

Community structure of benthic macroinvertebrates inhabiting a highly stratified Mediterranean estuary

ALFONSO NEBRA, NUNO CAIOLA and CARLES IBÁÑEZ

Supplementary material

APPENDIX 1. – List of the identified taxa that were found at all the stations over the entire study period. The stations where each taxon was found are also listed. See Figure 1 for sampling station codes; FG, feeding guild (see Table 2 for feeding guild codes); CI, Constancy index; Ct, constant; VC, very common; C, common; UC, uncommon; R, rare.

Taxa	Summer	Autumn	Winter	Spring	FG	CI	CI UE	CI LE
PHYLUM CNIDARIA								
Class Anthozoa								
<i>Diadumene</i> sp.	LE9				Pr	R		UC
PHYLUM PLATYHELMINTHES								
Class Turbellaria								
<i>Dugesia</i> sp.	UE2	UE2		UE2	Pr	R	UC	
Turbellaria indet.		UE2	UE1		Pr	UC	C	
PHYLUM NEMERTINA								
Class Enopla								
Nemertina indet.		LE6,7,9	LE5,6,7,8,9	LE6,7,8,9	Pr	VC		Ct
<i>Prostoma graecense</i> (Böhmgig, 1892)		UE2	UE1,2,4	UE2	Pr	C	VC	
PHYLUM NEMATODA								
Nematoda indet.	UE1,2,3	LE9	UE1,2; LE9	UE1	Pa	C	VC	UC
PHYLUM MOLLUSCA								
Class Gastropoda								
Aplysiidae indet.	LE9	LE8			G	UC		C
<i>Bittium reticulatum</i> (da Costa, 1778)		LE8,9	LE7,8,9	LE7,8,9	DF	C		VC
<i>Buccinum</i> sp.	LE9				O	R		UC
<i>Chrysallida</i> sp.		LE6,7,8,9	LE5,6,7,8,9	LE5,7,8,9	Pa	VC		Ct
<i>Eulimella polita</i> (Verrill, 1872)		LE9			Pa	R		UC
<i>Ferrissia clessiniana</i> (Jickeli, 1882)	UE2	UE2		UE2	G	R	UC	
<i>Gyraulus albus</i> (Müller, 1774)				UE1,2,4	G	C	VC	
<i>Haminoea navicula</i> (da Costa, 1778)			LE6,7		G	UC		C
<i>Hinia limata</i> (Chemnitz, 1795)	LE9	LE9		LE9	Pr	R		UC
<i>Hydrobia</i> sp.	LE7		LE5	LE7	G	UC		C
<i>Hydrobia ulvae</i> (Pennant, 1777)			LE7		O	R		UC
<i>Mangelia</i> sp.		LE9			G	R		UC
<i>Melanella polita</i> (Linnaeus, 1758)			LE9		Pa	R		UC
<i>Nassarius mutabilis</i> (Linnaeus, 1758)		LE9	LE9		O	R		UC
<i>Nassarius pygmaeus</i> (Lamarck, 1822)	LE7,8,9	LE9			O	C		VC
<i>Nassarius</i> sp.		LE7,9			O	UC		C
<i>Neverita josephina</i> Risso, 1826	LE9	LE9			Pr	R		UC
<i>Odostomia conoidea</i> (Brocchi, 1814)				LE8	Pa	R		UC
<i>Odostomia</i> sp.		LE9			Pa	R		UC
<i>Physella acuta</i> (Draparnaud, 1805)	UE2	UE1,2	UE1,2	UE1,2	G	UC	C	
<i>Radix auricularia</i> (Linnaeus, 1758)			UE2		G	R	UC	
<i>Radix peregra</i> (Müller, 1774)	UE2		UE1	UE2	G	UC	C	
<i>Retusa truncatula</i> (Bruguère, 1792)	LE8	LE9	LE7	LE6,7,8	Pr	C		Ct
