**Table S6.** Species list. Frequency of occurrence of each taxon amongst all fouled items. yes = found in opportunistic sampling only (= not found during quantitative samplings). (yes) = entangled, but not attached. n.i. = not (further) identified. Habitat: ben = benthic, pel = pelagic. # = found on negatively buoyant items only. ∑ taxa per beach = minimum number of distinguishable taxa per sampled beach. \*almost certainly *Escharina brongniatiana* d’Orbigny, 1842, but, in the absence of more characters to confirm its separate identity, we defer using the combination *Celleporella brongniartiana*.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Ana**(N=129) | **Ova**(N=39) | **MBS**(N=17) | **MBN**(N=15) | **Rit**(N=346) | **Mait**(N=69) | **Cho**(N=540) | **habitat** |
| **Phylum Foraminifera - Class Globothalamea – Order Rotallida (∑)** | x | x | x | x | **1.8** | **1.4** | x |  |
|  Rosalinidae, *Rosalina globularis* d’Orbigny, 1826 | x | x | x | x | 1.2 | 1.4 | x | ben |
|  Planulinidae, *Planulina ariminensis* d’Orbigny, 1826 | x | x | x | x | yes | x | x | ben |
| **Phylum Bryozoa (∑)** | **93.0** | **89.7** | **17.6** | **20.0** | **56.4** | **26.1** | **1.3** |  |
|  Encrusting bryozoa, n.i. (not Membraniporidae)  | x | x | x | x | 4.0 | 5.8 | 0.9 | x |
| **Class Gymnolaemata** **– Order Cheilostomatida (∑)** Cheilostomatida n.i.  | **93.0**x | **89.7**x | **17.6**x | **20.0**6.7 | **52.9**3.5 | **20.3**x | **0.4**x | xx |
| **Suborder Flustrina (∑)** Flustrina n.i.  | **x**x | **x**x | **5.9**5.9 | **13.3**yes | **16.2**4.0 | **10.1**4.3 | **0.4**0.2 | xx |
|  **Superfamily Buguloidea (∑)**Bugoloidea, n.i.  Bugulidae, *Bugula neritina* *Bugulina cf. flabellata* | **x**xxx | **x**xxx | **x**xxx | **x**xxx | **0.3**0.3xx | **yes**xyesx | **yes**xyesyes | xxbenben |
|  **Superfamily Calloporoidea (∑)** Calloporidae, *Cauloramphus* sp. Chaperiidae, *Chaperia* sp. Ellisinidae, *Ellisina* sp. Foveolariidae, *Odontionella* sp. | **X**xxxx | **x**xxxx | **5.9**yes5.9xx | **x**xxxx | **4.6**0.34.00.30.3 | **2.9**x2.9xx | **yes?**Yes?xxx | xbenbenbenben |
|  **Superfamiliy Hippothooidea**, Hippothoidae **(∑)** Hippothoidae, n.i.  *Celleporella hyalina* auctt./ *C*. *brongniartiana*\* | **x**xx | **x**xx | **yes**yesx | **yes**yesx | **7.5**7.20.3 | **1.4**1.4x | **0.2**0.2x | xbenben |
|  **Superfamily Lepralielloidea**, Exochellidae, *Exochella* sp.  | **x** | **x** | **yes** | **x** | **0.9** | **x** | **x** | ben |
|  **Superfamily Microporoidea**, Microporidae, *Andreella megapora* | **x** | **x** | **x** | **x** | **yes** | **x** | **x** | ben |
|  **Superfamily Schizoporelloidea (∑)** Schizoporelloidea, n.i.  Fenestrulinidae, *Fenestrulina* sp Hippaliosinidae, *Hippaliosina dorbignyana* Teuchoporidae, *Lagenicella variabilis* | **x**xxxx | **x**xxxx | **5.9**5.9yesxx | **13.3**13.3xxx | **2.3**1.70.30.3x | **5.8**1.41.41.41.4 | **x**xxxx | xxbenbenben |
