

Supplementary material

Breakdown of percentage contributions from SIMPER analysis for comparisons between locations: R- Reference sites; S - Shallow MVs (Mr – Mercator; K – Kidd; Mk – Meknès); D - Deep MVs (CA – Captain Arutyunov; CR – Carlos Ribeiro; B – Bonjardim; P – Porto). The taxa listed are dominant (six dominant species in each site marked in bold) or contribute at least 1% for the average similarity within groups (AS) or for the average dissimilarity between groups (AD); ●: contributions lower than 1%.

TG: trophic guild: U: unknown; Ch: chemotroph; D: deposit feeder; sD: surface deposit feeder; ssD: sub-surface deposit feeder; G: grazer; S: suspension feeder; O: Omnivore; C: Carnivore.

		Density (ind.m ⁻²)								% Contribution						
		R	Mr	K	Mk	CA	CR	B	P	TG	R	S	D	R/S	R/D	S/D
											AS:	AS:	AS:	AD:	AD:	AD:
Total:		660.0	2004.0	834.0	1602.7	5316.0	280.0	792.0	628.0		20.1	27.6	12.8	81.4	92.8	87.8
Sipuncula																
	Sipuncula sp002	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	sD	-	●	-	●	-	●
	Sipuncula sp003	12.0	0.0	80.0	56.0	0.0	0.0	0.0	0.0	sD	●	2.5	-	1.3	●	1.3
	Sipuncula sp008	80.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	sD	●	●	-	●	●	●
Mollusca																
Heterodonta	<i>Thyasira vulcolutre</i>	0.0	0.0	0.0	0.0	60.0	4.0	0.0	0.0	Ch	-	-	1.2	-	●	●
	<i>Abra longicallus</i>	12.0	14.0	6.0	1.3	0.0	0.0	0.0	0.0	sD	●	1.5	-	●	●	●
	<i>Isorropodon megadesmus</i>	0.0	0.0	0.0	0.0	266.0	0.0	0.0	0.0	Ch	-	-	●	-	1.5	1.3

Protobranchia	<i>Malletia johnsoni</i>	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	ssD	-	-	•	-	•	•
	<i>Microgloma pusilla</i>	4.0	1.0	8.0	0.0	0.0	0.0	0.0	0.0	ssD	6.1	•	-	•	•	•
	<i>Microgloma tumidula</i>	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ssD	•	-	-	1.1	1.3	-
Caenogastropoda	Margenellidae sp001	0.0	59.0	0.0	0.0	0.0	0.0	0.0	0.0	Ca?	-	•	-	•	-	•
	<i>Obtusella intersecta</i>	0.0	0.0	0.0	0.0	108.0	0.0	0.0	0.0	sG?	-	-	•	-	1.0	•
Vetigastropoda	Vetigastropoda sp001	0.0	0.0	0.0	0.0	124.0	0.0	0.0	0.0	sG?	-	-	•	-	•	•
Caudofoveata	Caudofoveata und.	0.0	1.0	0.0	2.7	0.0	0.0	4.0	4.0	ssD	-	•	1.3	•	•	•
Annelida																
Oligochaeta	Oligochaeta und.	0.0	17.0	0.0	22.7	8.0	44.0	4.0	0.0	ssD	-	1.6	•	•	•	•
Aciculata	<i>Glycera lapidum</i>	0.0	15.0	2.0	21.3	48.0	4.0	0.0	0.0	C	-	2.5	2.6	•	•	•
	<i>Lumbrinerides laubieri</i>	2.0	15.0	0.0	5.3	0.0	0.0	0.0	0.0	O?	•	1.2	-	•	•	•
	Nereididae sp005	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	C/O	-	-	1.3	-	•	•
	<i>Paradiopatra hispanica</i>	6.0	14.0	24.0	17.3	16.0	0.0	4.0	0.0	C/O	-	5.0	•	•	•	•
	<i>Pholoides dorsipapillatus</i>	0.0	2.0	20.0	1.3	36.0	0.0	0.0	0.0	C	-	•	1.5	•	•	•
Canalipalata	Ampharetidae sp201	0.0	0.0	0.0	0.0	346.0	0.0	0.0	0.0	sD	-	-	•	-	1.6	1.3
	<i>Laubieriopsis cabiochi</i>	2.0	89.0	0.0	5.3	6.0	0.0	0.0	0.0	U	•	1.8	•	1.1	•	1.1
	<i>Polybrachia</i> spVc	0.0	0.0	0.0	0.0	0.0	0.0	160.0	0.0	Ch	-	-	•	-	1.0	•
	<i>Polybrachia</i> spBon	0.0	0.0	0.0	0.0	0.0	0.0	28.0	0.0	Ch	-	-	•	-	•	•
	<i>Siboglinum</i> spIb	4.0	160.0	6.0	0.0	0.0	0.0	4.0	0.0	Ch	•	•	•	1.2	•	1.1
	<i>Siboglinum</i> spIc	0.0	0.0	0.0	0.0	0.0	0.0	364.0	0.0	Ch	-	-	•	-	1.6	1.2

