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Assessment of benthic hard substratum communities responses to changes in the management of anthropogenic pressures in the Basque coast

Mikel Zubikarai¹, Angel Borja and Iñigo Muxika

Abstract

The need to find efficient indices and indicators to assess the status of the marine environment and prevent further deterioration of coastal areas is one of the hot topics in today's marine research. However, a detailed knowledge of benthic communities' responses to anthropogenic impacts is essential to develop those indices. The studies on the response of benthic communities to sewage pollution and the management measures to remove that pollution on rocky shores are generally based on semiquantitative data and do not take into account both intertidal and subtidal levels. In order to fulfil this gap, the objectives of this study were: (i) to analyse the responses of benthic communities (both fauna and flora) to different phases in the management of wastewater discharges; and (ii) to determine whether if trophic guilds could be an adequate indicator of the changes shown after different management decisions. Hence, fauna and flora data from a quantitative (biomass) monitoring from three areas of the Basque coast were used, with organisms identified to the lowest taxonomic level, with information at intertidal (midlittoral and infralittoral fringes) and subtidal (5, 15 and 25 m) levels. After the different phases on the water treatment management (with or without treatment), investigation results show that the improvement in water quality significantly changed the structure and diversity of intertidal and subtidal assemblages. In fact, those differences were detected by the improvement in some univariate variables mean values, like richness. In turn, significant ($p < 0.05$) differences were also found in fauna and flora biomass between tidal levels, transects, trophic guilds and evolution of the management phases. Moreover it has been found that, changes in trophic guilds and multivariate analyses seem to be an adequate way to monitor benthic hard substratum communities responses to changes in the management of anthropogenic pressures in the Basque coast. Hence, the evaluation of these changes in benthic communities may be useful to inform managers and the society in general about the effectiveness of these indices and indicators.

Key words: benthic communities, hard substratum, recovery, sanitation, biomass, diversity, richness, wastewater treatment.

Resumen

La necesidad de encontrar índices e indicadores eficientes para evaluar el estado del medio marino y así evitar un mayor deterioro de las zonas costeras es uno de los temas de actualidad en la investigación marina. Sin embargo, un conocimiento detallado de las respuestas de las comunidades bentónicas a la presión antropogénica es esencial para desarrollar dichos índices. Los estudios sobre la respuesta de las comunidades bentónicas a la contaminación de aguas residuales y las medidas de gestión para eliminar esa contaminación en las costas rocosas se basan generalmente en datos semicuantitativos y no suelen contemplar diferentes niveles intermareales y submareales. Teniendo esto en cuenta, los objetivos de este estudio fueron: (i) analizar las respuestas de las comunidades bentónicas (tanto la fauna como la flora) en diferentes fases de la gestión de la descarga de aguas residuales; y (ii) determinar si los grupos tróficos podrían ser un indicador adecuado de los cambios que se muestran en las diferentes fases en dicha gestión. Para ello, se utilizaron datos cuantitativos (biomasa) de la fauna y flora en el seguimiento de tres áreas de la costa vasca, con organismos identificados hasta el nivel taxonómico más bajo, en las zonas intermareal (mediolitoral e infralitoral) y submareal (5, 15 y 25 m). Después de las diferentes fases en la gestión del tratamiento del agua (con o sin tratamiento), se puede observar en los resultados que la mejora en la calidad del agua cambió de manera significativa la estructura

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y la diversidad tanto a nivel intermareal como submareal. De hecho, estas diferencias se detectaron mediante la mejora en los valores medios de algunas variables univariantes, como la riqueza. A su vez, también se encontraron diferencias significativas ($p < 0.05$) en la biomasa de la fauna y flora entre los niveles de marea, transectos, grupos tróficos y la evolución en las fases de gestión. De esta manera, los cambios en los grupos tróficos y los análisis multivariantes parecen ser una forma adecuada para supervisar los cambios en las comunidades bentónicas de sustrato duro ante cambios en la gestión de las presiones antropogénicas en la costa vasca. Por lo tanto, la evaluación de estos cambios en las comunidades bentónicas puede ser útiles para informar a los administradores y la sociedad en general acerca de la efectividad de estos índices e indicadores.

Palabras clave: comunidades bentónicas, sustrato duro, recuperación, saneamiento, biomasa, diversidad, riqueza, tratamiento de aguas residuales.

Introduction

Half of the world's population lives along the coastline and consequently the habitats located in those areas are under great human pressure (Halpern *et al.*, 2008). As such, that biodiversity and ecological processes on coastal ecosystems are severely threatened (Törnroos *et al.*, 2013).

Sewage discharges are among the most common anthropogenic impacts on rocky shores, causing organic and nutrient enrichment, pollution, water turbidity and high siltation rates (Terlizzi *et al.*, 2005; Azzurro *et al.*, 2010). These discharges include a great variety of toxic contaminants from agricultural, industrial and urban activities (Little *et al.*, 2010).

Drastic changes in the patterns of distribution of marine assemblages in time and space have been reported worldwide as a consequence of sewage discharges (Tewari and Joshi, 1988; Roberts *et al.*, 1998; Smith *et al.*, 1999). Under the stress of pollution, the shift in community structure is frequently paralleled by a decline in diversity, especially in macrobenthic communities (Fairweather, 1990; Munda, 1993; Díez *et al.*, 2010). These detrimental conditions may reduce species richness (Wear and Tanner 2007), causing assemblages to be dominated by just a few species (Roberts *et al.*, 1998) and altering their overall structure (Terlizzi *et al.*, 2002). However, faunal and flora stress level from sewage discharge can vary considerably depending on effluent treatments and flow rates (Del Pilar Russo *et al.*, 2010), as well as on the physical environmental conditions in which the effluent is discharged (Pastorock and Bylard 1985).

The Urban Wastewater Treatment Directive (91/271/EEC) was established to protect the environment from the adverse effects of sewage discharges within the European Union. In this sense, great strides have been made in controlling urban wastewaters in terms of the proportion of population connected to sanitation systems and the technology involved (e.g., Díez *et al.*, 2013). With this in mind, the European Water Framework Directive (WFD; 2000/60/EC) seeks to prevent further deterioration of the European coastal waters by evaluating the ecological status of all water bodies. However, restoration of degraded habitats does not end with the construction of treatment infrastructures: the success or failure of these actions in terms of improving the ecological structure and functioning

of the restored habitat must also be assessed (Chapman, 1999; Borja *et al.*, 2010).

For coastal areas, within the WFD, this evaluation should be based on both physicochemical and biological elements such as phytoplankton, macroalgae, benthic macrofauna and seagrasses (Borja *et al.*, 2009). Among these ecosystem components, and for rocky habitats, benthic invertebrates and macroalgae are considered powerful indicators of marine pollution due to their sedentarism, long lives, easy sampling, and to the existence of extensive literature on their distribution in specific environments and on their response to different environmental stresses (Littler and Murray, 1975; Terlizzi *et al.*, 2002; Arévalo *et al.*, 2007; Bustamante, 2013).

However, the studies on the response of benthic communities to sewage pollution and the management measures to remove that pollution on rocky shores are generally based on semiquantitative data (i.e. different scales of cover), do not take into account both intertidal and subtidal levels, and tend to study fauna and flora separately (Terlizzi *et al.*, 2002; Bustamante, 2013).

In the case of the Basque Country, there are some long-term series (13 years) of benthic data allowing fulfilling this gap: environmental studies of Mompos coastal area and Oiartzun estuary (Muxika *et al.*, 2014) and monitoring studies in Atalarrreka (Belzunce *et al.*, 2012). Hence, the objectives of this study were: (i) to analyse the responses of rocky benthic communities (both fauna and flora, using quantitative biomass data) to different phases in the management of wastewater discharges, at intertidal and subtidal levels, from three studied locations; and (ii) to determine whether if trophic guilds could be an adequate indicator of the expected changes shown after different management decisions.

Materials and Methods

Study area and management phases

The area of study includes the Gipuzkoa coast, in the eastern part of the Basque Country (Figure 1). Untreated wastewater from Donostia-San Sebastián and Pasaia were discharged into Oiartzun and Urumea's estuaries until 1970's. In 1970 Urumea's outfall was built to collect the discharges from Urumea estuary; and in 1996, San Pedro's outfall (cala Murgita) was

built to collect the discharges from Oiartzun estuary. In 2001, the Mompás submarine outfall was built, diverting wastewater from Urumea outfall, and discharging it without treatment. In 2006, Mompás wastewaters physic-chemical and biological treatment started at the Water Treatment Plant (WTP) of Loiola. Finally, in 2007, San Pedro's outfall waters were also treated at this WTP and discharged through the Mompás submarine outfall. Currently, this submarine outfall serves a population of 628,000 inhabitants, and has an average flow of 150,000 m³ day⁻¹.

In addition, in the Hondarribia coastal area, the elimination of discharges from Bidasoa estuary started in 1998. In 2000, the untreated discharges were diverted to the Atalerreka submarine outfall (Figure 1). In 2003, the WTP was completed and all discharges were biologically treated. Currently, this WTP serves a population of 88,000 inhabitants, with an average flow of 29,575 m³ day⁻¹.

Study locations and sampling design

Within this zone, wave action is predominantly from the northwest. The coast is delimited by moderate to high cliffs (20-150 m) (Pascual *et al.*, 2004). Tides are semidiurnal and the maximum range during spring tides is 4.5 m. Mean water

surface temperature ranges between 12°C in February and 22°C in August (Valencia *et al.*, 2004). Three locations were selected for the study: two in the coastal area between Donostia-San Sebastian and Pasaia, and one in Hondarribia coastal area (Figure 1). These locations were studied independently.

In the coastal area between Donostia-San Sebastian and Pasaia, two transects were set from intertidal to subtidal zone: Urumea outfall (Urumea) and San Pedro outfall (cala Murgita). Five sampling sites were located along those transects, two in the intertidal (midlittoral and infralittoral fringes) and three in the subtidal zone (5, 15 and 25 m depth). In those locations, 28 surveys were carried out over the period 1997-2012, in summer. In Urumea, 12 surveys were conducted after discharges were diverted to Mompás submarine outfall (2001-2012). Nevertheless, in cala Murgita, 5 surveys were undertaken when wastewaters were discharged without treatment (1997-2001), 5 surveys were conducted when Murgita was only used like overflow tank (2002-2006) and 6 surveys (2007-2012) were undertaken when discharges were diverted to Mompás submarine outfall (Figure 2).

Additionally, in Hondarribia coastal area, three parallel transects were set for Atalerreka: one control (BA), one near from the point of discharge (BB), and the last one (BC) to the

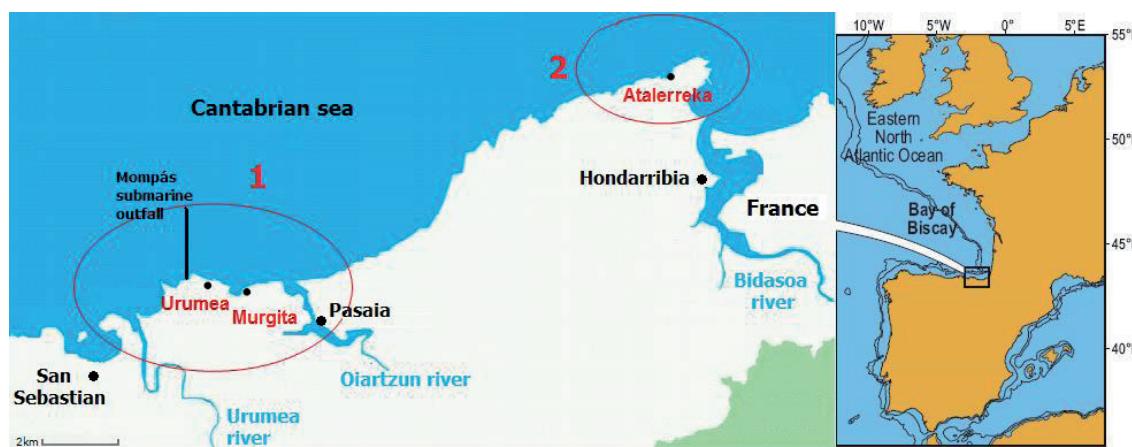


Figure 1. Map of the study area showing the selected locations: coastal area between Donostia-San Sebastian and Pasaia (1), and Hondarribia coastal area (2).



Figure 2. Evolution of the wastewaters management phases and sampling period for Atalerreka (A), Urumea (U) and Murgita (M).

east, in the direction of main currents in the area. In this case, 3 sampling sites were located along those transects, one in the intertidal zone and two more in the subtidal zone (5 and 15 m depth). One survey was carried out before discharges started (1999), 4 surveys were conducted while wastewaters were discharged without treatment (2001-2003) and, finally, 10 surveys were conducted once wastewaters received treatment before discharging (2004-2013) (Figure 2). All surveys were undertaken in winter, except that of 1999 (summer).

Samples (0.25 m^2) were collected by scuba-diving in subtidal zones. In the intertidal zone the samples were collected directly in low tide (surface of 0.063 m^2). All samples were taken by totally scraping off the rocks in order to collect both the motile and sessile biota. Taxonomic identification was mostly carried out at the species level, but in some difficult groups the identification was at family level or even higher taxonomic categories (Annex 1). Finally, all organisms were counted and specific dry-weight biomass was estimated (after drying at 80°C for 24h).

Statistical analysis

Samples were named using a combination of sampling area, year of sampling transect and depth (e.g., A-1999-BA5). In order to study the trends in the composition of the communities close to Urumea, Murgita and Atalerreka, data from the three areas were treated separately. Biomass data were used along the study to avoid loosing colonial species information, including fauna and flora. In adition, information about higher taxonomic groups (genus, family, order, class and phylum) was aggregated to species using World Register of Marine Species (<http://www.marinespecies.org> accessed June 2014). When identification was provided at family level or even higher taxonomic categories, lower taxonomic categories are named using the same taxonomic name followed by the abbreviation of the taxon (e.g., *Acanthonotozomatidae* sp., *Acanthonotozomatidae* gn.) (Annex 1). This way, possible mistakes including the information of species at the database were avoided.

Data were plotted showing straightforward univariate measures using DIVERSE function from the PRIMER software package, developed by Clarke and Warwick (1994): the total number of species (S), Pielou's evenness (J') and Shannon diversity (H'). The main goal of these univariate measures, besides providing a detailed initial inventory of the area studied, is to simplify the interpretation of the information by highlighting possible patterns, gradients and trends. Spatio-temporal patterns of species richness, diversity and evenness were examined by regressions and also using analysis of variance (ANOVA) with Statgraphics software.

Then, multivariate analysis of the data was carried out using PRIMER. Analyses of multivariate differences in community structure are able to detect impact at an ecological relevance level of organization and therefore are of special utility in environmental impact assessment (Underwood, 1993; Hewitt *et al.*, 2005). Information of the sampling year, season, area, depth and transect was added to each sample. Since the

biological information available consisted of the biomass data, in order to downweight the influence of the more abundant taxa, log (X+1) preliminary transformation was considered necessary (Clarke and Warwick, 2001).

After performing a resemblance matrix, samples were represented by hierarchical classification and ordination techniques based on Bray-Curtis similarity. Dendograms in the cluster analysis were represented after selecting the group-averaging linkage option. Species contributions to similarity between groups and discriminating groups (SIMPER) were also included.

In addition, species were aggregated into functional groups (Annex 1), following different literature (Fauchald and Jumars, 1979; Craft and Sacco, 2003; Fanelli *et al.*, 2009; De-La-Ossa-Carretero *et al.*, 2012; Cabral-Oliveira *et al.*, 2014; Guerra-García *et al.*, 2014) in order to examine changes in the community trophic guilds biomass. The trophic approach can provide indirect information on the physical variables of the environment, as variations in the relative abundance of each strategy might respond to changes in the environmental conditions (natural or anthropogenic) (Roth and Wilson, 1998).

Species biomass data were examined by multivariated analysis of variance (ANOVA) using Statgraphics software. The factors considered were: year, season, tidal level, location, trophic guilds and the management phases (without discharge, overflow tank, discharge without treatment and discharge with treatment).

The statistically significant level was established at alpha = 0.05.

Results

The three locations showed a significant increase of species richness over studied time (Figure 3a; Table 1). Nevertheless, the values obtained from evenness and diversity showed a wide variation, not seeing any evolution or trend with time (Figures 3b and 3c; Table 1).

On the other hand, analysis of variance to compare mean values of species richness with three different levels in the evolution of the discharge of wastewaters, showed significant differences in the case of Murgita. Nevertheless, simple ANOVA did not detect significant differences between the species richness and the management phases for Atalerreka (Table 2). Regarding to evenness and diversity after discharges removal, in both variables there was an initial rapid increase, then a small decline, followed by a progressive increase towards stabilization (Figure 3). However, statistically no differences were found between the evolution of the management phases and evenness or diversity (Table 3).

Samples represented by hierarchical classification and ordination techniques based on Bray-Curtis similarity showed principal differences between sampling depths (Figures 4 and 5). Hence, cluster and MDS analyses were carried out for each tidal level.

Table 1: Simple ANOVA results comparing values of species richness with time. * $p < 0.05$.

Species Richness		Urumea			
Model	df	Sum of Squares	Mean Square	F	Sig.
Regression	1	14470.50	14470.50	36.823	0.0001*
Residual	10	3929.74	392.97		
Total	11	18400.25			

Species Richness		Murgita			
Model	df	Sum of Squares	Mean Square	F	Sig.
Regression	1	19095.01	19095.01	22.497	0.0003*
Residual	14	11882.73	848.7670		
Total	15	30977.75			

Species Richness		Atalerreka			
Model	df	Sum of Squares	Mean Square	F	Sig.
Regression	1	2938.53	2938.53	7.916	0.0156*
Residual	12	4454.32	371.19		
Total	13	7392.85			

Table 2. Simple ANOVA results comparing values of species richness with the evolution of the management phases (groups) in Atalerreka and Murgita. * $p < 0.05$.

Atalerreka			Murgita							
Model	Sum of Square	df	Mean Square	F	Sig.	Sum of Square	df	Mean Square	F	Sig.
Between groups	2321.22	2	1160.61	2.52	0.1258	15903.1	2	7951.54	6.86	0.0093*
Within groups	5071.64	11	461.058			15074.7	13	1159.59		
Total	7392.86	13				30977.7	15			

Table 3. Simple ANOVA results comparing values of Pielou's evenness or Shannon diversity with the management phases.

ANOVA Atalerreka-Shannon's * Atalerreka-Management phases					
Model	Sum of Square	df	Mean Square	F	Sig.
Between groups	0.1164	2	0.0582	0.20	0.8211
Within groups	3.1897	11	0.2900		
Total	3.3061	13			

ANOVA Atalerreka-Pielou's * Atalerreka- Management phases

Fuente	Sum of Square	df	Mean Square	F	Sig.
Between groups	0.0140	2	0.0070	1.16	0.3487
Within groups	0.0665	11	0.0060		
Total	0.0806	13			

ANOVA Murgita-Pielou's * Murgita- Management phases

Fuente	Sum of Square	df	Mean Square	F	Sig.
Between groups	0.0209	2	0.0104	0.47	0.6369
Within groups	0.2902	13	0.0223		
Total	0.3110	15			

ANOVA Murgita-Shannon's * Murgita-Management phases

Fuente	Sum of Square	df	Mean Square	F	Sig.
Between groups	0.7156	2	0.3578	0.34	0.7181
Within groups	13.6881	13	1.0529		
Total	14.4037	15			

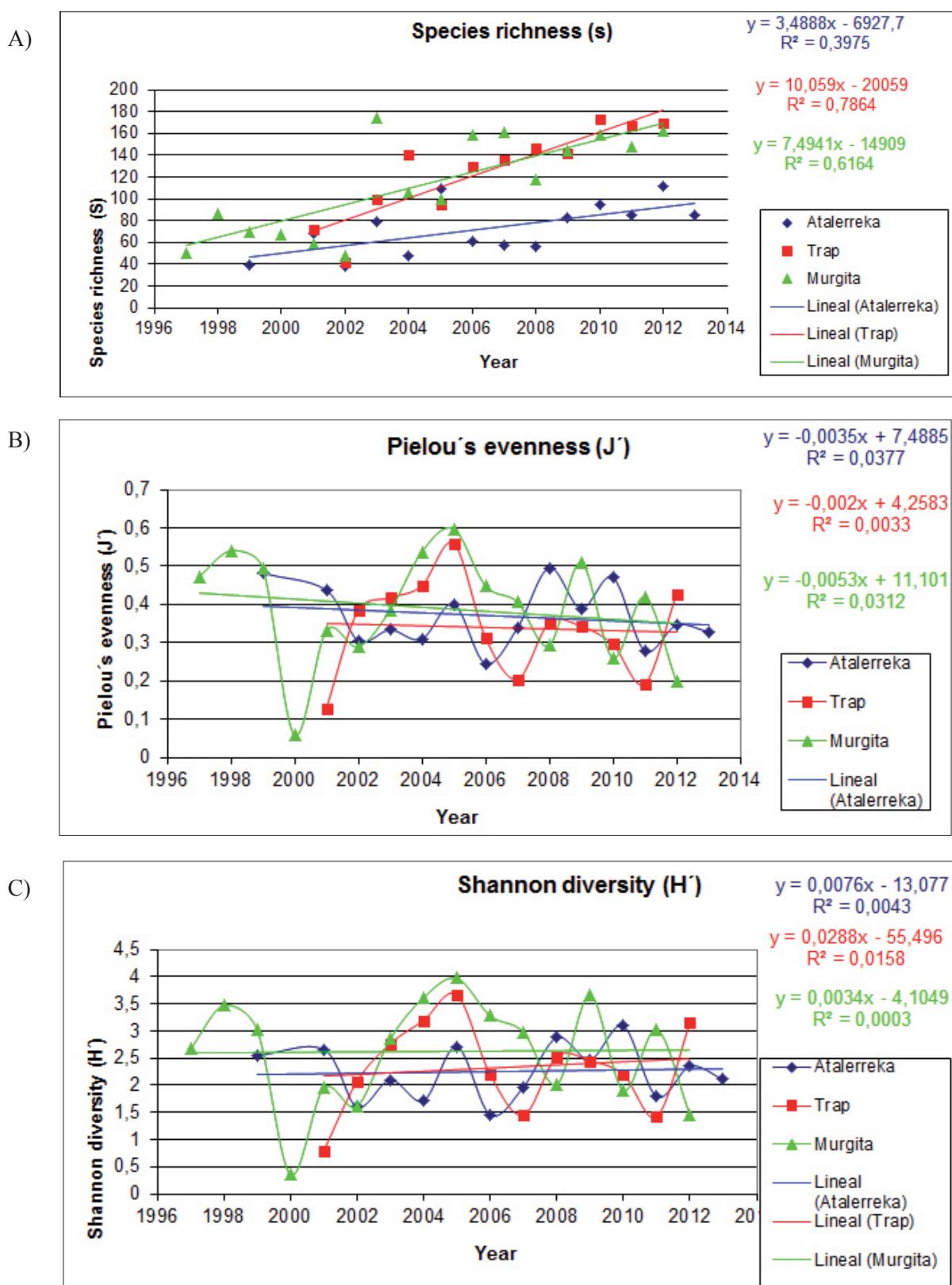


Figure 3. (a) Species richness, (b) Pielou's evenness and (c) Shannon's diversity trends with time in the three studied locations.

