra alba* and *Mysia undata* and the polychaete *Pholoe minuta* are frequently found. Indicator species for the southern offshore area are the crustacean *Urothoe brevicornis*, the bivalve *Tellina pygmaea* and the polychaetes *Nephtys cirrosa, Ophelia limacina* and *Hesionura augeneri*, whereas the echinoderm *Acrocnida brachiata*, the crustaceans *Bathyporeia elegans, B. guilliamsoniana, Iphinoe trispinosa, Hippomedon denticulatus* and *Urothoe poseidonis*, the bivalve *Tellina fabula* and the polychaete *Aricidea minuta* are characteristic for the northern offshore area and southern Dogger

Bank. Species that are frequently found particularly in the coastal area are the crustacean *Urothoe poseidonis*, the bivalves *Ensis directus, Macoma balthica, Spisula subtruncata* and *Tellina fabula* and the polychaete *Capitella capitata*.

### 5.2.3. Temporal variation in the abundance of individual species

The selection of species for which temporal variation in the abundance is described in this section is composed of the selection previously made by Holtmann et al. (1995) and some other species that have either a wide distribution or are characteristic of one of the 5 fauna clusters. The temporal variation in the abundance of 8 widely distributed species at the 25 'old' BIOMON stations is illustrated in Fig. 17 (a-h). An inspection of these figures for possible temporal trends gives the following results:

-*Lanice conchilega* (Polychaeta; Fig. 17a): densities of this species were high particularly in the northern offshore-southern Dogger Bank cluster; in the southern offshore and coastal clusters, where high densities can also be frequently found there was generally a decrease compared to 1994, when densities of this species culminated and particularly high numbers of juveniles were found (Holtmann et al., 1995).

-*Magelona papillicornis* (Polychaeta; Fig. 17b): strong year-to-year variations are found in the abundance of this species; no consistent parallel trends can be recognized in the offshore and Oyster Ground clusters; in the coastal cluster there has been a strong upward trend since 1993.

-*Nephtys hombergii* (Polychaeta; Fig. 17c): there are strong year-to-year variations and no consistent parallel trends can be recognized between stations within the individual clusters.

-*Pectinaria koreni* (Polychaeta; Fig. 17d): seems to have culminated at most stations in the coastal area in 1994, but further did not show a temporal trend.

-*Spiophanes bombyx* (Polychaeta; Fig. 17e): occurred in relatively high abundance in the offshore clusters in 1995 compared to preceding years; in contrast, densities of this species seem to have decreased in the Oyster Ground clusters, where the species was found at only one of the 4 stations in the Oyster Ground 2 cluster in 1995.

-*Mysella bidentata* (Bivalvia; Fig. 17f): changes in the abundance of this species generally do not show consistent trends; however, in the Oyster Ground cluster a downward trend can be noticed; it seems remarkable that the species has almost completely disappeared at the OYS 36 station in the Oyster Ground 1 cluster; this is the former META-2 station in the Frisian Front, where it occurred in high densities in the early nineties.

-*Natica alderi* (Gastropoda; Fig. 17g): shows no clear abundance trends in the offshore and Oyster Ground clusters, but in the coastal cluster densities seem to have decreased drastically since 1991; the species was not found at any of the 7 stations that have been sampled during the BIOMON programme in preceding years and at only one of the 9 other stations in this cluster one specimen of this species was found in 1995.

-*Echinocardium cordatum* (Echinodermata; Fig. 17h): a tendency for gradually decreasing abundance of this species between 1991 and 1995 can be recognized in most clusters; the decrease is most pronounced in the coastal cluster and the southern offshore cluster; in the Oyster Ground 2 cluster there is no consistent decrease.

An inspection of possible temporal trends in the abundance pattern of TWINSPAN indicator species was based on the 25 BIOMON stations that have been sampled since 1991. Trends were inspected for each species in its characteristic cluster (Fig. 18 a-e) and this resulted in the following:

<u>Northern offshore-southern Dogger Bank cluster</u> (Fig. 18a)
*Bathyporeia elegans* (Crustacea): no consistent temporal trend can be observed between 1991 and 1995.
*Tellina fabula* (Bivalvia): there is a weak upward trend in the abundance of this species in 3 of the 5 stations, but no consistent parallel trend at all 5 stations in this cluster.

<u>Oyster Ground 1 cluster</u> (Fig. 18b)
*Amphiura filiformis* (Echinodermata): at the only standard station in this cluster (OYS 36 = former META 2) a strong decrease was observed from 1700 ind./m² in 1992 to 100 ind./m² in 1995.
*Callianassa subterranea* (Crustacea): Densities of this species have also decreased, from 225 ind./m² in 1992 to 75 ind./m² in 1995.

<u>Oyster Ground 2 cluster</u> (Fig. 18c)
*Abra alba* (Bivalvia): abundance of this species has strongly increased at 3 of the 4 stations in this cluster.
*Amphiura filiformis* (Echinodermata): there seems to be a slight decrease in population densities in this cluster over the monitoring period.
*Callianassa subterranea* (Crustacea): except for an obvious increase in the abundance of this species at station OYS 37 between 1992 and 1993 there are no strong changes in the abundance of this species.
*Pholoe minuta* (Polychaeta): there are no corresponding temporal trends at the 4 stations in this cluster.

Southern offshore cluster (Fig. 18d)
*Nephtys cirrosa* (Polychaeta): there are highly variable temporal patterns in the abundance of this species at the different stations; although the mean abundance was somewhat lower in 1994 and 1995 than in the period 1991-1993, the development of the abundance at the individual stations does not indicate an overall decrease.

Coastal cluster (Fig. 18e)
*Tellina fabula* (Bivalvia): there are no corresponding temporal trends among the 7 stations in this cluster.
*Spisula subtruncata* (Bivalvia): at most stations there is a decreasing trend over the monitoring period.

### 5.2.4. Relationship between species abundances and mud contents in the Oyster Ground

The mud fraction in sediments in the Oyster Ground is generally large by nature. Particularly in this area a change in the mud content might have consequences for the abundances of species that are typical inhabitants of muddy sediments and therefore are characteristic species of this area. One of such species is *Amphiura filiformis*. Surprisingly, there does not seem to be any relation between the abundance of *A. filiformis* at the 7 'old' BIOMON stations in this area, as measured during the successive surveys carried out between 1991 and 1995, and the mud content (fraction 16-63 µm) at these stations (Fig. 19a). It is obvious therefore that the overall downward trend of *A. filiformis* in the Oyster Ground between 1991 and 1995 can not be explained by the changes in the mud content that occurred in this period, as is illustrated by Fig. 20a.

Another species characteristic of the Oyster Ground is the decapode *Callianassa subterranea*. For this species there is a clear relation between abundance and mud content (Fig. 19b). On average the species occurs in higher abundance at locations where a relatively large mud fraction is found. On the other hand, the changes in the abundance of *C. subterranea* at the 7 'old' BIOMON stations between 1991 and 1995 can not be explained by the simultaneous changes in the mud content at these stations (Fig. 20b).

## 6. DISCUSSION

In this study the macrobenthic fauna distribution in the Dutch sector of the North Sea was studied by sampling 100 stations that were chosen at random within 4 subareas. At each station only one boxcore sample was collected and analysed. This sampling approach implies an important change compared to the sampling strategy used in the BIOMON programme in preceding years, when only 25 stations were sampled, but per station 5 samples were collected. The decision to change the sampling strategy was based on the aim of the monitoring programme, *i.e.* to monitor changes in the benthic community in the whole area and to detect possible temporal trends in subareas with specific biotic and abiotic characteristics. Although intensive sampling of a few stations can give us information not only on mean species specific densities, but also on the local variance, this is not the most effective way to gather information on faunal densities in a larger area. It seems more appropriate to spread out sampling over such a larger area, which implies that single samples are taken at a larger number of stations. The temporal trends in species specific densities and community attributes as found at the 25 individual BIOMON stations support this approach, because for most species and community attributes no consistent parallel trends could be recognized at stations within one cluster area. This means that a clear trend at one or a few stations is often not representative of overall trends in a subarea.

The new approach implies that the monitoring programme in fact has made a second start, since for the 75 'new' stations there is no time series available with data from previous years. However, since most of these stations have once been sampled during either the ICES-NSBS or the MILZON surveys (Künitzer et al., 1992; Holtmann et al., 1990; Holtmann & Groenewold, 1992, 1994), some indications for possible temporal trends as identified at the 25 'old' BIOMON stations can also be obtained from these stations.

The interpretation of the data on sediment characteristics should take into account that these data concern the range of particles larger than 16 µm and not include the smallest mud particles. "Mud contents" were determined as the fraction 16-63 µm, which in fact may contain the larger mud particles and the smaller sand particles. Further, the median grain size was determined over the whole size range >16 µm and therefore values for the median grain size and mud content are interrelated. For example, the overall relatively large median grain size in 1995 may be (partly) explained by the overall low mud contents. However, the year-to-year changes in these sediment parameters at the individual stations do not show a clear relationship. *E.g.* the parallel trends in the mud contents at the stations in the offshore area were not accompanied by corresponding inverse patterns in median grain size.

Some clear temporal trends could be identified in the sediment characteristics of the different areas, particularly in the mud contents of the sediment. An overall downward trend in the mud content of sediments between 1992 and 1995 was observed in the offshore area. Also on the southern part of the Dogger Bank and in the coastal area such a downward trend can be observed and at most stations the fraction 16-63 μm had decreased to 0 %. In the Oyster Ground a downward trend was observed at 4 of the 'old' BIOMON stations, but at 3 other stations there was an overall upward trend since 1991. The parallel trends in the mud content of the stations in the offshore area strongly indicate that year-to-year differences in the mud content can not be explained merely by local spatial variance. Apparently, there are structural temporal trends that extend over a wide area. However, these temporal trends are not characterized by a continuous increase or decrease over the monitoring period. This indicates that the overall low mud contents and large median grain size in 1995 do not reflect an overall trend of gradually decreasing small particle fractions in the sediment over a longer term, or, in other words, have no predictive value with respect to the situation in the next year. Further, it is not clear to what extent year-to-year changes in the mud content have consequences for the macrofauna composition. Although the changes in mud content were relatively the largest in the sandy areas, it seems not likely that there is a substantial effect on the macrofauna composition here, since the mud fraction in these areas is always low by nature. In the Oyster Ground, where mud usually forms a substantial fraction in the sediment, a change in the mud fraction is much more likely to result in an effect on the macrofauna. However, for two species that are characteristic for the Oyster Ground sediments (*Amphiura filiformis* and *Callianassa subterranea*) there seemed to be no relationship between temporal changes in their abundance and simultaneous changes in the mud content.

Changes at the community level did not show a clear temporal trend: Average biomass values do not seem to have changed during the past ten years; Total fauna densities may seem to be relatively high in 1994 and 1995 compared to preceding years, but it should be noticed that these densities are usually strongly determined by the abundance of one or two dominant species and do not reflect the overall densities of individual species; finally, Shannon-Wiener diversity appeared to be highly variable between years but did not show an overall temporal trend in any of the subareas. However, the data suggest that there has been a slight increase in species richness (*i.e.* number of species per sample) in the last 4 years compared to the period before 1992, particularly on the Dogger Bank and in the offshore area.

At the species level some trends could be identified that were generally restricted to one or two cluster areas. Per cluster area the following trends were found:

<u>Northern offshore-southern Dogger Bank cluster:</u>
There seems to be an overall increase in the abundance of *Lanice conchilega*. This tube building polychaete, usually living in banks, was found in high population densities at several stations in this cluster in 1995. *Spiophanes bombyx*, also a tube building polychaete, and the bivalve *Tellina fabula* also were abundant in 1995 but further showed no trend. The sea urchin, *Echinocardium cordatum*, showed a weakly downward trend in this cluster.

Oyster Ground clusters:
The tube building polychaete *Spiophanes bombyx* was found in low densities compared to preceding years. Further there was no consistent temporal trend in this species. A downward trend can be observed in the echinoderm *Amphiura filiformis* and also in the bivalve *Mysella bidentata*. Distribution and abundance of these species are usually interrelated in the Oyster Ground. The Oyster Ground 1 cluster includes some stations in the Frisian Front area, *e.g.* OYS 36 (the former META 2) where both species have almost completely disappeared. Up to 1992 these species were very abundant in this area (densities of over 1500 ind./$m^2$ were frequently observed) and considered as characteristic for the area. A downward trend in recent years for *A. filiformis* in the Frisian Front has also been observed during summer cruises on behalf of a marine biological course at NIOZ (R. Daan, pers. observation). The low abundance of the species could be explained by decreased settlement of new generations, decreased survival of newly settled generations or increased mortality among adults in recent years, or by a combination of these factors. However, there is no evidence for a specific cause that could explain such changes in the population dynamic of *A. filiformis*.

Southern offshore cluster:
*Spiophanes bombyx* and *Lanice conchilega* occurred in high densities in this cluster, although the latter species showed a slight decrease compared to 1994. There seemed to be a continuous downward trend in *Echinocardium cordatum*. The species was found at only 3 of the 24 stations in this cluster, whereas in 1992 the species was found at each of the 7 'old' BIOMON stations.

Coastal cluster:
The polychaete *Magelona papillicornis* showed an upward trend over the monitoring period. Densities of *Lanice conchilega* were also high, but, like in the southern offshore cluster, somewhat lower than in 1994. Downward trends were observed for the gastropod *Natica alderi* and for the echinoderm *Echinocardium cordatum*.

Based on the results of the 1994 study Holtmann et al. (1995) concluded that there was an overall downward trend for densities of echinoderms. This trend seems to have continued in 1995. Particularly the downward trend of *Echinocardium cordatum* in nearly all subareas is remarkable, but also the decrease of *Amphiura filiformis* in the Oyster Ground supports the conclusion that echinoderms show a downward trend. Since both *E. cordatum* and *A. filiformis* can be considered as relatively long living species (life span substantially longer than one year), they may have a relatively strong indicative value for changing (sediment) conditions on the Dutch Continental Shelf, since in such species the effects of changing conditions are accumulated over the longer term. However, if indeed the conditions have changed, there is no evidence whether these are the consequence of anthropogenic disturbance (*e.g.* fishery or mining activities) or have a natural cause.

Nevertheless, trends in the macrofauna composition seem to be better identified at the species level than at the community level. Therefore, the attention in the North Sea monitoring programme should particularly focus on trendwise changes at the species level. Even, monitoring of only a selection of species could be considered, *e.g.* a selection of more or less long living species that are frequently found in one or more subareas. Such a way of monitoring could reduce the amount of work involved in the current programme. However, there are disadvantages for such an approach. Firstly, it is generally not known to what kind of change in environmental conditions individual species show a typical response. For example, if there are species that display a distinct response to a subtle change in temperature regime, but the selection to which was decided does not include such species, we would fail to obtain any indication that a change in environmental conditions had occurred. A second disadvantage is that we might overlook that there are species that, till now, were only seldom found, but could colonise one or more subareas due to favorable changes in environmental conditions. Finally, in view of an optimal comparison of faunal densities between consecutive years it is necessary to use standardized methods. It is recommended therefore to maintain the current approach during the continued monitoring programme, and to perform complete fauna analyses for the stations sampled.

## 7. Conclusions

The results of the macrobenthos survey of the Dutch Continental Shelf (DCS) in spring 1995 together with information from earlier studies (ICES 1986, MILZON, 1988-1993, BIOMON 1991-1994) lead to the following conclusions:

* On the basis of the fauna composition in different subareas of the DCS in 1995, five cluster areas can be distinguished. In the Oyster Ground there are 2 clusters which correspond to the clusters formerly named Oyster Ground 1 and 2. In the offshore area there are 2 clusters: one cluster consists of stations mainly concentrated in the southern area (southern offshore cluster) and one of stations in the northern area, which have affinity with the southern part of the Dogger Bank stations (northern offshore-southern Dogger Bank cluster). Finally there is a cluster of coastal stations (coastal cluster).

* The area of the Oyster Ground clusters is characterized by fine sand mixed up with a significant mud fraction. The northern offshore-southern Dogger Bank cluster and the coastal cluster are lying in areas with fine to medium sand. The fauna in the southern offshore cluster are inhabitants of medium to coarse sand.

* Compared to previous years, an overall slight increase in median grain size was observed in all subareas in 1995. An overall downward trend in the mud contents of sediments (*i.e.* the fraction 16-63 μm; the smallest fraction <16 μm was not considered) was observed on the Dogger Bank, the offshore area and the coastal area.

* Parallel temporal fluctuations in the mud content at several stations in the southern offshore area indicate that year-to-year changes are structural temporal trends that extend over a wide area. These long-term trends do not indicate a clear-cut increase or decrease in the whole monitoring area.

* Changes in macrofauna characteristics at the community level (diversity, density or biomass) generally did not show a clear temporal trend. However, there seemed to be a slight increase in species richness in recent years compared to the period before 1992.

* The polychaete *Lanice conchilega*, which showed an overall upward trend up to 1994, was still abundant in 1995, particularly in the northern offshore-southern Dogger Bank, the southern offshore and the coastal clusters. In the coastal cluster an upward trend was also found in the polychaete *Magelona papillicornis*.

* An overall downward trend can be observed for echinoderms, in particular for *Amphiura filiformis* in the two Oyster Ground clusters and for *Echinocardium cordatum* in the other clusters.

* With respect to future monitoring, continuation of the standardized programme for sampling and analyses (macrofauna and sediment composition), such as used in this study, is recommended.

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# Figures and Tables

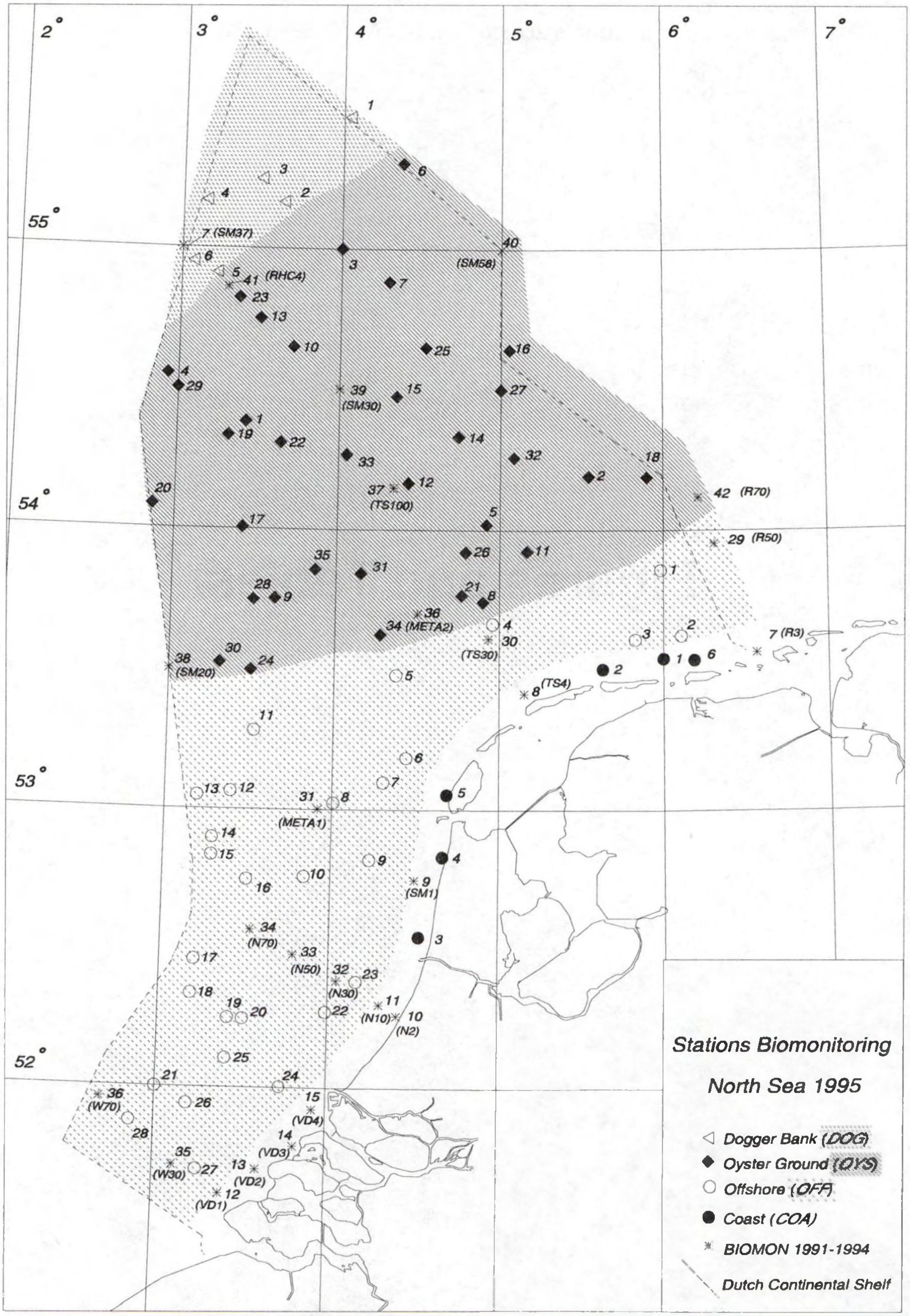



*Fig. 1. Locations of the sampling stations which have been visited during the survey in 1995.*

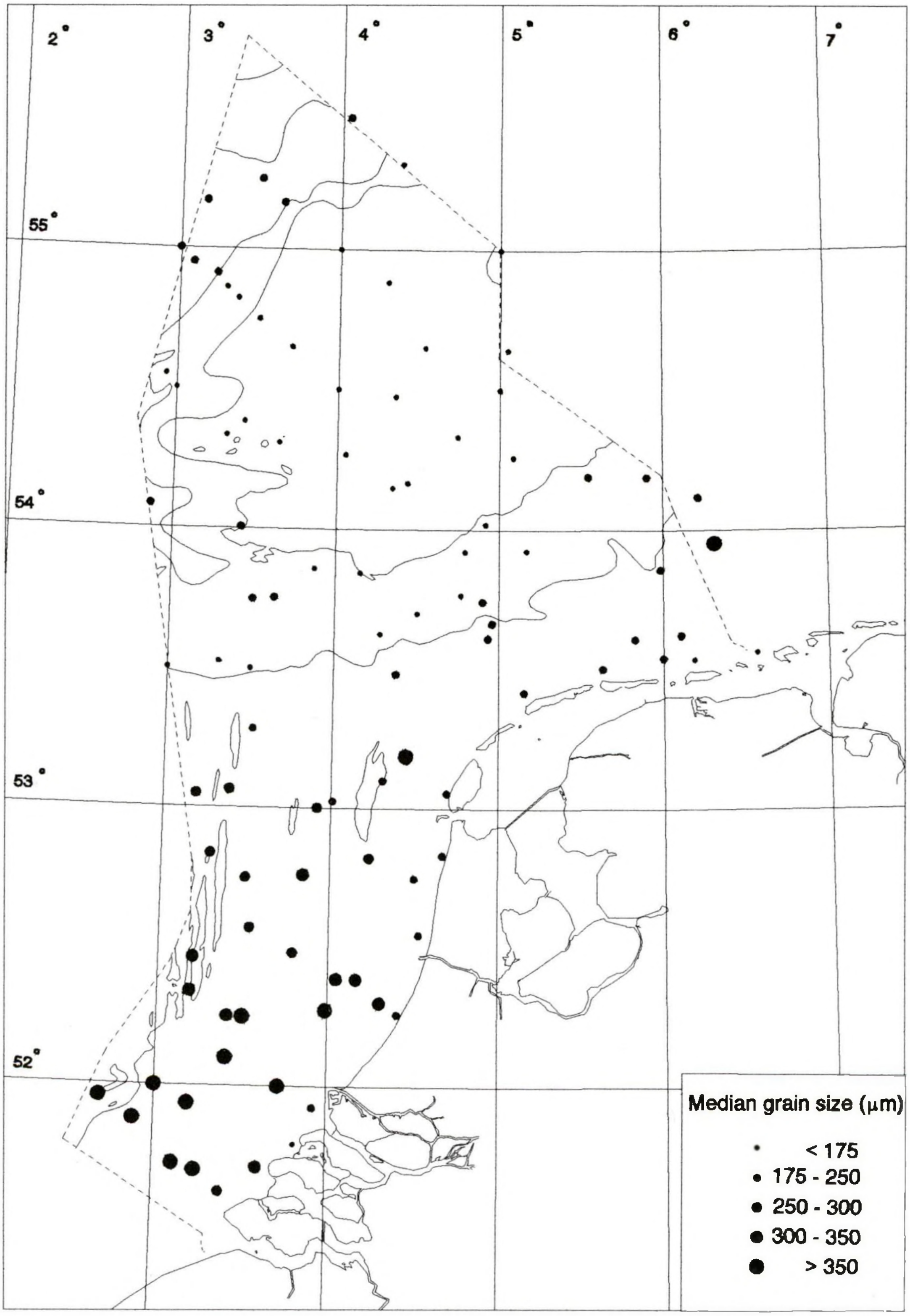



Fig. 2. Median grain size (µm) of the sediment in 1995

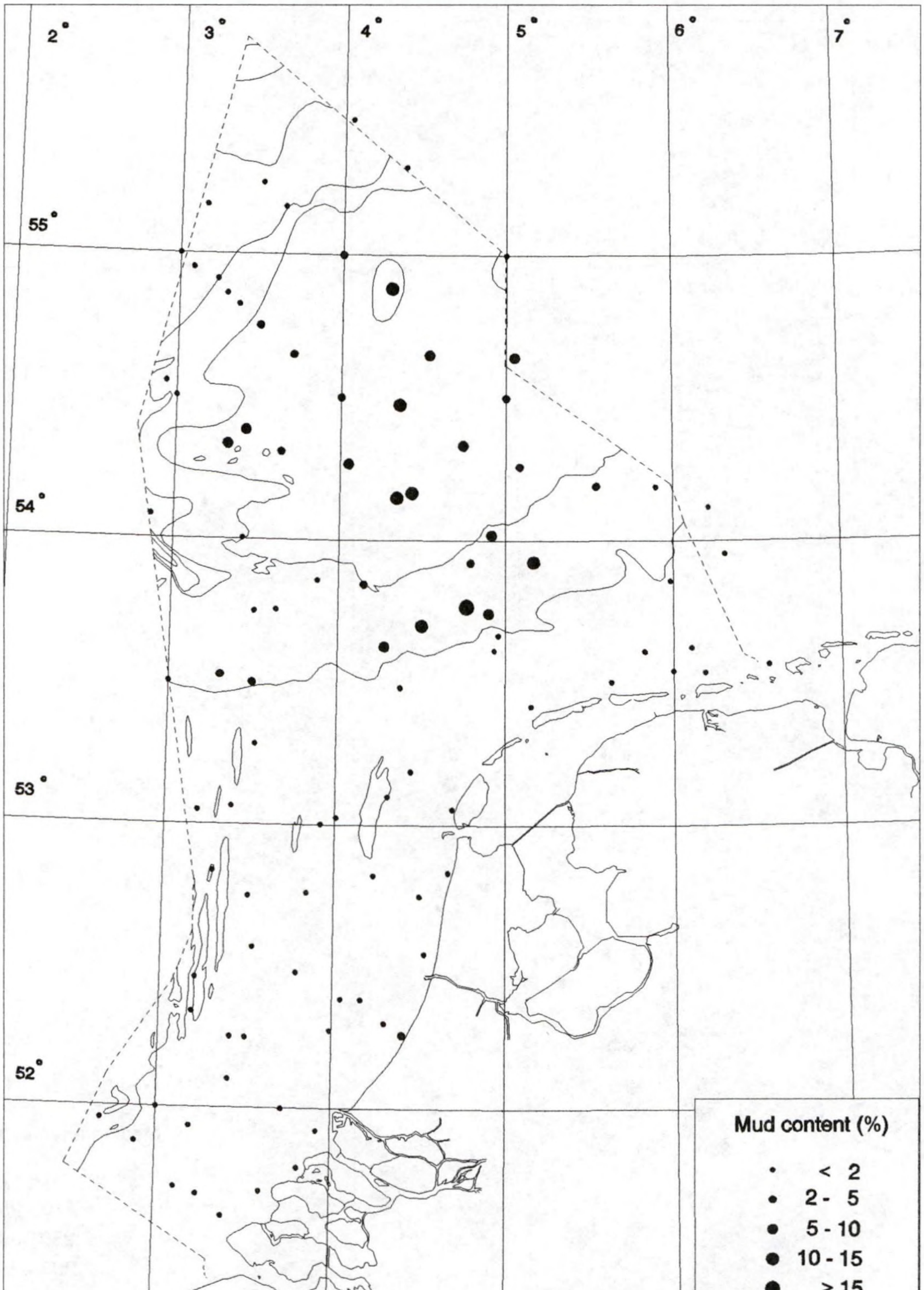



Fig. 3. Mud content (%, 16 - 63 μm) of the sediment in 1995.

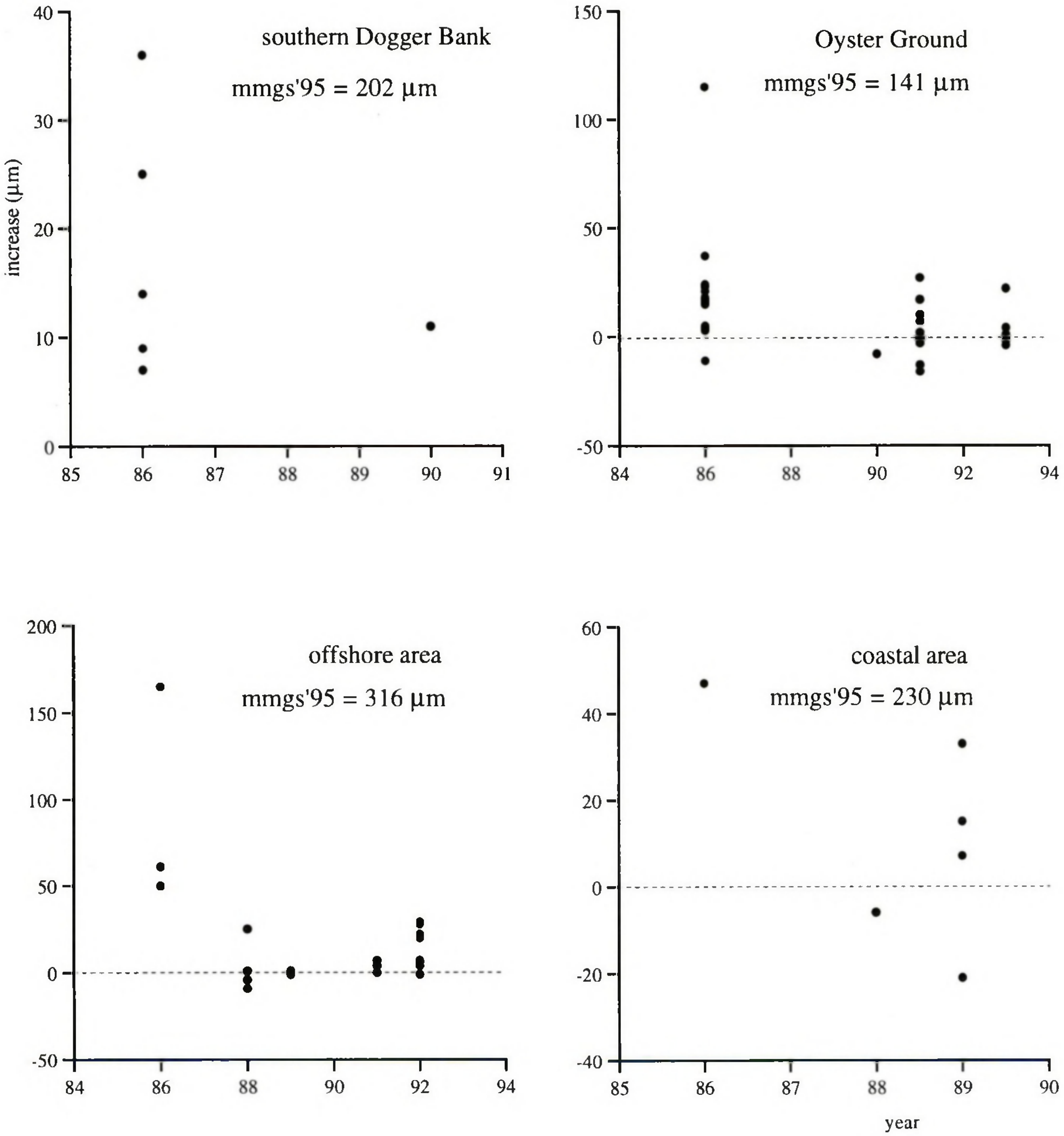



Fig. 4. Increase (or decrease) of median grainsize at stations in the 4 areas in 1995 compared to previous years. Each point refers to a station that was previously sampled during either the ICES-NSBS or MILZON programme. Horizontal axis: year to which the 1995 data are compared. Vertical axis: increase or decrease in 1995 compared to previous years. mmgs'95 = mean median grainsize in 1995.

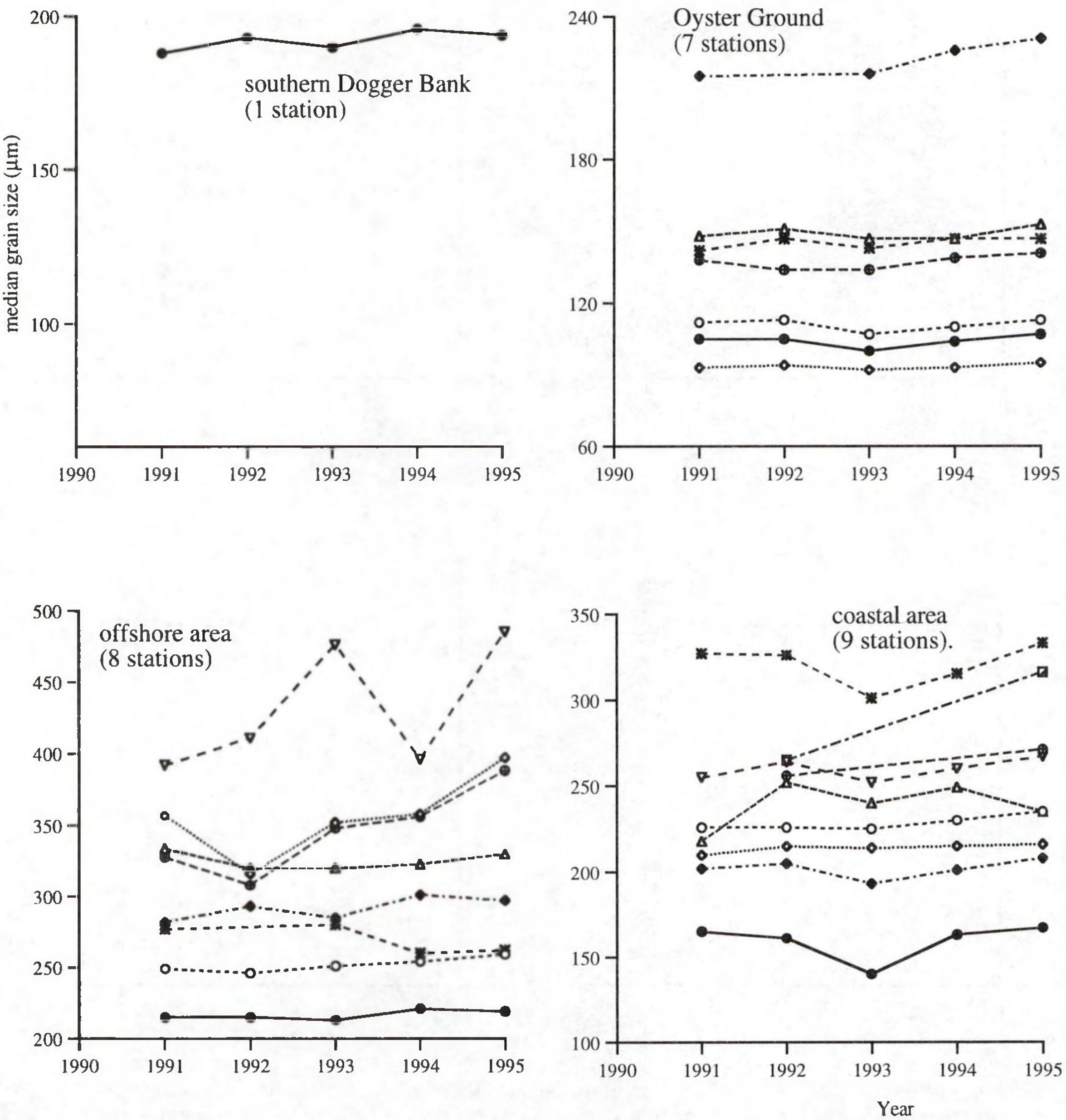



Fig. 5. Median grainsize (µm) of the sediments at 25 BIOMON stations between 1991 and 1995.

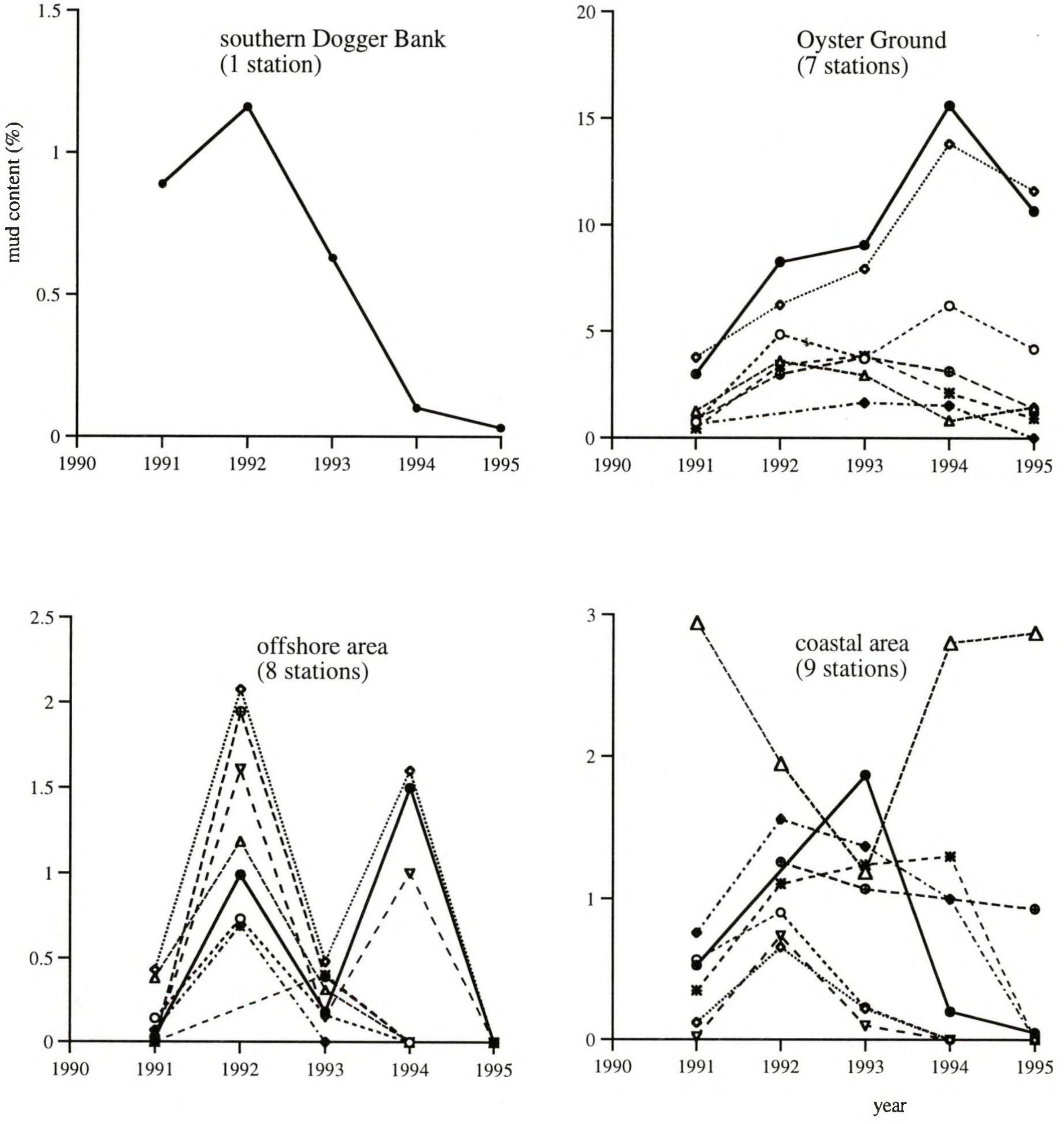



Fig. 6. Mud content (fraction 16-63 μm) of the sediments at 25 BIOMON stations between 1991 and 1995.

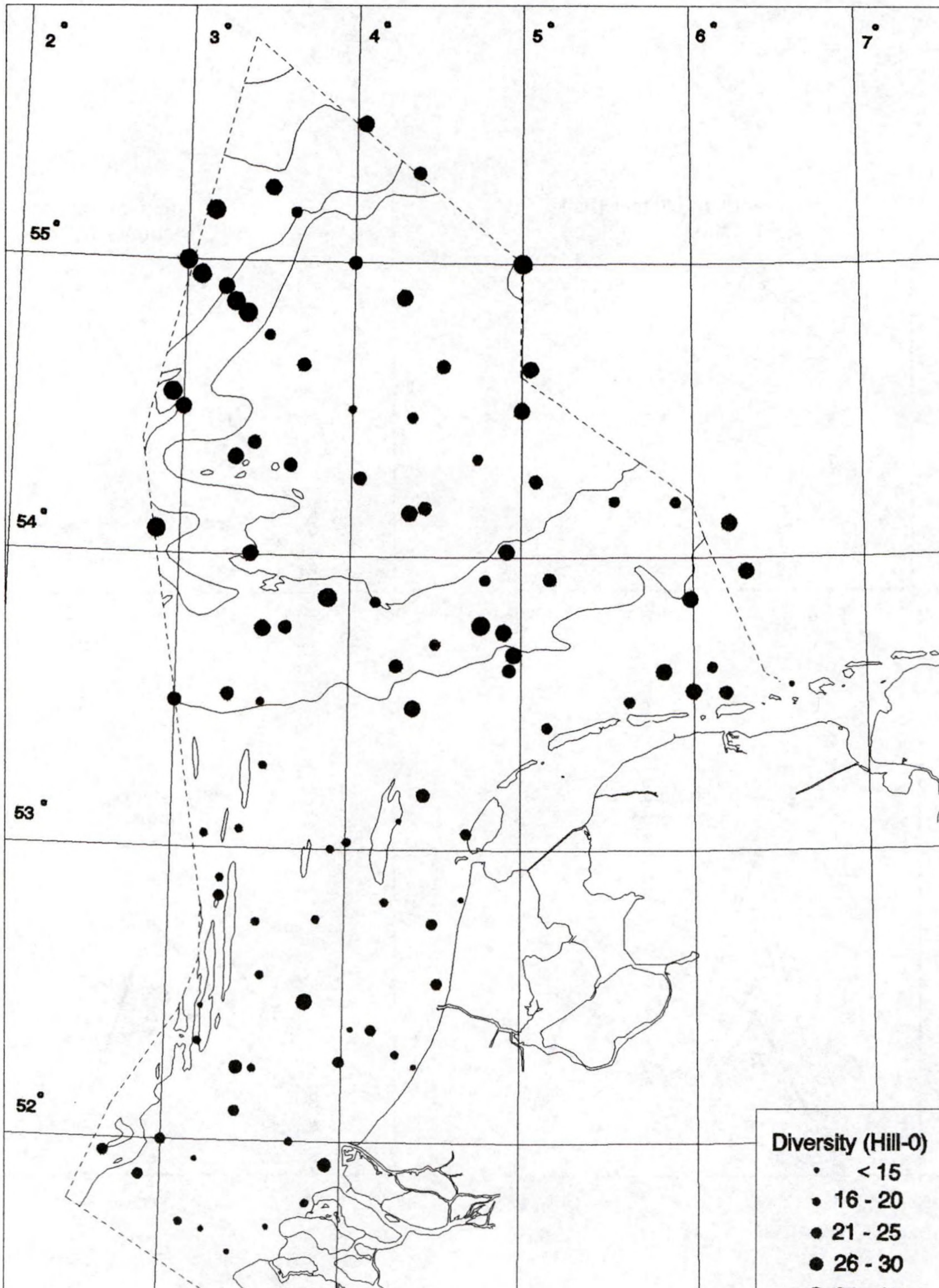



Fig. 7. Number of species (Hill(0)-diversity) of the macrozooobenthos in 1995.