<i>Rissoa</i> sp.		LE9	LE9		G	R		UC
<i>Rissoa ventricosa</i> Desmarest, 1814				LE8	G	R		UC
<i>Tricolia</i> sp.		LE8			G	R		UC
<i>Turbonilla lactea</i> (Linnaeus, 1758)		LE9	LE7	LE7	Pa	UC		C
<i>Turritella</i> sp.		LE9			SF	R		UC
Class Bivalvia								
<i>Abra alba</i> (Wood, 1802)	LE9	LE5,7,8,9	LE7,8,9	LE7,8,9	SF	C		Ct
<i>Abra nitida</i> (Müller, 1776)		LE9	LE9	LE8	SF	UC		C
<i>Acanthocardia echinata</i> (Linnaeus, 1758)		LE7,8,9			SF	C		VC
<i>Acanthocardia paucicostata</i> (Sowerby, 1841)	LE8	LE6,7	LE7,8,9	LE7,8	SF	C		Ct
<i>Acanthocardia tuberculata</i> (Linnaeus, 1758)				LE9	SF	R		UC
<i>Cerastoderma edule</i> (Linnaeus, 1758)				LE8	SF	R		UC
<i>Cerastoderma glaucum</i> (Poiret, 1789)		LE8	LE5,7		SF	C		VC
<i>Circomphalus casina</i> (Linnaeus, 1758)	LE7	LE8	LE8		SF	UC		C
<i>Corbicula fluminea</i> (Müller, 1774)	UE1,2,3,4	UE1,2,3,4	UE1,2,3,4	UE1,2,3	SF	C	Ct	
<i>Corbula gibba</i> (Olivi, 1792)	LE7,9	LE5,6,7,8,9	LE5,6,7,8,9	LE5,6,7,8	SF	VC		Ct
<i>Donax semistriatus</i> Poli, 1795	LE9	LE9			SF	R		UC
<i>Donax</i> sp.		LE9			SF	R		UC
<i>Donax trunculus</i> Linnaeus, 1758	LE7				SF	R		UC
<i>Donax venustus</i> Poli, 1795		LE8			SF	R		UC
<i>Dosinia lupinus</i> (Linnaeus, 1758)		LE8,9	LE7,8,9	LE8,9	SF	C		VC
<i>Gari fervensis</i> (Gmelin, 1791)		LE9			SF	R		UC
<i>Gastrana fragilis</i> (Linnaeus, 1758)			LE9		SF	R		UC
<i>Glycymeris glycymeris</i> (Linnaeus, 1758)		LE9			SF	R		UC
<i>Laevicardium crassum</i> (Gmelin, 1791)		LE8			SF	R		UC
<i>Lutraria lutraria</i> (Linnaeus, 1758)	LE9				SF	R		UC
<i>Mactra corallina</i> (Linnaeus, 1758)	LE7,9	LE7,8			SF	C		VC
<i>Mactra</i> sp.		LE9	LE9		SF	R		UC
<i>Musculus discors</i> (Linnaeus, 1767)	LE7,8	LE7,9	LE5,7	LE6,7,8	SF	VC		Ct
<i>Mytilus galloprovincialis</i> Lamarck, 1819				LE8	SF	R		UC
<i>Pandora inaequalis</i> (Linnaeus, 1758)	LE7,8	LE7,8,9	LE8,9	LE7	SF	C		VC
<i>Pharus legumen</i> (Linnaeus, 1758)		LE9		LE9	SF	R		UC

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Taxa	Summer	Autumn	Winter	Spring	FG	CI	CI UE	CI LE
<i>Pitar rudis</i> (Poli, 1795)		LE8	LE8		SF	R		UC
<i>Scrobicularia plana</i> (da Costa, 1778)	LE9			LE8	SF	UC		C
<i>Solemya togata</i> (Poli, 1795)			LE9		SF	R		UC
<i>Solen</i> sp.		LE9	LE5		SF	UC		C
<i>Spisula subtruncata</i> (da Costa, 1778)	LE8,9	LE9	LE7	LE7,8,9	SF	C		VC
<i>Tapes philippinarum</i> (Adams and Reeve, 1850)			LE7	LE7	SF	R		UC
<i>Tapes pullastra</i> (Unspecified)	LE7	LE7,8			SF	UC		C