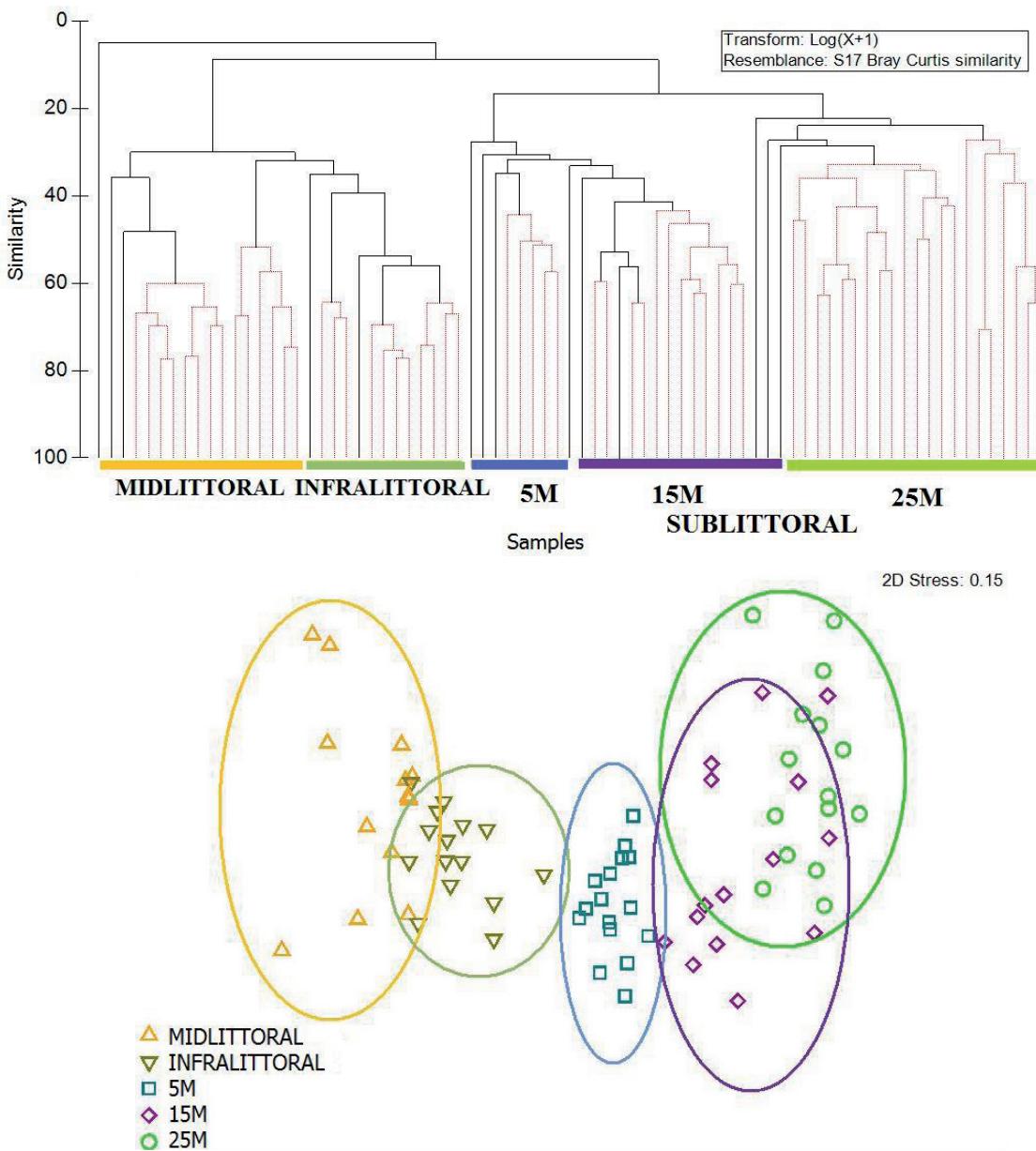


Figure 4. Murgita samples dendrogram showing differences between tidal levels and MDS classification based on Bray-curtis similarity.

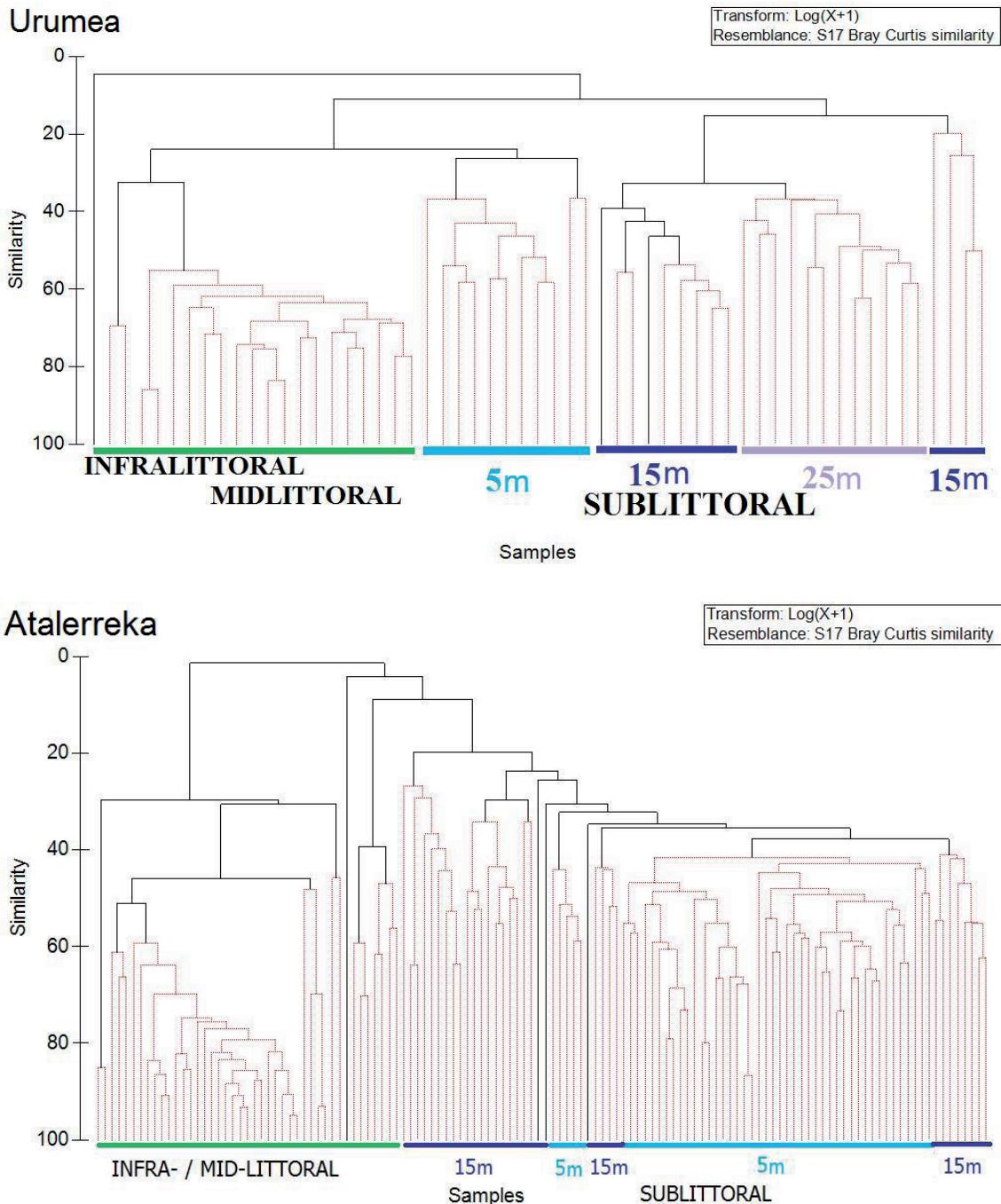


Figure 5. Atalerreka and Urumea samples dendrogram based on Bray-curtis similarity showing differences between tidal levels.

Cluster classification for Urumea detected two groups at the infralittoral fringe: the first year (2001, group A) on one side, and the next ones (2002-2012, group B) on the other side (Figure 6a). The same pattern was observed in MDS analysis (Figure 6b). The SIMPER procedure identified 12 taxa as the most important in differentiating assemblages located at group A from those at group B. The analysis showed that species like *Mytilus edulis*, *Jania rubens* and *Balanus* sp. disappear completely from group A to group B, while appear others like *Perforatus perforatus*, *Patella intermedia*, *Mytilus galloprovincialis*, *Caulacanthus ustulatus* and *Chthamalus* sp. (Table 4).

Regarding Atalerreka, cluster classification detected five groups at 15 m sublittoral zone. First, the composition of the groups did not show any continuity; even more, some samples from years 2001 and 2013 are in the same group.. Secondly there were not differences between control (BA) and the remainder transects (BB and BC). Moreover, no differences were observed between the summer (1999) and winter samples at this depth

(Figure 7). SIMPER analysis showed that the species which best explain the difference between groups in group A were *Cystoseira baccata*, *Echinaster sepositus* and *Lithophyllum incrustans*. In group B *Gelidium corneum*, *Mesophyllum lichenoides* and *L. incrustans* were the most common species (Tables 5 and 6). However, the main species in group C were *M. lichenoides*, *Pterosiphonia complanata* and *Peyssonnelia atropurpurea*.

Finally, in the case of Murgita, cluster classification revealed 6 groups at 15 m sublittoral zone: group A (1999-2001, 2004), group B (2002), group C (2003), group D (2005, 2009), group E (2006) and group F (2007, 2008, 2010-2012) (Figure 8). Nevertheless, The MDS plot does not show clear effects with time. SIMPER analysis showed that the main species in group A were *Verruca stroemia*, *Bittium reticulatum* and *Nassarius incrassatus*. On the other hand, in group F *Mesophyllum lichenoides*, *Pterosiphonia complanata*, *Lithophyllum incrustans*, *Nassarius incrassatus* and *Gelidium corneum* were the most common species (Table 7). The main

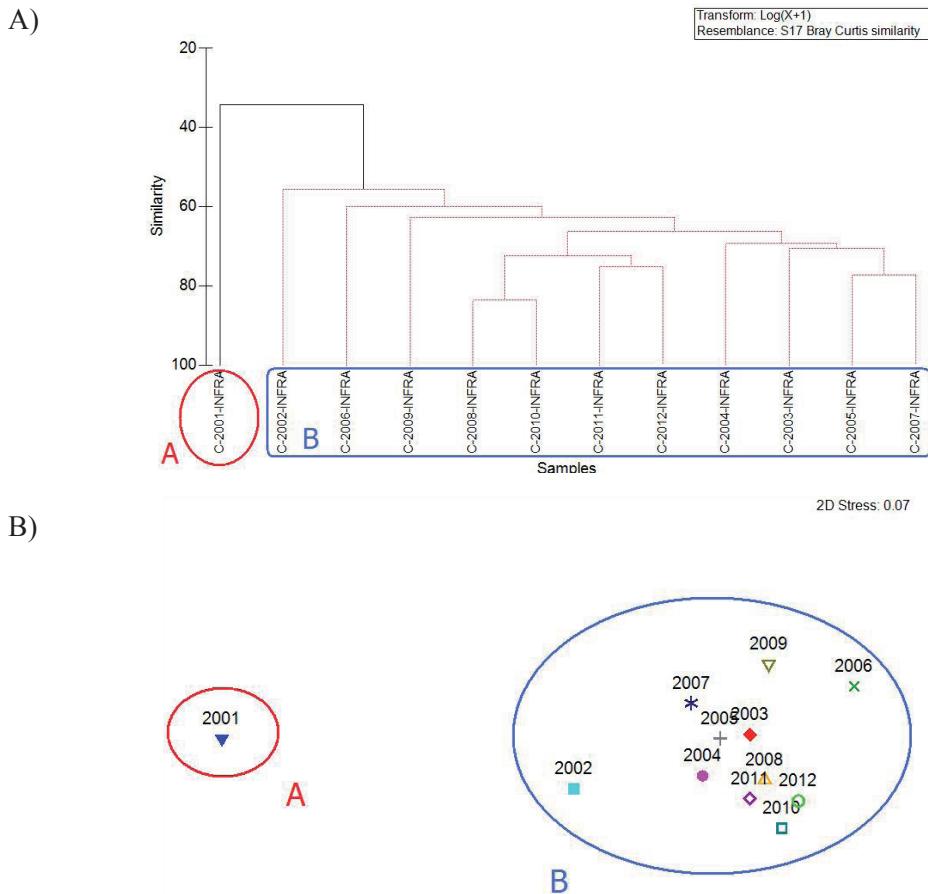
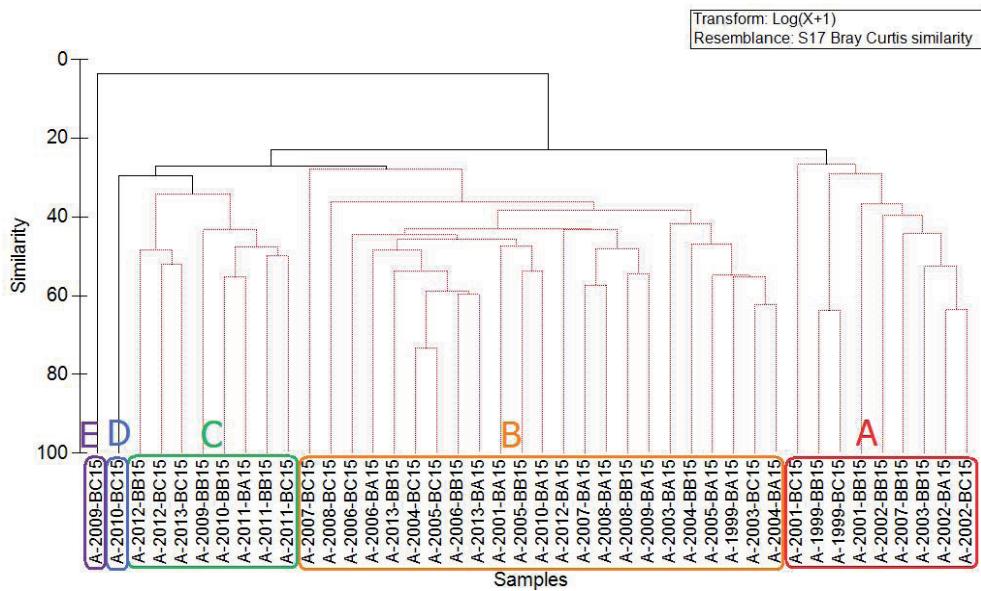


Figure 6. a) Urumea infralittoral fringe dendrogram. Two groups (factors) were identified using SINPROF test (1000 permutations; 999 simulations) in cluster classification based on Bray-curtis similarity. b) Urumea infralittoral fringe MDS classification based on Bray-curtis similarity.

Table 4. SIMPER results showing the Average Bray-Curtis dissimilarity values between Urumea groups A and B in contributions from the most important taxa. The taxa included have values exceeding an arbitrarily chosen contribution value of 1%.

Urumea		Groups A & B					
Average dissimilarity = 65.63		Group A	Group B				
Species		Av. Abund.	Av. Abund.	Av. Diss.	Diss./SD	Contrib. %	Cum. %
<i>Mytilus edulis</i>		6.6	0	7.69	7.38	11.71	11.71
<i>Perforatus perforatus</i>		0	5.19	6.07	3.91	9.26	20.97
<i>Patella intermedia</i>		0	4.83	5.4	2.77	8.23	29.2
<i>Mytilus galloprovincialis</i>		0	4.44	5.1	4.45	7.78	36.98
<i>Balanus</i> sp.	3.99	0	4.65	7.38	7.09	44.06	
<i>Caulacanthus ustulatus</i>		0	2.95	3.3	1.39	5.02	49.09
<i>Chthamalus</i> sp.		0	2.9	3.26	1.25	4.97	54.06
<i>Mytilaster minimus</i>	1	3.59	3.17	2.69	4.83	58.89	
<i>Jania rubens</i>	2.51	0	2.92	7.38	4.46	63.35	
<i>Lithophyllum incrustans</i>	5.71	4.98	2.06	1.72	3.13	66.48	
<i>Lithophaga aristata</i>	3.46	2.08	1.77	1.09	2.7	69.18	
<i>Ellisolandia elongata</i>	5.31	6.8	1.7	3.07	2.59	71.77	

**Figure 7** Atalerreka 15 m sublittoral zone dendrogram. Five groups (A, B, C, D, E) were identified using SINPROF test (1000 permutations; 999 simulations) in cluster classification based on Bray-curtis similarity.

difference between those groups was the increase on those species indicated in group F (Table 8).

The relative abundance of the trophic guilds of the community showed temporal differences between years only in Urumea, while, no differences were found between years for Atalerreka and Murgita (Figure 9). Therefore, regarding to Urumea, cluster classification revealed 5 groups with time (Figure 10). Initially, trophic groups like suspension feeders, deposit feeders and predators nearly represented the entire community; nevertheless in recent years, omnivores, grazers

and predators play a more important role (Table 9).

Finally, ANOVA detected significant differences in the species biomass between tidal level, transect, trophic guilds and management phases. However, no differences were detected between biomass and season (Table 10).

Table 5. SIMPER results showing the Average Bray-Curtis similarity values between Atalerreka clusters broken down into contributions from each species; species are ordered in decreasing order of contribution. The species included have values exceeding an arbitrarily chosen contribution value of 4%.

ATALERREKA		Group C			
Average similarity: 40.43		Av.Abund.	Av.Sim.	Sim./SD	Contrib.%
Species					Cum.%
<i>Mesophyllum lichenoides</i>		3.81	13.38	3.1	33.1
<i>Pterosiphonia complanata</i>		0.95	2.93	3.13	7.25
<i>Peyssonnelia atropurpurea</i>		1.33	2.59	1.06	6.41
<i>Cliona celata</i>		1.21	2.32	0.86	5.74
<i>Halopteris filicina</i>		0.84	1.9	0.77	4.7
<i>Bittium latreillii</i>		0.74	1.68	0.92	4.16
<i>Hymeniacidon perlevis</i>		1.08	1.64	0.57	4.05
					65.39

ATALERREKA		Group B			
Average similarity: 41.05		Av.Abund.	Av.Sim.	Sim./SD	Contrib.%
Species					Cum.%
<i>Gelidium corneum</i>		3.65	11.44	1.99	27.88
<i>Mesophyllum lichenoides</i>		3.27	10.4	1.99	25.34
<i>Lithophyllum incrassans</i>		2.89	7.09	1.26	17.27
<i>Plocamium cartilagineum</i>		0.96	2.05	0.99	4.99
					75.48

ATALERREKA		Group A			
Average similarity: 35.32		Av.Abund.	Av.Sim.	Sim./SD	Contrib.%
Species					Cum.%
<i>Cystoseira baccata</i>		3.15	11.33	1.43	32.08
<i>Lithophyllum incrassans</i>		2.1	6.34	1.23	17.96
<i>Echinaster sepositus</i>		2.2	5.13	0.59	14.53
<i>Halopteris filicina</i>		1.36	3.68	0.94	10.43
					75

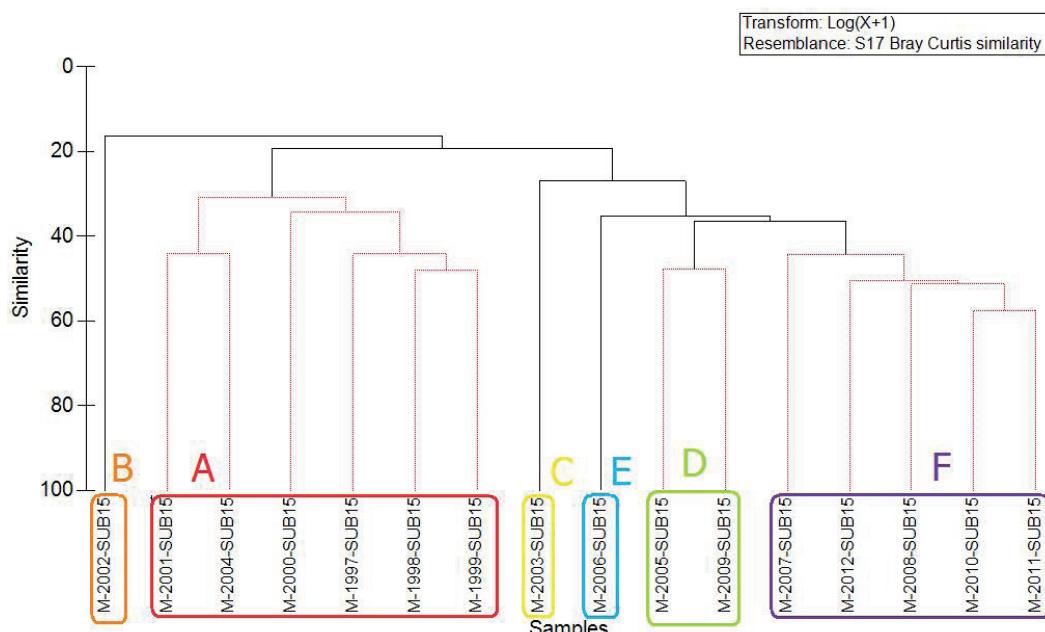


Figure 8. Murgita 15 m sublittoral zone dendrogram. Six groups (factors) were identified using SINPROF test (1000 permutations; 999 simulations) in cluster classification based on Bray-curtis similarity.