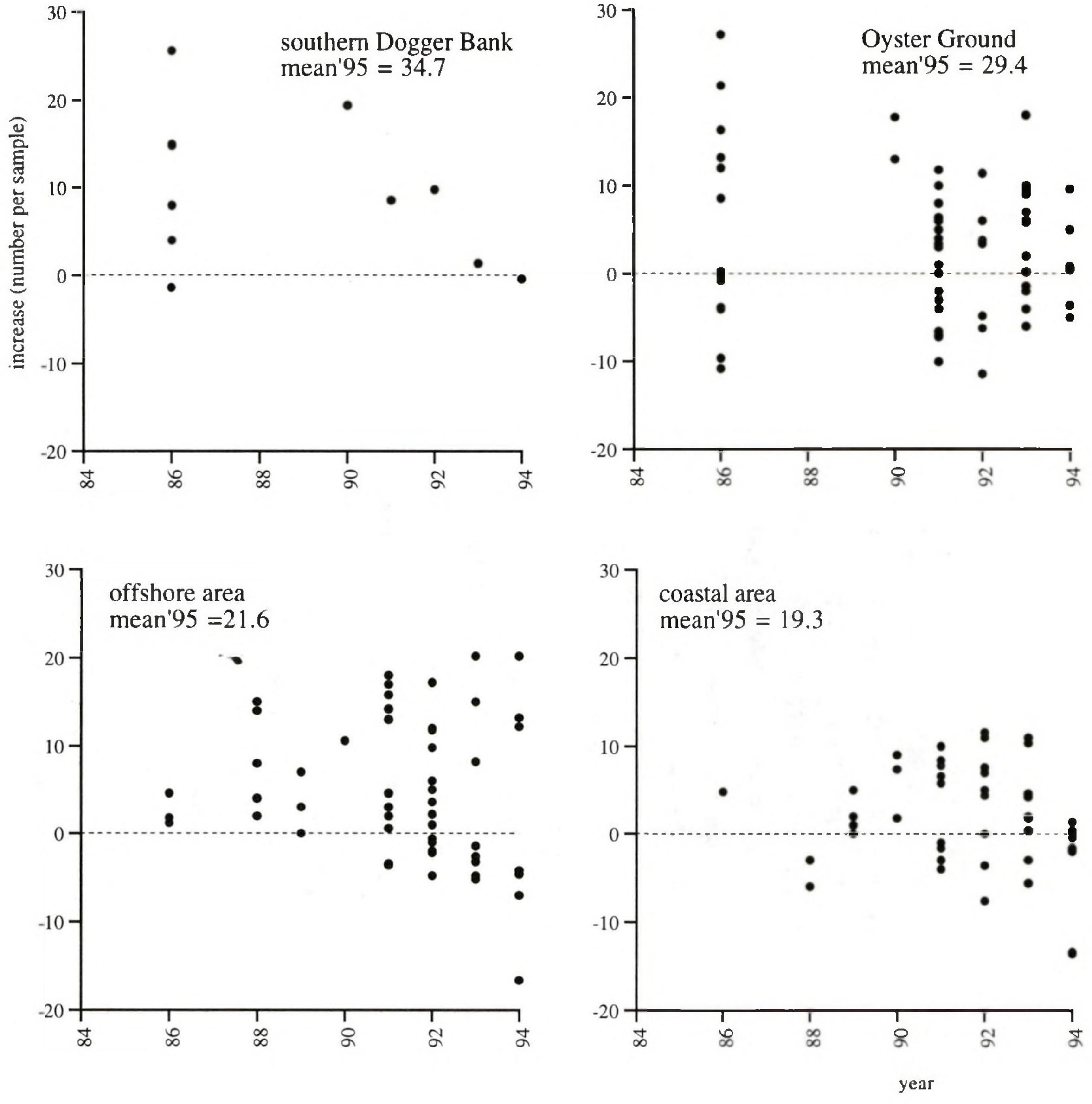



Fig. 8. Increase (or decrease) in numbers of species per boxcore (Hill 0) at stations in the 4 areas compared to preceding years. Each point refers to a station that was previously sampled during either the ICES-NSBS, MILZON or BIOMON programme.Horizontal axis: year to which the 1995 data are compared. Vertical axis: increase or decrease in 1995 compared to previous years.
mean'95 = mean number of species per sample in 1995.

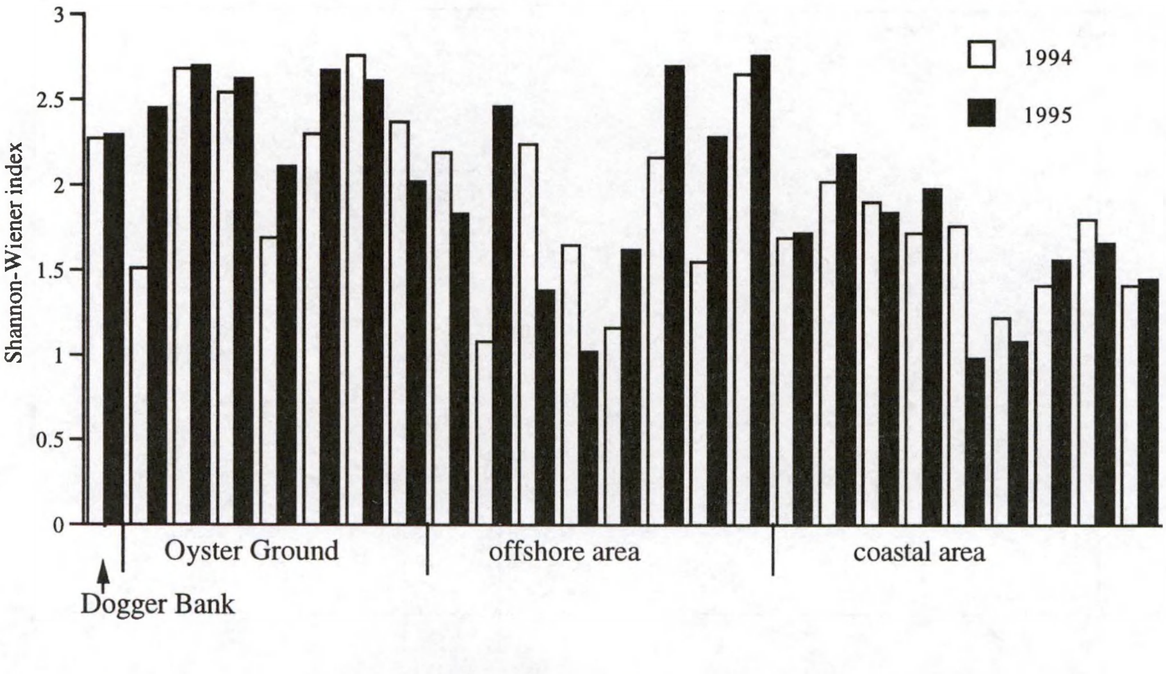



Fig. 9. Shannon-Wiener diversity at 25 BIOMON stations in1994 and 1995.

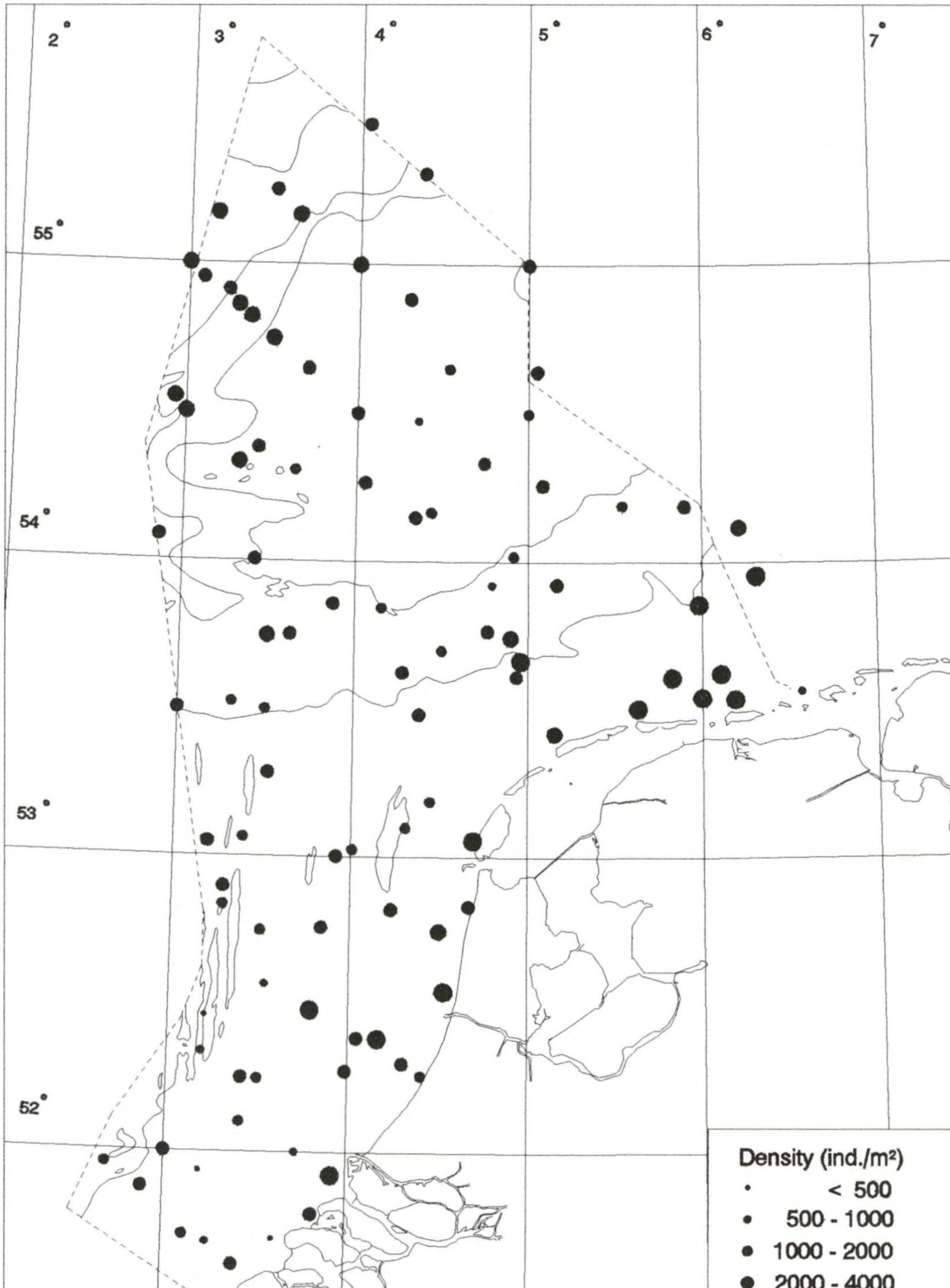



Fig. 10. Total density (ind./m²) of the macrozooobenthos in 1995.

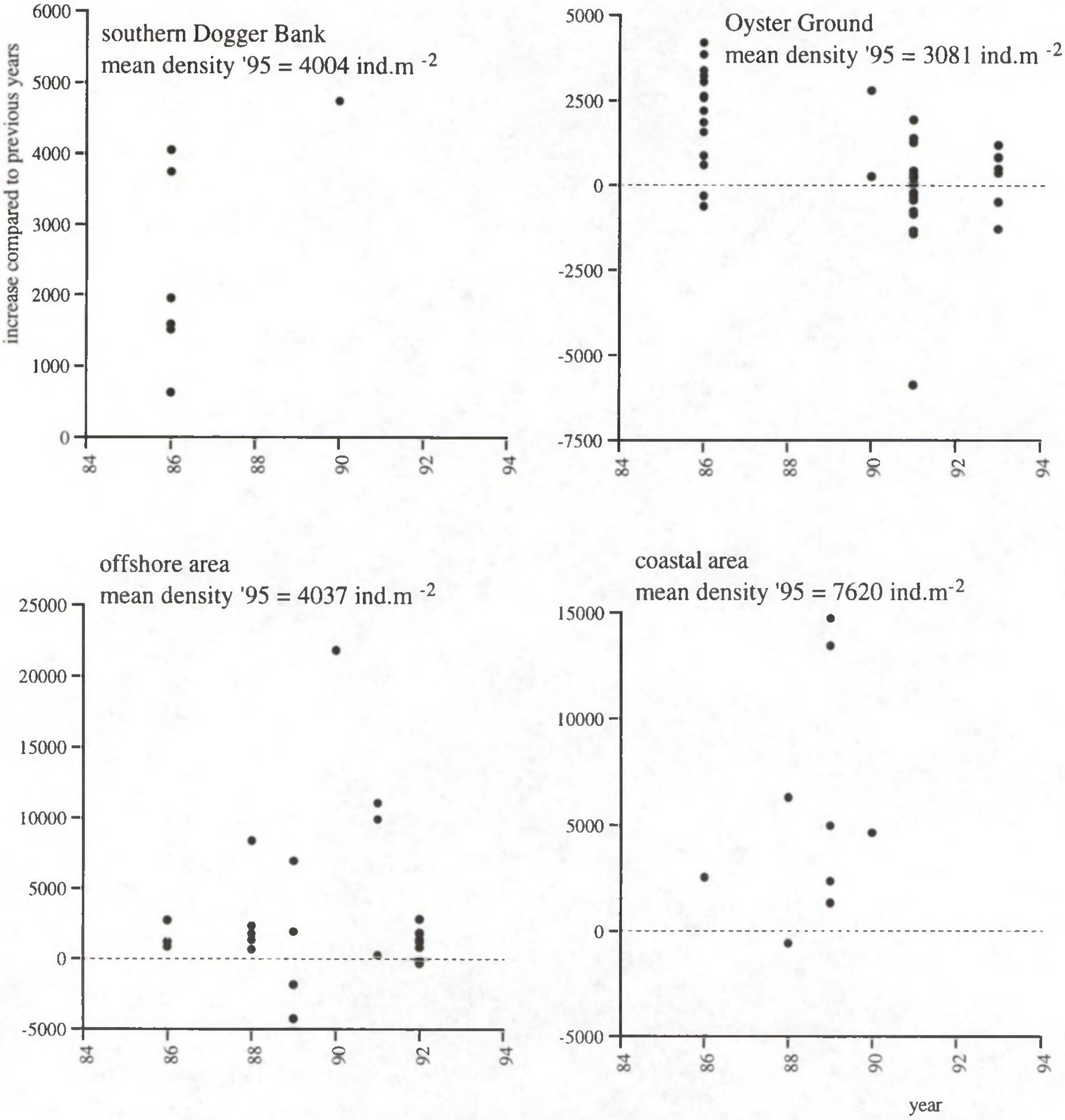



Fig. 11. Increase (or decrease) in numbers of individuals per m2 at stations in the 4 areas in 1995 compared to preceding years. Each point refers to a station that was previously sampled during either the MILZON or ICES-NSBS programme.Horizontal axis: year to which the 1995 data are compared. Vertical axis: increase or decrease in 1995 compared to previous years.

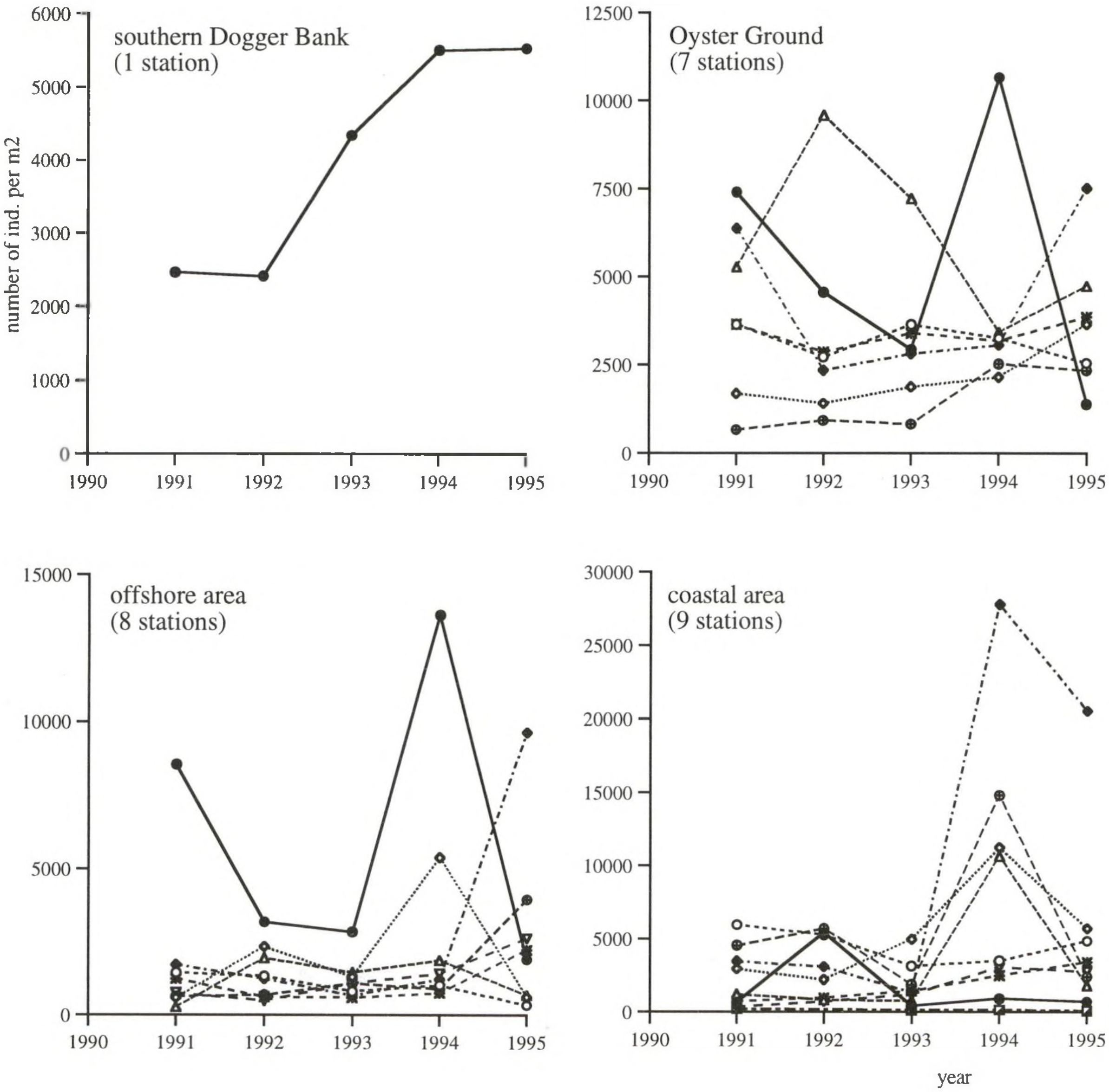



Fig. 12. Fauna abundance (numbers of individuals per m$^2$) at 25 BIOMON stations between 1991 and 1995.

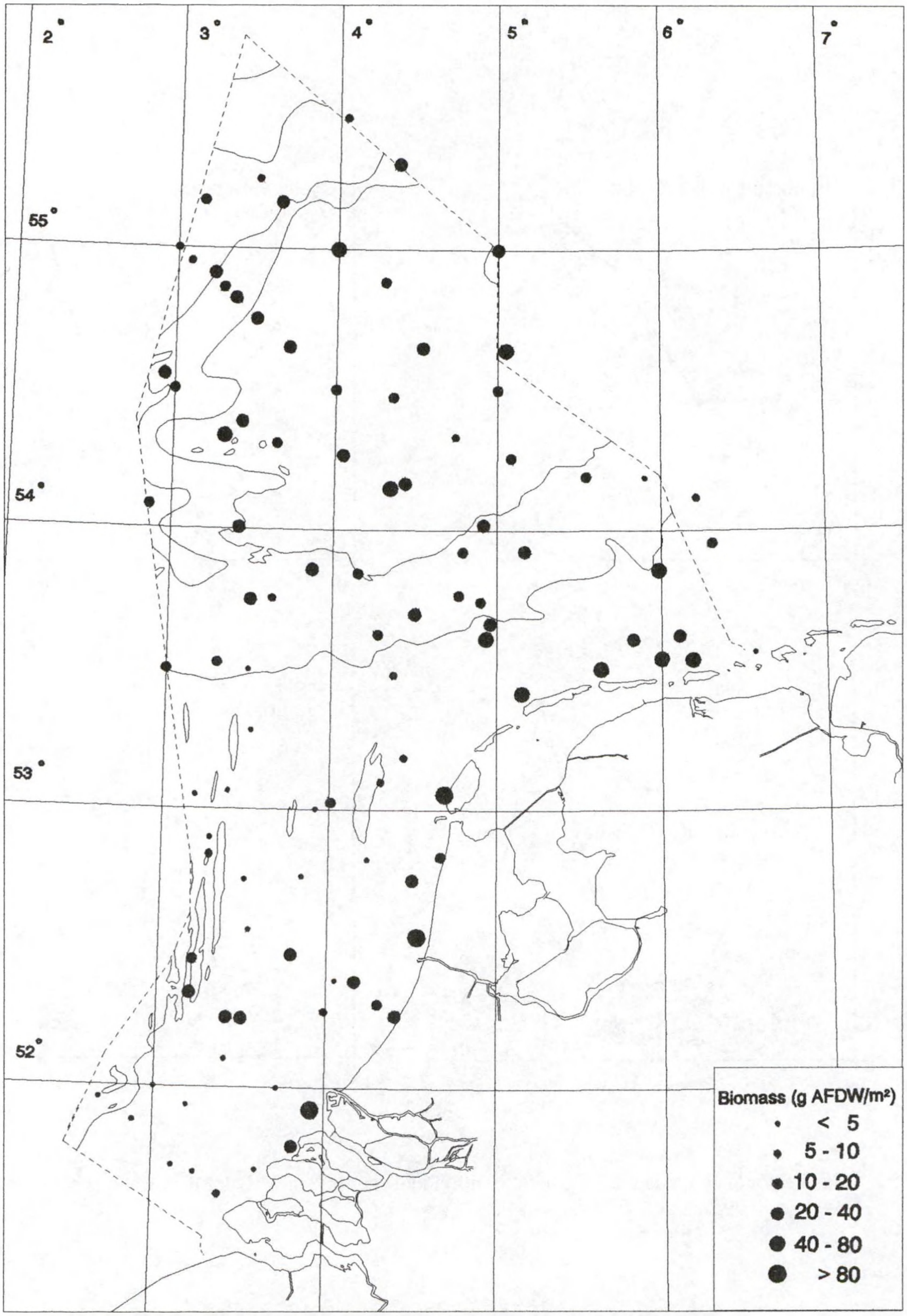



Fig. 13. Total biomass (g AFDW/m²) of the macrozooobenthos in 1995.

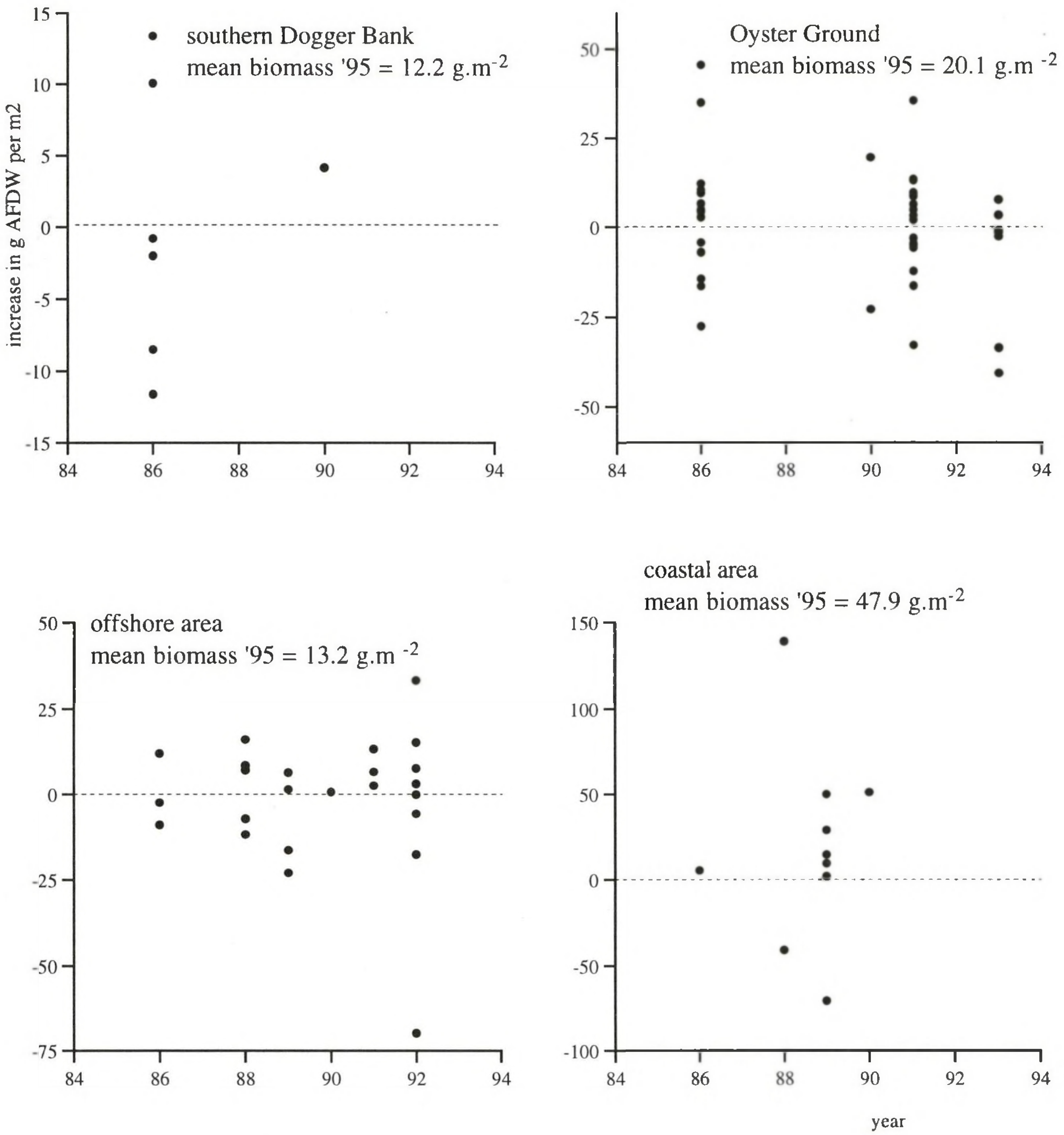



Fig. 14. Increase (or decrease) of biomass at stations in the 4 areas in 1995 compared to preceding years. Each point refers to a station previously sampled during either the ICES-NSBS or MILZON programme. Horizontal axis: year to which the 1995 data are compared. Vertical axis: increase or decrease in 1995 compared to previous years.

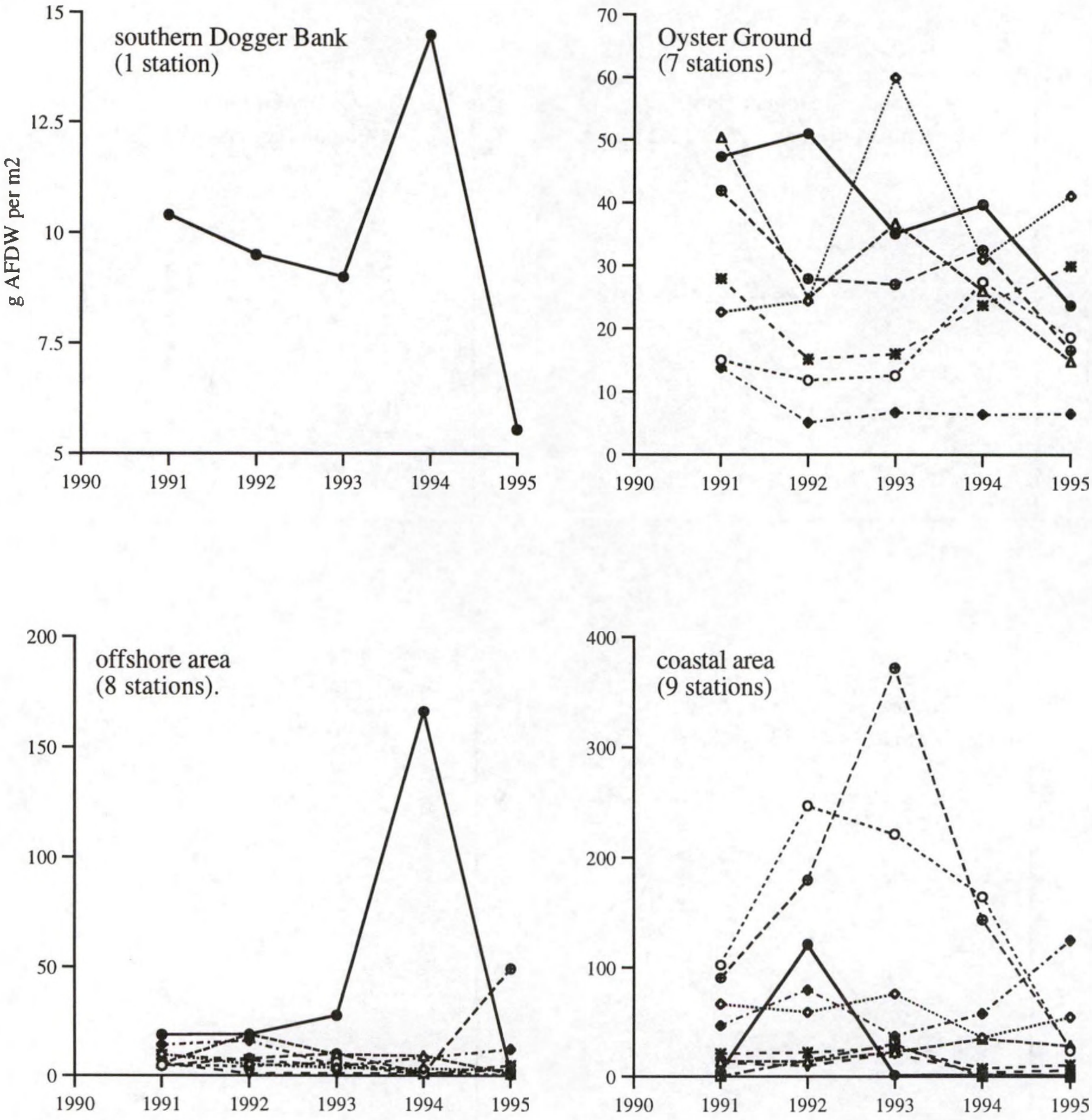



Fig. 15. Biomass values (g AFDW per $m^2$) at 25 BIOMON stations between 1991 and 1995.

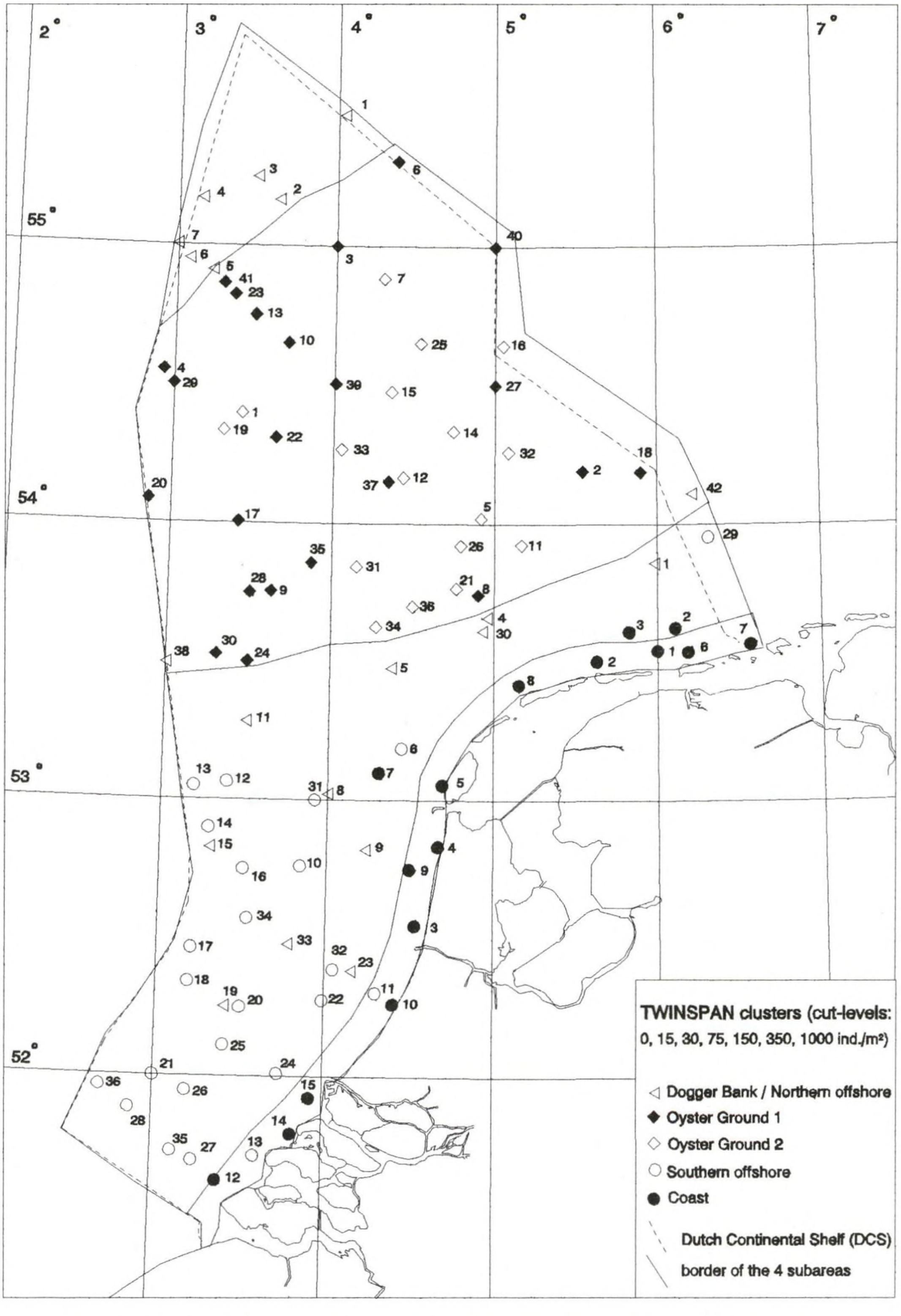



Fig. 16. TWINSPAN clustering of the macrobenthos density (ind./m²) in 1995.

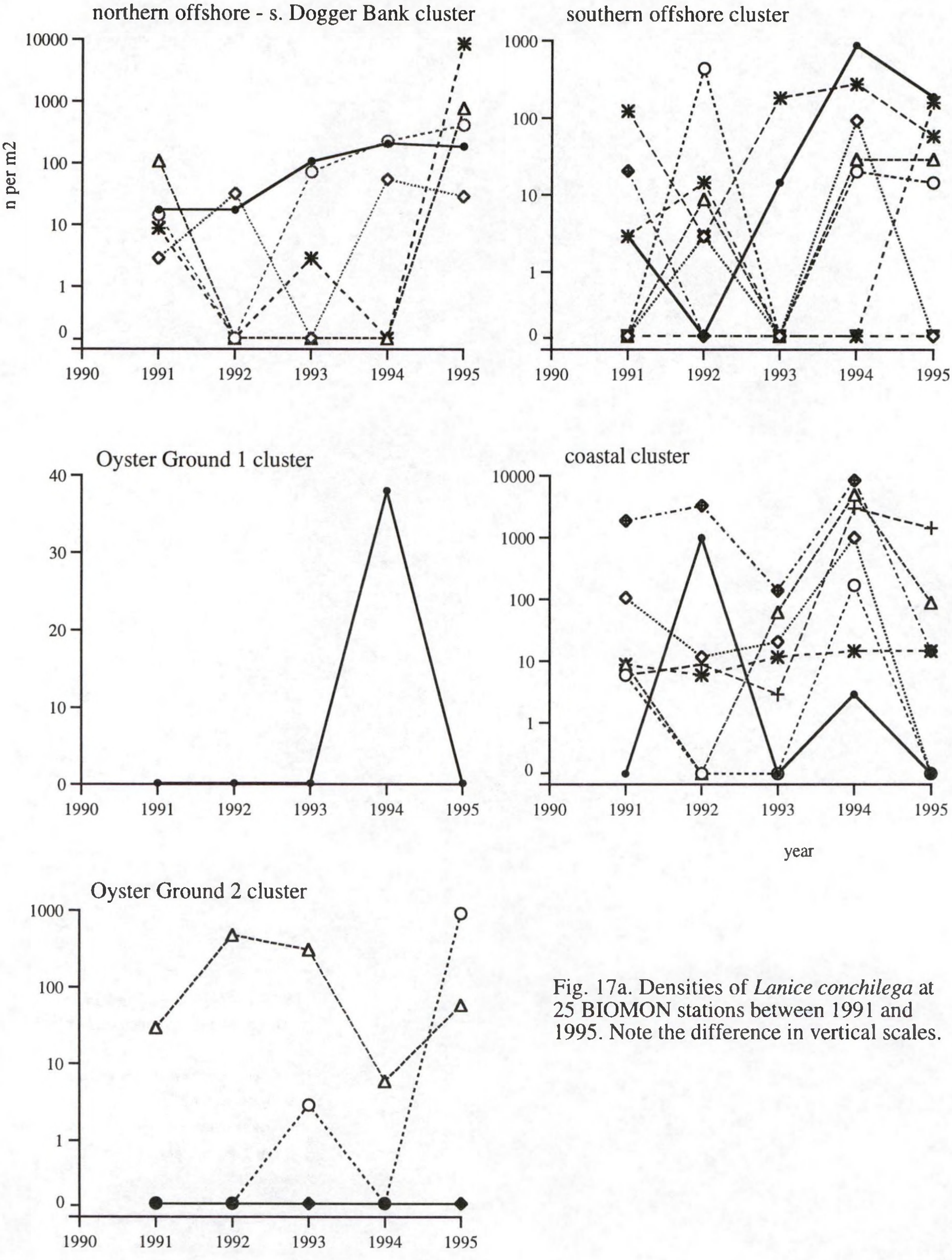



Fig. 17a. Densities of *Lanice conchilega* at 25 BIOMON stations between 1991 and 1995. Note the difference in vertical scales.

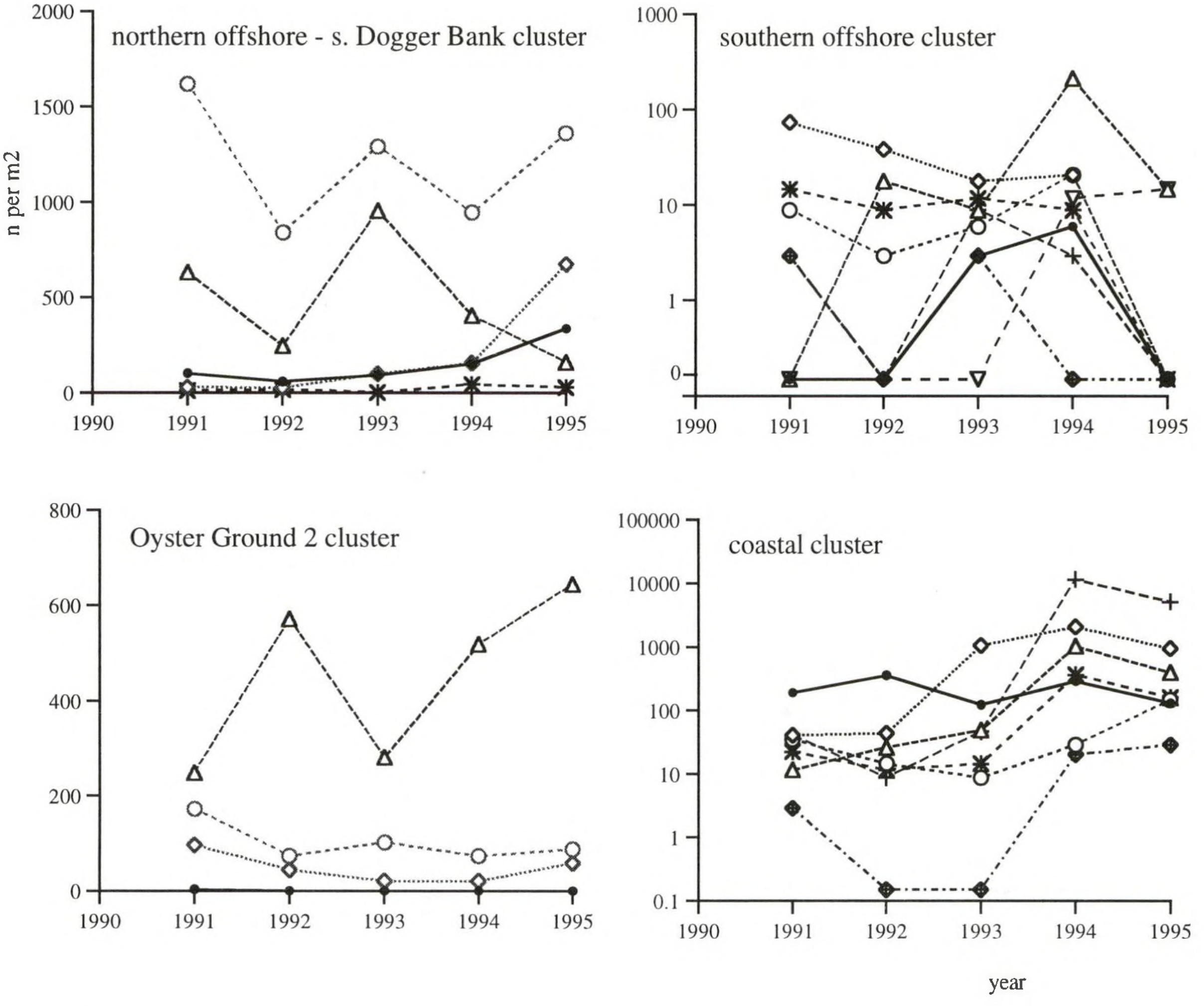
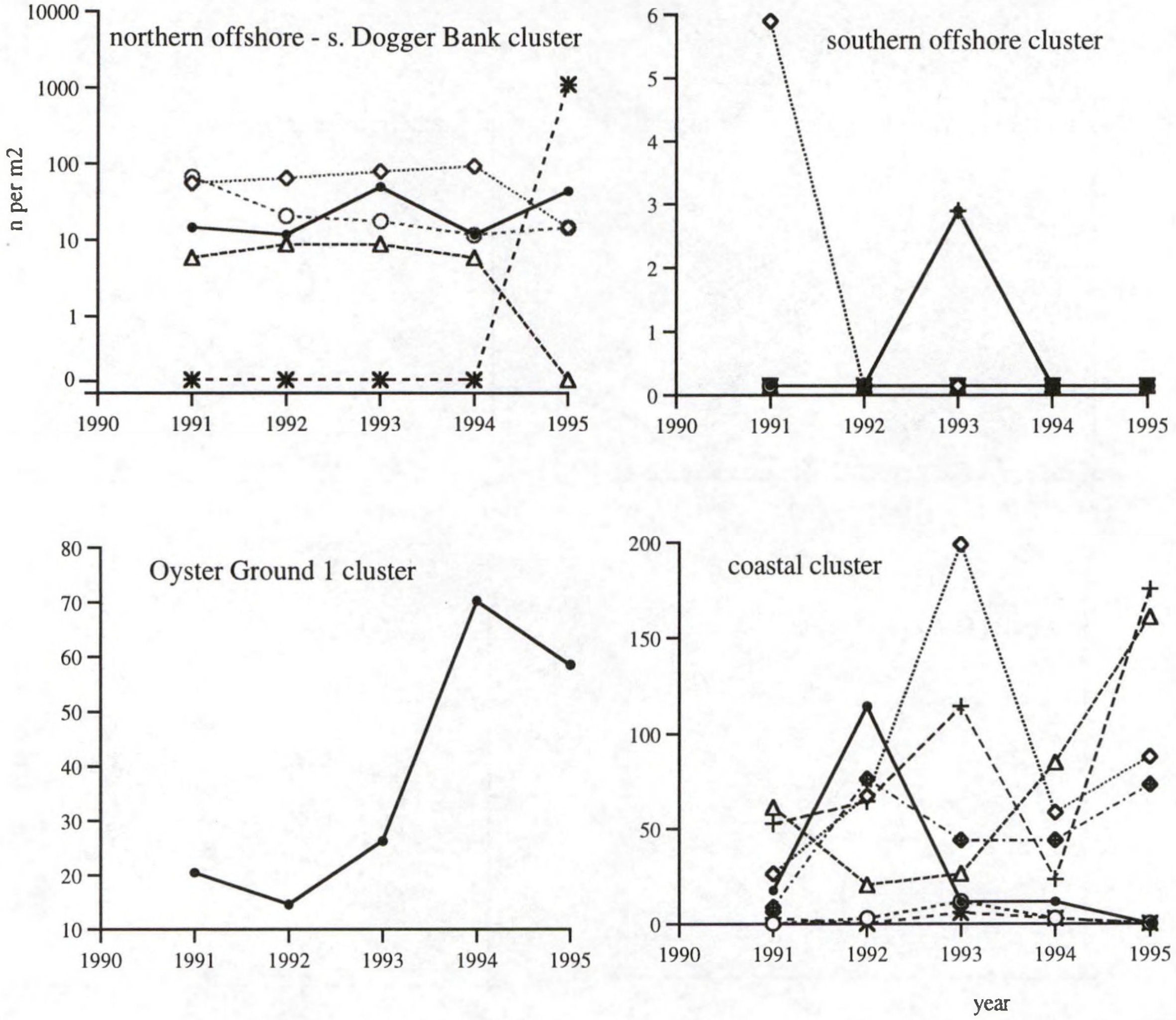



Fig. 17b. Densities of *Magelona papillicornis* at 24 BIOMON stations between 1991 and 1995. (At the station in the Oyster Ground 1 cluster the species has never been found.) Note the difference in vertical scales.



