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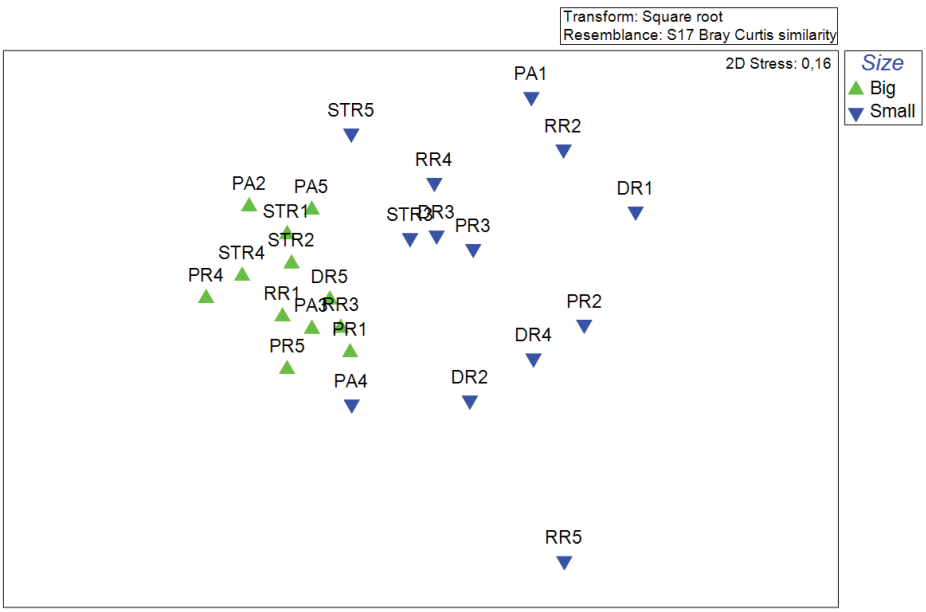

Fig. S1: Non-metric MDS ordination plot, based on species abundance data, comparing structure of polychaete assemblages between samples with different colony size from the Adriatic Sea.

Table S1. Taxonomic list with feeding guilds (TG) and biogeography groups assigned, and mean abundance and standard error (SE) of each taxa at the two sites in the Aegean (PIR, VOU) and the five sites in the Adriatic (RR, PR, STR, PA, DR). ** - species complex; * - species with unresolved taxonomic/distribution status in the Mediterranean. HMJ = herbivore motile jawed, BMX = burrowing motile non-jawed, BSX = burrowing sessile non-jawed, CMJ = carnivore motile jawed, CMX = carnivore motile non-jawed, CDJ = carnivore discretely motile jawed, FST = filter-feeders sessile tentaculate, FSP = filter-feeders sessile pumping, SMJ = surface deposit feeders motile jawed, SMT = surface deposit feeders motile tentaculate, SDT = surface deposit feeding, discretely motile tentaculate, SST = surface deposit feeding sessile tentaculate; aa = amphi-Atlantic, am = Atlantic-Mediterranean, amr = Atlantic-Mediterranean and Red Sea, amp = Atlantic-Mediterranean and Pacific, amrip = Atlantic-Mediterranean, Red Sea and Indo-Pacific, c = cosmopolitan, d = disjunct distribution, iam = Indo-Atlanto-Mediterranean, m = endemic Mediterranean, mrip = Mediterranean, Red Sea and Indo-Pacific.

