Acta Oceanol. Sin., 2013, Vol. 32, No. 8, P. 44-54 DOI: 10.1007/s13131-013-0340-2 http://www.hyxb.org.cn E-mail: hyxbe@263.net

# Temporal dynamics of shallow subtidal meiobenthos from a beach in Tenerife (Canary Islands, northeast Atlantic Ocean)

Rodrigo Riera1\*, Jorge Núñez2, María del Carmen Brito2

<sup>1</sup> Centro de Investigaciones Medioambientales del Atlántico (CIMA SL), Arzobispo Elías Yanes 44, 38206 La Laguna, Tenerife, Canary Islands, Spain

<sup>2</sup> Benthos Laboratory, Department of Animal Biology, Faculty of Biology, University of La Laguna, 38206 La Laguna, Tenerife, Canary Islands, Spain

Received 23 January 2012; accepted 11 January 2013

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#### Abstract

A shallow subtidal (3 m deep) meiofaunal assemblage in Los Abrigos Bay, Tenerife, Canary Islands was sampled during May 2000–April 2001. The main aims were to (1) find temporal variations in meiofaunal assemblage structure and overall abundance, as well as in the most abundant meiofaunal species throughout the study period, and (2) identify environmental variables (sedimentary composition, organic matter content, and total nitrogen) that better explain meiofaunal assemblage structure during the study year. The most abundant species were the nematodes *Siphonolaimus* sp. 2 and *Catanema* sp., which represented 46.2% of the overall meiofaunal abundances and varied significantly throughout the study duration. Overall meiofaunal abundance and the most abundant taxonomic groups (nematodes, copepods, and oligochaetes) showed significant temporal variations during the study period. Nematodes overwhelmingly dominated during the study period, ranging from 78% in May to 97.34% in February. Multivariate analyses showed seasonality in meiofaunal community structure during the study year, with the lowest abundances in May. **Key words:** Meiofauna, assemblage structure, subtidal, Canary Islands, Atlantic Ocean

**Citation:** Rodrigo Riera, Jorge Núñez, María del Carmen Brito. 2013. Temporal dynamics of shallow subtidal meiobenthos from a beach in Tenerife (Canary Islands, northeast Atlantic Ocean). Acta Oceanologica Sinica, 32(8): 44–54, doi: 10.1007/s13131-013-0340-2

# 1 Introduction

Seasonal variation in animal populations is often quite predictable. In benthic communities, temporal changes are generally more pronounced in the intertidal than in deeper waters. A plethora of abiotic and biotic variables may account for temporal fluctuations in benthic animal assemblages (Ólafsson and Elmgren, 1997). Temporal distribution of meiofauna (mobile metazoan benthic invertebrates that pass through a 0.5 mm mesh sieve but are retained on a 0.063 or 0.042 mm mesh sieve) is highly variable and scale-dependent (Higgins and Thiel, 1988). Several meiobenthic studies in subtidal areas have failed to detect temporal oscillations in meiofaunal assemblages (Juario, 1975; Warwick and Buchanan, 1971; Boucher, 1980). However, other studies have observed significant seasonality in subtidal meiofauna assemblages (Rudnick et al., 1985, Ólafsson and Elmgren, 1997) throughout a study year.

In recent years, many ecological studies on meiobenthic communities have been carried out in the Canary archipelago (Riera, 2004; Brito et al., 2005). Brito et al. (2005) analysed seasonal variations of "large" meiofaunal/"small" macrofaunal polychaetes (< 0.1 mm) from a *Cymodocea nodosa* seagrass meadow in Tenerife. However, "real" subtidal meiofauna (0.063–1 mm long) have not received attention and so, more baseline data describing species diversity and community structure are needed to further study the importance of meiofauna in shallow subtidal sandy systems.

In the present study, we investigated patterns in the as-

semblage structure and abundance of meiofauna inhabiting a shallow subtidal site at the Canary Islands through an annual cycle. The main aims were to (1) determine if patterns of assemblage structure or meiofaunal abundances followed any temporal trend, and (2) identify if studied environmental variables (grain size, organic matter, and nitrogen) affected meiofauna assemblage structure throughout the study period.

## 2 Materials and methods

#### 2.1 Study area

This study was conducted from May 2000 to April 2001 at Los Abrigos del Porís Bay, a locality on the southeast coast of Tenerife (Canary Islands, NE Atlantic Ocean, (28°08′58″N, 16°42′54″W) (Fig. 1). The study site is located in a sheltered bay (classified as ultra-dissipative, sensu Short, 1999). Sandy substrates are characterized by volcanic sands with a low percentage of carbonates, and dominated by the presence of medium and fine sands.

Sediment samples were collected monthly by SCUBA divers at one shallow subtidal station (3 m deep). Sediment cores (10 cm<sup>2</sup>) were pushed into the sediment to a depth of 30 cm. Five replicates were collected for faunistic determinations and one for analysis of sedimentary variables (grain size, organic matter, and nitrogen).

## 2.2 Analysis of sedimentological variables

To assess grain size composition of the analysed sediment,

<sup>\*</sup>Corresponding author, E-mail: rodrigo@cimacanarias.com



Fig.1. Map of the study area showing sampling location.

100 g sediment from each month was oven dried at 105°C, passed through a graded series (2, 1, 0.5, 0.25, 0.125, and 0.063 mm) of sieves, and then weighed (Buchanan, 1984). Total nitrogen was determined by the Kjeldahl method (Bradstreet, 1965).

## 2.3 Analysis of meiofauna

Samples were preserved in 10% seawater-buffered formaldehyde solution and decanted through 500  $\mu$ m and 63  $\mu$ m mesh sieves. The fraction remaining on the 63  $\mu$ m mesh sieve was separated into different taxonomic groups under a binocular microscope and preserved in 70% ethanol. The extraction method followed procedures of Somerfield and Warwick (1996). Meiofaunal specimens were mounted in jelly glycerine and examined using a LEICA DMLB microscope equipped with Nomarski interference contrast and identified to species level, whenever possible. All meiofaunal specimens were identified using the microscope and subsamples of 200 individuals were used for nematodes (Somerfield and Warwick, 1996). Certain taxonomic groups (i.e., harpacticoid copepods, turbellarians) that needed dissection or taxonomic characters of internal anatomy were determined by their body shape in putative species. Meiofaunal abundances were expressed as a number of individuals per surface area (10 cm<sup>2</sup>).

# 2.4 Statistical analysis

Biological assemblage descriptors (total abundance and species richness) were estimated for each sample. Differences in species richness and abundance patterns during months of the study period (the fixed factor) were tested through a oneway ANOVA, after verifying normality using the Kolmogorov-Smirnov test and Levene's test for homogeneity of variances. When the requirements of normality and/or homogeneity of variances were not fulfilled, the Kruskal-Wallis ANOVA (KW ANOVA) test was used instead.

To visualize affinities in assemblage structure through the study period, n-MDS (non-metric multidimensional scaling) was carried out on square root transformed abundance data via the Bray-Curtis similarity index. The ANOSIM routine (Clarke, 1993) was used to explore the significance of differences among months.

The relationship between environmental variables and meiofaunal community structure was explored using BIOENV procedures. All multivariate analyses were carried out by means of the PRIMER 5.2. package (Clarke and Gorley, 2001).

# **3 Results**

### 3.1 Sedimentary variables

The sampling site was dominated by medium sands (0.25– 0.5 mm), ranging from a minimum dominance of 31.7% (August 2000) to a maximum of 64.4% (December 2000). Fine sands were the second sedimentary fraction in importance, ranging from 16.6% (May 2000) to 55.9% (September 2000). The remaining sediment types were scarce. Organic matter content was characterized by a mean percentage of 0.90% throughout the study period, with a maximum content of 1.68% (May 2000) and a minimum content of 0.50% (October and November 2000). Nitrogen concentration obtained a mean value of 0.009%, ranging from 0.010% (June 2000, September 2000, and April 2001) to 0.008% (October 2000–February 2001) (Table 1).

# 3.2 Meiofauna

A total of 15 taxonomic groups were collected: nematodes, oligochaetes, polychaetes, copepods, turbellarians, tanaids, amphipods, cnidarians, echinoids, misids, ostracods, acari, ne-

Table 1. Values of sedimentary variables throughout the study period in the Los Abrigos subtidal

				0		-		0				
	May	June	July	August	September	October	November	December	January	February	March	April
	2000	2000	2000	2000	2000	2000	2000	2000	2001	2001	2001	2001
Nitrogen/%	0.009	0.01	0.009	0.009	0.01	0.008	0.008	0.008	0.008	0.008	0.009	0.01
Carbonates/%	3.08	6.84	5.13	9.57	7.86	4.62	1.54	5.47	7.01	5.98	6.32	7.18
Organic matter/%	1.68	1.54	1.31	0.77	0.74	0.51	0.5	0.78	0.7	0.54	0.91	0.85
Gravels/%	9.82	5.42	5.64	12.24	2.56	0.46	2.28	0.48	1.56	1.56	7.83	5.72
Very coarse sands/%	6.98	2.44	1.72	4.87	1.18	0.92	1.35	1.09	0.65	1.55	3.72	1.58
Coarse sands/%	7.71	3.62	5.29	5.49	1.17	1.61	2.11	2.58	1.06	2.48	3.4	1.25
Medium sands/%	58.5	52.04	57.41	31.7	35.61	54.21	50.61	64.38	50.82	52.04	42.63	34.44
Fine sands/%	16.57	32.36	25.84	41.91	55.89	40.76	41.89	30.32	44.5	40.32	40.41	54.08
Very fine sands/%	0.39	3.88	3.81	3.46	3.21	1.94	1.63	1.07	1.33	1.88	1.87	2.75
Silt/clay/%	0.03	0.25	0.29	0.32	0.38	0.11	0.13	0.07	0.09	0.17	0.14	0.17

merteans, decapods, and kinorhynchs. Nematodes were the most abundant group with 38 504 individuals (91.11% of the overall abundance), ranging from 78% in May 2000 to 97.34% in February 2001. The second and third most abundant taxonom-

ic groups were oligochaetes and polychaetes, with 683 (1.66%) and 679 (1.65%) individuals, respectively. The remaining taxonomical groups (copepods, turbellarians, ostracods, acari, nemerteans, decapods, and kinorhynchs) were scarce (Table 2).

Table 2. Mean abundances ( $\pm$  SE) of meiofaunal species in the Los Abrigos subtidal throughout the study period