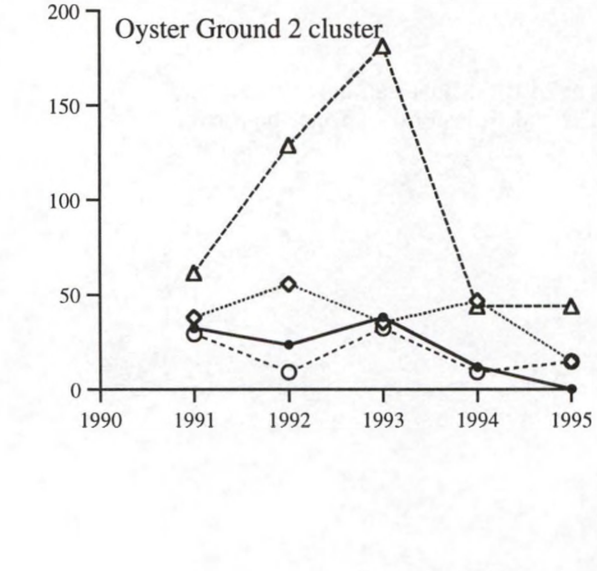




Fig. 17c. Densities of *Nephtys hombergii* at 25 BIOMON stations between 1991 and 1995. Note the difference in vertical scales.

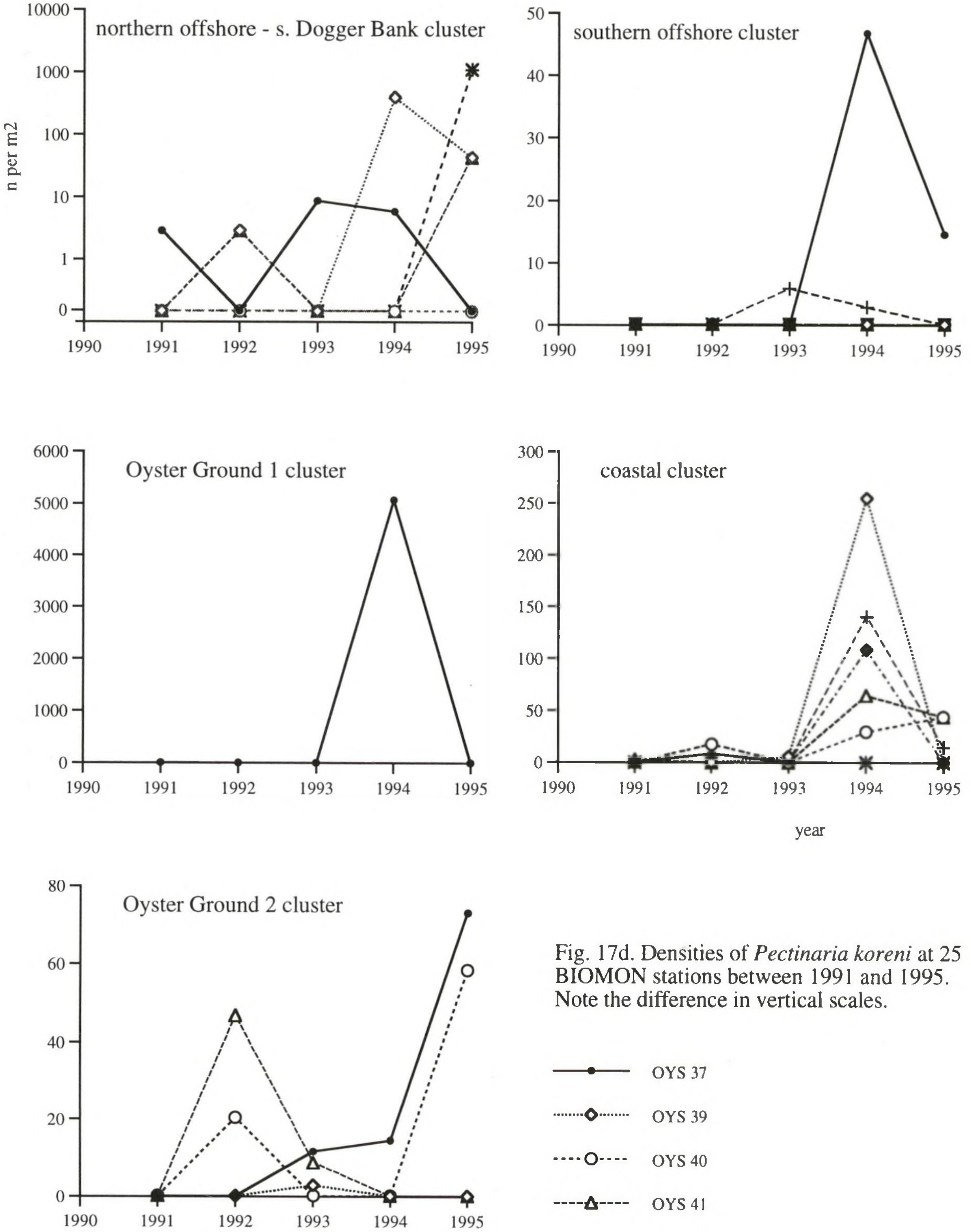
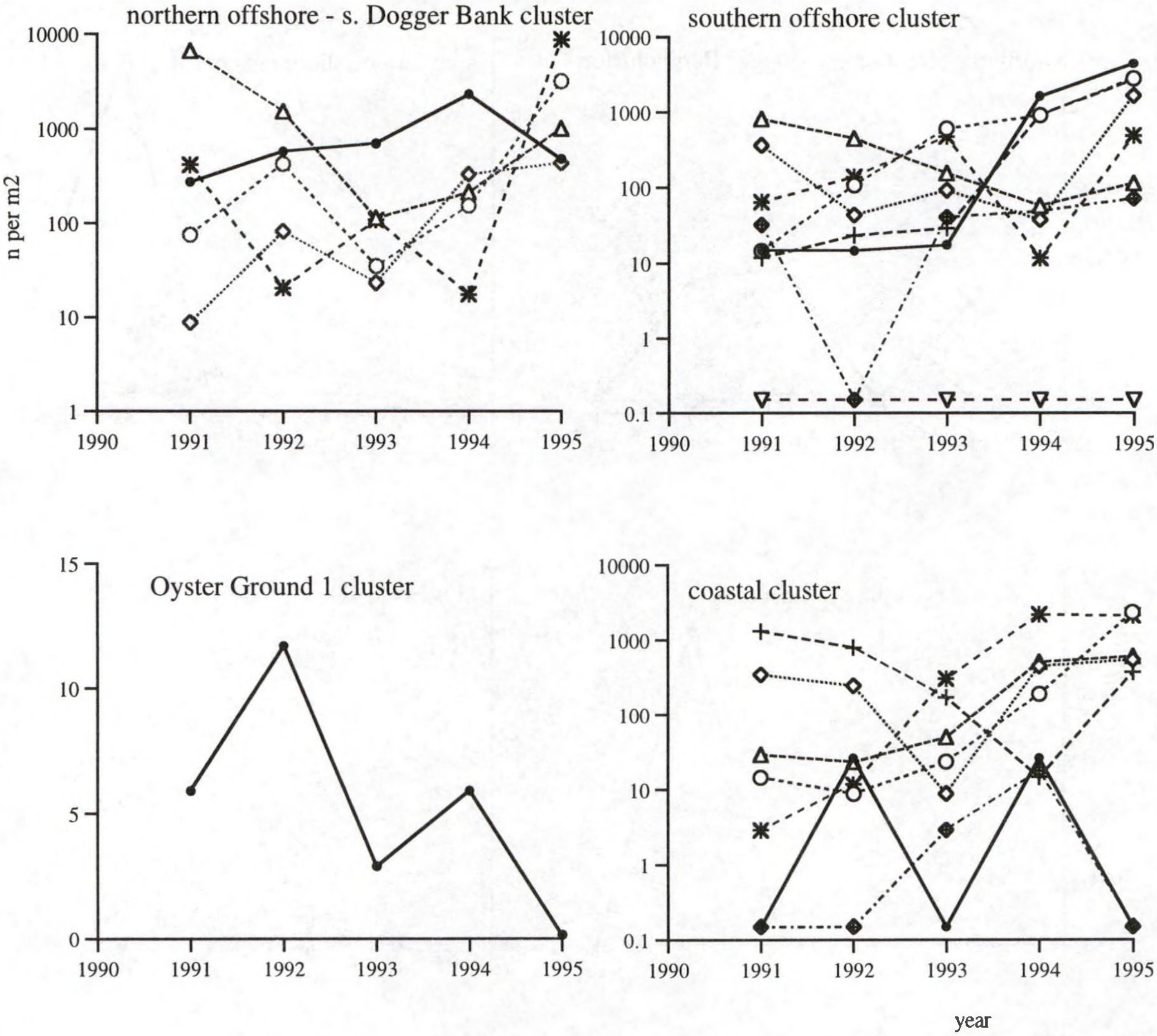



Fig. 17d. Densities of *Pectinaria koreni* at 25 BIOMON stations between 1991 and 1995. Note the difference in vertical scales.



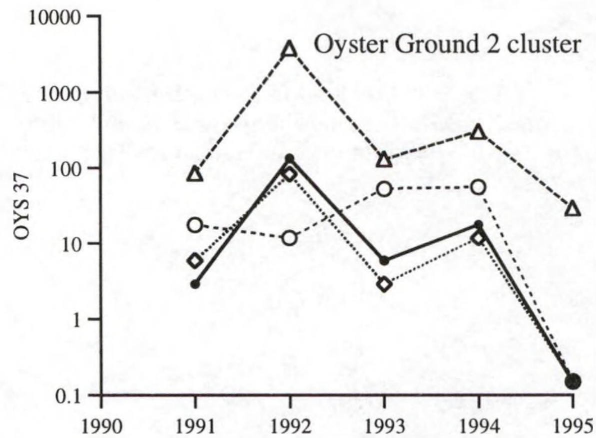
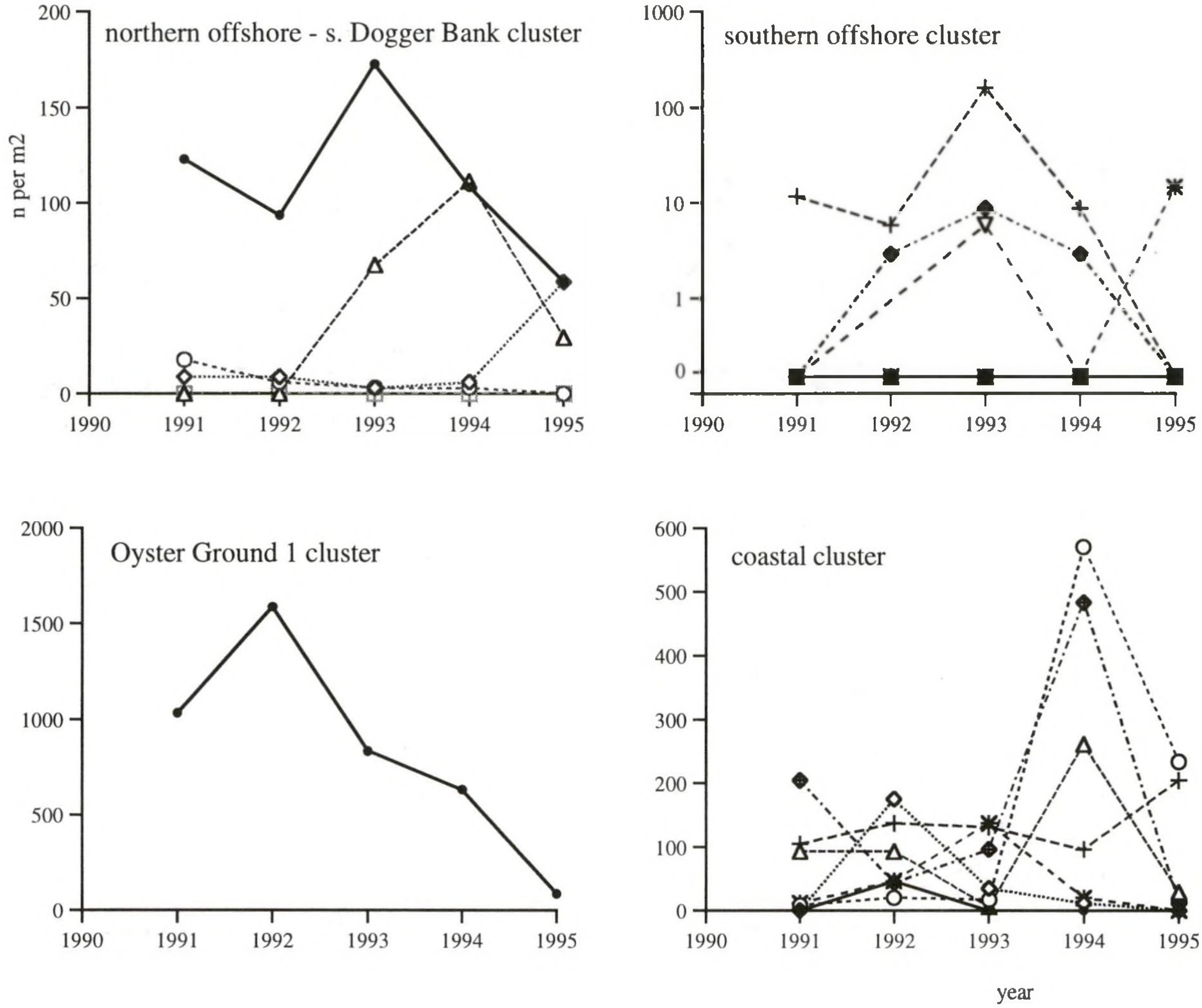




Fig. 17e. Densities of *Spiophanes bombyx* at 25 BIOMON stations between 1991 and 1995. Note the difference in vertical scales.



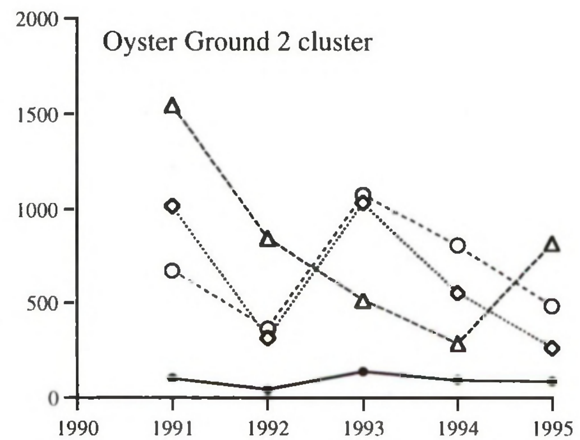
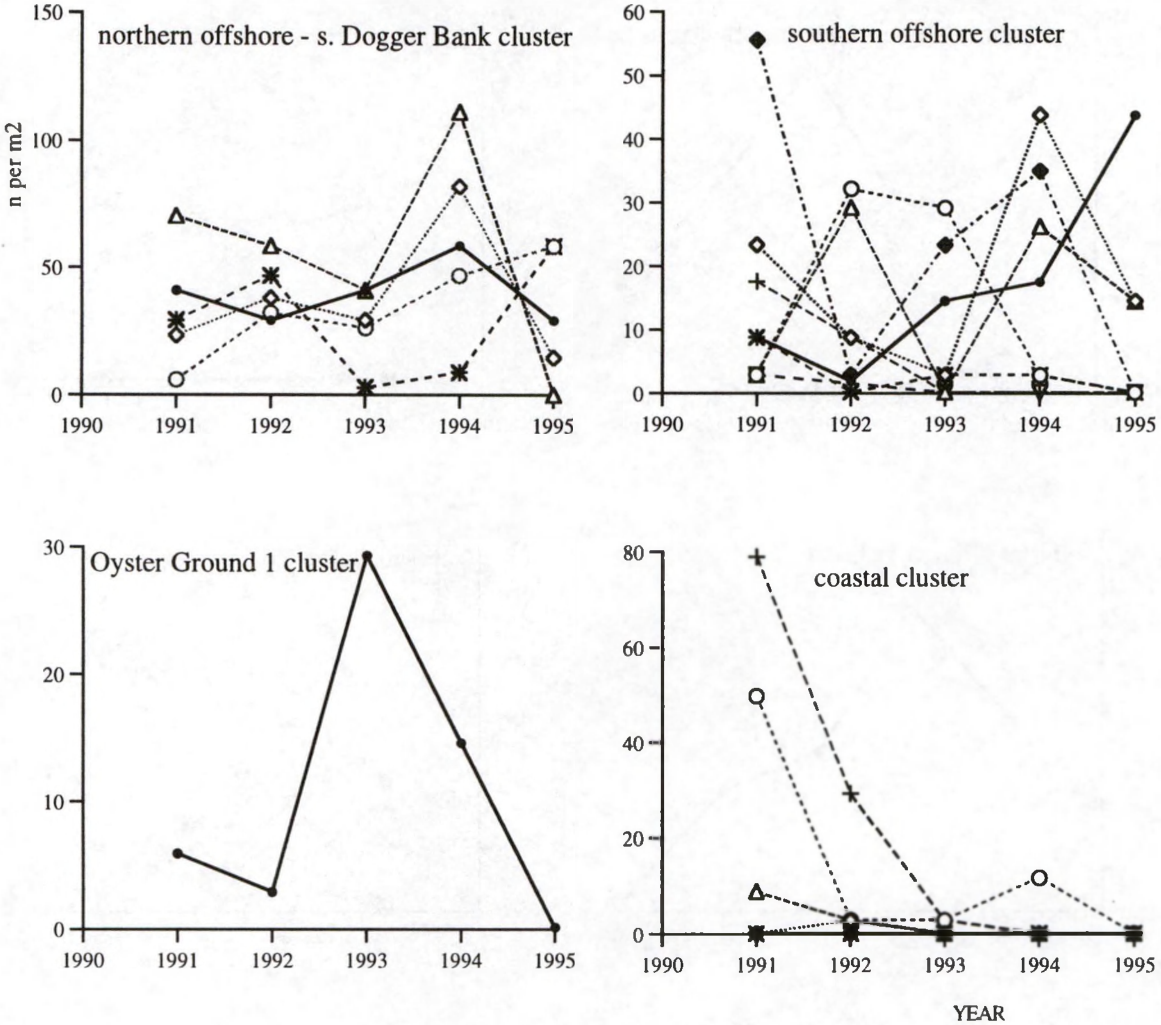




Fig.17f. Densities of *Mysella bidentata* at 25 BIOMON stations between 1991 and 1995. Note the difference in vertical scales.



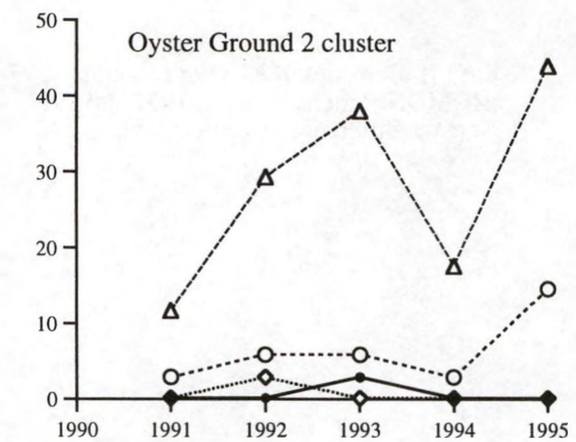




Fig. 17g. Densities of *Natica alderi* at 25 BIOMON stations between 1991 and 1995. Note the difference in vertical scales.

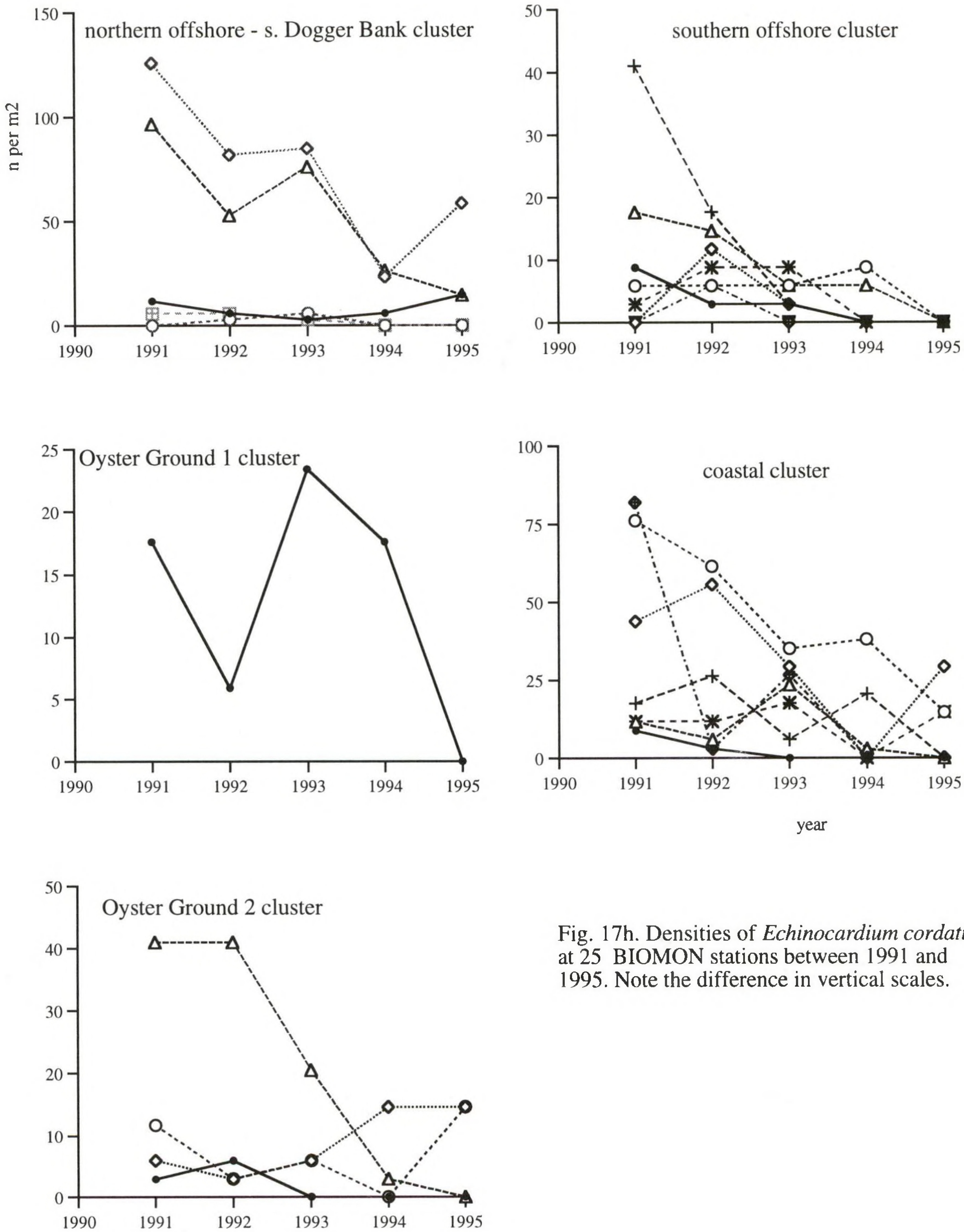



Fig. 17h. Densities of *Echinocardium cordatum* at 25 BIOMON stations between 1991 and 1995. Note the difference in vertical scales.

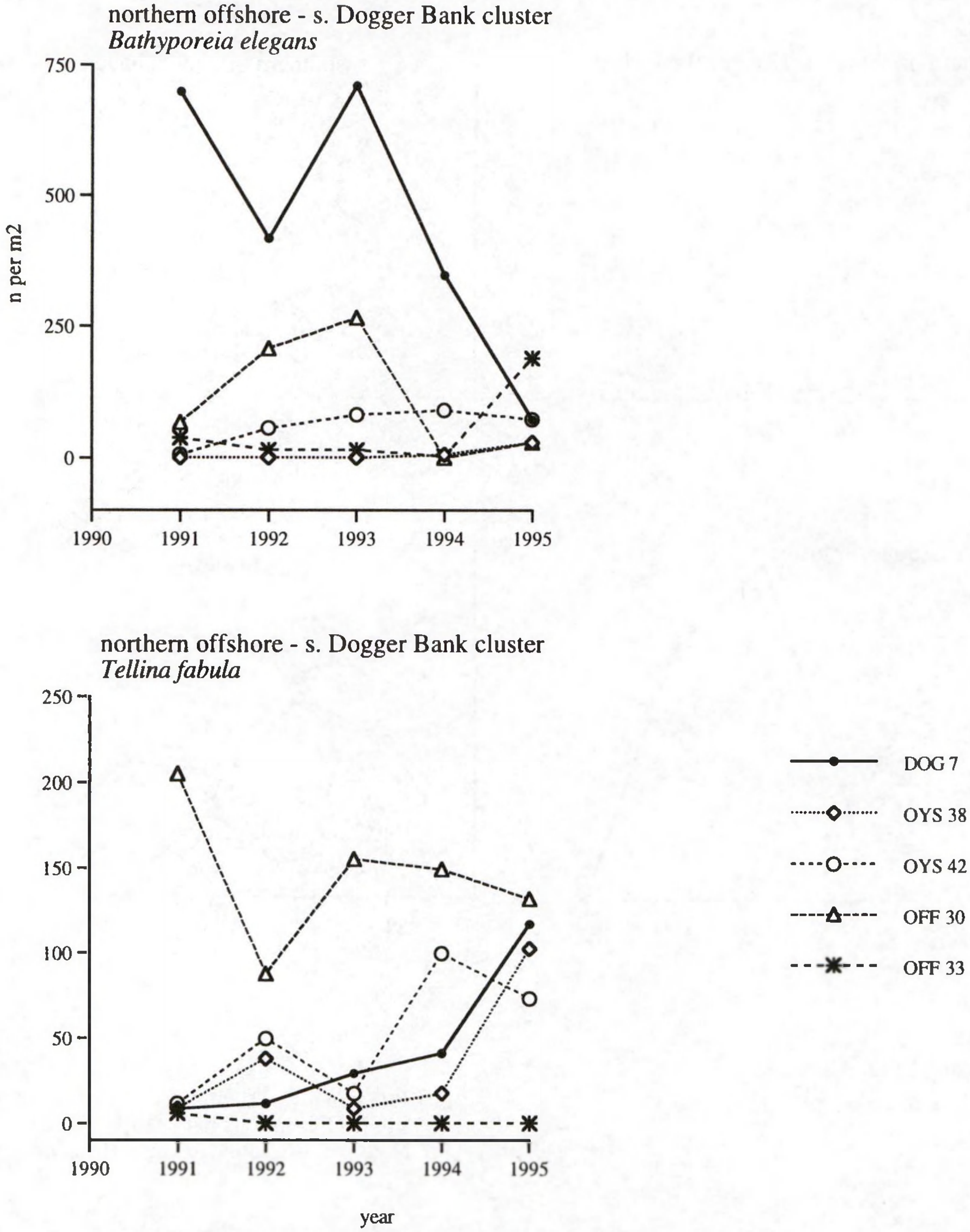



Fig. 18a. Temporal abundance patterns of 2 species characteristic of the northern offshore - s. Dogger Bank cluster at 5 stations in this cluster between 1991 and 1995.

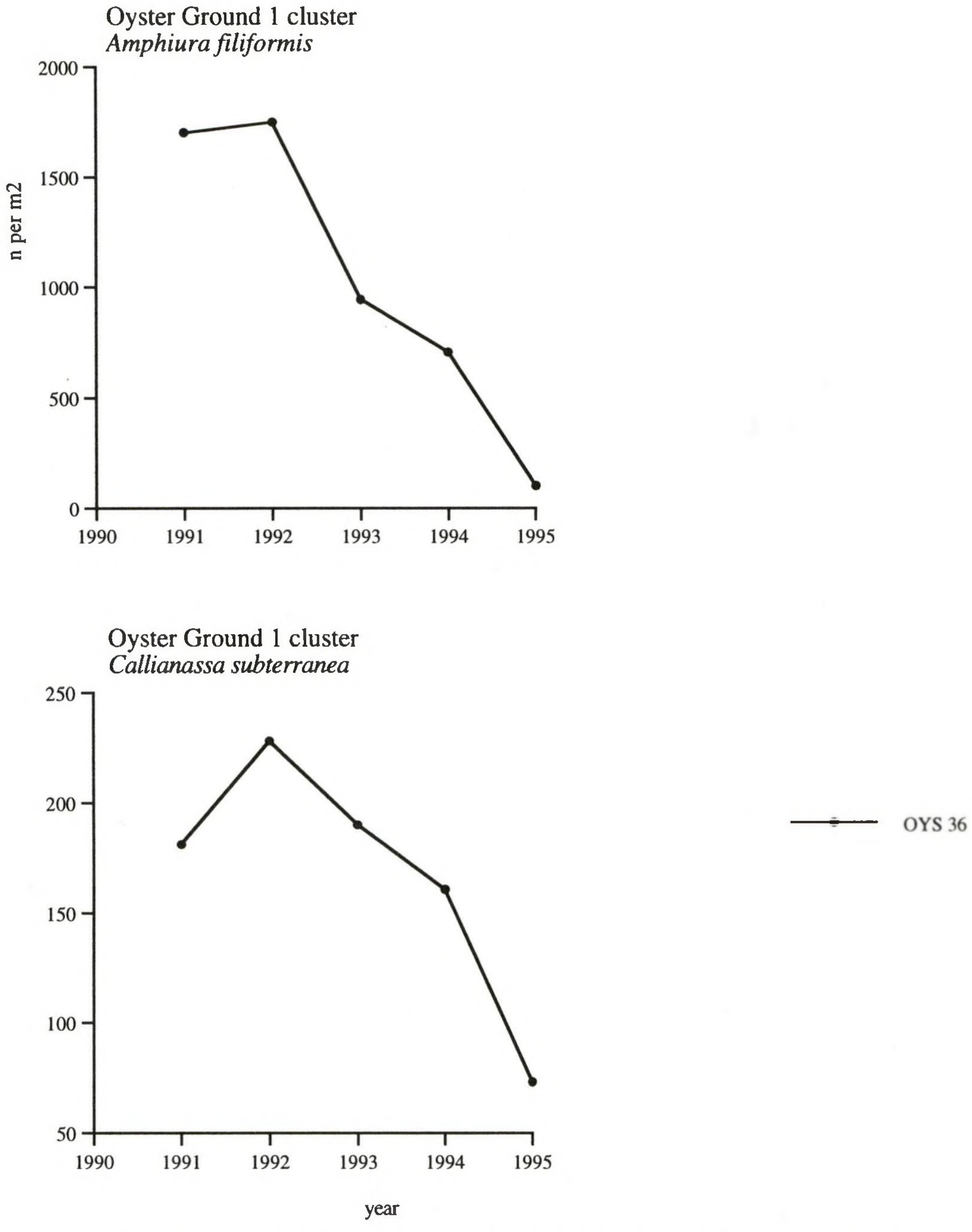



Fig. 18b. Temporal abundance patterns of 2 species characteristic of the Oyster Ground 2 cluster at 1 station in this cluster between 1991 and 1995.

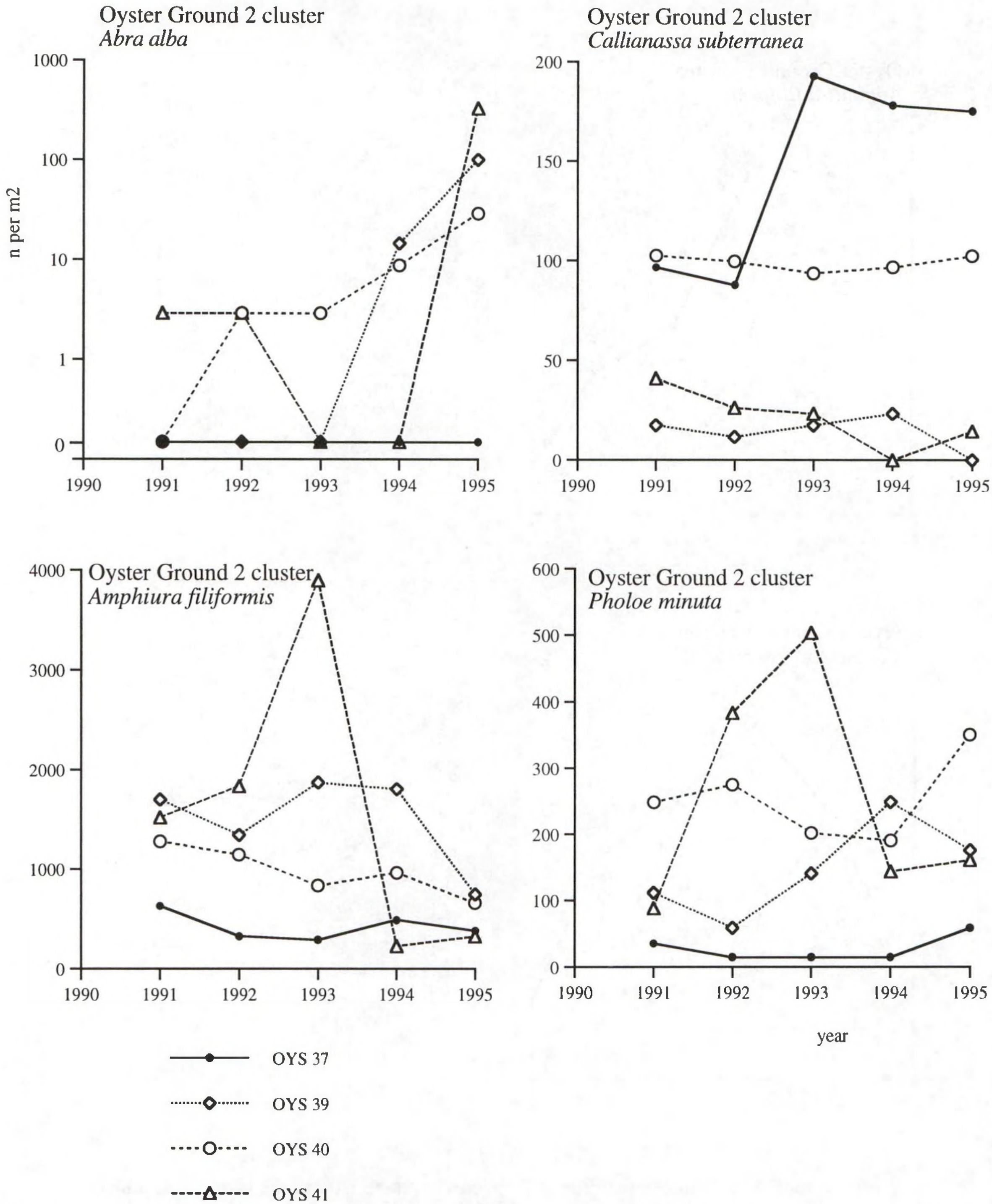



Fig. 18c. Temporal abundance patterns of 4 species characteristic of the Oyster Ground 2 cluster at 4 stations in this cluster between 1991 and 1995.

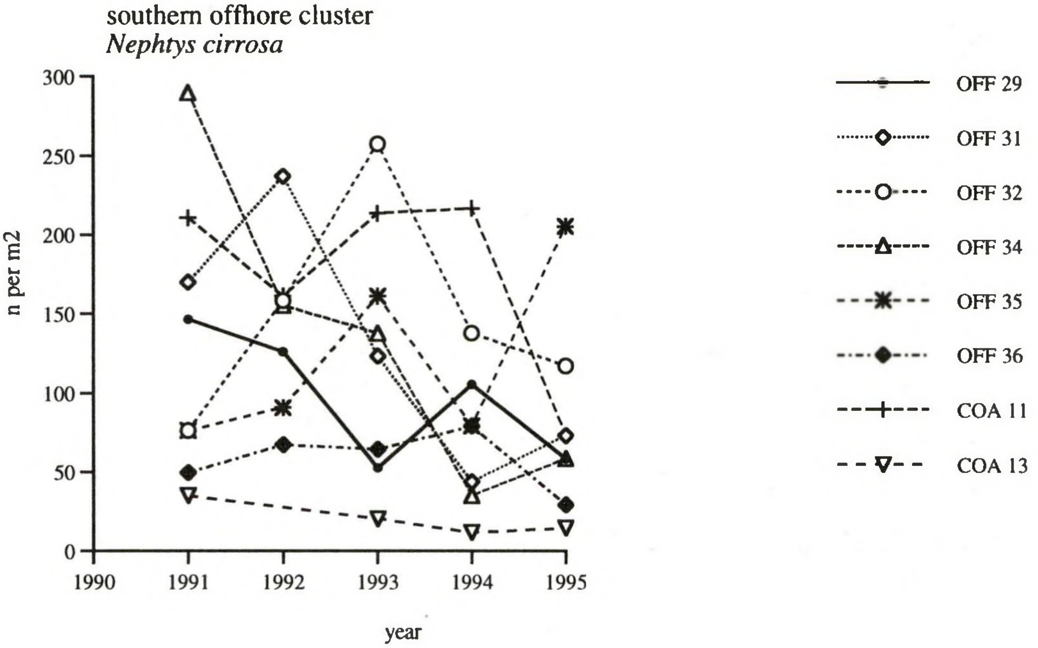



Fig. 18d. Temporal abundance pattern of a species characteristic of the Southern offshore cluster at 8 stations in this cluster between 1991 and 1995.

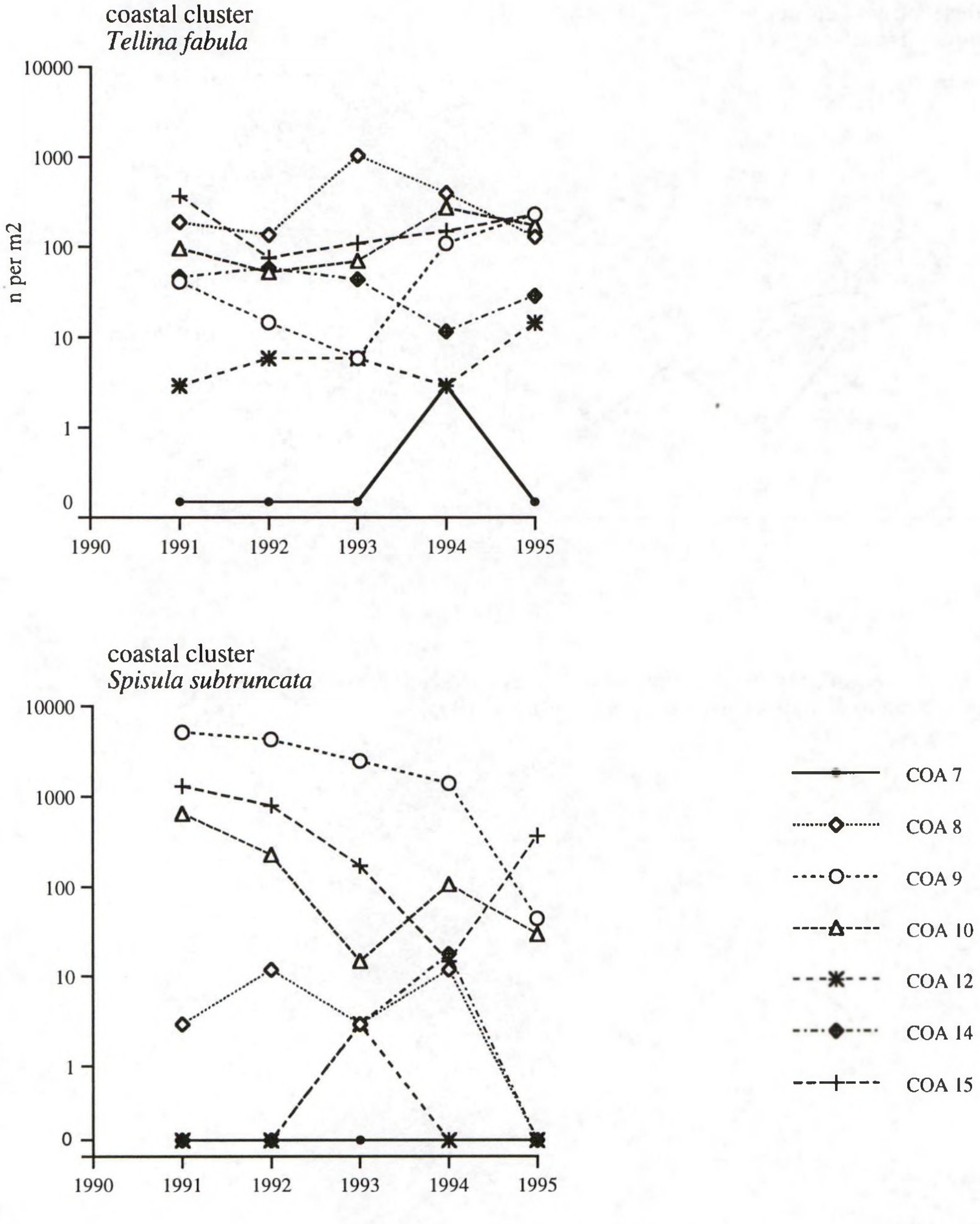



Fig. 18e. Temporal abundance patterns of 2 species characteristic of the coastal cluster at 7 stations in this cluster between 1991 and 1995.

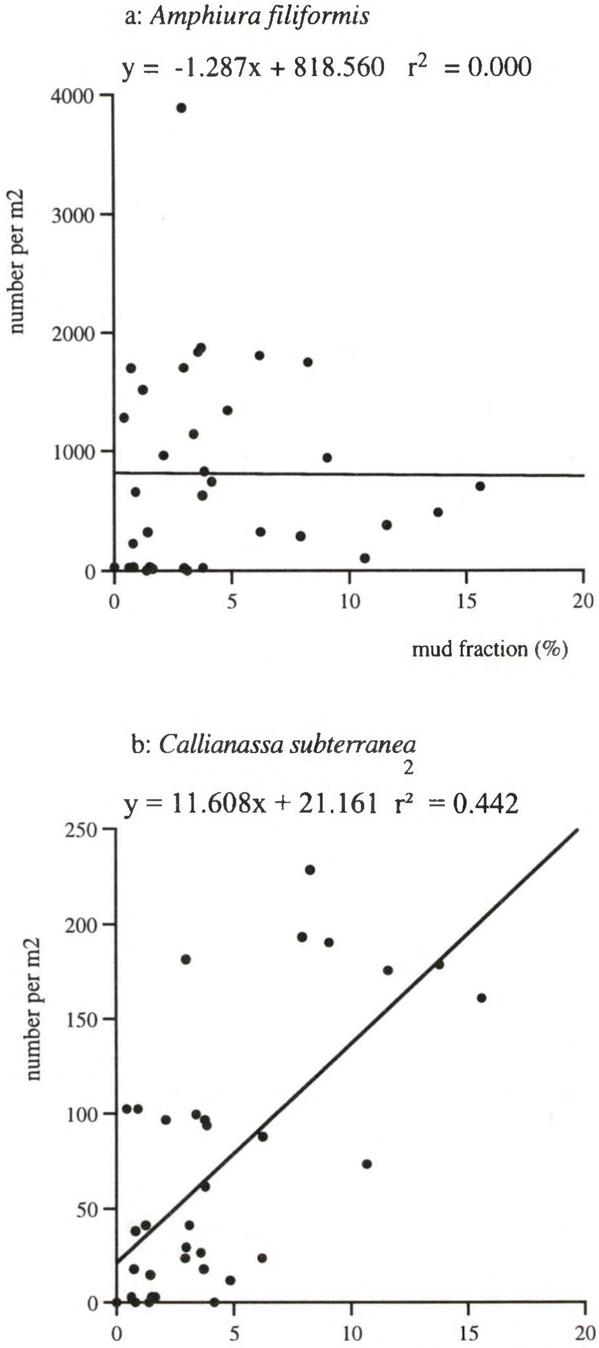



Fig. 19. Relation between mud content (fraction 16 - 63 µm) of sediments at 7 stations in the Oyster Ground (data from 1991-1995) and the abundance of two species characteristic of this area. a: *Amphiura filiformis*; b: *Callianassa subterranea*.