<i>Tapes</i> sp.		LE8,9	LE6,7,8,9	LE7,8,9	SF	C		Ct
<i>Tellina albicans</i> (Gmelin, 1791)		LE8,9	LE7,9	LE7	SF	C		VC
<i>Tellina</i> sp.		LE8,9	LE7,9	LE6,9	SF	C		Ct
<i>Tellina tenuis</i> da Costa, 1778		LE9	LE5,8,9	LE7	SF	C		Ct
Class Scaphopoda								
<i>Antalis novemcostata</i> (Lamarck, 1818)				LE8	Pr	R		UC
<i>Antalis</i> sp.		LE8,9	LE9	LE7,8	Pr	C		VC
PHYLUM ANNELIDA								
Class Hirudinea								
<i>Helobdella stagnalis</i> (Linnaeus, 1758)	UE2				Pr	R	UC	
<i>Piscicola geometra</i> (Linnaeus, 1758)	UE2				Pa	R	UC	
Class Oligochaeta								
Haplotaxidae indet.			UE3		DF	R	UC	
Lumbricidae indet.	UE2			UE1	DF	UC	C	
Naididae indet.	UE1,2	UE1,2,3	UE1,2,4; LE5	UE1,2,3,4	DF	VC	Ct	UC
Tubificidae indet.	UE1,2,3; LE5	UE1,2,3,4	UE1,2,3	UE1,2,3	DF	VC	Ct	UC
Class Polychaeta								
<i>Ampharete grubei</i> Malmgren, 1865	LE6,7,8	LE6,7,8,9	LE6,7,8,9	LE6,7,8	DF	C		Ct
<i>Aricidea</i> sp.	LE8,9	LE6,7,8,9	LE7,8,9	LE6,7,8,9	DF	VC		Ct
<i>Armandia cirrhosa</i> Filippi, 1861	LE6,7,8	LE5,6,7,9	LE5,6,7,9	LE7,8	DF	VC		Ct
<i>Capitella capitata</i> (Fabricius, 1780)	LE6		LE5,6,7,8,9	LE6,8,9	DF	VC		Ct
Capitellidae indet.	LE8	LE7			DF	UC		C
<i>Cauterella zetlandica</i> (McIntosh, 1911)	LE8	LE6,7,8,9	LE6,7,8,9	LE6,7,8,9	DF	C		Ct
<i>Cirratulus cirratus</i> (Müller, 1776)			LE7,8,9	LE7,9	DF	C		VC
<i>Clymenura clypeata</i> (Saint-Joseph, 1894)			LE7	LE7,8	DF	UC		C
<i>Diopatra neapolitana</i> Delle Chiaje, 1841			LE8,9	LE7,9	DF	C		VC
<i>Eteone picta</i> Quatrefagues, 1865		LE6,7,9	LE7,9	LE7	Pr	C		VC
<i>Euclymene oerstedii</i> (Claparède, 1863)			LE7,8,9	LE6,7,8	DF	C		Ct
<i>Eunice harassii</i> Audouin & Edwards, 1834		LE8,9	LE7		DF	C		VC
<i>Ficopomatus enigmaticus</i> (Fauvel, 1923)	LE6				SF	R		UC
<i>Glycera</i> sp.		LE6,9	LE6,7,8,9	LE6,7,8,9	Pr	C		Ct
<i>Glycera tessellata</i> Grube, 1840				LE9	Pr	R		UC
<i>Glycera tridactyla</i> Schmarda, 1861	LE8,9	LE6,7			Pr	C		Ct
<i>Harmothoe</i> sp.		LE6,9	LE7,8,9		Pr	C		Ct
<i>Hediste diversicolor</i> (Müller, 1776)	LE7,8	LE6,7,8	LE7,8	LE5,6,7,8	O	C		Ct
<i>Heteromastus filiformis</i> (Claparède, 1864)		LE5,6	LE7,8,9	LE6,7,8,9	DF	VC		Ct
<i>Hydroides norvegicus</i> Gunnerus, 1768		LE7			SF	R		UC
<i>Lagis koreni</i> Malmgren, 1866	LE9		LE6,9		DF	UC		C
<i>Laonice cirrata</i> (Sars, 1851)			LE8,9		DF	UC		C
<i>Lepidonotus squamatus</i> (Linnaeus, 1758)			LE7,9	LE8	Pr	C		VC
<i>Lumbrineris</i> sp.		LE7,8,9	LE6,7,8	LE7,8	Pr	C		Ct