| **Suborder Membraniporina, Superfamily Membraniporoidea (∑)** Electridae, n.i.  *Conopeum* sp. Membraniporidae, *Jellyella eburnea* *Membranipora* sp. | **93.0**xx93.0 x | **89.7**xx89.7 x | **yes**yesxxx | **yes**yesxxx | **37.9**1.40.3x36.1 | **10.1**xxx10.1 | **x**xxxx | xxbenpelben |
| **Class Stenolaemata** **– Order Cyclostomatida (∑)** | **x** | **x** | **x** | **x** | **0.8** | **x** | **x** |  |
| **Suborder Tubuliporina (∑)** Plagioeciidae, *Plagioecia* sp.Tubuliporidae, *Tubulipora* sp. | **x**xx | **x**xx | **x**xx | **x**xx | **0.8**0.30.6 | **x**xx | **x**xx | xbenben |
| **Suborder Rectangulata**, Lichenoporidae, *Disporella* sp. | x | x | x | x | **yes** | x | x | ben |
| **Phylum Cnidaria - Class Anthozoa** | **3.1** | **x** | **x** | **x** | **1.4** | **x** | **yes** |  |
| Order Actiniaria (∑) Actiniidae, *Anthopleura cf. hermaphroditica* | xx | xx | xx | xx | 1.40.3 | xx | yesx | xben |
|  *Phymactis papillosa* | x | x | x | x | 1.2 | x | x | ben |
|  Sagartiidae, *Paranthus niveus* | x | x | x | x | yes | x | x | ben |
| Order Scleractinia, Pocilloporidae, *Pocillopora* sp. | 3.1 | x | x | x | x | x | x | ben |
| **Phylum Cnidaria - Class Hydrozoa** | **9.3** | **5.1** | **35.3** | **20.0** | **18.7** | **14.5** | **0.4** |  |
| Hydrozoa, n.i.  | 9.3 | 5.1 | 35.3 | 20.0 | 18.7 | 14.5 | 0.4 | x |
| Order Leptothecata, n.i.  | x | x | x | x | 1.4 | x | x | x |
|  Plumulariidae, *Plumularia setacea* | x | x | (yes?) | (yes?) | x | x | (yes?) | ben |
|  Sertulariidae n.i.  | x | x | (yes) | (yes) | x | (yes) | (yes) | x |
|  *Amphisbetia operculata* | x | x | (yes) | (yes) | x | x | x | ben |
|  *Sertularella* sp. | x | x | x | x | (yes) | x | x | ben |
| **Phylum Nematoda** | x | x | x | yes | x | x | x |  |
| **Phylum Mollusca - Class Bivalvia** | **0.8** | x | **17.6** | **6.7** | **6.1** | **40.6** | **99.1** |  |
| Order Mytilida, Mytilidae, n.i. Order Ostreida, Ostreidae, n.i.  | x0.8 | xx | 17.6x | 6.7x | 6.1x | 40.6x | 99.1x | benben |
| **Phylum Mollusca - Class Gastropoda** | x | x | **5.9** | **6.7** | **2.0** | **2.9** | **x** |  |
| Nudibranchia (∑) egg masses, n.i.  | xx | xx | 5.95.9 | xx | 0.90.9 | xx | xx | xx |
|  Fionidae, *Fiona pinnata* | x | x | 5.9 | x | x | x | x | pel |
| Littorinimorpha, Calyptraeidae, *Trochita trochiformis* | x | x | x | x | 0.3**#** | **2.9** | x | ben |
| Siphonariida, Siphonariidae, S*iphonaria lessonii* | x | x | x | x | 0.3 | x | x | ben |
| Lottiidae, *Scurria* sp. / *Scurria variabilis* | x | x | x | x | 0.3 | x | x | ben |
|  *Lottia orbignyi* | x | x | x | x | 0.3 | x | x | ben |
| Gastropoda, n.i.  | x | x | x | 6.7 | x | x | x | x |
| **Phylum Annelida - Class Polychaeta** | **0.8** | **10.3** | **11.8** | **12.5** | **10.4** | **8.7** | **0.6** |  |
| Polychaeta, n.i.  | x | x | yes | yes | 1.4 | x | x | x |
| Subclass Sedentaria, Order Sabellida (∑) Serpulidae, Spirorbinae  | 0.80.8 | 10.310.3 | 5.95.9 | 20.020.0 | 9.28.1 | 8.78.7 | yesyes | xben |
|  Serpulidae, not Spirorbinae | x | 5.1 | x | x | 0.3 | x | yes | ben |
