

1 SUPPLEMENTARY TABLES AND FIGURES

1.1 Tables

Table S1. List of species belonging to large and small epifauna collected in the studied samples

Phylum	Order	Family	Species
Annelida	Enchytraeida	Enchytraeidae	<i>Grania</i> sp.
Annelida	Tubificida	Tubificidae	Naididae (ex Tubificidae)
Annelida	Phyllodocida	Nereididae	<i>Alitta virens</i>
Annelida	Terebellida	Ampharetidae	Ampharetidae sp1
Annelida	Terebellida	Pectinariidae	<i>Lagis koreni</i>
Annelida	Spionida	Spionidae	<i>Laonice cf. bahusiensis</i>
Annelida	Scolecida	Capitellidae	<i>Capitella capitata</i>
Annelida	Scolecida	Capitellidae	Capitellidae sp1
Annelida	Terebellida	Cirratulidae	<i>Chaetozone setosa</i>
Annelida	Phyllodocida	Phyllodocidae	<i>Eulalia bilineata</i>
Annelida	Phyllodocida	Syllidae	<i>Exogone naidina</i>
Annelida	Terebellida	Terebellidae	<i>Eupolymnia nebulosa</i>
Annelida	Phyllodocida	Nereididae	<i>Hediste diversicolor</i>
Annelida	Phyllodocida	Nereididae	<i>Platynereis dumerilii</i>
Annelida	Spionida	Spionidae	<i>Malacoceros fuliginosus</i>
Annelida	Phyllodocida	Nepthyidae	<i>Nephtys hombergii</i>
Annelida	Phyllodocida	Hesionidae	<i>Nereimyra punctata</i>
Annelida	Spionida	Spionidae	<i>Pygospio elegans</i>
Annelida	Scolecida	Opheliidae	<i>Polyophtalmus pictus</i>
Annelida	Phyllodocida	Hesionidae	<i>Psamathe fusca</i>
Annelida	Spionida	Spionidae	<i>Pseudopolydora antennata</i>
Annelida	Phyllodocida	Phyllodocidae	<i>Pseudomystides limbata</i>
Annelida	Phyllodocida	Polynoidae	<i>Harmothoe glabra</i>
Annelida	Scolecida	Orbiniidae	<i>Orbinia latreillii</i>
Annelida	Sabellida	Sabellidae	<i>Fabricia stellaris</i>
Annelida	Phyllodocida	Nereididae	<i>Hediste diversicolor</i>
Annelida	Scolecida	Orbiniidae	<i>Scoloplos armiger</i>
Annelida	Phyllodocida	Syllidae	<i>Sphaerosyllis</i> sp.
Annelida	Phyllodocida	Syllidae	<i>Sphaerosyllis hystrix capensis</i>
Annelida	Phyllodocida	Syllidae	<i>Syllis cornuta</i>
Chelicerata	Arachnida	Acari	Halacaridae sp1
Cnidaria	Actiniaria	Sagartiidae	<i>Sagartia viduata</i>
Arthropoda	Mysida	Mysidae	<i>Anchialina agilis</i>
Arthropoda	Decapoda	Alpheidae	<i>Athanas nitescens</i>
Arthropoda	Copepoda	Calanoidae	Calanoida sp1
Arthropoda	Decapoda	Paguridae	<i>Cestopagurus timidus</i>
Arthropoda	Amphipoda	Dexaminidae	<i>Dexamine spinosa</i>
Arthropoda	Amphipoda	Ischyroceridae	<i>Erichthonius difformis</i>
Arthropoda	Copepoda	Harpacticoidae	Harpacticoid sp1
Arthropoda	Isopoda	Idoteidae	<i>Idotea pelagica</i>
Arthropoda	Amphipoda	Corophiidae	<i>Monocorophium insidiosum</i>
Arthropoda	Amphipoda	Gammaridae	<i>Gammarus locusta</i>
Arthropoda	Amphipoda	Photidae	<i>Gammaropsis maculata</i>
Arthropoda	Decapoda	Inachidae	<i>Macropodia linarensi</i>
Arthropoda	Amphipoda	Aoridae	<i>Microdeutopus gryllotalpa</i>
Arthropoda	Ostracoda	Ostracoda	Ostracoda sp1
Arthropoda	Malacostraca	Palaemonidae	<i>Palameon adspersus</i>
Arthropoda	Amphipoda	Caprellidae	<i>Phtisica marina</i>
Arthropoda	Amphipoda	Stenothoidae	<i>Stenothoe monoculoides</i>
Arthropoda	Chironomida	Chironomidae	Chironomid larvae
Echinodermata	Forcipulatida	Asteriidae	<i>Asterias rubens</i>
Echinodermata	Cammarodonta	Parechinidae	<i>Paracentrotus lividus</i>

Table S1. List of species belonging to large and small epifauna collected in the studied samples (*Continuación*)