<i>Magelona papillicornis</i> Müller, 1858		LE9		LE7,9	DF	UC		C
<i>Melinna palmata</i> Grube, 1870		LE6,7,8,9	LE5,7,8,9	LE6,7,8	DF	VC		Ct
<i>Micronephthys maryae</i> San Martín, 1982	LE7	LE7,8,9	LE7,8,9	LE6,7,8,9	Pr	C		Ct
<i>Neosabellides oceanica</i> (Fauvel, 1909)			LE6,7,8	LE7	DF	C		VC
<i>Nephtys assimilis</i> Örsted, 1843				LE9	Pr	R		UC
<i>Nephtys cirrosa</i> (Ehlers, 1868)	LE9				Pr	R		UC
<i>Nephtys hombergii</i> Lamarck, 1818			LE9		Pr	R		UC
<i>Nephtys</i> sp.				LE6,8	Pr	UC		C
Nereididae indet.			UE4; LE6,7	UE4	DF	C	UC	C
<i>Notomastus</i> sp.		LE9	LE7,8,9		DF	C		VC
<i>Oriopsis armandi</i> (Claparède, 1864)	LE7,8,9	LE5,7,9	LE5,6,9	UE4; LE5,8	SF	VC	UC	Ct
<i>Paradoneis lyra</i> (Southern, 1914)		LE7,9	LE6,7,8,9	LE7,8,9	DF	C		Ct
<i>Perinereis cultrifera</i> (Grube, 1840)	LE5,6	UE4	LE6	UE4; LE8	O	VC	UC	VC
<i>Phyllodoce mucosa</i> Örsted, 1843	LE9	LE9	LE9		Pr	R		UC
<i>Phylo foetida</i> (Claparède, 1869)			LE8	LE7	DF	UC		C
<i>Pista cristata</i> (Müller, 1776)	LE7,8	LE6,7,8,9	LE7,8,9	LE7,8	DF	C		Ct
<i>Prionospio malmgreni</i> Claparède, 1869		LE7,8,9	LE7,8,9	LE7,8,9	DF	C		VC
<i>Pseudopolydora antennata</i> (Claparède, 1869)	LE7,8	LE5,6,9	LE5,6,7,8,9	LE6,7,8,9	DF	VC		Ct
<i>Sabella pavonina</i> Savigny, 1822			LE8	LE7,8	SF	UC		C
Sabellidae indet.	LE6		LE8,9	LE6	SF	C		VC
<i>Serpula vermicularis</i> Linnaeus, 1767		LE5,6,7,8	LE7		SF	C		Ct
<i>Sigambra parva</i> (Day, 1963)		LE9	LE7,8,9	LE7,8	Pr	C		VC

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Taxa	Summer	Autumn	Winter	Spring	FG	CI	CI UE	CI LE
<i>Spio filicornis</i> (Müller, 1776)	LE8	LE5,6,7,9	LE5,6,7,8,9	LE6,7,8,9	DF	VC		Ct
<i>Streblospio benedicti</i> Webster, 1879	LE7,8,9	LE5,6,7,8,9	LE5,6,7,8,9	LE5,6,8,9	DF	VC		Ct
<i>Syllidia armata</i> Quatrefages, 1866			LE6,7,8,9	LE6,7,8,9	Pr	C		Ct
PHYLUM ARTHROPODA								
Class Arachnida								
Acaridida indet.			UE1		Pr	R	UC	
Halacaridae indet.				UE3	Pr	R	UC	
<i>Hydrozetes</i> sp.		UE2			Pr	R	UC	
<i>Lebertia</i> sp.	UE2	UE2,4			Pr	UC	C	
<i>Sperchon</i> sp.		UE2		UE2	Pr	R	UC	
<i>Torrenticola</i> sp.		UE2,3	UE3		Pr	UC	C	
Class Pantopoda								
<i>Nymphon gracile</i> Leach, 1814				LE7	O	R		UC
Class Branchiopoda								
<i>Daphnia longispina</i> (Müller, 1776)	LE5				G	R		UC
<i>Eurycerus lamellatus</i> (Müller, 1776)				UE1	G	R	UC	
<i>Ilyocryptus sordidus</i> (Liévin, 1848)			UE1		G	R	UC	
<i>Simocephalus exspinosus</i> (Koch, 1841)		UE1			G	R	UC	