Table 6. SIMPER results showing the Average Bray-Curtis dissimilarity values between Atalerreka groups in contributions from the most important taxa. The taxa included have values exceeding an arbitrarily chosen contribution value of 3%.

ATALERREKA						
Average dissimilarity = 72.87	Group b		Groups B & C			
Species	Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
<i>Gelidium corneum</i>	3.65	0.36	6.79	2.46	9.32	9.32
<i>Lithophyllum incrustans</i>	2.89	0.22	5.46	1.67	7.5	16.81
<i>Echinaster sepositus</i>	0.63	1.13	2.82	0.87	3.87	20.69
<i>Peyssonnelia atropurpurea</i>	0.23	1.33	2.8	1.11	3.84	24.53
<i>Mesophyllum lichenoides</i>	3.27	3.81	2.76	1.38	3.79	28.31
<i>Cliona celata</i>	0.26	1.21	2.56	1.08	3.52	31.83
<i>Hymeniacidon perlevis</i>	0.22	1.08	2.18	1.01	3	34.83

ATALERREKA						
Average dissimilarity = 75.11	Group a		Groups A & B			
Species	Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
<i>Gelidium corneum</i>	0.74	3.65	6.88	2	9.16	9.16
<i>Cystoseira baccata</i>	3.15	1.1	5.92	1.6	7.89	17.05
<i>Mesophyllum lichenoides</i>	1.06	3.27	5.82	1.73	7.74	24.79
<i>Echinaster sepositus</i>	2.2	0.63	4.82	1.08	6.42	31.21
<i>Lithophyllum incrustans</i>	2.1	2.89	4.18	1.42	5.57	36.78
<i>Halopteris filicina</i>	1.36	0.31	2.81	1.23	3.74	40.52

ATALERREKA						
Average dissimilarity = 81.94	Group a		Groups A & C			
Species	Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
<i>Cystoseira baccata</i>	3.15	0	7.19	2.05	8.77	8.77
<i>Mesophyllum lichenoides</i>	1.06	3.81	6.72	1.92	8.2	16.97
<i>Echinaster sepositus</i>	2.2	1.13	4.8	1.19	5.86	22.83
<i>Lithophyllum incrustans</i>	2.1	0.22	4.48	1.42	5.46	28.29
<i>Peyssonnelia atropurpurea</i>	0.05	1.33	2.98	1.06	3.63	31.92
<i>Cliona celata</i>	0	1.21	2.84	1.06	3.47	35.39

Table 7. SIMPER results showing the Average Bray-Curtis similarity values between Murgita clusters broken down into contributions from each species; species are ordered in decreasing order of contribution. The species included have values exceeding an arbitrarily chosen contribution value of 2%.

MURGITA					
Group A					
Species	Av.Abund.	Av.Sim.	Sim./SD	Contrib.%	Cum.%
<i>Verruca stroemia</i>	1.58	9.08	2.17	25.71	25.71
<i>Bittium reticulatum</i>	1.44	7.42	1.69	21.01	46.72
<i>Nassarius incrassatus</i>	1.14	6.91	2.55	19.56	66.29
<i>Ocenebra erinaceus</i>	0.41	1.8	1.18	5.1	71.38
<i>Caryophyllia inornata</i>	0.84	1.44	0.3	4.09	75.48
<i>Hiatella arctica</i>	0.48	1.27	0.65	3.61	79.08
<i>Lithophyllum incrustans</i>	0.78	0.99	0.26	2.79	81.87
<i>Sabellaria spinulosa</i>	0.38	0.92	0.61	2.61	84.49
<i>Lysidice ninetta</i>	0.28	0.88	0.8	2.48	86.97
<i>Rissoa parva</i>	0.2	0.85	1.04	2.4	89.37

MURGITA					
Group F					
Species	Av.Abund.	Av.Sim.	Sim./SD	Contrib.%	Cum.%
<i>Mesophyllum lichenoides</i>	4.77	10.75	2.89	21.98	21.98
<i>Pterosiphonia complanata</i>	3.68	8.95	21.41	18.29	40.28
<i>Lithophyllum incrustans</i>	2.24	3.97	1.38	8.11	48.39
<i>Nassarius incrassatus</i>	1.56	3.94	5.94	8.05	56.43
<i>Gelidium corneum</i>	2.42	2.66	0.68	5.44	61.88
<i>Bittium latreillii</i>	1.48	2.12	0.85	4.33	66.2
<i>Asparagopsis armata</i>	0.76	1.32	2.85	2.69	68.9
<i>Cryptopleura ramosa</i>	0.77	1.28	2.17	2.61	71.51
<i>Ocenebra erinaceus</i>	0.75	1.25	1.86	2.55	74.06

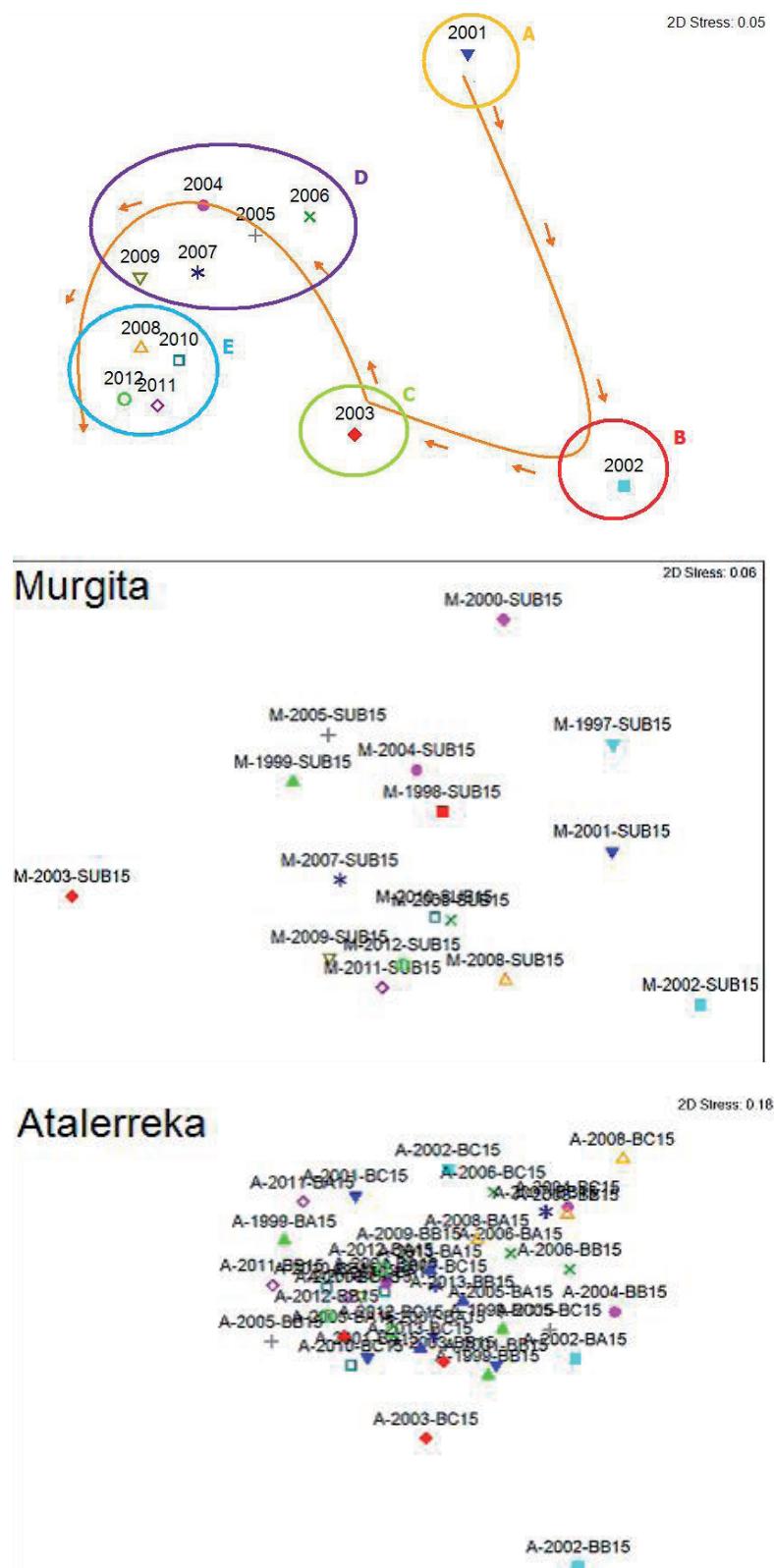


Figure 9. MDS analysis based on Bray-Curtis similarity computed for trophic guilds evolution at the three sampled sites.

Table 8. SIMPER results showing the Average Bray-Curtis dissimilarity values between Murgita groups in contributions from the most important taxa. Only the most significant comparisons are shown. The taxa included have values exceeding an arbitrarily chosen contribution value of 3%..

MURGITA						
Average dissimilarity = 87.00		Groups A & B				
Species	Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
<i>Lithophyllum incrustans</i>	0.78	3.76	12.55	2.09	14.42	14.42
<i>Ellisolania elongata</i>	0	2.57	10.79	5.69	12.4	26.82
<i>Verruca stroemias</i>	1.58	0	6.46	2.52	7.42	34.25
<i>Bittium reticulatum</i>	1.44	0	5.84	1.92	6.72	40.96
<i>Nassarius incrassatus</i>	1.14	0	4.72	2.59	5.42	46.39
<i>Balanus</i> sp.	1.15	0	4.66	0.5	5.35	51.74
<i>Caryophyllia inornata</i>	0.84	0	3.68	0.64	4.23	55.97
MURGITA						
Average dissimilarity = 78.04		Groups A & C				
Species	Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
<i>Bittium reticulatum</i>	1.44	4.48	6.6	3.25	8.46	8.46
<i>Sabellaria spinulosa</i>	0.38	2.33	4.25	3.66	5.44	13.9
<i>Cryptopleura ramosa</i>	0.02	1.82	3.86	13.34	4.94	18.84
<i>Marthasterias glacialis</i>	0	1.72	3.71	11.2	4.75	23.59
<i>Nassarius pygmaeus</i>	0.25	1.79	3.37	2.38	4.32	27.91
<i>Rhodymenia pseudopalmata</i>	0.06	1.46	3.01	7.53	3.86	31.77
MURGITA						
Average dissimilarity = 64.44		Groups C & D				
Species	Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
<i>Bittium reticulatum</i>	4.48	2.05	4.05	2.4	6.28	6.28
<i>Mesophyllum lichenoides</i>	0	1.84	2.9	2.47	4.5	10.78
<i>Marthasterias glacialis</i>	1.72	0	2.81	8.09	4.36	15.14
<i>Dictyota dichotoma</i>	0.81	1.87	2.79	1.34	4.32	19.46
<i>Nassarius pygmaeus</i>	1.79	0.32	2.38	10.83	3.69	23.15
<i>Rhodymenia pseudopalmata</i>	1.46	0.09	2.23	4.58	3.47	26.62
MURGITA						
Average dissimilarity = 69.25		Groups C & E				
Species	Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
<i>Lithophyllum incrustans</i>	0	4.57	5.75	-	8.3	8.3
<i>Cutleria multifida</i>	0	4.06	5.1	-	7.36	15.66
<i>Mesophyllum lichenoides</i>	0	3.29	4.13	-	5.97	21.63
<i>Plocamium cartilagineum</i>	0	2.45	3.08	-	4.44	26.07
<i>Zanardinia typus</i>	0	2.44	3.06	-	4.42	30.49
<i>Cellepora pumicosa</i>	0	2.32	2.91	-	4.2	34.69
<i>Sabellaria spinulosa</i>	2.33	0.06	2.86	-	4.13	38.82
MURGITA						
Average dissimilarity = 83.36		Groups A & F				
Species	Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
<i>Mesophyllum lichenoides</i>	0	4.77	9.87	3.3	11.84	11.84
<i>Pterosiphonia complanata</i>	0.14	3.68	7.25	5.34	8.69	20.54
<i>Gelidium corneum</i>	0.34	2.42	4.49	1.29	5.39	25.92
<i>Lithophyllum incrustans</i>	0.78	2.24	3.82	1.54	4.59	30.51
<i>Verruca stroemias</i>	1.58	0.06	3.13	2.25	3.75	34.26
<i>Bittium latreillii</i>	0	1.48	3.13	1.4	3.75	38.01

Table 9. SIMPER results showing the Average Bray-Curtis dissimilarity values between Urumea clusters broken down into contributions from each trophic groups, which are ordered in decreasing order of contribution. The trophic guilds included have values exceeding an arbitrarily chosen contribution value of 1%.

Urumea		Groups A & B					
Average dissimilarity = 35.76		Group A	Group B				
Species		Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
Suspension feeder, Predator		6.7	0	9.27	-	25.91	25.91
Deposit feeder		6.05	0	8.37	-	23.42	49.33
Suspension feeder, Deposit feeder		4.64	0	6.42	-	17.95	67.28
Suspension feeder		8.61	11.46	3.94	-	11.02	78.3
Predator, Omnivore		5.42	2.83	3.59	-	10.03	88.33
Predator		5.81	4.23	2.18	-	6.1	94.42

Urumea		Groups B & C					
Average dissimilarity = 26.57		Group B	Group C				
Species		Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
Omnivore		0	4.52	6.03	-	22.68	22.68
Predator, Omnivore		2.83	6.74	5.22	-	19.65	42.33
Suspension feeder, Predator		0	2.99	3.99	-	15.02	57.35
Scavenger		0	2.38	3.17	-	11.95	69.29
Predator		4.23	6.11	2.51	-	9.44	78.73
Herbivore		3.13	4.86	2.31	-	8.71	87.44
Grazer		3.87	5.42	2.07	-	7.8	95.24

Urumea		Groups D & C					
Average dissimilarity = 24.20		Group C	Group D				
Species		Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
Suspension feeder, Predator		2.99	9.72	6.47	4.55	26.73	26.73
Omnivore		4.52	0	4.34	22.26	17.92	44.65
Deposit feeder		0	2.91	2.79	7.99	11.55	56.2
Suspension feeder		11.78	14.14	2.46	0.83	10.16	66.35
Scavenger		2.38	0.48	1.82	1.78	7.51	73.86
Grazer		5.42	7.3	1.8	1.34	7.45	81.31
Herbivore		4.86	6.08	1.41	1.42	5.82	87.13
Predator Omnivore		6.74	7.54	1.25	2.26	5.18	92.31

Urumea		Groups D & E					
Average dissimilarity = 19.66		Group D	Group E				
Species		Av.Abund.	Av.Abund.	Av.Diss.	Diss./SD	Contrib.%	Cum.%
Suspension feeder, Predator		9.72	3.4	5.73	3.69	29.18	29.18
Suspension feeder		14.14	16.69	3.52	2.32	17.9	47.07
Detritivore		1.87	0	1.66	1.73	8.45	55.53
Herbivore		6.08	4.79	1.62	1.42	8.26	63.79
Predator, Omnivore		7.54	9.21	1.62	1.27	8.22	72.02
Omnivore		0	1.75	1.57	1.64	8	80.02
Grazer		7.3	8.49	1.44	1.37	7.32	87.34
Suspension feeder, Deposit feeder		0.4	0.59	0.72	0.74	3.68	91.02

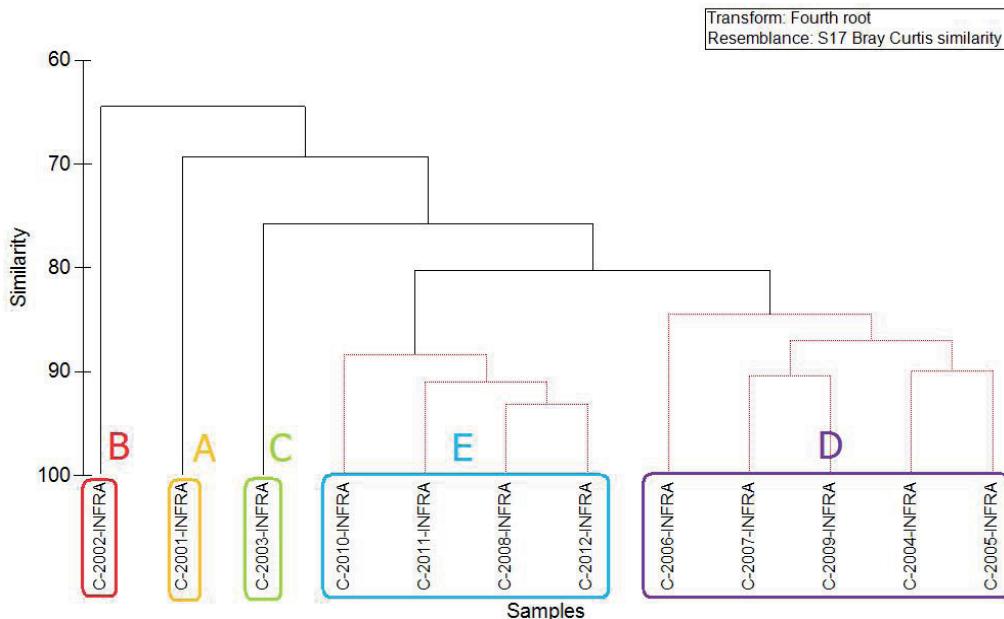


Figure 10. Urumea infralittoral fringe trophic guilds dendrogram. Five groups were identified using SINPROF test (1000 permutations; 999 simulations) in cluster classification based on Bray-curtis similarity.

Table 10. Biomass ANOVA results testing the effect of season, tidal level, transect, trophic guilds and management phases on faunal biomass. * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

	Sum of Squares	Df	Mean Square	F	Sig.
COVARIABLE					
Depth	7.77692	1	7.77692	31.08	0.0000***
Management phases	1.52196	1	1.52196	6.08	0.0137*
PRINCIPAL EFFECTS					
A:Transect	4.71856	5	0.94371	3.77	0.0021**
B:Season	0.07986	1	0.07986	0.32	0.5721
C:Trophic guild	1329.52	13	102.271	408.75	0.0000***
RESIDUAL	905.25	3618	0.25021		
TOTAL	2270.56	3639			

Discussion

Despite the differences in the management actions taken within each of the three studied locations, all of them show a significant increase in species richness. This increase could be related to the removal of discharges or its complete biological treatment. Hence, in recent years the benthic communities seem to reach some stability in terms of richness few years after treatment completion: (i) around 170 species, after 2010, in Urumea (treatment completed in 2001); (ii) around 150 species, after 2009, in Murgita (completed in 2007); and (iii) around 100 species, after 2009, in Atalerreka (completed in 2003).

In turn, despite the absence of trends in diversity and evenness with time, both variables show multiple changes in their values, which seems to be related to management phases at the three locations although not being statistically significant.

In fact, when the discharges end, the benthic communities showed the same pattern of change, but taking place at different times. Hence, after discharges removal, there was an initial rapid increase in diversity, then a small decline, followed by a progressive increase towards stabilization, following the successional stages within Pearson and Rosenberg's (1978) model for the recovery of benthic ecosystems.

The extent to which marine assemblages are affected by sewage discharges varies from little or no impact to major changes (Pastorrock and Bylard, 1985). Recovery of assemblages after the closure of sewage outfalls is documented, but signs of recovery may vary depending on management measures taken (e.g. physic-chemical and/or biological treatment), the response variables and habitats analysed (Archambault *et al.*, 2001), or may not be detected at all (Underwood and Chapman, 1996). In fact, the recovery of different ecosystem components after restoration can extend from months to decades, depending on the intensity and duration of the previous pressure (Borja *et*

al., 2010; Verdonschot *et al.*, 2013). So that, when comparing the management phases with changes in different variables, initially relations could not be found since these changes may occur later than expected. In fact, other studies suggested that species richness can change significantly under continuous disturbance pressure, whereas slightly altered conditions may change species diversity more slowly (Díez *et al.*, 2012; Bevilacqua *et al.*, 2012).