Phylum	Order	Family	Species
Chordata	Actinopteri	Teleostei	<i>Gobius niger</i>
Chordata	Actinopteri	Teleostei	<i>Syngnathus acus</i>
Chordata	Actinopteri	Teleostei	<i>Syngnathus typhle</i>
Mollusca	Cardiida	Semelidae	<i>Abra alba</i>
Mollusca	Cardiida	Cardiidae	<i>Cerastoderma edule</i>
Mollusca	Littorinimorpha	Hydrobiidae	<i>Hydrobia acuta neglecta</i>
Mollusca	Littorinimorpha	Littorinidae	<i>Lacuna vincta</i>
Mollusca	Polyplacophora	Tonicellidae	<i>Lepidochitona cinerea</i>
Mollusca	Myida	Mytilidae	<i>Musculus subpictus</i>
Mollusca	Myida	Myidae	<i>Mya arenaria</i>
Mollusca	Mytilida	Mytilidae	<i>Mytilus edulis</i>
Mollusca	Neogastropoda	Nassariidae	<i>Nassarius nitidus</i>
Mollusca	Nudibranchia	Nudibranchia	Nudibranchia sp1
Mollusca	Nudibranchia	Nudibranchia	Nudibranchia sp2
Mollusca	Cardiida	Cardiidae	<i>Parvicardium pinnulatum</i>
Mollusca	Littorinimorpha	Rissoidae	<i>Pusillina sarsii</i>
Mollusca	Cephalaspidea	Retusidae	<i>Retusa truncatula</i>
Mollusca	Venerida	Mactridae	<i>Spisula subtruncata</i>
Nemertea	Nemertea	Nemertea	Nemertea sp1
Nematoda	Enoplida	Oncholaimidae	Oncholaimidae sp1
Nematoda	Chromadorida	Chromadoridae	Chromadoridae sp1
Platyhelminthes	Polycladida	Polycladida	Polycladida sp1

Table S2. List of infaunal species collected in the studied samples

Phylum	Order	Family	Species
Platyhelminthes	Polycladida	Polycladida	Polycladida sp1
Annelida	Phyllodocida	Nereididae	<i>Alitta virens</i>
Annelida	Scolecida	Arenicolidae	<i>Arenicola marina</i>
Annelida	Scolecida	Capitellidae	<i>Capitella capitata</i>
Annelida	Terebellida	Cirratulidae	<i>Chaetozone setosa</i>
Annelida	Phyllodocida	Phyllodocidae	<i>Hypereteone foliosa</i>
Annelida	Phyllodocida	Phyllodocidae	<i>Eteone longa</i>
Annelida	Sabellida	Sabellidae	<i>Fabricia stellaris</i>
Annelida	Phyllodocida	Glyceridae	<i>Glycera</i> sp.
Annelida	Phyllodocida	Polynoidae	<i>Harmothoe glabra</i>
Annelida	Phyllodocida	Nereididae	<i>Hediste diversicolor</i>
Annelida	Phyllodocida	Polynoidae	<i>Lepidonotus squamatus</i>
Annelida	Spionida	Spionidae	<i>Malacoceros fuliginosus</i>
Annelida	Phyllodocida	Nephtyidae	<i>Nephtys hombergii</i>
Annelida	Phyllodocida	Hesionidae	<i>Nereimyra punctata</i>
Annelida	Phyllodocida	Nereididae	<i>Nereis zonata</i>
Annelida	Terebellida	Pectinariidae	<i>Lagis koreni</i>
Annelida	Scolecida	Orbiniidae	<i>Orbinia latreillii</i>
Annelida	Phyllodocida	Phyllodocidae	<i>Phyllodoce maculata</i>
Annelida	Phyllodocida	Nereididae	<i>Platynereis dumerilii</i>
Annelida	Scolecida	Opheliidae	<i>Polyophthalmus pictus</i>
Annelida	Spionida	Spionidae	<i>Pseudopolydora antennata</i>
Annelida	Phyllodocida	Phyllodocidae	<i>Pseudomystides limbata</i>
Annelida	Scolecida	Orbiniidae	<i>Scoloplos armiger</i>
Annelida	Spionida	Spionidae	<i>Spiophanes bombyx</i>
Annelida	Enchytraeida	Enchytraeidae	<i>Grania</i> sp.
Annelida	Tubificida	Tubificidae	Naididae (ex Tubificidae)
Mollusca	Cardiida	Semellidae	<i>Abra alba</i>
Mollusca	Cardiida	Cardiidae	<i>Acanthocardia aculeata</i>
Mollusca	Cardiida	Cardiidae	<i>Cerastoderma edule</i>
Mollusca	Polyplacophora	Tonicellidae	<i>Lepidochitona cinerea</i>
Mollusca	Littorinimoprha	Littorinidae	<i>Littorina littorea</i>
Mollusca	Myida	Mytilidae	<i>Musculus discors</i>
Mollusca	Myida	Myidae	<i>Mya arenaria</i>
Mollusca	Mytilida	Mytilidae	<i>Mytilus edulis</i>
Mollusca	Gastropoda	Nudibranchia	Nudibranchia sp1
Mollusca	Cardiida	Cardiidae	<i>Parvicardium pinnulatum</i>
Mollusca	Venerida	Mactridae	<i>Spisula subtruncata</i>
Arthropoda	Amphipoda	Corophiidae	<i>Corophium volutator</i>
Arthropoda	Amphipoda	Ischyroceridae	<i>Erichthonius brasiliensis</i>
Arthropoda	Amphipoda	Ischyroceridae	<i>Erichthonius difformis</i>
Arthropoda	Amphipoda	Ischyroceridae	<i>Erichthonius punctatus</i>
Arthropoda	Amphipoda	Photidae	<i>Gammaropsis maculata</i>
Arthropoda	Amphipoda	Gammaridae	<i>Gammarus locusta</i>
Arthropoda	Amphipoda	Aoridae	<i>Microdeutopus gryllotalpa</i>
Arthropoda	Amphipoda	Stenothoidae	<i>Stenothoe monoculoides</i>
Arthropoda	Malacostraca	Palaemonidae	<i>Palaemon adspersus</i>
Arthropoda	Chironomida	Chironomidae	Chironomidae sp1
Echinodermata	Forcipulatida	Asteriidae	<i>Asterias rubens</i>
Nemertea	Nemertea	Nemertea	Nemertea sp1
Cnidaria	Cnidaria	Cnidaria	Cnidaria sp1
Chordata	Gobiiformes	Gobiidae	<i>Pomatoschistus minutus</i>