			PIR		VOU		RR		PR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
ACROCIRRIDAE										
Acrocirrus frontifilis (Grube, 1860)	SMT	amip	0.43	0.28	0.00	0.00	0.00	0.00	0.00	0.00
APHRODITIDAE										
Pontogenia chrysocoma (Baird, 1865)	SDT	am	0.29	0.17	0.14	0.13	0.00	0.00	0.00	0.00
CAPITELLIDAE										
Dasybranchus caducus (Grube, 1846)	BMX	c	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.18
Dasybranchus gajolae Eisig, 1887	BMX	am	1.29	0.83	0.14	0.13	0.00	0.00	0.00	0.00
**Heteromastus filiformis* (Claparède, 1864)	FST	c	0.29	0.17	0.00	0.00	0.00	0.00	0.00	0.00
Leiochrides australis Augener, 1914	SDT	d	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.36
Notomastus latericeus Sars, 1851	CMX	am	11.29	3.74	0.86	0.65	7.60	3.01	39.00	22.07
Pseudoleiocapitella fauveli Harmelin, 1964	BMX	m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHAETOPTERIDAE										
Chaetopteridae	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHRYSOPETALIDAE										
Arichlidon reyssi (Katzmann, Laubier & Ramos, 1974)	CMX	m	0.86	0.31	0.14	0.13	0.00	0.00	0.00	0.00
Paleanotus chrysolepis Schmarda, 1861	CDJ	c	0.00	0.00	0.00	0.00	1.00	0.69	0.00	0.00
CIRRATULIDAE										
Aphelochaeta filiformis (Keferstein, 1862)	SMT	am	0.00	0.00	0.00	0.00	0.60	0.36	0.20	0.18
Caulleriella sp.	SMT	NA	0.00	0.00	0.00	0.00	0.20	0.18	0.00	0.00
Cirratulus cirratus (O. F. Müller, 1776)	SMT	am	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cirriformia tentaculata (Montagu, 1808)	SMT	amip	0.43	0.28	0.14	0.13	1.20	0.52	4.00	1.92
Dodecaceria concharum Örsted, 1843	CMJ/ HMJ	amip	0.57	0.53	0.86	0.37	2.60	0.96	12.40	4.98
Timarete filigera (Delle Chiaje, 1828)	SMT	m	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.18
DORVILLEIDAE										
Dorvillea rubrovittata (Grube, 1855)	CMJ/ HMJ	am	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dorvillea sp.	BSX	NA	0.00	0.00	0.00	0.00	0.40	0.22	2.00	1.39
Schistomeringos rudolphi (Delle Chiaje, 1828)	CMJ/ HMJ	am	0.00	0.00	0.14	0.13	0.00	0.00	0.00	0.00
EUNICIDAE										
Eunice schizobranchia Claparède, 1870	CDJ	am	0.00	0.00	0.00	0.00	0.20	0.18	1.40	1.04
Eunice sp.	CMJ	NA	0.43	0.40	0.29	0.17	0.00	0.00	0.40	0.36
Eunice vittata (Delle Chiaje, 1828)	CMX	c	0.71	0.39	2.57	0.99	8.20	2.97	29.00	9.16