Group	Species	May	June	July	August	September	October
		2000	2000	2000	2000	2000	2000
Nematoda	<i>Actarjania</i> sp.	0	0	0	0	0	0
Nematoda	<i>Actarjania</i> sp. 2	0	0	0	0	0	0
Nematoda	Ammotheristus sp.	$0.2{\pm}0.4$	0	0	0	0	0
Nematoda	Anticoma sp.	0	0	$1.4{\pm}2.2$	$0.4{\pm}0.9$	0	0
Nematoda	Ascolaimus sp.	0	$0.2{\pm}0.4$	0	0	0	0
Nematoda	Calyptronema sp.	$1.8 \pm 2.5$	0	0	0	0	0
Nematoda	<i>Catanema</i> sp.	$41.2 \pm 80.1$	$179.8 \pm 55.6$	$58.6 \pm 52.1$	$45 \pm 11.2$	$97.2 \pm 49.1$	$161 \pm 70$
Nematoda	Ceramonema aff. yunfengi	0	$0.2{\pm}0.4$	$0.2{\pm}0.4$	0	$0.8 \pm 1.8$	$3.8 \pm 5.5$
Nematoda	<i>Metadasynemella</i> sp.	$0.8 {\pm} 1.8$	$4 \pm 7.8$	0	$1.2 \pm 1.1$	$1\pm 2.2$	$0.8 {\pm} 1.8$
Nematoda	Choniolaimus sp.	$0.8 {\pm} 1.8$	$1.2\pm2.7$	0	0	0	0
Nematoda	Chromadorita sp.	$0.4{\pm}0.9$	0	0	0	0	0
Nematoda	<i>Cobbia</i> sp.	0	$0.4{\pm}0.5$	0	0	$0.8 {\pm} 1.8$	$1.4{\pm}1.9$
Nematoda	Cobbia aff. truncata	0	0	0	0	0	0
Nematoda	Daptonema aff. fallax	0	0	0	0	0	0
Nematoda	Daptonema aff. hirsutum	$4.2 \pm 3.3$	$12.8 \pm 8.6$	$0.4{\pm}0.9$	$18.8 \pm 21.1$	$14.6 \pm 19.4$	17±5.9
Nematoda	Dasynemoides sp.	$1.6 \pm 1.1$	$6.6 \pm 2.6$	0	$1 \pm 1.4$	$3\pm3.1$	$2.2 \pm 3.5$
Nematoda	Desmodorella aff. tenuispiculum	$0.6 {\pm} 0.9$	$0.6 \pm 1.3$	0	0	0	0
Nematoda	Diodontolaimus aff. sabulosus	0	0	0	0	0	$0.8 {\pm} 1.8$
Nematoda	Enoploides gryphus	$2.6 \pm 2.9$	$1.6 \pm 0.9$	0	$2.6 \pm 2.4$	$2.8 \pm 3.8$	$2\pm3.1$
Nematoda	Enoplolaimus aff. propinquus	$4.2 \pm 8.3$	0	0	$1.2 \pm 1.1$	0	0
Nematoda	Enoplus sp. 2	$0.4{\pm}0.9$	0	0	0	0	0
Nematoda	Gerlachius sp.	0	0	0	0	0	0
Nematoda	Gonionchus aff. cumbraensis	$0.8{\pm}1.1$	$0.2{\pm}0.4$	0	$0.4{\pm}0.9$	2±1.9	$6 \pm 9.7$
Nematoda	Halalaimus sp. 3	0	0	0	0	0	0
Nematoda	Kraspedonema sp.	0	0	0	0	0	0
Group	Species	November	December	January	February	March	April
	*	2000	2000	2001	2001	2001	2001
Nematoda	Actarjania sp.	$1.4 \pm 3.1$	0	0	0	0	0
Nematoda	Actarjania sp. 2	0	$1.4{\pm}1.9$	0	0	$0.8 \pm 1.8$	0
Nematoda	Ammotheristus sp.	0	0	0	0	0	0
Nematoda	Anticoma sp.	0	0	0	0	$1.4 \pm 3.1$	$0.8 \pm 1.8$
Nematoda	Ascolaimus sp.	0	0	0	0	0	0
Nematoda	Calyptronema sp.	$0.6 \pm 1.3$	$0.8 {\pm} 1.8$	0	0	0	0
Nematoda	<i>Catanema</i> sp.	221.2±168.6	$103.2\pm64.2$	$165.8 \pm 89.4$	333.8±94	$196.6 \pm 99$	177.8±68.8
Nematoda	Ceramonema aff. yunfengi	$1.8 \pm 2.5$	$4.6 \pm 4$	0	$2\pm3.1$	0	0
Nematoda	Metadasynemella sp.	0	$2.4 \pm 3.3$	0	$4.8 \pm 5.8$	$1.6 \pm 2.2$	0
Nematoda	Choniolaimus sp.	0	0	0	0	$1.6 \pm 3.6$	0
Nematoda	Chromadorita sp.	$0.6 \pm 1.3$	$0.8 \pm 1.8$	0	0	0	0
Nematoda	<i>Cobbia</i> sp.	1±2.2	0	0	0	0	0
Nematoda	Cobbia aff. truncata	0	$1.6 \pm 2.2$	0	$0.6 \pm 1.3$	$0.8 \pm 1.8$	0
Nematoda						0	0
Nematoda	Daptonema aff. fallax	$0.8 \pm 1.8$	0	0	0	0	0
Nomatada	Daptonema aff. fallax Daptonema aff. hirsutum	$0.8 \pm 1.8$ 40.6 \pm 49.6	0 54±25.2	0 74.6±50.2	0 26.6±16	0 58±36	0 16.8±10.2
Nematoua	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp.	$0.8 \pm 1.8$ 40.6 \pm 49.6 1 \pm 2.2	$0 \\ 54\pm25.2 \\ 4\pm2.5$	$0 \\ 74.6\pm50.2 \\ 0$	0 26.6±16 3.4±4.1	$0 \\ 58 \pm 36 \\ 0.8 \pm 1.8$	0 16.8±10.2 0.8±1.8
Nematoda	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp. Desmodorella aff. tenuispiculum	$0.8\pm1.8$ 40.6±49.6 1±2.2 0	$0 \\ 54\pm25.2 \\ 4\pm2.5 \\ 0$	0 74.6±50.2 0 0	$0 \\ 26.6\pm 16 \\ 3.4\pm 4.1 \\ 0$	$0 \\ 58\pm 36 \\ 0.8\pm 1.8 \\ 0$	$0 \\ 16.8 \pm 10.2 \\ 0.8 \pm 1.8 \\ 0$
Nematoda Nematoda	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp. Desmodorella aff. tenuispiculum Diodontolaimus aff. sabulosus	$0.8\pm1.8$ $40.6\pm49.6$ $1\pm2.2$ 0 0	$0 \\ 54\pm25.2 \\ 4\pm2.5 \\ 0 \\ 0 \\ 0$	$0 \\ 74.6\pm50.2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$0 \\ 26.6 \pm 16 \\ 3.4 \pm 4.1 \\ 0 \\ 0 \\ 0$	$0 \\ 58\pm 36 \\ 0.8\pm 1.8 \\ 0 \\ 0 \\ 0$	$0 \\ 16.8 \pm 10.2 \\ 0.8 \pm 1.8 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Nematoda Nematoda Nematoda	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp. Desmodorella aff. tenuispiculum Diodontolaimus aff. sabulosus Enoploides gryphus	$0.8\pm 1.8$ 40.6 $\pm$ 49.6 1 $\pm$ 2.2 0 0 6 $\pm$ 10.8	$egin{array}{c} 0 \ 54{\pm}25.2 \ 4{\pm}2.5 \ 0 \ 0 \ 28.2{\pm}12 \end{array}$	0 74.6 $\pm$ 50.2 0 0 0 7.6 $\pm$ 6.7	0 26.6 $\pm$ 16 3.4 $\pm$ 4.1 0 0 9.8 $\pm$ 10.5	0 58 $\pm$ 36 0.8 $\pm$ 1.8 0 0 5.4 $\pm$ 4.2	0 $16.8\pm10.2$ $0.8\pm1.8$ 0 0 $1.8\pm2.5$
Nematoda Nematoda Nematoda Nematoda Nematoda	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp. Desmodorella aff. tenuispiculum Diodontolaimus aff. sabulosus Enoploides gryphus Enoplolaimus aff. provinauus	$\begin{array}{c} 0.8{\pm}1.8\\ 40.6{\pm}49.6\\ 1{\pm}2.2\\ 0\\ 0\\ 6{\pm}10.8\\ 0\end{array}$	$\begin{array}{c} 0 \\ 54\pm25.2 \\ 4\pm2.5 \\ 0 \\ 0 \\ 28.2\pm12 \\ 0 \end{array}$	$\begin{array}{c} 0 \\ 74.6\pm50.2 \\ 0 \\ 0 \\ 0 \\ 7.6\pm6.7 \\ 0 \end{array}$	0 26.6±16 3.4±4.1 0 0 9.8±10.5 0	$0 \\ 58\pm 36 \\ 0.8\pm 1.8 \\ 0 \\ 0 \\ 5.4\pm 4.2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$0 \\ 16.8 \pm 10.2 \\ 0.8 \pm 1.8 \\ 0 \\ 0 \\ 1.8 \pm 2.5 \\ 0 \\ 0 \\ 1.8 \pm 2.5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Nematoda Nematoda Nematoda Nematoda Nematoda	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp. Desmodorella aff. tenuispiculum Diodontolaimus aff. sabulosus Enoploides gryphus Enoplolaimus aff. propinquus Enoplus sp. 2	$\begin{array}{c} 0.8{\pm}1.8\\ 40.6{\pm}49.6\\ 1{\pm}2.2\\ 0\\ 0\\ 6{\pm}10.8\\ 0\\ 0\\ 0\end{array}$	$\begin{array}{c} 0 \\ 54\pm25.2 \\ 4\pm2.5 \\ 0 \\ 0 \\ 28.2\pm12 \\ 0 \\ 0 \\ \end{array}$	$0 \\ 74.6\pm50.2 \\ 0 \\ 0 \\ 0 \\ 7.6\pm6.7 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 26.6±16 3.4±4.1 0 9.8±10.5 0 0	0 $58\pm 36$ $0.8\pm 1.8$ 0 0 $5.4\pm 4.2$ 0 0	$\begin{matrix} 0 \\ 16.8 \pm 10.2 \\ 0.8 \pm 1.8 \\ 0 \\ 0 \\ 1.8 \pm 2.5 \\ 0 \\ 0 \\ 0 \end{matrix}$
Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp. Desmodorella aff. tenuispiculum Diodontolaimus aff. sabulosus Enoploides gryphus Enoplolaimus aff. propinquus Enoplus sp. 2 Gerlachius sp.	$\begin{array}{c} 0.8{\pm}1.8\\ 40.6{\pm}49.6\\ 1{\pm}2.2\\ 0\\ 0\\ 6{\pm}10.8\\ 0\\ 0\\ 1{\pm}2.2 \end{array}$	$\begin{array}{c} 0 \\ 54\pm25.2 \\ 4\pm2.5 \\ 0 \\ 0 \\ 28.2\pm12 \\ 0 \\ 0 \\ 0 \\ 0 \end{array}$	$\begin{array}{c} 0 \\ 74.6\pm50.2 \\ 0 \\ 0 \\ 0 \\ 7.6\pm6.7 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	0 26.6±16 3.4±4.1 0 9.8±10.5 0 0 0	0 $58\pm 36$ $0.8\pm 1.8$ 0 0 $5.4\pm 4.2$ 0 0 0 0	$\begin{matrix} 0 \\ 16.8 \pm 10.2 \\ 0.8 \pm 1.8 \\ 0 \\ 0 \\ 1.8 \pm 2.5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{matrix}$
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Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp. Desmodorella aff. tenuispiculum Diodontolaimus aff. sabulosus Enoploides gryphus Enoplolaimus aff. propinquus Enoplus sp. 2 Gerlachius sp. Gonionchus aff. cumbraensis Halalaimus sp.	$\begin{array}{c} 0.8 \pm 1.8 \\ 40.6 \pm 49.6 \\ 1 \pm 2.2 \\ 0 \\ 0 \\ 6 \pm 10.8 \\ 0 \\ 0 \\ 1 \pm 2.2 \\ 2.2 \pm 2.2 \\ 0 \end{array}$	$\begin{array}{c} 0 \\ 54\pm25.2 \\ 4\pm2.5 \\ 0 \\ 0 \\ 28.2\pm12 \\ 0 \\ 0 \\ 0 \\ 2\pm3.1 \\ 0 \end{array}$	$\begin{matrix} 0 \\ 74.6\pm50.2 \\ 0 \\ 0 \\ 0 \\ 7.6\pm6.7 \\ 0 \\ 0 \\ 0 \\ 0.8\pm1.8 \\ 0 \end{matrix}$	0 26.6±16 3.4±4.1 0 9.8±10.5 0 0 0 0 0 0	0 $58\pm 36$ $0.8\pm 1.8$ 0 0 $5.4\pm 4.2$ 0 0 0 $2.2\pm 3.2$ 0	0 $16.8\pm10.2$ $0.8\pm1.8$ 0 0 $1.8\pm2.5$ 0 0 0 $1.6\pm3.6$ $1.6\pm3.6$
Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp. Desmodorella aff. tenuispiculum Diodontolaimus aff. sabulosus Enoploides gryphus Enoplolaimus aff. propinquus Enoplus sp. 2 Gerlachius sp. Gonionchus aff. cumbraensis Halalaimus sp. Kraspedonema sp.	$\begin{array}{c} 0.8 \pm 1.8 \\ 40.6 \pm 49.6 \\ 1 \pm 2.2 \\ 0 \\ 0 \\ 6 \pm 10.8 \\ 0 \\ 0 \\ 1 \pm 2.2 \\ 2.2 \pm 2.2 \\ 0 \\ 0 \\ 0 \end{array}$	$\begin{array}{c} 0 \\ 54\pm25.2 \\ 4\pm2.5 \\ 0 \\ 0 \\ 28.2\pm12 \\ 0 \\ 0 \\ 0 \\ 2\pm3.1 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$egin{array}{c} 0\\ 74.6\pm50.2\\ 0\\ 0\\ 0\\ 7.6\pm6.7\\ 0\\ 0\\ 0\\ 0.8\pm1.8\\ 0\\ 0\\ 0\\ 0 \end{array}$	0 26.6±16 3.4±4.1 0 9.8±10.5 0 0 0 0 0 0 0 0 0	0 $58\pm 36$ $0.8\pm 1.8$ 0 0 $5.4\pm 4.2$ 0 0 0 $2.2\pm 3.2$ 0 $0.8\pm 1.8$	$\begin{matrix} 0 \\ 16.8 \pm 10.2 \\ 0.8 \pm 1.8 \\ 0 \\ 0 \\ 1.8 \pm 2.5 \\ 0 \\ 0 \\ 0 \\ 1.6 \pm 3.6 \\ 1.6 \pm 3.6 \\ 0 \\ \end{matrix}$
Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda Nematoda	Daptonema aff. fallax Daptonema aff. hirsutum Dasynemoides sp. Desmodorella aff. tenuispiculum Diodontolaimus aff. sabulosus Enoploides gryphus Enoplolaimus aff. propinquus Enoplus sp. 2 Gerlachius sp. Gonionchus aff. cumbraensis Halalaimus sp. Kraspedonema sp. Laimella aff. longicaudata	$\begin{array}{c} 0.8 \pm 1.8 \\ 40.6 \pm 49.6 \\ 1 \pm 2.2 \\ 0 \\ 0 \\ 6 \pm 10.8 \\ 0 \\ 0 \\ 1 \pm 2.2 \\ 2.2 \pm 2.2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0 \\ 54\pm25.2 \\ 4\pm2.5 \\ 0 \\ 0 \\ 28.2\pm12 \\ 0 \\ 0 \\ 2\pm3.1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$egin{array}{c} 0\\ 74.6\pm50.2\\ 0\\ 0\\ 0\\ 7.6\pm6.7\\ 0\\ 0\\ 0\\ 0.8\pm1.8\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 26.6±16 3.4±4.1 0 9.8±10.5 0 0 0 0 0 0 0 0 0 0 0 0	0 $58\pm 36$ $0.8\pm 1.8$ 0 0 $5.4\pm 4.2$ 0 0 0 $2.2\pm 3.2$ 0 $0.8\pm 1.8$ 0	$\begin{matrix} 0 \\ 16.8 \pm 10.2 \\ 0.8 \pm 1.8 \\ 0 \\ 0 \\ 1.8 \pm 2.5 \\ 0 \\ 0 \\ 1.6 \pm 3.6 \\ 1.6 \pm 3.6 \\ 0 \\ 1.6 \pm 3.6 \\ 0 \\ 1.6 \pm 3.6 \end{matrix}$