In addition, ANOVA results, comparing species richness with the management phases, show that there is a significant relationship in Murgita, but not in Atalerreka. Some reasons for these differences can be: (i) the discharge in Atalerreka is 6 times lower than in Murgita; and (ii) the wave energy in Atalerreka is much higher than in Murgita (Galparsoro *et al.*, 2012). Both factors contribute to a higher dilution of the discharges in Atalerreka comparing to Murgita, making difficult to find differences between the management phases.

Although the discharges in the studied area occur at different levels (in the low intertidal zone in Urumea and at 15 m deep in Atalerreka and Murgita), the response of the communities was studied at different intertidal and subtidal zones (midlittoral, infralittoral, 5, 15 and 25 m), looking for common patterns within the three locations.

In Urumea, most of the symptoms of recovery after the discharge removal occurred at the infralittoral fringe and 5 m water depth but improvement evidences were also recorded in all the other investigated sampling depths.

On one hand, regarding to changes at species level in Urumea, the main difference between groups is due to the dominance of species like mussels, barnacles and cirripedes, being all of them species feeding on particles. The highest presence in the intertidal area (midlittoral and infralittoral fringes) of Patellidae (herbivorous gastropods) and Chthamalidae barnacles (suspension feeders) could be related to decreasing environmental stress values. In fact, this has been observed by Tablado *et al.* (1994) and Mettam (1994). As intense disturbances cause major regressions in organisms capable of forming horizons (Clark, 1992), the removal of such pressure will promote the increase of those species, as recorded in the studied area.

On the other hand, regarding to trophic guilds in Urumea, trophic groups' diversity increases with time. Hence, in general, before waste treatment, the most dominant guilds are deposit- and suspension-feeders, which indicate a large amount of available organic matter in suspension, probably coming from the discharges. In turn, the increase of omnivores and predators after waste treatment, and a more equitable distribution of trophic groups in that phase, indicate a healthier ecosystem functioning and, as such, an improvement in the quality of the environment (Bremner *et al.*, 2006).

In Murgita, as expected, most of the symptoms of recovery after the mitigation treatment occurred at 15 m water depth. According to Borja *et al.* (2004) the eastern Basque coast (Gipuzkoa) presents homogenous vegetation composed mainly of extensive beds of *G. corneum*, extending from 0 to 10-15 m water depth. However, when untreated discharge is present,

species of cirripedes as *Verruca stroemia* and gastropods as *Nassarius incrassatus* and *Bittium reticulatum* dominate. This dominance of *V. stroemia* is present in *Halopteris filicina* community, in which fauna consists of a cover of this Cirripedia. But this community appears in water depths ranging from 25 to 50 m (Borja *et al.*, 2000). So its presence at 15 m could be promoted by an increase in organic matter, as these animals are suspension feeders. The same fact could occur with the presence of the scavenger gastropod *N. incrassatus*. Nevertheless, when the discharge ended, *G. corneum* community started to recover. In fact, species like *G. corneum*, *M. lichenoides*, *P. complanata* and *Lithophyllum incrustans* take a more important role while Cirripedia and gastropod decrease.

In Atalerreka, like in Murgita, most of the symptoms of recovery after the mitigation treatment occurred at 15 m water depth. According to changes at species level, even when there was no discharge, *C. baccata* community dominates the middle sublittoral. In unpolluted habitats *C. baccata*, *Laminaria ochroleuca* and *Gelidium corneum* were found (Borja *et al.*, 2004). Borja *et al.* (2000) described, for example, the *L. ochroleuca-C. baccata* community at the western Basque coast, from 5 to 20 m water depth. After the start of the discharge, *C. baccata* begins to disappear, being replaced by *G. corneum* and *Mesophyllum lichenoides*. Species with high quality environmental requirements, such as *Cystoseira tamariscifolia*, *C. baccata*, *Bifurcaria bifurcata*, *G. corneum*, *Gigartina pistillata* and *Laurencia obtusa*, deteriorate rapidly when pollution increases (Díez *et al.*, 1999). Finally, after applying discharge treatment, *M. lichenoides* and *Pterosiphonia complanata* become dominant. It has been noted in other studies that these species showed a positive relationship with pollution, incorporating a wider range of sedimentation and wave exposure levels (Borja *et al.*, 2004).

Last but not least, general multivariate ANOVA detected significant differences in the species biomass between tidal levels, transects, trophic guilds and management phases. Therefore, in general, the changes occurred at each sampling location are related to the different management phases of discharges.

As conclusion, it seems that the different management phases of the wastewater discharges within the eastern part of the Basque coast, can be detected by some univariate variables (e.g. species richness), being more difficult to be detected by diversity or evenness. In turn, changes in trophic guilds and multivariate analyses seem to be an adequate way to monitor and assess these changes and to inform managers and the society in general.

Weaknesses and future research

Some authors have highlighted the difficulty of obtaining adequate data to study the responses of hard-bottom benthic communities (Pagola-Carte, 2004). Hence, by gathering information on abiotic variables (physical and chemical data), the interpretation of biological responses to human induced

changes would be better explained. The establishment of reliable monitoring networks will facilitate the comprehension on natural spatiotemporal variability of assemblages, which in turn, is essential to accurately assess human environmental impacts in the marine environment. The lack of previous data before the three discharges started, together with the especial circumstance of no suitable controls founded, complicated the interpretation of the results. If those problems could be overtaken, these datasets can provide a powerful tool for additional studies on human impacts on benthic communities and their recovery.

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Annex 1. Hard bottom species recorded in the study area, listed in alphabetical order. Each species contains taxonomic identification and trophic traits (trophic guild). When identification was provided at family level or even higher taxonomic categories, lower taxonomic categories are named using the same taxonomic name followed by the abbreviation of the taxon (e.g., *Acanthonotozomatidae* sp., *Acanthonotozomatidae* gn.). Each trophic guild has an identification number in brackets.

Species	Genus	Family	Order	Class	Phylum	Trophic guild
<i>Abuludomelita gladiosa</i>	<i>Abuludomelita</i>	Melitidae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Acanthochiton crinita</i>	<i>Acanthochiton</i>	Acanthochitonidae	Chitonida	Polyplacophora	Mollusca	Herbivore (10)
<i>Acanthochiton fascicularis</i>	<i>Acanthochiton</i>	Acanthochitonidae	Chitonida	Polyplacophora	Mollusca	Herbivore (10)
<i>Acanthonotozomatidae</i> sp.	<i>Acanthonotozomatidae</i> gn.	Acanthonotozomatidae	Amphipoda	Malacostraca	Arthropoda	
<i>Acasta spongites</i>	<i>Acasta</i>	Archaeobalanidae	Sessilia	Maxillopoda	Arthropoda	Suspension feeder (2-3)
<i>Achaeus cranchii</i>	<i>Achaeus</i>	Inachidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Achaeus gracilis</i>	<i>Achaeus</i>	Inachidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Achelia echinata</i>	<i>Achelia</i>	Ammotheidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Achelia hispida</i>	<i>Achelia</i>	Ammotheidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Achelia</i> sp.	<i>Achelia</i>	Ammotheidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Achelia vulgaris</i>	<i>Achelia</i>	Ammotheidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Acrochaetium</i> sp.	<i>Acrochaetium</i>	Acrochaetiaceae	Rhodymeniophycidae	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Acrosorium ciliolatum</i>	<i>Acrosorium</i>	Delessertiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Acteonidae</i> sp.	<i>Acteonidae</i> gn.	Acteonidae	Heterobranchia	Gastropoda	Mollusca	Predator (22)
<i>Actinia equina</i>	<i>Actinia</i>	Actiniidae	Actiniaria	Anthozoa	Cnidaria	Predator (22)
<i>Actiniaria</i> sp.	<i>Actiniaria</i> gn.	Actiniaria fm.	Actiniaria	Anthozoa	Cnidaria	Predator (22)
<i>Actinothoe sphyrodeta</i>	<i>Actinothoe</i>	Sagartiidae	Actiniaria	Anthozoa	Cnidaria	Predator (22)
<i>Adalaria</i> sp.	<i>Adalaria</i>	Onchidorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Adamsia carcinopodus</i>	<i>Adamsia</i>	Hormathiidae	Actiniaria	Anthozoa	Cnidaria	Suspension feeder (2-3) predator (22)
<i>Aegires punctilucens</i>	<i>Aegires</i>	Aegiridae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Aegires</i> sp.	<i>Aegires</i>	Aegiridae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Aetea anguina</i>	<i>Aetea</i>	Aeteidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Aetea truncata</i>	<i>Aetea</i>	Aeteidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Aglaophenia kirchenpaueri</i>	<i>Aglaophenia</i>	Aglaopheniidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Aglaophenia octodonta</i>	<i>Aglaophenia</i>	Aglaopheniidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Aglaophenia parvula</i>	<i>Aglaophenia</i>	Aglaopheniidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Aglaophenia picardi</i>	<i>Aglaophenia</i>	Aglaopheniidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Aglaophenia pluma</i>	<i>Aglaophenia</i>	Aglaopheniidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Aglaophenia</i> sp.	<i>Aglaophenia</i>	Aglaopheniidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Aglaophenia tubiformis</i>	<i>Aglaophenia</i>	Aglaopheniidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Aglaophenia tubulifera</i>	<i>Aglaophenia</i>	Aglaopheniidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Aglaothamnion cordatum</i>	<i>Aglaothamnion</i>	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Aglaothamnion feldmanniae</i>	<i>Aglaothamnion</i>	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Aglaothamnion gallicum</i>	<i>Aglaothamnion</i>	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Aglaothamnion hookeri</i>	<i>Aglaothamnion</i>	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Aglaothamnion pseudobyssoides</i>	<i>Aglaothamnion</i>	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Aglaothamnion</i> sp.	<i>Aglaothamnion</i>	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Aglaothamnion tenuissimum</i>	<i>Aglaothamnion</i>	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)

Assessment of benthic hard substratum communities

<i>Aglaothamnion tripinnatum</i>	Aglaothamnion	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Alcyoniidae</i> sp.	Alcyoniidae gn.	Alcyoniidae	Alcyonacea	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Alcyonium</i> sp.	Alcyonium	Alcyoniidae	Alcyonacea	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Alpheus dentipes</i>	Alpheus	Alpheidae	Decapoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Alpheus glaber</i>	Alpheus	Alpheidae	Decapoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Alpheus</i> sp.	Alpheus	Alpheidae	Decapoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Alvania beanii</i>	Alvania	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Alvania cancellata</i>	Alvania	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Alvania cimex</i>	Alvania	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Alvania</i> sp.	Alvania	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Amakusanthera iberica</i>	Amakusanthera	Anthuridae	Isopoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Amathia lendigera</i>	Amathia	Vesiculariidae	Ctenostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Amathia pruvoti</i>	Amathia	Vesiculariidae	Ctenostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Amathia</i> sp.	Amathia	Vesiculariidae	Ctenostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Amblyosyllis formosa</i>	Amblyosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Amblyosyllis madeirensis</i>	Amblyosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Amblyosyllis</i> sp.	Amblyosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Ammothella longioculata</i>	Ammothella	Ammotheidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Ammothella longipes</i>	Ammothella	Ammotheidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Ampelisca rubella</i>	Ampelisca	Ampeliscidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Ampelisca</i> sp.	Ampelisca	Ampeliscidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Ampharete finmarchica</i>	Ampharete	Ampharetida	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Amphibalanus amphitrite</i>	Amphibalanus	Balanidae	Sessilia	Maxillopoda	Arthropoda	Suspension feeder (2-3)
<i>Amphiglena mediterranea</i>	Amphiglena	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Amphilochus neapolitanus</i>	Amphilochus	Amphilochidae	Amphipoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Amphilochus spencebatei</i>	Amphilochus	Amphilochidae	Amphipoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Amphipholis squamata</i>	Amphipholis	Amphiuridae	Ophiurida	Ophiuroidea	Echinodermata	Deposit feeder (4-5)
<i>Amphitrite cirrata</i>	Amphitrite	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Amphitrite johnstoni</i>	Amphitrite	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Amphitrite</i> sp.	Amphitrite	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Amphitritides</i> sp.	Amphitritides	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Ampithoe helleri</i>	Ampithoe	Ampithoidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Ampithoe ramondi</i>	Ampithoe	Ampithoidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Ampithoe</i> sp.	Ampithoe	Ampithoidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Ampithoidae</i> sp.	Ampithoidae gn.	Ampithoidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Anapagurus chiroacanthus</i>	Anapagurus	Paguridae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Anapagurus hyndmanni</i>	Anapagurus	Paguridae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Anapagurus laevis</i>	Anapagurus	Paguridae	Decapoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Anapagurus</i> sp.	Anapagurus	Paguridae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Anchialina agilis</i>	Anchialina	Mysidae	Mysida	Malacostraca	Arthropoda	Planktotroph (19)
<i>Anemonia sulcata</i>	Anemonia	Actiniidae	Actiniaria	Anthozoa	Cnidaria	Predator (22)
<i>Anemonia viridis</i>	Anemonia	Actiniidae	Actiniaria	Anthozoa	Cnidaria	Predator (22)
<i>Anomia ephippium</i>	Anomia	Anomiidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Anomia</i> sp.	Anomia	Anomiidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Anomiidae</i> sp.	Anomiidae gn.	Anomiidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)

<i>Anoplocopea crestata</i>	Anoplocopea	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	
<i>Anoplodactylus angulatus</i>	Anoplodactylus	Phoxichilidiidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Anoplodactylus petiolatus</i>	Anoplodactylus	Phoxichilidiidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Anoplodactylus pygmaeus</i>	Anoplodactylus	Phoxichilidiidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Anoplodactylus virescens</i>	Anoplodactylus	Phoxichilidiidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Anotrichium furcellatum</i>	Anotrichium	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antennella secundaria</i>	Antennella	Halopterididae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Antho</i> sp.	Antho	Microcionidae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Anthohebella parasitica</i>	Anthohebella	Hebellidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Anthozoa</i> sp.	Anthozoa gn.	Anthozoa fm.	Anthozoa or.	Anthozoa	Cnidaria	
<i>Anthura gracilis</i>	Anthura	Anthuridae	Isopoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Anthuridae</i> sp.	Anthuridae gn.	Anthuridae	Isopoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Antithamnion amphigeneum</i>	Antithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnion cruciatum</i>	Antithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnion densum</i>	Antithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnion pectinatum</i>	Antithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnion</i> sp.	Antithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnion villosum</i>	Antithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnionella boergesenii</i>	Antithamnionella	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnionella elegans</i>	Antithamnionella	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnionella multiglandulosa</i>	Antithamnionella	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnionella</i> sp.	Antithamnionella	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnionella spirographidis</i>	Antithamnionella	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Antithamnionella ternifolia</i>	Antithamnionella	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Anurida maritima</i>	Anurida	Neanuridae	Hexapoda	Collembola	Arthropoda	Scavenger (11)
<i>Aonides oxycephala</i>	Aonides	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Aonides paucibranchiata</i>	Aonides	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Aora gracilis</i>	Ahora	Aoridae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Aora</i> sp.	Ahora	Aoridae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Aora spinicornis</i>	Ahora	Aoridae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Aora typica</i>	Ahora	Aoridae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Aoridae</i> sp.	Aoridae gn.	Aoridae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Aphelochaeta marioni</i>	Aphelochaeta	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Aphelochaeta</i> sp.	Aphelochaeta	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Apherusa bispinosa</i>	Apherusa	Calliopiidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) deposit feeder (4-5)
<i>Apherusa jurinei</i>	Apherusa	Calliopiidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) deposit feeder (4-5)
<i>Apherusa ovalipes</i>	Apherusa	Calliopiidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) deposit feeder (4-5)
<i>Apherusa</i> sp.	Apherusa	Calliopiidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) deposit feeder (4-5)
<i>Apolidium punctum</i>	Apolidium	Polyclinidae	Aplousobranchia	Asciidiacea	Chordata	Suspension feeder (2-3)
<i>Apolidium</i> sp.	Apolidium	Polyclinidae	Aplousobranchia	Asciidiacea	Chordata	Suspension feeder (2-3)
<i>Aplysia punctata</i>	Aplysia	Aplysiidae	Anaspidea	Gastropoda	Mollusca	Herbivore (10)
<i>Aplysia</i> sp.	Aplysia	Aplysiidae	Anaspidea	Gastropoda	Mollusca	Herbivore (10)

Assessment of benthic hard substratum communities

<i>Aplysilla rosea</i>	Aplysilla	Darwinellidae	Dendroceratida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Aplysilla</i> sp.	Aplysilla	Darwinellidae	Dendroceratida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Aplysinidae</i> sp.	Aplysinidae gn.	Aplysinidae	Verongida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Apocorophium acutum</i>	Apocorophium	Corophiidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Apoglossum ruscifolium</i>	Apoglossum	Delesseriaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Apohyale prevostii</i>	Apohyale	Hyalidae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Apseudes talpa</i>	Apseudes	Apseudidae	Tanaidacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Arabella iricolor</i>	Arabella	Oenonidae	Eunicida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Arca noae</i>	Arca	Arcidae	Arcoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Arca tetrica</i>	Arca	Arcidae	Arcoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Arcidae</i> sp.	Arcidae gn.	Arcidae	Arcoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Arenicolides branchialis</i>	Arenicolides	Arenicolidae	Sedentaria	Polychaeta	Annelida	Detritivore (29)
<i>Ascidia mentula</i>	Ascidia	Asciidiidae	Phlebobranchia	Asciidiacea	Chordata	Suspension feeder (2-3)
<i>Ascidia</i> sp.	Ascidia	Asciidiidae	Phlebobranchia	Asciidiacea	Chordata	Suspension feeder (2-3)
<i>Ascidiae</i> sp.	Ascidiae gn.	Ascidiae fm.	Asciidae or.	Asciidae	Chordata	Suspension feeder (2-3)
<i>Asclerocheilus intermedius</i>	Asclerocheilus	Scalibregmatidae	Sedentaria	Polychaeta	Annelida	Detritivore (29)
<i>Ascophora</i> sp.	Ascophora gn.	Ascophora	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Asparagopsis armata</i>	Asparagopsis	Bonnemaisoniaceae	Bonnemaisoniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Aspidosiphon muelleri</i>	Aspidosiphon	Aspidosiphonidae	Aspidosiphonida	Phascolosomatidea	Sipuncula	Omnivore (8)
<i>Astacilla bocagei</i>	Astacilla	Arcturidae	Isopoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Astacilla monodi</i>	Astacilla	Arcturidae	Isopoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Astacilla</i> sp.	Astacilla	Arcturidae	Isopoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Astartidae</i> sp.	Astartidae gn.	Astartidae	Carditoida	Bivalvia	Mollusca	
<i>Asterina gibbosa</i>	Asterina	Asterinidae	Valvata	Asteroidea	Echinodermata	Omnivore (8)
<i>Astroidea</i> sp.	Astroidea gn.	Astroidea fm.	Astroidea or.	Astroidea	Echinodermata	Predator (22)
<i>Atelecyclus rotundatus</i>	Atelecyclus	Atelecyclidae	Decapoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Athanas nitescens</i>	Athanas	Alpheidae	Decapoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Axinella polypoides</i>	Axinella	Axinellidae	Halichondrida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Axinella verrucosa</i>	Axinella	Axinellidae	Halichondrida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Balanophyllia</i> sp.	Balanophyllia	Dendrophylliidae	Scleractinia	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Balanus crenatus</i>	Balanus	Balanidae	Sessilia	Maxilllopoda	Arthropoda	Suspension feeder (2-3)
<i>Balanus</i> sp.	Balanus	Balanidae	Sessilia	Maxilllopoda	Arthropoda	Suspension feeder (2-3)
<i>Balanus trigonus</i>	Balanus	Balanidae	Sessilia	Maxilllopoda	Arthropoda	Suspension feeder (2-3)
<i>Balssia gasti</i>	Balssia	Palaemonidae	Decapoda	Malacostraca	Arthropoda	Predator (22)
<i>Bangia atropurpurea</i>	Bangia	Bangiaceae	Bangiales	Bangiophyceae	Rhodophyta	Photoautotroph (1)
<i>Barentsia discreta</i>	Barentsia	Barentsiidae	Coloniales or.	Coloniales	Entoprocta	Suspension feeder (2-3)
<i>Barentsia gracilis</i>	Barentsia	Barentsiidae	Coloniales or.	Coloniales	Entoprocta	Suspension feeder (2-3)
<i>Barleeia unifasciata</i>	Barleeia	Barleeiidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Beania magellanica</i>	Beania	Beaniidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Berthella plumula</i>	Berthella	Pleurobranchidae	Pleurobranchomorpha	Gastropoda	Mollusca	Predator (22)
<i>Bicellaria biciliata</i>	Bicellaria	Bugulidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Bicellariella ciliata</i>	Bicellariella	Bugulidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Bifurcaria bifurcata</i>	Bifurcaria	Sargassaceae	Fucales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Bispira volutacornis</i>	Bispira	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Bittium latreillii</i>	Bittium	Cerithiidae	Caenogastropoda	Gastropoda	Mollusca	Herbivore (10)