Table S1 continued

			PIR		VOU		RR		PR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
Leodice torquata (Quatrefages, 1866)	CMJ	amrip	2.00	0.97	0.00	0.00	1.00	0.28	11.40	4.07
Lysidice collaris Grube, 1870	CDJ	NA	0.00	0.00	0.00	0.00	0.20	0.18	0.00	0.00
****Lysidice ninetta* Audouin & H Milne Edwards, 1833	CMJ	c	2.14	0.62	1.29	0.39	4.20	1.48	7.80	2.79
Lysidice unicornis (Grube, 1840)	BSX	c	0.43	0.19	0.29	0.26	1.60	0.61	7.80	3.28
Palola siciliensis (Grube, 1840)	CMJ	amrip	0.14	0.13	0.43	0.28	0.60	0.36	2.00	0.75
Paucibranchia fallax (Marion & Bobretzky, 1875)	CDJ	amip	0.14	0.13	0.14	0.13	0.20	0.18	0.80	0.44
EUPHROSINIDAE										
Euphrosine foliosa Audouin & H Milne Edwards, 1833	SST	amrip	0.57	0.19	0.29	0.26	0.20	0.18	0.00	0.00
FLABELLIGERIIDAE										
Flabelliderma cinari Karhan, Simboura & Salazar-Vallejo, 2012	CDJ	m	0.00	0.00	0.00	0.00	1.00	0.40	0.00	0.00
Pherusa sp.	CMX	am	0.14	0.13	0.00	0.00	0.00	0.00	0.00	0.00
Piromis eruca (Claparède, 1869)	FST	am	0.29	0.26	0.29	0.26	0.00	0.00	0.00	0.00
GLYCERIDAE										
Glycera alba (O.F. Müller, 1776)	CDJ	c	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.18
Glycera tesselata Grube, 1863	CDJ	c	0.00	0.00	0.14	0.13	0.20	0.18	0.00	0.00
GONIADIDAE										
Goniada maculata Örsted, 1843	CMJ	amip	0.00	0.00	0.14	0.13	0.00	0.00	0.00	0.00
HESIONIDAE										
Gyptis sp.	CMJ	NA	0.00	0.00	0.00	0.00	0.20	0.18	0.00	0.00
Leocrates claparedii (Costa in Claparède, 1868)	CMJ	c	0.29	0.26	0.14	0.13	0.00	0.00	0.20	0.18
Psamathe fusca Johnston, 1836	SDT	c	7.43	1.79	3.86	0.74	0.00	0.00	0.00	0.00
Syllidia armata Quatrefages, 1866	CMJ	amrip	0.14	0.13	0.29	0.26	0.00	0.00	0.00	0.00
LUMBRINERIDAE										
**Lumbrineris coccinea* (Renier, 1804)	CMJ	c	2.14	0.74	0.86	0.51	1.20	0.52	6.80	2.78
Lumbrineris gracilis (Ehlers, 1868) following Fauvel, 1927	CDJ	am	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
**Lumbrineris latreilli* Audouin & Milne Edwards, 1833	CDJ	c	2.43	0.97	1.00	0.29	1.20	0.66	3.40	1.08
Scoletoma fragilis (O.F. Müller, 1776)	CDJ	am	0.14	0.13	0.86	0.51	0.00	0.00	1.00	0.40
Scoletoma funchalensis (Kinberg, 1865)	CDJ	am	2.29	1.21	0.43	0.28	0.80	0.33	1.80	1.07
*Scoletoma impatien*s (Claparède, 1868)	HMJ	amr	0.00	0.00	0.00	0.00	0.80	0.44	2.00	0.94
MALDANIDAE										
Euclymene oerstedii (Claparède, 1863)	CMX	amip	0.43	0.40	0.00	0.00	0.00	0.00	0.00	0.00
Maldanidae	CMJ	NA	0.00	0.00	0.00	0.00	0.60	0.22	0.00	0.00
Petaloproctus terricolus Quatrefages, 1866	SDT	am	0.14	0.13	0.00	0.00	0.00	0.00	0.00	0.00
NEREIDIDAE										
Ceratonereis costae (Grube, 1840)	CDJ	c	1.86	1.00	12.00	3.28	10.20	6.11	17.80	7.55
Nereis rava Ehlers, 1868	CDJ	am	0.71	0.52	0.57	0.28	8.40	3.69	9.00	3.86
Nereis sp.	CDJ	NA	0.00	0.00	0.00	0.00	3.80	1.07	3.40	1.49
Nereis zonata Malmgren, 1867	SDT	c	0.29	0.17	0.71	0.33	0.00	0.00	0.00	0.00