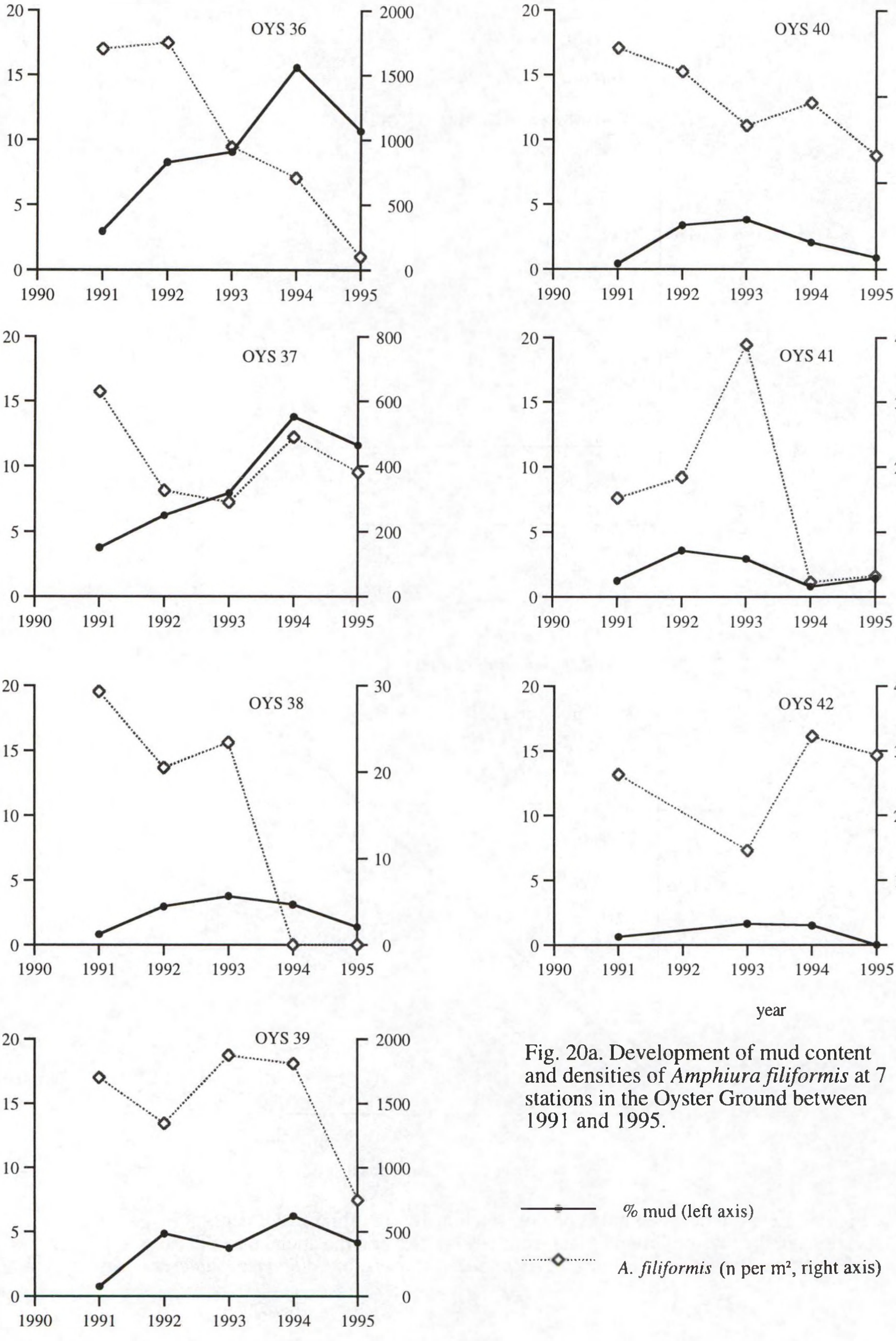
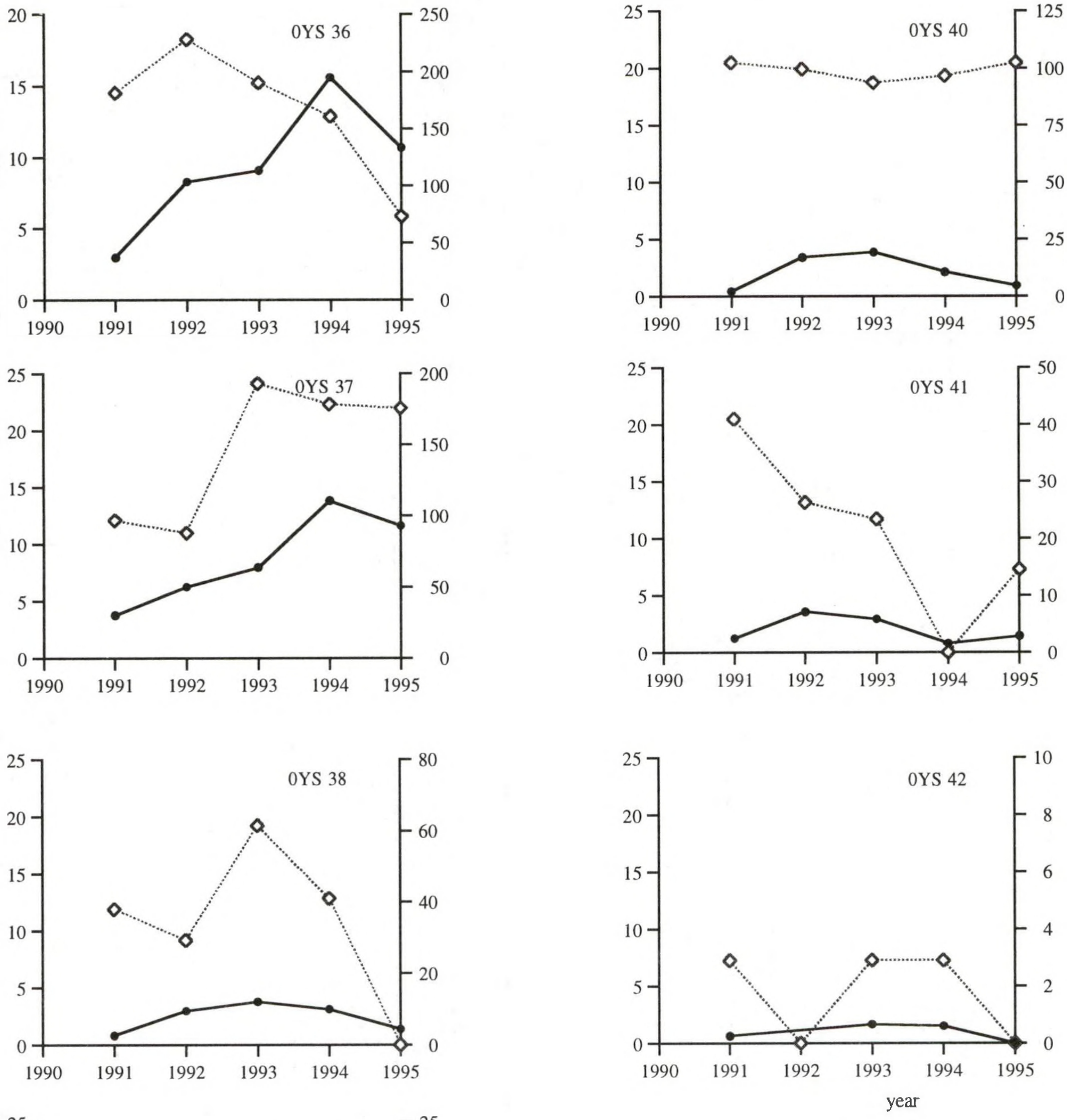



Fig. 20a. Development of mud content and densities of *Amphiura filiformis* at 7 stations in the Oyster Ground between 1991 and 1995.



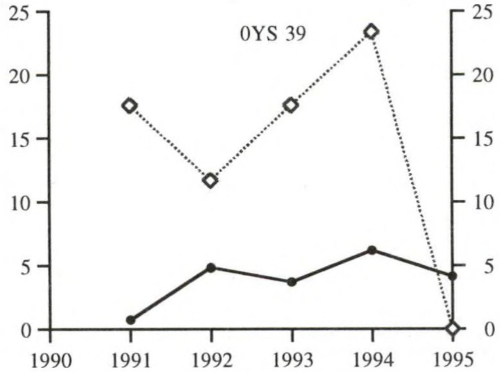




Fig. 20b. Development of mud content and densities of *Callianassa subterranea* at 7 stations in the Oyster Ground between 1991 and 1995.

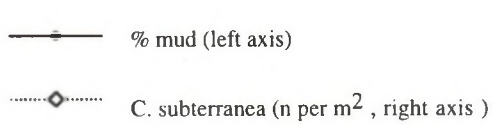


Table1a. Station number, position, date, depth and sediment composition of the survey in spring 1995.

| Station (name) | | | Geographical position | | | | Sediment | |
|---|---|---|---|---|---|---|---|---|
| new | | previously | E | N | Date | Depth (m) | Med. Gr. Size (μm) | Mud (%) |
| DOG | 1 | Dog E5 | 04°03'00" | 55°28'18" | 20/06/95 | 29.8 | 221.7 | 0.0 |
| DOG | 2 | Dog D3 | 03°38'30" | 55°10'00" | 21/06/95 | 37.0 | 185.2 | 0.1 |
| DOG | 3 | ICES 97/SM38 | 03°30'00" | 55°15'00" | 20/06/95 | 28.1 | 206.6 | 0.0 |
| DOG | 4 | TS 235 | 03°09'26" | 55°10'14" | 21/06/95 | 29.7 | 208.5 | 0.0 |
| DOG | 5 | Dog C5 | 03°14'00" | 54°54'42" | 21/06/95 | 34.6 | 176.7 | 0.1 |
| DOG | 6 | Dog C6 | 03°05'00" | 54°57'06" | 21/06/95 | 21.9 | 223.2 | 0.0 |
| DOG | 7 | ICES 87/SM 37 | 03°00'00" | 55°00'00" | 21/06/95 | 23.9 | 194.0 | 0.0 |
| OYS | 1 | MZ 1-3 '91 | 03°25'30" | 54°23'00" | 14/06/95 | 46.6 | 108.0 | 6.0 |
| OYS | 2 | MZ 9-1 '91 | 05°32'30" | 54°11'30" | 13/06/95 | 40.0 | 216.5 | 2.2 |
| OYS | 3 | ICES 88/SM 39 | 04°00'00" | 55°00'00" | 20/06/95 | 48.0 | 111.0 | 4.8 |
| OYS | 4 | Dog B5 | 02°56'00" | 54°33'00" | 14/06/95 | 33.2 | 138.1 | 0.6 |
| OYS | 5 | MZ 8-3 '91 | 04°55'00" | 54°01'10" | 20/06/95 | 41.7 | 123.8 | 8.6 |
| OYS | 6 | Dog E2 | 04°22'48" | 55°18'24" | 20/06/95 | 45.6 | 150.2 | 1.6 |
| OYS | 7 | MZ 2-1 '91 | 04°18'00" | 54°53'00" | 20/06/95 | 50.1 | 87.8 | 14.0 |
| OYS | 8 | MZ 12-4 '91 | 04°54'00" | 53°44'40" | 27/06/95 | 37.0 | 192.9 | 6.7 |
| OYS | 9 | MZ 15-1 '93 | 03°37'50" | 53°45'20" | 27/06/95 | 36.0 | 185.2 | 1.4 |
| OYS | 10 | MZ 1-1 '91 | 03°42'30" | 54°39'00" | 21/06/95 | 44.0 | 112.8 | 3.0 |
| OYS | 11 | MZ 12-1 '91 | 05°10'00" | 53°55'30" | 19/06/95 | 38.1 | 128.8 | 14.8 |
| OYS | 12 | MZ 5-4 '91 | 04°26'00" | 54°10'00" | 21/06/95 | 48.6 | 93.7 | 11.9 |
| OYS | 13 | ICES 78/SM 31 | 03°30'00" | 54°45'00" | 21/06/95 | 43.5 | 111.6 | 3.3 |
| OYS | 14 | MZ 5-3 '91 | 04°44'30" | 54°20'00" | 20/06/95 | 45.6 | 129.9 | 9.9 |
| OYS | 15 | MZ 5-1 '91 | 04°21'20" | 54°28'30" | 21/06/95 | 50.2 | 92.2 | 12.2 |
| OYS | 16 | MZ 3-4 '91 | 05°03'00" | 54°38'30" | 20/06/95 | 45.2 | 153.4 | 5.2 |
| OYS | 17 | MZ 17-2 '93 | 03°25'08" | 54°00'21" | 14/06/95 | 43.4 | 209.6 | 0.9 |
| OYS | 18 | MZ 10-2 '91 | 05°54'00" | 54°11'20" | 13/06/95 | 36.0 | 208.1 | 1.5 |
| OYS | 19 | Dog B2 | 03°19'00" | 54°20'00" | 14/06/95 | 47.8 | 108.7 | 6.2 |
| OYS | 20 | Dog A1 | 02°51'51" | 54°05'00" | 14/06/95 | 51.5 | 206.5 | 1.8 |
| OYS | 21 | TS 50 | 04°46'03" | 53°46'04" | 27/06/95 | 30.0 | 105.9 | 15.0 |
| OYS | 22 | MZ 1-4 '91 | 03°38'30" | 54°18'30" | 14/06/95 | 44.3 | 144.5 | 3.2 |
| OYS | 23 | Dog C3 | 03°22'00" | 54°49'24" | 21/06/95 | 40.9 | 130.5 | 1.8 |
| OYS | 24 | MZ 11-3 '93 | 03°29'46" | 53°30'00" | 27/06/95 | 32.0 | 127.7 | 4.0 |
| OYS | 25 | MZ 2-3 '91 | 04°32'00" | 54°39'00" | 20/06/95 | 48.9 | 116.9 | 9.0 |
| OYS | 26 | MZ 8-5 '91 | 04°47'30" | 53°55'20" | 27/06/95 | 42.0 | 131.8 | 4.4 |
| OYS | 27 | ICES 70/SM 60 | 05°00'00" | 54°30'00" | 20/06/95 | 42.3 | 170.0 | 2.5 |
| OYS | 28 | ICES 42/SM 19 | 03°30'00" | 53°45'00" | 27/06/95 | 35.0 | 200.8 | 0.0 |
| OYS | 29 | ICES 68/SM 32 | 03°00'00" | 54°30'00" | 14/06/95 | 36.4 | 122.7 | 1.8 |
| OYS | 30 | MZ 11-1 '93 | 03°18'21" | 53°31'30" | 27/06/95 | 33.0 | 124.7 | 3.8 |
| OYS | 31 | MZ 19-2 '93 | 04°09'06" | 53°50'42" | 13/06/95 | 41.8 | 136.1 | 2.2 |
| OYS | 32 | MZ 6-5 '91 | 05°05'00" | 54°15'30" | 20/06/95 | 43.3 | 158.1 | 3.8 |
| OYS | 33 | MZ 4-1 '91 | 04°03'00" | 54°16'00" | 21/06/95 | 48.0 | 104.8 | 5.9 |
| OYS | 34 | MZ 16-3 '93 | 04°16'37" | 53°37'40" | 13/06/95 | 21.1 | 116.2 | 6.7 |
| OYS | 35 | MZ 18-3 '93 | 03°52'24" | 53°51'31" | 14/06/95 | 38.5 | 158.1 | 0.8 |
| OYS | 36 | META 2 | 04°30'00" | 53°42'05" | 13/06/95 | 38.1 | 106.6 | 10.7 |
| OYS | 37 | TS 100 | 04°20'27" | 54°09'04" | 21/06/95 | 48.6 | 95.4 | 11.6 |
| OYS | 38 | ICES 34/SM 20 | 03°00'00" | 53°30'00" | 27/06/95 | 32.0 | 140.7 | 1.4 |
| OYS | 39 | ICES 69/SM 30 | 04°00'00" | 54°30'00" | 21/06/95 | 44.9 | 112.8 | 4.2 |
| OYS | 40 | ICES 89/SM 58 | 05°00'00" | 55°00'00" | 20/06/95 | 30.8 | 153.3 | 0.9 |
| OYS | 41 | RHC 4/Dog C4 | 03°17'36" | 54°51'42" | 21/06/95 | 38.4 | 146.7 | 1.4 |
| OYS | 42 | R 70 | 06°12'51" | 54°07'03" | 13/06/95 | 30.0 | 231.1 | 0.0 |

Table1b. Station number, position, date, depth and sediment composition of the survey in spring 1995.

| Station (name) | | | Geographical position | | | | Sediment | |
|---|---|---|---|---|---|---|---|---|
| new | | previously | E | N | Date | Depth (m) | Med. Gr. Size (μm) | Mud (%) |
| OFF | 1 | MZ 18-2 '91 | 05°59'00" | 53°51'30" | 13/06/95 | 30.0 | 212.7 | 0.0 |
| OFF | 2 | MZ VIA-12-25-2 '89 | 06°06'25" | 53°37'29" | 13/06/95 | 24.0 | 208.1 | 0.0 |
| OFF | 3 | MZ VA-12-25-3 '89 | 05°49'37" | 53°36'40" | 13/06/95 | 25.0 | 186.5 | 0.1 |
| OFF | 4 | MZ 16-3 '91 | 04°57'30" | 53°40'00" | 27/06/95 | 31.0 | 196.7 | 0.0 |
| OFF | 5 | MZ 14-1 '91 | 04°22'30" | 53°29'00" | 13/06/95 | 28.1 | 213.5 | 0.0 |
| OFF | 6 | MZ IIA-12-25-2 '89 | 04°26'32" | 53°11'16" | 13/06/95 | 29.6 | 372.7 | 0.0 |
| OFF | 7 | MZ IA-25-40-4 '89 | 04°18'22" | 53°05'59" | 13/06/95 | 34.8 | 224.0 | 0.0 |
| OFF | 8 | MZ C-40-65-4 '88 | 04°00'30" | 53°01'30" | 23/05/95 | 30.0 | 229.3 | 0.0 |
| OFF | 9 | MZ B-25-40-2 '88 | 04°13'50" | 52°49'20" | 23/05/95 | 27.0 | 259.7 | 0.0 |
| OFF | 10 | MZ W-40-65-3 '88 | 03°50'30" | 52°45'40" | 13/06/95 | 29.3 | 310.6 | 0.0 |
| OFF | 11 | MZ 10-4 '92 | 03°31'18" | 53°17'00" | 23/05/95 | 27.0 | 201.5 | 0.0 |
| OFF | 12 | MZ 9-2 '92 | 03°23'30" | 53°03'55" | 23/05/95 | 28.0 | 277.5 | 0.0 |
| OFF | 13 | MZ 9-1 '92 | 03°11'36" | 53°02'58" | 23/05/95 | 29.0 | 276.1 | 0.0 |
| OFF | 14 | MZ 8-2 '92 | 03°17'20" | 52°53'53" | 23/05/95 | 30.0 | / | -9.0 |
| OFF | 15 | MZ 8-5 '92 | 03°17'18" | 52°50'12" | 23/05/95 | 33.0 | 277.5 | 0.0 |
| OFF | 16 | ICES 20/SM 3 | 03°30'00" | 52°45'00" | 23/05/95 | 22.0 | 283.0 | 0.0 |
| OFF | 17 | MZ 6-2 '92 | 03°12'12" | 52°27'43" | 22/05/95 | 28.0 | 313.3 | 0.0 |
| OFF | 18 | MZ 6-1 '92 | 03°11'25" | 52°20'25" | 22/05/95 | 31.0 | 321.4 | 0.0 |
| OFF | 19 | MZ 1-1 '92 | 03°24'42" | 52°15'10" | 28/06/95 | 30.0 | 332.0 | 0.0 |
| OFF | 20 | ICES 15/SM 5 | 03°30'00" | 52°15'00" | 28/06/95 | 29.0 | 382.1 | 0.0 |
| OFF | 21 | ICES 12/SM 10 | 03°00'00" | 52°00'00" | 28/06/95 | 40.0 | 538.1 | 0.0 |
| OFF | 22 | MZ T-25-40-3 '88 | 03°59'15" | 52°16'30" | 24/05/95 | 24.0 | 360.6 | 0.0 |
| OFF | 23 | MZ N-12-25-1 '88 | 04°09'50" | 52°23'08" | 24/05/95 | 23.0 | 318.7 | 0.0 |
| OFF | 24 | / | 03°42'58" | 52°00'00" | 22/05/95 | 24.0 | 431.2 | 0.0 |
| OFF | 25 | / | 03°24'26" | 52°06'12" | 22/05/95 | 32.0 | 354.8 | 0.0 |
| OFF | 26 | / | 03°11'34" | 51°56'07" | 22/05/95 | 30.0 | 486.9 | 0.0 |
| OFF | 27 | / | 03°14'28" | 51°41'40" | 06/06/95 | 27.7 | 386.9 | 0.6 |
| OFF | 28 | / | 02°52'48" | 51°52'40" | 28/06/95 | 33.5 | 460.9 | 0.0 |
| OFF | 29 | R 50 | 06°18'36" | 53°57'14" | 13/06/95 | 29.0 | 396.6 | 0.0 |
| OFF | 30 | TS 30 | 04°56'17" | 53°36'56" | 26/06/95 | 25.0 | 218.7 | 0.0 |
| OFF | 31 | META 1 | 03°55'01" | 52°59'53" | 23/05/95 | 27.0 | 259.4 | 0.0 |
| OFF | 32 | N 30 | 04°02'53" | 52°23'15" | 24/05/95 | 23.0 | 330.1 | 0.0 |
| OFF | 33 | N 50 | 03°47'07" | 52°28'30" | 24/05/95 | 28.0 | 262.3 | 0.0 |
| OFF | 34 | N 70 | 03°31'53" | 52°34'10" | 24/05/95 | 30.0 | 297.0 | 0.0 |
| OFF | 35 | W 30 | 03°06'49" | 51°43'06" | 28/06/95 | 27.0 | 388.0 | 0.0 |
| OFF | 36 | W 70 | 02°40'45" | 51°57'25" | 28/06/95 | 40.0 | 485.2 | 0.0 |
| COA | 1 | MZ VIA-05-12-1 '89 | 05°59'53" | 53°32'34" | 13/06/95 | 19.0 | 230.1 | 0.0 |
| COA | 2 | MZ VA -00-05-5 '89 | 05°37'48" | 53°30'19" | 13/06/95 | 10.0 | 184.2 | 0.0 |
| COA | 3 | MZ W-00-05-5 '88 | 04°31'50" | 52°32'50" | 23/05/95 | 17.0 | 222.6 | 0.0 |
| COA | 4 | MZ C-00-05-5 '88 | 04°40'00" | 52°50'00" | 12/06/95 | 18.0 | 176.5 | 0.2 |
| COA | 5 | MZ IB-00-05-5 '89 | 04°41'20" | 53°03'23" | 12/06/95 | 11.0 | 218.8 | 0.0 |
| COA | 6 | MZ VIB-00-05-3 '89 | 06°11'10" | 53°32'18" | 13/06/95 | 11.0 | 159.4 | 0.2 |
| COA | 7 | R 3 | 06°33'51" | 53°33'58" | 13/06/95 | 10.0 | 172.0 | 0.1 |
| COA | 8 | TS 4 | 05°09'02" | 53°24'54" | 26/06/95 | 12.5 | 216.2 | 0.0 |
| COA | 9 | ICES 21/SM 1 | 04°30'00" | 52°45'00" | 23/05/95 | 20.0 | 234.8 | 0.0 |
| COA | 10 | N 2 | 04°24'20" | 52°15'36" | 23/05/95 | 12.0 | 235.1 | 2.9 |
| COA | 11 | N 10 | 04°18'01" | 52°17'41" | 23/05/95 | 18.0 | 333.3 | 0.0 |
| COA | 12 | VD 1 | 03°23'15" | 51°37'04" | 06/06/95 | 11.7 | 267.1 | 0.0 |
| COA | 13 | VD 2 | 03°36'02" | 51°42'23" | 31/05/95 | 3.3 | 315.7 | 0.0 |
| COA | 14 | VD 3 | 03°48'48" | 51°47'26" | 31/05/95 | 4.6 | 271.4 | 0.9 |
| COA | 15 | VD 4 | 03°55'09" | 51°55'20" | 22/05/95 | 12.8 | 207.8 | 0.0 |

Table 2. Mean values of abiotic and biotic parameters for each of the 5 TWINSPAN clusters distinguished in 1995 (C.V.: coefficients of variation = s.d./mean).

| | TWINSPAN-CLUSTERS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Area** | southern Dogger Bank Northern offshore | | Oyster Ground 1 | | Oyster Ground 2 | | Southern offshore | | Coastal area | |
| No. of stations | 20 | **C.V.** | 17 | **C.V.** | 23 | **C.V.** | 24 | **C.V.** | 16 | **C.V.** |
| Median Grain Size (µm) | 225.5 | 0.20 | 117.8 | 0.17 | 153.5 | 0.25 | 363.5 | 0.21 | 213.4 | 0.15 |
| Perc. Mud (%) | 0.1 | 3.77 | 8.6 | 0.46 | 2.8 | 0.90 | 0.0 | 4.73 | 0.3 | 2.70 |
| Depth (m) | 29.0 | 0.13 | 42.8 | 0.18 | 40.1 | 0.14 | 27.7 | 0.26 | 15.8 | 0.47 |
| **Diversity:** | | | | | | | | | | |
| No. species per core | 30.0 | 0.24 | 27.9 | 0.16 | 30.4 | 0.20 | 18.0 | 0.30 | 21.2 | 0.32 |
| Shannon- Wiener diversity | 2.21 | 0.24 | 2.49 | 0.13 | 2.44 | 0.14 | 1.94 | 0.27 | 1.59 | 0.22 |
| Simpson's dominance | 0.22 | 0.66 | 0.16 | 0.52 | 0.16 | 0.41 | 0.27 | 0.63 | 0.35 | 0.42 |
| **No. individuals (ind./m²):** | | | | | | | | | | |
| Crustaceans | 548.6 | 0.67 | 197.1 | 0.52 | 228.4 | 0.88 | 228.6 | 0.63 | 737.9 | 0.95 |
| Echinoderms | 1329.2 | 1.63 | 969.9 | 0.86 | 970.0 | 0.60 | 331.6 | 1.58 | 63.1 | 2.03 |
| Molluscs | 418.4 | 0.90 | 444.9 | 0.74 | 1151.3 | 1.12 | 64.0 | 1.14 | 442.6 | 0.63 |
| Polychaetes | 3335.6 | 1.43 | 433.8 | 0.32 | 988.5 | 0.53 | 1260.6 | 1.06 | 7015.1 | 0.87 |
| Miscellaneous | 180.0 | 1.19 | 185.9 | 1.10 | 209.9 | 0.72 | 134.7 | 3.54 | 43.0 | 0.96 |
| *TOTAL* | 5811.8 | 0.90 | 2231.5 | 0.45 | 3548.1 | 0.43 | 2019.6 | 0.95 | 8301.6 | 0.78 |
| **Biomass (g AFDW/m²):** | | | | | | | | | | |
| Crustaceans | 0.2 | 0.64 | 6.8 | 0.78 | 3.1 | 0.96 | 0.1 | 0.54 | 0.2 | 0.85 |
| Echinoderms | 5.7 | 1.43 | 5.4 | 0.96 | 10.6 | 0.77 | 2.3 | 3.29 | 7.4 | 1.19 |
| Molluscs | 5.6 | 1.87 | 1.9 | 1.64 | 1.2 | 1.59 | 1.3 | 2.13 | 30.7 | 1.60 |
| Polychaetes | 4.7 | 1.55 | 6.1 | 1.18 | 3.7 | 1.56 | 2.4 | 1.65 | 9.3 | 0.82 |
| Miscellaneous | 2.8 | 2.56 | 2.2 | 1.97 | 0.4 | 2.70 | 0.4 | 3.93 | 0.6 | 1.93 |
| *TOTAL* | 18.9 | 0.85 | 22.4 | 0.48 | 19.1 | 0.56 | 6.4 | 1.41 | 48.2 | 1.01 |

# Appendices

# Appendix-1 Biomonitoring 1995

| | Northern offshore area/ southern Dogger Bank | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dog | Dog | Dog | Dog | Dog | Dog | Dog | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Oys | Oys | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 4 | 5 | 8 | 9 | 11 | 15 | 19 | 23 | 30 | 33 | 38 | 42 | |
| ABRA ALBA | - | - | - | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | ABRA ALBA |
| ABRA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ABRA JUVE |
| ABRA PRISMATICA | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ABRA PRIS |
| ACIDOSTOMA OBESUM | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | ACID OBES |
| ACROCNIDA BRACHIATA | + | + | + | + | + | + | + | - | - | - | + | - | - | - | - | - | + | - | - | - | ACRO BRAC |
| AMPELISCA BREVICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPE BREV |
| AMPELISCA TENUICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPE TENU |
| AMPHIURA FILIFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | AMPH FILI |
| AMPHIPODA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPH IPOD |
| ANAITIDES GROENLANDICA | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | + | + | - | - | - | ANAI GROE |
| ANAITIDES JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI JUVE |
| ANAITIDES LINEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - | - | ANAI LINE |
| ANAITIDES MACULATA | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | + | ANAI MACU |
| ANAITIDES MUCOSA | + | - | + | - | + | + | - | - | - | - | - | - | - | - | - | + | - | + | - | - | ANAI MUCO |
| ANAITIDES SUBULIFERA | - | - | - | - | - | - | + | - | + | - | - | - | - | - | + | - | + | - | - | - | ANAI SUBU |
| ANTHOZOA | - | - | - | + | + | - | - | + | + | - | + | - | - | - | - | + | + | - | - | + | ANTH OZOA |
| AONIDES PAUCIBRANCHIATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AONI PAUC |
| APHERUSA JURI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHE JURI |
| APHRODITA ACULEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHR ACUL |
| APHRODITA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHR JUVE |
| APLACOPHORA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APLA COPH |
| ARCHIANNELIDA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARCH IANN |
| ARCTICA ISLANDICA | - | - | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARCT ISLA |
| ARGISSA HAMATIPES | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - | + | ARGI HAMA |
| ARICIDEA JEFFREYSII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARIC JEFF |
| ARICIDEA MINUTA | - | - | + | - | - | + | + | - | - | - | - | - | + | + | - | - | - | + | - | - | ARIC MINU |
| ASTERIAS JUVENILE | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - | + | - | + | - | + | ASTE JUVE |
| ASTROPECTEN IRREGULARIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ASTR IRRE |
| ATYLUS FALCATUS | + | - | - | + | - | + | + | - | - | - | - | - | - | - | - | - | - | + | - | - | ATYL FALC |
| ATYLUS SWAMMERDAMI | + | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | + | - | - | - | ATYL SWAM |
| BATHYPOREIA ELEGANS | + | + | + | + | + | + | + | - | + | + | + | + | + | + | + | - | + | + | + | + | BATH ELEG |
| BATHYPOREIA GUILLIAMSONIANA | + | - | + | + | + | + | + | + | + | + | + | + | - | - | + | + | - | + | + | + | BATH GUIL |
| BATHYPOREIA JUVENILE | + | - | - | - | - | + | + | - | - | - | - | + | - | - | - | - | - | + | - | + | BATH JUVE |
| BATHYPOREIA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BATH SPEC |
| BATHYPOREIA TENUIPES | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | + | BATH TENU |
| BODOTRIA ARENOSA | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | BODO AREN |
| BRISSOPSIS LYRIFERA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BRIS LYRI |
| CALLIANASSA SUBTERRANEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CALL SUBT |
| CAPITELLA CAPITATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAPI CAPI |
| CAPITELLIDAE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAPI TELL |
| CAPRELLIDAE | - | - | + | - | - | + | - | + | - | + | - | - | - | - | + | + | - | + | - | - | CAPR ELLI |
| CAUDERIELLA SPEC. | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAUD ERIE |
| CHAETOZONE SETOSA | - | - | + | + | + | - | + | + | - | + | + | - | - | - | + | - | - | - | + | + | CHAE SETO |
| CHAETOPTERUS VARIOPEDATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CHAE VARI |
| CHLAMYS VARIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | CHLA VARI |
| CINGULA VITREA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CING VITR |
| CORBULA GIBBA | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | CORB GIBB |
| CORYSTES CASSIVELAUNUS | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | CORY CASS |
| CUCUMARIA ELONGATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CUCU ELON |
| CULTELLUS PELLUCIDUS | - | - | - | - | - | - | - | + | + | + | - | - | - | + | - | - | - | - | + | - | CULT PELL |

| | | Northern offshore area/ southern Dogger Bank | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dog 1 | Dog 2 | Dog 3 | Dog 4 | Dog 5 | Dog 6 | Dog 7 | Off 1 | Off 4 | Off 5 | Off 8 | Off 9 | Off 11 | Off 15 | Off 19 | Off 23 | Off 30 | Off 33 | Oys 38 | Oys 42 | |
| CYLICHNA CYLINDRACEA | + | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | + | CYLI CYLI |
| DIASTYLIS BRADYI | - | - | + | + | - | + | - | + | + | - | + | - | - | - | + | + | - | + | - | + | DIAS BRAD |
| DIPLOCIRRUS GLAUCUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DIPL GLAU |
| DONAX VITTATUS | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | DONA VITT |
| DOSINIA EXOLETA | - | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | DOSI EXOL |
| DOSINIA LUPINUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DOSI LUPI |
| ECHINOCARDIUM CORDATUM | - | + | - | - | - | - | + | + | + | + | - | - | - | + | + | - | + | - | + | - | ECHI CORD |
| ECHINOCARDIUM JUVENILE | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | ECHI JUVE |
| ECHINOCYAMUS PUSILLUS | + | - | - | - | - | - | + | - | - | - | - | - | + | - | - | - | - | + | - | - | ECHI PUSI |
| EDWARDSIA CLAPAREDII | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EDWA CLAP |
| ENSIS DIRECTUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI DIRE |
| ENSIS ENSIS | - | - | - | + | - | + | - | - | - | - | + | - | - | - | - | - | - | - | - | - | ENSI ENSI |
| ENSIS JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI JUVE |
| ENSIS SILIQUA | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SILI |
| ENSIS SPEC. | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SPEC |
| ENTOPROCTA | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENTO PROC |
| ETEONE LONGA | - | - | - | + | + | - | - | + | + | + | - | - | - | - | + | + | - | + | - | + | ETEO LONG |
| EUDORELLOPSIS DEFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EUDO DEFO |
| EUDORELLA TRUNCATULA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EUDO TRUN |
| EULALIA BILINEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EULA BILI |
| EULIMA ALBA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EULI ALBA |
| EUMIDA SANGUINEA | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | + | - | + | - | + | EUMI SANG |
| EURYDICE SPINIGERA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EURY SPIN |
| EXOGONE HEBES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EXOG HEBE |
| EXOGONE NAIDINA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EXOG NAID |
| GAMMARIDAE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GAMM ARID |
| GAMMAROPSIS SPEC. | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | GAMM AROP |
| GARI FERVENSIS | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GARI FERV |
| GATTYANA CIRROSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GATT CIRR |
| GLYCERA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GLYC JUVE |
| GLYCERA LAPIDUM | - | - | - | - | - | - | - | + | - | + | - | - | - | - | - | - | - | + | - | - | GLYC LAPI |
| GLYCERA ROUXI | - | - | + | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | GLYC ROUX |
| GOLFINGIA ELONGATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GOLF ELON |
| GOLFINGIA VULGARIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GOLF VULG |
| GONIADELLA BOBRETZKII | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GONI BOBR |
| GONIADA MACULATA | + | + | - | + | + | + | - | - | - | - | - | - | + | - | - | - | - | - | + | - | GONI MACU |
| GYPTIS CAPENSIS | - | - | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - | - | GYPT CAPE |
| HARMOTHOE JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM JUVE |
| HARMOTHOE LONGISETIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | HARM LONG |
| HARMOTHOE LUNUATA | + | + | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - | + | + | - | HARM LUNU |
| HARMOTHOE NODOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | HARM NODO |
| HARPINIA ANTENNARIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARP ANTE |
| HESIONURA AUGENERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HESI AUGE |
| HETEROMASTUS FILIFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HETE FILI |
| HIPPOMEDON DENTICULATUS | + | + | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | + | HIPP DENT |
| HYDROZOA | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + | - | - | - | - | HYDR OZOA |
| IONE THORACIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | IONE THOR |
| IPHINOE TRISPINOSA | + | - | + | + | + | + | + | - | + | - | - | - | - | - | + | - | + | - | - | - | IPHI TRIS |
| LANICE CONCHILEGA | + | + | + | + | + | + | + | + | + | + | - | + | + | + | + | + | + | + | + | + | LANI CONC |
| LEPIDEPECREUM LONGICORNE | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPI LONG |

| | Northern offshore area/ southern Dogger Bank | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dog | Dog | Dog | Dog | Dog | Dog | Dog | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Oys | Oys | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 4 | 5 | 8 | 9 | 11 | 15 | 19 | 23 | 30 | 33 | 38 | 42 | |
| LEPTON SQUAMOSUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPT SQUA |
| LEUCOTHOE INCISA | - | - | - | - | - | - | - | - | + | - | - | - | + | - | + | - | + | + | - | - | LEUC INCI |
| LEUCOTHOE LILLJEBORGI | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEUC LILL |
| LUCINOMA BOREALIS | + | - | - | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LUCI BORE |
| LUMBRINERIS LATREILLI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LUMB LATR |
| MACOMA BALTHICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACO BALT |
| MACTRA CORALLINA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | + | + | - | - | - | - | MACT CORA |
| MACTRA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACT JUVE |
| MAGELONA ALLENI | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MAGE ALLE |
| MAGELONA PAPILLICORNIS | + | + | + | + | + | + | + | + | + | + | + | + | + | + | - | - | + | + | + | + | MAGE PAPI |
| MEGALUROPUS AGILIS | - | - | - | - | - | - | - | - | + | - | + | + | + | + | + | - | + | - | - | - | MEGA AGIL |
| MICROPROTOPUS MACULATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | MICR MACU |
| MICROPHTHALAMUS SIMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR SIMI |
| MICROPHTHALAMUS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR SPEC |
| MONTACUTA FERRUGINOSA | - | + | - | - | + | - | + | + | + | + | - | - | - | + | + | + | + | - | + | - | MONT FERR |
| MYA TRUNCATA | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | MYA TRUN |
| MYSELLA BIDENTATA | + | + | + | + | + | + | + | + | + | + | - | - | - | - | + | - | + | - | + | - | MYSE BIDE |
| MYSIA UNDATA | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | MYSI UNDA |
| NATICA ALDERI | + | + | + | + | + | + | + | + | + | + | - | + | + | + | - | - | - | + | + | + | NATI ALDE |
| NEMERTINI | + | + | + | + | + | - | + | + | + | + | + | - | - | + | + | + | + | + | + | + | NEME RTIN |
| NEPHTYS CAECA | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - | - | NEPH CAEC |
| NEPHTYS CIRROSA | + | - | + | + | + | + | + | - | - | - | - | + | + | + | - | + | - | + | + | + | NEPH CIRR |
| NEPHTYS HOMBERGII | - | + | - | + | + | + | + | - | - | + | - | - | - | + | - | - | - | - | + | + | NEPH HOMB |
| NEPHTYS JUVENILE | - | - | - | - | - | + | - | + | + | + | - | + | - | - | + | - | - | + | + | - | NEPH JUVE |
| NEPHTYS LONGOSETOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NEPH LONG |
| NEREIS LONGISSIMA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NERE LONG |
| NOTOMASTUS LATERICEUS | - | - | - | + | - | - | + | - | - | + | - | - | - | - | - | - | + | - | - | - | NOTO LATE |
| NUCULA NUCLEUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NUCU NUCL |
| NUCULA TENIUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NUCU TENU |
| NUCULA TURGIDA | - | - | - | - | - | - | - | + | + | - | - | - | + | - | - | - | - | - | + | - | NUCU TURG |
| OLIGOCHAETA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OLIG OCHA |
| OPHELINA ACUMINATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHE ACUM |
| OPHELIA LIMACINA | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | OPHE LIMA |
| OPHIURA ALBIDA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | OPHI ALBI |
| OPHIODROMUS FLEXUOSUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI FLEX |
| OPHIURIDAE JUVENILE | + | + | + | + | + | + | + | + | + | - | - | + | - | + | + | - | + | + | - | + | OPHI JUVE |
| OPHIURA TEXTURATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI TEXT |
| ORCHOMENE HUMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ORCH HUMI |
| OWENIA FUSIFORMIS | - | - | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | OWEN FUSI |
| PARAONIS FULGENS | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PARA FULG |
| PARAONIS GRACILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PARA GRAC |
| PECTINARIA AURICOMA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PECT AURI |
| PECTINARIA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PECT JUVE |
| PECTINARIA KORENI | - | - | + | + | - | - | - | + | - | + | - | - | - | - | - | + | + | + | + | - | PECT KORE |
| PERIOCULODES LONGIMANUS | + | - | - | - | + | - | + | - | + | - | - | + | - | - | - | - | - | + | + | - | PERI LONG |
| PHOLOE MINUTA | + | + | + | + | + | - | - | + | - | + | - | - | - | - | - | - | - | - | + | - | PHOL MINU |
| PHORONIDA | + | + | + | + | + | + | + | - | - | + | - | - | - | - | - | - | - | - | - | - | PHOR ONID |
| PISIONE REMOTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PISI REMO |
| PLATHYHELMITHES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PLAT HYHE |
| POECILOCHAETUS SERPENS | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | + | + | - | POEC SERP |

# Appendix-1 Biomonitoring 1995

| | Northern offshore area/ southern Dogger Bank | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dog | Dog | Dog | Dog | Dog | Dog | Dog | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Oys | Oys | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 4 | 5 | 8 | 9 | 11 | 15 | 19 | 23 | 30 | 33 | 38 | 42 | |
| POLYDORA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | POLY DORA |
| POLYNOE KINBERGI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | POLY KINB |
| PONTOCRATES ALTAMARINUS | - | - | - | - | - | - | + | - | - | - | + | - | + | + | + | - | + | - | - | + | PONT ALTA |
| PONTOCRATES ARENARIUS | - | - | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PONT AREN |
| PSEUDOCUMA LONGICORNIS | - | + | + | - | - | + | + | - | + | + | + | + | + | + | - | - | - | - | + | + | PSEU LONG |
| PSEUDOCUMA SIMILIS | - | - | - | - | - | - | - | - | - | + | - | + | - | - | + | - | + | + | - | + | PSEU SIMI |
| SCALIBREGMA INFLATUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SCAL INFL |
| SCOLOPLOS ARMIGER | + | + | + | + | - | - | - | - | + | + | - | + | - | + | - | - | - | + | + | - | SCOL ARMI |
| SCOLELEPIS BONNERI | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - | - | - | - | SCOL BONN |
| SCOLELEPIS SQUAMATA | - | - | + | - | - | - | + | - | - | - | - | - | - | - | + | - | - | - | - | + | SCOL SQUA |
| SIGALION JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | SIGA JUVE |
| SIGALION MATHILDAE | - | + | - | + | + | + | + | + | + | + | - | - | - | - | - | - | + | - | + | - | SIGA MATH |
| SIPHONOECETES KROYERANUS | - | - | + | - | - | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | SIPH KROY |
| SPHAERODORUM FLAVUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPHA FLAV |
| SPHAEROSYLLIS HYTRIX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPHA HYTR |
| SPIOPHANES BOMBYX | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | SPIO BOMB |
| SPIO FILICORNIS | + | - | + | + | - | - | + | + | - | - | - | + | - | + | + | - | - | - | - | - | SPIO FILI |
| SPIOPHANES KROYERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIO KROE |
| SPISULA ELLIPTICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIS ELLI |
| SPISULA SUBTRUNCATA | - | - | + | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - | - | SPIS SUBT |
| STHENELAIS BOA | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | STHE BOA |
| STHENELAIS LIMICOLA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | STHE LIMI |
| STREPTOSYLLIS WEBSTERI | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | + | - | - | - | - | STRE WEBS |
| SYNCHELIDIUM MACULATUM | - | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - | SYNC MACU |
| SYNELMIS KLATTI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SYNE KLAT |
| TELLINA FABULA | - | + | + | + | + | - | + | + | + | + | + | + | + | + | - | - | + | - | + | + | TELL FABU |
| TELLINA PYGMEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TELL PYGM |
| TELLINA TENIUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TELL TENU |
| THRACIA CONVEXA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | THRA CONV |
| THRACIA PHASEOLINA | - | - | + | + | - | + | + | + | + | - | - | - | - | - | - | - | - | - | + | + | THRA PHAS |
| THYASIRA FLEXUOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | THYA FLEX |
| TORNUS SUBCARINATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TORN SUBC |
| TRAVISIA FORBESI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | TRAV FORB |
| UPOGEBIA DELTAURA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UPOG DELT |
| UROTHOE BREVICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + | - | - | - | - | UROT BREV |
| UROTHOE ELEGANS | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UROT ELEG |
| UROTHOE POSEIDONIS | + | + | + | + | - | + | + | - | - | + | + | + | - | + | + | + | + | - | - | + | UROT POSE |
| VENUS STRIATULA | - | - | - | + | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | VENU STRI |
| WESTWOODILLA CAECULA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | WEST CAEC |
| No. Species | 31 | 24 | 35 | 42 | 33 | 38 | 40 | 35 | 35 | 31 | 17 | 20 | 19 | 23 | 27 | 24 | 30 | 35 | 29 | 32 | |