	<i>Siboglinum</i> spId	2.0	141.0	0.0	0.0	2284.0	0.0	0.0	0.0	Ch	•	•	1.5	1.2	3.5	3.4
	<i>Siboglinum</i> spIf	0.0	0.0	0.0	177.3	0.0	0.0	0.0	28.0	Ch	-	•	•	1.1	•	1.2
	<i>Siboglinum</i> spBon	0.0	0.0	0.0	0.0	0.0	0.0	28.0	0.0	Ch	-	-	•	-	•	•
	<i>Siboglinum</i> cf. <i>poseidoni</i>	0.0	0.0	0.0	0.0	1320.0	0.0	0.0	0.0	Ch	-	-	6.1	-	3.7	3.1
Scolecida	<i>Aricidea simonae</i>	12.0	4.0	0.0	0.0	4.0	0.0	0.0	0.0	sD	8.6	•	•	•	1.1	•
	Capitellidae sp005	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ssD	6.1	-	-	•	•	-
	<i>Leitoscoloplos</i> cf. <i>mammosus</i>	2.0	16.0	2.0	5.3	4.0	0.0	0.0	0.0	ssD	•	2.1	•	•	•	•
	<i>Levinsenia gracillis</i>	6.0	13.0	10.0	1.3	4.0	4.0	0.0	0.0	sD	•	1.1	2.6	•	•	•
	Maldanidae sp004	16.0	33.0	10.0	4.0	0.0	0.0	32.0	0.0	ssD	•	1.7	•	1.0	1.0	•
	<i>Ophelina</i> cf. <i>cylindricaudata</i>	4.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	ssD	6.1	•	•	•	•	•
	<i>Paradoneis lyra</i>	10.0	134.0	28.0	1.3	110.0	0.0	4.0	0.0	sD	8.6	3.3	•	1.2	1.3	1.6
Arthropoda																
Amphipoda	Amphipoda und.	10.0	10.0	20.0	21.3	0.0	0.0	4.0	40.0	U	6.1	4.3	1.3	•	•	•
	<i>Liropus elongatus</i>	0.0	27.0	0.0	61.3	14.0	0.0	0.0	0.0	S/D	-	1.8	•	1.1	•	1.0
	<i>Parvipalpus linea</i>	0.0	5.0	0.0	100.0	0.0	0.0	0.0	0.0	S/D	-	1.4	-	1.0	-	1.0
	Photidae und.	0.0	29.0	18.0	25.3	4.0	0.0	0.0	0.0	S/D	-	1.6	•	•	•	•
	<i>Ampelisca</i> sp022	0.0	36.0	0.0	65.3	0.0	0.0	0.0	0.0	O	-	3.5	-	1.4	-	1.3
	<i>Ampelisca</i> sp045	6.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	O	6.1	•	-	•	•	•
	<i>Carangoliopsis spinulosa</i>	14.0	0.0	0.0	2.7	40.0	0.0	0.0	0.0	O	•	•	•	•	1.2	•
	<i>Eriopisa elongata</i>	0.0	46.0	2.0	8.0	0.0	0.0	0.0	0.0	O	-	2.3	-	1.0	-	•