Continued

Table S1 continued

			PIR		VOU		RR		PR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
***Perinereis cultrifera* (Grube, 1840)	BSX	c	0.43	0.40	0.00	0.00	0.00	0.00	0.00	0.00
NEPHTYDAE										
Nephtys sp.	CDJ	NA	0.00	0.00	0.29	0.17	0.00	0.00	0.00	0.00
OENINIDAE										
***Arabella geniculata* (Claparède, 1868)	BMJ	am	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arabella iricolor (Montagu, 1804)	CMJ	c	1.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00
ORBINIIDAE										
Naineris laevigata (Grube, 1855)	SST	c	0.43	0.19	0.14	0.13	0.00	0.00	0.00	0.00
PHYLLODOCIDAE										
Eulalia viridis (Linnaeus, 1767)	CMX	amr	0.14	0.13	0.00	0.00	0.00	0.00	0.00	0.00
Eumida sanguinea (Örsted, 1843)	CDJ	d	0.14	0.13	0.00	0.00	0.00	0.00	0.00	0.00
Notophyllum sp.	CMX	NA	0.00	0.00	0.29	0.26	0.00	0.00	0.00	0.00
Phyllodoce longipes Kinberg, 1866	CMX	d	0.00	0.00	0.00	0.00	1.60	1.43	0.00	0.00
***Phyllodoce madeirensis* Langerhans, 1880	CMX	c	0.00	0.00	0.00	0.00	3.00	1.50	3.60	0.88
Phyllodoce sp.	CMJ	NA	0.86	0.43	0.14	0.13	0.00	0.00	0.00	0.00
Pterocirrus macroceros (Grube, 1860)	CMX	d	0.14	0.13	0.00	0.00	0.80	0.52	0.40	0.36
PILARGIDAE										
Pilargidae	FST	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYNOIDAE										
Harmothoe antilopes McIntosh, 1876	CMJ	am	0.29	0.17	0.71	0.44	0.00	0.00	0.00	0.00
Harmothoe areolata (Grube, 1860)	CMJ	am	0.86	0.51	1.00	0.61	2.00	0.94	1.20	0.72
Harmothoe extenuata (Grube, 1840)	CMJ	amp	0.00	0.00	0.00	0.00	2.80	1.04	9.80	3.36
Harmothoe fragilis Moore, 1910	CMJ	amp	0.00	0.00	0.00	0.00	1.60	1.22	0.20	0.18
Harmothoe gilchristi Day, 1960	CMJ	amr	0.00	0.00	0.00	0.00	0.60	0.36	2.00	0.75
Harmothoe impar (Johnston, 1839)	CMJ	am	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Harmothoe spinifera (Ehlers, 1864)	BMX	am	4.14	0.74	2.86	0.65	0.60	0.36	3.20	1.75
Lepidasthenia elegans (Grube, 1840)	CMJ	amrip	0.00	0.00	0.14	0.13	0.00	0.00	0.00	0.00
Lepidonotus clava (Montagu, 1808)	CDJ	amrip	3.14	0.55	2.00	0.67	0.00	0.00	0.20	0.18
Polynoe scolopendrina Savigny, 1822	CMJ	amrip	0.00	0.00	0.00	0.00	2.20	0.82	1.40	0.83
Polynoidae	CMJ	NA	0.00	0.00	0.00	0.00	0.60	0.54	0.60	0.54
SABELLARIIDAE										
Sabellaria sp.	FST	NA	0.00	0.00	0.00	0.00	0.40	0.22	3.00	2.04
Sabellaria spinulosa (Leuckart, 1849)	FST	am	1.00	0.53	0.14	0.13	0.00	0.00	0.00	0.00
SABELLIDAE										
Amphiglena mediterranea (Leydig, 1851)	FST	d	0.29	0.17	0.29	0.17	0.00	0.00	0.00	0.00
Branchiomma bombyx (Dalyell, 1853)	FST	c	0.86	0.51	0.00	0.00	0.00	0.00	0.00	0.00
Branchiomma sp.	FST	NA	0.00	0.00	0.14	0.13	0.00	0.00	0.00	0.00
Sabellidae	FST	NA	0.00	0.00	0.00	0.00	0.60	0.22	0.20	0.18
Parasabella langerhansi (Knight-Jones, 1983)	FST	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.18
Parasabella saxicola (Grube, 1861)	FST	NA	1.57	0.57	1.00	0.53	0.00	0.00	0.00	0.00
Parasabella tommasi (Giangrande, 1994)	CDJ	NA	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.57