# Appendix-1 Biomonitoring 1995

| | Oysterground 1 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | |
| | 1 | 5 | 7 | 11 | 12 | 14 | 15 | 16 | 19 | 21 | 25 | 26 | 31 | 32 | 33 | 34 | 36 | |
| ABRA ALBA | + | + | + | + | - | - | - | - | + | + | + | + | + | - | - | + | + | ABRA ALBA |
| ABRA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ABRA JUVE |
| ABRA PRISMATICA | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | ABRA PRIS |
| ACIDOSTOMA OBESUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ACID OBES |
| ACROCNIDA BRACHIATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ACRO BRAC |
| AMPELISCA BREVICORNIS | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | AMPE BREV |
| AMPELISCA TENUICORNIS | - | - | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | AMPE TENU |
| AMPHIURA FILIFORMIS | + | + | + | + | + | + | + | + | + | + | - | + | + | + | + | - | + | AMPH FILI |
| AMPHIPODA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPH IPOD |
| ANAITIDES GROENLANDICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI GROE |
| ANAITIDES JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI JUVE |
| ANAITIDES LINEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI LINE |
| ANAITIDES MACULATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI MACU |
| ANAITIDES MUCOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | ANAI MUCO |
| ANAITIDES SUBULIFERA | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | ANAI SUBU |
| ANTHOZOA | - | - | + | + | - | - | + | + | - | + | - | - | - | - | - | - | - | ANTH OZOA |
| AONIDES PAUCIBRANCHIATA | - | - | - | - | + | - | - | - | - | - | - | + | - | - | - | - | - | AONI PAUC |
| APHERUSA JURI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHE JURI |
| APHRODITA ACULEATA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHR ACUL |
| APHRODITA JUVENILE | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | APHR JUVE |
| APLACOPHORA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APLA COPH |
| ARCHIANNELIDA | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | ARCH IANN |
| ARCTICA ISLANDICA | - | + | + | - | - | - | + | - | - | - | + | - | - | - | + | - | - | ARCT ISLA |
| ARGISSA HAMATIPES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARGI HAMA |
| ARICIDEA JEFFREYSII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | ARIC JEFF |
| ARICIDEA MINUTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARIC MINU |
| ASTERIAS JUVENILE | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | ASTE JUVE |
| ASTROPECTEN IRREGULARIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ASTR IRRE |
| ATYLUS FALCATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ATYL FALC |
| ATYLUS SWAMMERDAMI | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | ATYL SWAM |
| BATHYPOREIA ELEGANS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BATH ELEG |
| BATHYPOREIA GUILLIAMSONIANA | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - | BATH GUIL |
| BATHYPOREIA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BATH JUVE |
| BATHYPOREIA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BATH SPEC |
| BATHYPOREIA TENUIPES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BATH TENU |
| BODOTRIA ARENOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BODO AREN |
| BRISSOPSIS LYRIFERA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BRIS LYRI |
| CALLIANASSA SUBTERRANEA | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | CALL SUBT |
| CAPITELLA CAPITATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAPI CAPI |
| CAPITELLIDAE | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | + | CAPI TELL |
| CAPRELLIDAE | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAPR ELLI |
| CAUDERIELLA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | CAUD ERIE |
| CHAETOZONE SETOSA | - | - | + | - | - | + | + | - | - | - | + | - | - | - | - | - | - | CHAE SETO |
| CHAETOPTERUS VARIOPEDATUS | + | - | - | - | + | - | + | - | + | - | + | + | - | - | + | - | + | CHAE VARI |
| CHLAMYS VARIA | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | CHLA VARI |
| CINGULA VITREA | - | + | - | + | + | - | + | - | + | - | + | - | + | + | - | - | - | CING VITR |
| CORBULA GIBBA | - | + | - | + | + | + | - | + | - | - | + | + | - | + | - | - | - | CORB GIBB |
| CORYSTES CASSIVELAUNUS | + | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - | CORY CASS |
| CUCUMARIA ELONGATA | - | - | - | - | - | - | - | + | - | + | + | + | - | - | - | - | + | CUCU ELON |
| CULTELLUS PELLUCIDUS | + | - | - | - | - | - | - | + | + | - | - | - | + | - | - | + | - | CULT PELL |

# Appendix-1 Biomonitoring 1995

| | Oysterground 1 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | |
| | 1 | 5 | 7 | 11 | 12 | 14 | 15 | 16 | 19 | 21 | 25 | 26 | 31 | 32 | 33 | 34 | 36 | |
| CYLICHNA CYLINDRACEA | + | + | + | - | + | + | + | - | + | + | - | - | - | + | + | - | - | CYLI CYLI |
| DIASTYLIS BRADYI | - | - | - | - | - | - | - | + | - | + | - | - | + | - | - | + | - | DIAS BRAD |
| DIPLOCIRRUS GLAUCUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DIPL GLAU |
| DONAX VITTATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DONA VITT |
| DOSINIA EXOLETA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DOSI EXOL |
| DOSINIA LUPINUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DOSI LUPI |
| ECHINOCARDIUM CORDATUM | + | + | - | - | + | - | + | + | + | - | - | + | - | + | - | - | - | ECHI CORD |
| ECHINOCARDIUM JUVENILE | + | + | + | + | + | + | + | + | - | + | + | + | + | + | + | + | - | ECHI JUVE |
| ECHINOCYAMUS PUSILLUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ECHI PUSI |
| EDWARDSIA CLAPAREDII | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | EDWA CLAP |
| ENSIS DIRECTUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI DIRE |
| ENSIS ENSIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI ENSI |
| ENSIS JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI JUVE |
| ENSIS SILIQUA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SILI |
| ENSIS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SPEC |
| ENTOPROCTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENTO PROC |
| ETEONE LONGA | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | ETEO LONG |
| EUDORELLOPSIS DEFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EUDO DEFO |
| EUDORELLA TRUNCATULA | - | - | - | - | - | - | - | + | - | + | + | - | + | - | - | - | + | EUDO TRUN |
| EULALIA BILINEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EULA BILI |
| EULIMA ALBA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EULI ALBA |
| EUMIDA SANGUINEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EUMI SANG |
| EURYDICE SPINIGERA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EURY SPIN |
| EXOGONE HEBES | + | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | EXOG HEBE |
| EXOGONE NAIDINA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EXOG NAID |
| GAMMARIDAE | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GAMM ARID |
| GAMMAROPSIS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GAMM AROP |
| GARI FERVENSIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GARI FERV |
| GATTYANA CIRROSA | + | - | - | - | + | - | + | - | + | - | + | - | - | - | + | - | + | GATT CIRR |
| GLYCERA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GLYC JUVE |
| GLYCERA LAPIDUM | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - | - | - | GLYC LAPI |
| GLYCERA ROUXI | - | - | + | + | + | + | + | + | + | + | + | - | - | + | - | + | - | GLYC ROUX |
| GOLFINGIA ELONGATA | - | - | - | - | + | - | - | - | + | - | + | - | - | - | - | - | - | GOLF ELON |
| GOLFINGIA VULGARIS | - | - | - | - | + | - | + | - | - | + | - | + | - | - | + | - | + | GOLF VULG |
| GONIADELLA BOBRETZKII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GONI BOBR |
| GONIADA MACULATA | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | GONI MACU |
| GYPTIS CAPENSIS | - | - | - | + | + | - | - | - | - | + | - | - | - | + | + | + | + | GYPT CAPE |
| HARMOTHOE JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM JUVE |
| HARMOTHOE LONGISETIS | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | + | HARM LONG |
| HARMOTHOE LUNUATA | - | + | + | - | - | - | - | + | - | + | - | + | - | - | - | - | - | HARM LUNU |
| HARMOTHOE NODOSA | - | - | + | - | - | - | - | - | + | - | - | - | - | - | - | + | - | HARM NODO |
| HARPINIA ANTENNARIA | + | + | + | - | + | + | - | + | + | + | + | - | + | + | + | + | + | HARP ANTE |
| HESIONURA AUGENERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HESI AUGE |
| HETEROMASTUS FILIFORMIS | - | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | HETE FILI |
| HIPPOMEDON DENTICULATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HIPP DENT |
| HYDROZOA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HYDR OZOA |
| IONE THORACIA | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - | + | - | IONE THOR |
| IPHINOE TRISPINOSA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | IPHI TRIS |
| LANICE CONCHILEGA | - | - | - | - | - | - | - | + | - | + | - | + | - | - | - | - | - | LANI CONC |
| LEPIDEPECREUM LONGICORNE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPI LONG |

| | Oysterground 1 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | |
| | 1 | 5 | 7 | 11 | 12 | 14 | 15 | 16 | 19 | 21 | 25 | 26 | 31 | 32 | 33 | 34 | 36 | |
| LEPTON SQUAMOSUM | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPT SQUA |
| LEUCOTHOE INCISA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEUC INCI |
| LEUCOTHOE LILLJEBORGI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEUC LILL |
| LUCINOMA BOREALIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LUCI BORE |
| LUMBRINERIS LATREILLI | - | + | - | + | + | + | - | - | - | + | + | + | + | + | - | + | + | LUMB LATR |
| MACOMA BALTHICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACO BALT |
| MACTRA CORALLINA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACT CORA |
| MACTRA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACT JUVE |
| MAGELONA ALLENI | - | - | - | - | - | - | - | + | - | - | - | - | - | - | + | - | - | MAGE ALLE |
| MAGELONA PAPILLICORNIS | + | - | - | - | - | - | - | + | - | - | + | - | + | + | - | - | - | MAGE PAPI |
| MEGALUROPUS AGILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MEGA AGIL |
| MICROPROTOPUS MACULATUS | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | MICR MACU |
| MICROPHTHALAMUS SIMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR SIMI |
| MICROPHTHALAMUS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR SPEC |
| MONTACUTA FERRUGINOSA | - | - | - | - | - | - | - | - | + | - | - | + | - | + | - | - | - | MONT FERR |
| MYA TRUNCATA | - | - | + | - | - | - | - | - | - | + | - | - | - | - | - | - | - | MYA TRUN |
| MYSELLA BIDENTATA | + | + | + | - | + | + | + | + | + | + | + | + | + | + | + | + | + | MYSE BIDE |
| MYSIA UNDATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MYSI UNDA |
| NATICA ALDERI | - | + | - | + | - | - | - | - | + | - | + | - | - | + | - | + | - | NATI ALDE |
| NEMERTINI | + | + | + | + | + | + | - | - | + | + | - | + | + | + | + | + | - | NEME RTIN |
| NEPHTYS CAECA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NEPH CAEC |
| NEPHTYS CIRROSA | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | NEPH CIRR |
| NEPHTYS HOMBERGII | + | + | + | + | - | + | + | - | + | + | - | + | + | + | + | + | + | NEPH HOMB |
| NEPHTYS JUVENILE | + | + | + | - | - | - | - | + | + | - | - | - | - | - | - | + | - | NEPH JUVE |
| NEPHTYS LONGOSETOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NEPH LONG |
| NEREIS LONGISSIMA | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | NERE LONG |
| NOTOMASTUS LATERICEUS | + | + | + | - | - | - | - | - | + | - | + | - | - | + | - | - | + | NOTO LATE |
| NUCULA NUCLEUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NUCU NUCL |
| NUCULA TENIUS | - | - | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | NUCU TENU |
| NUCULA TURGIDA | - | - | - | + | - | + | - | + | - | + | - | - | - | - | - | + | - | NUCU TURG |
| OLIGOCHAETA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OLIG OCHA |
| OPHELINA ACUMINATA | - | + | - | + | + | - | - | - | - | - | - | - | - | - | - | - | + | OPHE ACUM |
| OPHELIA LIMACINA | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | + | - | OPHE LIMA |
| OPHIURA ALBIDA | - | + | - | + | - | - | - | - | - | + | - | - | - | - | - | - | - | OPHI ALBI |
| OPHIODROMUS FLEXUOSUS | - | - | - | - | + | - | + | - | + | + | - | - | + | - | + | + | - | OPHI FLEX |
| OPHIURIDAE JUVENILE | - | + | + | + | + | + | + | + | + | + | + | - | + | + | - | + | + | OPHI JUVE |
| OPHIURA TEXTURATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI TEXT |
| ORCHOMENE HUMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ORCH HUMI |
| OWENIA FUSIFORMIS | - | + | - | - | - | - | - | + | - | - | - | + | - | - | - | + | - | OWEN FUSI |
| PARAONIS FULGENS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PARA FULG |
| PARAONIS GRACILIS | - | + | + | - | - | - | - | - | - | - | + | - | - | - | + | - | - | PARA GRAC |
| PECTINARIA AURICOMA | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | PECT AURI |
| PECTINARIA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | PECT JUVE |
| PECTINARIA KORENI | + | + | + | + | + | + | + | + | + | + | - | - | + | + | + | + | - | PECT KORE |
| PERIOCULODES LONGIMANUS | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + | - | - | PERI LONG |
| PHOLOE MINUTA | + | - | + | + | - | + | - | + | + | + | - | - | - | + | + | + | + | PHOL MINU |
| PHORONIDA | + | + | + | + | - | + | - | + | + | + | - | - | + | + | + | + | + | PHOR ONID |
| PISIONE REMOTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PISI REMO |
| PLATHYHELMITHES | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | PLAT HYHE |
| POECILOCHAETUS SERPENS | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - | POEC SERP |

| | Oysterground 1 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | |
| | 1 | 5 | 7 | 11 | 12 | 14 | 15 | 16 | 19 | 21 | 25 | 26 | 31 | 32 | 33 | 34 | 36 | |
| POLYDORA SPEC. | - | + | - | - | - | - | - | + | + | - | - | - | - | - | - | + | + | POLY DORA |
| POLYNOE KINBERGI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | POLY KINB |
| PONTOCRATES ALTAMARINUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PONT ALTA |
| PONTOCRATES ARENARIUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PONT AREN |
| PSEUDOCUMA LONGICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PSEU LONG |
| PSEUDOCUMA SIMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PSEU SIMI |
| SCALIBREGMA INFLATUM | - | - | - | - | - | - | - | - | - | - | - | + | - | + | - | - | - | SCAL INFL |
| SCOLOPLOS ARMIGER | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | SCOL ARMI |
| SCOLELEPIS BONNERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SCOL BONN |
| SCOLELEPIS SQUAMATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SCOL SQUA |
| SIGALION JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIGA JUVE |
| SIGALION MATHILDAE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIGA MATH |
| SIPHONOECETES KROYERANUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIPH KROY |
| SPHAERODORUM FLAVUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPHA FLAV |
| SPHAEROSYLLIS HYTRIX | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPHA HYTR |
| SPIOPHANES BOMBYX | + | - | + | + | - | - | + | + | + | + | - | - | - | + | - | + | - | SPIO BOMB |
| SPIO FILICORNIS | + | - | - | - | - | + | - | + | - | - | - | - | + | + | + | - | - | SPIO FILI |
| SPIOPHANES KROYERI | - | + | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - | SPIO KROE |
| SPISULA ELLIPTICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIS ELLI |
| SPISULA SUBTRUNCATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIS SUBT |
| STHENELAIS BOA | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | STHE BOA |
| STHENELAIS LIMICOLA | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + | - | STHE LIMI |
| STREPTOSYLLIS WEBSTERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | STRE WEBS |
| SYNCHELIDIUM MACULATUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SYNC MACU |
| SYNELMIS KLATTI | + | - | + | - | + | + | + | + | + | - | + | - | + | + | + | - | - | SYNE KLAT |
| TELLINA FABULA | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | TELL FABU |
| TELLINA PYGMEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TELL PYGM |
| TELLINA TENIUS | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | TELL TENU |
| THRACIA CONVEXA | + | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | THRA CONV |
| THRACIA PHASEOLINA | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | THRA PHAS |
| THYASIRA FLEXUOSA | + | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | THYA FLEX |
| TORNUS SUBCARINATUS | - | - | - | + | - | - | - | - | - | + | - | - | - | - | - | - | - | TORN SUBC |
| TRAVISIA FORBESI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TRAV FORB |
| UPOGEBIA DELTAURA | - | + | - | - | + | - | - | + | + | - | + | - | - | - | + | + | + | UPOG DELT |
| UROTHOE BREVICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UROT BREV |
| UROTHOE ELEGANS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UROT ELEG |
| UROTHOE POSEIDONIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UROT POSE |
| VENUS STRIATULA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | VENU STRI |
| WESTWOODILLA CAECULA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | WEST CAEC |
| No. Species | 27 | 31 | 33 | 26 | 27 | 22 | 22 | 34 | 33 | 36 | 29 | 23 | 23 | 29 | 27 | 30 | 23 | |

Appendix-1 Biomonitoring 1995

| | Oyster Ground 2 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | |
| | 2 | 3 | 4 | 6 | 8 | 9 | 10 | 13 | 17 | 18 | 20 | 22 | 23 | 24 | # | 28 | 29 | 30 | 35 | 37 | 39 | 40 | 41 | |
| ABRA ALBA | + | + | + | + | + | + | + | + | + | - | + | + | + | - | + | + | + | - | + | - | + | + | + | ABRA ALBA |
| ABRA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | ABRA JUVE |
| ABRA PRISMATICA | - | - | - | + | + | - | + | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + | ABRA PRIS |
| ACIDOSTOMA OBESUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ACID OBES |
| ACROCNIDA BRACHIATA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | ACRO BRAC |
| AMPELISCA BREVICORNIS | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPE BREV |
| AMPELISCA TENUICORNIS | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPE TENU |
| AMPHIURA FILIFORMIS | + | + | + | + | - | + | + | + | + | + | + | + | + | - | + | - | + | - | + | + | + | + | + | AMPH FILI |
| AMPHIPODA SPEC. | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPH IPOD |
| ANAITIDES GROENLANDICA | - | - | - | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | + | ANAI GROE |
| ANAITIDES JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | ANAI JUVE |
| ANAITIDES LINEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI LINE |
| ANAITIDES MACULATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI MACU |
| ANAITIDES MUCOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI MUCO |
| ANAITIDES SUBULIFERA | - | - | - | - | - | - | + | - | - | - | - | - | + | - | - | - | + | - | - | - | - | - | - | ANAI SUBU |
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| AONIDES PAUCIBRANCHIATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AONI PAUC |
| APHERUSA JURI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | APHE JURI |
| APHRODITA ACULEATA | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHR ACUL |
| APHRODITA JUVENILE | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - | - | APHR JUVE |
| APLACOPHORA | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APLA COPH |
| ARCHIANNELIDA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARCH IANN |
| ARCTICA ISLANDICA | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | + | - | ARCT ISLA |
| ARGISSA HAMATIPES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARGI HAMA |
| ARICIDEA JEFFREYSII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | ARIC JEFF |
| ARICIDEA MINUTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | ARIC MINU |
| ASTERIAS JUVENILE | + | + | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | ASTE JUVE |
| ASTROPECTEN IRREGULARIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + | - | - | ASTR IRRE |
| ATYLUS FALCATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ATYL FALC |
| ATYLUS SWAMMERDAMI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ATYL SWAM |
| BATHYPOREIA ELEGANS | - | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | + | - | BATH ELEG |
| BATHYPOREIA GUILLIAMSONIANA | - | - | - | + | - | + | - | + | + | - | - | + | + | - | - | + | + | + | + | - | + | - | - | BATH GUIL |
| BATHYPOREIA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | BATH JUVE |
| BATHYPOREIA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BATH SPEC |
| BATHYPOREIA TENUIPES | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | BATH TENU |
| BODOTRIA ARENOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BODO AREN |
| BRISSOPSIS LYRIFERA | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | BRIS LYRI |
| CALLIANASSA SUBTERRANEA | + | - | - | + | + | + | + | + | + | - | + | + | + | + | + | + | - | + | + | + | - | + | + | CALL SUBT |
| CAPITELLA CAPITATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAPI CAPI |
| CAPITELLIDAE | - | - | - | + | - | - | - | - | - | - | - | + | - | - | - | - | - | + | - | + | - | - | - | CAPI TELL |
| CAPRELLIDAE | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAPR ELLI |
| CAUDERIELLA SPEC. | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAUD ERIE |
| CHAETOZONE SETOSA | + | + | + | + | - | - | - | - | + | - | + | + | - | + | + | + | + | + | + | + | - | + | - | CHAE SETO |
| CHAETOPTERUS VARIOPEDATUS | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - | - | - | CHAE VARI |
| CHLAMYS VARIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CHLA VARI |
| CINGULA VITREA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | CING VITR |
| CORBULA GIBBA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + | - | - | + | - | CORB GIBB |
| CORYSTES CASSIVELAUNUS | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | + | - | - | + | - | - | - | CORY CASS |
| CUCUMARIA ELONGATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CUCU ELON |
| CULTELLUS PELLUCIDUS | - | - | + | - | - | + | + | + | + | - | + | + | + | + | + | + | + | + | + | - | + | - | + | CULT PELL |

| | Oyster Ground 2 | | | | | | | | | | | | | | | | | | | | | | | |
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| | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | |
| | 2 | 3 | 4 | 6 | 8 | 9 | 10 | 13 | 17 | 18 | 20 | 22 | 23 | 24 | # | 28 | 29 | 30 | 35 | 37 | 39 | 40 | 41 | |
| CYLICHNA CYLINDRACEA | - | - | + | + | - | - | + | + | - | - | - | - | + | - | - | - | + | - | - | + | + | - | + | CYLI CYLI |
| DIASTYLIS BRADYI | - | + | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | DIAS BRAD |
| DIPLOCIRRUS GLAUCUS | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | + | - | - | - | - | - | + | DIPL GLAU |
| DONAX VITTATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DONA VITT |
| DOSINIA EXOLETA | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | DOSI EXOL |
| DOSINIA LUPINUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | DOSI LUPI |
| ECHINOCARDIUM CORDATUM | - | + | + | - | + | - | - | + | + | - | - | - | + | - | + | + | - | + | + | - | + | + | - | ECHI CORD |
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| ECHINOCYAMUS PUSILLUS | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | ECHI PUSI |
| EDWARDSIA CLAPAREDII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EDWA CLAP |
| ENSIS DIRECTUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI DIRE |
| ENSIS ENSIS | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI ENSI |
| ENSIS JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI JUVE |
| ENSIS SILIQUA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SILI |
| ENSIS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SPEC |
| ENTOPROCTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENTO PROC |
| ETEONE LONGA | - | - | + | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - | + | - | - | - | - | ETEO LONG |
| EUDORELLOPSIS DEFORMIS | - | - | - | + | - | - | - | + | + | - | - | + | + | - | - | - | - | - | - | - | - | + | - | EUDO DEFO |
| EUDORELLA TRUNCATULA | - | - | - | - | - | + | + | - | - | + | + | + | - | - | + | - | + | - | + | - | - | - | - | EUDO TRUN |
| EULALIA BILINEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EULA BILI |
| EULIMA ALBA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | + | - | EULI ALBA |
| EUMIDA SANGUINEA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EUMI SANG |
| EURYDICE SPINIGERA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EURY SPIN |
| EXOGONE HEBES | - | - | - | - | - | - | - | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - | EXOG HEBE |
| EXOGONE NAIDINA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EXOG NAID |
| GAMMARIDAE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GAMM ARID |
| GAMMAROPSIS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GAMM AROP |
| GARI FERVENSIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GARI FERV |
| GATTYANA CIRROSA | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | GATT CIRR |
| GLYCERA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | GLYC JUVE |
| GLYCERA LAPIDUM | + | + | + | - | - | - | - | - | - | + | + | - | - | - | + | + | - | - | - | - | - | - | - | GLYC LAPI |
| GLYCERA ROUXI | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | + | - | + | - | GLYC ROUX |
| GOLFINGIA ELONGATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | GOLF ELON |
| GOLFINGIA VULGARIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | GOLF VULG |
| GONIADELLA BOBRETZKII | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | GONI BOBR |
| GONIADA MACULATA | - | - | - | - | - | - | + | - | - | - | - | - | + | - | - | - | + | + | - | - | - | - | + | GONI MACU |
| GYPTIS CAPENSIS | + | - | - | + | + | + | - | - | + | - | + | - | - | + | - | - | - | + | + | - | - | + | + | GYPT CAPE |
| HARMOTHOE JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM JUVE |
| HARMOTHOE LONGISETIS | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM LONG |
| HARMOTHOE LUNUATA | - | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | + | HARM LUNU |
| HARMOTHOE NODOSA | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM NODO |
| HARPINIA ANTENNARIA | - | + | - | + | + | + | + | + | + | + | + | + | + | - | + | + | + | - | + | + | + | + | - | HARP ANTE |
| HESIONURA AUGENERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HESI AUGE |
| HETEROMASTUS FILIFORMIS | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HETE FILI |
| HIPPOMEDON DENTICULATUS | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - | HIPP DENT |
| HYDROZOA | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | HYDR OZOA |
| IONE THORACIA | - | - | - | + | - | + | - | - | - | - | + | + | - | - | - | - | - | - | - | + | - | + | + | IONE THOR |
| IPHINOE TRISPINOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | IPHI TRIS |
| LANICE CONCHILEGA | - | - | + | - | + | + | - | - | - | + | + | - | + | - | - | - | - | + | + | - | - | + | + | LANI CONC |
| LEPIDEPECREUM LONGICORNE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPI LONG |

| | Oyster Ground 2 | | | | | | | | | | | | | | | | | | | | | | | |
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| | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | Oys | |
| | 2 | 3 | 4 | 6 | 8 | 9 | 10 | 13 | 17 | 18 | 20 | 22 | 23 | 24 | # | 28 | 29 | 30 | 35 | 37 | 39 | 40 | 41 | |
| LEPTON SQUAMOSUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPT SQUA |
| LEUCOTHOE INCISA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEUC INCI |
| LEUCOTHOE LILLJEBORGI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEUC LILL |
| LUCINOMA BOREALIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | LUCI BORE |
| LUMBRINERIS LATREILLI | - | - | - | - | + | - | - | - | - | - | + | - | - | + | - | - | - | + | - | + | - | - | - | LUMB LATR |
| MACOMA BALTHICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACO BALT |
| MACTRA CORALLINA | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | MACT CORA |
| MACTRA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACT JUVE |
| MAGELONA ALLENI | - | - | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | MAGE ALLE |
| MAGELONA PAPILLICORNIS | + | + | + | + | - | + | + | - | + | + | + | + | + | + | + | + | + | + | + | - | + | + | + | MAGE PAPI |
| MEGALUROPUS AGILIS | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | MEGA AGIL |
| MICROPROTOPUS MACULATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR MACU |
| MICROPHTHALAMUS SIMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR SIMI |
| MICROPHTHALAMUS SPEC. | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR SPEC |
| MONTACUTA FERRUGINOSA | - | - | - | - | - | - | - | + | - | - | + | - | - | + | - | + | - | + | + | + | + | - | + | MONT FERR |
| MYA TRUNCATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MYA TRUN |
| MYSELLA BIDENTATA | + | + | + | + | + | + | + | + | - | - | + | + | + | - | + | + | + | + | + | + | + | + | + | MYSE BIDE |
| MYSIA UNDATA | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - | + | + | - | + | - | - | - | + | MYSI UNDA |
| NATICA ALDERI | + | - | + | - | + | - | - | - | + | + | + | - | + | - | - | - | + | - | + | - | - | + | + | NATI ALDE |
| NEMERTINI | + | + | + | + | + | + | - | + | + | + | + | + | + | + | + | + | + | - | + | + | - | + | + | NEME RTIN |
| NEPHTYS CAECA | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | NEPH CAEC |
| NEPHTYS CIRROSA | - | - | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | NEPH CIRR |
| NEPHTYS HOMBERGII | + | + | + | + | + | - | - | - | - | - | + | + | + | + | + | - | + | + | + | - | + | + | + | NEPH HOMB |
| NEPHTYS JUVENILE | - | - | + | - | - | - | + | - | + | - | - | - | + | - | - | + | + | + | + | + | + | - | + | NEPH JUVE |
| NEPHTYS LONGOSETOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NEPH LONG |
| NEREIS LONGISSIMA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NERE LONG |
| NOTOMASTUS LATERICEUS | + | + | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - | - | NOTO LATE |
| NUCULA NUCLEUS | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | NUCU NUCL |
| NUCULA TENIUS | - | + | - | - | - | - | + | + | - | - | + | + | - | - | - | - | - | - | - | - | + | + | + | NUCU TENU |
| NUCULA TURGIDA | - | - | + | - | + | + | - | + | - | - | + | - | + | - | - | + | + | - | + | - | - | + | + | NUCU TURG |
| OLIGOCHAETA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | OLIG OCHA |
| OPHELINA ACUMINATA | - | - | - | - | + | - | - | - | - | - | - | + | - | - | + | - | - | - | - | - | - | - | - | OPHE ACUM |
| OPHELIA LIMACINA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHE LIMA |
| OPHIURA ALBIDA | + | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI ALBI |
| OPHIODROMUS FLEXUOSUS | - | + | - | + | + | + | - | - | + | + | + | - | - | + | - | - | + | + | + | - | - | + | - | OPHI FLEX |
| OPHIURIDAE JUVENILE | + | + | + | + | + | + | + | + | + | + | + | + | + | - | + | + | + | - | + | + | + | + | + | OPHI JUVE |
| OPHIURA TEXTURATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI TEXT |
| ORCHOMENE HUMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ORCH HUMI |
| OWENIA FUSIFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OWEN FUSI |
| PARAONIS FULGENS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PARA FULG |
| PARAONIS GRACILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | PARA GRAC |
| PECTINARIA AURICOMA | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | + | - | PECT AURI |
| PECTINARIA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | PECT JUVE |
| PECTINARIA KORENI | + | + | + | - | + | + | - | - | + | - | + | + | + | - | + | - | - | - | + | + | - | + | - | PECT KORE |
| PERIOCULODES LONGIMANUS | - | - | + | - | - | - | - | - | + | + | - | - | - | - | - | + | + | - | - | - | - | + | - | PERI LONG |
| PHOLOE MINUTA | - | + | + | + | + | + | + | + | + | + | + | + | + | - | + | + | + | - | + | + | + | + | + | PHOL MINU |
| PHORONIDA | + | + | + | + | - | - | + | + | + | + | + | + | - | + | + | + | + | + | + | + | + | + | + | PHOR ONID |
| PISIONE REMOTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PISI REMO |
| PLATHYHELMITHES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PLAT HYHE |
| POECILOCHAETUS SERPENS | - | - | - | - | - | - | - | - | - | - | + | + | + | + | + | - | - | - | - | - | - | + | - | POEC SERP |

| | | | | | Oyster Ground 2 | | | | | | | | | | | | | | | | | | | |
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| | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | Ovs | |
| | 2 | 3 | 4 | 6 | 8 | 9 | 10 | 13 | 17 | 18 | 20 | 22 | 23 | 24 | # | 28 | 29 | 30 | 35 | 37 | 39 | 40 | 41 | |
| POLYDORA SPEC. | - | - | - | - | + | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - | - | POLY DORA |
| POLYNOE KINBERGI | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | POLY KINB |
| PONTOCRATES ALTAMARINUS | - | - | - | + | - | - | - | + | - | - | - | - | + | - | - | - | - | - | + | - | - | - | - | PONT ALTA |
| PONTOCRATES ARENARIUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PONT AREN |
| PSEUDOCUMA LONGICORNIS | - | + | + | - | - | - | - | - | - | - | - | - | + | - | - | - | + | + | - | - | - | - | - | PSEU LONG |
| PSEUDOCUMA SIMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PSEU SIMI |
| SCALIBREGMA INFLATUM | - | - | - | - | + | - | - | - | - | + | - | - | - | - | - | - | - | + | - | - | - | - | + | SCAL INFL |
| SCOLOPLOS ARMIGER | - | + | + | + | + | + | + | - | + | - | + | + | + | - | + | + | + | - | - | - | - | - | - | SCOL ARMI |
| SCOLELEPIS BONNERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | SCOL BONN |
| SCOLELEPIS SQUAMATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SCOL SQUA |
| SIGALION JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIGA JUVE |
| SIGALION MATHILDAE | - | - | + | - | - | + | - | + | - | + | - | - | + | + | + | + | + | - | + | - | + | - | + | SIGA MATH |
| SIPHONOECETES KROYERANUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIPH KROY |
| SPHAERODORUM FLAVUM | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPHA FLAV |
| SPHAEROSYLLIS HYTRIX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPHA HYTR |
| SPIOPHANES BOMBYX | + | + | + | - | + | + | + | - | + | + | + | - | + | + | + | + | + | + | + | - | - | - | + | SPIO BOMB |
| SPIO FILICORNIS | - | - | + | - | - | + | - | + | + | - | - | - | - | - | - | + | + | - | + | + | - | + | - | SPIO FILI |
| SPIOPHANES KROYERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIO KROE |
| SPISULA ELLIPTICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIS ELLI |
| SPISULA SUBTRUNCATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIS SUBT |
| STHENELAIS BOA | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | STHE BOA |
| STHENELAIS LIMICOLA | + | - | - | - | - | + | - | - | + | - | - | - | - | + | - | - | - | - | - | - | - | - | - | STHE LIMI |
| STREPTOSYLLIS WEBSTERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | STRE WEBS |
| SYNCHELIDIUM MACULATUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SYNC MACU |
| SYNELMIS KLATTI | - | - | - | - | - | - | + | + | - | - | + | + | + | - | + | + | - | - | + | + | + | + | - | SYNE KLAT |
| TELLINA FABULA | - | - | + | - | - | - | - | - | + | + | - | - | + | + | - | + | + | + | - | - | - | - | + | TELL FABU |
| TELLINA PYGMEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TELL PYGM |
| TELLINA TENIUS | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | TELL TENU |
| THRACIA CONVEXA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | THRA CONV |
| THRACIA PHASEOLINA | - | - | - | - | + | - | - | - | + | - | + | - | + | - | + | + | + | - | - | - | - | - | + | THRA PHAS |
| THYASIRA FLEXUOSA | - | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | + | THYA FLEX |
| TORNUS SUBCARINATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TORN SUBC |
| TRAVISIA FORBESI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TRAV FORB |
| UPOGEBIA DELTAURA | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | UPOG DELT |
| UROTHOE BREVICORNIS | - | - | - | - | - | - | - | - | + | - | + | - | - | - | - | + | - | - | - | - | - | - | - | UROT BREV |
| UROTHOE ELEGANS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | UROT ELEG |
| UROTHOE POSEIDONIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | UROT POSE |
| VENUS STRIATULA | - | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | VENU STRI |
| WESTWOODILLA CAECULA | - | + | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | WEST CAEC |
| No. Species | 24 | 29 | 38 | 29 | 31 | 29 | 27 | 25 | 33 | 21 | 41 | 28 | 38 | 19 | 31 | 32 | 35 | 26 | 36 | 35 | 20 | 36 | 36 | |

# Appendix-1 Biomonitoring 1995

| | Southern offshore area | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Coa | Coa | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | |
| | 11 | 13 | 6 | 10 | 12 | 13 | 14 | 16 | 17 | 18 | 20 | 21 | 22 | 24 | 25 | 26 | 27 | 28 | 29 | 31 | 32 | 34 | 35 | 36 | |
| ABRA ALBA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ABRA ALBA |
| ABRA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ABRA JUVE |
| ABRA PRISMATICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ABRA PRIS |
| ACIDOSTOMA OBESUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ACID OBES |
| ACROCNIDA BRACHIATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ACRO BRAC |
| AMPELISCA BREVICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPE BREV |
| AMPELISCA TENUICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPE TENU |
| AMPHIURA FILIFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPH FILI |
| AMPHIPODA SPEC. | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | AMPH IPOD |
| ANAITIDES GROENLANDICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI GROE |
| ANAITIDES JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI JUVE |
| ANAITIDES LINEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI LINE |
| ANAITIDES MACULATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI MACU |
| ANAITIDES MUCOSA | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | ANAI MUCO |
| ANAITIDES SUBULIFERA | - | - | + | - | - | - | - | - | - | - | + | - | + | - | + | - | - | - | + | - | + | - | - | - | ANAI SUBU |
| ANTHOZOA | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - | - | - | ANTH OZOA |
| AONIDES PAUCIBRANCHIATA | - | - | + | - | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - | - | AONI PAUC |
| APHERUSA JURI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHE JURI |
| APHRODITA ACULEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHR ACUL |
| APHRODITA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHR JUVE |
| APLACOPHORA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APLA COPH |
| ARCHIANNELIDA | + | - | - | - | - | - | - | - | - | - | - | - | + | - | + | + | + | - | + | - | - | - | - | - | ARCH IANN |
| ARCTICA ISLANDICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARCT ISLA |
| ARGISSA HAMATIPES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | ARGI HAMA |
| ARICIDEA JEFFREYSII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARIC JEFF |
| ARICIDEA MINUTA | - | - | + | + | + | + | + | + | + | - | + | - | - | - | + | - | - | - | - | + | + | + | + | + | ARIC MINU |
| ASTERIAS JUVENILE | + | - | - | - | - | - | - | - | - | + | - | - | - | + | + | - | - | - | + | - | - | - | - | - | ASTE JUVE |
| ASTROPECTEN IRREGULARIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ASTR IRRE |
| ATYLUS FALCATUS | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | ATYL FALC |
| ATYLUS SWAMMERDAMI | - | - | - | - | - | - | - | - | - | + | - | + | - | - | - | - | - | - | - | - | + | - | - | - | ATYL SWAM |
| BATHYPOREIA ELEGANS | - | - | - | + | + | + | + | + | - | - | + | - | - | - | - | - | - | - | + | + | - | + | - | - | BATH ELEG |
| BATHYPOREIA GUILLIAMSONIANA | + | - | + | - | - | - | - | + | - | - | - | - | + | - | - | - | - | - | - | - | + | + | - | + | BATH GUIL |
| BATHYPOREIA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + | + | - | - | BATH JUVE |
| BATHYPOREIA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | BATH SPEC |
| BATHYPOREIA TENUIPES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BATH TENU |
| BODOTRIA ARENOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BODO AREN |
| BRISSOPSIS LYRIFERA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BRIS LYRI |
| CALLIANASSA SUBTERRANEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CALL SUBT |
| CAPITELLA CAPITATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAPI CAPI |
| CAPITELLIDAE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAPI TELL |
| CAPRELLIDAE | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | + | - | + | - | + | - | CAPR ELLI |
| CAUDERIELLA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAUD ERIE |
| CHAETOZONE SETOSA | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + | - | - | CHAE SETO |
| CHAETOPTERUS VARIOPEDATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CHAE VARI |
| CHLAMYS VARIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CHLA VARI |
| CINGULA VITREA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CING VITR |
| CORBULA GIBBA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CORB GIBB |
| CORYSTES CASSIVELAUNUS | - | - | - | - | - | + | - | - | - | + | - | - | - | - | + | - | - | - | - | - | - | + | - | - | CORY CASS |
| CUCUMARIA ELONGATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CUCU ELON |
| CULTELLUS PELLUCIDUS | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CULT PELL |

| | Southern offshore area | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Coa | Coa | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | |
| | 11 | 13 | 6 | 10 | 12 | 13 | 14 | 16 | 17 | 18 | 20 | 21 | 22 | 24 | 25 | 26 | 27 | 28 | 29 | 31 | 32 | 34 | 35 | 36 | |
| CYLICHNA CYLINDRACEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CYLI CYLI |
| DIASTYLIS BRADYI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | DIAS BRAD |
| DIPLOCIRRUS GLAUCUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DIPL GLAU |
| DONAX VITTATUS | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DONA VITT |
| DOSINIA EXOLETA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DOSI EXOL |
| DOSINIA LUPINUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DOSI LUPI |
| ECHINOCARDIUM CORDATUM | - | - | - | - | - | - | - | - | + | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - | ECHI CORD |
| ECHINOCARDIUM JUVENILE | - | - | + | + | + | + | + | + | - | - | - | - | - | - | - | + | - | - | + | + | - | + | - | - | ECHI JUVE |
| ECHINOCYAMUS PUSILLUS | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + | - | - | - | - | - | + | ECHI PUSI |
| EDWARDSIA CLAPAREDII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EDWA CLAP |
| ENSIS DIRECTUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI DIRE |
| ENSIS ENSIS | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI ENSI |
| ENSIS JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI JUVE |
| ENSIS SILIQUA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SILI |
| ENSIS SPEC. | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SPEC |
| ENTOPROCTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENTO PROC |
| ETEONE LONGA | + | - | + | - | - | - | - | - | - | - | - | - | + | + | + | - | - | - | + | - | - | - | - | - | ETEO LONG |
| EUDORELLOPSIS DEFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EUDO DEFO |
| EUDORELLA TRUNCATULA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EUDO TRUN |
| EULALIA BILINEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | EULA BILI |
| EULIMA ALBA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EULI ALBA |
| EUMIDA SANGUINEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | EUMI SANG |
| EURYDICE SPINIGERA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | EURY SPIN |
| EXOGONE HEBES | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | EXOG HEBE |
| EXOGONE NAIDINA | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | + | - | - | - | - | - | EXOG NAID |
| GAMMARIDAE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | + | - | GAMM ARID |
| GAMMAROPSIS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GAMM AROP |
| GARI FERVENSIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GARI FERV |
| GATTYANA CIRROSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GATT CIRR |
| GLYCERA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GLYC JUVE |
| GLYCERA LAPIDUM | - | - | - | - | - | - | - | - | - | - | - | + | - | + | + | + | - | + | + | - | - | - | - | + | GLYC LAPI |
| GLYCERA ROUXI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GLYC ROUX |
| GOLFINGIA ELONGATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GOLF ELON |
| GOLFINGIA VULGARIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GOLF VULG |
| GONIADELLA BOBRETZKII | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GONI BOBR |
| GONIADA MACULATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GONI MACU |
| GYPTIS CAPENSIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | GYPT CAPE |
| HARMOTHOE JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM JUVE |
| HARMOTHOE LONGISETIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM LONG |
| HARMOTHOE LUNUATA | - | - | + | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - | - | - | - | - | HARM LUNU |
| HARMOTHOE NODOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM NODO |
| HARPINIA ANTENNARIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARP ANTE |
| HESIONURA AUGENERI | - | - | + | - | - | - | - | - | - | + | + | - | + | + | - | + | + | - | - | - | - | - | + | + | HESI AUGE |
| HETEROMASTUS FILIFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HETE FILI |
| HIPPOMEDON DENTICULATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HIPP DENT |
| HYDROZOA | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - | - | HYDR OZOA |
| IONE THORACIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | IONE THOR |
| IPHINOE TRISPINOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | IPHI TRIS |
| LANICE CONCHILEGA | + | - | + | - | - | - | - | - | + | + | + | + | + | + | + | - | - | + | + | - | + | + | + | + | LANI CONC |
| LEPIDEPECREUM LONGICORNE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPI LONG |