# Continued from Table 2

Group	Species	May 2000	June	July 2000	August	September	October
Nematoda	Mesacanthion diplechma	1.8+2.5	0.6±0.5	0	0	1+2.2	2 2+3 2
Nomatoda	Metachromadora sp	0	0.0±0.5	0	0 4+0 9	0	0
Nomatoda	Microlaimus sp. 1	06+09	0	0	0.4±0.5	0	0
Nomatoda	Monoposthia aff mirabilis	0.0±0.9	0	0	2 2+3 0	2 8 + 4 8	0
Nematoda	Monoposthia an. mirabilis	$4.4\pm 3.9$	0.2±0.4	0	2.2±3.9	2.0±4.0	0
Nematoda	Monoposinia sp.	$0.4\pm0.9$	0.2±0.4	0	0 4 1 0 0	0	0
Nematoda	Odoniophora all. longiselosa	0.4±0.9	0	0	$0.4 \pm 0.9$	0	0.6±1.5
Nematoda	Odoniophora all. vilion	0	0	0	$5.4 \pm 12.1$	$0.6 \pm 1.3$	0
Nematoda	Oaontophora aff. wieseri	3.2±4.1	4±2	0	$0.4 \pm 0.9$	4.8±5	5.4±4.9
Nematoda	Oncholaimellus calvadosicus	1.4±2.6	1.6±2.3	2±4.5	27.8±35.3	$20\pm15.8$	22.4±9.8
Nematoda	Oncholaimus campylocercoides	7.4±8.6	$10.6 \pm 2.7$	1±2.2	35±56.5	$20.4 \pm 10.9$	66.6±27.8
Nematoda	Onyx aff. perfectus	1.2±1.8	0	0	0	0	0
Nematoda	Paracomesoma sp.	$0.4{\pm}0.9$	0	0	0	0	0
Nematoda	Paralinhomoeus aff. tenuicaudatum	$0.2 \pm 0.4$	$0.8 \pm 1.8$	0	0	$0.6 \pm 1.3$	$1.4{\pm}1.9$
Nematoda	Paralinhomoeus aff. uniovarium	0	0	0	0	0	0
Nematoda	Paralinhomoeus sp.	$1 \pm 1.7$	$4.8 \pm 8.1$	$5.8 \pm 6.6$	$8.8 \pm 5.4$	$8.8 \pm 7.7$	$14\pm12.3$
Nematoda	Paramesonchium sp.	$2.4\pm5.4$	$10.2 \pm 3.7$	$1.6 \pm 1.5$	$23\pm22.8$	$21.6\pm20.3$	$49.8 \pm 40$
Nematoda	Paramonohystera aff. riemanni	0	0	0	0	0	$0.6 \pm 1.3$
Nematoda	Pareurystomina aff. bissonettei	0	$0.2{\pm}0.4$	$0.6 \pm 1.3$	0	0	$1.4{\pm}1.9$
Nematoda	Phanodermopsis sp.	$0.4{\pm}0.9$	0	0	0	0	0
Nematoda	<i>Marylynnia</i> sp.	0	0	0	0	0	0
Nematoda	Pomponema aff. compactum	$3.8 \pm 5$	$2\pm 2.1$	$0.8 \pm 1.1$	$11.4 \pm 19.7$	$6.2 \pm 5.7$	$6.8 {\pm} 10$
Nematoda	Pomponema aff. reducta	0	$16.2 \pm 6.2$	$5.4 \pm 6.5$	$2.8{\pm}2.6$	$6 \pm 3.4$	$12.4 \pm 8.7$
Nematoda	Promonhystera sp.	0	0	0	0	0	$0.6 \pm 1.3$
Nematoda	Pseudochromadora sp. 2	$0.4{\pm}0.9$	$0.2{\pm}0.4$	$0.8 \pm 1.1$	$7.8 \pm 7.5$	$19.8 \pm 14.3$	$7.4{\pm}4.2$
Nematoda	Rhabdodemania aff. imer	$0.2{\pm}0.4$	0	$0.6 {\pm} 0.9$	0	0	0
Nematoda	<i>Rhabdodemania</i> sp2	0	$0.2{\pm}0.4$	0	0	0	0
Nematoda	Sabatieria aff. longisetosa	$1.4{\pm}2.6$	0	0	0	0	0
Group	Species	November	December	January	February	March	April
		2000	2000	2001	2001	2001	2001
Nematoda	Laimella aff. longicaudata	0	0	0	0	0	0
Nematoda	Mesacanthion diplechma	$1.8 \pm 4$	$6\pm 2.5$	$1\pm 2.2$	0	$0.8 {\pm} 1.8$	$1\pm 2.2$
Nematoda	Metachromadora sp.	0	0	0	0	0	0
Nematoda	Microlaimus sp. 1	0	0	0	0	0	0
Nematoda	Monoposthia aff. mirabilis	$1.2\pm2.7$	$3.6 \pm 5.1$	$2.6 \pm 4$	$4.6 \pm 8.2$	0	0
Nematoda	Monoposthia sp.	0	$0.8{\pm}1.8$	0	$1.2 \pm 2.7$	0	0
Nematoda	Odontophora aff. longisetosa	$5.6 \pm 3.7$	$16.4 \pm 13.1$	$11.8 \pm 5.3$	$6.8 \pm 3.9$	$3.2 \pm 5.2$	0
Nematoda	Odontophora aff. villoti	0	0	5±11.2	0	0	$0.8 \pm 1.8$
Nematoda	Odontophora aff. wieseri	$1.4 \pm 3.1$	0	0	0	0	0
Nematoda	Oncholaimellus calvadosicus	$28.2 \pm 45.6$	54±17	$14.6 \pm 15.4$	$10.2 \pm 6.6$	$14.6 \pm 6.3$	$6 \pm 6.7$
Nematoda	Oncholaimus campylocercoides	$126.4 \pm 84.4$	$184.8 \pm 101.6$	$44.2 \pm 44.1$	$19\pm12.4$	$27.2 \pm 12.6$	$9.2\pm7.2$
Nematoda	Onvx aff_ perfectus	0	0.8+1.8	0	0	0	0
Nematoda	Paracomesoma sp	0	$14.4 \pm 11.8$	10.4+7.9	8+7.6	1.6+3.6	0
Nematoda	Paralinhomoeusaff tenuicaudatum	$38 \pm 61$	3.6+8	0	0	0	0
Nematoda	Paralinhomoeus aff uniovarium	1+2.2	0	0	0	$0.8 \pm 1.8$	0
Nomatoda	Paralinhomoguesp	3 9+3 0	6 4+5 1	9±11.2	29+39	11 2+5 5	23 6+25 2
Nematoda	Paramesonchium sp	$33.0\pm 3.5$	35.6+19.4	37+32.9	$11.8 \pm 12$	$11.2\pm 5.5$ $11.4\pm 7$	5.8+2.6
Nematoda	Paramonohystera aff riemanni	0	11 8+8 3	18+4	18+27	16+22	1+2.0
Nomatoda	Paraurystomina off hissonattai	1+2.2	$0.9\pm1.9$	1.6±2.2	$1.0\pm2.7$ $1.9\pm2.7$	$1.0\pm2.2$ $1.6\pm2.2$	112.2
Nomatoda	Dhanodarmonsison	112.2	0.011.0	1.012.2	1.0±2.7	1.012.2	0
Nematoda	Mamhunnia an	1122	0	0	0	0	0
Nometoda	Domponeng off compacture	1 = 2.2	U 20 4 - 21 5	U 21 G-1 E 4 1		U 20152	1 = 2.2
Nematoda	Pomponemu an. compactum	4.4±3.b	30.4±31.5	51.6±54.1	$5.0 \pm 10.9$	3.8±3.3	3.2±3.7
Nematoda	Pomponema att. reducta	12±8.9	3.8±4.5	37.4±17.1	22.2±22	14.6±8.1	13.8±9.9
Nematoda	Promonhystera sp.	0	0	0	0	0	0
Nematoda	Pseudochromadora sp. 2	5.6±6.9	7.2±7.2	$36.8\pm27.6$	7±8	15±18.1	9±17.5
Nematoda	Rhabdodemania aff. imer	0	0	0	0	0	0
Nematoda	Rhabdodemania sp2	0	0	0	0	0	0
Nematoda	Sabatieria aff. longisetosa	0	0	0	0	0	0
Nematoda	Sabatieria aff. elongata	$11.8 \pm 18.4$	$59.4 \pm 13.2$	$5.6 \pm 4.6$	$33.6 \pm 15.3$	$63.8 \pm 30.6$	$151 \pm 41$

Continued	l from	Tab	le	2
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Group	Species	May	June	July	August	September	October
Namatada	Cabationia on 2	2000	2000	2000	2000	2000	2000
Nematoda	Saballeria sp. 3	0	0	0	0	0	0
Nematoda	Selosaballeria all. nilarala	0	0	0	0	0	0
Nematoda	Siphonolaimus sp. 1	16+36	22+27	0 85 2+41 9	0 77 2+56 2	104+22.4	0 50 2+38 9
Nematoda	Siphonolaimus sp. 1	$3.4\pm6.5$	42+121	$447 \pm 1955$	$237.6 \pm 156.3$	$280.8 \pm 114.4$	$30.2\pm 30.3$ 82 2 $\pm 50.7$
Nematoda	Southernia sp. 2	0	42±12.1	447±155.5	257.0±150.5	0	$0.6\pm1.3$
Nematoda	Spirinia parasitifera	$0.2\pm0.4$	0	0	0	0	0.011.5
Nematoda	Synonchiella aff forcens	$6.8\pm6.7$	218+39	34+45	56+42	76+51	22 2+12 4
Nematoda	Tarvaia sp	0.0±0.1	$0.4\pm0.5$	0	0	0	0
Nematoda	Thalassironus sp. 1	0	0.420.5	1+2.2	$0.6 \pm 1.3$	$0.6 \pm 1.3$	0.8+1.8
Nematoda	Thalassironus sp. 2	0	0	0	0	0	$0.8 \pm 1.8$
Nematoda	Theristus sp. 2	0	0	0	0	0	$0.6 \pm 1.3$
Nematoda	Theristus sp. 3	0	0	0	0	0	0
Nematoda	Trefusia sp.	0	0	0	0	0	0
Nematoda	Trileptium aff. parisetum	$1.8 \pm 1.6$	$1\pm 2.2$	$0.6 \pm 0.9$	0	0	0
Nematoda	Vasostoma sp.	0	0	$0.2{\pm}0.4$	$3.6\pm8$	0	$1.2 \pm 1.6$
Nematoda	Viscosia glabra	0	0	0	$0.4{\pm}0.9$	0	0
Nematoda	Xyala striata	$1.4\pm2.2$	$0.6 \pm 1.3$	0	0	0	$0.6 \pm 1.3$
Copepoda	Tryphonema sp.	2.8±3	$0.2{\pm}0.4$	0	$0.6{\pm}0.9$	$0.2 \pm 0.4$	0
Copepoda	Halectinosoma sp.	$1.2 \pm 1.6$	$1.2 \pm 1.3$	0	$2.2 \pm 3.3$	$3.2 \pm 5.5$	$2.6 \pm 3.2$
Copepoda	Ectinosomatidae sp.	$7.2 \pm 10.4$	$0.2{\pm}0.4$	0	$0.6 \pm 1.3$	0	$0.8 {\pm} 1.8$
Copepoda	Tisbe aff. bulbisetosa	$0.4{\pm}0.9$	0	0	0	0	0
Copepoda	Intermedopsyllus sp.	$0.6{\pm}0.9$	0	0	0	0	0
Copepoda	Asellopsis sp.	$0.4{\pm}0.9$	0	0	0	0	0
Copepoda	Harpacticus aff. flexus	$0.8{\pm}1.8$	0	0	1±2.2	2±2.5	3±2.5
Copepoda	Canuella aff. perplexa	0	$0.6 \pm 1.3$	$0.6 \pm 1.3$	$1.2\pm2.2$	$0.8{\pm}1.1$	$1 \pm 1.4$
Copepoda	Paralaophonte sp.	0	0	0	0	$0.4{\pm}0.5$	0
Group	Species	November	December	January	February	March	April
		2000	2000	2001	2001	2001	2001
Nematoda	Sabatieria aff. elongata	$93.2 \pm 31.1$	$90.6 \pm 37.7$	49±23	$49.8 \pm 42.6$	$91.4 \pm 49.1$	$35.6 \pm 32.8$
Nematoda	Sabatieria sp.	0	$1.4 \pm 3.1$	0	0	0	0
Nematoda	Setosabatieria aff. hilarula	0	$0.8 \pm 1.8$	0	0	0	0
Nematoda	Siphonolaimus aff. niger	0	0	$1\pm 2.2$	0	0	0
Nematoda	Siphonolaimus sp. 1	$61.8 \pm 91.4$	$16.6 \pm 19.2$	$52.8 \pm 42.5$	$52.6\pm51$	$63.2 \pm 30.4$	$73.2\pm20.4$
Nematoda	Siphonolaimus sp. 2	$114.6 \pm 138.2$	$15.8 \pm 18.2$	$192.6 \pm 193$	$159.6 \pm 130.8$	$179.4 \pm 86.2$	369.6±173.2
Nematoda	Southernia sp.	0	0	0	0	0	0
Nematoda	Spirinia parasitifera	0	$6\pm 2.5$	5±5.8	$1.2\pm2.7$	0	0
Nematoda	Synonchiella aff. forceps	$11.2 \pm 12.1$	$19.2\pm5.1$	11.8±8	20±12.4	23.6±12.6	$12.4 \pm 16.3$
Nematoda	Tarvaia sp.	0	0	0	0	0	0
Nematoda	Thalassironus sp. 1	0	0	0	0	0	0
Nematoda	Thalassironus sp. 2	0.8±1.8	0	0	0	0	0.8±1.8
Nematoda	Theristus sp. 2	0	0	0	0	0	0
Nematoda	Theristus sp. 3	0	1.6±3.6	0	0	0	0
Nematoda	<i>Trefusia</i> sp.	0	$2.2 \pm 4.9$	0	0	0	0
Nematoda	Truephum an. pariselum	0	0.8±1.8	0	0	0	0.8±1.8
Nematoda	Vaccatomacon	16122	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Nematoda	Vasostoma sp.	1.6±2.3	0	0.8±1.8	0.8±1.8	0	0