Continued

Table S1 continued

			PIR		VOU		RR		PR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
Pseudopotamilla reniformis (Bruguière, 1789)	FST	c	14.29	8.15	4.14	2.63	0.00	0.00	0.00	0.00
Pseudopotamilla sp.	FST	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.18
Sabella spallanzanii (Gmelin, 1791)	FST	amip	0.14	0.13	0.00	0.00	0.00	0.00	0.00	0.00
SCALIBREGMATIDAE										
Sclerocheilus minutus Grube, 1863	BMX	am	3.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00
SERPULIDAE										
**Ditrupa arietina* (O. F. Müller, 1776)	SST	c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroides pseudouncinata pseudouncinata Zibrowius, 1968	FST	am	22.86	9.49	10.71	3.51	0.20	0.18	0.60	0.54
Janua sp.	BMX	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pileolaria militaris Claparède, 1870	SDT	c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Placostegus crystallinus sensu Zibrowius, 1968	SDT	m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Protula sp.	FST	c	0.00	0.00	1.14	0.51	0.00	0.00	0.00	0.00
Serpula concharum Langerhans, 1880	FST	am	1.71	0.66	2.57	1.54	11.00	5.09	10.80	3.13
Serpula sp.	FST	NA	0.00	0.00	0.00	0.00	0.20	0.18	0.20	0.18
Serpula vermicularis Linnaeus, 1767	FST	c	12.71	6.12	2.71	0.69	1.20	0.87	0.20	0.18
Simplaria pseudomilitaris (Thiriot-Quievreux, 1965)	FST	c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spirobranchus lamarcki (Quatrefages, 1866)	FST	am	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spirobranchus polytrema (Philippi, 1844)	FST	am	10.57	3.36	5.14	3.44	0.00	0.00	0.00	0.00
Spirobranchus triqueter (Linnaeus, 1758)	FST	amr	0.43	0.40	1.57	0.92	10.20	5.00	2.80	1.45
Vermiliopsis infundibulum (Philippi, 1844)	FST	c	13.29	5.44	8.29	2.07	0.00	0.00	0.40	0.22
Vermiliopsis labiata (O. G. Costa, 1861)	FST	amrip	0.43	0.28	0.00	0.00	0.00	0.00	0.00	0.00
Vermiliopsis striaticeps (Grube, 1862)	FST	am	12.71	4.26	8.43	3.96	3.00	1.47	3.60	2.15
SPIONIDAE										
Scolelepis sp.	SDT	NA	0.43	0.19	0.14	0.13	0.00	0.00	0.00	0.00
Prionospio sp.	CMJ	NA	0.00	0.00	0.14	0.13	0.00	0.00	0.00	0.00
Spionidae	SDT	NA	0.00	0.00	0.00	0.00	1.20	0.72	0.80	0.33
SYLLIDAE										
Branchiosyllis exilis (Gravier, 1900)	CMJ	mrip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Brania pusilla (Dujardin, 1851)	HMJ	amrip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eurysyllis tuberculata Ehlers, 1864	CMJ	amr	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.36
Eusyllis sp.	HMJ	NA	0.00	0.00	0.14	0.13	0.00	0.00	0.00	0.00
Exogone dispar (Webster, 1879)	HMJ	c	0.00	0.00	0.00	0.00	0.20	0.18	1.40	0.22
**Exogone naidina* Örsted, 1845	HMJ	c	0.00	0.00	0.00	0.00	0.20	0.18	0.00	0.00
Exogone rostrata Naville, 1933	SDT	m	0.00	0.00	0.00	0.00	0.20	0.18	0.00	0.00
***Haplosyllis spongicola* (Grube, 1855)	CMJ	c	1.86	0.87	2.71	0.98	1.40	0.46	1.00	0.89
Myrianida sp.	CDJ	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.54