<i>Bittium reticulatum</i>	Bittium	Cerithiidae	Caenogastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Bivalvia</i> sp.	Bivalvia gn.	Bivalvia fm.	Bivalvia or.	Bivalvia	Mollusca	
<i>Blidingia minima</i>	Blidingia	Kornmanniaceae	Ulvales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Boccardia polybranchia</i>	Boccardia	Spionidae	Spionida	Polychaeta	Annelida	Suspension feeder (2-3) deposit feeder (4-5)
<i>Boccardia proboscidea</i>	Boccardia	Spionidae	Spionida	Polychaeta	Annelida	Suspension feeder (2-3) deposit feeder (4-5)
<i>Boccardia</i> sp.	Boccardia	Spionidae	Spionida	Polychaeta	Annelida	Suspension feeder (2-3) deposit feeder (4-5)
<i>Boergesenella fruticulosa</i>	Boergesenella	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Boergesenella thuyoides</i>	Boergesenella	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Bonnemaisonia asparagooides</i>	Bonnemaisonia	Bonnemaisoniaceae	Bonnemaisoniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Bonnemaisonia hamifera</i>	Bonnemaisonia	Bonnemaisoniaceae	Bonnemaisoniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Bornetia secundiflora</i>	Bornetia	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Bougainvillia</i>	Bougainvillia	Bougainvilliidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Bougainvillia muscus</i>	Bougainvillia	Bougainvilliidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Bougainvilliidae</i> sp.	Bougainvilliidae or.	Bougainvilliidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Bowerbankia gracilis</i>	Bowerbankia	Vesiculariidae	Ctenostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Brachiopoda</i> sp.	Brachiopoda gn.	Brachiopoda fm.	Brachiopoda or.	Brachiopoda cl.	Brachiopoda	
<i>Brachyura</i> sp.	Brachyura gn.	Brachyura	Decapoda	Malacostraca	Arthropoda	
<i>Branchiomaldane</i> sp.	Branchiomaldane	Arenicolidae	Sedentaria	Polychaeta	Annelida	Detritivore (29)
<i>Branchiomaldane vincenti</i>	Branchiomaldane	Arenicolidae	Sedentaria	Polychaeta	Annelida	Detritivore (29)
<i>Branchiomma bombyx</i>	Branchiomma	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Branchiomma</i> sp.	Branchiomma	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Branchiosyllis</i> sp.	Branchiosyllis	Syllidae	Phyllocoidea	Polychaeta	Annelida	Predator (22)
<i>Brania arminii</i>	Brania	Syllidae	Phyllocoidea	Polychaeta	Annelida	Predator (22)
<i>Brania pusilla</i>	Brania	Syllidae	Phyllocoidea	Polychaeta	Annelida	Predator (22)
<i>Brania</i> sp.	Brania	Syllidae	Phyllocoidea	Polychaeta	Annelida	Predator (22)
<i>Brongniartella byssoides</i>	Brongniartella	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Bryopsis cupressina</i>	Bryopsis	Bryopsidaceae	Bryopsidales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Bryopsis hypnoidea</i>	Bryopsis	Bryopsidaceae	Bryopsidales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Bryopsis plumosa</i>	Bryopsis	Bryopsidaceae	Bryopsidales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Bryopsis</i> sp.	Bryopsis	Bryopsidaceae	Bryopsidales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Bugula neritina</i>	Bugula	Bugulidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Bugula</i> sp.	Bugula	Bugulidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Bunodactis rubripunctata</i>	Bunodactis	Actiniidae	Actiniaria	Anthozoa	Cnidaria	Predator (22)
<i>Buskia nitens</i>	Buskia	Buskiidae	Ctenostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Caberea boryi</i>	Caberea	Candidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Cadlina laevis</i>	Cadlina	Cadlinidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Cadlina</i> sp.	Cadlina	Cadlinidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Cadlinidae</i> sp.	Cadlinidae gn.	Cadlinidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Calliblepharis ciliata</i>	Calliblepharis	Cystocloniaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Calliblepharis jubata</i>	Calliblepharis	Cystocloniaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Calliostoma</i> sp.	Calliostoma	Calliostomatidae	Vetigastropoda	Gastropoda	Mollusca	Predator (22)
<i>Calliostoma zizyphinum</i>	Calliostoma	Calliostomatidae	Vetigastropoda	Gastropoda	Mollusca	Predator (22)
<i>Callipallene emaciata</i>	Callipallene	Callipallenidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)

Assessment of benthic hard substratum communities

<i>Callithamniella tingitana</i>	Callithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Callithamnion corymbosum</i>	Callithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Callithamnion granulatum</i>	Callithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Callithamnion</i> sp.	Callithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Callithamnion tetragonum</i>	Callithamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Callochiton septemvalvis</i>	Callochiton	Callochitonidae	Chitonida	Polyplacophora	Mollusca	Herbivore (10)
<i>Callophyllis laciniata</i>	Callophyllis	Kallymeniaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Calothrix crustacea</i>	Calothrix	Rivulariaceae	Nostocales	Cyanophyceae	Cyanobacteria	
<i>Campanularia hincksii</i>	Campanularia	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Campecopea hirsuta</i>	Campecopea	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Campecopea lusitanica</i>	Campecopea	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Capitella capitata</i>	Capitella	Capitellidae	Sedentaria	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Capitellidae</i> sp.	Capitellidae gn.	Capitellidae	Sedentaria	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Caprella acanthifera</i>	Caprella	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Caprella danilevskii</i>	Caprella	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Caprella equilibra</i>	Caprella	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Caprella fretensis</i>	Caprella	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Caprella liparotensis</i>	Caprella	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Caprella penantis</i>	Caprella	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Caprella</i> sp.	Caprella	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Capulus ungaricus</i>	Capulus	Capulidae	Littorinimorpha	Gastropoda	Mollusca	Suspension feeder (2-3)
<i>Carpomitra costata</i>	Carpomitra	Sporochnaceae	Sporochnales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Caryophyllia inornata</i>	Caryophyllia	Caryophylliidae	Scleractinia	Anthozoa	Cnidaria	Suspension feeder (2-3) predator (22)
<i>Caryophyllia smithii</i>	Caryophyllia	Caryophylliidae	Scleractinia	Anthozoa	Cnidaria	Suspension feeder (2-3) predator (22)
<i>Caulacanthus ustulatus</i>	Caulacanthus	Caulacanthaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Cauilleriella alata</i>	Cauilleriella	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Cauilleriella bioculata</i>	Cauilleriella	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Cauilleriella</i> sp.	Cauilleriella	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Cellaria salicornioides</i>	Cellaria	Cellariidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Cellepora pumicosa</i>	Cellepora	Celleporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Cellepora</i> sp.	Cellepora	Celleporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Celleporina</i> sp.	Celleporina	Celleporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Centroceras clavulatum</i>	Centroceras	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Cephalaspidea</i> sp.	Cephalaspidea gn.	Cephalaspidea fm.	Cephalaspidea	Gastropoda	Mollusca	Predator (22)
<i>Ceramiales</i> sp.	Ceramiales gn.	Ceramiales fm.	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium botryocarpum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium ciliatum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium cimbricum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium diaphanum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium echinonotum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium pallidum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium secundatum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium shuttleworthianum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium</i> sp.	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)

<i>Ceramium tenerrimum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceramium virgatum</i>	Ceramium	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ceratonereis costae</i>	Ceratonereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Ceratonereis hircinicola</i>	Ceratonereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Ceratonereis</i> sp.	Ceratonereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Cerithiopsisidae</i> sp.	Cerithiopsidae fm.	Cerithiopsidae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Cerithiopsis minima</i>	Cerithiopsis	Cerithiopsidae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Cerithiopsis</i> sp.	Cerithiopsis	Cerithiopsidae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Cerithiopsis tubercularis</i>	Cerithiopsis	Cerithiopsidae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Cerithium</i> sp.	Cerithium	Cerithiidae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Cestopagurus timidus</i>	Cestopagurus	Paguridae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Chaetomorpha linum</i>	Chaetomorpha	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Chaetopteridae</i> sp.	Chaetopteridae gn.	Chaetopteridae	Sedentaria	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Chaetopterus plumosa</i>	Chaetopterus	Sphacelariaceae	Sphacelariales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Chaetopterus variopedatus</i>	Chaetopterus	Chaetopteridae	Sedentaria	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Champia parvula</i>	Champia	Champiaceae	Rhodymeniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Chartella papyracea</i>	Chartella	Flustridae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Chartella tenella</i>	Chartella	Flustridae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Chauvetia brunnea</i>	Chauvetia	Buccinidae	Neogastropoda	Gastropoda	Mollusca	Detritivore (29)
<i>Cheilostomatida</i> sp.	Cheilostomatida gn.	Cheilostomatida fm.	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Chlamys</i> sp.	Chlamys	Pectinidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Chondracanthus acicularis</i>	Chondracanthus	Gigartinaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Chondracanthus teedei</i>	Chondracanthus	Gigartinaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Chondria coerulescens</i>	Chondria	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Chondria</i> sp.	Chondria	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Chondrilla nucula</i>	Chondrilla	Chondrillidae	Chondrosida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Chondrillidae</i> sp.	Chondrillidae gn.	Chondrillidae	Chondrosida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Chondrosia reniformis</i>	Chondrosia	Chondrillidae	Chondrosida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Chone collaris</i>	Chone	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Chone</i> sp.	Chone	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Chorizopora brongniartii</i>	Chorizopora	Chorizoporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Chrysallida interstincta</i>	Crysallida	Pyramidellidae	Heterobranchia	Gastropoda	Mollusca	Predator (22)
<i>Chrysallida terebellum</i>	Crysallida	Pyramidellidae	Heterobranchia	Gastropoda	Mollusca	Predator (22)
<i>Cthamalus</i> sp.	Cthamalus	Cthamalidae	Sessilia	Maxillopoda	Arthropoda	Suspension feeder (2-3)
<i>Cthamalus stellatus</i>	Cthamalus	Cthamalidae	Sessilia	Maxillopoda	Arthropoda	Suspension feeder (2-3)
<i>Chylocladia verticillata</i>	Chylocladia	Champiaceae	Rhodymeniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ciona intestinalis</i>	Ciona	Cionidae	Phlebobranchia	Asciidiacea	Chordata	Suspension feeder (2-3)
<i>Cirolana cranchi</i>	Cirolana	Cirolanidae	Isopoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Cirolana</i> sp.	Cirolana	Cirolanidae	Isopoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Cirratulidae</i> sp.	Cirratulidae gn.	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Cirratulus cirratus</i>	Cirratulus	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Cirratulus</i> sp.	Cirratulus	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Cirriformia chrysoderma</i>	Cirriformia	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)

Assessment of benthic hard substratum communities

<i>Cirriformia tentaculata</i>	Cirriformia	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Cladophora albida</i>	Cladophora	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Cladophora dalmatica</i>	Cladophora	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Cladophora hutchinsiae</i>	Cladophora	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Cladophora laetevirens</i>	Cladophora	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Cladophora lehmanniana</i>	Cladophora	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Cladophora pellucida</i>	Cladophora	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Cladophora socialis</i>	Cladophora	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Cladophora</i> sp.	Cladophora	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Cladostephus spongiosus</i>	Cladostephus	Cladostephaceae	Sphaelariales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Clathria ascendens</i>	Clathria	Microcionidae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Clathria</i> sp.	Clathria	Microcionidae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Clathrina coriacea</i>	Clathrina	Clathrinidae	Clathrinida	Calcarea	Porifera	Suspension feeder (2-3)
<i>Clavelina lepadiformis</i>	Clavelina	Clavelinidae	Aplousobranchia	Asciidae	Chordata	Suspension feeder (2-3)
<i>Clavelina</i> sp.	Clavelina	Clavelinidae	Aplousobranchia	Asciidae	Chordata	Suspension feeder (2-3)
<i>Cliona celata</i>	Cliona	Clionaidae	Hadromerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Clytia gracilis</i>	Clytia	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Clytia hemisphaerica</i>	Clytia	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Clytia linearis</i>	Clytia	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Clytia</i> sp.	Clytia	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Cochlodesma praetenua</i>	Cochlodesma	Periplomatidae	Anomalodesmata	Bivalvia	Mollusca	
<i>Codium adhaerens</i>	Codium	Codiaceae	Bryopsidales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Codium decorticatum</i>	Codium	Codiaceae	Bryopsidales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Codium tomentosum</i>	Codium	Codiaceae	Bryopsidales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Codium vermiculata</i>	Codium	Codiaceae	Bryopsidales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Colomastix pusilla</i>	Colomastix	Colomastigidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Colpomenia peregrina</i>	Colpomenia	Scytoniphonaceae	Scytoniphonales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Compsothamnion decompositum</i>	Compsothamnion	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Compsothamnion gracillimum</i>	Compsothamnion	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Compsothamnion</i> sp.	Compsothamnion	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Compsothamnion thuyoides</i>	Compsothamnion	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Corallina officinalis</i>	Ellisolandia	Corallinaceae	Corallinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Corophium</i> sp.	Corophium	Corophiidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Corynactis viridis</i>	Corynactis	Corallimorphidae	Corallimorpharia	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Coryne eximia</i>	Coryne	Corynidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Coryne muscoidea</i>	Coryne	Corynidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Coryne pusilla</i>	Coryne	Corynidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Coryne</i> sp.	Coryne	Corynidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Cradoscrupocellaria reptans</i>	Cradoscrupocellaria	Candidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Crassostrea gigas</i>	Crassostrea	Ostreidae	Ostreoidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Cribrilina</i> sp.	Cribrilina	Cribrilinidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Crimora papillata</i>	Crimora	Polyceridae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Crisia aculeata</i>	Crisia	Crisiidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Crisia denticulata</i>	Crisia	Crisiidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)

<i>Crisia eburnea</i>	Crisia	Crisiidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Crisia ramosa</i>	Crisia	Crisiidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Crisia sp.</i>	Crisia	Crisiidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Crisilla semistriata</i>	Crisilla	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Crouania attenuata</i>	Crouania	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Crouania sp.</i>	Crouania	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Cruoria pellita</i>	Cruoria	Cruoriaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Cruoria sp.</i>	Cruoria	Cruoriaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Cryptopleura ramosa</i>	Cryptopleura	Delessertiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Cryptosula pallasiiana</i>	Cryptosula	Cryptosulidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Ctenodrilus serratus</i>	Ctenodrilus	Ctenodrilidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Cucumaria sp.</i>	Cucumaria	Cucumariidae	Dendrochirotida	Holothuroidea	Echinodermata	Deposit feeder (4-5)
<i>Cumella pygmaea</i>	Cumella	Nannastacidae	Cumacea	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Cuthona sp.</i>	Cuthona	Tergipedidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Cutleria multifida</i>	Cutleria	Cutleriaceae	Cutleriales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Cyanobacteria sp.</i>	Cyanobacteria gn.	Cyanobacteria fm.	Cyanobacteria or.	Cyanobacteria cl.	Cyanobacteria	
<i>Cyanophyceae sp.</i>	Cyanophyceae gn.	Cyanophyceae fm.	Cyanophyceae or.	Cyanophyceae	Cyanobacteria	
<i>Cyclostomatida sp.</i>	Cyclostomatida gn.	Cyclostomatida fm.	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Cymodoce robusta</i>	Cymodoce	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Cymodoce sp.</i>	Cymodoce	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Cymodoce truncata</i>	Cymodoce	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Cystoseira baccata</i>	Cystoseira	Sargassaceae	Fucales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Dasya hutchinsiae</i>	Dasya	Dasyaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Dasya ocellata</i>	Dasya	Dasyaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Dasya sp.</i>	Dasya	Dasyaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Decapoda (larva)</i>	Decapoda gn.	Decapoda fm.	Decapoda	Malacostraca	Arthropoda	
<i>Decapoda sp.</i>	Decapoda gn.	Decapoda fm.	Decapoda	Malacostraca	Arthropoda	
<i>Demospongiae sp.</i>	Demospongiae gn.	Demospongiae or.	Demospongiae fm.	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Dendrodorididae sp.</i>	Dendrodorididae gn.	Dendrodorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Derbesia tenuissima</i>	Derbesia	Derbesiaceae	Bryopsidales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Dercitus sp.</i>	Dercitus	Ancorinidae	Astrophorida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Desmacellidae sp.</i>	Desmacellidae gn.	Desmacellidae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Desmacidon sp.</i>	Desmacidon	Desmacididae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Desmarestia ligulata</i>	Desmarestia	Desmarestiaceae	Desmarestiales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Dexamine spiniventris</i>	Dexamine	Dexaminiidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Dexamine spinosa</i>	Dexamine	Dexaminiidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Diastylis bradyi</i>	Diastylis	Diastylidae	Cumacea	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Dictyopteris polypodioides</i>	Dictyopteris	Dictyotaceae	Dictyotales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Dictyota dichotoma</i>	Dictyota	Dictyotaceae	Dictyotales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Dictyota dichotoma intricata</i>	Dictyota	Dictyotaceae	Dictyotales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Didemnum sp.</i>	Didemnum	Didemnidiae	Aplousobranchia	Asciidiacea	Chordata	Suspension feeder (2-3)
<i>Diodora graeca</i>	Diodora	Fissurellidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Diodora sp.</i>	Diodora	Fissurellidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Diogenidae sp.</i>	Diogenidae gn.	Diogenidae	Decapoda	Malacostraca	Arthropoda	

Assessment of benthic hard substratum communities

<i>Diphasia margareta</i>	Diphasia	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Diphasia</i> sp.	Diphasia	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Dipolydora armata</i>	Dipolydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Dipolydora caulleryi</i>	Dipolydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Dipolydora coeca</i>	Dipolydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Dipolydora flava</i>	Dipolydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Dipolydora giardi</i>	Dipolydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Dipolydora quadrilobata</i>	Dipolydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Diptera (larva)</i>	Diptera gn.	Diptera fm.	Diptera	Insecta	Arthropoda	
<i>Diptera</i> sp.	Diptera gn.	Diptera fm.	Diptera	Insecta	Arthropoda	
<i>Discodorididae</i> sp.	Discodorididae gn.	Discodorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Dodecaceria concharum</i>	Dodecaceria	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Dodecaceria</i> sp.	Dodecaceria	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Doridoidea</i> sp.	Doridoidea gn.	Doridoidea fm.	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Doris</i> sp.	Doris	Dorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Doris sticta</i>	Doris	Dorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Doris verrucosa</i>	Doris	Dorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Dorvillea rubrovittata</i>	Dorvillea	Dorvilleidae	Eunicida	Polychaeta	Annelida	Predator (22)
<i>Doto</i> sp.	Doto	Dotidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Drilonereis filum</i>	Drilonereis	Oenonidae	Eunicida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Dynamena pumila</i>	Dynamena	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Dynamena</i> sp.	Dynamena	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Dynamene bidentata</i>	Dynamene	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Dynamene magnitorata</i>	Dynamene	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Dynamene</i> sp.	Dynamene	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Dysidea fragilis</i>	Dysidea	Dysideidae	Dictyoceratida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Ebalia</i> sp.	Ebalia	Leucosiidae	Decapoda	Malacostraca	Arthropoda	Predator (22)
<i>Ebalia tuberosa</i>	Ebalia	Leucosiidae	Decapoda	Malacostraca	Arthropoda	Predator (22)
<i>Echinaster sepositus</i>	Echinaster	Echinasteridae	Spinulosida	Astroidea	Echinodermata	Predator (22)
<i>Echinoidea</i> sp.	Echinoidea gn.	Echinoidea fm.	Echinoidea or.	Echinoidea	Echinodermata	
<i>Ectopleura larynx</i>	Ectopleura	Tubulariidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Elasmopus rapax</i>	Elasmopus	Maeridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Electra pilosa</i>	Electra	Electridae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Ellisolandia elongata</i>	Ellisolandia	Corallinaceae	Corallinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Elysia viridis</i>	Elysia	Placobranchidae	Sacoglossa	Gastropoda	Mollusca	Herbivore (10)
<i>Emarginula fissura</i>	Emarginula	Fissurellidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Enchytraeidae</i> sp.	Enchytraeidae gn.	Enchytraeidae	Enchytraeida	Clitellata	Annelida	
<i>Endeis charybdaea</i>	Endeis	Endeidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Endeis spinosa</i>	Endeis	Endeidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Entoprocta</i>	Pedicellina	Pedicellinidae	Coloniales or.	Coloniales	Entoprocta	Suspension feeder (2-3)
<i>Epitonium clathrus</i>	Epitonium	Ephitonidae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Epizoanthus couchii</i>	Epizoanthus	Epizoanthidae	Zoantharia	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Epizoanthus</i> sp.	Epizoanthus	Epizoanthidae	Zoantharia	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Ericthonius difformis</i>	Ericthonius	Ischyroceridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)