Nematoda	Vasostoma sp. Viscosia glabra	$1.6\pm 2.3$ 0	0 0 7.4105	0.8±1.8 0	$0.8 \pm 1.8$ 0	0 2.4±3.6	0 1±2.2
Nematoda	Vasostoma sp. Viscosia glabra Xyala striata Trankon on a p	$1.6\pm 2.3$ 0 $1.6\pm 2.3$	$0 \\ 0 \\ 7.4 \pm 8.5$	$0.8\pm1.8$ 0 0	$0.8\pm1.8$ 0 $1.2\pm2.7$	0 2.4±3.6 0.8±1.8	$0 \\ 1\pm 2.2 \\ 1\pm 2.2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Nematoda Copepoda	Vasostoma sp. Viscosia glabra Xyala striata Tryphonema sp. Halastingsoma sp.	$1.6\pm 2.3$ 0 $1.6\pm 2.3$ $0.4\pm 0.5$	0 0 7.4 $\pm$ 8.5 1 $\pm$ 1 9.2 $\pm$ 4.7	$0.8\pm1.8$ 0 0 0.4 $\pm0.5$ 7 2 $\pm$ 2 2	$0.8\pm1.8$ 0 $1.2\pm2.7$ $0.2\pm0.4$ $3.4\pm2.2$	0 2.4±3.6 0.8±1.8 0.6±0.9	$ \begin{array}{c} 0 \\ 1\pm2.2 \\ 1\pm2.2 \\ 0 \\ 7\pm10.2 \\ \end{array} $
Nematoda Copepoda Copepoda	Vasostoma sp. Viscosia glabra Xyala striata Tryphonema sp. Halectinosoma sp. Ectinosomatidae sp.	$1.6\pm 2.3 \\ 0 \\ 1.6\pm 2.3 \\ 0.4\pm 0.5 \\ 4.4\pm 4.6 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	0 0 7.4 $\pm$ 8.5 1 $\pm$ 1 9.2 $\pm$ 4.7 0.8 $\pm$ 1.3	$0.8\pm1.8$ 0 $0.4\pm0.5$ $7.2\pm3.3$	$0.8\pm1.8$ 0 $1.2\pm2.7$ $0.2\pm0.4$ $3.4\pm2.3$ 0	0 2.4±3.6 0.8±1.8 0.6±0.9 9.4±2.5 0	$ \begin{array}{c} 0 \\ 1\pm2.2 \\ 1\pm2.2 \\ 0 \\ 7\pm10.3 \\ 0 \end{array} $
Nematoda Copepoda Copepoda Copepoda	Vasostoma sp. Viscosia glabra Xyala striata Tryphonema sp. Halectinosoma sp. Ectinosomatidae sp. Tisbo off hulbicatosa	$1.6\pm 2.3 \\ 0 \\ 1.6\pm 2.3 \\ 0.4\pm 0.5 \\ 4.4\pm 4.6 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$0 \\ 0 \\ 7.4 \pm 8.5 \\ 1 \pm 1 \\ 9.2 \pm 4.7 \\ 0.8 \pm 1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$ \begin{array}{c} 0.8 \pm 1.8 \\ 0 \\ 0 \\ 0.4 \pm 0.5 \\ 7.2 \pm 3.3 \\ 0 \\ 0 \\ 0 \end{array} $	$0.8\pm 1.8 \\ 0 \\ 1.2\pm 2.7 \\ 0.2\pm 0.4 \\ 3.4\pm 2.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$0$ 2.4 $\pm$ 3.6 0.8 $\pm$ 1.8 0.6 $\pm$ 0.9 9.4 $\pm$ 2.5 0 0	$0 \\ 1\pm 2.2 \\ 1\pm 2.2 \\ 0 \\ 7\pm 10.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Nematoda Nematoda Copepoda Copepoda Copepoda Copepoda	Vasostoma sp. Viscosia glabra Xyala striata Tryphonema sp. Halectinosoma sp. Ectinosomatidae sp. Tisbe aff. bulbisetosa Intermedoneviluesp.	$1.6\pm 2.3 \\ 0 \\ 1.6\pm 2.3 \\ 0.4\pm 0.5 \\ 4.4\pm 4.6 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$0 \\ 0 \\ 7.4\pm 8.5 \\ 1\pm 1 \\ 9.2\pm 4.7 \\ 0.8\pm 1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$0.8\pm1.8$ 0 $0.4\pm0.5$ $7.2\pm3.3$ 0 0 0	$\begin{array}{c} 0.8 \pm 1.8 \\ 0 \\ 1.2 \pm 2.7 \\ 0.2 \pm 0.4 \\ 3.4 \pm 2.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$0$ 2.4 $\pm$ 3.6 0.8 $\pm$ 1.8 0.6 $\pm$ 0.9 9.4 $\pm$ 2.5 0 0 0	$0 \\ 1\pm 2.2 \\ 1\pm 2.2 \\ 0 \\ 7\pm 10.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Nematoda Copepoda Copepoda Copepoda Copepoda Copepoda	Vasostoma sp. Viscosia glabra Xyala striata Tryphonema sp. Halectinosoma sp. Ectinosomatidae sp. Tisbe aff. bulbisetosa Intermedopsyllus sp. Asellonsis sp.	$1.6\pm 2.3 \\ 0 \\ 1.6\pm 2.3 \\ 0.4\pm 0.5 \\ 4.4\pm 4.6 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 0 \\ 0 \\ 7.4\pm 8.5 \\ 1\pm 1 \\ 9.2\pm 4.7 \\ 0.8\pm 1.3 \\ 0 \\ 0 \\ 0 \\ 0 \end{array}$	$0.8\pm1.8$ 0 0 0.4±0.5 7.2±3.3 0 0 0 0	$\begin{array}{c} 0.8 \pm 1.8 \\ 0 \\ 1.2 \pm 2.7 \\ 0.2 \pm 0.4 \\ 3.4 \pm 2.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$0$ 2.4 $\pm$ 3.6 0.8 $\pm$ 1.8 0.6 $\pm$ 0.9 9.4 $\pm$ 2.5 0 0 0 0	$\begin{array}{c} 0 \\ 1\pm2.2 \\ 1\pm2.2 \\ 0 \\ 7\pm10.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$
Nematoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda	Vasostoma sp. Viscosia glabra Xyala striata Tryphonema sp. Halectinosoma sp. Ectinosomatidae sp. Tisbe aff. bulbisetosa Intermedopsyllus sp. Asellopsis sp. Hamacticus aff. dayus	$1.6\pm 2.3 \\ 0 \\ 1.6\pm 2.3 \\ 0.4\pm 0.5 \\ 4.4\pm 4.6 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 0 \\ 0 \\ 7.4\pm 8.5 \\ 1\pm 1 \\ 9.2\pm 4.7 \\ 0.8\pm 1.3 \\ 0 \\ 0 \\ 0 \\ 24\pm 12.3 \end{array}$	$0.8\pm 1.8$ 0 $0.4\pm 0.5$ $7.2\pm 3.3$ 0 0 0 0 0 0 $1.4\pm 3.1$	$\begin{array}{c} 0.8 \pm 1.8 \\ 0 \\ 1.2 \pm 2.7 \\ 0.2 \pm 0.4 \\ 3.4 \pm 2.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 0 \\ 2.4 \pm 3.6 \\ 0.8 \pm 1.8 \\ 0.6 \pm 0.9 \\ 9.4 \pm 2.5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$ \begin{array}{c} 0 \\ 1\pm2.2 \\ 1\pm2.2 \\ 0 \\ 7\pm10.3 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $
Nematoda Nematoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda	Vasostoma sp. Viscosia glabra Xyala striata Tryphonema sp. Halectinosoma sp. Ectinosomatidae sp. Tisbe aff. bulbisetosa Intermedopsyllus sp. Asellopsis sp. Harpacticus aff. flexus Canuella aff. perplaya	$1.6\pm 2.3 \\ 0 \\ 1.6\pm 2.3 \\ 0.4\pm 0.5 \\ 4.4\pm 4.6 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0.2\pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 0 \\ 0 \\ 7.4\pm 8.5 \\ 1\pm 1 \\ 9.2\pm 4.7 \\ 0.8\pm 1.3 \\ 0 \\ 0 \\ 0 \\ 24\pm 12.3 \\ 0 \end{array}$	$0.8\pm 1.8$ 0 0 0.4 $\pm 0.5$ 7.2 $\pm 3.3$ 0 0 0 1.4 $\pm 3.1$ 0	$\begin{array}{c} 0.8 \pm 1.8 \\ 0 \\ 1.2 \pm 2.7 \\ 0.2 \pm 0.4 \\ 3.4 \pm 2.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \pm 1 \end{array}$	0 2.4±3.6 0.8±1.8 0.6±0.9 9.4±2.5 0 0 0 0 0 8.4±4.9	$\begin{array}{c} 0 \\ 1\pm2.2 \\ 1\pm2.2 \\ 0 \\ 7\pm10.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Nematoda Nematoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda	Vasostoma sp. Viscosia glabra Xyala striata Tryphonema sp. Halectinosoma sp. Ectinosomatidae sp. Tisbe aff. bulbisetosa Intermedopsyllus sp. Asellopsis sp. Harpacticus aff. flexus Canuella aff. perplexa Paralaonhonte sp.	$1.6\pm 2.3 \\ 0 \\ 1.6\pm 2.3 \\ 0.4\pm 0.5 \\ 4.4\pm 4.6 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0.2\pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 0 \\ 0 \\ 7.4\pm 8.5 \\ 1\pm 1 \\ 9.2\pm 4.7 \\ 0.8\pm 1.3 \\ 0 \\ 0 \\ 24\pm 12.3 \\ 0 \\ 0 \\ 0 \end{array}$	$0.8\pm 1.8$ 0 $0.4\pm 0.5$ $7.2\pm 3.3$ 0 0 0 $1.4\pm 3.1$ 0 0	$\begin{array}{c} 0.8 \pm 1.8 \\ 0 \\ 1.2 \pm 2.7 \\ 0.2 \pm 0.4 \\ 3.4 \pm 2.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \pm 1 \\ 0 \end{array}$	$\begin{array}{c} 0\\ 2.4{\pm}3.6\\ 0.8{\pm}1.8\\ 0.6{\pm}0.9\\ 9.4{\pm}2.5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 8.4{\pm}4.9\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 1\pm2.2 \\ 1\pm2.2 \\ 0 \\ 7\pm10.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Nematoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda Copepoda	Vasostoma sp. Viscosia glabra Xyala striata Tryphonema sp. Halectinosoma sp. Ectinosomatidae sp. Tisbe aff. bulbisetosa Intermedopsyllus sp. Asellopsis sp. Harpacticus aff. flexus Canuella aff. perplexa Paralaophonte sp. Aricidea (Acmira) catheringa	$1.6\pm 2.3 \\ 0 \\ 1.6\pm 2.3 \\ 0.4\pm 0.5 \\ 4.4\pm 4.6 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0.2\pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 0 \\ 0 \\ 7.4\pm 8.5 \\ 1\pm 1 \\ 9.2\pm 4.7 \\ 0.8\pm 1.3 \\ 0 \\ 0 \\ 24\pm 12.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$0.8\pm 1.8$ 0 $0.4\pm 0.5$ $7.2\pm 3.3$ 0 0 0 $1.4\pm 3.1$ 0 0 0 0 0 0 0 0	$\begin{array}{c} 0.8 \pm 1.8 \\ 0 \\ 1.2 \pm 2.7 \\ 0.2 \pm 0.4 \\ 3.4 \pm 2.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \pm 1 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} 0\\ 2.4{\pm}3.6\\ 0.8{\pm}1.8\\ 0.6{\pm}0.9\\ 9.4{\pm}2.5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 8.4{\pm}4.9\\ 0\\ 0\\ 0\\ 0\\ \end{array}$	$\begin{array}{c} 0 \\ 1\pm2.2 \\ 1\pm2.2 \\ 0 \\ 7\pm10.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $

Group         Species         May         June         June         June         June         June         Species         2000	Continued fro	m Table 2						
Pubychatan         Brania arminia         0         0.4±0.9         0         0         0         0           Pubychatan         Automasus latericeus         0.240.4         0         0         0.2±0.4         0           Pubychatan         Carrifornis tenisculata         0         0         0.2±0.4         0         0         0.2±0.4         0         0         0.4±0.9           Pubychatan         Carrifornis tenisculata         0         0         0         0         0         0.4±0.9           Pubychatan         Cirrophorus perdildoensis         0.2±0.4         0	Group	Species	May 2000	June 2000	July 2000	August 2000	September 2000	October 2000
Pubycheate         Captionnastis minimus         0         0.440.9         0         0.821.3         0.224.4         0           Pubycheate         Cauleriella biscultati         0         0         0.224.4         0         0           Pubycheate         Cauleriella biscultati         0         0         0         0         0         0           Pubycheate         Cirruphorus periadhessis         0.224.04         0         0         0         0         0           Pubycheate         Exegone brevintermetati         0         0.424.09         0         0         0         0.224.04           Pubycheate         Depolschate         Segone brevintermetati         0         0.224.04         0         0         0         0.224.04         0 <td>Polychaeta</td> <td>Brania arminii</td> <td>0</td> <td><math>0.4{\pm}0.9</math></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Polychaeta	Brania arminii	0	$0.4{\pm}0.9$	0	0	0	0
Polychaeta         Notomasta latericeus         0.24.04         0         0         0         0.24.04.0         0           Polychaeta         Cirriponia tentaculata         0         0         0         0         0         0           Polychaeta         Cirriponia tentaculata         0         0         0         0         0         0         0           Polychaeta         Cirripona peridolonis         0.24.04.4         0         0         0         0         0         0           Polychaeta         Displo uncinato         0.40.9         0	Polychaeta	Capitomastus minimus	0	$0.4{\pm}0.9$	0	$0.8 \pm 1.3$	$0.2{\pm}0.4$	0
Polycheara         Caulerial bioculari         0         0         0.2±0.4         0         0         0         0         0           Polycheara         Cirrophorns furcatus         0         0         0.4±0.3         0.4±0.3         0.4±0.3         0.0         0         0         0           Polycheara         Displo inchinito         0         0.4±0.3         0.4±0.3         0.0         0 <td>Polychaeta</td> <td>Notomastus latericeus</td> <td><math>0.2{\pm}0.4</math></td> <td>0</td> <td>0</td> <td>0</td> <td><math>0.2{\pm}0.4</math></td> <td>0</td>	Polychaeta	Notomastus latericeus	$0.2{\pm}0.4$	0	0	0	$0.2{\pm}0.4$	0
Polychaera         Cirrigons is transmit entraculate         0         0         0         0         0         0         0           Polychaera         Cirrophors perdideensis         0.240.4         0         0         0         0           Polychaera         Dispio unchaera         0         0.440.9         0         0         0         0           Polychaera         Excogne brevianternitate         0         0         0         0.0         0.0         0.0         <	Polychaeta	Cauleriella bioculata	0	0	$0.2{\pm}0.4$	0	0	0
Pubycharca         Chronpborns furcatus         0         0         0         0         0         0         0           Pubychara         Dispin nurinatu         0         0.44:0.9         0.44:0.9         0         0         0           Pubychara         Exogene breinsementatu         0.42:0.9         0         0         0.4         0.8           Pubychara         Microphthalmuns pseudoberrans         0.42:0.4         0         0         0         0         0           Pubychara         Parapinonoglis macanonesiensis         0         0.2:0.4         0         0         0         0           Pubychara         Parapinonoglis minutus         0         0.2:0.4         0.2:0.4         0.4         0         0         0           Pubychara         Parapinonoglis minutus         0.4:2:0.3         0.4:0.5         0.2:4:0.4         0.0         0	Polychaeta	Cirriformia tentaculata	0	0	0	0	0	0
Polycheata         Chrophonzspendidensis         0.24:0.4         0         0         0         0           Polycheata         Exogone brevianternotata         0         0         0.4:0.9         0.4:0.9         0.0         0.0         0.0           Polycheata         Chrolin bicornis         0.4:0.9         0.0         0.0         0.0         0.0           Polycheata         Chrolin bicornis         0.2:0.4         0         0         0.0         0.0           Polycheata         Parapionogylis macaronesimis         0.0         0.2:0.4         0.0         0.0         0.0           Polycheata         Parapionogylis minuta         0.0         0.2:0.4         0.4:0.5         0.0         <	Polychaeta	Cirrophorus furcatus	0	0	0	0	0	$0.4{\pm}0.9$
Palychaeta         Dispis uncinata         0         0.44.0.9         0.44.0.9         0         0         0         0           Polychaeta         Microphtalmins pseudoberrans         0.44.0.9         0 <td>Polychaeta</td> <td>Cirrophorus perdidoensis</td> <td><math>0.2{\pm}0.4</math></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Polychaeta	Cirrophorus perdidoensis	$0.2{\pm}0.4$	0	0	0	0	0
Polychiaeta         Exogone breinamennana         0         0         0         0         0         0         0         0           Polychiaeta         Ophelia bicorris         0.24:0.4         0         0         0         0         0           Polychiaeta         Parapinosylis macromestensis         0 <td>Polychaeta</td> <td>Dispio uncinata</td> <td>0</td> <td><math>0.4{\pm}0.9</math></td> <td><math>0.4{\pm}0.9</math></td> <td>0</td> <td>0</td> <td>0</td>	Polychaeta	Dispio uncinata	0	$0.4{\pm}0.9$	$0.4{\pm}0.9$	0	0	0
Polychaeta         Microphilabilizatii         0.4±0.9         0         0         0.4         0.8           Polychaeta         Protodrillisatii         0.4±0.4         0         0         0         0           Polychaeta         Parapinonsyllis minuta         0         0.2±0.4         0         0         0         0           Polychaeta         Parapinonsyllis macaromeismis         0         0.2±0.4         0.2±0.4         0.0         0	Polychaeta	Exogone breviantennata	0	0	0	0	0	$0.2{\pm}0.4$
Polychaeta         Ophela bicornis         0.2±0.4         0         0         0         0         0           Polychaeta         Paraphonosyllis minitua         0 <td>Polychaeta</td> <td>Microphthalmus pseudoaberrans</td> <td><math>0.4{\pm}0.9</math></td> <td>0</td> <td>0</td> <td>0</td> <td>0.4</td> <td>0.8</td>	Polychaeta	Microphthalmus pseudoaberrans	$0.4{\pm}0.9$	0	0	0	0.4	0.8
Polychaeta         Protokritusaff. rubropharyngeus $0.2\pm 0.4$ 0         0         0         0         0           Polychaeta         Parapionosyllis minuta         0 $0.2\pm 0.4$ 0         0         0           Polychaeta         Parapionosyllis minuta         0 $0.2\pm 0.4$ <td>Polychaeta</td> <td>Ophelia bicornis</td> <td><math>0.2{\pm}0.4</math></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Polychaeta	Ophelia bicornis	$0.2{\pm}0.4$	0	0	0	0	0
Polycheeta         Parapionosyllis macaranesiansis         0         0         0         0         0         0           Polycheeta         Parapionosyllis n.sp.         0         0         0.2±0.4         0.2±0.4         0.2±0.4         0.0           Polychaeta         Perinersis curiferias         0.4±0.5         9.6±20.4         0.2±0.4         0.4±0.5         0.2±0.4         0.2±0.4         0.2±0.4         0.2±0.4         0.2±0.4         0.2±0.4         0.2±0.4         0.2±0.4         0.2±0.4         0.2±0.4         0.0         0	Polychaeta	Protodrilus aff. rubropharyngeus	$0.2{\pm}0.4$	0	0	0	0	0
Polychaeta         Parapionosyllis minuta         0         <	Polychaeta	Parapionosyllis macaronesiensis	0	0	0	0	0	0
Polychaeta         Parapsionsyllis n. sp.         0         0         0.2±0.4         0.2±0.4         0.0         0           Polychaeta         Perinersis curariensis         0.4±0.5         9.6±20.4         0.2±0.4         0.4±0.5         0.6±20.4         0.2±0.4         0.2±0.4         0           Polychaeta         Prinordsorplifaspinisetosa         0         1.2±0.8         1.4±2.1         1.4±3.1         0.2±0.4         0           Polychaeta         Prinordsorplifaspinisetosa         0         1.2±0.8         0.4±2.1         1.4±3.1         0.2±0.4         0           Polychaeta         Schoredella faubieri         0.6±0.5         1.2±0.8         0	Polychaeta	Parapionosyllis minuta	0	$0.2 \pm 0.4$	0	0	0	0
Polychaeta         Perinversis cultrifera         0         <	Polychaeta	Parapionosyllis n. sp.	0	0	$0.2 \pm 0.4$	$0.2 \pm 0.4$	0	0
Polychaeta         Peritia amphophthalma         1 $h$ 22         0	Polychaeta	Perinereis cultrifera	0	0	0	0	0	0
Polychaeta         Petitia amphophihalma         1 $\pm 2.2$ 0         0         0         0         0           Polychaeta         Prionzyliis spinistosa         0         1.2 $\pm 0.8$ 1.4 $\pm 3.1$ 1.4 $\pm 3.1$ 0.2 $\pm 0.4$ 0         0         0         0           Polychaeta         Prionzyliis spinistosa         0.2 $\pm 0.4$ 0.8 $\pm 1.3$ 0.8         1.6 $\pm 2.1$ 1.2 $\pm 1.1$ Polychaeta         Schoeredella laubieri         0.6 $\pm 0.5$ 1.2 $\pm 0.8$ 0         0	Polychaeta	Periquesta canariensis	$0.4{\pm}0.5$	$9.6 \pm 20.4$	$0.2 \pm 0.4$	$0.4{\pm}0.5$	$0.2 \pm 0.4$	$0.2 \pm 0.4$
Polychaeta         Pronosyllis spinistosa         0         1.2±0.8         1.4±2.1         1.4±3.1         0.2±0.4         0           Polychaeta         Rhynchospi glutaea         0.6±0.9         0.2±0.4         0         0         0         0           Polychaeta         Schoerdella laubieri         0.6±0.5         1.2±0.8         0         0         0.4±0.5         0           Polychaeta         Spia decoratus         0.2±0.4         0         0         0         0         0           Polychaeta         Spia decoratus         0.2±0.4         0         0         0         0         0         0           Polychaeta         Spia decoratus         0.6±1.3         4.6±2.2         2.4±2.8         7.6±3.8         3.8±5.4         4.2±1.6           Polychaeta         Streptosyllis campoyi         0.6±0.9         0	Polychaeta	Petitia amphophthalma	$1\pm 2.2$	0	0	0	0	0
Polychaeta         Protodorvillea kefersteini         0.2±0.4         0	Polychaeta	Pionosyllis spinisetosa	0	$1.2 \pm 0.8$	$1.4\pm2.1$	$1.4 \pm 3.1$	$0.2 \pm 0.4$	0
Polychaeta         Rhynchospio glutaea         0.6±0.5         0.2±0.4         0.8         1.6±2.1         1.2±1.1           Polychaeta         Schoeredalla laubieri         0.6±0.5         1.2±0.8         0         0         0.4±0.5         0           Polychaeta         Sphaerosyllis xarifae         0         0         0         0         0         0         0           Polychaeta         Spio decoratus         0.2±0.4         0 </td <td>Polychaeta</td> <td>Protodorvillea kefersteini</td> <td><math>0.2 \pm 0.4</math></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Polychaeta	Protodorvillea kefersteini	$0.2 \pm 0.4$	0	0	0	0	0
Polychaeta         Schoeredella laubieri $0.6\pm0.5$ $1.2\pm0.8$ $0$ $0$ $0.6\pm0.5$ $0.2\pm0.8$ $0$ <th< td=""><td>Polychaeta</td><td>Rhynchospio glutaea</td><td><math>0.6 \pm 0.9</math></td><td><math>0.2 \pm 0.4</math></td><td><math>0.8 \pm 1.3</math></td><td>0.8</td><td><math>1.6\pm2.1</math></td><td><math>1.2 \pm 1.1</math></td></th<>	Polychaeta	Rhynchospio glutaea	$0.6 \pm 0.9$	$0.2 \pm 0.4$	$0.8 \pm 1.3$	0.8	$1.6\pm2.1$	$1.2 \pm 1.1$
Polychaeta         Scoloplos armiger         0<	Polychaeta	Schoeredella laubieri	$0.6 \pm 0.5$	$1.2\pm0.8$	0	0	$0.4{\pm}0.5$	0
Polychaeta         Spinaerosyllis xarifae         0         0         0         0         0         0         0           Polychaeta         Spio filicornis $0.6\pm 1.3$ $4.6\pm 2.2$ $2.4\pm 2.8$ $7.6\pm 3.8$ $3.8\pm 5.4$ $4.2\pm 1.6$ Polychaeta         Streptosyllis isidentata $3.6\pm 3.5$ $0.6\pm 0.5$ $0$ $0$ $0$ $0.2\pm 0.4$ Polychaeta         Syllides edentulus $0$ $0$ $0.4\pm 0.9$ $0$ $0$ $0.2\pm 0.4$ Polychaeta         Aricidea (Acmira) catherinae $0$ $0$ $0.4\pm 0.9$ $0.0$ $0$ $0.2\pm 0.4$ Polychaeta         Brania armini $0$ $0$ $0$ $0.0$ $0$	Polychaeta	Scoloplos armiger	0	0	0	0	0	0
Polychaeta         Spio filocorratus $0.2\pm 0.4$ $0$ <th< td=""><td>Polychaeta</td><td>Sphaerosyllis xarifae</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	Polychaeta	Sphaerosyllis xarifae	0	0	0	0	0	0
Polychaeta         Spip filtcornis $0.6\pm 1.3$ $4.6\pm 2.2$ $2.4\pm 2.8$ $7.6\pm 3.8$ $3.8\pm 5.4$ $4.2\pm 1.6$ Polychaeta         Streptosyllis bidentata $3.6\pm 3.5$ $0.6\pm 0.5$ $0$ $0.2\pm 0.4$ $0$ $0$ Polychaeta         Syllides edentulus $0$ $0$ $0.4\pm 0.9$ $0$ $0$ $0$ Group         Species         November         December         January         February         March         April           2000         2000         2001 <td>Polychaeta</td> <td>Spio decoratus</td> <td><math>0.2 \pm 0.4</math></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Polychaeta	Spio decoratus	$0.2 \pm 0.4$	0	0	0	0	0
Polychaeta         Streptosyllis bilis campoyi         0.6±0.9         0         0         0.2±0.4         0         0           Polychaeta         Syllides edentulus         0         0         0.4±0.9         0         0         0           Group         Species         November         December         January         February         March         April           Polychaeta         Aricidea (Acmira) catherinae         0         0         0         0.4±0.9         0         0           Polychaeta         Aricidea (Acmira) catherinae         0         0         0         0.4±0.9         0         0           Polychaeta         Crapitomastus minimus         0.4±0.9         0.4±0.4         0	Polychaeta	Spio filicornis	$0.6 \pm 1.3$	$4.6 \pm 2.2$	$2.4\pm2.8$	$7.6 \pm 3.8$	$3.8 \pm 5.4$	$4.2 \pm 1.6$
Polychaeta         Syrilides edentulus         0	Polychaeta	Streptosyllis bidentata	$3.6 \pm 3.5$	$0.6 \pm 0.5$	0	$0.2 \pm 0.4$	0	0