## Appendix-1 Biomonitoring 1995

| | Southern offshore area | | | | | | | | | | | | | | | | | | | | | | | |
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| | Coa | Coa | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | |
| | 11 | 13 | 6 | 10 | 12 | 13 | 14 | 16 | 17 | 18 | 20 | 21 | 22 | 24 | 25 | 26 | 27 | 28 | 29 | 31 | 32 | 34 | 35 | 36 | |
| LEPTON SQUAMOSUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPT SQUA |
| LEUCOTHOE INCISA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEUC INCI |
| LEUCOTHOE LILLJEBORGI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEUC LILL |
| LUCINOMA BOREALIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LUCI BORE |
| LUMBRINERIS LATREILLI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | + | LUMB LATR |
| MACOMA BALTHICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACO BALT |
| MACTRA CORALLINA | + | - | - | - | - | - | - | - | - | - | - | + | + | + | + | - | - | + | + | - | - | + | - | + | MACT CORA |
| MACTRA JUVENILE | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACT JUVE |
| MAGELONA ALLENI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MAGE ALLE |
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| MICROPROTOPUS MACULATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR MACU |
| MICROPHTHALAMUS SIMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | MICR SIMI |
| MICROPHTHALAMUS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR SPEC |
| MONTACUTA FERRUGINOSA | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MONT FERR |
| MYA TRUNCATA | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MYA TRUN |
| MYSELLA BIDENTATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | MYSE BIDE |
| MYSIA UNDATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MYSI UNDA |
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| NEPHTYS CIRROSA | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | NEPH CIRR |
| NEPHTYS HOMBERGII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NEPH HOMB |
| NEPHTYS JUVENILE | + | - | + | - | - | - | + | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | NEPH JUVE |
| NEPHTYS LONGOSETOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | NEPH LONG |
| NEREIS LONGISSIMA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NERE LONG |
| NOTOMASTUS LATERICEUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | NOTO LATE |
| NUCULA NUCLEUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NUCU NUCL |
| NUCULA TENIUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NUCU TENU |
| NUCULA TURGIDA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NUCU TURG |
| OLIGOCHAETA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OLIG OCHA |
| OPHELINA ACUMINATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHE ACUM |
| OPHELIA LIMACINA | - | - | + | - | + | - | - | + | - | + | + | + | - | - | - | - | - | + | + | - | - | - | + | + | OPHE LIMA |
| OPHIURA ALBIDA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | OPHI ALBI |
| OPHIODROMUS FLEXUOSUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI FLEX |
| OPHIURIDAE JUVENILE | - | - | + | + | - | - | - | + | - | + | - | + | - | - | + | - | - | + | + | - | + | + | - | + | OPHI JUVE |
| OPHIURA TEXTURATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI TEXT |
| ORCHOMENE HUMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ORCH HUMI |
| OWENIA FUSIFORMIS | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OWEN FUSI |
| PARAONIS FULGENS | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PARA FULG |
| PARAONIS GRACILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | PARA GRAC |
| PECTINARIA AURICOMA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PECT AURI |
| PECTINARIA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PECT JUVE |
| PECTINARIA KORENI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | PECT KORE |
| PERIOCULODES LONGIMANUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PERI LONG |
| PHOLOE MINUTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PHOL MINU |
| PHORONIDA | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | PHOR ONID |
| PISIONE REMOTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | PISI REMO |
| PLATHYHELMITHES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PLAT HYHE |
| POECILOCHAETUS SERPENS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | POEC SERP |

| | Southern offshore area | | | | | | | | | | | | | | | | | | | | | | | |
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| | Coa | Coa | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | Off | |
| | 11 | 13 | 6 | 10 | 12 | 13 | 14 | 16 | 17 | 18 | 20 | 21 | 22 | 24 | 25 | 26 | 27 | 28 | 29 | 31 | 32 | 34 | 35 | 36 | |
| POLYDORA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | POLY DORA |
| POLYNOE KINBERGI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | POLY KINB |
| PONTOCRATES ALTAMARINUS | - | + | - | - | + | + | + | + | - | - | - | + | - | - | - | + | + | - | - | - | - | - | - | - | PONT ALTA |
| PONTOCRATES ARENARIUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PONT AREN |
| PSEUDOCUMA LONGICORNIS | + | - | + | + | + | + | + | + | - | + | - | + | + | + | + | + | - | + | - | - | - | + | + | + | PSEU LONG |
| PSEUDOCUMA SIMILIS | - | - | - | - | - | + | - | - | + | - | - | + | - | - | - | - | - | + | + | + | - | - | + | + | PSEU SIMI |
| SCALIBREGMA INFLATUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SCAL INFL |
| SCOLOPLOS ARMIGER | - | - | - | + | + | + | + | + | + | + | - | - | - | + | + | - | + | - | + | + | + | - | - | - | SCOL ARMI |
| SCOLELEPIS BONNERI | - | - | - | + | - | + | - | - | - | - | - | - | + | - | - | - | - | - | + | - | - | - | - | - | SCOL BONN |
| SCOLELEPIS SQUAMATA | - | - | - | - | - | - | - | - | + | + | + | + | - | - | - | - | - | + | - | - | - | - | + | - | SCOL SQUA |
| SIGALION JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIGA JUVE |
| SIGALION MATHILDAE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIGA MATH |
| SIPHONOECETES KROYERANUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIPH KROY |
| SPHAERODORUM FLAVUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPHA FLAV |
| SPHAEROSYLLIS HYTRIX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | SPHA HYTR |
| SPIOPHANES BOMBYX | + | - | + | + | + | + | + | + | - | + | + | + | + | + | + | - | - | + | + | + | + | + | + | + | SPIO BOMB |
| SPIO FILICORNIS | + | - | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | SPIO FILI |
| SPIOPHANES KROYERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIO KROE |
| SPISULA ELLIPTICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | SPIS ELLI |
| SPISULA SUBTRUNCATA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - | - | - | SPIS SUBT |
| STHENELAIS BOA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | STHE BOA |
| STHENELAIS LIMICOLA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | STHE LIMI |
| STREPTOSYLLIS WEBSTERI | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + | - | + | - | - | - | - | - | + | STRE WEBS |
| SYNCHELIDIUM MACULATUM | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SYNC MACU |
| SYNELMIS KLATTI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SYNE KLAT |
| TELLINA FABULA | - | - | - | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | TELL FABU |
| TELLINA PYGMEA | - | - | + | - | - | - | - | - | - | - | - | + | - | - | + | + | - | + | + | - | - | - | + | + | TELL PYGM |
| TELLINA TENIUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TELL TENU |
| THRACIA CONVEXA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | THRA CONV |
| THRACIA PHASEOLINA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | THRA PHAS |
| THYASIRA FLEXUOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | THYA FLEX |
| TORNUS SUBCARINATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TORN SUBC |
| TRAVISIA FORBESI | - | - | - | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | - | - | - | - | - | - | TRAV FORB |
| UPOGEBIA DELTAURA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UPOG DELT |
| UROTHOE BREVICORNIS | - | + | - | - | - | + | + | + | + | + | + | - | + | + | - | - | + | - | - | - | - | + | - | - | UROT BREV |
| UROTHOE ELEGANS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UROT ELEG |
| UROTHOE POSEIDONIS | + | - | - | + | + | + | - | - | - | - | - | - | + | - | - | - | - | - | - | + | - | - | - | - | UROT POSE |
| VENUS STRIATULA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | VENU STRI |
| WESTWOODILLA CAECULA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | WEST CAEC |
| No. Species | 19 | 5 | 26 | 17 | 17 | 18 | 18 | 16 | 11 | 18 | 16 | 21 | 21 | 16 | 21 | 14 | 10 | 23 | 31 | 16 | 15 | 20 | 19 | 24 | |

| | Coastal area | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Off | Off | Off | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 15 | 2 | 3 | 7 | |
| ABRA ALBA | - | - | + | - | - | - | - | - | - | - | - | - | + | - | - | - | ABRA ALBA |
| ABRA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ABRA JUVE |
| ABRA PRISMATICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ABRA PRIS |
| ACIDOSTOMA OBESUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ACID OBES |
| ACROCNIDA BRACHIATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ACRO BRAC |
| AMPELISCA BREVICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPE BREV |
| AMPELISCA TENUICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPE TENU |
| AMPHIURA FILIFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPH FILI |
| AMPHIPODA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AMPH IPOD |
| ANAITIDES GROENLANDICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI GROE |
| ANAITIDES JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | ANAI JUVE |
| ANAITIDES LINEATA | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ANAI LINE |
| ANAITIDES MACULATA | - | - | - | - | - | - | - | + | + | - | - | - | + | - | + | - | ANAI MACU |
| ANAITIDES MUCOSA | + | - | + | - | + | + | - | - | - | - | - | - | - | - | - | - | ANAI MUCO |
| ANAITIDES SUBULIFERA | + | + | - | - | - | + | - | - | - | - | - | - | - | - | + | - | ANAI SUBU |
| ANTHOZOA | + | - | + | - | - | - | - | - | + | - | - | - | + | + | + | - | ANTH OZOA |
| AONIDES PAUCIBRANCHIATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | AONI PAUC |
| APHERUSA JURI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHE JURI |
| APHRODITA ACULEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHR ACUL |
| APHRODITA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APHR JUVE |
| APLACOPHORA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | APLA COPH |
| ARCHIANNELIDA | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | ARCH IANN |
| ARCTICA ISLANDICA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARCT ISLA |
| ARGISSA HAMATIPES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARGI HAMA |
| ARICIDEA JEFFREYSII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARIC JEFF |
| ARICIDEA MINUTA | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ARIC MINU |
| ASTERIAS JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | ASTE JUVE |
| ASTROPECTEN IRREGULARIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ASTR IRRE |
| ATYLUS FALCATUS | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | ATYL FALC |
| ATYLUS SWAMMERDAMI | - | - | + | - | - | - | + | - | - | - | - | - | - | - | + | - | ATYL SWAM |
| BATHYPOREIA ELEGANS | - | + | - | - | - | + | + | + | + | - | - | + | - | + | + | + | BATH ELEG |
| BATHYPOREIA GUILLIAMSONIANA | + | - | - | - | + | + | + | + | - | - | - | - | - | - | - | + | BATH GUIL |
| BATHYPOREIA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BATH JUVE |
| BATHYPOREIA SPEC. | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | BATH SPEC |
| BATHYPOREIA TENUIPES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BATH TENU |
| BODOTRIA ARENOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BODO AREN |
| BRISSOPSIS LYRIFERA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | BRIS LYRI |
| CALLIANASSA SUBTERRANEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CALL SUBT |
| CAPITELLA CAPITATA | + | - | + | + | + | + | - | + | + | - | - | + | + | + | + | - | CAPI CAPI |
| CAPITELLIDAE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAPI TELL |
| CAPRELLIDAE | + | - | + | - | - | - | + | - | - | - | - | - | + | + | - | - | CAPR ELLI |
| CAUDERIELLA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CAUD ERIE |
| CHAETOZONE SETOSA | - | - | - | - | - | - | - | - | + | - | - | - | - | - | + | + | CHAE SETO |
| CHAETOPTERUS VARIOPEDATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CHAE VARI |
| CHLAMYS VARIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CHLA VARI |
| CINGULA VITREA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CING VITR |
| CORBULA GIBBA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CORB GIBB |
| CORYSTES CASSIVELAUNUS | - | - | - | + | - | - | - | - | - | - | - | - | - | + | + | - | CORY CASS |
| CUCUMARIA ELONGATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CUCU ELON |
| CULTELLUS PELLUCIDUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CULT PELL |

| | | | | | | Coastal area | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Off | Off | Off | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 15 | 2 | 3 | 7 | |
| CYLICHNA CYLINDRACEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CYLI CYLI |
| DIASTYLIS BRADYI | + | + | + | - | + | - | - | - | - | - | - | - | + | + | + | - | DIAS BRAD |
| DIPLOCIRRUS GLAUCUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DIPL GLAU |
| DONAX VITTATUS | + | - | - | - | - | + | - | + | - | - | - | - | - | - | - | - | DONA VITT |
| DOSINIA EXOLETA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DOSI EXOL |
| DOSINIA LUPINUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | DOSI LUPI |
| ECHINOCARDIUM CORDATUM | + | + | - | - | + | + | - | + | + | - | + | - | - | + | + | + | ECHI CORD |
| ECHINOCARDIUM JUVENILE | + | - | - | - | - | - | - | - | - | - | - | - | - | + | + | + | ECHI JUVE |
| ECHINOCYAMUS PUSILLUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ECHI PUSI |
| EDWARDSIA CLAPAREDII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EDWA CLAP |
| ENSIS DIRECTUS | - | + | + | + | - | - | - | + | - | + | - | + | + | - | - | - | ENSI DIRE |
| ENSIS ENSIS | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | ENSI ENSI |
| ENSIS JUVENILE | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | ENSI JUVE |
| ENSIS SILIQUA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SILI |
| ENSIS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENSI SPEC |
| ENTOPROCTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ENTO PROC |
| ETEONE LONGA | - | - | - | - | - | + | - | - | + | - | - | - | - | - | + | - | ETEO LONG |
| EUDORELLOPSIS DEFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EUDO DEFO |
| EUDORELLA TRUNCATULA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EUDO TRUN |
| EULALIA BILINEATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EULA BILI |
| EULIMA ALBA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EULI ALBA |
| EUMIDA SANGUINEA | + | + | - | - | + | + | - | - | - | - | - | - | - | - | + | - | EUMI SANG |
| EURYDICE SPINIGERA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EURY SPIN |
| EXOGONE HEBES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | EXOG HEBE |
| EXOGONE NAIDINA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | EXOG NAID |
| GAMMARIDAE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GAMM ARID |
| GAMMAROPSIS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GAMM AROP |
| GARI FERVENSIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GARI FERV |
| GATTYANA CIRROSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GATT CIRR |
| GLYCERA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GLYC JUVE |
| GLYCERA LAPIDUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GLYC LAPI |
| GLYCERA ROUXI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GLYC ROUX |
| GOLFINGIA ELONGATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GOLF ELON |
| GOLFINGIA VULGARIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GOLF VULG |
| GONIADELLA BOBRETZKII | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GONI BOBR |
| GONIADA MACULATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | GONI MACU |
| GYPTIS CAPENSIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | GYPT CAPE |
| HARMOTHOE JUVENILE | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM JUVE |
| HARMOTHOE LONGISETIS | - | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | HARM LONG |
| HARMOTHOE LUNUATA | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - | HARM LUNU |
| HARMOTHOE NODOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARM NODO |
| HARPINIA ANTENNARIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HARP ANTE |
| HESIONURA AUGENERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HESI AUGE |
| HETEROMASTUS FILIFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | HETE FILI |
| HIPPOMEDON DENTICULATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | HIPP DENT |
| HYDROZOA | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | HYDR OZOA |
| IONE THORACIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | IONE THOR |
| IPHINOE TRISPINOSA | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | IPHI TRIS |
| LANICE CONCHILEGA | + | + | + | + | + | + | - | - | - | + | + | + | + | + | + | + | LANI CONC |
| LEPIDEPECREUM LONGICORNE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPI LONG |

# Appendix-1 Biomonitoring 1995

| | Coastal area | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Off | Off | Off | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 15 | 2 | 3 | 7 | |
| LEPTON SQUAMOSUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEPT SQUA |
| LEUCOTHOE INCISA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEUC INCI |
| LEUCOTHOE LILLJEBORGI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LEUC LILL |
| LUCINOMA BOREALIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LUCI BORE |
| LUMBRINERIS LATREILLI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | LUMB LATR |
| MACOMA BALTHICA | - | + | - | + | - | + | - | + | - | - | - | + | - | - | - | - | MACO BALT |
| MACTRA CORALLINA | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | MACT CORA |
| MACTRA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MACT JUVE |
| MAGELONA ALLENI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MAGE ALLE |
| MAGELONA PAPILLICORNIS | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | MAGE PAPI |
| MEGALUROPUS AGILIS | - | - | - | - | + | - | - | - | - | - | + | - | - | - | - | + | MEGA AGIL |
| MICROPROTOPUS MACULATUS | - | + | + | - | - | + | - | - | - | - | - | - | - | - | - | - | MICR MACU |
| MICROPHTHALAMUS SIMILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR SIMI |
| MICROPHTHALAMUS SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MICR SPEC |
| MONTACUTA FERRUGINOSA | + | + | - | - | + | + | - | + | + | - | + | - | + | + | + | + | MONT FERR |
| MYA TRUNCATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MYA TRUN |
| MYSELLA BIDENTATA | + | - | - | - | - | + | - | - | + | + | - | + | + | + | - | - | MYSE BIDE |
| MYSIA UNDATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | MYSI UNDA |
| NATICA ALDERI | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | NATI ALDE |
| NEMERTINI | + | - | - | + | + | + | - | + | + | + | + | + | + | + | + | - | NEME RTIN |
| NEPHTYS CAECA | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | NEPH CAEC |
| NEPHTYS CIRROSA | + | + | + | - | + | + | + | + | + | + | + | + | - | - | - | - | NEPH CIRR |
| NEPHTYS HOMBERGII | + | + | + | + | + | + | - | + | - | + | - | + | + | + | + | - | NEPH HOMB |
| NEPHTYS JUVENILE | - | + | - | - | - | + | - | - | - | - | - | - | - | + | + | - | NEPH JUVE |
| NEPHTYS LONGOSETOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NEPH LONG |
| NEREIS LONGISSIMA | + | - | + | - | - | - | - | + | - | - | - | - | - | - | - | - | NERE LONG |
| NOTOMASTUS LATERICEUS | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - | NOTO LATE |
| NUCULA NUCLEUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NUCU NUCL |
| NUCULA TENIUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NUCU TENU |
| NUCULA TURGIDA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | NUCU TURG |
| OLIGOCHAETA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OLIG OCHA |
| OPHELINA ACUMINATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHE ACUM |
| OPHELIA LIMACINA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHE LIMA |
| OPHIURA ALBIDA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI ALBI |
| OPHIODROMUS FLEXUOSUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI FLEX |
| OPHIURIDAE JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OPHI JUVE |
| OPHIURA TEXTURATA | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | OPHI TEXT |
| ORCHOMENE HUMILIS | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - | ORCH HUMI |
| OWENIA FUSIFORMIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | OWEN FUSI |
| PARAONIS FULGENS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PARA FULG |
| PARAONIS GRACILIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PARA GRAC |
| PECTINARIA AURICOMA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PECT AURI |
| PECTINARIA JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PECT JUVE |
| PECTINARIA KORENI | - | - | + | + | + | - | - | - | + | + | - | - | + | - | - | - | PECT KORE |
| PERIOCULODES LONGIMANUS | + | - | - | - | + | - | - | - | - | - | - | - | - | - | + | + | PERI LONG |
| PHOLOE MINUTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PHOL MINU |
| PHORONIDA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | PHOR ONID |
| PISIONE REMOTA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PISI REMO |
| PLATHYHELMITHES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PLAT HYHE |
| POECILOCHAETUS SERPENS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | POEC SERP |

| | Coastal area | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Coa | Off | Off | Off | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 15 | 2 | 3 | 7 | |
| POLYDORA SPEC. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | POLY DORA |
| POLYNOE KINBERGI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | POLY KINB |
| PONTOCRATES ALTAMARINUS | - | - | - | - | - | - | + | + | - | - | + | - | - | - | - | - | PONT ALTA |
| PONTOCRATES ARENARIUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | PONT AREN |
| PSEUDOCUMA LONGICORNIS | + | + | + | - | + | - | + | + | + | - | + | - | + | + | + | - | PSEU LONG |
| PSEUDOCUMA SIMILIS | - | - | - | - | - | - | - | - | + | - | - | - | - | - | + | - | PSEU SIMI |
| SCALIBREGMA INFLATUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SCAL INFL |
| SCOLOPLOS ARMIGER | - | - | + | - | - | - | - | - | + | - | - | - | + | - | - | + | SCOL ARMI |
| SCOLELEPIS BONNERI | - | - | - | - | + | + | - | - | - | - | + | - | - | - | - | - | SCOL BONN |
| SCOLELEPIS SQUAMATA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SCOL SQUA |
| SIGALION JUVENILE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIGA JUVE |
| SIGALION MATHILDAE | + | - | - | - | - | - | - | + | - | - | - | - | + | + | + | - | SIGA MATH |
| SIPHONOECETES KROYERANUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SIPH KROY |
| SPHAERODORUM FLAVUM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPHA FLAV |
| SPHAEROSYLLIS HYTRIX | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPHA HYTR |
| SPIOPHANES BOMBYX | + | + | + | + | + | + | - | + | + | + | + | + | + | + | + | + | SPIO BOMB |
| SPIO FILICORNIS | + | + | + | + | + | + | - | + | + | - | + | + | + | - | + | - | SPIO FILI |
| SPIOPHANES KROYERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIO KROE |
| SPISULA ELLIPTICA | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | SPIS ELLI |
| SPISULA SUBTRUNCATA | + | - | + | - | + | - | - | - | + | + | - | - | + | - | - | - | SPIS SUBT |
| STHENELAIS BOA | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | STHE BOA |
| STHENELAIS LIMICOLA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | STHE LIMI |
| STREPTOSYLLIS WEBSTERI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | STRE WEBS |
| SYNCHELIDIUM MACULATUM | - | - | - | - | - | - | - | - | - | - | - | - | - | + | + | - | SYNC MACU |
| SYNELMIS KLATTI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | SYNE KLAT |
| TELLINA FABULA | + | + | + | + | + | + | - | + | + | + | + | + | + | + | + | + | TELL FABU |
| TELLINA PYGMEA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TELL PYGM |
| TELLINA TENIUS | - | + | - | + | - | + | - | - | - | + | - | + | - | - | - | - | TELL TENU |
| THRACIA CONVEXA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | THRA CONV |
| THRACIA PHASEOLINA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | THRA PHAS |
| THYASIRA FLEXUOSA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | THYA FLEX |
| TORNUS SUBCARINATUS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TORN SUBC |
| TRAVISIA FORBESI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | TRAV FORB |
| UPOGEBIA DELTAURA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UPOG DELT |
| UROTHOE BREVICORNIS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UROT BREV |
| UROTHOE ELEGANS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | UROT ELEG |
| UROTHOE POSEIDONIS | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | UROT POSE |
| VENUS STRIATULA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | VENU STRI |
| WESTWOODILLA CAECULA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | WEST CAEC |
| No. Species | 31 | 21 | 24 | 14 | 24 | 28 | 9 | 23 | 22 | 13 | 15 | 16 | 26 | 25 | 33 | 15 | |

## NOTE

Explanation of abbreviations in the tables:

| | |
|---|---|
| N | = Number of individuals per $m^2$ |
| B | = Biomass in g AFDW/$m^2$ |
| S.D. | = Sample standard deviation |
| SUMS | = Sum of densities per boxcore |
| NSPC | = Number of species per boxcore |
| SH-W | = Shannon-Wiener index of diversity in bits/ind. |
| SIMP | = Simpson's index of dominance |

All species names have been abbreviated by the first four characters of the generic name and the first four characters of the specific name. For full latin names, see Appendix-1.

Station index:

| STATION: | DOG 1 | | DOG 2 | | DOG 3 | | DOG 4 | | DOG 5 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ATYLFALC | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| ATYLSWAM | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHELEG | 380.4 | 0.114 | 29.3 | 0.009 | 278.0 | 0.083 | 351.1 | 0.105 | 73.2 | 0.022 |
| BATHGUIL | 58.5 | 0.018 | 0.0 | 0.000 | 87.8 | 0.026 | 175.6 | 0.053 | 14.6 | 0.004 |
| BATHJUVE | 160.9 | 0.032 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPRELLI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 |
| CORYCASS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.038 |
| DIASBRAD | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.015 | 14.6 | 0.007 | 0.0 | 0.000 |
| HIPPDENT | 73.2 | 0.022 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| IPHITRIS | 14.6 | 0.007 | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.007 | 14.6 | 0.007 |
| LEPILONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| LEUCLILL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 |
| PERILONG | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 |
| PONTAREN | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 29.3 | 0.009 | 0.0 | 0.000 |
| PSEULONG | 0.0 | 0.000 | 14.6 | 0.003 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 |
| SIPHKROY | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 |
| UROTELEG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| UROTPOSE | 131.7 | 0.040 | 58.5 | 0.018 | 131.7 | 0.040 | 204.8 | 0.061 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| ACROBRAC | 102.4 | 3.238 | 102.4 | 10.318 | 58.5 | 2.335 | 29.3 | 0.616 | 204.8 | 7.808 |
| ASTEJUVE | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHICORD | 0.0 | 0.000 | 14.6 | 8.241 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHIJUVE | 380.4 | 0.038 | 1550.8 | 0.155 | 380.4 | 0.038 | 1975.1 | 0.198 | 29.3 | 0.003 |
| ECHIPUSI | 131.7 | 0.047 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIJUVE | 160.9 | 0.032 | 204.8 | 0.041 | 43.9 | 0.009 | 29.3 | 0.006 | 102.4 | 0.021 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.007 |
| ABRAPRIS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.004 |
| ARCTISLA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 |
| CYLICYLI | 14.6 | 0.026 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.012 | 0.0 | 0.000 |
| DOSIEXOL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.304 |
| ENSIENSI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 8.405 | 0.0 | 0.000 |
| GARIFERV | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.628 |
| LUCIBORE | 14.6 | 4.314 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 5.371 | 14.6 | 7.185 |
| MACTCORA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| MONTFERR | 0.0 | 0.000 | 29.3 | 0.021 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.038 |
| MYSEBIDE | 234.1 | 0.057 | 614.5 | 0.148 | 175.6 | 0.038 | 73.2 | 0.018 | 102.4 | 0.160 |
| NATIALDE | 14.6 | 0.004 | 43.9 | 0.022 | 29.3 | 0.038 | 73.2 | 0.073 | 14.6 | 0.010 |
| SPISSUBT | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.069 | 0.0 | 0.000 | 0.0 | 0.000 |
| TELLFABU | 0.0 | 0.000 | 863.2 | 0.907 | 160.9 | 0.401 | 160.9 | 0.800 | 658.3 | 1.507 |
| THRAPHAS | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.053 | 14.6 | 0.060 | 0.0 | 0.000 |
| VENUSTRI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.332 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAIMUCO | 14.6 | 0.002 | 0.0 | 0.000 | 29.3 | 0.007 | 0.0 | 0.000 | 14.6 | 0.010 |
| ARICMINU | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| CHAESETO | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 234.1 | 0.037 | 29.3 | 0.006 |
| ETEOLONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 14.6 | 0.004 |
| EUMISANG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.010 |
| GLYCROUX | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.032 | 0.0 | 0.000 | 0.0 | 0.000 |
| GONIMACU | 14.6 | 0.079 | 29.3 | 0.083 | 0.0 | 0.000 | 43.9 | 0.110 | 29.3 | 0.143 |
| HARMLUNU | 14.6 | 0.006 | 29.3 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 58.5 | 0.010 | 526.7 | 0.127 | 541.3 | 0.060 | 219.4 | 0.029 | 117.0 | 1.128 |
| MAGEALLE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| MAGEPAPI | 292.6 | 0.241 | 512.0 | 0.064 | 117.0 | 0.022 | 482.8 | 0.313 | 658.3 | 0.253 |
| NEPHCIRR | 73.2 | 0.402 | 0.0 | 0.000 | 73.2 | 0.072 | 58.5 | 0.012 | 29.3 | 0.044 |
| NEPHHOMB | 0.0 | 0.000 | 87.8 | 0.042 | 0.0 | 0.000 | 14.6 | 0.006 | 29.3 | 0.032 |
| NOTOLATE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 1.021 | 0.0 | 0.000 |
| OWENFUSI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.568 | 0.0 | 0.000 |
| PARAFULG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 43.9 | 0.013 | 0.0 | 0.000 |
| PHOLMINU | 29.3 | 0.004 | 29.3 | 0.007 | 14.6 | 0.002 | 14.6 | 0.002 | 58.5 | 0.012 |
| SCOLARMI | 29.3 | 0.038 | 87.8 | 0.037 | 58.5 | 1.684 | 43.9 | 0.029 | 0.0 | 0.000 |
| SCOLSQUA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.120 | 0.0 | 0.000 | 0.0 | 0.000 |
| SIGAMATH | 0.0 | 0.000 | 14.6 | 0.379 | 0.0 | 0.000 | 14.6 | 0.394 | 43.9 | 0.380 |
| SPIOBOMB | 190.2 | 0.023 | 14.6 | 0.007 | 585.2 | 0.086 | 877.8 | 0.078 | 73.2 | 0.006 |
| SPIOFILI | 29.3 | 0.002 | 0.0 | 0.000 | 58.5 | 0.012 | 14.6 | 0.004 | 0.0 | 0.000 |
| STHEBOA | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.091 | 29.3 | 0.376 |
| EDWACLAP | 14.6 | 0.241 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ENTOPROC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 146.3 | 0.015 | 0.0 | 0.000 |
| NEMERTIN | 58.5 | 0.445 | 43.9 | 0.006 | 29.3 | 0.019 | 43.9 | 0.029 | 43.9 | 0.026 |
| PHORONID | 131.7 | 0.120 | 29.3 | 0.006 | 146.3 | 0.108 | 117.0 | 0.050 | 160.9 | 0.089 |
| SUMS | 2911.4 | 9.627 | 4974.2 | 20.667 | 3379.5 | 5.419 | 5822.7 | 18.961 | 2867.5 | 20.280 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 31 | | 24 | | 35 | | 42 | | 33 | |
| SH-W | 2.919 | | 2.184 | | 2.848 | | 2.549 | | 2.694 | |
| SIMP | 0.071 | | 0.168 | | 0.088 | | 0.156 | | 0.122 | |

| **STATION:** | DOG 6 | | DOG 7 | | OYS 1 | | OYS 2 | | OYS 3 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ATYLFALC | 14.6 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ATYLSWAM | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHELEG | 395.0 | 0.119 | 73.2 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHGUIL | 497.4 | 0.149 | 248.7 | 0.075 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHJUVE | 204.8 | 0.061 | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CALLSUBT | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.715 | 43.9 | 2.527 | 0.0 | 0.000 |
| CAPRELLI | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CORYCASS | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.070 | 0.0 | 0.000 | 0.0 | 0.000 |
| DIASBRAD | 14.6 | 0.015 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.009 |
| GAMMARID | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARPANTE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 14.6 | 0.004 |
| HIPPDENT | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| IPHITRIS | 14.6 | 0.007 | 29.3 | 0.015 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LEPILONG | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LEUCLILL | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PERILONG | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PONTALTA | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PSEULONG | 14.6 | 0.003 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 |
| SIPHKROY | 58.5 | 0.018 | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| UPOGDELT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 1.383 | 0.0 | 0.000 |
| UROTPOSE | 14.6 | 0.004 | 219.4 | 0.066 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| WESTCAEC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| ECHINODERMATA | | | | | | | | | | |
| ACROBRAC | 29.3 | 1.770 | 14.6 | 0.920 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| AMPHFILI | 0.0 | 0.000 | 0.0 | 0.000 | 1287.4 | 11.326 | 87.8 | 0.543 | 892.4 | 16.978 |
| ASTEJUVE | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.004 |
| ECHICORD | 0.0 | 0.000 | 14.6 | 0.145 | 14.6 | 4.011 | 0.0 | 0.000 | 14.6 | 4.294 |
| ECHIJUVE | 58.5 | 0.006 | 2516.4 | 0.252 | 702.2 | 0.070 | 351.1 | 0.035 | 87.8 | 0.009 |
| ECHIPUSI | 0.0 | 0.000 | 87.8 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIALBI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.016 | 0.0 | 0.000 |
| OPHIJUVE | 14.6 | 0.003 | 14.6 | 0.003 | 0.0 | 0.000 | 131.7 | 0.026 | 43.9 | 0.009 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.009 | 117.0 | 0.031 | 863.2 | 0.590 |
| CULTPELL | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 |
| CYLICYLI | 14.6 | 0.003 | 0.0 | 0.000 | 29.3 | 0.018 | 0.0 | 0.000 | 0.0 | 0.000 |
| DOSIEXOL | 0.0 | 0.000 | 14.6 | 0.044 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ENSIENSI | 14.6 | 0.370 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MONTFERR | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MYSEBIDE | 146.3 | 0.034 | 58.5 | 0.025 | 526.7 | 0.105 | 43.9 | 0.009 | 1068.0 | 0.214 |
| NATIALDE | 14.6 | 0.003 | 29.3 | 0.012 | 0.0 | 0.000 | 29.3 | 0.010 | 0.0 | 0.000 |
| NUCUTENU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 117.0 | 0.100 |
| TELLFABU | 0.0 | 0.000 | 117.0 | 0.238 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| THRACONV | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 3.864 | 0.0 | 0.000 | 0.0 | 0.000 |
| THRAPHAS | 14.6 | 0.003 | 29.3 | 0.019 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| THYAFLEX | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 | 29.3 | 0.004 |
| VENUSTRI | 0.0 | 0.000 | 14.6 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.777 |
| POLYCHAETA | | | | | | | | | | |
| ANAIMACU | 0.0 | 0.000 | 29.3 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAIMUCO | 29.3 | 0.247 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAISUBU | 0.0 | 0.000 | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ARICMINU | 43.9 | 0.006 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAUDERIE | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CHAESETO | 0.0 | 0.000 | 87.8 | 0.012 | 0.0 | 0.000 | 29.3 | 0.007 | 117.0 | 0.061 |
| CHAEVARI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 3.295 | 14.6 | 2.313 | 14.6 | 18.135 |
| EXOGHEBE | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| GATTCIRR | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 1.334 | 29.3 | 0.255 | 14.6 | 1.055 |
| GLYCLAPI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.139 | 58.5 | 0.029 |
| GONIBOBR | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GONIMACU | 29.3 | 0.119 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GYPTCAPE | 14.6 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.026 | 0.0 | 0.000 |
| HARMLUNU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.012 |
| LANICONC | 131.7 | 1.323 | 190.2 | 1.043 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MAGEPAPI | 146.3 | 0.070 | 336.5 | 0.285 | 14.6 | 0.010 | 29.3 | 0.026 | 43.9 | 0.018 |
| NEPHCIRR | 58.5 | 0.092 | 29.3 | 0.050 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHHOMB | 14.6 | 0.032 | 43.9 | 0.442 | 14.6 | 0.421 | 29.3 | 0.834 | 43.9 | 1.798 |
| NEPHJUVE | 73.2 | 0.002 | 0.0 | 0.000 | 43.9 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 |
| NOTOLATE | 0.0 | 0.000 | 43.9 | 0.913 | 43.9 | 0.749 | 14.6 | 1.056 | 14.6 | 0.638 |
| OPHELIMA | 14.6 | 0.044 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIFLEX | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.047 |
| OWENFUSI | 0.0 | 0.000 | 14.6 | 0.037 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PARAFULG | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 14.6 | 0.002 | 29.3 | 0.010 |
| PHOLMINU | 0.0 | 0.000 | 0.0 | 0.000 | 234.1 | 0.044 | 0.0 | 0.000 | 234.1 | 0.031 |
| SCOLARMI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.092 |
| SCOLBONN | 29.3 | 0.180 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLSQUA | 0.0 | 0.000 | 14.6 | 0.044 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SIGAMATH | 14.6 | 0.234 | 14.6 | 0.198 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPIOBOMB | 204.8 | 0.026 | 482.8 | 0.083 | 14.6 | 0.004 | 117.0 | 0.012 | 58.5 | 0.012 |
| SPIOFILI | 0.0 | 0.000 | 43.9 | 0.037 | 58.5 | 0.016 | 0.0 | 0.000 | 0.0 | 0.000 |
| STHELIMI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.031 | 0.0 | 0.000 |
| SYNEKLAT | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 |
| NEMERTIN | 0.0 | 0.000 | 29.3 | 0.279 | 29.3 | 0.006 | 29.3 | 5.260 | 43.9 | 0.019 |
| PHORONID | 43.9 | 0.070 | 453.5 | 0.187 | 43.9 | 0.004 | 599.8 | 0.590 | 117.0 | 0.078 |
| SUMS | 2545.6 | 5.068 | 5530.1 | 5.549 | 3364.9 | 26.118 | 1858.0 | 15.136 | 4052.5 | 45.033 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 38 | | 40 | | 27 | | 24 | | 29 | |
| SH-W | 2.909 | | 2.286 | | 2.023 | | 2.381 | | 2.238 | |
| SIMP | 0.089 | | 0.232 | | 0.221 | | 0.159 | | 0.171 | |

| STATION: | OYS 4 | | OYS 5 | | OYS 6 | | OYS 7 | | OYS 8 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| AMPEBREV | 14.6 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| AMPETENU | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.044 | 14.6 | 0.006 | 0.0 | 0.000 |
| ATYLSWAM | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHELEG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| BATHGUIL | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| CALLSUBT | 0.0 | 0.000 | 102.4 | 4.747 | 29.3 | 0.816 | 14.6 | 0.917 | 102.4 | 8.853 |
| CAPRELLI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 14.6 | 0.003 |
| EUDODEFO | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARPANTE | 0.0 | 0.000 | 14.6 | 0.004 | 29.3 | 0.009 | 73.2 | 0.022 | 14.6 | 0.004 |
| IONETHOR | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 |
| IPHITRIS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| MEGAAGIL | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PERILONG | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PONTALTA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| PSEULONG | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| UPOGDELT | 0.0 | 0.000 | 29.3 | 14.923 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| WESTCAEC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| ACROBRAC | 102.4 | 7.726 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| AMPHFILI | 131.7 | 0.957 | 58.5 | 0.117 | 687.6 | 18.402 | 292.6 | 2.139 | 0.0 | 0.000 |
| BRISLYRI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 3.895 | 0.0 | 0.000 |
| ECHICORD | 14.6 | 0.113 | 14.6 | 0.067 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 |
| ECHIJUVE | 14.6 | 0.002 | 263.3 | 0.026 | 0.0 | 0.000 | 29.3 | 0.003 | 395.0 | 0.079 |
| OPHIALBI | 0.0 | 0.000 | 14.6 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 1.220 |
| OPHIJUVE | 102.4 | 0.021 | 131.7 | 0.026 | 395.0 | 0.079 | 1770.2 | 0.354 | 1199.7 | 0.240 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 687.6 | 0.138 | 58.5 | 0.012 | 14.6 | 0.080 | 14.6 | 0.002 | 73.2 | 0.064 |
| ABRAPRIS | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.244 | 0.0 | 0.000 | 73.2 | 0.006 |
| APLACOPH | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.132 | 0.0 | 0.000 |
| ARCTISLA | 0.0 | 0.000 | 14.6 | 0.015 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 |
| CINGVITR | 0.0 | 0.000 | 73.2 | 0.015 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CORBGIBB | 0.0 | 0.000 | 453.5 | 1.492 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CULTPELL | 117.0 | 0.026 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CYLICYLI | 58.5 | 0.013 | 14.6 | 0.023 | 29.3 | 0.025 | 29.3 | 0.010 | 0.0 | 0.000 |
| ENSIENSI | 14.6 | 5.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LEPTSQUA | 0.0 | 0.000 | 58.5 | 0.051 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MYATRUN | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 | 0.0 | 0.000 |
| MYSEBIDE | 1155.8 | 0.231 | 14.6 | 0.003 | 1448.4 | 0.310 | 131.7 | 0.026 | 351.1 | 0.070 |
| MYSIUNDA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 43.9 | 0.063 | 14.6 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.173 |
| NUCUTURG | 14.6 | 0.048 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 117.0 | 0.516 |
| TELLFABU | 438.9 | 0.500 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| THRAPHAS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 |
| THYAFLEX | 131.7 | 0.503 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| VENUSTRI | 14.6 | 0.021 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| APHRACUL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 |
| CAPITELL | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAUDERIE | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| CHAESETO | 175.6 | 0.042 | 0.0 | 0.000 | 29.3 | 0.025 | 73.2 | 0.019 | 0.0 | 0.000 |
| ETEOLONG | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| EUMISANG | 14.6 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCLAPI | 29.3 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCROUX | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.010 | 0.0 | 0.000 |
| GYPTCAPE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 43.9 | 0.013 |
| HARMLUNU | 14.6 | 0.004 | 14.6 | 0.044 | 0.0 | 0.000 | 43.9 | 0.200 | 0.0 | 0.000 |
| HARMNODO | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 29.3 | 0.026 | 0.0 | 0.000 |
| HETEFILI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.004 |
| LANICONC | 160.9 | 3.242 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.012 |
| LUMBLATR | 0.0 | 0.000 | 14.6 | 0.041 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.132 |
| MAGEALLE | 29.3 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MAGEPAPI | 1111.9 | 0.603 | 0.0 | 0.000 | 102.4 | 0.016 | 0.0 | 0.000 | 0.0 | 0.000 |
| MICRSPEC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| NEPHHOMB | 14.6 | 0.156 | 14.6 | 0.579 | 43.9 | 0.729 | 73.2 | 0.386 | 29.3 | 1.450 |
| NEPHJUVE | 43.9 | 0.010 | 43.9 | 0.042 | 0.0 | 0.000 | 43.9 | 0.025 | 0.0 | 0.000 |
| NOTOLATE | 0.0 | 0.000 | 14.6 | 0.195 | 0.0 | 0.000 | 29.3 | 1.350 | 0.0 | 0.000 |
| OPHEACUM | 0.0 | 0.000 | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.023 |
| OPHIFLEX | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.019 | 0.0 | 0.000 | 14.6 | 0.032 |
| OWENFUSI | 0.0 | 0.000 | 14.6 | 0.152 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PARAGRAC | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| PECTKORE | 58.5 | 0.004 | 43.9 | 0.004 | 0.0 | 0.000 | 14.6 | 0.004 | 29.3 | 0.026 |
| PHOLMINU | 73.2 | 0.016 | 0.0 | 0.000 | 395.0 | 0.078 | 58.5 | 0.010 | 43.9 | 0.016 |
| POLYDORA | 0.0 | 0.000 | 102.4 | 0.026 | 0.0 | 0.000 | 0.0 | 0.000 | 117.0 | 0.032 |
| SCALINFL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 131.7 | 0.067 |
| SCOLARMI | 29.3 | 0.060 | 0.0 | 0.000 | 43.9 | 0.060 | 0.0 | 0.000 | 14.6 | 0.002 |
| SIGAMATH | 29.3 | 0.445 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPHAFLAV | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPHAHYTR | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPIOBOMB | 43.9 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.004 | 292.6 | 0.078 |
| SPIOFILI | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPIOKROE | 0.0 | 0.000 | 14.6 | 0.038 | 0.0 | 0.000 | 14.6 | 0.031 | 0.0 | 0.000 |
| SYNEKLAT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.010 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 58.5 | 0.016 | 0.0 | 0.000 | 87.8 | 0.016 | 73.2 | 2.537 | 336.5 | 0.257 |
| NEMERTIN | 204.8 | 0.171 | 14.6 | 0.102 | 29.3 | 0.010 | 29.3 | 0.151 | 175.6 | 0.196 |
| PHORONID | 131.7 | 0.029 | 73.2 | 0.042 | 117.0 | 0.006 | 29.3 | 0.006 | 0.0 | 0.000 |
| SUMS | 5369.2 | 20.298 | 1770.2 | 22.826 | 3789.2 | 21.029 | 3174.7 | 12.312 | 4008.6 | 13.594 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 38 | | 31 | | 29 | | 33 | | 31 | |
| SH-W | 2.649 | | 2.750 | | 2.163 | | 2.040 | | 2.631 | |
| SIMP | 0.120 | | 0.109 | | 0.204 | | 0.325 | | 0.127 | |

| STATION: | OYS 9 | | OYS 10 | | OYS 11 | | OYS 12 | | OYS 13 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| AMPEBREV | 0.0 | 0.000 | 14.6 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| AMPHIPOD | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ATYLSWAM | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 |
| BATHGUIL | 102.4 | 0.031 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| CALLSUBT | 131.7 | 2.860 | 58.5 | 3.112 | 160.9 | 11.938 | 175.6 | 2.515 | 43.9 | 5.403 |
| EUDODEFO | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 |
| EUDOTRUN | 14.6 | 0.004 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARPANTE | 14.6 | 0.004 | 43.9 | 0.013 | 0.0 | 0.000 | 14.6 | 0.004 | 43.9 | 0.013 |
| IONETHOR | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PONTALTA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| UPOGDELT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 6.131 | 0.0 | 0.000 |
| WESTCAEC | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| AMPHFILI | 87.8 | 1.299 | 1199.7 | 16.585 | 14.6 | 0.369 | 14.6 | 0.070 | 1068.0 | 22.325 |
| BRISLYRI | 0.0 | 0.000 | 14.6 | 4.130 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHICORD | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.075 | 14.6 | 0.803 |
| ECHIJUVE | 907.1 | 0.091 | 14.6 | 0.002 | 58.5 | 0.006 | 58.5 | 0.006 | 0.0 | 0.000 |
| ECHIPUSI | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIALBI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.168 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIJUVE | 131.7 | 0.026 | 263.3 | 0.053 | 658.3 | 0.132 | 117.0 | 0.023 | 921.7 | 0.184 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 14.6 | 0.012 | 190.2 | 0.212 | 43.9 | 0.018 | 0.0 | 0.000 | 833.9 | 0.167 |
| ABRAPRIS | 0.0 | 0.000 | 14.6 | 0.107 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| APLACOPH | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.291 |
| CINGVITR | 0.0 | 0.000 | 0.0 | 0.000 | 365.8 | 1.097 | 29.3 | 0.029 | 0.0 | 0.000 |
| CORBGIBB | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.007 | 14.6 | 0.057 | 0.0 | 0.000 |
| CULTPELL | 58.5 | 0.019 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.655 |
| CYLICYLI | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 | 14.6 | 0.006 | 73.2 | 0.019 |
| MONTFERR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.070 |
| MYSEBIDE | 351.1 | 0.070 | 760.8 | 0.152 | 0.0 | 0.000 | 14.6 | 0.003 | 2033.6 | 0.256 |
| NATIALDE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| NUCUTENU | 0.0 | 0.000 | 43.9 | 0.058 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.048 |
| NUCUTURG | 14.6 | 0.121 | 0.0 | 0.000 | 14.6 | 0.015 | 0.0 | 0.000 | 14.6 | 0.013 |
| TELLFABU | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| THRAPHAS | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 8.197 | 0.0 | 0.000 | 0.0 | 0.000 |
| TORNSUBC | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAIGROE | 0.0 | 0.000 | 14.6 | 0.701 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAISUBU | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| AONIPAUC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 160.9 | 0.029 | 0.0 | 0.000 |
| APHRACUL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 |
| CAPITELL | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAUDERIE | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CHAEVARI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 12.541 | 0.0 | 0.000 |
| DIPLGLAU | 0.0 | 0.000 | 43.9 | 0.061 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ETEOLONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| GATTCIRR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.783 | 0.0 | 0.000 |
| GLYCROUX | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.692 | 14.6 | 0.672 | 0.0 | 0.000 |
| GONIBOBR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 |
| GONIMACU | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GYPTCAPE | 14.6 | 0.004 | 0.0 | 0.000 | 29.3 | 0.016 | 14.6 | 0.006 | 0.0 | 0.000 |
| HARMLONG | 29.3 | 0.023 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 248.7 | 0.650 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LUMBLATR | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.053 | 43.9 | 0.010 | 0.0 | 0.000 |
| MAGEPAPI | 175.6 | 0.113 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHCIRR | 29.3 | 0.026 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHHOMB | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.042 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHJUVE | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHEACUM | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.010 | 14.6 | 0.004 | 0.0 | 0.000 |
| OPHIFLEX | 29.3 | 0.098 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.037 | 0.0 | 0.000 |
| PECTKORE | 58.5 | 0.013 | 0.0 | 0.000 | 43.9 | 0.002 | 204.8 | 0.012 | 0.0 | 0.000 |
| PHOLMINU | 14.6 | 0.004 | 190.2 | 0.031 | 14.6 | 0.006 | 0.0 | 0.000 | 351.1 | 0.038 |
| POLYKINB | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.562 |
| SCOLARMI | 29.3 | 0.037 | 14.6 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SIGAMATH | 43.9 | 0.771 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.290 |
| SPIOBOMB | 117.0 | 0.041 | 219.4 | 0.047 | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPIOFILI | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.002 |
| STHEBOA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| STHELIMI | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SYNEKLAT | 0.0 | 0.000 | 87.8 | 0.016 | 0.0 | 0.000 | 43.9 | 0.018 | 58.5 | 0.010 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 87.8 | 0.174 | 43.9 | 0.016 | 0.0 | 0.000 | 0.0 | 0.000 |
| GOLFELON | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.784 | 0.0 | 0.000 |
| GOLFVULG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.016 | 0.0 | 0.000 |
| NEMERTIN | 87.8 | 0.209 | 0.0 | 0.000 | 43.9 | 0.235 | 14.6 | 0.013 | 87.8 | 0.470 |
| PHORONID | 0.0 | 0.000 | 117.0 | 0.010 | 307.2 | 0.263 | 0.0 | 0.000 | 58.5 | 0.004 |
| PLATHYHE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 |
| SUMS | 2809.0 | 6.554 | 3555.1 | 25.557 | 2048.2 | 23.300 | 1199.7 | 23.855 | 5910.5 | 31.656 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 29 | | 27 | | 26 | | 27 | | 25 | |
| SH-W | 2.535 | | 2.267 | | 2.315 | | 2.795 | | 1.991 | |
| SIMP | 0.143 | | 0.178 | | 0.168 | | 0.089 | | 0.200 | |