	<i>Harpinia</i> sp020	0.0	4.0	0.0	129.3	4.0	0.0	0.0	0.0	Ca?	-	1.2	•	1.1	•	1.1
	<i>Harpinia</i> sp028	4.0	59.0	10.0	0.0	0.0	36.0	4.0	12.0	Ca?	•	2.3	5.9	1.0	•	•
	<i>Harpinia</i> sp046	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Ca?	12.1	-	-	1.2	1.5	-
	<i>Stenothoe</i> sp001	0.0	13.0	0.0	9.3	0.0	0.0	0.0	0.0	U	-	1.6	-	•	-	•
Cumacea	Cumacea und	0.0	29.0	14.0	54.7	2.0	0.0	0.0	0.0	sD	-	3.1	•	1.3	•	1.2
	Diastylidae sp003	90.0	7.0	2.0	0.0	0.0	0.0	0.0	0.0	sD	•	•	-	2.0	2.6	•
	<i>Leucon</i> sp001	38.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	sD	13.6	•	-	1.6	2.2	•
Isopoda	Anthuridea und.	0.0	21.0	0.0	50.7	22.0	12.0	0.0	0.0	Ca?	-	1.4	1.4	•	•	1.0
	Leptanthuridae sp001	4.0	13.0	10.0	0.0	0.0	0.0	0.0	0.0	Ca?	6.1	•	-	•	•	•
	Desmosomatidae und.	14.0	43.0	6.0	48.0	52.0	52.0	8.0	100.0	sD	•	4.3	17.6	1.1	1.3	1.1
	<i>Chelator</i> cf. <i>chelatus</i>	10.0	3.0	30.0	0.0	0.0	0.0	0.0	0.0	sD	•	•	-	•	•	•
	<i>Haploniscus</i> sp003	0.0	0.0	0.0	0.0	0.0	16.0	20.0	28.0	sD	-	-	9.8	-	1.1	•
	<i>Ischnomesus</i> spA	0.0	0.0	0.0	0.0	2.0	4.0	4.0	4.0	sD	-	-	7.0	-	•	•
	<i>Ischnomesus</i> spB	18.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	sD	•	•	-	•	1.1	•
	<i>Janirella</i> sp028	0.0	0.0	0.0	81.3	22.0	0.0	0.0	0.0	sD	-	•	•	•	•	•
	<i>Macrostylis</i> sp003	0.0	0.0	0.0	0.0	0.0	12.0	0.0	28.0	sD	-	-	2.7	-	•	•
	<i>Aspidarachna</i> sp001	18.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	sD	•	•	-	•	1.0	•
	<i>Ilyarachna</i> sp001	0.0	47.0	0.0	29.3	2.0	4.0	0.0	4.0	sD	-	3.9	3.1	1.3	•	1.1
	<i>Syneurycope</i> sp028	0.0	0.0	0.0	0.0	0.0	24.0	0.0	24.0	sD	-	-	3.8	-	•	•
Tanaidacea	<i>Atlantapseudes nigrichela</i>	28.0	15.0	60.0	14.7	24.0	0.0	0.0	0.0	D/O	•	2.3	•	1.2	1.2	1.0

	<i>Fageapseudes retusifrons</i>	16.0	107.0	22.0	0.0	0.0	0.0	0.0	0.0	D/O	•	1.6	-	1.4	•	1.2
	<i>Sphyrapus malleolus</i>	6.0	11.0	4.0	44.0	0.0	0.0	0.0	0.0	D/O	6.1	1.5	-	•	•	•
	Sphyrapidae sp015	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D/O	•	6.1	-	•	•	•
	<i>Pseudotanais tympanobaculum</i>	1.0	4.0	0.0	0.0	0.0	0.0	0.0	80.0	sD	•	•	•	•	•	•
	Tanaidomorpha und.	0.0	22.0	4.0	22.7	6.0	8.0	44.0	64.0	sD	-	2.2	12.9	•	1.6	•
Echinodermata																
Ophiuroidea	<i>Amphipholis squamata</i>	8.0	39.0	24.0	29.3	0.0	0.0	0.0	0.0	S/D	8.6	5.0	-	•	1.0	1.4
	<i>Amphiura filiformis</i>	0.0	95.0	0.0	0.0	0.0	0.0	0.0	0.0	S/D	-	1.6	-	1.1	-	1.0
Echinoidea	<i>Brissopsis lyrifera</i>	0.0	2.0	2.0	6.7	4.0	0.0	0.0	4.0	ssD	-	1.2	3.1	•	•	•
	% Contribution of selected taxa:	68.5	71.3	65.5	70.3	93.0	82.9	85.9	68.2		100.0	72.1	90.9	27.6	35.6	30.0