Continued

Table S1 continued

			PIR		VOU		RR		PR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
Paraehlersia ferrugina (Langerhans, 1881)	FST	c	0.00	0.00	0.00	0.00	0.40	0.22	0.20	0.18
Proceraea sp.	FST	NA	0.57	0.34	1.14	0.51	0.00	0.00	0.00	0.00
**Salvatoria clavata* (Claparède, 1863)	HMJ	c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sphaerosyllis pirifera Claparède, 1868	CMJ	am	0.14	0.13	0.14	0.13	0.00	0.00	0.00	0.00
Sphaerosyllis sp.	NA	NA	0.00	0.00	0.14	0.13	0.00	0.00	0.00	0.00
Syllides fulvus (Marion & Bobretzky, 1875)	CMJ	iam	0.00	0.00	0.00	0.00	0.20	0.18	0.00	0.00
***Syllis alternata* Moore, 1908	CMJ	c	0.00	0.00	0.00	0.00	3.00	1.33	1.00	0.57
**Syllis armillaris* (O.F. Müller, 1776)	CMJ	c	0.00	0.00	0.00	0.00	0.60	0.36	1.20	0.87
Syllis beneliahuae (Campoy & Alquézar, 1982)	CMJ	d	0.00	0.00	0.00	0.00	0.20	0.18	0.60	0.22
Syllis columbretensis (Campoy, 1982)	CMJ	am	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Syllis corallicola Verrill, 1900	CMJ	aa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Syllis ferrani Alós & San Martín, 1987	CMJ	m	0.00	0.00	0.00	0.00	4.60	2.11	12.00	6.22
Syllis gerlachi (Hartmann-Schröder, 1960)	CMJ	c	0.00	0.00	0.00	0.00	1.00	0.28	3.20	2.64
Syllis gerundensis (Alós & Campoy, 1981)	CMJ	m	0.00	0.00	0.00	0.00	1.40	1.04	4.80	2.76
***Syllis gracilis* Grube, 1840	CMJ	c	2.57	1.54	1.00	0.40	1.00	0.69	0.20	0.18
Syllis hyalina Grube, 1863	CMJ	c	3.57	1.86	6.00	2.42	0.00	0.00	0.00	0.00
Syllis krohnii Ehlers, 1864	CMJ	d	0.43	0.28	0.00	0.00	0.00	0.00	0.20	0.18
Syllis prolifera Krohn, 1852	CMJ	c	0.57	0.40	1.00	0.53	1.60	0.46	0.00	0.00
Syllis variegata Grube, 1860	CMJ	c	3.29	1.40	0.57	0.40	15.40	5.06	12.20	2.86
**Trypanosyllis aeolis* Langerhans, 1879	CMJ	c	0.00	0.00	0.00	0.00	0.20	0.18	0.00	0.00
Trypanosyllis coeliaca Claparède, 1868	CMJ	am	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trypanosyllis zebra (Grube, 1860)	CMJ	c	2.00	1.21	0.57	0.34	1.20	0.52	2.40	1.15
Xenosyllis scabra (Ehlers, 1864)	CMJ	aa	0.00	0.00	0.00	0.00	0.20	0.18	0.20	0.18
TEREBELLIDAE										
Amphitrite cirrata Müller, 1776	SST	am	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.54
Amphitrite sp.	SST	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amphitrite variabilis (Risso, 1826)	SST	m	0.29	0.26	0.43	0.28	0.00	0.00	0.00	0.00
Eupolymnia nebulosa (Montagu, 1819)	SST	amrip	0.00	0.00	0.14	0.13	0.00	0.00	0.00	0.00
Eupolymnia nesidensis (Delle Chiaje, 1828)	CMJ	am	0.00	0.00	0.43	0.28	0.00	0.00	0.00	0.00
Neoamphitrite affinis (Malmgren, 1866)	CMJ	am	0.43	0.19	0.00	0.00	0.00	0.00	0.00	0.00
Nicolea venustula (Montagu, 1819)	BMX	am	1.43	1.03	0.14	0.13	0.20	0.18	0.20	0.18
Polycirrus aurantiacus Grube, 1860	CMJ	am	2.00	0.73	3.43	1.32	0.00	0.00	0.00	0.00
Streblosoma sp.	SST	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.18
Terebella lapidaria Linnaeus, 1767	SST	amr	1.14	0.51	0.43	0.40	0.00	0.00	0.20	0.18
Terebellidae	SST	NA	0.00	0.00	0.00	0.00	15.40	5.36	24.20	6.91
Thelepus setosus (Quatrefages, 1866)	SST	amrip	0.00	0.00	0.29	0.17	0.00	0.00	0.00	0.00
TRICHOBRANCHIDAE										
Trichobranchus glacialis Malmgren, 1866	SST	am	0.14	0.13	0.14	0.13	0.00	0.00	0.00	0.00