Polychaeta         Sylindes edentituitis         0         2001	Polychaeta	Streptosyllis campoyi	$0.6 \pm 0.9$	0	0	0	0	$0.2 \pm 0.4$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Polychaeta	Syllides edentulus	0	0	$0.4{\pm}0.9$	0	0	0
PolychaetaAricidea (Acmira) catherinae00000.4±0.900PolychaetaBrania arminii00000000PolychaetaCapitomastus minimus0.4±0.90.4±0.50.2±0.40.2±0.40.2±0.4000PolychaetaNotomastus latericeus00000000PolychaetaCauleriella bioculata00000000PolychaetaCirrophorus furcatus0.2±0.4000000PolychaetaCirrophorus perdidoensis0000000PolychaetaCirrophorus perdidoensis0000000PolychaetaDispio uncinata00000000PolychaetaDispio uncinata00000000PolychaetaDispio uncinata00000000PolychaetaPotodrilus älf. rubropharyngeus0000000PolychaetaParapionosyllis macaronesiensis0000000PolychaetaParapionosyllis n.s.p.00000000PolychaetaPerinereis cultrifera0.2±0.40.8±0.40.2±0.40.8±0.4 <td>Constant</td> <td>Species</td> <td>Novombor</td> <td>December</td> <td>Ionuoru</td> <td>Fobruary</td> <td>March</td> <td>April</td>	Constant	Species	Novombor	December	Ionuoru	Fobruary	March	April
PolychaetaArcicida (Acmira) catherinae0000000PolychaetaBrania arminii0000000PolychaetaCapitomastus intininus0.4 $\pm$ 0.90.4 $\pm$ 0.50.2 $\pm$ 0.40.2 $\pm$ 0.400PolychaetaCauleriella bioculata0000000PolychaetaCirrifornia tentaculata0000000PolychaetaCirrophorus furcatus0.2 $\pm$ 0.4000000PolychaetaCirrophorus perdidoensis00000000PolychaetaCirrophorus perdidoensis00000000PolychaetaDispio uncinata000000000PolychaetaDispio uncinata000000000PolychaetaOphelia bicornis000000000PolychaetaParapionosyllis minuta000000000PolychaetaParapionosyllis in nip000000000PolychaetaParapionosyllis in nip00000000000PolychaetaPeriquesta canariensis0.8	Group	opeeles	November	December	January	rebruary	watch	April
Polychaeta         Brania arminii         0         0         0         0         0         0         0           Polychaeta         Capitomastus mininus $0.4\pm 0.9$ $0.4\pm 0.5$ $0.2\pm 0.4$ $0.2\pm 0.$	Group	opecies	2000	2000	2001	2001	2001	2001
Polychaeta PolychaetaCapitomastus minimus $0.4\pm 0.3$ $0.4\pm 0.5$ $0.2\pm 0.4$ $0.2\pm 0.4$ $0$ $0$ Polychaeta PolychaetaCauleriella bioculata000000Polychaeta Cauleriella bioculata0.2\pm 0.4000000.2\pm 0.4Polychaeta Cirrifornia tentaculata0.2\pm 0.400000.2\pm 0.4Polychaeta Cirrophorus perdioensis0000000Polychaeta Dispio uncinata000.2\pm 0.40000Polychaeta PolychaetaDispio uncinata0000000Polychaeta PolychaetaMicrophtalmus pseudoaberrans Donosyllis micaronesiensis00000000Polychaeta PolychaetaProtodrilusaff. rubropharyngeus000 </td <td>Polychaeta</td> <td>Aricidea (Acmira) catherinae</td> <td>2000 0</td> <td>2000 0</td> <td>2001 0</td> <td>2001 0.4±0.9</td> <td>2001 0</td> <td>2001 0</td>	Polychaeta	Aricidea (Acmira) catherinae	2000 0	2000 0	2001 0	2001 0.4±0.9	2001 0	2001 0
Polychaeta         Notomastus tatericeus         0 <th< td=""><td>Polychaeta Polychaeta</td><td>Aricidea (Acmira) catherinae Brania arminii</td><td>2000 0 0</td><td>2000 0 0</td><td>2001 0 0</td><td>2001 0.4±0.9 0</td><td>2001 0 0</td><td>2001 0 0</td></th<>	Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii	2000 0 0	2000 0 0	2001 0 0	2001 0.4±0.9 0	2001 0 0	2001 0 0
Polychaeta         Cauterietia bioculata         0         0         0         0         0         0         0         0           Polychaeta         Cirrophornis furcatus         0.2±0.4         0         0         0         0.2±0.4           Polychaeta         Cirrophorus perdidoensis         0         0         0         0         0.2±0.4           Polychaeta         Dispio uncinata         0         0         0.2±0.4         0         0         0           Polychaeta         Dispio uncinata         0         0         0.2±0.4         0         0         0           Polychaeta         Microphthalmus pseudoaberrans         0         0.2±0.4         0         0         0         0           Polychaeta         Paropionosyllis minus pseudoaberrans         0 </td <td>Polychaeta Polychaeta Polychaeta</td> <td>Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus</td> <td>2000 0 0.4±0.9</td> <td>0 0.4±0.5</td> <td>2001 0 0.2±0.4</td> <td>2001 0.4±0.9 0 0.2±0.4</td> <td>2001 0 0 0</td> <td>2001 0 0 0</td>	Polychaeta Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus	2000 0 0.4±0.9	0 0.4±0.5	2001 0 0.2±0.4	2001 0.4±0.9 0 0.2±0.4	2001 0 0 0	2001 0 0 0
PolychaetaCurrigornia tentaculata00 <t< td=""><td>Polychaeta Polychaeta Polychaeta Polychaeta</td><td>Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus</td><td>2000 0 0.4±0.9 0</td><td>2000 0 0.4±0.5 0</td><td>2001 0 0.2±0.4 0</td><td>2001 0.4±0.9 0 0.2±0.4 0</td><td>0 0 0 0 0</td><td>2001 0 0 0 0</td></t<>	Polychaeta Polychaeta Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus	2000 0 0.4±0.9 0	2000 0 0.4±0.5 0	2001 0 0.2±0.4 0	2001 0.4±0.9 0 0.2±0.4 0	0 0 0 0 0	2001 0 0 0 0
Polychaeta         Chrophorus furcatus         0.2±0.4         0         0         0         0         0.6±0.9           Polychaeta         Cirrophorus perdidoensis         0	Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus Cauleriella bioculata	0 0 0.4±0.9 0	0 0 0.4±0.5 0	2001 0 0.2±0.4 0	2001 0.4±0.9 0 0.2±0.4 0	0 0 0 0 0 0 0	2001 0 0 0 0 0 0
Polychaeta         Chrophonus perdudoensis         0         0         0         0         0         0         0         0         0           Polychaeta         Dispio uncinata         0         0         0.2±0.4         0         0         0         0           Polychaeta         Exogone breviantennata         0         0         0         0         0         0         0         0           Polychaeta         Ophelia bicornis         0	Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus Cauleriella bioculata Cirriformia tentaculata	0 0 0.4±0.9 0 0 0	0 0 0.4±0.5 0 0	2001 0 0.2±0.4 0 0	2001 0.4±0.9 0 0.2±0.4 0 0 0	0 0 0 0 0 0 0 0 0	2001 0 0 0 0 0 0 0 0.2±0.4
PolychaetaDispio uncinata00 $0.2\pm 0.4$ 000PolychaetaExogone breviantennata000000PolychaetaMicrophthalmus pseudoaberrans0 $0.2\pm 0.4$ 0000PolychaetaOphelia bicornis0000000PolychaetaProtodrilus aff. rubropharyngeus0000000PolychaetaParapionosyllis macaronesiensis0000000PolychaetaParapionosyllis minuta0000000PolychaetaParapionosyllis n.sp.0000000PolychaetaPeriquesta canariensis $0.8\pm 1.3$ $0.8\pm 0.4$ $0.2\pm 0.4$ $0.4\pm 0.5$ $0.2\pm 0.4$ PolychaetaPeriquesta canariensis $0.8\pm 1.3$ $0.8\pm 0.4$ $0.2\pm 0.4$ $0.4\pm 0.5$ $0.2\pm 0.4$ PolychaetaPeriquesta canariensis $0.8\pm 1.3$ $0.8\pm 0.4$ $0.2\pm 0.4$ $0.4\pm 0.5$ $0.2\pm 0.4$ PolychaetaPerionosyllis spinisetosa $0.6\pm 0.5$ $0.2\pm 0.4$ $0.4\pm 0.5$ $0.2\pm 0.4$ $0.4\pm 0.5$ PolychaetaProtodorvillea kefersteini000000PolychaetaSchoeredella laubieri $2\pm 3.5$ $1\pm 0.7$ 0 $0.2\pm 0.4$ $0.4\pm 0.5$ PolychaetaSchoeredella laubieri $2\pm 3.5$ $1\pm 0.7$ 0 $0.2\pm 0.4$ $0$	Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus Cauleriella bioculata Cirriformia tentaculata Cirrophorus furcatus	0 0 0.4±0.9 0 0 0 0.2±0.4	2000 0 0.4±0.5 0 0 0 0	2001 0 0.2±0.4 0 0 0 0	2001 0.4±0.9 0 0.2±0.4 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	2001 0 0 0 0 0.2±0.4 0.6±0.9
PolychaetaExogone breviantennata0000000PolychaetaMicrophthalmus pseudoaberrans0 $0.2\pm 0.4$ 00000PolychaetaOphelia bicornis00000000PolychaetaProtodrilus aff. rubropharyngeus00000000PolychaetaParapionosyllis macaronesiensis0000000PolychaetaParapionosyllis n.sp.0000000PolychaetaPeriquesta canariensis0.2±0.4000000PolychaetaPeriquesta canariensis0.2±0.40000000PolychaetaPeriquesta canariensis0.8±1.30.8±0.40.2±0.400000PolychaetaPeriquesta canariensis0.8±1.30.8±0.40.2±0.4000000PolychaetaPeriopuschatina00000000000PolychaetaPionosyllis spinisetosa0.6±0.50.2±0.40.6±0.91.8±3.50.2±0.40.4±0.51.8±2.5PolychaetaRhynchospio glutaea1.6±1.10.6±0.51.8±1.30.4±0.53.4±0.51.8±2.5PolychaetaSchoeredella laubieri2±3.51±0.70000	Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus Cauleriella bioculata Cirriformia tentaculata Cirrophorus furcatus Cirrophorus perdidoensis	0 0 0.4±0.9 0 0 0 0.2±0.4 0	2000 0 0.4±0.5 0 0 0 0 0 0 0 0	2001 0 0.2±0.4 0 0 0 0 0 0 0	2001 0.4±0.9 0 0.2±0.4 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0.2±0.4 0.6±0.9 0
PolychaetaMicrophthalmus pseudoaberrans0 $0.2\pm 0.4$ 00000PolychaetaOphelia bicornis0000000PolychaetaParapionosyllis minuta0000000PolychaetaParapionosyllis minuta0000000PolychaetaParapionosyllis n. sp.0000000PolychaetaPerinereis cultrifera $0.2\pm 0.4$ 000000PolychaetaPerinereis cultrifera $0.2\pm 0.4$ 000000PolychaetaPeriquesta canariensis $0.8\pm 1.3$ $0.8\pm 0.4$ $0.2\pm 0.4$ $0.4\pm 0.5$ $0.2\pm 0.4$ 0PolychaetaPeriquesta canariensis $0.8\pm 1.3$ $0.8\pm 0.4$ $0.2\pm 0.4$ $0.4\pm 0.5$ $0.2\pm 0.4$ 00PolychaetaPeritia amphophthalma0 $0.6\pm 0.5$ $0$ $0.2\pm 0.4$ $0.4\pm 0.5$ $0.2\pm 0.4$ $0.4\pm 0.5$ PolychaetaPionosyllis spinisetosa $0.6\pm 0.5$ $0.2\pm 0.4$ $0.4\pm 0.5$ $0.4\pm 0.5$ $0.4\pm 0.5$ $0.4\pm 0.5$ PolychaetaRhynchospio glutaea $1.6\pm 1.1$ $0.6\pm 0.5$ $1.8\pm 1.3$ $0.4\pm 0.5$ $1.8\pm 2.5$ $0.6\pm 0.5$ $0.4\pm 0.5$ $0.6\pm 0.5$ $0.6\pm 0.5$ $0.6\pm 0.5$ $0.6\pm 0.5$ $0.6\pm 0.5$ $0.6\pm 0.5$ $0.6\pm$	Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus Cauleriella bioculata Cirriformia tentaculata Cirrophorus furcatus Cirrophorus perdidoensis Dispio uncinata	0 0 0.4±0.9 0 0 0 0.2±0.4 0 0	2000 0 0 0.4±0.5 0 0 0 0 0 0 0 0 0 0 0 0 0	2001 0 0.2±0.4 0 0 0 0 0 0 0.2±0.4	2001 0.4±0.9 0 0.2±0.4 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2001 0 0 0 0 0 0.2±0.4 0.6±0.9 0 0
PolychaetaOphelia bicornis00000000PolychaetaProtodrilus aff. rubropharyngeus0000000PolychaetaParapionosyllis macaronesiensis0000000PolychaetaParapionosyllis ni nuta0000000PolychaetaParapionosyllis n. sp.0000000PolychaetaPerinereis cultrifera0.2±0.4000000PolychaetaPeriquesta canariensis0.8±1.30.8±0.40.2±0.40.8±0.40.4±0.50.2±0.4PolychaetaPeriquesta canariensis0.8±1.30.8±0.500.2±0.4000PolychaetaPerinereis cultrifera00.6±0.500.2±0.4000PolychaetaPerinosyllis spinisetosa0.6±0.50.2±0.40.6±0.91.8±3.50.2±0.40.4±0.5PolychaetaProtodorvillea kefersteini0000000PolychaetaRhynchospio glutaea1.6±1.10.6±0.51.8±1.30.4±0.53.4±0.51.8±2.5PolychaetaSchoeredella laubieri2±3.51±0.700.2±0.400PolychaetaSphaerosyllis xarifae0.2±0.400000PolychaetaSpio flicornis9.4±7.88.2±4.17.4±3.8	Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus Cauleriella bioculata Cirriformia tentaculata Cirrophorus furcatus Cirrophorus perdidoensis Dispio uncinata Exogone breviantennata	0 0 0.4±0.9 0 0 0 0 0.2±0.4 0 0 0	2000 0 0 0.4±0.5 0 0 0 0 0 0 0 0 0 0 0 0 0	2001 0 0.2±0.4 0 0 0 0 0 0.2±0.4 0 0 0.2±0.4 0	2001 0.4±0.9 0 0.2±0.4 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2001 0 0 0 0 0 0 0.2±0.4 0.6±0.9 0 0 0
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PolychaetaStreptosylits billeniulu $0.2\pm0.4$ $0$ $0.0\pm0.9$ $0.4\pm0.5$ $0$ $0$ PolychaetaStreptosyllis campoyi $0.4\pm0.5$ $1.8\pm2$ $0.6\pm0.9$ $0.6\pm0.9$ $0$ $0$ PolychaetaSyllides edentulus $0$ $0$ $0$ $0$ $0$ $0$ $0$	Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus Cauleriella bioculata Cirriformia tentaculata Cirrophorus furcatus Cirrophorus perdidoensis Dispio uncinata Exogone breviantennata Microphthalmus pseudoaberrans Ophelia bicornis Protodrilus aff. rubropharyngeus Parapionosyllis macaronesiensis Parapionosyllis minuta Parapionosyllis minuta Parapionosyllis n. sp. Perinereis cultrifera Periquesta canariensis Petitia amphophthalma Pionosyllis spinisetosa Protodorvillea kefersteini Rhynchospio glutaea Schoeredella laubieri Scoloplos armiger Sphaerosyllis xarifae Spio decoratus	November         2000         0.6±0.5         0         1.6±1.1         2±3.5         0.4±0.9         0.2±0.4         0         0.4±7.9	$\begin{array}{c} 2000\\ \hline \\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	$\begin{array}{c} 2001 \\ \hline 0 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 2001 \\ \hline 2001 \\ \hline 0.4\pm 0.9 \\ 0 \\ 0.2\pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 0 \\ 2001 \\ \hline \\ 2001 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Aprin \\ 2001 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$
Polychaeta Svilides edentulus $0 0 0 0 0 0 0 0$	Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus Cauleriella bioculata Cirriformia tentaculata Cirrophorus furcatus Cirrophorus perdidoensis Dispio uncinata Exogone breviantennata Microphthalmus pseudoaberrans Ophelia bicornis Protodrilus aff. rubropharyngeus Parapionosyllis macaronesiensis Parapionosyllis minuta Parapionosyllis minuta Parapionosyllis n. sp. Perinereis cultrifera Periquesta canariensis Petitia amphophthalma Pionosyllis spinisetosa Protodorvillea kefersteini Rhynchospio glutaea Schoeredella laubieri Scoloplos armiger Sphaerosyllis xarifae Spio decoratus Spio filicornis	November $2000$ 0         0      <	$\begin{array}{c} 2000\\ \hline \\ 2000\\ \hline \\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	$\begin{array}{c} 2001 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 2001 \\ \hline 2001 \\ \hline 0.4 \pm 0.9 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 0 \\ 2001 \\ \hline \\ 2001 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Aprin \\ 2001 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$
	Polychaeta Polychaeta	Aricidea (Acmira) catherinae Brania arminii Capitomastus minimus Notomastus latericeus Cauleriella bioculata Cirriformia tentaculata Cirrophorus perdidoensis Dispio uncinata Exogone breviantennata Microphthalmus pseudoaberrans Ophelia bicornis Protodrilus aff. rubropharyngeus Parapionosyllis macaronesiensis Parapionosyllis minuta Parapionosyllis n. sp. Perinereis cultrifera Periquesta canariensis Petitia amphophthalma Pionosyllis spinisetosa Protodorvillea kefersteini Rhynchospio glutaea Schoeredella laubieri Scoloplos armiger Sphaerosyllis xarifae Spio decoratus Spio filicornis Streptosyllis bidentata Streptosyllis bidentata	November $2000$ 0         0      <	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	$\begin{array}{c} 2001 \\ \hline \\ 2001 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} 2001\\ \hline 2001\\ \hline 0.4\pm 0.9\\ 0\\ 0\\ 0.2\pm 0.4\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ 2001 \\ \hline \\ 2001 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	$\begin{array}{c} Aprin \\ 2001 \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$