# Appendix - 2 Biomonitoring 1995

| **STATION:** | OYS 14 | | OYS 15 | | OYS 16 | | OYS 17 | | OYS 18 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| AMPEBREV | 14.6 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHELEG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.018 | 0.0 | 0.000 |
| BATHGUIL | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.013 | 175.6 | 0.070 | 0.0 | 0.000 |
| CALLSUBT | 29.3 | 1.355 | 58.5 | 2.928 | 102.4 | 7.706 | 146.3 | 4.453 | 0.0 | 0.000 |
| CORYCASS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.164 |
| DIASBRAD | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.012 | 0.0 | 0.000 | 14.6 | 0.007 |
| EUDODEFO | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 102.4 | 0.031 | 0.0 | 0.000 |
| EUDOTRUN | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.018 | 0.0 | 0.000 | 14.6 | 0.004 |
| HARPANTE | 175.6 | 0.053 | 0.0 | 0.000 | 87.8 | 0.026 | 102.4 | 0.031 | 14.6 | 0.004 |
| IONETHOR | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PERILONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 14.6 | 0.004 |
| UPOGDELT | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 3.932 | 0.0 | 0.000 | 0.0 | 0.000 |
| UROTBREV | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 336.5 | 0.135 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| AMPHFILI | 599.8 | 4.932 | 29.3 | 0.088 | 409.6 | 10.662 | 438.9 | 6.667 | 14.6 | 0.164 |
| ECHICORD | 0.0 | 0.000 | 14.6 | 0.119 | 14.6 | 4.294 | 14.6 | 8.622 | 0.0 | 0.000 |
| ECHIJUVE | 438.9 | 0.044 | 263.3 | 0.026 | 58.5 | 0.006 | 0.0 | 0.000 | 526.7 | 0.053 |
| OPHIJUVE | 526.7 | 0.105 | 146.3 | 0.029 | 117.0 | 0.023 | 219.4 | 0.044 | 351.1 | 0.070 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 | 0.0 | 0.000 |
| ABRAPRIS | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.016 | 0.0 | 0.000 | 0.0 | 0.000 |
| ARCTISLA | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CINGVITR | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CORBGIBB | 131.7 | 0.377 | 0.0 | 0.000 | 190.2 | 0.531 | 0.0 | 0.000 | 0.0 | 0.000 |
| CULTPELL | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 87.8 | 0.013 | 0.0 | 0.000 |
| CYLICYLI | 14.6 | 0.003 | 14.6 | 0.019 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MYSEBIDE | 190.2 | 0.038 | 43.9 | 0.009 | 453.5 | 0.091 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 43.9 | 0.012 |
| NUCUTURG | 14.6 | 0.007 | 0.0 | 0.000 | 29.3 | 0.249 | 0.0 | 0.000 | 0.0 | 0.000 |
| TELLFABU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.002 |
| THRACONV | 0.0 | 0.000 | 14.6 | 3.855 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| THRAPHAS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAIGROE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.177 | 0.0 | 0.000 |
| CHAESETO | 29.3 | 0.002 | 14.6 | 0.010 | 0.0 | 0.000 | 146.3 | 0.035 | 0.0 | 0.000 |
| CHAEVARI | 0.0 | 0.000 | 58.5 | 7.726 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ETEOLONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| EXOGHEBE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| GATTCIRR | 0.0 | 0.000 | 29.3 | 1.422 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCLAPI | 14.6 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.019 |
| GLYCROUX | 14.6 | 0.688 | 29.3 | 0.089 | 14.6 | 0.053 | 29.3 | 0.054 | 0.0 | 0.000 |
| GYPTCAPE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| HARMLUNU | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.110 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 29.3 | 0.107 |
| LUMBLATR | 14.6 | 0.114 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MAGEALLE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.095 | 0.0 | 0.000 | 0.0 | 0.000 |
| MAGEPAPI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.016 | 73.2 | 0.038 | 292.6 | 0.367 |
| NEPHCIRR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.026 |
| NEPHHOMB | 29.3 | 0.064 | 14.6 | 1.061 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 14.6 | 0.018 | 0.0 | 0.000 |
| OPHIFLEX | 0.0 | 0.000 | 14.6 | 0.042 | 0.0 | 0.000 | 29.3 | 0.073 | 29.3 | 0.102 |
| OWENFUSI | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.198 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 14.6 | 0.002 | 14.6 | 0.002 | 14.6 | 0.002 | 29.3 | 0.002 | 0.0 | 0.000 |
| PHOLMINU | 73.2 | 0.012 | 0.0 | 0.000 | 117.0 | 0.023 | 87.8 | 0.019 | 14.6 | 0.004 |
| POECSERP | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.031 | 0.0 | 0.000 | 0.0 | 0.000 |
| POLYDORA | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.038 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCALINFL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.019 |
| SCOLARMI | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 1.631 | 29.3 | 0.022 | 0.0 | 0.000 |
| SIGAMATH | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.489 |
| SPIOBOMB | 0.0 | 0.000 | 29.3 | 0.075 | 29.3 | 0.013 | 248.7 | 0.013 | 1755.6 | 0.777 |
| SPIOFILI | 43.9 | 0.004 | 0.0 | 0.000 | 73.2 | 0.018 | 29.3 | 0.010 | 0.0 | 0.000 |
| SPIOKROE | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| STHEBOA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| STHELIMI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 |
| SYNEKLAT | 29.3 | 0.010 | 29.3 | 0.006 | 73.2 | 0.019 | 0.0 | 0.000 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 29.3 | 0.051 | 29.3 | 17.467 | 0.0 | 0.000 | 0.0 | 0.000 |
| CUCUELON | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.108 | 0.0 | 0.000 | 0.0 | 0.000 |
| EDWACLAP | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.399 | 0.0 | 0.000 | 0.0 | 0.000 |
| GOLFVULG | 0.0 | 0.000 | 58.5 | 0.508 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEMERTIN | 58.5 | 0.515 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.022 | 43.9 | 0.010 |
| PHORONID | 14.6 | 0.004 | 0.0 | 0.000 | 146.3 | 0.013 | 73.2 | 0.010 | 29.3 | 0.004 |
| SUMS | 2487.1 | 8.376 | 965.6 | 18.087 | 2384.7 | 47.826 | 2750.4 | 20.633 | 3306.4 | 2.410 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 22 | | 22 | | 34 | | 33 | | 21 | |
| SH-W | 2.261 | | 2.603 | | 2.888 | | 2.955 | | 1.645 | |
| SIMP | 0.150 | | 0.118 | | 0.089 | | 0.073 | | 0.327 | |

| STATION: | OYS 19 | | OYS 20 | | OYS 21 | | OYS 22 | | OYS 23 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| BATHGUIL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 29.3 | 0.009 |
| CALLSUBT | 73.2 | 1.018 | 292.6 | 6.693 | 102.4 | 4.718 | 131.7 | 9.414 | 14.6 | 1.058 |
| DIASBRAD | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 |
| EUDODEFO | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 58.5 | 0.018 |
| EUDOTRUN | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 |
| HARPANTE | 43.9 | 0.013 | 175.6 | 0.053 | 14.6 | 0.004 | 14.6 | 0.004 | 14.6 | 0.004 |
| HIPPDENT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| IONETHOR | 0.0 | 0.000 | 29.3 | 0.013 | 0.0 | 0.000 | 14.6 | 0.029 | 0.0 | 0.000 |
| PONTALTA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| PSEULONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 |
| UPOGDELT | 14.6 | 1.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| UROTBREV | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| AMPHFILI | 424.3 | 4.316 | 58.5 | 0.723 | 482.8 | 3.698 | 321.9 | 2.849 | 321.9 | 9.489 |
| ASTEJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 29.3 | 0.006 |
| ECHICORD | 43.9 | 6.159 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 6.227 |
| ECHIJUVE | 0.0 | 0.000 | 14.6 | 0.002 | 29.3 | 0.003 | 43.9 | 0.004 | 0.0 | 0.000 |
| ECHIPUSI | 0.0 | 0.000 | 204.8 | 0.038 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIALBI | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.484 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIJUVE | 2618.8 | 0.524 | 380.4 | 0.076 | 599.8 | 0.120 | 160.9 | 0.032 | 424.3 | 0.085 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 160.9 | 0.016 | 73.2 | 0.015 | 14.6 | 0.003 | 73.2 | 0.015 | 395.0 | 0.287 |
| ABRAPRIS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.028 |
| ARCTISLA | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CINGVITR | 102.4 | 0.031 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CULTPELL | 73.2 | 0.007 | 117.0 | 0.016 | 0.0 | 0.000 | 14.6 | 0.002 | 14.6 | 0.063 |
| CYLICYLI | 14.6 | 0.010 | 0.0 | 0.000 | 43.9 | 0.045 | 0.0 | 0.000 | 14.6 | 0.002 |
| DOSIEXOL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.970 |
| MACTCORA | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MONTFERR | 73.2 | 0.063 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MYATRUN | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| MYSEBIDE | 87.8 | 0.018 | 14.6 | 0.003 | 424.3 | 0.085 | 263.3 | 0.053 | 2852.9 | 0.571 |
| MYSIUNDA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.004 |
| NATIALDE | 29.3 | 0.006 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| NUCUNUCL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.032 |
| NUCUTENU | 0.0 | 0.000 | 58.5 | 0.135 | 14.6 | 0.003 | 29.3 | 0.018 | 0.0 | 0.000 |
| NUCUTURG | 0.0 | 0.000 | 14.6 | 0.022 | 14.6 | 0.007 | 0.0 | 0.000 | 146.3 | 0.531 |
| TELLFABU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.110 |
| TELLTENU | 14.6 | 0.002 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| THRAPHAS | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.012 |
| THYAFLEX | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| TORNSUBC | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAISUBU | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.012 | 0.0 | 0.000 | 73.2 | 0.007 |
| APHRJUVE | 14.6 | 0.002 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPITELL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| CHAESETO | 0.0 | 0.000 | 43.9 | 0.026 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| CHAEVARI | 43.9 | 21.256 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| EXOGHEBE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| GATTCIRR | 43.9 | 2.570 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCLAPI | 0.0 | 0.000 | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCROUX | 58.5 | 0.960 | 0.0 | 0.000 | 43.9 | 0.533 | 0.0 | 0.000 | 0.0 | 0.000 |
| GONIMACU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.004 |
| GYPTCAPE | 0.0 | 0.000 | 14.6 | 0.025 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLONG | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.031 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLUNU | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.129 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMNODO | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HETEFILI | 29.3 | 0.006 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 0.0 | 0.000 | 73.2 | 0.012 | 58.5 | 0.004 | 0.0 | 0.000 | 43.9 | 0.044 |
| LUMBLATR | 0.0 | 0.000 | 29.3 | 0.019 | 58.5 | 0.133 | 0.0 | 0.000 | 0.0 | 0.000 |
| MAGEPAPI | 0.0 | 0.000 | 190.2 | 0.060 | 0.0 | 0.000 | 117.0 | 0.026 | 643.7 | 0.132 |
| NEPHCAEC | 0.0 | 0.000 | 14.6 | 0.127 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHHOMB | 29.3 | 0.537 | 43.9 | 2.377 | 14.6 | 0.060 | 29.3 | 0.563 | 14.6 | 0.405 |
| NEPHJUVE | 43.9 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 |
| NERELONG | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 1.842 | 0.0 | 0.000 | 0.0 | 0.000 |
| NOTOLATE | 43.9 | 1.072 | 14.6 | 2.824 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHEACUM | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.023 | 0.0 | 0.000 |
| OPHIFLEX | 14.6 | 0.037 | 14.6 | 0.060 | 14.6 | 0.032 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTAURI | 0.0 | 0.000 | 29.3 | 0.012 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 29.3 | 0.007 | 438.9 | 0.025 | 219.4 | 0.092 | 14.6 | 0.002 | 14.6 | 0.002 |
| PHOLMINU | 175.6 | 0.031 | 43.9 | 0.010 | 58.5 | 0.018 | 87.8 | 0.013 | 409.6 | 0.061 |
| POECSERP | 0.0 | 0.000 | 321.9 | 0.149 | 0.0 | 0.000 | 14.6 | 0.035 | 58.5 | 0.026 |
| POLYDORA | 73.2 | 0.025 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLARMI | 0.0 | 0.000 | 29.3 | 0.022 | 0.0 | 0.000 | 14.6 | 0.023 | 29.3 | 0.042 |
| SIGAMATH | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.035 |
| SPIOBOMB | 29.3 | 0.007 | 278.0 | 0.050 | 14.6 | 0.002 | 0.0 | 0.000 | 43.9 | 0.007 |
| SYNEKLAT | 29.3 | 0.007 | 102.4 | 0.023 | 0.0 | 0.000 | 29.3 | 0.006 | 14.6 | 0.002 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 1.902 | 14.6 | 0.006 | 14.6 | 0.300 |
| CUCUELON | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.721 | 0.0 | 0.000 | 0.0 | 0.000 |
| GOLFELON | 43.9 | 7.066 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GOLFVULG | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.530 | 0.0 | 0.000 | 0.0 | 0.000 |
| HYDROZOA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.013 |
| NEMERTIN | 29.3 | 0.010 | 160.9 | 0.110 | 29.3 | 0.013 | 29.3 | 0.102 | 87.8 | 0.351 |
| PHORONID | 14.6 | 0.004 | 43.9 | 0.010 | 87.8 | 0.145 | 14.6 | 0.002 | 0.0 | 0.000 |
| SUMS | 4549.9 | 46.797 | 3540.5 | 13.784 | 2706.5 | 15.419 | 1565.4 | 13.254 | 6276.3 | 20.958 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 33 | | 41 | | 36 | | 28 | | 38 | |
| SH-W | 1.954 | | 3.095 | | 2.673 | | 2.693 | | 2.227 | |
| SIMP | 0.346 | | 0.063 | | 0.118 | | 0.102 | | 0.234 | |

| STATION: | OYS 24 | | OYS 25 | | OYS 26 | | OYS 27 | | OYS 28 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| BATHGUIL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.022 |
| BATHTENU | 87.8 | 0.026 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CALLSUBT | 43.9 | 1.148 | 58.5 | 1.609 | 58.5 | 4.472 | 58.5 | 4.038 | 58.5 | 0.521 |
| EUDOTRUN | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 |
| HARPANTE | 0.0 | 0.000 | 131.7 | 0.040 | 0.0 | 0.000 | 190.2 | 0.057 | 29.3 | 0.009 |
| HIPPDENT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.009 |
| IONETHOR | 0.0 | 0.000 | 14.6 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MEGAAGIL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| MICRMACU | 0.0 | 0.000 | 58.5 | 0.018 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PERILONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| UPOGDELT | 0.0 | 0.000 | 14.6 | 1.346 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| UROTBREV | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| UROTPOSE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 |
| ECHINODERMATA | | | | | | | | | | |
| AMPHFILI | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.022 | 102.4 | 1.655 | 0.0 | 0.000 |
| ECHICORD | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 6.442 | 14.6 | 5.365 | 14.6 | 17.467 |
| ECHIJUVE | 14.6 | 0.002 | 248.7 | 0.025 | 73.2 | 0.007 | 87.8 | 0.009 | 1916.5 | 0.192 |
| OPHIJUVE | 0.0 | 0.000 | 58.5 | 0.012 | 0.0 | 0.000 | 73.2 | 0.015 | 102.4 | 0.021 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 0.0 | 0.000 | 14.6 | 0.097 | 29.3 | 0.003 | 43.9 | 0.009 | 29.3 | 0.004 |
| ABRAJUVE | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ARCTISLA | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CHLAVARI | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CINGVITR | 0.0 | 0.000 | 14.6 | 0.015 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| CORBGIBB | 0.0 | 0.000 | 29.3 | 0.158 | 14.6 | 0.086 | 14.6 | 0.004 | 0.0 | 0.000 |
| CULTPELL | 14.6 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 73.2 | 0.029 |
| EULIALBA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 |
| MONTFERR | 29.3 | 0.004 | 0.0 | 0.000 | 14.6 | 0.032 | 0.0 | 0.000 | 14.6 | 0.007 |
| MYSEBIDE | 0.0 | 0.000 | 14.6 | 0.003 | 29.3 | 0.006 | 43.9 | 0.009 | 87.8 | 0.018 |
| MYSIUNDA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 |
| NATIALDE | 0.0 | 0.000 | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NUCUTURG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.022 |
| TELLFABU | 29.3 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.002 |
| THRAPHAS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 14.6 | 0.066 |
| POLYCHAETA | | | | | | | | | | |
| AONIPAUC | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| CHAESETO | 43.9 | 0.007 | 29.3 | 0.012 | 0.0 | 0.000 | 14.6 | 0.006 | 43.9 | 0.010 |
| CHAEVARI | 0.0 | 0.000 | 73.2 | 14.863 | 14.6 | 0.844 | 0.0 | 0.000 | 0.0 | 0.000 |
| DIPLGLAU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 |
| EXOGHEBE | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GATTCIRR | 0.0 | 0.000 | 73.2 | 2.180 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCLAPI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.022 |
| GLYCROUX | 0.0 | 0.000 | 14.6 | 0.032 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GONIMACU | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 |
| GYPTCAPE | 43.9 | 0.048 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLUNU | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.019 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 0.0 | 0.000 | 0.0 | 0.000 | 117.0 | 0.050 | 0.0 | 0.000 | 0.0 | 0.000 |
| LUMBLATR | 43.9 | 0.195 | 14.6 | 0.042 | 14.6 | 0.048 | 0.0 | 0.000 | 0.0 | 0.000 |
| MAGEALLE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.132 | 0.0 | 0.000 |
| MAGEPAPI | 146.3 | 0.083 | 29.3 | 0.007 | 0.0 | 0.000 | 234.1 | 0.098 | 1141.1 | 1.194 |
| NEPHCIRR | 0.0 | 0.000 | 58.5 | 0.224 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHHOMB | 58.5 | 0.092 | 0.0 | 0.000 | 43.9 | 0.110 | 29.3 | 1.093 | 0.0 | 0.000 |
| NEPHJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| NOTOLATE | 0.0 | 0.000 | 14.6 | 0.073 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHEACUM | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.047 | 0.0 | 0.000 |
| OPHELIMA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIFLEX | 14.6 | 0.104 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OWENFUSI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 1.046 | 0.0 | 0.000 | 0.0 | 0.000 |
| PARAGRAC | 0.0 | 0.000 | 43.9 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| PHOLMINU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.013 | 73.2 | 0.012 |
| POECSERP | 14.6 | 0.054 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.026 | 0.0 | 0.000 |
| SCALINFL | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLARMI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 204.8 | 0.126 | 14.6 | 0.114 |
| SCOLBONN | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.089 | 0.0 | 0.000 |
| SIGAMATH | 14.6 | 0.079 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.508 | 14.6 | 0.023 |
| SPIOBOMB | 365.8 | 0.072 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 234.1 | 0.073 |
| SPIOFILI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 |
| STHELIMI | 14.6 | 0.007 | 0.0 | 0.000 | 14.6 | 0.101 | 0.0 | 0.000 | 0.0 | 0.000 |
| SYNEKLAT | 0.0 | 0.000 | 43.9 | 0.007 | 0.0 | 0.000 | 73.2 | 0.007 | 29.3 | 0.010 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.010 | 0.0 | 0.000 |
| ARCHIANN | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CUCUELON | 0.0 | 0.000 | 14.6 | 0.198 | 14.6 | 0.145 | 0.0 | 0.000 | 0.0 | 0.000 |
| GOLFELON | 0.0 | 0.000 | 43.9 | 1.593 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GOLFVULG | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.633 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEMERTIN | 43.9 | 0.045 | 0.0 | 0.000 | 14.6 | 0.022 | 14.6 | 0.004 | 278.0 | 0.151 |
| PHORONID | 29.3 | 0.038 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.023 | 73.2 | 0.006 |
| SUMS | 1068.0 | 2.023 | 1228.9 | 22.612 | 687.6 | 14.108 | 1550.8 | 13.377 | 4535.3 | 20.043 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 19 | | 29 | | 23 | | 31 | | 32 | |
| SH-W | 2.367 | | 2.966 | | 2.848 | | 2.931 | | 2.019 | |
| SIMP | 0.157 | | 0.076 | | 0.075 | | 0.076 | | 0.251 | |

| STATION: | OYS 29 | | OYS 30 | | OYS 31 | | OYS 32 | | OYS 33 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| AMPETENU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.012 |
| BATHGUIL | 14.6 | 0.004 | 14.6 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| CALLSUBT | 0.0 | 0.000 | 58.5 | 1.399 | 160.9 | 4.986 | 117.0 | 6.636 | 73.2 | 4.850 |
| CORYCASS | 87.8 | 0.135 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.044 |
| DIASBRAD | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.037 | 0.0 | 0.000 | 0.0 | 0.000 |
| EUDOTRUN | 14.6 | 0.003 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARPANTE | 58.5 | 0.018 | 0.0 | 0.000 | 58.5 | 0.018 | 87.8 | 0.026 | 43.9 | 0.013 |
| PERILONG | 14.6 | 0.004 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 14.6 | 0.004 |
| PSEULONG | 29.3 | 0.006 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| UPOGDELT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 1.293 |
| ECHINODERMATA | | | | | | | | | | |
| ACROBRAC | 43.9 | 0.780 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| AMPHFILI | 175.6 | 4.328 | 0.0 | 0.000 | 204.8 | 5.611 | 102.4 | 3.658 | 1243.6 | 8.655 |
| ASTRIRRE | 14.6 | 4.256 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHICORD | 0.0 | 0.000 | 14.6 | 4.944 | 0.0 | 0.000 | 43.9 | 5.337 | 0.0 | 0.000 |
| ECHIJUVE | 0.0 | 0.000 | 43.9 | 0.004 | 43.9 | 0.004 | 131.7 | 0.013 | 278.0 | 0.028 |
| OPHIJUVE | 614.5 | 0.123 | 0.0 | 0.000 | 87.8 | 0.018 | 570.6 | 0.114 | 0.0 | 0.000 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 585.2 | 0.230 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| ARCTISLA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 9.141 |
| CINGVITR | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.015 | 863.2 | 0.173 | 0.0 | 0.000 |
| CORBGIBB | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.190 | 0.0 | 0.000 |
| CULTPELL | 43.9 | 0.007 | 29.3 | 0.016 | 87.8 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| CYLICYLI | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.322 | 29.3 | 0.023 |
| MONTFERR | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| MYSEBIDE | 3335.6 | 0.667 | 43.9 | 0.009 | 365.8 | 0.073 | 219.4 | 0.044 | 204.8 | 0.041 |
| MYSIUNDA | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 43.9 | 0.025 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.350 | 0.0 | 0.000 |
| NUCUTENU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.012 | 0.0 | 0.000 |
| NUCUTURG | 117.0 | 0.856 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| TELLFABU | 160.9 | 0.044 | 29.3 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| THRAPHAS | 29.3 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| THYAFLEX | 117.0 | 0.252 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.009 | 0.0 | 0.000 |
| VENUSTRI | 0.0 | 0.000 | 14.6 | 2.774 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAISUBU | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPITELL | 0.0 | 0.000 | 43.9 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAUDERIE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| CHAESETO | 14.6 | 0.006 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CHAEVARI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.778 |
| DIPLGLAU | 29.3 | 0.023 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GATTCIRR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 1.007 |
| GLYCLAPI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.054 | 0.0 | 0.000 |
| GLYCROUX | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.200 | 0.0 | 0.000 |
| GONIMACU | 14.6 | 0.004 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GYPTCAPE | 0.0 | 0.000 | 29.3 | 0.025 | 0.0 | 0.000 | 14.6 | 0.012 | 14.6 | 0.006 |
| HARMLUNU | 0.0 | 0.000 | 14.6 | 0.048 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 0.0 | 0.000 | 58.5 | 2.117 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LUMBLATR | 0.0 | 0.000 | 29.3 | 0.199 | 43.9 | 0.072 | 43.9 | 0.129 | 0.0 | 0.000 |
| MAGEALLE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.104 |
| MAGEPAPI | 204.8 | 0.050 | 29.3 | 0.007 | 14.6 | 0.006 | 14.6 | 0.002 | 0.0 | 0.000 |
| NEPHHOMB | 29.3 | 0.097 | 43.9 | 1.127 | 14.6 | 0.749 | 14.6 | 1.274 | 14.6 | 0.058 |
| NEPHJUVE | 29.3 | 0.007 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NOTOLATE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.569 | 0.0 | 0.000 |
| OPHELIMA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.149 |
| OPHIFLEX | 14.6 | 0.038 | 14.6 | 0.066 | 14.6 | 0.035 | 0.0 | 0.000 | 29.3 | 0.278 |
| PARAGRAC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| PECTJUVE | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 0.0 | 0.000 | 117.0 | 0.006 | 14.6 | 0.002 | 87.8 | 0.023 |
| PHOLMINU | 58.5 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.007 | 131.7 | 0.018 |
| POECSERP | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCALINFL | 0.0 | 0.000 | 29.3 | 0.007 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| SCOLARMI | 14.6 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SIGAMATH | 58.5 | 0.252 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPIOBOMB | 175.6 | 0.050 | 468.2 | 0.133 | 0.0 | 0.000 | 29.3 | 0.004 | 0.0 | 0.000 |
| SPIOFILI | 14.6 | 0.002 | 0.0 | 0.000 | 175.6 | 0.025 | 29.3 | 0.006 | 175.6 | 0.042 |
| SYNEKLAT | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 43.9 | 0.007 | 29.3 | 0.010 |
| MISCELLANEOUS | | | | | | | | | | |
| GOLFVULG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 1.093 |
| NEMERTIN | 29.3 | 0.004 | 0.0 | 0.000 | 14.6 | 0.004 | 29.3 | 0.016 | 43.9 | 0.029 |
| OLIGOCHA | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PHORONID | 87.8 | 0.035 | 102.4 | 0.167 | 43.9 | 0.054 | 29.3 | 0.006 | 43.9 | 0.013 |
| SUMS | 6334.8 | 12.348 | 1243.6 | 13.087 | 1594.7 | 11.745 | 2852.9 | 19.180 | 2677.3 | 27.720 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 35 | | 26 | | 23 | | 29 | | 27 | |
| SH-W | 2.014 | | 2.562 | | 2.582 | | 2.504 | | 2.158 | |
| SIMP | 0.300 | | 0.163 | | 0.107 | | 0.148 | | 0.243 | |

| **STATION:** | OYS 34 | | OYS 35 | | OYS 36 | | OYS 37 | | OYS 38 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| APHEJURI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 |
| BATHELEG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 |
| BATHGUIL | 0.0 | 0.000 | 58.5 | 0.018 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 |
| BATHJUVE | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CALLSUBT | 204.8 | 8.207 | 29.3 | 4.067 | 73.2 | 2.970 | 175.6 | 2.592 | 0.0 | 0.000 |
| CORYCASS | 14.6 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.086 | 0.0 | 0.000 |
| DIASBRAD | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| EUDOTRUN | 0.0 | 0.000 | 29.3 | 0.006 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARPANTE | 175.6 | 0.053 | 146.3 | 0.044 | 14.6 | 0.004 | 102.4 | 0.031 | 0.0 | 0.000 |
| IONETHOR | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| PERILONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.018 |
| PONTALTA | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PSEULONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 |
| UPOGDELT | 14.6 | 3.906 | 0.0 | 0.000 | 29.3 | 10.172 | 14.6 | 4.859 | 0.0 | 0.000 |
| UROTELEG | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| AMPHFILI | 0.0 | 0.000 | 424.3 | 6.355 | 102.4 | 1.495 | 380.4 | 3.552 | 0.0 | 0.000 |
| BRISLYRI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 7.783 | 0.0 | 0.000 |
| ECHICORD | 0.0 | 0.000 | 14.6 | 10.327 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 14.895 |
| ECHIJUVE | 424.3 | 0.042 | 43.9 | 0.004 | 0.0 | 0.000 | 117.0 | 0.012 | 131.7 | 0.013 |
| OPHIJUVE | 321.9 | 0.064 | 117.0 | 0.023 | 117.0 | 0.023 | 1155.8 | 0.231 | 0.0 | 0.000 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 117.0 | 0.031 | 29.3 | 0.019 | 102.4 | 0.021 | 0.0 | 0.000 | 0.0 | 0.000 |
| CINGVITR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| CORBGIBB | 0.0 | 0.000 | 14.6 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CULTPELL | 14.6 | 0.002 | 160.9 | 0.021 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.028 |
| CYLICYLI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.037 | 0.0 | 0.000 |
| MONTFERR | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 14.6 | 0.007 | 73.2 | 0.056 |
| MYSEBIDE | 175.6 | 0.035 | 1126.5 | 0.225 | 87.8 | 0.018 | 87.8 | 0.018 | 58.5 | 0.012 |
| MYSIUNDA | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 29.3 | 0.016 | 29.3 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.156 |
| NUCUTURG | 29.3 | 0.060 | 29.3 | 0.290 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.173 |
| TELLFABU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 102.4 | 0.021 |
| THRAPHAS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| POLYCHAETA | | | | | | | | | | |
| ANAIMUCO | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.433 | 0.0 | 0.000 | 0.0 | 0.000 |
| APHRJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| ARICJEFF | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| CAPITELL | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 |
| CHAESETO | 0.0 | 0.000 | 29.3 | 0.016 | 0.0 | 0.000 | 14.6 | 0.016 | 87.8 | 0.026 |
| CHAEVARI | 0.0 | 0.000 | 14.6 | 0.740 | 14.6 | 2.974 | 87.8 | 17.342 | 0.0 | 0.000 |
| ETEOLONG | 0.0 | 0.000 | 14.6 | 0.073 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GATTCIRR | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 1.734 | 73.2 | 2.086 | 0.0 | 0.000 |
| GLYCJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| GLYCROUX | 14.6 | 0.107 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.471 | 0.0 | 0.000 |
| GONIMACU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| GYPTCAPE | 29.3 | 0.006 | 14.6 | 0.010 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLONG | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.133 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLUNU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 |
| HARMNODO | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 0.0 | 0.000 | 14.6 | 0.284 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.004 |
| LUMBLATR | 117.0 | 0.489 | 0.0 | 0.000 | 14.6 | 0.098 | 87.8 | 0.104 | 0.0 | 0.000 |
| MAGEPAPI | 0.0 | 0.000 | 321.9 | 0.198 | 0.0 | 0.000 | 0.0 | 0.000 | 673.0 | 0.290 |
| NEPHCIRR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.042 |
| NEPHHOMB | 14.6 | 2.015 | 14.6 | 0.633 | 58.5 | 2.987 | 0.0 | 0.000 | 14.6 | 0.044 |
| NEPHJUVE | 73.2 | 0.022 | 29.3 | 0.023 | 0.0 | 0.000 | 29.3 | 0.022 | 29.3 | 0.006 |
| NOTOLATE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.369 | 14.6 | 0.557 | 0.0 | 0.000 |
| OPHEACUM | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHELIMA | 14.6 | 0.091 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIFLEX | 29.3 | 0.066 | 14.6 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OWENFUSI | 14.6 | 0.129 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PARAGRAC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.006 | 0.0 | 0.000 |
| PECTKORE | 14.6 | 0.002 | 58.5 | 0.002 | 0.0 | 0.000 | 73.2 | 0.006 | 43.9 | 0.004 |
| PHOLMINU | 14.6 | 0.006 | 73.2 | 0.010 | 14.6 | 0.004 | 58.5 | 0.263 | 87.8 | 0.018 |
| POECSERP | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| POLYDORA | 58.5 | 0.018 | 0.0 | 0.000 | 87.8 | 0.023 | 351.1 | 0.089 | 0.0 | 0.000 |
| SCOLARMI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.366 |
| SIGAJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.010 |
| SIGAMATH | 0.0 | 0.000 | 29.3 | 1.118 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.247 |
| SPIOBOMB | 29.3 | 0.004 | 14.6 | 0.037 | 0.0 | 0.000 | 0.0 | 0.000 | 438.9 | 0.095 |
| SPIOFILI | 0.0 | 0.000 | 58.5 | 0.018 | 0.0 | 0.000 | 117.0 | 0.023 | 0.0 | 0.000 |
| STHELIMI | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SYNEKLAT | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| CUCUELON | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.060 | 0.0 | 0.000 | 0.0 | 0.000 |
| GOLFELON | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.320 | 0.0 | 0.000 |
| GOLFVULG | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 160.9 | 0.505 | 0.0 | 0.000 |
| NEMERTIN | 58.5 | 1.106 | 14.6 | 0.006 | 0.0 | 0.000 | 87.8 | 0.037 | 29.3 | 0.022 |
| PHORONID | 760.8 | 0.176 | 234.1 | 0.241 | 482.8 | 0.104 | 73.2 | 0.032 | 0.0 | 0.000 |
| SUMS | 2852.8 | 16.699 | 3321.0 | 24.895 | 1389.9 | 23.647 | 3642.9 | 41.125 | 2340.8 | 16.583 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 30 | | 36 | | 23 | | 35 | | 29 | |
| SH-W | 2.563 | | 2.551 | | 2.450 | | 2.697 | | 2.620 | |
| SIMP | 0.124 | | 0.154 | | 0.154 | | 0.133 | | 0.133 | |

| STATION: | OYS 39 | | OYS 40 | | OYS 41 | | OYS 42 | | OFF 1 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ARGIHAMA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.004 |
| BATHELEG | 0.0 | 0.000 | 87.8 | 0.026 | 0.0 | 0.000 | 73.2 | 0.022 | 0.0 | 0.000 |
| BATHGUIL | 58.5 | 0.023 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 14.6 | 0.004 |
| BATHJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 | 0.0 | 0.000 |
| BATHTENU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| CALLSUBT | 0.0 | 0.000 | 102.4 | 3.480 | 14.6 | 0.452 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPRELLI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 |
| CORYCASS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.026 | 0.0 | 0.000 |
| DIASBRAD | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.029 | 14.6 | 0.007 |
| EUDODEFO | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARPANTE | 14.6 | 0.004 | 87.8 | 0.026 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HIPPDENT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| IONETHOR | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 |
| PERILONG | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PONTALTA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.013 | 0.0 | 0.000 |
| PSEULONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.012 | 0.0 | 0.000 |
| PSEUSIMI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 |
| UROTPOSE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.013 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| AMPHFILI | 746.1 | 11.284 | 658.3 | 16.121 | 321.9 | 4.987 | 29.3 | 0.132 | 0.0 | 0.000 |
| ASTEJUVE | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 87.8 | 0.018 | 0.0 | 0.000 |
| ASTRIRRE | 14.6 | 3.069 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHICORD | 14.6 | 3.855 | 14.6 | 6.120 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 7.998 |
| ECHIJUVE | 716.9 | 0.072 | 87.8 | 0.009 | 0.0 | 0.000 | 482.8 | 0.048 | 2487.1 | 0.249 |
| OPHIJUVE | 73.2 | 0.015 | 131.7 | 0.026 | 1053.4 | 0.211 | 204.8 | 0.041 | 43.9 | 0.009 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 102.4 | 0.021 | 29.3 | 0.004 | 336.5 | 0.034 | 0.0 | 0.000 | 29.3 | 0.061 |
| ABRAPRIS | 0.0 | 0.000 | 0.0 | 0.000 | 204.8 | 0.244 | 0.0 | 0.000 | 0.0 | 0.000 |
| ARCTISLA | 0.0 | 0.000 | 29.3 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CORBGIBB | 0.0 | 0.000 | 58.5 | 0.034 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CULTPELL | 14.6 | 0.002 | 0.0 | 0.000 | 43.9 | 0.013 | 0.0 | 0.000 | 14.6 | 0.002 |
| CYLICYLI | 14.6 | 0.010 | 0.0 | 0.000 | 43.9 | 0.162 | 29.3 | 0.048 | 0.0 | 0.000 |
| DOSILUPI | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 4.017 | 0.0 | 0.000 | 0.0 | 0.000 |
| ENSISILI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 35.583 |
| ENSISPEC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 2.092 |
| EULIALBA | 0.0 | 0.000 | 14.6 | 0.015 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LUCIBORE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 1.699 | 0.0 | 0.000 | 0.0 | 0.000 |
| MONTFERR | 58.5 | 0.057 | 0.0 | 0.000 | 29.3 | 0.053 | 0.0 | 0.000 | 102.4 | 0.072 |
| MYATRUN | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| MYSEBIDE | 263.3 | 0.051 | 482.8 | 0.101 | 819.3 | 0.164 | 0.0 | 0.000 | 29.3 | 0.006 |
| MYSIUNDA | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 0.0 | 0.000 | 14.6 | 0.013 | 43.9 | 0.023 | 58.5 | 0.083 | 43.9 | 0.018 |
| NUCUTENU | 14.6 | 0.028 | 43.9 | 0.044 | 14.6 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| NUCUTURG | 0.0 | 0.000 | 29.3 | 0.274 | 43.9 | 0.255 | 0.0 | 0.000 | 14.6 | 0.012 |
| SPISSUBT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.029 |
| TELLFABU | 0.0 | 0.000 | 0.0 | 0.000 | 278.0 | 0.512 | 73.2 | 0.035 | 438.9 | 0.151 |
| THRAPHAS | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 29.3 | 0.010 | 29.3 | 0.152 |
| THYAFLEX | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.089 | 0.0 | 0.000 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAIGROE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 73.2 | 0.026 |
| ANAIJUVE | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAIMACU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.016 | 0.0 | 0.000 |
| ARICMINU | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CHAESETO | 0.0 | 0.000 | 58.5 | 0.016 | 0.0 | 0.000 | 29.3 | 0.012 | 14.6 | 0.016 |
| DIPLGLAU | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.380 | 0.0 | 0.000 | 0.0 | 0.000 |
| ETEOLONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.004 | 541.3 | 0.025 |
| EUMISANG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 146.3 | 0.058 | 0.0 | 0.000 |
| GLYCLAPI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| GLYCROUX | 0.0 | 0.000 | 14.6 | 0.079 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GONIBOBR | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| GONIMACU | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| GYPTCAPE | 0.0 | 0.000 | 14.6 | 0.002 | 14.6 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLUNU | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 0.0 | 0.000 | 907.1 | 3.325 | 58.5 | 0.012 | 424.3 | 1.663 | 175.6 | 0.032 |
| MAGEPAPI | 58.5 | 0.022 | 87.8 | 0.010 | 643.7 | 0.249 | 1360.6 | 1.526 | 2706.6 | 3.722 |
| NEPHCAEC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.180 |
| NEPHCIRR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.032 | 0.0 | 0.000 |
| NEPHHOMB | 14.6 | 0.031 | 14.6 | 0.029 | 43.9 | 0.666 | 14.6 | 0.979 | 0.0 | 0.000 |
| NEPHJUVE | 43.9 | 0.010 | 0.0 | 0.000 | 58.5 | 0.013 | 0.0 | 0.000 | 117.0 | 0.018 |
| OPHIFLEX | 0.0 | 0.000 | 14.6 | 0.041 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTAURI | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 58.5 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| PHOLMINU | 175.6 | 0.016 | 351.1 | 0.007 | 160.9 | 0.023 | 0.0 | 0.000 | 14.6 | 0.004 |
| POECSERP | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| SCALINFL | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.073 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLSQUA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.026 | 0.0 | 0.000 |
| SIGAMATH | 14.6 | 0.012 | 0.0 | 0.000 | 14.6 | 0.399 | 0.0 | 0.000 | 58.5 | 1.229 |
| SPIOBOMB | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 3218.6 | 1.495 | 7124.8 | 3.046 |
| SPIOFILI | 0.0 | 0.000 | 43.9 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.047 |
| SYNEKLAT | 14.6 | 0.002 | 87.8 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.016 | 14.6 | 0.016 | 43.9 | 4.052 |
| NEMERTIN | 0.0 | 0.000 | 14.6 | 0.012 | 29.3 | 0.016 | 833.9 | 0.127 | 409.6 | 0.241 |
| PHORONID | 117.0 | 0.019 | 160.9 | 0.032 | 131.7 | 0.025 | 0.0 | 0.000 | 0.0 | 0.000 |
| SUMS | 2545.6 | 18.602 | 3847.7 | 29.905 | 4725.5 | 14.860 | 7519.8 | 6.522 | 14805.6 | 59.100 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 20 | | 36 | | 36 | | 32 | | 35 | |
| SH-W | 2.106 | | 2.673 | | 2.614 | | 2.019 | | 1.701 | |
| SIMP | 0.187 | | 0.116 | | 0.116 | | 0.237 | | 0.297 | |