<i>Ericthonius punctatus</i>	Ericthonius	Ischyroceridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Ericthonius</i> sp.	Ericthonius	Ischyroceridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Erycina</i>	Erycina	Lasaeidae	Veneroida	Bivalvia	Mollusca	
<i>Erythroglossum laciniatum</i>	Erythroglossum	Delesseriaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Eteone barbata</i>	Eteone	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eteone flava</i>	Eteone	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eteone longa</i>	Eteone	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eualus cranchii</i>	Thoralus	Hippolytidae	Decapoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Eualus occultus</i>	Eualus	Hippolytidae	Decapoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Eubranchidae</i> sp.	Eubranchidae gn.	Eubranchidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Eubranchus</i> sp.	Eubranchus	Eubranchidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Euchone</i> sp.	Euchone	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Eudendrium capillare</i>	Eudendrium	Eudendriidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Eudendrium ramosum</i>	Eudendrium	Eudendriidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Eudendrium</i> sp.	Eudendrium	Eudendriidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Eulalia aurea</i>	Eulalia	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eulalia bilineata</i>	Eulalia	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eulalia expusilla</i>	Eulalia	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eulalia mustela</i>	Eulalia	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eulalia ornata</i>	Eulalia	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eulalia</i> sp.	Eulalia	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eulalia tripunctata</i>	Eulalia	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eulalia venusta</i>	Eulalia	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eulalia viridis</i>	Eulalia	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eulimidae</i> sp.	Eulimidae gn.	Eulimidae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Eumida minuta</i>	Eumida	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eumida sanguinea</i>	Eumida	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eumida</i> sp.	Eumida	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eunice aphroditois</i>	Eunice	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Eunice</i> sp.	Eunice	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Eunice vittata</i>	Eunice	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Eunicella gazella</i>	Eunicella	Gorgoniidae	Alcyonacea	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Eunicella verrucosa</i>	Eunicella	Gorgoniidae	Alcyonacea	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Eunoe nodosa</i>	Eunoe	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Euphrosine foliosa</i>	Euphrosine	Euphrasinidae	Amphinomida	Polychaeta	Annelida	Predator (22)
<i>Eupolymnia nebulosa</i>	Eupolymnia	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Eurynome aspera</i>	Eurynome	Majidae	Decapoda	Malacostraca	Arthropoda	Predator (22)
<i>Eurynome spinosa</i>	Eurynome	Majidae	Decapoda	Malacostraca	Arthropoda	Predator (22)
<i>Eurysyllis tuberculata</i>	Eurysyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Eusiroides dellavallei</i>	Eusiroides	Pontogeneiidae	Amphipoda	Malacostraca	Arthropoda	Predator (22)
<i>Euspira nitida</i>	Euspira	Naticidae	Littorinimorpha	Gastropoda	Mollusca	Predator (22)
<i>Eusyllis assimilis</i>	Eusyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)

Assessment of benthic hard substratum communities

<i>Eusyllis lamelligera</i>	Eusyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Exogone naidina</i>	Exogone	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Exogone</i> sp.	Exogone	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Fabricia sabella</i>	Fabricia	Fabriciidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Facelina</i> sp.	Facelina	Facelinidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Farrella repens</i>	Farrella	Farrellidae	Ctenostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Felimare cantabrica</i>	Felimare	Chromodorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Felimare tricolor</i>	Felimare	Chromodorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Felimida purpurea</i>	Felimida	Chromodorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Filicrisia geniculata</i>	Filicrisia	Criiidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Filograna implexa</i>	Filograna	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Fissurellidae</i> sp.	Fisurellidae gn.	Fissurellidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Flabellina</i>	Flabellina	Flabellinidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Galathea bolivari</i>	Galathea	Galatheidae	Decapoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Galathea intermedia</i>	Galathea	Galatheidae	Decapoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Galathea</i> sp.	Galathea	Galatheidae	Decapoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Galathea squamifera</i>	Galathea	Galatheidae	Decapoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Galathea strigosa</i>	Galathea	Galatheidae	Decapoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Galeomma turtoni</i>	Galeomma	Galeommataidae	Veneroida	Bivalvia	Mollusca	
<i>Gammarella fucicola</i>	Gammarella	Nuuanuidae	Amphipoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Gammaridae</i> sp.	Gammaridae gn.	Gammaridae	Amphipoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Gammaridea</i> sp.	Gammaridea gn.	Gammaridea fm.	Amphipoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Gammaropsis maculata</i>	Gammaropsis	Photidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) deposit feeder (4-5)
<i>Gammaropsis</i> sp.	Gammaropsis	Photidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) deposit feeder (4-5)
<i>Gastroclonium ovatum</i>	Gastroclonium	Champiaceae	Rhodymeniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gastropoda</i> sp.	Gastropoda gn.	Gastropoda fm.	Gastropoda or.	Gastropoda	Mollusca	
<i>Gastrosaccus</i> sp.	Gastrosaccus	Mysidae	Mysida	Malacostraca	Arthropoda	Planktotroph (19)
<i>Gayliella flaccida</i>	Gayliella	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gayliella mazoyeriae</i>	Gayliella	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gelidium attenuatum</i>	Gelidium	Gelidiaceae	Gelidiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gelidium corneum</i>	Gelidium	Gelidiaceae	Gelidiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gelidium latifolium</i>	Gelidium	Gelidiaceae	Gelidiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gelidium pusillum</i>	Gelidium	Gelidiaceae	Gelidiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gelidium spinosum</i>	Gelidium	Gelidiaceae	Gelidiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Genetyllis nana</i>	Genetyllis	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Genocidaris maculata</i>	Genocidaris	Trigonocidaridae	Camarodonta	Echinoidea	Echinodermata	Grazer (28)
<i>Geodia cydonium</i>	Geodia	Geodiidae	Astrophorida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Geodiidae</i> sp.	Geodiidae gn.	Geodiidae	Astrophorida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Gibbula</i> sp.	Gibbula	Trochidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Gibbula umbilicalis</i>	Gibbula	Trochidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Glycera lapidum</i>	Glycera	Glyceridae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Glycera tessellata</i>	Glycera	Glyceridae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Gnathia dentata</i>	Gnathia	Gnathiidae	Isopoda	Malacostraca	Arthropoda	Predator (22)
<i>Gnathia maxillaris</i>	Gnathia	Gnathiidae	Isopoda	Malacostraca	Arthropoda	Predator (22)

<i>Gnathia</i> sp.	<i>Gnathia</i>	Gnathiidae	Isopoda	Malacostraca	Arthropoda	Predator (22)
<i>Gnathiidae</i> sp.	<i>Gnathiidae</i> gn.	Gnathiidae	Isopoda	Malacostraca	Arthropoda	Predator (22)
<i>Goniada emerita</i>	<i>Goniada</i>	Goniadidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Goniodorididae</i> sp.	<i>Goniodorididae</i> gn.	Goniodorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Gonothyraea loveni</i>	<i>Gonothyraea</i>	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Grantia compressa</i>	<i>Grantia</i>	Gratiidae	Leucosolenida	Calcarea	Porifera	Suspension feeder (2-3)
<i>Grateloupia filicina</i>	<i>Grateloupia</i>	Halymeniaceae	Halymeniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gregariella barbata</i>	<i>Gregariella</i>	Mytilidae	Mytiloida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Gregariella petagnae</i>	<i>Gregariella</i>	Mytilidae	Mytiloida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Gregariella semigranata</i>	<i>Gregariella</i>	Mytilidae	Mytiloida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Gregariella</i> sp.	<i>Gregariella</i>	Mytilidae	Mytiloida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Gymnangium montagui</i>	<i>Gymnangium</i>	Aglaopheniidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Gymnogongrus crenulatus</i>	<i>Gymnogongrus</i>	Phyllophoraceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gymnogongrus patens</i>	<i>Gymnogongrus</i>	Phyllophoraceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Gymnothamnion elegans</i>	<i>Gymnothamnion</i>	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Haedropleura septangularis</i>	<i>Haedropleura</i>	Horaiclavidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Halacaridae</i> sp.	<i>Halacaridae</i> gn.	Halacaridae	Chelicerata	Arachnida	Arthropoda	Predator (22)
<i>Halarachnion</i> sp.	<i>Halarachnion</i>	Furcellariaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Halecium lankesterii</i>	<i>Halecium</i>	Haleciidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Halecium mediterraneum</i>	<i>Halecium</i>	Haleciidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Halecium pusillum</i>	<i>Halecium</i>	Haleciidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Halecium</i> sp.	<i>Halecium</i>	Haleciidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Halichondria panicea</i>	<i>Halichondria</i>	Halichondriidae	Halichondrida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Haliclona simulans</i>	<i>Haliclona</i>	Chalinidae	Haplosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Haliclona</i> sp.	<i>Haliclona</i>	Chalinidae	Haplosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Haliclystus salpinx</i>	<i>Haliclystus</i>	Lucernariidae	Stauromedusae	Stauromzoa	Cnidaria	Predator (22)
<i>Haliotis tuberculata</i>	<i>Haliotis</i>	Haliotidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Halopithys incurva</i>	<i>Halopithys</i>	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Halopterididae</i> sp.	<i>Halopterididae</i> gn.	Halopterididae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Halopteris filicina</i>	<i>Halopteris</i>	Stylocaulaceae	Sphaelariales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Halopteris</i> sp.	<i>Halopteris</i> (stylocaulon)	Halopterididae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Halurus equisetifolius</i>	<i>Halurus</i>	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Halurus flosculosus</i>	<i>Halurus</i>	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Haminoea</i> sp.	<i>Haminoea</i>	Haminoeidae	Cephalaspidea	Gastropoda	Mollusca	Herbivore (10)
<i>Haplostylus lobatus</i>	<i>Haplostylus</i>	Mysidae	Mysida	Malacostraca	Arthropoda	Planktotroph (19)
<i>Haplostylus normani</i>	<i>Haplostylus</i>	Mysidae	Mysida	Malacostraca	Arthropoda	Planktotroph (19)
<i>Haplosyllis</i> sp.	<i>Haplosyllis</i>	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Haplosyllis spongicola</i>	<i>Haplosyllis</i>	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Harmothoe areolata</i>	<i>Harmothoe</i>	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Harmothoe extenuata</i>	<i>Harmothoe</i>	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Harmothoe imbricata</i>	<i>Harmothoe</i>	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Harmothoe impar</i>	<i>Harmothoe</i>	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Harmothoe reticulata</i>	<i>Harmothoe</i>	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Harmothoe</i> sp.	<i>Harmothoe</i>	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)

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<i>Harmothoe spinifera</i>	Harmothoe	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Hebella scandens</i>	Hebella	Hebellidae	Leptotheccata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Hemilepton nitidum</i>	Hemilepton	Lasaeidae	Veneroida	Bivalvia	Mollusca	
<i>Herposiphonia secunda</i>	Herposiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Herposiphonia secunda</i> <i>tenella</i>	Herposiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Herposiphonia</i> sp.	Herposiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Hesione splendida</i>	Hesione	Hesionidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Heteranomia squamula</i>	Heteranomia	Anomiidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Heterosiphonia plumosa</i>	Heterosiphonia	Dasyaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Hexapleomera robusta</i>	Hexapleomera	Tanaidae	Tanaidacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Hexapleomera</i> sp.	Hexapleomera	Tanaidae	Tanaidacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Hiatella arctica</i>	Hiatella	Hiatellidae	Euheterodontida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Hiatellidae</i> sp.	Hiatellidae gn.	Hiatellidae	Euheterodontida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Hildenbrandia rubra</i>	Hildenbrandia	Hildenbrandiaceae	Hildenbrandiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Hildenbrandia</i> sp.	Hildenbrandia	Hildenbrandiaceae	Hildenbrandiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Hippolyte garciarasoi</i>	Hippolyte	Hippolytidae	Decapoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Hippolyte leptocerus</i>	Hippolyte	Hippolytidae	Decapoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Hippolyte</i> sp.	Hippolyte	Hippolytidae	Decapoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Hippolyte varians</i>	Hippolyte	Hippolytidae	Decapoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Hippolytidae</i> sp.	Hippolytidae gn.	Hippolytidae	Decapoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Holothuria</i> sp.	Holothuria	Holothuriidae	Aspidochirotida	Holothuroidea	Echinodermata	Deposit feeder (4-5)
<i>Holothuria tubulosa</i>	Holothuria	Holothuriidae	Aspidochirotida	Holothuroidea	Echinodermata	Deposit feeder (4-5)
<i>Hyale perieri</i>	Hyale	Hyalidae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Hyale pontica</i>	Hyale	Hyalidae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Hyale schmidti</i>	Hyale	Hyalidae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Hyale</i> sp.	Hyale	Hyalidae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Hyale stebbingi</i>	Hyale	Hyalidae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Hydroides</i> sp.	Hydroides	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Hymedesmia</i> sp.	Hymedesmia	Hymedesmiidae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Hymeniacidon perlevis</i>	Hymeniacidon	Halichondriidae	Halichondrida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Hymeniacidon sanguinea</i>	Hymeniacidon	Halichondriidae	Halichondrida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Hypoglossum hypoglossoides</i>	Hypoglossum	Delesseriaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Hypselodoris</i> sp.	Hypselodoris	Chromodorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Hypsicomus phaeotaenia</i>	Hypsicomus	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Idmidronea atlantica</i>	Idmidronea	Tubuliporidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Idotea neglecta</i>	Idotea	Idoteidae	Isopoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Idotea pelagica</i>	Idotea	Idoteidae	Isopoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Idotea</i> sp.	Idotea	Idoteidae	Isopoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Inachus</i> sp.	Inachus	Inachidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Insecta</i> sp.	Insecta gn.	Insecta fm.	Insecta or.	Insecta	Arthropoda	
<i>Iphimedia minuta</i>	Iphimedia	Iphimediidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Iphimedia obesa</i>	Iphimedia	Iphimediidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)

<i>Iphimedia</i> sp.	Iphimedia	Iphimediidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Iphinoe</i> sp.	Iphinoe	Bodotriidae	Cumacea	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Iphinoe trispinosa</i>	Iphinoe	Bodotriidae	Cumacea	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Irus irus</i>	Irus	Veneridae	Veneroida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Ischyrocerus anguipes</i>	Ischyrocerus	Ischyroceridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Ischyromene lacazei</i>	Ischyromene	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	
<i>Jaera albifrons</i>	Jaera	Janiridae	Isopoda	Malacostraca	Arthropoda	Grazer (28)
<i>Jaera</i> sp.	Jaera	Janiridae	Isopoda	Malacostraca	Arthropoda	Grazer (28)
<i>Jaeropsis brevicornis</i>	Jaeropsis	Joeropsididae	Isopoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Jania rubens</i>	Jania	Corallinaceae	Corallinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Jania virgata</i>	Jania	Corallinaceae	Corallinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Janira maculosa</i>	Janira	Janiridae	Isopoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Janua</i> sp.	Janua	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Jasmineira elegans</i>	Jasmineira	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Jassa falcata</i>	Jassa	Ischyroceridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Jassa marmorata</i>	Jassa	Ischyroceridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Jassa</i> sp.	Jassa	Ischyroceridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Joeropsis brevicornis</i>	Joeropsis	Joeropsididae	Isopoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Josephella marenzelleri</i>	Josephella	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Jujubinus exasperatus</i>	Jujubinus	Trochidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Kallymenia reniformis</i>	Kallymenia	Kallymeniaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Kefersteinia cirrata</i>	Kefersteinia	Hesionidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Kellia suborbicularis</i>	Kellia	Kelliidae	Veneroida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Kirchenpaueria halecioides</i>	Ventromma	Kirchenpaueriidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Kirchenpaueria pinnata</i>	Kirchenpaueria	Kirchenpaueriidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Kurtiella bidentata</i>	Mysella	Montacutidae	Veneroida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Laeonereis glauca</i>	Laeonereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Laeospira corallinae</i>	Laeospira	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Laomedea calceolifera</i>	Laomedea	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Laomedea flexuosa</i>	Laomedea	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Laomedea neglecta</i>	Laomedea	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Laomedea</i> sp.	Laomedea	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Laonice</i> sp.	Laonice	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Lasaea adansonii</i>	Lasaea	Lasaeidae	Veneroida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Laurencia obtusa</i>	Laurencia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Leathesia marina</i>	Leathesia	Chordariaceae	Ectocarpales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Lembos</i> sp.	Lembos	Aoridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Lembos websteri</i>	Lembos	Aoridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Leodice harassii</i>	Leodice	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Leodice torquata</i>	Leodice	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Lepidochitonina cinerea</i>	Lepidochitona	Lepidochitonidae	Chitonida	Polyplacophora	Mollusca	Herbivore (10)
<i>Lepidonotus clava</i>	Lepidonotus	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)

Assessment of benthic hard substratum communities

<i>Lepidopleurus cajetanus</i>	Lepidopleurus	Leptochitonidae	Lepidopleurida	Polyplacophora	Mollusca	Herbivore (10)
<i>Leptochelia savignyi</i>	Leptochelia	Leptocheiliidae	Tanaidacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Leptognathia</i> sp.	Leptognathia	Leptognathiidae	Tanaidacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Leptognathiidae</i> sp.	Leptognathiidae gn.	Leptognathiidae	Tanaidacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Leptogorgia sarmentosa</i>	Leptogorgia	Gorgoniidae	Alcyonacea	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Leptomysis gracilis</i>	Leptomysis	Mysidae	Mysida	Malacostraca	Arthropoda	Planktrotroph (19)
<i>Leptoplana tremellaris</i>	Leptoplana	Leptoplanidae	Polycladida	Rhabditophora	Platyhelminthes	Predator (22)
<i>Leucosolenia</i> sp.	Leucosolenia	Leucosoleniidae	Leucosolenida	Calcarea	Porifera	Suspension feeder (2-3)
<i>Leucosolenia variabilis</i>	Leucosolenia	Leucosoleniidae	Leucosolenida	Calcarea	Porifera	Suspension feeder (2-3)
<i>Leucothoe</i> sp.	Leucothoe	Leucothoidae	Amphipoda	Malacostraca	Arthropoda	Detritivore (29)
<i>Leucothoe spinicarpa</i>	Leucothoe	Leucothoidae	Amphipoda	Malacostraca	Arthropoda	Detritivore (29)
<i>Lichenopora</i> sp.	Lichenopora	Lichenoporidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Lichina pygmaea</i>	Lichina	Lichinaceae	Lichinales	Lichinomycetes	Ascomycota	Symbiont contribution (12)
<i>Liljeborgia kinahani</i>	Liljeborgia	Liljeborgiidae	Amphipoda	Malacostraca	Arthropoda	Predator (22)
<i>Liljeborgia pallida</i>	Liljeborgia	Liljeborgiidae	Amphipoda	Malacostraca	Arthropoda	Predator (22)
<i>Lima</i> sp.	Lima	Limidae	Limoida	Bivalvia	Mollusca	Suspension feeder (2-3) predator (22)
<i>Limaria hians</i>	Limaria	Limidae	Limoida	Bivalvia	Mollusca	Suspension feeder (2-3) predator (22)
<i>Limaria loscombi</i>	Limaria	Limidae	Limoida	Bivalvia	Mollusca	Suspension feeder (2-3) predator (22)
<i>Liocarcinus holsatus</i>	Liocarcinus	Polybiidae	Decapoda	Malacostraca	Arthropoda	Predator (22)
<i>Liocarcinus navigator</i>	Liocarcinus	Polybiidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Liocarcinus</i> sp.	Liocarcinus	Polybiidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Lithophaga aristata</i>	Lithophaga	Mytilidae	Mytiloida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Lithophyllum byssoides</i>	Lithophyllum	Corallinaceae	Corallinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Lithophyllum incrustans</i>	Lithophyllum	Corallinaceae	Corallinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Lithophyllum tortuosum</i>	Lithophyllum	Corallinaceae	Corallinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Littorina saxatilis</i>	Littorina	Littorinidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Lomentaria articulata</i>	Lomentaria	Lomentariaceae	Rhodymeniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Lomentaria clavellosa</i>	Lomentaria	Lomentariaceae	Rhodymeniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Lomentaria ercegoviciae</i>	Lomentaria	Lomentariaceae	Rhodymeniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Lomentaria</i> sp.	Lomentaria	Lomentariaceae	Rhodymeniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Lophosiphonia repta</i> bunda	Lophosiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Lophosiphonia</i> sp.	Lophosiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Lophozozymus incisus</i>	Lophozozymus	Xanthidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Lucernaria</i> sp.	Lucernaria	Lucernariidae	Stauromedusae	Stauromedusae	Cnidaria	Predator (22)
<i>Lumbrineriopsis paradoxa</i>	Lumbrineriopsis	Lumbrineridae	Eunicida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Lumbrineris coccinea</i>	Lumbrineris	Lumbrineridae	Eunicida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Lumbrineris funchalensis</i>	Lumbrineris	Lumbrineridae	Eunicida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Lumbrineris latreilli</i>	Lumbrineris	Lumbrineridae	Eunicida	Polychaeta	Annelida	Predator (22)
<i>Lumbrineris</i> sp.	Lumbrineris	Lumbrineridae	Eunicida	Polychaeta	Annelida	Predator (22)
<i>Lyngbya confervoides</i>	Lyngbya	Oscillatoriaceae	Oscillatoriales	Cyanophyceae	Cyanobacteria	
<i>Lyngbya</i> sp.	Lyngbya	Oscillatoriaceae	Oscillatoriales	Cyanophyceae	Cyanobacteria	
<i>Lysianassa ceratina</i>	Lysianassa	Lysianassinae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Lysianassidae</i> sp.	Lysianassinae gn.	Lysianassinae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)