|  Sabellidae | x | x | x | x | x | x | yes | ben |
|  Sabellariidae | x | x | yes | x | 0.9 | yes | 0.2# | ben |
| Subclass Errantia (∑) Order Phyllodocida, Nereididae, n.i., possibly *Platynereis australis* Phyllodocidae, n.i.  Polinoidae, *Harmothoe* sp? | xxxx | xxxx | 5.9#5.9#xx | xxxx | 0.3xxx | xxxx | 0.4yesyesyes | xbenbenben |
| Order Spionida, Spionidae, n.i.  | x | x | x | x | 0.3 | x | x | ben |
| **Phylum Arthropoda - Class Malacostraca** | x | x | 5.9 | x | **1.4** | **4.3** | yes |  |
| Order Isopoda, Sphaeromatidae | x | x | 5.9 | x | x | x | x | x |
| Order Amphipoda, Caprellidae, *Deutella venenosa* | x | x | x | x | yes | x | yes | ben |
|  *Caprella penantis f. gibbosa* sensu Mayer | x | x | x | x | yes | x | yes | ben |
|  Ischyroceridae, *Jassa cf. marmorata* | x | x | x | x | yes | x | x | ben |
|  Stenothoidae, *Stenothoe* sp. | x | x | x | x | yes | x | x | ben |
| Order Decapoda, Infraorder Brachyura, n.i.  | x | x | x | x | 1.2 | 2.9 | yes | x |
|  Porcellanidae, n.i. | x | x | x | x | 0.3 | 1.4 | x | x |
| **Phylum Arthropoda – Class Pycnogonida** | **x** | **x** | **x** | **x** | **x** | **x** | **yes** |  |
| **Phylum Arthropoda - Class Thecostraca** | **7.0** | **2.6** | **10.0** | **31.3** | **48.1** | **40.6** | **2.2** |  |
| **Order Balanomorpha (∑)**Balanomorpha, n.i.  | **x**x | **x**x | **3.3**3.3 | **6.3**x | **15.9**5.2 | **15.9**x | **2.2**yes | xx |
| Balanidae, n.i. | x | x | x | 6.3 | 5.2 | 2.9 | 0.2 | x |
|  *Balanus laevis* | x | x | x | x | 4.6 | 7.2 | 2.2 | ben |
|  *Austromegabalanus psittacus* | x | x | x | x | x | 1.4 | yes | ben |
|  *Notobalanus flosculus* | x | x | x | x | 0.6 | x | yes | ben |
| Chthamalidae, n.i.  | x | x | x | x | 1.2 | 1.4 | x | x |
|  *Notochthamalus scabrosus* | x | x | yes | x | 2.9 | 1.4 | x | ben |
| **Order Verrucomorpha**, Verrucidae, *Verruca laevigata* | **x** | **x** | **x** | **yes** | **2.6** | **2.9** | **yes** | ben |
| **Order Scalpellomorpha**, Lepadidae **(∑)** *Lepas*, n.i.  | **7.0**5.4 | **2.6**2.6 | **11.8**5.9 | **26.7**6.7 | **19.3**6.6 | **13.0**8.7 | **yes**yes | xpel |
|  *Lepas anatifera* | 1.6 | x | x | x | x | x | x | pel |
|  *Lepas pectinata* | x | x | 5.9 | 20.0 | 12.1 | 4.3 | yes | pel |
|  *Lepas australis* | x | x | yes | 6.7 | 1.2 | x | x | pel |
| **Phylum Chordata - Class Ascidiacea** | **x** | **x** | **x** | **x** | **x** | **x** | **yes** |  |
| Order Stolidobranchia, Pyuridae, *Pyura chilensis* | x | x | x | x | x | x | yes | ben |
| Order Phlebobranchia, Cionidae, *Ciona robusta* | x | x | x | x | x | x | yes | ben |
| Colonial ascidian, ni | x | x | x | x | x | x | yes | x |
| **Encrusting, calcareous structures (bacteria?)** | 1.6 | 10.3 | x | yes? | yes | x | x |  |
| **∑ taxa per beach** | **7** | **6** | **16** | **14** | **43** | **19** | **27** |  |
| **Species richness (∑ taxa \* item-1)** | **1.2****±0.4** | **1.2****±0.6** | **1.4****±0.9** | **1.4****±0.8** | **1.7****±1.3** | **1.5****±0.9** | **1.1****±0.9** |  |