## Appendix - 2 Biomonitoring 1995

| **STATION:** | OFF 2 | | OFF 3 | | OFF 4 | | OFF 5 | | OFF 6 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ATYLFALC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| ATYLSWAM | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHELEG | 58.5 | 0.018 | 14.6 | 0.004 | 14.6 | 0.009 | 29.3 | 0.009 | 0.0 | 0.000 |
| BATHGUIL | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.022 | 14.6 | 0.004 | 14.6 | 0.009 |
| CAPRELLI | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 |
| CORYCASS | 14.6 | 0.006 | 29.3 | 0.078 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| DIASBRAD | 58.5 | 0.023 | 43.9 | 0.044 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| GAMMAROP | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| IONETHOR | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| IPHITRIS | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 |
| LEUCINCI | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 |
| MEGAAGIL | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| PERILONG | 0.0 | 0.000 | 58.5 | 0.018 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| PSEULONG | 117.0 | 0.023 | 43.9 | 0.009 | 29.3 | 0.006 | 29.3 | 0.006 | 14.6 | 0.003 |
| PSEUSIMI | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 |
| SYNCMACU | 43.9 | 0.013 | 29.3 | 0.009 | 43.9 | 0.013 | 14.6 | 0.004 | 0.0 | 0.000 |
| UROTPOSE | 497.4 | 0.149 | 14.6 | 0.004 | 0.0 | 0.000 | 87.8 | 0.026 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| ASTEJUVE | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHICORD | 14.6 | 9.881 | 29.3 | 9.417 | 14.6 | 4.944 | 14.6 | 4.764 | 0.0 | 0.000 |
| ECHIJUVE | 321.9 | 0.032 | 365.8 | 0.037 | 9582.7 | 0.958 | 87.8 | 0.009 | 160.9 | 0.016 |
| ECHIPUSI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.037 |
| OPHIJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.015 | 0.0 | 0.000 | 43.9 | 0.009 |
| OPHITEXT | 14.6 | 2.818 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MOLLUSCA | | | | | | | | | | |
| CORBGIBB | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.114 | 0.0 | 0.000 | 0.0 | 0.000 |
| CULTPELL | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 102.4 | 0.013 | 14.6 | 0.002 |
| ENSISPEC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 4.980 |
| MONTFERR | 146.3 | 0.035 | 117.0 | 0.022 | 146.3 | 0.040 | 58.5 | 0.012 | 0.0 | 0.000 |
| MYSEBIDE | 14.6 | 0.003 | 0.0 | 0.000 | 58.5 | 0.013 | 58.5 | 0.012 | 0.0 | 0.000 |
| MYSIUNDA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 0.0 | 0.000 | 0.0 | 0.000 | 102.4 | 0.091 | 29.3 | 0.276 | 14.6 | 0.003 |
| NUCUTURG | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.186 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPISSUBT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| TELLFABU | 234.1 | 3.270 | 146.3 | 0.256 | 204.8 | 0.215 | 424.3 | 0.348 | 0.0 | 0.000 |
| TELLPYGM | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.015 |
| THRAPHAS | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| VENUSTRI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAIJUVE | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAIMACU | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAISUBU | 0.0 | 0.000 | 29.3 | 0.004 | 14.6 | 0.002 | 0.0 | 0.000 | 14.6 | 0.006 |
| AONIPAUC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 |
| ARICMINU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| CAPICAPI | 14.6 | 0.002 | 102.4 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CHAESETO | 0.0 | 0.000 | 29.3 | 0.022 | 0.0 | 0.000 | 1038.7 | 0.260 | 0.0 | 0.000 |
| ETEOLONG | 0.0 | 0.000 | 58.5 | 0.004 | 14.6 | 0.002 | 58.5 | 0.019 | 43.9 | 0.006 |
| EUMISANG | 0.0 | 0.000 | 58.5 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCLAPI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.107 | 0.0 | 0.000 |
| GYPTCAPE | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| HARMLUNU | 14.6 | 0.029 | 14.6 | 0.019 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.029 |
| HESIAUGE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.002 |
| LANICONC | 673.0 | 2.758 | 1375.2 | 1.725 | 248.7 | 0.083 | 219.4 | 0.041 | 14.6 | 0.010 |
| MAGEPAPI | 7329.6 | 9.125 | 4330.5 | 4.581 | 160.9 | 0.133 | 438.9 | 0.435 | 43.9 | 0.060 |
| NEPHCAEC | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.579 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHCIRR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.470 |
| NEPHHOMB | 29.3 | 2.569 | 102.4 | 3.047 | 0.0 | 0.000 | 14.6 | 0.572 | 0.0 | 0.000 |
| NEPHJUVE | 14.6 | 0.007 | 43.9 | 0.006 | 58.5 | 0.007 | 190.2 | 0.016 | 102.4 | 0.007 |
| NOTOLATE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 1.617 | 0.0 | 0.000 |
| OPHELIMA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 |
| OWENFUSI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| PECTKORE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.004 | 0.0 | 0.000 |
| PHOLMINU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.002 | 0.0 | 0.000 |
| POECSERP | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLARMI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.002 | 0.0 | 0.000 |
| SIGAMATH | 146.3 | 3.432 | 29.3 | 0.451 | 29.3 | 0.006 | 14.6 | 0.433 | 0.0 | 0.000 |
| SPIOBOMB | 365.8 | 0.161 | 2501.7 | 1.181 | 658.3 | 0.230 | 482.8 | 0.149 | 409.6 | 0.246 |
| SPIOFILI | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 102.4 | 0.058 |
| STREWEBS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 29.3 | 0.010 | 29.3 | 1.301 | 58.5 | 29.901 | 0.0 | 0.000 | 0.0 | 0.000 |
| HYDROZOA | 58.5 | 0.183 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEMERTIN | 73.2 | 0.424 | 43.9 | 0.061 | 29.3 | 0.080 | 29.3 | 0.006 | 58.5 | 0.132 |
| PHORONID | 0.0 | 0.000 | 14.6 | 0.010 | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 |
| SUMS | 10343.4 | 34.983 | 9758.2 | 22.359 | 11938.1 | 37.709 | 3642.9 | 9.163 | 1302.1 | 6.126 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 25 | | 33 | | 35 | | 31 | | 26 | |
| SH-W | 1.328 | | 1.739 | | 1.045 | | 2.487 | | 2.571 | |
| SIMP | 0.512 | | 0.285 | | 0.649 | | 0.136 | | 0.136 | |

| STATION: | OFF 7 | | OFF 8 | | OFF 9 | | OFF 10 | | OFF 11 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ACIDOBES | 0.0 | 0.000 | 14.6 | 0.015 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHELEG | 14.6 | 0.004 | 526.7 | 0.158 | 190.2 | 0.057 | 219.4 | 0.066 | 234.1 | 0.070 |
| BATHGUIL | 43.9 | 0.013 | 14.6 | 0.012 | 190.2 | 0.057 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.015 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHTENU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 |
| BODOAREN | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 |
| DIASBRAD | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LEUCINCI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| MEGAAGIL | 14.6 | 0.004 | 14.6 | 0.004 | 14.6 | 0.004 | 43.9 | 0.013 | 14.6 | 0.004 |
| PERILONG | 14.6 | 0.004 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| PONTALTA | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 |
| PSEULONG | 0.0 | 0.000 | 29.3 | 0.006 | 248.7 | 0.050 | 14.6 | 0.003 | 58.5 | 0.012 |
| PSEUSIMI | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| SYNCMACU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| UROTPOSE | 307.2 | 0.092 | 219.4 | 0.066 | 14.6 | 0.004 | 43.9 | 0.013 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| ACROBRAC | 0.0 | 0.000 | 14.6 | 0.310 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHICORD | 14.6 | 6.120 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHIJUVE | 14.6 | 0.002 | 29.3 | 0.003 | 219.4 | 0.022 | 965.6 | 0.097 | 2501.7 | 0.250 |
| ECHIPUSI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 |
| OPHIJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 | 14.6 | 0.003 | 0.0 | 0.000 |
| MOLLUSCA | | | | | | | | | | |
| DONAVITT | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.162 | 0.0 | 0.000 | 0.0 | 0.000 |
| ENSIENSI | 0.0 | 0.000 | 14.6 | 9.924 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MACTJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 |
| MONTFERR | 160.9 | 0.094 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.021 | 0.0 | 0.000 | 29.3 | 0.092 |
| NUCUTURG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.189 |
| TELLFABU | 146.3 | 0.461 | 190.2 | 1.248 | 43.9 | 0.013 | 14.6 | 0.002 | 14.6 | 0.002 |
| POLYCHAETA | | | | | | | | | | |
| ARICMINU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.006 | 14.6 | 0.002 |
| CHAESETO | 117.0 | 0.119 | 14.6 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| EXOGHEBE | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCROUX | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.031 |
| GONIMACU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.019 |
| LANICONC | 73.2 | 0.083 | 0.0 | 0.000 | 43.9 | 0.007 | 0.0 | 0.000 | 14.6 | 0.004 |
| MAGEPAPI | 248.7 | 0.215 | 131.7 | 0.265 | 512.0 | 0.364 | 58.5 | 0.237 | 292.6 | 0.176 |
| NEPHCIRR | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.075 | 87.8 | 0.530 | 29.3 | 0.026 |
| NEPHJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLARMI | 14.6 | 0.060 | 0.0 | 0.000 | 14.6 | 0.127 | 29.3 | 0.164 | 0.0 | 0.000 |
| SCOLBONN | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| SPIOBOMB | 731.5 | 0.433 | 175.6 | 0.023 | 599.8 | 0.260 | 395.0 | 0.320 | 307.2 | 0.022 |
| SPIOFILI | 0.0 | 0.000 | 0.0 | 0.000 | 278.0 | 0.070 | 14.6 | 0.004 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 14.6 | 5.450 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEMERTIN | 0.0 | 0.000 | 29.3 | 0.010 | 0.0 | 0.000 | 29.3 | 0.199 | 0.0 | 0.000 |
| SUMS | 1931.2 | 7.706 | 1463.0 | 17.511 | 2662.7 | 1.337 | 2018.9 | 1.668 | 3672.1 | 0.929 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 15 | | 17 | | 20 | | 17 | | 19 | |
| SH-W | 1.966 | | 2.038 | | 2.367 | | 1.774 | | 1.303 | |
| SIMP | 0.204 | | 0.193 | | 0.127 | | 0.283 | | 0.482 | |

| STATION: | OFF 12 | | OFF 13 | | OFF 14 | | OFF 15 | | OFF 16 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| BATHELEG | 117.0 | 0.035 | 87.8 | 0.026 | 131.7 | 0.040 | 87.8 | 0.026 | 219.4 | 0.066 |
| BATHGUIL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 |
| CORYCASS | 0.0 | 0.000 | 14.6 | 0.025 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MEGAAGIL | 14.6 | 0.004 | 14.6 | 0.004 | 14.6 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 |
| PONTALTA | 14.6 | 0.004 | 29.3 | 0.009 | 29.3 | 0.009 | 29.3 | 0.009 | 29.3 | 0.009 |
| PSEULONG | 102.4 | 0.021 | 73.2 | 0.015 | 29.3 | 0.006 | 43.9 | 0.009 | 29.3 | 0.006 |
| PSEUSIMI | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| UROTBREV | 0.0 | 0.000 | 29.3 | 0.009 | 29.3 | 0.009 | 117.0 | 0.035 | 14.6 | 0.004 |
| UROTPOSE | 14.6 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 | 87.8 | 0.026 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| ECHICORD | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 7.120 | 0.0 | 0.000 |
| ECHIJUVE | 1316.7 | 0.132 | 1711.7 | 0.171 | 936.3 | 0.094 | 365.8 | 0.037 | 804.7 | 0.080 |
| OPHIJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 | 14.6 | 0.003 |
| MOLLUSCA | | | | | | | | | | |
| CULTPELL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| DONAVITT | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 3.561 | 0.0 | 0.000 | 0.0 | 0.000 |
| MONTFERR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.058 | 0.0 | 0.000 |
| MYATRUN | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 14.6 | 0.034 | 29.3 | 0.054 | 0.0 | 0.000 | 43.9 | 0.123 | 29.3 | 0.105 |
| TELLFABU | 29.3 | 0.002 | 29.3 | 0.006 | 29.3 | 0.007 | 29.3 | 0.006 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ARICMINU | 14.6 | 0.004 | 29.3 | 0.007 | 14.6 | 0.004 | 29.3 | 0.010 | 14.6 | 0.006 |
| CHAESETO | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 |
| GONIBOBR | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.007 | 0.0 | 0.000 |
| MAGEPAPI | 14.6 | 0.004 | 29.3 | 0.066 | 0.0 | 0.000 | 58.5 | 0.212 | 0.0 | 0.000 |
| NEPHCIRR | 102.4 | 0.379 | 73.2 | 0.121 | 73.2 | 0.102 | 43.9 | 0.199 | 73.2 | 0.385 |
| NEPHHOMB | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.332 | 0.0 | 0.000 |
| NEPHJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHELIMA | 14.6 | 0.064 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.023 |
| PARAFULG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| SCOLARMI | 87.8 | 0.411 | 29.3 | 0.241 | 14.6 | 0.108 | 14.6 | 0.452 | 14.6 | 0.493 |
| SCOLBONN | 0.0 | 0.000 | 14.6 | 0.241 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPIOBOMB | 29.3 | 0.002 | 190.2 | 0.022 | 570.6 | 0.054 | 526.7 | 0.078 | 73.2 | 0.016 |
| SPIOFILI | 58.5 | 0.004 | 29.3 | 0.007 | 29.3 | 0.006 | 14.6 | 0.004 | 117.0 | 0.022 |
| MISCELLANEOUS | | | | | | | | | | |
| HYDROZOA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.007 | 0.0 | 0.000 |
| NEMERTIN | 14.6 | 0.003 | 0.0 | 0.000 | 87.8 | 0.006 | 29.3 | 0.010 | 29.3 | 0.006 |
| PHORONID | 29.3 | 0.018 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SUMS | 1989.7 | 1.125 | 2443.2 | 1.033 | 2062.8 | 4.048 | 1755.6 | 8.777 | 1521.5 | 1.238 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 17 | | 18 | | 18 | | 23 | | 16 | |
| SH-W | 1.462 | | 1.355 | | 1.725 | | 2.421 | | 1.753 | |
| SIMP | 0.450 | | 0.501 | | 0.291 | | 0.150 | | 0.313 | |

| STATION: | OFF 17 | | OFF 18 | | OFF 19 | | OFF 20 | | OFF 21 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| AMPHIPOD | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.022 |
| ATYLSWAM | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.013 |
| BATHELEG | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 204.8 | 0.061 | 0.0 | 0.000 |
| BATHGUIL | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.018 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPRELLI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| CORYCASS | 0.0 | 0.000 | 14.6 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| DIASBRAD | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 |
| IPHITRIS | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| LEUCINCI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| MEGAAGIL | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 | 87.8 | 0.026 |
| PONTALTA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 29.3 | 0.009 |
| PSEULONG | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 |
| PSEUSIMI | 29.3 | 0.006 | 0.0 | 0.000 | 117.0 | 0.023 | 0.0 | 0.000 | 307.2 | 0.061 |
| UROTBREV | 43.9 | 0.022 | 14.6 | 0.004 | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 |
| UROTPOSE | 0.0 | 0.000 | 0.0 | 0.000 | 117.0 | 0.035 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| ASTEJUVE | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHICORD | 14.6 | 11.751 | 43.9 | 35.002 | 43.9 | 32.579 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHIJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIJUVE | 0.0 | 0.000 | 29.3 | 0.006 | 14.6 | 0.003 | 0.0 | 0.000 | 43.9 | 0.009 |
| MOLLUSCA | | | | | | | | | | |
| ENSIENSI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 9.638 | 0.0 | 0.000 |
| MACTCORA | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.010 | 0.0 | 0.000 | 102.4 | 0.022 |
| MONTFERR | 0.0 | 0.000 | 43.9 | 0.007 | 160.9 | 0.113 | 0.0 | 0.000 | 0.0 | 0.000 |
| MYSEBIDE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 14.6 | 0.026 | 14.6 | 0.023 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| TELLPYGM | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 175.6 | 0.214 |
| POLYCHAETA | | | | | | | | | | |
| ANAISUBU | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.019 | 14.6 | 0.004 | 0.0 | 0.000 |
| AONIPAUC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.012 |
| ARICMINU | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.012 | 0.0 | 0.000 |
| CHAESETO | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| ETEOLONG | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 |
| EXOGHEBE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 |
| EXOGNAID | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| GLYCLAPI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.007 |
| HARMLUNU | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.097 | 14.6 | 0.053 | 0.0 | 0.000 |
| HESIAUGE | 0.0 | 0.000 | 29.3 | 0.002 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 |
| LANICONC | 29.3 | 0.013 | 102.4 | 0.047 | 526.7 | 1.200 | 234.1 | 17.535 | 1843.4 | 2.897 |
| NEPHCIRR | 58.5 | 0.032 | 29.3 | 0.241 | 0.0 | 0.000 | 14.6 | 0.413 | 58.5 | 0.495 |
| NEPHJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 29.3 | 0.004 |
| OPHELIMA | 0.0 | 0.000 | 14.6 | 0.037 | 0.0 | 0.000 | 14.6 | 0.004 | 43.9 | 0.010 |
| PARAFULG | 43.9 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLARMI | 29.3 | 0.538 | 14.6 | 0.158 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLBONN | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.023 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLSQUA | 29.3 | 0.424 | 58.5 | 0.320 | 29.3 | 0.120 | 14.6 | 0.783 | 29.3 | 0.274 |
| SPIOBOMB | 0.0 | 0.000 | 160.9 | 0.073 | 1082.6 | 0.597 | 175.6 | 0.108 | 87.8 | 0.048 |
| SPIOFILI | 14.6 | 0.004 | 73.2 | 0.010 | 102.4 | 0.029 | 190.2 | 0.056 | 43.9 | 0.012 |
| STREWEBS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 146.3 | 0.013 |
| TRAVFORB | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 1.061 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| NEMERTIN | 0.0 | 0.000 | 14.6 | 0.070 | 43.9 | 0.035 | 14.6 | 0.064 | 58.5 | 0.196 |
| SUMS | 321.9 | 12.844 | 716.9 | 36.037 | 2735.8 | 34.967 | 1082.6 | 29.809 | 3350.3 | 4.348 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 11 | | 18 | | 27 | | 16 | | 21 | |
| SH-W | 2.287 | | 2.550 | | 2.229 | | 2.187 | | 1.901 | |
| SIMP | 0.109 | | 0.104 | | 0.206 | | 0.147 | | 0.321 | |

| **STATION:** | OFF 22 | | OFF 23 | | OFF 24 | | OFF 25 | | OFF 26 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ATYLSWAM | 0.0 | 0.000 | 87.8 | 0.026 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHGUIL | 14.6 | 0.007 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPRELLI | 14.6 | 0.002 | 43.9 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CORYCASS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.029 | 0.0 | 0.000 |
| DIASBRAD | 0.0 | 0.000 | 29.3 | 0.015 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GAMMARID | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 |
| MEGAAGIL | 43.9 | 0.013 | 0.0 | 0.000 | 14.6 | 0.004 | 102.4 | 0.031 | 0.0 | 0.000 |
| PONTALTA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| PSEULONG | 43.9 | 0.009 | 0.0 | 0.000 | 14.6 | 0.003 | 87.8 | 0.018 | 14.6 | 0.003 |
| UROTBREV | 58.5 | 0.018 | 14.6 | 0.004 | 14.6 | 0.015 | 0.0 | 0.000 | 0.0 | 0.000 |
| UROTPOSE | 43.9 | 0.013 | 204.8 | 0.061 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| ASTEJUVE | 0.0 | 0.000 | 204.8 | 0.041 | 14.6 | 0.003 | 14.6 | 0.003 | 0.0 | 0.000 |
| ECHICORD | 14.6 | 6.016 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHIJUVE | 0.0 | 0.000 | 43.9 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| ECHIPUSI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.083 |
| OPHIJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 |
| MOLLUSCA | | | | | | | | | | |
| MACTCORA | 43.9 | 0.590 | 102.4 | 0.010 | 14.6 | 0.105 | 58.5 | 0.006 | 0.0 | 0.000 |
| MONTFERR | 0.0 | 0.000 | 14.6 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NATIALDE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.037 | 0.0 | 0.000 |
| TELLPYGM | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.057 | 14.6 | 0.004 |
| POLYCHAETA | | | | | | | | | | |
| ANAIGROE | 0.0 | 0.000 | 14.6 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAIMUCO | 0.0 | 0.000 | 278.0 | 0.161 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAISUBU | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.002 | 0.0 | 0.000 |
| AONIPAUC | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ARICMINU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 |
| ETEOLONG | 14.6 | 0.004 | 43.9 | 0.004 | 14.6 | 0.035 | 14.6 | 0.002 | 0.0 | 0.000 |
| EUMISANG | 0.0 | 0.000 | 131.7 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCLAPI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 43.9 | 0.012 | 14.6 | 0.002 |
| HARMLUNU | 0.0 | 0.000 | 102.4 | 0.225 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HESIAUGE | 14.6 | 0.002 | 0.0 | 0.000 | 117.0 | 0.004 | 0.0 | 0.000 | 58.5 | 0.002 |
| LANICONC | 102.4 | 0.035 | 2955.3 | 16.541 | 14.6 | 0.019 | 146.3 | 0.041 | 0.0 | 0.000 |
| MAGEPAPI | 14.6 | 0.104 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHCIRR | 73.2 | 0.590 | 73.2 | 1.760 | 117.0 | 0.989 | 29.3 | 0.598 | 14.6 | 0.339 |
| PECTKORE | 0.0 | 0.000 | 73.2 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PISIREMO | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| SCOLARMI | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.701 | 58.5 | 0.193 | 0.0 | 0.000 |
| SCOLBONN | 14.6 | 0.707 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPIOBOMB | 1814.1 | 0.459 | 4652.3 | 1.052 | 87.8 | 0.010 | 716.9 | 0.211 | 0.0 | 0.000 |
| SPIOFILI | 102.4 | 0.044 | 0.0 | 0.000 | 58.5 | 0.006 | 321.9 | 0.054 | 58.5 | 0.018 |
| STREWEBS | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| TRAVFORB | 0.0 | 0.000 | 14.6 | 0.350 | 29.3 | 0.650 | 29.3 | 0.097 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 14.6 | 0.013 | 14.6 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ARCHIANN | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 14.6 | 0.002 |
| HYDROZOA | 0.0 | 0.000 | 14.6 | 0.003 | 14.6 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEMERTIN | 14.6 | 0.080 | 263.3 | 0.360 | 14.6 | 0.019 | 58.5 | 0.091 | 58.5 | 0.054 |
| PHORONID | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| SUMS | 2501.7 | 8.717 | 9421.7 | 20.703 | 614.5 | 2.575 | 1901.9 | 1.499 | 336.5 | 0.517 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 21 | | 24 | | 16 | | 21 | | 14 | |
| SH-W | 1.330 | | 1.541 | | 2.392 | | 2.256 | | 2.412 | |
| SIMP | 0.532 | | 0.345 | | 0.118 | | 0.187 | | 0.109 | |

# Appendix - 2 Biomonitoring 1995

| STATION: | OFF 27 | | OFF 28 | | OFF 29 | | OFF 30 | | OFF 31 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ARGIHAMA | 0.0 | 0.000 | 0.0 | 0.000 | 58.5 | 0.018 | 14.6 | 0.004 | 0.0 | 0.000 |
| ATYLSWAM | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| BATHELEG | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 29.3 | 0.009 | 409.6 | 0.123 |
| BATHJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 |
| BATHSPEC | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPRELLI | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| CORYCASS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.038 | 0.0 | 0.000 |
| DIASBRAD | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.019 | 0.0 | 0.000 | 0.0 | 0.000 |
| EURYSPIN | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GAMMARID | 0.0 | 0.000 | 29.3 | 0.009 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| IPHITRIS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 117.0 | 0.044 | 0.0 | 0.000 |
| LEUCINCI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| MEGAAGIL | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 | 73.2 | 0.022 | 29.3 | 0.009 |
| PONTALTA | 14.6 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| PSEULONG | 0.0 | 0.000 | 87.8 | 0.018 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PSEUSIMI | 0.0 | 0.000 | 248.7 | 0.050 | 43.9 | 0.009 | 73.2 | 0.015 | 14.6 | 0.003 |
| UROTBREV | 87.8 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| UROTPOSE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 190.2 | 0.057 | 14.6 | 0.004 |
| ECHINODERMATA | | | | | | | | | | |
| ACROBRAC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.554 | 0.0 | 0.000 |
| ASTEJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 468.2 | 0.094 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHICORD | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 1.447 | 0.0 | 0.000 |
| ECHIJUVE | 0.0 | 0.000 | 0.0 | 0.000 | 526.7 | 0.053 | 482.8 | 0.048 | 58.5 | 0.006 |
| ECHIPUSI | 0.0 | 0.000 | 29.3 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| OPHIJUVE | 0.0 | 0.000 | 43.9 | 0.009 | 307.2 | 0.061 | 14.6 | 0.003 | 0.0 | 0.000 |
| MOLLUSCA | | | | | | | | | | |
| CHLAVARI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 |
| MACTCORA | 0.0 | 0.000 | 43.9 | 0.010 | 14.6 | 0.146 | 0.0 | 0.000 | 0.0 | 0.000 |
| MONTFERR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 | 0.0 | 0.000 |
| MYSEBIDE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 |
| NATIALDE | 0.0 | 0.000 | 43.9 | 0.018 | 43.9 | 0.101 | 0.0 | 0.000 | 14.6 | 0.004 |
| SPISSUBT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 380.4 | 27.393 | 14.6 | 0.151 |
| TELLFABU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 131.7 | 0.171 | 29.3 | 0.002 |
| TELLPYGM | 0.0 | 0.000 | 175.6 | 0.018 | 29.3 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 |
| VENUSTRI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAIGROE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 1.640 | 0.0 | 0.000 |
| ANAILINE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.018 | 0.0 | 0.000 |
| ANAISUBU | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.004 | 43.9 | 0.007 | 0.0 | 0.000 |
| ARICMINU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.013 |
| CHAESETO | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.010 |
| ETEOLONG | 0.0 | 0.000 | 0.0 | 0.000 | 146.3 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 |
| EUMISANG | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| EXOGNAID | 0.0 | 0.000 | 0.0 | 0.000 | 175.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCLAPI | 0.0 | 0.000 | 29.3 | 0.006 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLUNU | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.037 | 0.0 | 0.000 | 0.0 | 0.000 |
| HESIAUGE | 117.0 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 0.0 | 0.000 | 1068.0 | 0.187 | 190.2 | 0.095 | 790.0 | 1.513 | 0.0 | 0.000 |
| LUMBLATR | 0.0 | 0.000 | 14.6 | 2.396 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MAGEPAPI | 14.6 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 160.9 | 0.180 | 0.0 | 0.000 |
| MICRSIMI | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHCAEC | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 2.367 |
| NEPHCIRR | 160.9 | 0.448 | 87.8 | 1.091 | 58.5 | 0.537 | 0.0 | 0.000 | 73.2 | 0.032 |
| NOTOLATE | 0.0 | 0.000 | 14.6 | 0.742 | 0.0 | 0.000 | 29.3 | 1.056 | 0.0 | 0.000 |
| OPHELIMA | 0.0 | 0.000 | 43.9 | 0.013 | 43.9 | 0.016 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 | 43.9 | 0.013 | 0.0 | 0.000 |
| POECSERP | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLARMI | 14.6 | 0.274 | 0.0 | 0.000 | 29.3 | 0.187 | 0.0 | 0.000 | 73.2 | 0.274 |
| SCOLBONN | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.415 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLSQUA | 0.0 | 0.000 | 14.6 | 0.146 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SIGAMATH | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 1.050 | 0.0 | 0.000 |
| SPIOBOMB | 0.0 | 0.000 | 43.9 | 0.041 | 4549.9 | 2.445 | 1009.5 | 0.478 | 1697.1 | 0.035 |
| SPIOFILI | 160.9 | 0.095 | 14.6 | 0.006 | 234.1 | 0.086 | 0.0 | 0.000 | 43.9 | 0.004 |
| STREWEBS | 0.0 | 0.000 | 58.5 | 0.018 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 14.6 | 0.010 | 0.0 | 0.000 | 14.6 | 13.357 | 0.0 | 0.000 |
| ARCHIANN | 29.3 | 0.004 | 0.0 | 0.000 | 43.9 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| HYDROZOA | 0.0 | 0.000 | 0.0 | 0.000 | 2326.2 | 7.657 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEMERTIN | 58.5 | 0.107 | 58.5 | 0.026 | 43.9 | 0.070 | 29.3 | 0.035 | 0.0 | 0.000 |
| SUMS | 673.0 | 1.005 | 2223.8 | 4.843 | 9641.2 | 12.153 | 3950.1 | 49.185 | 2618.8 | 3.046 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 10 | | 23 | | 31 | | 30 | | 16 | |
| SH-W | 1.936 | | 2.091 | | 1.833 | | 2.459 | | 1.376 | |
| SIMP | 0.172 | | 0.257 | | 0.289 | | 0.137 | | 0.448 | |

| STATION: | OFF 32 | | OFF 33 | | OFF 34 | | OFF 35 | | OFF 36 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ATYLFALC | 0.0 | 0.000 | 541.3 | 0.162 | 0.0 | 0.000 | 175.6 | 0.053 | 0.0 | 0.000 |
| ATYLSWAM | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHELEG | 0.0 | 0.000 | 190.2 | 0.057 | 102.4 | 0.031 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHGUIL | 43.9 | 0.013 | 58.5 | 0.018 | 58.5 | 0.029 | 0.0 | 0.000 | 43.9 | 0.018 |
| BATHJUVE | 29.3 | 0.006 | 160.9 | 0.032 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPRELLI | 14.6 | 0.003 | 146.3 | 0.029 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 |
| CORYCASS | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 |
| DIASBRAD | 0.0 | 0.000 | 29.3 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GAMMARID | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| LEUCINCI | 0.0 | 0.000 | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MEGAAGIL | 58.5 | 0.018 | 0.0 | 0.000 | 43.9 | 0.013 | 29.3 | 0.009 | 43.9 | 0.013 |
| MICRMACU | 0.0 | 0.000 | 87.8 | 0.026 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PERILONG | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PSEULONG | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 | 29.3 | 0.006 | 131.7 | 0.026 |
| PSEUSIMI | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 | 29.3 | 0.006 | 73.2 | 0.015 |
| UROTBREV | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHINODERMATA | | | | | | | | | | |
| ASTEJUVE | 0.0 | 0.000 | 482.8 | 0.097 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHIJUVE | 0.0 | 0.000 | 175.6 | 0.018 | 102.4 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHIPUSI | 0.0 | 0.000 | 14.6 | 0.012 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.097 |
| OPHIALBI | 0.0 | 0.000 | 14.6 | 0.689 | 0.0 | 0.000 | 29.3 | 0.420 | 0.0 | 0.000 |
| OPHIJUVE | 43.9 | 0.009 | 175.6 | 0.035 | 29.3 | 0.006 | 0.0 | 0.000 | 58.5 | 0.012 |
| MOLLUSCA | | | | | | | | | | |
| MACTCORA | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.012 | 0.0 | 0.000 | 14.6 | 0.002 |
| MYSEBIDE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 |
| NATIALDE | 0.0 | 0.000 | 58.5 | 0.073 | 14.6 | 0.028 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPISELLI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.856 |
| SPISSUBT | 14.6 | 0.811 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| TELLPYGM | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 73.2 | 0.078 |
| POLYCHAETA | | | | | | | | | | |
| ANAILINE | 0.0 | 0.000 | 248.7 | 0.241 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAIMUCO | 0.0 | 0.000 | 541.3 | 1.453 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| ANAISUBU | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ARICMINU | 14.6 | 0.006 | 43.9 | 0.006 | 14.6 | 0.002 | 131.7 | 0.023 | 14.6 | 0.004 |
| CHAESETO | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.066 | 0.0 | 0.000 | -0.0 | 0.000 |
| ETEOLONG | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| EULABILI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| EUMISANG | 0.0 | 0.000 | 58.5 | 0.044 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| GLYCLAPI | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 |
| GYPTCAPE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.012 |
| HARMLONG | 0.0 | 0.000 | 102.4 | 0.098 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLUNU | 0.0 | 0.000 | 14.6 | 0.079 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMNODO | 0.0 | 0.000 | 14.6 | 0.022 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HESIAUGE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.004 | 58.5 | 0.004 |
| LANICONC | 14.6 | 0.002 | 8792.6 | 22.264 | 29.3 | 0.019 | 160.9 | 0.025 | 14.6 | 0.004 |
| LUMBLATR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.113 |
| MAGEPAPI | 0.0 | 0.000 | 29.3 | 0.050 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHCIRR | 117.0 | 0.813 | 58.5 | 0.746 | 58.5 | 0.342 | 204.8 | 1.024 | 29.3 | 0.882 |
| NEPHJUVE | 0.0 | 0.000 | 58.5 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEPHLONG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.192 |
| OPHELIMA | 0.0 | 0.000 | 14.6 | 0.022 | 0.0 | 0.000 | 14.6 | 0.004 | 248.7 | 0.126 |
| PARAGRAC | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 1111.9 | 0.097 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| POECSERP | 0.0 | 0.000 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLARMI | 14.6 | 0.054 | 29.3 | 0.888 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLSQUA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.200 | 0.0 | 0.000 |
| SPHAHYTR | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| SPIOBOMB | 2882.1 | 1.134 | 8865.8 | 2.968 | 117.0 | 0.019 | 497.4 | 0.907 | 73.2 | 0.035 |
| SPIOFILI | 526.7 | 0.138 | 0.0 | 0.000 | 146.3 | 0.026 | 234.1 | 0.091 | 58.5 | 0.016 |
| STREWEBS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| MISCELLANEOUS | | | | | | | | | | |
| NEMERTIN | 29.3 | 0.180 | 43.9 | 0.058 | 29.3 | 0.003 | 14.6 | 0.013 | 58.5 | 0.373 |
| SUMS | 3862.3 | 3.200 | 22296.1 | 30.334 | 936.3 | 0.650 | 1711.7 | 2.806 | 1126.5 | 2.887 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 15 | | 35 | | 20 | | 19 | | 24 | |
| SH-W | 1.015 | | 1.622 | | 2.699 | | 2.277 | | 2.756 | |
| SIMP | 0.577 | | 0.318 | | 0.083 | | 0.146 | | 0.091 | |

# Appendix - 2 Biomonitoring 1995

| STATION: | COA 1 | | COA 2 | | COA 3 | | COA 4 | | COA 5 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ATYLFALC | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ATYLSWAM | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHELEG | 0.0 | 0.000 | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHGUIL | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| CAPRELLI | 14.6 | 0.003 | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 |
| CORYCASS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.152 | 0.0 | 0.000 |
| DIASBRAD | 43.9 | 0.018 | 43.9 | 0.018 | 29.3 | 0.009 | 0.0 | 0.000 | 14.6 | 0.009 |
| IPHITRIS | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.012 |
| MEGAAGIL | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| MICRMACU | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| PERILONG | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.009 |
| PSEULONG | 73.2 | 0.015 | 87.8 | 0.018 | 29.3 | 0.006 | 0.0 | 0.000 | 14.6 | 0.003 |
| UROTPOSE | 307.2 | 0.092 | 482.8 | 0.145 | 307.2 | 0.092 | 102.4 | 0.031 | 1682.4 | 0.505 |
| ECHINODERMATA | | | | | | | | | | |
| ECHICORD | 43.9 | 16.764 | 58.5 | 27.677 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.790 |
| ECHIJUVE | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.080 | 0.0 | 0.000 | 0.0 | 0.000 |
| DONAVITT | 43.9 | 0.448 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ENSIDIRE | 0.0 | 0.000 | 43.9 | 22.267 | 234.1 | 170.186 | 58.5 | 7.849 | 0.0 | 0.000 |
| ENSIENSI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 7.227 |
| MACOBALT | 0.0 | 0.000 | 102.4 | 1.163 | 0.0 | 0.000 | 73.2 | 2.127 | 0.0 | 0.000 |
| MONTFERR | 146.3 | 0.151 | 365.8 | 0.224 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.034 |
| MYSEBIDE | 73.2 | 0.018 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPISELLI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 1.184 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPISSUBT | 14.6 | 0.050 | 0.0 | 0.000 | 43.9 | 1.622 | 0.0 | 0.000 | 336.5 | 61.246 |
| TELLFABU | 453.5 | 5.943 | 58.5 | 0.408 | 380.4 | 5.912 | 131.7 | 2.471 | 146.3 | 3.628 |
| TELLTENU | 0.0 | 0.000 | 14.6 | 0.573 | 0.0 | 0.000 | 14.6 | 0.446 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAILINE | 219.4 | 0.060 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAIMUCO | 175.6 | 0.037 | 0.0 | 0.000 | 87.8 | 0.004 | 0.0 | 0.000 | 43.9 | 0.012 |
| ANAISUBU | 29.3 | 0.002 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ARICMINU | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPICAPI | 43.9 | 0.004 | 0.0 | 0.000 | 87.8 | 0.013 | 29.3 | 0.004 | 14.6 | 0.002 |
| EUMISANG | 117.0 | 0.029 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.012 |
| HARMJUVE | 14.6 | 0.002 | 14.6 | 0.002 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLONG | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 10519.0 | 5.359 | 29.3 | 0.004 | 1682.4 | 0.941 | 14.6 | 0.053 | 833.9 | 1.094 |
| MAGEPAPI | 3467.3 | 5.576 | 8573.2 | 15.262 | 1521.5 | 1.583 | 1843.4 | 0.421 | 4228.1 | 1.543 |
| NEPHCIRR | 453.5 | 0.313 | 160.9 | 1.702 | 87.8 | 0.121 | 0.0 | 0.000 | 117.0 | 0.284 |
| NEPHHOMB | 73.2 | 5.047 | 43.9 | 0.657 | 14.6 | 1.939 | 73.2 | 3.557 | 58.5 | 1.939 |
| NEPHJUVE | 0.0 | 0.000 | 58.5 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NERELONG | 14.6 | 0.521 | 0.0 | 0.000 | 14.6 | 0.375 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 0.0 | 0.000 | 219.4 | 0.127 | 14.6 | 0.133 | 29.3 | 0.029 |
| SCOLARMI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.023 | 0.0 | 0.000 | 0.0 | 0.000 |
| SCOLBONN | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.041 |
| SIGAMATH | 58.5 | 2.489 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPIOBOMB | 1755.6 | 0.882 | 58.5 | 0.026 | 5310.7 | 2.866 | 585.2 | 0.135 | 2194.5 | 1.086 |
| SPIOFILI | 29.3 | 0.004 | 102.4 | 0.012 | 87.8 | 0.032 | 790.0 | 0.212 | 73.2 | 0.022 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 14.6 | 0.006 | 0.0 | 0.000 | 73.2 | 0.042 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEMERTIN | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.064 | 43.9 | 1.223 |
| SUMS | 18316.8 | 43.858 | 10387.3 | 70.189 | 10328.8 | 187.181 | 3759.9 | 17.656 | 10065.4 | 80.756 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 31 | | 21 | | 24 | | 14 | | 24 | |
| SH-W | 1.513 | | 0.887 | | 1.658 | | 1.546 | | 1.724 | |
| SIMP | 0.377 | | 0.685 | | 0.316 | | 0.312 | | 0.260 | |

| **STATION:** | COA 6 | | COA 7 | | COA 8 | | COA 9 | | COA 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ATYLSWAM | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHELEG | 14.6 | 0.004 | 58.5 | 0.018 | 321.9 | 0.097 | 14.6 | 0.004 | 0.0 | 0.000 |
| BATHGUIL | 29.3 | 0.015 | 58.5 | 0.023 | 160.9 | 0.048 | 0.0 | 0.000 | 0.0 | 0.000 |
| BATHSPEC | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPRELLI | 0.0 | 0.000 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MICRMACU | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ORCHHUMI | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| PONTALTA | 0.0 | 0.000 | 146.3 | 0.044 | 43.9 | 0.013 | 0.0 | 0.000 | 0.0 | 0.000 |
| PSEULONG | 0.0 | 0.000 | 14.6 | 0.003 | 29.3 | 0.006 | 102.4 | 0.021 | 0.0 | 0.000 |
| PSEUSIMI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 |
| UROTPOSE | 1053.4 | 0.316 | 14.6 | 0.004 | 2165.2 | 0.650 | 892.4 | 0.268 | 204.8 | 0.061 |
| ECHINODERMATA | | | | | | | | | | |
| ECHICORD | 14.6 | 9.954 | 0.0 | 0.000 | 29.3 | 22.539 | 14.6 | 8.292 | 0.0 | 0.000 |
| MOLLUSCA | | | | | | | | | | |
| DONAVITT | 29.3 | 0.272 | 0.0 | 0.000 | 14.6 | 4.142 | 0.0 | 0.000 | 0.0 | 0.000 |
| ENSIDIRE | 0.0 | 0.000 | 0.0 | 0.000 | 102.4 | 18.330 | 0.0 | 0.000 | 43.9 | 21.480 |
| ENSIJUVE | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MACOBALT | 58.5 | 0.961 | 0.0 | 0.000 | 14.6 | 0.155 | 0.0 | 0.000 | 0.0 | 0.000 |
| MONTFERR | 160.9 | 0.110 | 0.0 | 0.000 | 395.0 | 0.345 | 29.3 | 0.057 | 0.0 | 0.000 |
| MYSEBIDE | 14.6 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 234.1 | 0.073 | 29.3 | 0.038 |
| NATIALDE | 14.6 | 0.597 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPISSUBT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 5.081 | 29.3 | 0.992 |
| TELLFABU | 146.3 | 3.991 | 0.0 | 0.000 | 131.7 | 3.401 | 234.1 | 1.740 | 175.6 | 3.993 |
| TELLTENU | 43.9 | 1.982 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.303 |
| POLYCHAETA | | | | | | | | | | |
| ANAIMACU | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.007 | 14.6 | 0.004 | 0.0 | 0.000 |
| ANAIMUCO | 43.9 | 0.007 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ANAISUBU | 43.9 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPICAPI | 14.6 | 0.002 | 0.0 | 0.000 | 175.6 | 0.031 | 351.1 | 0.104 | 0.0 | 0.000 |
| CHAESETO | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.031 | 0.0 | 0.000 |
| ETEOLONG | 14.6 | 0.016 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 | 0.0 | 0.000 |
| EUMISANG | 395.0 | 0.181 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HARMLONG | 58.5 | 0.139 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| LANICONC | 2384.7 | 1.720 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.026 |
| MAGEPAPI | 13796.1 | 14.864 | 131.7 | 0.031 | 936.3 | 0.297 | 146.3 | 0.047 | 395.0 | 0.151 |
| NEPHCIRR | 146.3 | 0.550 | 278.0 | 1.328 | 160.9 | 0.073 | 14.6 | 0.098 | 14.6 | 0.006 |
| NEPHHOMB | 146.3 | 5.644 | 0.0 | 0.000 | 87.8 | 1.659 | 0.0 | 0.000 | 160.9 | 0.935 |
| NEPHJUVE | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NERELONG | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.964 | 0.0 | 0.000 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.004 | 43.9 | 0.041 |
| SCOLARMI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 219.4 | 1.467 | 0.0 | 0.000 |
| SCOLBONN | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SIGAMATH | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.657 | 0.0 | 0.000 | 0.0 | 0.000 |
| SPIOBOMB | 117.0 | 0.066 | 0.0 | 0.000 | 541.3 | 0.203 | 2340.8 | 1.086 | 599.8 | 0.097 |
| SPIOFILI | 175.6 | 0.042 | 0.0 | 0.000 | 248.7 | 0.025 | 14.6 | 0.002 | 0.0 | 0.000 |
| STHEBOA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.388 | 0.0 | 0.000 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 4.905 | 0.0 | 0.000 |
| NEMERTIN | 29.3 | 0.988 | 0.0 | 0.000 | 58.5 | 0.641 | 14.6 | 0.016 | 29.3 | 0.145 |
| SUMS | 19033.6 | 42.459 | 731.5 | 1.459 | 5735.0 | 54.297 | 4871.8 | 23.699 | 1828.8 | 28.267 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 28 | | 9 | | 23 | | 22 | | 13 | |
| SH-W | 1.133 | | 1.715 | | 2.177 | | 1.843 | | 1.981 | |
| SIMP | 0.545 | | 0.230 | | 0.192 | | 0.278 | | 0.188 | |

| STATION: | COA 11 | | COA 12 | | COA 13 | | COA 14 | | COA 15 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | N | B | N | B | N | B | N | B | N | B |
| CRUSTACEA | | | | | | | | | | |
| ATYLFALC | 29.3 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 |
| BATHELEG | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 0.0 | 0.000 |
| BATHGUIL | 58.5 | 0.029 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPRELLI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.018 |
| DIASBRAD | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 87.8 | 0.061 |
| MEGAAGIL | 14.6 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| PONTALTA | 0.0 | 0.000 | 14.6 | 0.004 | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 |
| PSEULONG | 29.3 | 0.006 | 14.6 | 0.003 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 0.022 |
| UROTBREV | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.015 | 0.0 | 0.000 | 0.0 | 0.000 |
| UROTPOSE | 29.3 | 0.009 | 73.2 | 0.022 | 0.0 | 0.000 | 409.6 | 0.123 | 526.7 | 0.158 |
| ECHINODERMATA | | | | | | | | | | |
| ASTEJUVE | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| ECHICORD | 0.0 | 0.000 | 14.6 | 3.704 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MOLLUSCA | | | | | | | | | | |
| ABRAALBA | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.003 |
| ENSIDIRE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 15.686 | 219.4 | 59.753 |
| ENSISPEC | 14.6 | 8.573 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| MACOBALT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.440 | 0.0 | 0.000 |
| MACTCORA | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 5.712 |
| MONTFERR | 0.0 | 0.000 | 14.6 | 0.009 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.010 |
| MYSEBIDE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.004 | 204.8 | 0.041 |
| SPISSUBT | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 365.8 | 38.363 |
| TELLFABU | 0.0 | 0.000 | 14.6 | 0.154 | 0.0 | 0.000 | 29.3 | 0.319 | 234.1 | 2.922 |
| TELLTENU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 102.4 | 0.010 | 0.0 | 0.000 |
| POLYCHAETA | | | | | | | | | | |
| ANAIMACU | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 219.4 | 0.012 |
| ANAIMUCO | 29.3 | 0.006 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| CAPICAPI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 43.9 | 0.010 | 43.9 | 0.004 |
| ETEOLONG | 14.6 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| HETEFILI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| LANICONC | 58.5 | 0.451 | 14.6 | 0.002 | 0.0 | 0.000 | 14.6 | 0.007 | 1433.7 | 0.279 |
| MAGEPAPI | 0.0 | 0.000 | 160.9 | 0.424 | 14.6 | 0.006 | 29.3 | 0.019 | 5062.0 | 6.298 |
| NEPHCAEC | 14.6 | 0.234 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 5.075 |
| NEPHCIRR | 73.2 | 0.604 | 146.3 | 0.873 | 14.6 | 0.012 | 29.3 | 0.121 | 0.0 | 0.000 |
| NEPHHOMB | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 73.2 | 3.018 | 175.6 | 0.895 |
| NEPHJUVE | 43.9 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NOTOLATE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 117.0 | 5.262 | 0.0 | 0.000 |
| PECTKORE | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| SCOLARMI | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 14.6 | 0.002 |
| SCOLBONN | 0.0 | 0.000 | 117.0 | 0.521 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| SIGAMATH | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.019 |
| SPIOBOMB | 2779.7 | 0.857 | 2106.7 | 0.356 | 0.0 | 0.000 | 1316.7 | 1.031 | 11396.8 | 4.930 |
| SPIOFILI | 117.0 | 0.029 | 14.6 | 0.006 | 0.0 | 0.000 | 160.9 | 0.061 | 190.2 | 0.050 |
| MISCELLANEOUS | | | | | | | | | | |
| ANTHOZOA | 14.6 | 0.010 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 | 29.3 | 0.006 |
| ARCHIANN | 14.6 | 0.007 | 29.3 | 0.004 | 0.0 | 0.000 | 0.0 | 0.000 | 0.0 | 0.000 |
| NEMERTIN | 43.9 | 0.119 | 29.3 | 0.003 | 14.6 | 0.022 | 14.6 | 0.006 | 29.3 | 0.183 |
| SUMS | 3423.4 | 10.973 | 2779.7 | 6.089 | 87.8 | 0.058 | 2428.6 | 26.125 | 20525.9 | 124.823 |
| DIVERSITY | | | | | | | | | | |
| NSPC | 19 | | 15 | | 5 | | 16 | | 26 | |
| SH-W | 0.984 | | 1.076 | | 1.561 | | 1.656 | | 1.451 | |
| SIMP | 0.662 | | 0.583 | | 0.213 | | 0.333 | | 0.376 | |

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