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Continued	from	Table	2
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Group	Species	May	June	July	August	September	October
		2000	2000	2000	2000	2000	2000
Polychaeta	Syllides japonicus	$0.2 \pm 0.4$	0	0	0	0	1±1.4
Polychaeta	Syllis armillaris	0	0	0	0	$0.2 \pm 0.4$	0
Polychaeta	Syllis garciai	0	0	$1.4 \pm 1.9$	0	0	0
Turbellaria	Acoela sp. 1	0	0	$0.2 \pm 0.4$	0	$0.2 \pm 0.4$	$0.2 \pm 0.4$
Turbellaria	<i>Catenulida</i> sp. 1 ( <i>L</i> )	$1.8 \pm 1.5$	1	$3.6 \pm 3.4$	5.4±4.8	5±2.5	$2.6 \pm 0.5$
Turbellaria	Catenulida sp. 2 (S)	$0.2 \pm 0.4$	$1.2\pm2.2$	0	$1.6 \pm 1.1$	$3.6 \pm 3.9$	$0.6 \pm 0.5$
Turbellaria	Catenulida sp. 3 (M)	3±3.5	$0.8 \pm 1.8$	0	$0.4 \pm 0.5$	$1.2 \pm 1.3$	$1.8\pm2.4$
Turbellaria	Catenulida aff. catenulidae	$0.2 \pm 0.4$	$0.2 \pm 0.4$	0	0	$0.8 \pm 1.1$	$2\pm1.2$
Turbellaria	Proseriata sp. 1	$1\pm1.4$	$0.2 \pm 0.4$	0	$0.2 \pm 0.4$	$1\pm1.2$	0
Turbellaria	Proseriata sp. 2	0	$0.2 \pm 0.4$	0	0	1±1.2	0
Turbellaria	<i>Rhabdocoela</i> sp. 1	$0.2 \pm 0.4$	0	0	0	$0.2 \pm 0.4$	$0.4{\pm}0.5$
Oligochaeta	Aktedrilus sp.	$1.2 \pm 1.3$	$23.6 \pm 35.2$	$15.6 \pm 18.8$	1±1	$0.8 \pm 1.3$	$0.8 \pm 1.3$
Oligochaeta	Coralliodrilus sp.	0	$1.4{\pm}2.6$	$0.6 \pm 1.3$	0	0	$0.2 \pm 0.4$
Oligochaeta	Enchytraeidae sp.	$0.2 \pm 0.4$	$4.4 \pm 4.3$	3±4.2	$0.2 \pm 0.4$	0	0
Oligochaeta	Grania sp.	$1.2 \pm 1.8$	$7.6 \pm 11.5$	$3 \pm 4.1$	$0.6 \pm 0.9$	$0.4{\pm}0.9$	$0.8 \pm 1.8$
Oligochaeta	<i>Heterodrilus</i> sp.	0	$11.2\pm21.3$	$4\pm6.3$	0	0	$0.2 \pm 0.4$
Oligochaeta	Heterodrilus sp. 1	0	0	$1 \pm 1.4$	0	0	0
Oligochaeta	<i>Tubificidae</i> sp.	0	0	0	0	0	0
Acari	Acaridae	0	0	0	0	0	$0.2 \pm 0.4$
Cnidaria	<i>Halamnohydra</i> sp.	$0.2 \pm 0.4$	0	0	0	0	0
Echinodermata	Echiuroidea	$0.2 \pm 0.4$	0	0	0	0	0
Amphipoda	Bathyporeia elegans	$0.2{\pm}0.4$	0	$0.2 \pm 0.4$	0	0	0
Amphipoda	Lysianassidae	0	0	0	0	0	0
Amphipoda	Pontocrates arenarius	0	0	0	0	0	$0.2 \pm 0.4$
Amphipoda	Urothoe sp.	$0.2{\pm}0.4$	0	0	0	0	0
Decapoda	Callianassa tyrrhena	0	0	0	0	$0.2{\pm}0.4$	0
Nemertea	Ototyphlonemertessp. 1	0	0	0	0	0	0
Misidacea	Gastrosaccus sanctus	0	$0.6 {\pm} 0.9$	0	0	0	0
Ostracoda	Cypridina aff. mediterranea	0	0	$0.2 \pm 0.4$	0	0	0
Tanaidacea	Apseudes talpa	$0.8 \pm 1.1$	0	0	0	0	$0.6 \pm 0.5$
Group	Species	November	December	January	February	March	April
Group	Species	November 2000	December 2000	January 2001	February 2001	March 2001	April 2001
Group Polychaeta	Species Syllides japonicus	November 2000 0	December 2000 0	January 2001 0	February 2001 0	March 2001 0.4±0.5	April 2001 1.6±2.6
Group Polychaeta Polychaeta	Species Syllides japonicus Syllis armillaris	November 2000 0 0	December 2000 0 0	January 2001 0 0	February 2001 0 0	March 2001 0.4±0.5 0	April 2001 1.6±2.6 0.6±1.3
Group Polychaeta Polychaeta Polychaeta	Species Syllides japonicus Syllis armillaris Syllis garciai	November 2000 0 0 0	December 2000 0 0 0	January 2001 0 0 0	February 2001 0 0 0	March 2001 0.4±0.5 0 0	April 2001 1.6±2.6 0.6±1.3 0
Group Polychaeta Polychaeta Polychaeta Turbellaria	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1	November 2000 0 0 0 0 0.6±1.3	December 2000 0 0 0 0.8±0.8	January 2001 0 0 0 0.6±1.3	February 2001 0 0 0 0.4±0.5	March 2001 0.4±0.5 0 0 0	April 2001 1.6±2.6 0.6±1.3 0 0
Group Polychaeta Polychaeta Turbellaria Turbellaria	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L)	November 2000 0 0 0 0.6±1.3 2.8±1.1	December 2000 0 0 0.8±0.8 2.6±2.2	January 2001 0 0 0.6±1.3 6.8±2.6	February 2001 0 0 0.4±0.5 1.8±1.6	March 2001 0.4±0.5 0 0 0 0	April 2001 1.6±2.6 0.6±1.3 0 0 0
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S)	November 2000 0 0 0.6±1.3 2.8±1.1 0.4±0.5	December 2000 0 0 0.8±0.8 2.6±2.2 0.6±0.9	January 2001 0 0 0.6±1.3 6.8±2.6 1±1	February 2001 0 0 0.4±0.5 1.8±1.6 0.2±0.4	March 2001 0.4±0.5 0 0 0 0 0	April 2001 1.6±2.6 0.6±1.3 0 0 0 0
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M)	November 2000 0 0 0.6±1.3 2.8±1.1 0.4±0.5 0	December 2000 0 0 0.8±0.8 2.6±2.2 0.6±0.9 2.4±1.7	January 2001 0 0 0.6±1.3 6.8±2.6 1±1 1.2±1.8	February 2001 0 0 0.4±0.5 1.8±1.6 0.2±0.4 0	March 2001 0.4±0.5 0 0 0 0 0 0 0	April 2001 1.6±2.6 0.6±1.3 0 0 0 0 0 0
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae	November 2000 0 0 0.6±1.3 2.8±1.1 0.4±0.5 0 2±1.4	December 2000 0 0 0.8±0.8 2.6±2.2 0.6±0.9 2.4±1.7 2.6±2.7	January 2001 0 0 0.6±1.3 6.8±2.6 1±1 1.2±1.8 3.6±2.6	February 2001 0 0 0.4±0.5 1.8±1.6 0.2±0.4 0 0.2±0.4	March 2001 0.4±0.5 0 0 0 0 0 0 0 0 0	April 2001 1.6±2.6 0.6±1.3 0 0 0 0 0 0 0 0 0 0 0
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1	November 2000 0 0 0 0 0 0 0 0 $(5\pm1.3)$ $(2\pm1.4)$ $(0\pm1.6)$ (0	$\begin{array}{c} \text{December} \\ 2000 \\ 0 \\ 0 \\ 0 \\ 0.8 \pm 0.8 \\ 2.6 \pm 2.2 \\ 0.6 \pm 0.9 \\ 2.4 \pm 1.7 \\ 2.6 \pm 2.7 \\ 1 \pm 1 \end{array}$	January 2001 0 0 0.6±1.3 6.8±2.6 1±1 1.2±1.8 3.6±2.6 5.8±4.9	February 2001 0 0 0.4±0.5 1.8±1.6 0.2±0.4 0 0.2±0.4 2	March 2001 0.4±0.5 0 0 0 0 0 0 0 0 0 0 0 0 0	April 2001 1.6±2.6 0.6±1.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 2	November 2000 0 0 0 0 0 0 0 0 $()^{()}$ $()^{()}$ $()^{()}$ $()^{()}$ $()^{()}$ $()^{()}$ $()^{()}$ $()^{()}$ $()^{()}$ $()^{()$	$\begin{array}{c} \text{December} \\ 2000 \\ 0 \\ 0 \\ 0 \\ 0.8 \pm 0.8 \\ 2.6 \pm 2.2 \\ 0.6 \pm 0.9 \\ 2.4 \pm 1.7 \\ 2.6 \pm 2.7 \\ 1 \pm 1 \\ 0 \\ \end{array}$	$\begin{array}{c} \text{January} \\ 2001 \\ 0 \\ 0 \\ 0 \\ 0.6\pm1.3 \\ 6.8\pm2.6 \\ 1\pm1 \\ 1.2\pm1.8 \\ 3.6\pm2.6 \\ 5.8\pm4.9 \\ 0 \\ \end{array}$	February 2001 0 0 0.4±0.5 1.8±1.6 0.2±0.4 0 0.2±0.4 2 0	March 2001 0.4±0.5 0 0 0 0 0 0 0 0 0 0 0 0 0	April 2001 1.6±2.6 0.6±1.3 0 0 0 0 0 0 0 0 0 0 0 0 0
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1	November 2000 0 0 $0.6\pm1.3$ $2.8\pm1.1$ $0.4\pm0.5$ 0 $2\pm1.4$ $0.8\pm1.8$ 0 0	$\begin{array}{c} \text{December} \\ 2000 \\ 0 \\ 0 \\ 0 \\ 0.8 \pm 0.8 \\ 2.6 \pm 2.2 \\ 0.6 \pm 0.9 \\ 2.4 \pm 1.7 \\ 2.6 \pm 2.7 \\ 1 \pm 1 \\ 0 \\ 0 \\ 0 \\ \end{array}$	$\begin{array}{c} \text{January} \\ 2001 \\ 0 \\ 0 \\ 0 \\ 0.6\pm1.3 \\ 6.8\pm2.6 \\ 1\pm1 \\ 1.2\pm1.8 \\ 3.6\pm2.6 \\ 5.8\pm4.9 \\ 0 \\ 0.4\pm0.5 \end{array}$	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 0	March 2001 0.4±0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \text{April} \\ 2001 \\ \hline 1.6\pm2.6 \\ 0.6\pm1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1 Aktedrilus sp.	November 2000 0 0 $0.6\pm1.3$ $2.8\pm1.1$ $0.4\pm0.5$ 0 $2\pm1.4$ $0.8\pm1.8$ 0 0 $2.4\pm4.3$	$\begin{array}{c} \mbox{December}\\ 2000\\ 0\\ 0\\ 0\\ 0.8 \pm 0.8\\ 2.6 \pm 2.2\\ 0.6 \pm 0.9\\ 2.4 \pm 1.7\\ 2.6 \pm 2.7\\ 1 \pm 1\\ 0\\ 0\\ 0.2 \pm 0.4 \end{array}$	$\begin{array}{c} \text{January} \\ 2001 \\ 0 \\ 0 \\ 0 \\ 0.6\pm1.3 \\ 6.8\pm2.6 \\ 1\pm1 \\ 1.2\pm1.8 \\ 3.6\pm2.6 \\ 5.8\pm4.9 \\ 0 \\ 0.4\pm0.5 \\ 0.4\pm0.5 \\ 0.4\pm0.5 \\ \end{array}$	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 0 0 0	March 2001 0.4±0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 5.8±11.9	$\begin{array}{c} \text{April} \\ 2001 \\ \hline 1.6\pm2.6 \\ 0.6\pm1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Oligochaeta	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1 Aktedrilus sp. Coralliodrilus sp.	November 2000 0 0 0 0 0 0 0 0 () ()	December 2000 0 0 0.8 $\pm$ 0.8 2.6 $\pm$ 2.2 0.6 $\pm$ 0.9 2.4 $\pm$ 1.7 2.6 $\pm$ 2.7 1 $\pm$ 1 0 0 0.2 $\pm$ 0.4 0	January 2001 0 0 0.6 $\pm$ 1.3 6.8 $\pm$ 2.6 1 $\pm$ 1 1.2 $\pm$ 1.8 3.6 $\pm$ 2.6 5.8 $\pm$ 4.9 0 0.4 $\pm$ 0.5 0.4 $\pm$ 0.5 0.4 $\pm$ 0.5 0	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 0 $0.4\pm0.5$ 0	March 2001 0.4±0.5 0 0 0 0 0 0 0 0 0 0 5.8±11.9 0	April 2001 1.6±2.6 0.6±1.3 0 0 0 0 0 0 0 0 0 0 13±21.4 0.2±0.4
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Oligochaeta Oligochaeta	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1 Aktedrilus sp. Coralliodrilus sp. Enchytraeidae sp.	November 2000 0 0 0 0 0 0 0 0 () ()	$\begin{array}{c} \text{December} \\ 2000 \\ 0 \\ 0 \\ 0 \\ 0.8 \pm 0.8 \\ 2.6 \pm 2.2 \\ 0.6 \pm 0.9 \\ 2.4 \pm 1.7 \\ 2.6 \pm 2.7 \\ 1 \pm 1 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} \text{January} \\ 2001 \\ 0 \\ 0 \\ 0 \\ 0.6\pm1.3 \\ 6.8\pm2.6 \\ 1\pm1 \\ 1.2\pm1.8 \\ 3.6\pm2.6 \\ 5.8\pm4.9 \\ 0 \\ 0.4\pm0.5 \\ 0.4\pm0.5 \\ 0.4\pm0.5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 0 $0.4\pm0.5$ 0 0	March 2001 0.4±0.5 0 0 0 0 0 0 0 0 0 0 5.8±11.9 0 0.4±0.9	$\begin{array}{c} \text{April} \\ 2001 \\ \hline 1.6\pm2.6 \\ 0.6\pm1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Oligochaeta Oligochaeta	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1 Aktedrilus sp. Coralliodrilus sp. Enchytraeidae sp. Grania sp.	November 2000 0 0 0 0 0 0 0 0 () () 0 () 0 ()	$\begin{array}{c} \mbox{December}\\ 2000\\ 0\\ 0\\ 0\\ 0.8\pm 0.8\\ 2.6\pm 2.2\\ 0.6\pm 0.9\\ 2.4\pm 1.7\\ 2.6\pm 2.7\\ 1\pm 1\\ 0\\ 0\\ 0.2\pm 0.4\\ 0\\ 0\\ 0.2\pm 0.4\\ 0\\ 0\\ 0.2\pm 0.4\\ \end{array}$	January 2001 0 0 0.6 $\pm$ 1.3 6.8 $\pm$ 2.6 1 $\pm$ 1 1.2 $\pm$ 1.8 3.6 $\pm$ 2.6 5.8 $\pm$ 4.9 0 0.4 $\pm$ 0.5 0.4 $\pm$ 0.5 0.4 $\pm$ 0.5 0 0	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 0 $0.4\pm0.5$ 0 0 0	March 2001 $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \text{April} \\ 2001 \\ \hline 1.6\pm2.6 \\ 0.6\pm1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Oligochaeta Oligochaeta Oligochaeta	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1 Aktedrilus sp. Coralliodrilus sp. Enchytraeidae sp. Grania sp. Heterodrilus sp.	November 2000 0 0 0 0 0 0 $()^{-1}$ $()^{-$	December 2000 0 0 0.8 $\pm$ 0.8 2.6 $\pm$ 2.2 0.6 $\pm$ 0.9 2.4 $\pm$ 1.7 2.6 $\pm$ 2.7 1 $\pm$ 1 0 0 0.2 $\pm$ 0.4 0 0 0.2 $\pm$ 0.4 0 0 0.2 $\pm$ 0.4 0 0 0.2 $\pm$ 0.4 0 0 0.2 $\pm$ 0.4 0 0 0.2 $\pm$ 0.4 0 0 0.2 $\pm$ 0.4 0 0 0 0 0 0 0 0 0 0 0 0 0	January 2001 0 0 0.6 $\pm$ 1.3 6.8 $\pm$ 2.6 1 $\pm$ 1 1.2 $\pm$ 1.8 3.6 $\pm$ 2.6 5.8 $\pm$ 4.9 0 0.4 $\pm$ 0.5 0.4 $\pm$ 0.5 0.4 $\pm$ 0.5 0 0 0	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 0 $0.4\pm0.5$ 0 0 0 0	March 2001 $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \text{April} \\ 2001 \\ \hline 1.6\pm2.6 \\ 0.6\pm1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Oligochaeta Oligochaeta Oligochaeta Oligochaeta	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1 Aktedrilus sp. Coralliodrilus sp. Enchytraeidae sp. Grania sp. Heterodrilus sp. 1	November 2000 0 0 0 0 0 0 $0.6\pm1.3$ $2.8\pm1.1$ $0.4\pm0.5$ 0 $2\pm1.4$ $0.8\pm1.8$ 0 0 $2.4\pm4.3$ 0 0 $2.4\pm2.4$ 0 0 $2.4\pm4.3$ 0 0 $2.4\pm2.4$ 0 0 $2.4\pm4.3$ 0 0 $2.4\pm2.4$ 0 0 $2.4\pm4.3$ 0 0 $2.4\pm4.3$ 0 0 $2.4\pm0.4$ 0 $3.8\pm6.5$ 0.2\pm0.4 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.8\pm1.8$ 0 $0.8\pm0.8$ $3.8\pm6.5$ 0.2\pm0.4 0 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ 0 $0.2\pm0.4$ $0.2\pm$	$\begin{array}{c} \text{December} \\ 2000 \\ 0 \\ 0 \\ 0 \\ 0.8 \pm 0.8 \\ 2.6 \pm 2.2 \\ 0.6 \pm 0.9 \\ 2.4 \pm 1.7 \\ 2.6 \pm 2.7 \\ 1 \pm 1 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} \text{January} \\ 2001 \\ \hline 0 \\ 0 \\ 0 \\ 0.6\pm1.3 \\ 6.8\pm2.6 \\ 1\pm1 \\ 1.2\pm1.8 \\ 3.6\pm2.6 \\ 5.8\pm4.9 \\ 0 \\ 0.4\pm0.5 \\ 0.4\pm0.5 \\ 0.4\pm0.5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 0 $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \text{March}\\ 2001\\ \hline 0.4\pm 0.5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} \mbox{April} \\ 2001 \\ 1.6\pm 2.6 \\ 0.6\pm 1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1 Aktedrilus sp. Coralliodrilus sp. Enchytraeidae sp. Grania sp. Heterodrilus sp. 1 Tubificidae sp.	November 2000 0 0 0 0 0 0 0 0 2 $\pm$ 1.3 0 2 $\pm$ 1.1 0.4 $\pm$ 0.5 0 2 $\pm$ 1.4 0 0 2 $\pm$ 1.4 0 0 2 $\pm$ 1.4 0 0 2 $\pm$ 1.4 0 0 2.4 $\pm$ 4.3 0 0 2.4 $\pm$ 4.3 0 0 0.8 $\pm$ 0.8 3.8 $\pm$ 6.5 0.2 $\pm$ 0.4 0 0 0 0 0 0 0 0 0 0 0 0 0	December 2000 0 0 0.8 $\pm$ 0.8 2.6 $\pm$ 2.2 0.6 $\pm$ 0.9 2.4 $\pm$ 1.7 2.6 $\pm$ 2.7 1 $\pm$ 1 0 0 0.2 $\pm$ 0.4 0 0 0.2 \pm0.4 0 0 0 0 0 0 0 0 0 0 0 0 0	January 2001 0 0 $0.6\pm1.3$ $6.8\pm2.6$ $1\pm1$ $1.2\pm1.8$ $3.6\pm2.6$ $5.8\pm4.9$ 0 $0.4\pm0.5$ $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0 0	March 2001 $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \mbox{April} \\ 2001 \\ 1.6\pm 2.6 \\ 0.6\pm 1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Group Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida aff. catenulidae Proseriata sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1 Aktedrilus sp. Coralliodrilus sp. Enchytraeidae sp. Grania sp. Heterodrilus sp. 1 Tubificidae sp. Acaridae	November 2000 0 0 0 0 0 0 $0.6\pm1.3$ $2.8\pm1.1$ $0.4\pm0.5$ 0 $2\pm1.4$ $0.8\pm1.8$ 0 0 $2.4\pm4.3$ 0 $0.8\pm0.8$ $3.8\pm6.5$ $0.2\pm0.4$ 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \text{December} \\ 2000 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0.8 \pm 0.8 \\ 2.6 \pm 2.2 \\ 0.6 \pm 0.9 \\ 2.4 \pm 1.7 \\ 2.6 \pm 2.7 \\ 1 \pm 1 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0.2 \pm 0.4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	January 2001 0 0 0.6 $\pm$ 1.3 6.8 $\pm$ 2.6 1 $\pm$ 1 1.2 $\pm$ 1.8 3.6 $\pm$ 2.6 5.8 $\pm$ 4.9 0 0.4 $\pm$ 0.5 0.4 $\pm$ 0.5 0.4 $\pm$ 0.5 0 0 0 0 0 0 0 0 0 0	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 0 $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0 0	March 2001 $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \text{April} \\ 2001 \\ 1.6\pm2.6 \\ 0.6\pm1.3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
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Group Polychaeta Polychaeta Polychaeta Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Turbellaria Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta Oligochaeta	Species Syllides japonicus Syllis armillaris Syllis garciai Acoela sp. 1 Catenulida sp. 1 (L) Catenulida sp. 2 (S) Catenulida aff. catenulidae Proseriata sp. 3 (M) Catenulida aff. catenulidae Proseriata sp. 1 Proseriata sp. 1 Proseriata sp. 2 Rhabdocoela sp. 1 Aktedrilus sp. Coralliodrilus sp. Enchytraeidae sp. Grania sp. Heterodrilus sp. 1 Tubificidae sp. Acaridae Halamnohydra sp. Echiuroidea	November 2000 0 0 0 0 0 0 2 $\pm 1.3$ 2.8 $\pm 1.1$ 0.4 $\pm 0.5$ 0 2 $\pm 1.4$ 0 0 2 $\pm 1.4$ 0 0 2 $\pm 1.4$ 0 0 2.4 $\pm 4.3$ 0 0 2.4 $\pm 4.3$ 0 0 2.4 $\pm 4.3$ 0 0 2.4 $\pm 4.3$ 0 0 2.4 $\pm 4.3$ 0 0 2.4 $\pm 4.3$ 0 0 2.4 $\pm 4.3$ 0 0 2.4 $\pm 4.3$ 0 0 2.4 $\pm 4.3$ 0 0 0 2.4 $\pm 4.3$ 0 0 0 2.4 $\pm 4.3$ 0 0 0 2.4 $\pm 4.3$ 0 0 0 2.4 $\pm 4.3$ 0 0 0 2.4 $\pm 4.3$ 0 0 0 2.4 $\pm 4.3$ 0 0 0 0 2.4 $\pm 4.3$ 0 0 0 0 0 2.4 $\pm 4.3$ 0 0 0 0 0 0 0 0 0 0 0 0 0	December 2000 0 0 0.8 $\pm$ 0.8 2.6 $\pm$ 2.2 0.6 $\pm$ 0.9 2.4 $\pm$ 1.7 2.6 $\pm$ 2.7 1 $\pm$ 1 0 0 0.2 $\pm$ 0.4 0 0 0.2 $\pm$ 0.4 0 0 0.2 $\pm$ 0.4 0 0 0.2 $\pm$ 0.4 0 0 0 0.2 $\pm$ 0.4 0 0 0 0 0 0 0 0 0 0 0 0 0	January 2001 0 0 0 0 0 0 0 0 0 0 0 0 0	February 2001 0 0 $0.4\pm0.5$ $1.8\pm1.6$ $0.2\pm0.4$ 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 $0.2\pm0.4$ 2 0 0 $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0 0	March 2001 $0.4\pm0.5$ 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \text{April} \\ 2001 \\ \hline \\ 2001$
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Meiofauna density ranged from 151.63 ind./10 cm<sup>2</sup> (May 2000) to 853.46 ind./10 cm<sup>2</sup> (January 2001) (Fig. 2). Meiofaunal abundances were more or less stable throughout the study year, however, a sharp decrease occurred in May 2000, posteriorly recovered two months later (July 2000). As expected, meiofaunal abundance showed highly significant differences during the study period (one-way ANOVA, *F*=17.612; *p* ≪0.000 1) (Fig. 2, Table 3).