<i>Simocephalus vetulus</i> (Müller, 1776)				UE1	G	R	UC	
Class Ostracoda								
<i>Cyprideis torosa</i> (Jones, 1850)			LE7	LE8	DF	UC		C
<i>Fabaeformiscandona fabaeformis</i> (Fischer, 1851)		UE2	UE1,2	UE1,4	DF	C	VC	
<i>Herpetocypris brevicaudata</i> (Kaufmann, 1900)		UE3			DF	R	UC	
<i>Herpetocypris</i> sp.		UE4			DF	R	UC	
Class Copepoda								
<i>Acanthocyclops latipes</i> (Lowndes, 1927)			UE1		SF	R	UC	
<i>Canuella furcigera</i> Sars, 1903			LE7		SF	R		UC
<i>Centropages chierchae</i> Giesbrecht, 1889			LE6		SF	R		UC
<i>Cyclops</i> sp.				UE1,3	SF	UC	C	
<i>Eucyclops serrulatus</i> (Fischer, 1851)			UE1		SF	R	UC	
<i>Macrocyclus albidus</i> (Jurine, 1820)		UE1,2	UE1	UE1	SF	UC	C	
Class Malacostraca								
<i>Ampelisca brevicornis</i> (Costa, 1853)			LE9		SF	R		UC
<i>Ampelisca</i> sp.			LE7		SF	R		UC
<i>Ampelisca typica</i> (Bate, 1856)	LE8,9	LE9	LE9		SF	UC		C
<i>Apeudes latreillii</i> (Milne-Edwards, 1828)	LE9	LE8,9			DF	UC		C
<i>Bathyporeia</i> sp.				LE9	DF	R		UC
<i>Bodotria arenosa</i> Goodsir, 1843				LE9	DF	R		UC
<i>Corophium orientale</i> Schellenberg, 1928	LE5,6,7,8,9	UE4; LE5,6,9	UE4; LE5,6	UE3,4; LE5,6	DF	Ct	C	Ct
<i>Corophium rotundirostre</i> Stephensen, 1915			LE7,8,9	LE7,8,9	DF	C		VC
<i>Cumopsis goodsir</i> (Van Beneden, 1861)		LE9			DF	R		UC
<i>Cyathura carinata</i> (Krøyer, 1847)	LE7		LE7,8	LE7,8	DF	UC		C
Decapoda indet.	LE9			LE7,9	O	UC		C
<i>Diastylis</i> sp.		LE8	LE8	LE6,7,8	DF	UC		C
<i>Echinogammarus longisetosus</i> Pinkster, 1973	UE1,3,4	UE4	UE2	UE2	O	C	Ct	
<i>Gammarus aequicauda</i> (Martyinov, 1931)				LE8	O	R		UC
<i>Iphinoe</i> sp.	LE9	LE9		LE7,8	DF	UC		UC
<i>Lembos</i> sp.					DF	R		UC
<i>Lembos spiniventris</i> (Stebbing, 1895)				LE7	DF	R		UC
<i>Leptocheirus pilosus</i> Zaddach, 1844	LE9		LE7	LE8	SF	C		VC
<i>Leucothoe incisa</i> (Robertson, 1892)	LE9		LE7,8	LE7,8	O	C		VC
<i>Liocarcinus corrugatus</i> (Pennant, 1777)			LE9		O	R		UC
<i>Medorippe lanata</i> (Linnaeus, 1767)			LE9		O	R		UC
<i>Microprotopus</i> sp.		LE9			O	R		UC
<i>Monoculodes acutipes</i> Ledoyer, 1983	LE9		LE8	LE6,7,8,9	O	C		Ct
<i>Pariambus typicus</i> (Krøyer, 1844)		LE8	LE8,9	LE6,7,8	O	C		Ct
<i>Perioculodes longimanus</i> (Bate & Westwood, 1868)				LE7,8	DF	UC		C
<i>Phtisica marina</i> Slabber, 1769			LE6,7	LE7,8	O	C		VC
<i>Praunus flexuosus</i> (Müller, 1776)	LE9				SF	R		UC
<i>Pseudocuma longicorne</i> (Bate, 1858)	LE8	LE9			DF	UC		C