<i>Lysidice collaris</i>	Lysidice	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Lysidice hebes</i>	Lysidice	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Lysidice ninetta</i>	Lysidice	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Macropodia linaresi</i>	Macropodia	Inachidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Macropodia rostrata</i>	Macropodia	Inachidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Macropodia</i> sp.	Macropodia	Inachidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Macrura reptantia</i>	Decapoda or.	Decapoda fm.	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Majidae</i> sp.	Majidae gn.	Majidae	Decapoda	Malacostraca	Arthropoda	
<i>Maldanidae</i> sp.	Maldanidae gn.	Maldanidae	Sedentaria	Polychaeta	Annelida	Detritivore (29)
<i>Malmgreniella lunulata</i>	Malmgreniella	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Manayunkia aestuarina</i>	Manayunkia	Fabriciidae	Sabellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Mangelia attenuata</i>	Mangelia	Mangeliidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Mangelia costata</i>	Mangelia	Mangeliidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Mangelia costulata</i>	Mangelia	Mangeliidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Mangelia</i> sp.	Mangelia	Mangeliidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Manzonia crassa</i>	Manzonia	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Marphysa fallax</i>	Marphysa	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Marphysa sanguinea</i>	Marphysa	Eunicidae	Eunicida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Marshallora adversa</i>	Marshallora	Triphoridae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Marthasterias glacialis</i>	Marthasterias	Asteriidae	Forcipulatida	Astroidea	Echinodermata	Predator (22)
<i>Mastocarpus stellatus</i>	Mastocarpus	Phyllophoraceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Maupasia</i> sp.	Maupasia	Lopadorrhynchidae	Phyllodocida	Polychaeta	Annelida	
<i>Mediomastus fragilis</i>	Mediomastus	Capitellidae	Sedentaria	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Mediomastus</i> sp.	Mediomastus	Capitellidae	Sedentaria	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Megatrema anglicum</i>	Megatrema	Pyrgomatidae	Sessilia	Maxillipoda	Arthropoda	Suspension feeder (2-3)
<i>Melarhaphe neritoides</i>	Melarhaphe	Littorinidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Melitidae</i> sp.	Melitidae gn.	Melitidae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Mesochaetopterus sagittarius</i>	Mesochaetopterus	Chaetopteridae	Sedentaria	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Mesophyllum lichenoides</i>	Mesophyllum	Hapalidiaceae	Corallinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Microcladia glandulosa</i>	Microcladia	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Microcosmus</i> sp.	Microcosmus	Pyuridae	Stolidobranchia	Asciidae	Chordata	Suspension feeder (2-3)
<i>Microdeutopus anomalus</i>	Microdeutopus	Aoridae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Microdeutopus chelifer</i>	Microdeutopus	Aoridae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Microdeutopus damnoniensis</i>	Microdeutopus	Aoridae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Microdeutopus</i> sp.	Microdeutopus	Aoridae	Amphipoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Micromaldane ornithocheaeta</i>	Micromaldane	Maldanidae	Sedentaria	Polychaeta	Annelida	Detritivore (29)
<i>Micronereis variegata</i>	Micronereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Mimachlamys varia</i>	Mimachlamys	Pectinidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Modiolula phaseolina</i>	Modiolula	Mytilidae	Mytiloida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Modiolus barbatus</i>	Modiolus	Mytilidae	Mytiloida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Mohnia</i> sp.	Mohnia	Buccinidae	Neogastropoda	Gastropoda	Mollusca	Detritivore (29)
<i>Monia patelliformis</i>	Monia	Anomiidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)

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<i>Monia squama</i>	Monia	Anomiidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Monocorophium sextonae</i>	Monocorophium	Corophiidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Monophorus erythrosoma</i>	Monophorus	Triphoridae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Monophorus perversus</i>	Monophorus	Triphoridae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Monophorus</i> sp.	Monophorus	Triphoridae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Monosporus pedicellatus</i>	Monosporus	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Morchellium argus</i>	Morchellium	Polyclinidae	Aplousobranchia	Asciidiacea	Chordata	Suspension feeder (2-3)
<i>Muricidae</i> sp.	Muricidae gn.	Muricidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Musculus costulatus</i>	Musculus	Mytilidae	Mytiloidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Musculus discors</i>	Musculus	Mytilidae	Mytiloidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Musculus subpictus</i>	Musculus	Mytilidae	Mytiloidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Mycale</i> sp.	Mycale	Microcionidae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Myrianida</i>	Myrianida	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Myrianida brachycephala</i>	Myrianida	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Myrianida convoluta</i>	Myrianida	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Myrianida inermis</i>	Myrianida	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Myrianida pinnigera</i>	Myrianida	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Myrianida prolifera</i>	Myrianida	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Myrianida quindecimdentata</i>	Myrianida	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Myrianida rubropunctata</i>	Myrianida	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Myriogramme minuta</i>	Myriogramme	Delessertiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Myriogramme</i> sp.	Myriogramme	Delessertiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Mysia undata</i>	Mysia	Veneridae	Veneroida	Bivalvia	Mollusca	Deposit feeder (4-5)
<i>Mysida</i> sp.	Mysida gn.	Mysida fm.	Mysida or.	Mysida cl.	Arthropoda	
<i>Mysta picta</i>	Mysta	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Mystides</i> sp.	Mystides	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Mytilaster minimus</i>	Mytilaster	Mytilidae	Mytiloidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Mytilaster solidus</i>	Mytilaster	Mytilidae	Mytiloidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Mytilidae</i> sp.	Mytilidae gn.	Mytilidae	Mytiloidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Mytilus edulis</i>	Mytilus	Mytilidae	Mytiloidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Mytilus galloprovincialis</i>	Mytilus	Mytilidae	Mytiloidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Myxicola</i> sp.	Myxicola	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Myxilla incrassans</i>	Myxilla	Myxillidae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Myxilla</i> sp.	Myxilla	Myxillidae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Naineris laevigata</i>	Naineris	Orbiniidae	Sedentaria	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Nannastacidae</i> sp.	Nannastacidae gn.	Nannastacidae	Cumacea	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Nannastacus unguiculatus</i>	Nannastacus	Nannastacidae	Cumacea	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Nannonyx spinimanus</i>	Nannonyx	Lysianassidae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Nassarius incrassatus</i>	Nassarius	Nassariidae	Neogastropoda	Gastropoda	Mollusca	Scavenger (11)
<i>Nassarius pygmaeus</i>	Nassarius	Nassariidae	Neogastropoda	Gastropoda	Mollusca	Scavenger (11)
<i>Nassarius reticulatus</i>	Nassarius	Nassariidae	Neogastropoda	Gastropoda	Mollusca	Scavenger (11)
<i>Nassarius</i> sp.	Nassarius	Nassariidae	Neogastropoda	Gastropoda	Mollusca	Scavenger (11)
<i>Neanthes nubila</i>	Neanthes	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Neanthes rubicunda</i>	Neanthes	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)

<i>Neanthes</i> sp.	Neanthes	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Nebalia strausi</i>	Nebalia	Nebaliidae	Nebaliacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Necora puber</i>	Necora	Polybiidae	Decapoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Nemalion helminthoides</i>	Nemalion	Liagoraceae	Nemaliales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Nematoda</i> sp.	Nematoda gn.	Nematoda fm.	Nematoda or.	Nematoda cl.	Nematoda	
<i>Nemertea</i> sp.	Nemertea gn.	Nemertea fm.	Nemertea or.	Nemertea cl.	Nemertea	
<i>Nemertesia antennina</i>	Nemertesia	Plumulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Neodexiospira pseudocorrugata</i>	Neodexiospira	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Nephasoma</i> sp.	Nephasoma	Golfingiidae	Golfingiida	Sipunculidea	Sipuncula	Omnivore (8)
<i>Nereididae</i> sp.	Nereididae gn.	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Nereimyra punctata</i>	Nereimyra	Hesionidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Nereiphylla paretti</i>	Nereiphylla	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Nereiphylla rubiginosa</i>	Nereiphylla	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Nereiphylla</i> sp.	Nereiphylla	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Nicolea venustula</i>	Nicolea	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Nitophyllum punctatum</i>	Nitophyllum	Delessertiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Notomastus</i> sp.	Notomastus	Capitellidae	Sedentaria	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Notophyllum foliosum</i>	Notophyllum	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Nototropis falcatus</i>	Nototropis	Atylidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Nototropis guttatus</i>	Nototropis	Atylidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Nudibranchia</i> sp.	Nudibranchia gn.	Nudibranchia fm.	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Nymphonidae</i> sp.	Nymphonidae gn.	Nymphonidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Obelia bidentata</i>	Obelia	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Obelia dichotoma</i>	Obelia	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Obelia geniculata</i>	Obelia	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Ocenebra erinaceus</i>	Ocenebra	Muricidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Ocenebrina aciculata</i>	Ocenebra	Muricidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Ocnus lacteus</i>	Ocnus	Cucumariidae	Dendrochirotida	Holothuroidea	Echinodermata	Deposit feeder (4-5)
<i>Odontosyllis ctenostoma</i>	Odontosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Odontosyllis gibba</i>	Odontosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Odontosyllis polycera</i>	Odontosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Odontosyllis</i> sp.	Odontosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Odostomia acuta</i>	Odostomia	Pyramidellidae	Heterobranchia	Gastropoda	Mollusca	Predator (22)
<i>Odostomia lukiisi</i>	Odostomia	Pyramidellidae	Heterobranchia	Gastropoda	Mollusca	Predator (22)
<i>Odostomia</i> sp.	Odostomia	Pyramidellidae	Heterobranchia	Gastropoda	Mollusca	Predator (22)
<i>Odostomia unidentata</i>	Odostomia	Pyramidellidae	Heterobranchia	Gastropoda	Mollusca	Predator (22)
<i>Oenonidae</i> sp.	Oenonidae gn.	Oenonidae	Eunicida	Polychaeta	Annelida	
<i>Oligochaeta</i> sp.	Oligochaeta gn.	Oligochaeta fm.	Oligochaeta or.	Clitellata	Annelida	Deposit feeder (4-5)
<i>Onchidella celtica</i>	Onchidella	Onchidiidae	Systellommatophora	Gastropoda	Mollusca	Predator (22)
<i>Onchidorididae</i> sp.	Onchidorididae gn.	Onchidorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Onchidoris</i> sp.	Onchidoris	Onchidorididae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Ophioderma longicauda</i>	Ophioderma	Ophiodermatidae	Ophiurida	Ophiuroidea	Echinodermata	Predator (22)
<i>Ophiothrix fragilis</i>	Ophiothrix	Ophiotrichidae	Ophiurida	Ophiuroidea	Echinodermata	Suspension feeder (2-3) deposit feeder (4-5)

Assessment of benthic hard substratum communities

<i>Ophryotrocha</i> sp.	Ophryotrocha	Dorvilleidae	Eunicida	Polychaeta	Annelida	Herbivore (10)
<i>Opistobranchia</i> sp.	Opistobranchia gn.	Opistobranchia fm.	Opistobranchia	Gastropoda	Mollusca	Predator (22)
<i>Opisthosyllis</i> sp.	Opisthosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Oriopsis armandi</i>	Oriopsis	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Orthopyxis everta</i>	Orthopyxis	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Orthopyxis integra</i>	Orthopyxis	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Oscillatoria</i> sp.	Oscillatoria	Oscillatoriaceae	Oscillatoriales	Cyanophyceae	Cyanobacteria	
<i>Osmundea pinnatifida</i>	Osmundea	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ostracoda</i> sp.	Ostracoda gn.	Ostracoda fm.	Ostracoda or.	Ostracoda	Arthropoda	
<i>Ostrea edulis</i>	Ostrea	Ostreidae	Ostroidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Ostreidae</i> sp.	Ostreidae gn.	Ostreidae	Ostroidea	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Otina ovata</i>	Otina	Otinidae	Pulmonata	Gastropoda	Mollusca	Scavenger (11)
<i>Owenia fusiformis</i>	Owenia	Oweniidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3) deposit feeder (4-5)
<i>Oxydromus</i>	Oxydromus	Hesionidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Oxydromus flexuosus</i>	Oxydromus	Hesionidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Pachygrapsus marmoratus</i>	Pachygrapsus	Grapsidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Pachymatisma johnstonia</i>	Pachymatisma	Geodiidae	Astrophorida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Pagurus bernhardus</i>	Pagurus	Paguridae	Decapoda	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Pagurus cuanensis</i>	Pagurus	Paguridae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Pagurus prideaux</i>	Pagurus	Paguridae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Pagurus</i> sp.	Pagurus	Paguridae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Palaemon longirostris</i>	Palaemon	Palaemonidae	Decapoda	Malacostraca	Arthropoda	Predator (22)
<i>Paleanotus chrysolepis</i>	Paleanotus	Chrysopetalidae	Phyllodocida	Polychaeta	Annelida	Omnivore (8)
<i>Pandalina brevirostris</i>	Pandalina	Pandalidae	Decapoda	Malacostraca	Arthropoda	Predator (22) omnivore (8)
<i>Panomya norvegica</i>	Panomya	Hiatellidae	Euheterodonta	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Panopea</i> sp.	Panopea	Hiatellidae	Euheterodonta	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Papillocardium papillosum</i>	Papillocardium	Cardiidae	Veneroida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Paracentrotus lividus</i>	Paracentrotus	Parechinidae	Camarodonta	Echinoidea	Echinodermata	Herbivore (10)
<i>Paradoneis lyra</i>	Paradoneis	Paraonidae	Sedentaria	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Paraehlersia ferrugina</i>	Paraehlersia	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Parajassa pelagica</i>	Parajassa	Ischyroceridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Parametopa kervillei</i>	Parametopa	Stenothoidae	Amphipoda	Malacostraca	Arthropoda	
<i>Paranthura costana</i>	Paranthura	Paranthuridae	Isopoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Paranthura nigropunctata</i>	Paranthura	Paranthuridae	Isopoda	Malacostraca	Arthropoda	Suspension feeder (2-3) predator (22)
<i>Parapionosyllis brevicirra</i>	Parapionosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Parapionosyllis elegans</i>	Parapionosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Parapionosyllis</i> sp.	Parapionosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Paratanaidae</i> sp.	Paratanaidea gn.	Paratanaidea	Tanaidacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Parhyale explorator</i>	Parhyale	Hyalidae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Parougia caeca</i>	Parougia	Dorvilleidae	Eunicida	Polychaeta	Annelida	Herbivore (10)
<i>Parthenopoides massena</i>	Parthenopoides	Parthenopidae	Decapoda	Malacostraca	Arthropoda	
<i>Patella depressa</i>	Patella	Patellidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)
<i>Patella intermedia</i>	Patella	Patellidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)

<i>Patella rustica</i>	Patella	Patellidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)
<i>Patella</i> sp.	Patella	Patellidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)
<i>Patella ulyssiponensis</i>	Patella	Patellidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)
<i>Patella vulgaris</i>	Patella	Patellidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)
<i>Patellidae</i> sp.	Patellidae gn.	Patellidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)
<i>Patinella radiata</i>	Patinella	Lichenoporidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Pawsonia saxicola</i>	Pawsonia	Cucumariidae	Dendrochirotida	Holothuroidea	Echinodermata	Deposit feeder (4-5)
<i>Pedicellina cernua</i>	Pedicellina	Pedicellinidae	Coloniales or.	Coloniales	Entoprocta	Suspension feeder (2-3)
<i>Pentapora fascialis</i>	Pentapora	Bitectiporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Pereionotus testudo</i>	Pereionotus	Phlantidae	Amphipoda	Malacostraca	Arthropoda	Detritivore (29)
<i>Perforatus perforatus</i>	Perforatus	Balanidae	Sessilia	Maxillopoda	Arthropoda	Suspension feeder (2-3)
<i>Perinereis cultrifera</i>	Perinereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Perinereis marionii</i>	Perinereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Perinereis</i> sp.	Perinereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Perioculodes longimanus</i>	Perioculodes	Oedicerotidae	Amphipoda	Malacostraca	Arthropoda	Predator (22)
<i>Petricola lithophaga</i>	Petricola	Veneridae	Veneroida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Petrosia ficiformis</i>	Petrosia	Petrosiidae	Haplosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Peyssonnelia atropurpurea</i>	Peyssonnelia	Peyssonneliaceae	Peyssonneliales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Peyssonnelia coriacea</i>	Peyssonnelia	Peyssonneliaceae	Peyssonneliales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Peyssonnelia</i> sp.	Peyssonnelia	Peyssonneliaceae	Peyssonneliales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Peyssonnelia squamaria</i>	Peyssonnelia	Peyssonneliaceae	Peyssonneliales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Phallusia mammillata</i>	Phallusia	Asciidiidae	Phlebobranchia	Asciidiacea	Chordata	Suspension feeder (2-3)
<i>Phascolosoma granulatum</i>	Phascolosoma	Phascolosomatidae	Phascolosomatida	Phascolosomatidea	Sipuncula	Omnivore (8)
<i>Philine quadripartita</i>	Philline	Philinidae	Cephalaspidea	Gastropoda	Mollusca	Predator (22)
<i>Philine</i> sp.	Philline	Philinidae	Cephalaspidea	Gastropoda	Mollusca	Predator (22)
<i>Philocheras fasciatus</i>	Philocheras	Crangonidae	Decapoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Pholadidae</i> sp.	Pholadidae gn.	Pholadidae	Myoida	Bivalvia	Mollusca	
<i>Pholoe inornata</i>	Pholoe	Pholoidae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Pholoe minuta</i>	Phyllochaetopterus	Chaetopteridae	Sedentaria	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Phorcas lineatus</i>	Phorcas	Trochidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Phoronis</i> sp.	Phoronida gn.	Phoronida fm.	Phoronida or.	Phoronida cl.	Phoronida	Suspension feeder (2-3)
<i>Photis longicaudata</i>	Photis	Photidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Phtisica marina</i>	Phtisica	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Phtisica</i> sp.	Phtisica	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Phyllochaetopterus gracilis</i>	Phyllochaetopterus	Chaetopteridae	Sedentaria	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Phyllochaetopterus socialis</i>	Phyllochaetopterus	Chaetopteridae	Sedentaria	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Phyllodoce groenlandica</i>	Phyllodoce	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Phyllodoce laminosa</i>	Phyllodoce	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Phyllodoce maculata</i>	Phyllodoce	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Phyllodoce madeirensis</i>	Phyllodoce	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Phyllodoce mucosa</i>	Phyllodoce	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Phyllodoce</i> sp.	Phyllodoce	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Phyllodocidae</i> sp.	Phyllodocidae gn.	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)

Assessment of benthic hard substratum communities

<i>Phyllophora crispa</i>	Phyllophora	Phyllophoraceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Phyllophora pseudoceranoides</i>	Phyllophora	Phyllophoraceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Phyllophora</i> sp.	Phyllophora	Phyllophoraceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Pilumnus hirtellus</i>	Pilumnus	Pilumnidae	Decapoda	Malacostraca	Arthropoda	Detritivore (29)
<i>Pilumnus</i> sp.	Pilumnus	Pilumnidae	Decapoda	Malacostraca	Arthropoda	Detritivore (29)
<i>Pionosyllis anophthalma</i>	Pionosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Pionosyllis dionisi</i>	Pionosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Pionosyllis lamelligera</i>	Pionosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Pionosyllis serratisetosa</i>	Pionosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Pionosyllis</i> sp.	Pionosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Pirimela denticulata</i>	Pirimela	Pirimelidae	Decapoda	Malacostraca	Arthropoda	Detritivore (29)
<i>Pisa armata</i>	Pisa	Epioltidae	Decapoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Pisa nodipes</i>	Pisa	Epioltidae	Decapoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Pisa</i> sp.	Pisa	Epioltidae	Decapoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Pisa tetraodon</i>	Pisa	Epioltidae	Decapoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Pisidia longicornis</i>	Pisidia	Porcellanidae	Decapoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Pisidia</i> sp.	Pisidia	Porcellanidae	Decapoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Pista cristata</i>	Pista	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Pista</i> sp.	Pista	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Pista unibranchia</i>	Pista	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Plagioecia patina</i>	Plagioecia	Plagioeciidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Plakosyllis brevipes</i>	Plakosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Plakosyllis</i> sp.	Plakosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Platyhelminthes</i> sp.	Platyhelminthes gn.	Platyhelminthes fm.	Platyhelminthes or.	Platyhelminthes cl.	Platyhelminthes	
<i>Platynereis coccinea</i>	Platynereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Platynereis dumerili</i>	Platynereis	Nereididae	Phyllodocida	Polychaeta	Annelida	Predator (22) omnivore (8)
<i>Pleonosporium</i>	Plenosporium	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Pleonosporium borreri</i>	Pleonosporium	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Pleonosporium flexuosum</i>	Pleonosporium	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Plocamium cartilagineum</i>	Plocamium	Plocamiaceae	Plocamiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Plocamium raphelisianum</i>	Plocamium	Plocamiaceae	Plocamiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Plumularia obliqua</i>	Plumularia	Plumulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Plumularia setacea</i>	Plumularia	Plumulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Plumulariidae</i> sp.	Plumulariidae gn.	Plumulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Podocerus variegatus</i>	Podocerus	Podoceridae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Podocoryna carnea</i>	Podocoryna	Hydractiniidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Pollicipes pollicipes</i>	Pollicipes	Pollicipedidae	Scalpelliformes	Maxillopoda	Arthropoda	Suspension feeder (2-3)
<i>Polyceridae</i> sp.	Polyceridae gn.	Polyceridae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Polycirrus denticulatus</i>	Polycirrus	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Polycirrus</i> sp.	Polycirrus	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Polycirrus tenuisetis</i>	Polycirrus	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Polycyathus muellerae</i>	Polycyathus	Caryophyllidae	Scleractinia	Anthozoa	Cnidaria	Suspension feeder (2-3)
<i>Polydora ciliata</i>	Polydora	Spionidae	Spionida	Polychaeta	Annelida	Suspension feeder (2-3) deposit feeder (4-5)