Continued

Table S1 continued

			STR		PA		DR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
ACROCIRRIDAE								
Acrocirrus frontifilis (Grube, 1860)	SMT	amip	0.00	0.00	0.00	0.00	0.00	0.00
APHRODITIDAE								
Pontogenia chrysocoma (Baird, 1865)	SDT	am	0.00	0.00	0.00	0.00	0.00	0.00
CAPITELLIDAE								
Dasybranchus caducus (Grube, 1846)	BMX	c	0.00	0.00	1.00	0.57	0.20	0.18
Dasybranchus gajolae Eisig, 1887	BMX	am	0.00	0.00	0.00	0.00	0.00	0.00
**Heteromastus filiformis* (Claparède, 1864)	FST	c	0.00	0.00	0.00	0.00	0.00	0.00
Leiochrides australis Augener, 1914	SDT	d	0.60	0.36	1.40	0.88	0.00	0.00
Notomastus latericeus Sars, 1851	CMX	am	15.40	5.09	14.20	3.74	10.60	6.80
Pseudoleiocapitella fauveli Harmelin, 1964	BMX	m	1.80	0.77	4.00	1.98	0.20	0.18
CHAETOPTERIDAE								
Chaetopteridae	NA	NA	0.00	0.00	0.60	0.54	0.00	0.00
CHRYSOPETALIDAE								
Arichlidon reyssi (Katzmann, Laubier & Ramos, 1974)	CMX	m	0.00	0.00	0.00	0.00	0.00	0.00
Paleanotus chrysolepis Schmarda, 1861	CDJ	c	0.40	0.22	0.40	0.22	0.20	0.18
CIRRATULIDAE								
Aphelochaeta filiformis (Keferstein, 1862)	SMT	am	0.00	0.00	0.40	0.22	0.40	0.36
Caulleriella sp.	SMT	NA	1.00	0.28	0.20	0.18	0.40	0.36
Cirratulus cirratus (O. F. Müller, 1776)	SMT	am	1.00	0.49	0.40	0.36	0.00	0.00
Cirriformia tentaculata (Montagu, 1808)	SMT	amip	3.60	0.83	1.00	0.40	2.20	1.04
Dodecaceria concharum Örsted, 1843	CMJ/ HMJ	amip	3.40	1.19	3.60	1.04	3.60	0.83
Timarete filigera (Delle Chiaje, 1828)	SMT	m	0.80	0.52	0.00	0.00	0.00	0.00
DORVILLEIDAE								
Dorvillea rubrovittata (Grube, 1855)	CMJ/ HMJ	am	0.00	0.00	0.00	0.00	0.00	0.00
Dorvillea sp.	BSX	NA	1.00	0.28	0.80	0.44	0.60	0.54
Schistomeringos rudolphi (Delle Chiaje, 1828)	CMJ/ HMJ	am	0.00	0.00	0.00	0.00	0.00	0.00
EUNICIDAE								
Eunice schizobranchia Claparède, 1870	CDJ	am	0.20	0.18	0.00	0.00	0.00	0.00
Eunice sp.	CMJ	NA	0.80	0.33	0.40	0.36	0.00	0.00
Eunice vittata (Delle Chiaje, 1828)	CMX	c	7.60	2.11	20.80	6.26	3.80	1.58
Leodice torquata (Quatrefages, 1866)	CMJ	amrip	6.00	1.67	2.80	0.87	3.00	0.75
Lysidice collaris Grube, 1870	CDJ	NA	9.60	2.79	0.20	0.18	0.20	0.18
***Lysidice ninetta* Audouin & H Milne Edwards, 1833	CMJ	c	28.60	5.10	15.20	3.55	8.60	2.48
Lysidice unicornis (Grube, 1840)	BSX	c	10.40	1.93	6.60	1.59	2.80	1.43
Palola siciliensis (Grube, 1840)	CMJ	amrip	4.00	0.63	0.60	0.22	0.80	0.33
Paucibranchia fallax (Marion & Bobretzky, 1875)	CDJ	amip	0.20	0.18	0.00	0.00	0.40	0.22