<i>Sphaeroma serratum</i> (Fabricius, 1787)				LE8	O	R		UC
<i>Synchelidium haplocheles</i> (Grube, 1864)	LE7	UE4			DF	UC	UC	UC
<i>Synchelidium</i> sp.	LE8				DF	R		UC
<i>Upogebia pusilla</i> (Petagna, 1792)	LE9				SF	R		UC
<i>Upogebia</i> sp.		LE9			SF	R		UC
Class Euentomata								
<i>Baetis fuscatus</i> (Linnaeus, 1761)	UE2	UE2,3		UE2	DF	UC	C	
<i>Baetis pavidus</i> Grandi, 1949	LE7		LE6,7		DF	UC		C
<i>Caenis luctuosa</i> (Burmeister, 1839)	UE1,2,3	UE1,2	UE1,2	UE1,2	DF	C	VC	

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Taxa	Summer	Autumn	Winter	Spring	FG	CI	CI UE	CI LE
<i>Ceraclea dissimilis</i> (Stephens, 1836)				UE2	DF	R	UC	
<i>Ceraclea sobradieli</i> (Navás, 1917)	UE2			UE2	DF	R	UC	
Chironomus sp.	LE7,8	UE4	UE1	UE1,3; LE6	DF	VC	VC	VC
<i>Choroterpes picteti</i> (Eaton, 1871)	UE2				DF	R	UC	
<i>Coenagrion pulchellum</i> (Van der Linden, 1825)				UE1	Pr	R	UC	
Coenagrionidae indet.			UE1		Pr	R	UC	
<i>Drypos</i> sp.		UE1	UE1		G	R	UC	
<i>Enomus tenellus</i> (Rambur, 1842)	UE2	UE1,2	UE2	UE2	O	UC	C	
<i>Ephoron virgo</i> (Olivier, 1791)	UE1,2,3,4			UE2	SF	C	Ct	
<i>Hydropsyche exocellata</i> Dufour, 1841	UE2	UE2	LE5	UE2	SF	UC	UC	UC
<i>Hydroptila</i> sp.	UE2	UE2		UE2	G	R	UC	
<i>Mystacides azurea</i> (Linnaeus, 1761)	UE2				DF	R	UC	
<i>Orthotrichia angustella</i> (McLachlan, 1865)			UE2		G	R	UC	
<i>Pseudocloeon atrebatinus</i> Eaton, 1870	UE2	UE2	UE2		DF	R	UC	
<i>Psychomyia pusilla</i> (Fabricius, 1781)				UE2	DF	R	UC	
Sf. Orthoclaadiinae indet.	UE1,2; LE7	UE1,2,4	UE1,2,4; LE5,6,7	UE1,2; LE5,7,8	DF	Ct	VC	Ct
Sf. Tanypodinae indet.	UE1	UE1,2,3,4	UE1	UE1,2,3,4	Pr	C	Ct	
<i>Simulium erithrocephalum</i> (De Geer, 1776)	UE2		UE2		SF	R	UC	
Tr. Chironomini indet.	UE1	UE4	UE2	UE2	DF	C	VC	
Tr. Tanytarsini indet.	UE1,2	UE2,3	UE1,2	UE1,2,3	DF	C	VC	
<i>Trithemis annulata</i> (Palisot de Beauvois, 1807)		UE1			Pr	R	UC	
PHYLUM PHORONIDA								
Class Phoronida								
<i>Phoronis ovalis</i> Wright, 1856				LE6	SF	R		UC
<i>Phoronis psammophila</i> Cori, 1889		LE5,7,8,9	LE6,7,8	LE6,7,8	SF	VC		Ct
PHYLUM ECHINODERMATA								
Class Holothuroidea								
<i>Thyone</i> sp.			LE7	LE7,8	DF	UC		C
Class Ophiuroidea								
<i>Amphipholis squamata</i> (Delle Chiaje, 1828)	LE9	LE9	LE7,8	LE8	DF	C		VC
<i>Amphiura chiajei</i> Forbes, 1843			LE9	LE7	DF	UC		C
Class Echinoidea								
Fibulariidae indet.	LE9				DF	R		UC
<i>Echinocardium</i> sp.		LE9			DF	R		UC