<i>Polydora cornuta</i>	Polydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Polydora hoplura</i>	Polydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Polydora</i> sp.	Polydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Polymastia mamillaris</i>	Polymastia	Polymastiidae	Hadromerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Polyneura bonnemaisonii</i>	Polyneura	Delesseriaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Polyneura</i> sp.	Polyneura	Delesseriaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Polynoidae</i> sp.	Polynoidae gn.	Polynoidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Polynoinae</i> sp.	Polynoinae gn.	Polynoidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Polyopthalmus pictus</i>	Polyopthalmus	Opheliidae	Sedentaria	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Polysiphonia atlantica</i>	Polysiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Polysiphonia elongata</i>	Polysiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Polysiphonia furcellata</i>	Polysiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Polysiphonia</i> sp.	Polysiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Pontodoridae</i> sp.	Pontodoridae gn.	Pontodoridae	Phyllodocida	Polychaeta	Annelida	
<i>Porifera</i> sp.	Porifera gn.	Porifera fm.	Porifera or.	Porifera cl.	Porifera	Suspension feeder (2-3)
<i>Potamilla</i> sp.	Potamilla	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Potamilla torelli</i>	Potamilla	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Prionospio cirrifera</i>	Prionospio	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Prionospio multibranchiata</i>	Prionospio	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Prionospio</i> sp.	Prionospio	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Prionospio steenstrupi</i>	Prionospio	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Proceraea aurantiaca</i>	Proceraea	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Proceraea picta</i>	Proceraea	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Proceraea</i> sp.	Proceraea	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Procerastea halleziana</i>	Procerastea	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Processa edulis</i>	Processa	Processidae	Decapoda	Malacostraca	Arthropoda	Planktotroph (19)
<i>Processa modica</i>	Processa	Processidae	Decapoda	Malacostraca	Arthropoda	Planktotroph (19)
<i>Processa nouveli</i>	Processa	Processidae	Decapoda	Malacostraca	Arthropoda	Planktotroph (19)
<i>Processa</i> sp.	Processa	Processidae	Decapoda	Malacostraca	Arthropoda	Planktotroph (19)
<i>Prosthiostomum siphunculus</i>	Prosthiostomum	Prosthiostomidae	Polycladida	Rhabditophora	Platyhelminthes	Predator (22)
<i>Protula tubularia</i>	Protula	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Psamathe fusca</i>	Psamathe	Hesionidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Psammechinus miliaris</i>	Psammechinus	Parechinidae	Camarodontata	Echinoidea	Echinodermata	Predator (22)
<i>Pseudamussium sulcatum</i>	Pseudamussium	Pectinidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Pseudomyctides limbata</i>	Pseudomyctides	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Pseudopolydora pulchra</i>	Pseudopolydora	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Pseudopotamilla reniformis</i>	Pseudopotamilla	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Pseudoprotella phasma</i>	Pseudoprotella	Caprellidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Pterocirrus limbatus</i>	Pterocirrus	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Pterocirrus macroceros</i>	Pterocirrus	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Pterocirrus</i> sp.	Pterocirrus	Phyllodocidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Pterocladiella capillacea</i>	Pterocladiella	Pterocladiaceae	Gelidiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Pterosiphonia ardeana</i>	Pterosiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Pterosiphonia complanata</i>	Pterosiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Pterosiphonia parasitica</i>	Pterosiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)

Assessment of benthic hard substratum communities

<i>Pterosiphonia pennata</i>	Pterosiphonia	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Pterothamnion crispum</i>	Pterothamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Pterothamnion plumula</i>	Pterothamnion	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Ptilothamnion pluma</i>	Ptilothamnion	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Punctaria latifolia</i>	Punctaria	Chordariaceae	Ectocarpales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Puncturella noachina</i>	Puncturella	Fissurellidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Pycnogonida</i> sp.	Pycnogonida gn.	Pycnogonida fm.	Pycnogonida or.	Pycnogonida	Arthropoda	Predator (22)
<i>Pyramidellidae</i> sp.	Pyramidellidae gn.	Pyramidellidae	Heterobranchia	Gastropoda	Mollusca	
<i>Pyrgoma</i> sp.	Pyrgoma	Pyrgomatidae	Sessilia	Maxillopoda	Arthropoda	Suspension feeder (2-3)
<i>Pyropia leucosticta</i>	Pyropia	Bangiaceae	Bangiales	Bangiophyceae	Rhodophyta	Photoautotroph (1)
<i>Ralfsia verrucosa</i>	Ralfsia	Ralfsiaceae	Ralfsiales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Raphitoma linearis</i>	Raphitoma	Raphitomidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Raphitoma purpurea</i>	Raphitoma	Raphitomidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Rhizocaulus verticillatus</i>	Rhizocaulus	Campanulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Rhizoclonium riparium</i>	Rhizoclonium	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Rhizoclonium</i> sp.	Rhizoclonium	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Rhizoclonium tortuosum</i>	Rhizoclonium	Cladophoraceae	Cladophorales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Rhodomelaceae</i> sp.	Rhodomelaceae gn.	Rhodomelaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Rhodophyllis divaricata</i>	Rhodophyllis	Cystocloniaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Rhodophysema elegans</i>	Rhodophysema	Rhodophysemataceae	Palmariales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Rhodymenia pseudopalmata</i>	Rhodymenia	Rhodymeniaceae	Rhodymeniales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Rhynchozoon bispinosum</i>	Rhynchozoon	Phidoloporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Rissoa decorata</i>	Rissoa	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Rissoa guerinii</i>	Rissoa	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Rissoa lilacina</i>	Rissoa	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Rissoa parva</i>	Rissoa	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Rissoa</i> sp.	Rissoa	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Rissoidae</i> sp.	Rissoidae gn.	Rissoidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Rocellaria dubia</i>	Rocellaria	Gastrochaenidae	Euheterodontia	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Sabella discifera</i>	Sabella	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Sabella pavonina</i>	Sabella	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Sabella</i> sp.	Sabella	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Sabella spallanzanii</i>	Sabella	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Sabellaria alveolata</i>	Sabellaria	Sabellariidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Sabellaria spinulosa</i>	Sabellaria	Sabellariidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Sabellidae</i> sp.	Sabellidae gn.	Sabellidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Sagartia elegans</i>	Sagartia	Sagartiidae	Actiniaria	Anthozoa	Cnidaria	Predator (22)
<i>Sagartia</i> sp.	Sagartia	Sagartiidae	Actiniaria	Anthozoa	Cnidaria	Predator (22)
<i>Salacia desmoides</i>	Salacia	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Salvatoria clavata</i>	Salvatoria	Syllidae	Phyllocoidea	Polychaeta	Annelida	Predator (22)
<i>Salvatoria limbata</i>	Salvatoria	Syllidae	Phyllocoidea	Polychaeta	Annelida	Predator (22)
<i>Salvatoria</i> sp.	Salvatoria	Syllidae	Phyllocoidea	Polychaeta	Annelida	Predator (22)
<i>Salvatoria yraidae</i>	Salvatoria	Syllidae	Phyllocoidea	Polychaeta	Annelida	Predator (22)
<i>Sarcotragus fasciculatus</i>	Sarcotragus	Irciniidae	Dictyoceratida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Sarcotragus foetidus</i>	Sarcotragus	Irciniidae	Dictyoceratida	Demospongiae	Porifera	Suspension feeder (2-3)

<i>Saxicavella jeffreysi</i>	Saxicavella	Basterotiidae	Veneroida	Bivalvia	Mollusca	
<i>Scageliopsis patens</i>	Scageliopsis	Ceramiaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Scalarispongia scalaris</i>	Scalarispongia	Thorectidae	Dictyoceratida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Schistomerings rudolphi</i>	Schistomerings	Dorvilleidae	Eunicida	Polychaeta	Annelida	Herbivore (10)
<i>Schizobrachiella sanguinea</i>	Schizobrachiella	Schizoporellidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Schizomavella</i> sp.	Schizomavella	Bitectiporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Schizoporella errata</i>	Schizoporella	Schizoporellidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Schizoporella</i> sp.	Schizoporella	Schizoporellidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Schizymenia dubyi</i>	Schizymenia	Schizymeniaceae	Nemastomatales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Schottera nicaeensis</i>	Schottera	Phyllophoraceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Sclerocheilus minutus</i>	Sclerocheilus	Scalibregmatidae	Sedentaria	Polychaeta	Annelida	Detritivore (29)
<i>Scoletoma fragilis</i>	Scoletoma	Lumbrineridae	Eunicida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Scoletoma funchalensis</i>	Scoletoma	Lumbrineridae	Eunicida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Scruparia</i> sp.	Scruparia	Serupariidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Scrupocellaria scrupea</i>	Scrupocellaria	Candidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Scrupocellaria</i> sp.	Scrupocellaria	Candidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Scyllarus</i> sp.	Scyllarus	Scyllaridae	Decapoda	Malacostraca	Arthropoda	Predator (22)
<i>Seiropora interrupta</i>	Seiropora	Callithamniaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Seraphsidae</i> sp.	Seraphsidae gn.	Seraphsidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Serejohyale spinidactylus</i>	Serejohyale	Hyalidae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Serpula concharum</i>	Serpula	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Serpula vermicularis</i>	Serpula	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Sertularella distans</i>	Sertularella	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Sertularella ellisii</i>	Sertularella	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Sertularella fusiformis</i>	Sertularella	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Sertularella gaudichaudi</i>	Sertularella	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Sertularella gayi</i>	Sertularella	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Sertularella mediterranea</i>	Sertularella	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Sertularella polzonias</i>	Sertularella	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Sertularella</i> sp.	Sertularella	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Sertularia distans</i>	Sertularia	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Sertulariidae</i> sp.	Sertulariidae gn.	Sertulariidae	Leptothecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Similipecten similis</i>	Similipecten	Propeamussiidae	Pectinoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Simnia</i> sp.	Simnia	Ovulidae	Littorinimorpha	Gastropoda	Mollusca	Predator (22)
<i>Simnia spelta</i>	Simnia	Ovulidae	Littorinimorpha	Gastropoda	Mollusca	Predator (22)
<i>Sipuncula</i> sp.	Sipuncula gn.	Sipuncula fm.	Sipuncula or.	Sipuncula cl.	Sipuncula	Omnivore (8)
<i>Skeneopsis planorbis</i>	Skeneopsis	Skeneopsidae	Littorinimorpha	Gastropoda	Mollusca	Herbivore (10)
<i>Socarnes erythrophthalmus</i>	Socarnes	Lysianassinae	Amphipoda	Malacostraca	Arthropoda	Grazer (28)
<i>Spatoglossum solieri</i>	Spatoglossum	Dictyotaceae	Dictyotales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Spermothamnion</i> sp.	Spermothamnion	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Sphaelalaria</i> sp.	Sphaelalaria	Sphaelariaceae	Sphaelariales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Sphaerechinus granularis</i>	Sphaerechinus	Toxopneustidae	Camarodonta	Echinoidea	Echinodermata	Herbivore (10)
<i>Sphaerococcus coronopifolius</i>	Sphaerococcus	Sphaerococcaceae	Gigartinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Sphaerodorum gracilis</i>	Sphaerodorum	Sphaerodoridae	Phyllodocida	Polychaeta	Annelida	
<i>Sphaeromatidae</i> sp.	Sphaeromatidae gn.	Sphaeromatidae	Isopoda	Malacostraca	Arthropoda	

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<i>Sphaerosyllis austriaca</i>	Sphaerosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Sphaerosyllis hystrix</i>	Sphaerosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Sphaerosyllis pirifera</i>	Sphaerosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Sphaerosyllis</i> sp.	Sphaerosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Sphondylothamnion multifidum</i>	Sphondylothamnion	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Spio</i> sp.	Spio	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Spiochaetopterus costarum</i>	Spiochaetopterus	Chaetopteridae	Sedentaria	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Spionidae</i> sp.	Spionidae gn.	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Spirobranchus lamarcki</i>	Spirobranchus	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Spirobranchus polytrema</i>	Spirobranchus	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Spirobranchus triquierter</i>	Spirobranchus	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Spirorbis</i> sp.	Spirorbis	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Spongia officinalis</i>	Spongia	Spongidae	Dictyoceratida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Spongiidae</i> sp.	Spongiidae gn.	Spongidae	Dictyoceratida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Spongoclonium caribaeum</i>	Spongoclonium	Wrangeliaceae	Ceramiales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Stauromedusae</i> sp.	Stauromedusae gn.	Stauromedusae fm.	Stauromedusae	Staurozoa	Cnidaria	Predator (22)
<i>Stelletta hispida</i>	Stelleta	Ancorinidae	Astrophorida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Stelletta lactea</i>	Stelleta	Ancorinidae	Astrophorida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Stenosoma acuminatum</i>	Synisoma	Idoteidae	Isopoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Stenosoma lancifer</i>	Stenosoma	Idoteidae	Isopoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Stenothoe eduardi</i>	Stenothoe	Stenothoidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Stenothoe monoculoides</i>	Stenothoe	Stenothoidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Stenothoe tergestina</i>	Stenothoe	Stenothoidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Stenothoidae</i> sp.	Stenothoidae gn.	Stenothoidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Stiliger</i> sp.	Stiliger	Limapontiidae	Sacoglossa	Gastropoda	Mollusca	Herbivore (10)
<i>Stramonita haemastoma</i>	Stramonita	Muricidae	Neogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Streblosoma bairdi</i>	Streblosoma	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Streblospio shrubsolii</i>	Streblospio	Spionidae	Spionida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Striarca lactea</i>	Striarca	Noetiidae	Arcoida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Stylococcus neapolitanus</i>	Stylococcus	Stylochoidea	Polycladida	Rhabditophora	Platyhelminthes	Predator (22)
<i>Subadyte pellucida</i>	Subadyte	Polynoidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Suberites ficus</i>	Suberites	Suberitidae	Hadromerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Suberites</i> sp.	Suberites	Suberitidae	Hadromerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Sunamphitoa pelagica</i>	Sunamphitoa	Ampithoidae	Amphipoda	Malacostraca	Arthropoda	Herbivore (10)
<i>Sycon ciliatum</i>	Sycon	Sycettidae	Leucosolenida	Calcarea	Porifera	Suspension feeder (2-3)
<i>Sycon raphanus</i>	Sycon	Sycettidae	Leucosolenida	Calcarea	Porifera	Suspension feeder (2-3)
<i>Syllidae</i> sp.	Syllidae gn.	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllides fulvus</i>	Syllides	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllides</i> sp.	Syllides	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllidia armata</i>	Syllidia	Hesionidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Syllis alternata</i>	Syllidia	Hesionidae	Phyllodocida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Syllis amica</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis armillaris</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis columbretensis</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)

<i>Syllis corallicola</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis cornuta</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis gracilis</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis hyalina</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis krohni</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis parapari</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis pectinans</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis pontxioi</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis prolifera</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis rosea</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis sp.</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis variegata</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis vittata</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis vivipara</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Syllis westheidei</i>	Syllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Synchelidium</i> sp.	Synchelidium	Oedicerotidae	Amphipoda	Malacostraca	Arthropoda	Predator (22)
<i>Synisoma lancifer</i>	Synisoma	Idoteidae	Isopoda	Malacostraca	Arthropoda	Omnivore (8)
<i>Tanaidacea</i> sp.	Tanaidacea gn.	Tanaidacea fm.	Tanaidacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Tanais dulongii</i>	Tanais	Tanaidae	Tanaidacea	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Tanystylum conirostre</i>	Tanystylum	Ammotheidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Tanystylum orbiculare</i>	Tanystylum	Ammotheidae	Pantopoda	Pycnogonida	Arthropoda	Predator (22)
<i>Taonia atomaria</i>	Taonia	Dictyotaceae	Dictyotales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Tectura</i> sp.	Tectura	Lottiidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)
<i>Tectura virginea</i>	Tectura	Lottiidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)
<i>Tedania</i> sp.	Tedania	Tedaniidae	Poecilosclerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Terebellaria lapidaria</i>	Terebellaria	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Terebellidae</i> sp.	Terebellidae gn.	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Tergipedidae</i> sp.	Tergipedidae gn.	Tergipedidae	Nudibranchia	Gastropoda	Mollusca	Predator (22)
<i>Testudinalia testudinalis</i>	Testudinalia	Lottiidae	Patellogastropoda	Gastropoda	Mollusca	Grazer (28)
<i>Tethya aurantium</i>	Tethya	Tethyidae	Hadromerida	Demospongiae	Porifera	Suspension feeder (2-3)
<i>Thelepus setosus</i>	Thelepus	Terebellidae	Terebellida	Polychaeta	Annelida	Omnivore (8)
<i>Thracia distorta</i>	Thracia	Thraciidae	Anomalodesmata	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Thysanozoon brocchii</i>	Thysanozoon	Pseudocerotidae	Polycladida	Rhabditophora	Platyhelminthes	Predator (22)
<i>Timarete</i> sp.	Timarete	Cirratulidae	Terebellida	Polychaeta	Annelida	Deposit feeder (4-5)
<i>Titanoderma pustulatum</i>	Titanoderma	Corallinaceae	Corallinales	Florideophyceae	Rhodophyta	Photoautotroph (1)
<i>Tonicella rubra</i>	Tonicella	Mopaliidae	Chitonida	Polyplacophora	Mollusca	Herbivore (10)
<i>Tornidae</i> sp.	Tornidae gn.	Tornidae	Littorinimorpha	Gastropoda	Mollusca	
<i>Tricolia pullus</i>	Tricolia	Phasianellidae	Vetigastropoda	Gastropoda	Mollusca	Herbivore (10)
<i>Triphora</i> sp.	Triphora	Triphoridae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Triphoridae</i> sp.	Triphoridae gn.	Triphoridae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Tritaeta gibbosa</i>	Tritaeta	Dexaminidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Trivia monacha</i>	Trivia	Triviidae	Littorinimorpha	Gastropoda	Mollusca	Predator (22)
<i>Trypanosyllis coeliaca</i>	Trypanosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Trypanosyllis zebra</i>	Trypanosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Tubularia indivisa</i>	Tubularia	Tubulariidae	Anthoathecata	Hydrozoa	Cnidaria	Predator (22)

Assessment of benthic hard substratum communities

<i>Tubularia</i> sp.	Tubularia	Tubulariidae	Anthoathecata	Hydrozoa	Cnidaria	Suspension feeder (2-3)
<i>Tubulipora</i> sp.	Tubulipora	Tubuliporidae	Cyclostomatida	Stenolaemata	Bryozoa	Suspension feeder (2-3)
<i>Tunicata</i> sp.	Tunicata gn.	Tunicata fm.	Tunicata or.	Tunicata cl.	Chordata	
<i>Turbicellepora magnicostata</i>	Turbicellepora	Celleporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Turbicellepora</i> sp.	Turbicellepora	Celleporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Turbanilla rufa</i>	Turbanilla	Pyramidellidae	Heterobranchia	Gastropoda	Mollusca	Predator (22)
<i>Turbanilla</i> sp.	Turbanilla	Pyramidellidae	Heterobranchia	Gastropoda	Mollusca	Predator (22)
<i>Typton spongicola</i>	Typton	Palaemonidae	Decapoda	Malacostraca	Arthropoda	Predator (22)
<i>Ulva compressa</i>	Ulva	Ulvaceae	Ulvales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Ulva prolifera</i>	Ulva	Ulvaceae	Ulvales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Ulva rigida</i>	Ulva	Ulvaceae	Ulvales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Ulva</i> sp.	Ulva	Ulvaceae	Ulvales	Ulvophyceae	Chlorophyta	Photoautotroph (1)
<i>Unciola crenatipalma</i>	Unciola	Unciolidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Unciola</i> sp.	Unciola	Unciolidae	Amphipoda	Malacostraca	Arthropoda	Suspension feeder (2-3)
<i>Upogebia</i> sp.	Upogebia	Upogebiidae	Decapoda	Malacostraca	Arthropoda	
<i>Vaunthompsonia cristata</i>	Vaunthompsonia	Bodotriidae	Cumacea	Malacostraca	Arthropoda	Deposit feeder (4-5)
<i>Velutina velutina</i>	Velutina	Velutinidae	Littorinimorpha	Gastropoda	Mollusca	Deposit feeder (4-5)
<i>Veneridae</i> sp.	Veneridae gn.	Veneridae	Veneroida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Venerupis</i> sp.	Venerupis	Veneridae	Veneroida	Bivalvia	Mollusca	Suspension feeder (2-3)
<i>Vermiliopsis infundibulum</i>	Vermiliopsis	Serpulidae	Sabellida	Polychaeta	Annelida	Suspension feeder (2-3)
<i>Verruca stroemia</i>	Verruca	Verrucidae	Sessilia	Maxillopoda	Arthropoda	Suspension feeder (2-3)
<i>Vitreolina philippi</i>	Vitreolina	Eulimidae	Caenogastropoda	Gastropoda	Mollusca	Predator (22)
<i>Watersipora complanata</i>	Watersipora	Watersiporidae	Cheilostomatida	Gymnolaemata	Bryozoa	Suspension feeder (2-3)
<i>Xantho</i> sp.	Xantho	Xanthidae	Decapoda	Malacostraca	Arthropoda	Scavenger (11)
<i>Xenosyllis scabra</i>	Xenosyllis	Syllidae	Phyllodocida	Polychaeta	Annelida	Predator (22)
<i>Zanardinia typus</i>	Zanardinia	Cutleriaeae	Cutleriales	Phaeophyceae	Ochrophyta	Photoautotroph (1)
<i>Zonaria tournefortii</i>	Zonaria	Dictyotaceae	Dictyotales	Phaeophyceae	Ochrophyta	Photoautotroph (1)

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