# 3.3 Nematodes

Nematode abundances ranged from 117.6 ind./10 cm<sup>2</sup> (May 2000) to 800 ind./10 cm<sup>2</sup> (January 2001). Nematode densities obtained highly significant differences throughout the sampling period (one-way ANOVA, *F*=19.476,  $p \ll 0.001$ ) (Fig. 3, Table 3). A total of 74 species of free-living nematodes were identified. The most abundant species were *Siphonolaimus* sp. 2 (10 623 ind.) and *Catanema* sp. (8 907 ind.), which made up ca. 50% of the overall meiofaunal abundance. *Siphonolaimus* sp. 2 abundances ranged from 3.4 ind./10 cm<sup>2</sup> (May 2000) to 447 ind./ 10 cm<sup>2</sup> (July 2000) (Fig. 4, Table 2). *Catanema* sp. abundance.



**Fig.2.** Meiofaunal abundances (±SE) throughout the study period (May 2000–April 2001).

**Table 3.** Results of univariate ANOVA testing for differences in overall meiofaunal abundance and nematode, copepod, and oligochaete abundances throughout the study period (May 2000–April 2001)

	0	verall meiofa	unal		Nematode	)		Copepo	d
Source of variation		abundanc	e		abundance	e		abundan	ce
	MS	F	р	MS	F	р	MS	F	р
DF	209 750	17 162	$\ll 0.000$ 1*	2 289 756	19 476	$\ll 0.000$ 1*	440.05	4.238	0.000 2*
		Oligochaet	te	Sipl	honolaimus	sp. 2		Catanema	ı sp.
Source of variation		Oligochaet abundanc	te e	Sipl	honolaimus abundance	e sp. 2		<i>Catanema</i> bundan	ı sp. ce
Source of variation	MS	Oligochaet abundanc F	te e p	Sipi MS	honolaimus abundance F	e p	MS	Catanema bundane F	a sp. ce p

Notes: \* Significant differences (p < 0.01). MS represents mean squares and DF degrees of freedom.

ces ranged from 41.2 ind./10 cm<sup>2</sup> (May 2000) to 334 ind./10 cm<sup>2</sup> (February 2001) (Fig. 5, Table 2). Both species showed significant differences throughout the study period (*Siphonolaimus* sp. 2, *F*=6.10, *p*  $\ll$  0.000 1; *Catanema* sp., *F*=5.24, *p*  $\ll$  0.000 1) (Table 3). In contrast, the species *Ammotheristus* sp., *Enoplus* sp., *Rhabdodemania* sp., and *Tarvaia* aff. *peruvensis* were scarce (Table 2).



**Fig.3.** Nematode abundances (±SE) throughout the study period (May 2000–April 2001).



**Fig.4.** Nematode *Siphonolaimus* spB. Average abundances ( $\pm$ SE) from May 2000 to April 2001.

# 3.4 Oligochaetes

Oligochaete abundances ranged from being less than 3 ind./10 cm<sup>2</sup> (December 2000, January 2001, and February 2001) to 52 ind./10 cm<sup>2</sup> (June 2000) (Fig. 4). This taxonomic group did not show significant differences in its abundance throughout the study period (F=1.411, p=0.199) (Table 3). A total of seven oligochaete species were identified. The most abundant species were *Aktedrilus* sp. (326 ind.) and *Grania* sp. (161 ind.). In contrast, the species *Coralliodrilus* sp. (12 ind.) and *Heterod*-



**Fig.5.** Nematode *Catanema* sp. Average abundances (±SE) from May 2000 to April 2001.



#### 3.5 Copepods

Copepod abundances ranged from 1 ind./10 cm<sup>2</sup> (July 2000) to 35 ind./10 cm<sup>2</sup> (December 2000) (Fig. 6). Significant variations were found in copepod abundances during the study year (F=4.238; p=0.000 2) (Table 3). A total of nine copepod species were identified. The most abundant species were *Halectinosoma* sp. (255 ind.) and *Harpacticus* aff. *flexus* (163 ind.). In contrast, the taxa *Tisbe* aff. *bulbisetosa, Asellopsis* sp., and *Paralaophonte* sp. were scarce (Table 2).

# 3.6 Polychaetes

Polychaete abundances ranged from 7 ind./10 cm<sup>2</sup> (February 2001) to 18 ind. 10 cm<sup>-2</sup> (June 2000) (not shown). A total of 33 polychaete species were identified. The most abundant species was the *spionid Spio filicornis* (334 ind.). In contrast, 13 species were scarce (Table 2).

### 3.7 Turbellarians

Turbellarian abundances ranged from 3 ind./10 cm<sup>2</sup> (June 2000 and July 2000) to 21 ind./10 cm<sup>2</sup> (January 2001) (not shown). A total of eight turbellarian species were identified. The most abundant were *Catenulida* sp. 1 (198 ind.) and *Proseriata* sp. 1 (75 ind.). In contrast, the species *Proseriata* sp. 2 and *Rhabdocoela* sp. 1 were scarce (Table 2).



Fig.6. Oligochaeta. Average abundances ( $\pm$ SE) from May 2000 to April 2001.



**Fig.7.** Copepoda. Average abundances (±SE) from May 2000 to April 2001.

#### 3.8 Minor groups

Minor taxa were constituted by acari, decapods, echinoids, amphipods, nemerteans, ostracods, kinorhynchs, and tanaids. A total of 13 species were identified, four of which were amphipods (*Pontocrates arenarius, Bathyporeia elegans, Lysianassidae*, and *Urothoe* sp.), while one species contributed to each of the remaining taxonomic groups. The most abundant species was the tanaid *Apseudes talpa* (89 ind.), followed by the amphipod *Pontocrates arenarius* (11 ind.). In contrast, seven species were scarce throughout the study period (Table 2).

# 3.9 Multivariate analysis

The cluster analysis using means of all months of the study year produced a dendrogram with six distinct groups (Fig. 8), which were also observed in the n-MDS (Fig. 9). The samples clustered in the dendrogram presented a high similarity (>50%). Samples clustered in Group I corresponded to July 2000 (53% of similarity), while those clustered in Group II corresponded to May 2000 (56% of similarity). Samples from March and April 2001 were included in Group III (64% of similarity) and those of June 2000 were included in Group IV (65% of similarity). At the level of 69% of similarity, the remaining months of the year were separated into two groups (V and VI). Group V (August, September, October, and November 2000) and Group VI (December 2000, January 2001, and February 2001) were separated at the level of 70% of similarity. Group V was characterized by intermediate abundances of nematodes and Group VI obtained high densities of nematodes, polychaetes, and turbellarians.



**Fig.8.** Dendrogram of similarity of sampling months during the study period (May 2000–April 2001).

400



**Fig.9.** Multidimensional scaling (MDS) of sampling months during the study period (May 2000–April 2001) (stress=0.14).

In terms of species composition, Group I (July 2000) was dominated by two nematode species belonging to the genera *Siphonolaimus* (sp. 1 and sp. 2) and *Catanema* sp. Group II (May 2000) was characterised by high densities of the nematodes *Catanema* sp., *Oncholaimus campylocercoides*, and the harpacticoid copepod *Ectinosomatidae* sp 1. Group III (March and April 2001) was dominated by the nematodes *Siphonolaimus* (sp. 1 and sp. 2) and *Catanema* sp. Group IV (June 2000) was overwhelmingly dominated by the nematode *Catanema* sp. and, to a lesser extent, by the nematodes *Sabatieria celtica* and *Siphonolaimus* sp. 2. Group V (August, September, October, and November 2000) were characterised by the nematodes *Siphonolaimus* sp. 2 and *Catanema* sp. Group VI (December 2000, January 2001, and February 2001) was dominated by the nematodes *Catanema* sp. and *Siphonolaimus* sp. 2, followed by *Oncholaimus campylocercoides* and *Sabatieria celtica*.

Meiofaunal assemblage structure showed temporal variations throughout the study period (May 2000–April 2001) (oneway ANOSIM, R=0.249, p=0.003). This result was mainly due to the temporal variability of the nematodes *Siphonolaimus* sp. 2 and *Catanema* sp. that overwhelmingly dominated the meiofaunal assemblages. BIOENV analysis showed that variations in the percentages of organic matter, fine sands, and very fine sands clearly affected the meiofaunal assemblage structure of the sampling station (p=0.769) (Table 4). Thus, the former environmental variables, which showed temporal variations in the sampling location, were best for explaining meiofaunal abundances during the study period.

#### **4** Conclusions

In the present study, we observed a response through time

Table 4. Summary of results from BIOENV analysis

Correlation	Variables
0.769	Organic matter, fine sands, and very fine sands
0.768	Nitrogen, organic matter, fine sands, and very fine sands
0.752	Organic matter, fine sands, very fine sands, and silt/clay
0.751	Nitrogen, organic matter, fine sands, very fine sands, and silt/clay
0.735	Fine sands and very fine sands
0.733	Nitrogen, fine sands, and very fine sands
0.723	Nitrogen, fine sands, very fine sands, and silt/clay

Notes: Faunal abundances were square root transformed and environmental variables were  $log_{10}(x+1)$  transformed.

at the assemblage level and major taxonomic groups, resulting in a temporal trend of meiofauna in the studied location. The trend was mainly caused by temporal fluctuations of the two most abundant species (nematodes *Siphonolaimus* sp. 2 and *Catanema* sp.), which dominated the meiofaunal assemblage during the study period. These variations were partially explained by temporal shifts of sedimentary variables (e.g., grain size composition and organic matter content).

Interstitial subtidal species are faced with two gradients: physical-horizontal (sediment stability) and chemical-vertical (oxygen concentration) gradients (McLachlan and Jaramillo, 1995; Armonies and Reise, 2000). The combination of those horizontal and vertical gradients may generate a complex spatial matrix of living conditions (Fenchel et al., 1967). In intertidal and subtidal seabeds, meiofaunal abundances vary according to temperature, tidal exposure, wave action, grain size, oxygen availability, substratum porosity, water percolation, organic input, and other factors. (Coull, 1988; Gheskiere et al., 2005). In general, nematodes dominate benthic meiofauna communities, comprising more than half of the overall meiofaunal abundances (McLachlan, 1983), as occurred in the present study. Harpacticoids are usually subdominant or a secondary group in terms of abundance (McIntyre, 1969).

The dominance of the nematodes *Siphonolaimus* sp. 2 and *Catanema* sp. was probably due to the trophic strategies

of these species, which could be an advantage in oligotrophic environments, such as the study area (Canary Islands). Strong evidence has been found from the genus Catanema that it derives most of its carbon from autotrophic sulphur bacteria (Tom Moens pers. comm.). It is likely to get its energy from bacteria that act as endo- or ectosymbionts. In the case of endosymbionts, Catanema probably do not feed on them, although Catanema may digest part of them as they live in the intestine, but instead utilize dissolved secreted carbon sources from the bacteria. As ectosymbionts, Catanema could do the same (dissolved organic matter may penetrate through the cuticle) or they may feed on the bacteria growing on their cuticles (Tom Moens pers. comm.). However, a simpler explanation is that Catanema species may just feed on free-living bacteria, but that needs to be checked in future works. No detailed information about Siphonolaimus trophic strategies has been found in prior works.

In short, meiofaunal assemblages showed temporality in the sampling location throughout the study period. This temporal variation was partially explained by differences in the percentages of fine sands, very fine sands, and organic matter content throughout the study period. However, a detailed ecological study (including physical variables and biological interactions) is necessary in order to accurately explain temporal variations in this area.

# Acknowled gements

The authors are grateful to Dr. T Gheskiere and Dr. M Vincx (Department of Marine Biology, University of Ghent, Belgium) for bibliographic facilities and encouragement during the stay of the first author (R.R.). Thanks to Dr. T Moens (Department of Marine Biology, University of Ghent, Belgium), who provided autoecological data of free-living nematodes.

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