Continued

Table S1 continued

			STR		PA		DR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
EUPHROSINIDAE								
Euphrosine foliosa Audouin & H Milne Edwards, 1833	SST	amrip	0.00	0.00	0.00	0.00	0.40	0.36
FLABELLIGERIIDAE								
Flabelliderma cinari Karhan, Simboura & Salazar-Vallejo, 2012	CDJ	m	0.20	0.18	0.60	0.36	0.40	0.22
Pherusa sp.	CMX	am	0.00	0.00	0.00	0.00	0.00	0.00
Piromis eruca (Claparède, 1869)	FST	am	0.00	0.00	0.00	0.00	0.00	0.00
GLYCERIDAE								
Glycera alba (O.F. Müller, 1776)	CDJ	c	0.00	0.00	0.20	0.18	0.00	0.00
Glycera tesselata Grube, 1863	CDJ	c	0.00	0.00	0.00	0.00	0.00	0.00
GONIADIDAE								
Goniada maculata Örsted, 1843	CMJ	amip	0.00	0.00	0.00	0.00	0.00	0.00
HESIONIDAE								
Gyptis sp.	CMJ	NA	0.60	0.36	1.20	0.44	0.60	0.36
Leocrates claparedii (Costa in Claparède, 1868)	CMJ	c	1.20	1.07	0.00	0.00	0.00	0.00
Psamathe fusca Johnston, 1836	SDT	c	0.00	0.00	0.00	0.00	0.00	0.00
Syllidia armata Quatrefages, 1866	CMJ	amrip	0.00	0.00	0.00	0.00	0.00	0.00
LUMBRINERIDAE								
**Lumbrineris coccinea* (Renier, 1804)	CMJ	c	4.60	2.01	1.20	0.44	0.40	0.22
Lumbrineris gracilis (Ehlers, 1868) following Fauvel, 1927	CDJ	am	0.00	0.00	0.00	0.00	0.20	0.18
**Lumbrineris latreilli* Audouin & Milne Edwards, 1833	CDJ	c	0.80	0.52	2.80	1.11	1.60	0.83
Scoletoma fragilis (O.F. Müller, 1776)	CDJ	am	0.00	0.00	0.00	0.00	0.20	0.18
Scoletoma funchalensis (Kinberg, 1865)	CDJ	am	0.00	0.00	0.20	0.18	0.60	0.36
*Scoletoma impatien*s (Claparède, 1868)	HMJ	amr	2.60	0.46	1.20	0.87	0.60	0.22
MALDANIDAE								
Euclymene oerstedii (Claparède, 1863)	CMX	amip	0.00	0.00	0.00	0.00	0.00	0.00
Maldanidae	CMJ	NA	0.40	0.22	1.40	1.04	0.40	0.22
Petaloproctus terricolus Quatrefages, 1866	SDT	am	0.00	0.00	0.00	0.00	0.00	0.00
NEREIDIDAE								
Ceratonereis costae (Grube, 1840)	CDJ	c	19.80	4.01	0.80	0.52	23.60	6.28
Nereis rava Ehlers, 1868	CDJ	am	6.00	1.85	18.80	8.79	3.20	1.21
Nereis sp.	CDJ	NA	6.80	3.74	5.00	2.08	1.80	1.00
Nereis zonata Malmgren, 1867	SDT	c	0.00	0.00	0.00	0.00	0.00	0.00
***Perinereis cultrifera* (Grube, 1840)	BSX	c	5.00	2.83	0.00	0.00	0.00	0.00
NEPHTYDAE								
Nephtys sp.	CDJ	NA	0.00	0.00	0.00	0.00	0.00	0.00
OENINIDAE								
***Arabella geniculata* (Claparède, 1868)	BMJ	am	0.00	0.00	0.00	0.00	0.20	0.18
Arabella iricolor (Montagu, 1804)	CMJ	c	0.00	0.00	0.00	0.00	0.00	0.00
ORBINIIDAE								
Naineris laevigata (Grube, 1855)	SST	c	0.00	0.00	0.00	0.00	0.00	0.00

Continued

Table S1 continued

			STR		PA		DR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
PHYLLODOCIDAE								
Eulalia viridis (Linnaeus, 1767)	CMX	amr	0.00	0.00	0.00	0.00	0.00	0.00
Eumida sanguinea (Örsted, 1843)	CDJ	d	0.00	0.00	0.00	0.00	0.00	0.00
Notophyllum sp.	CMX	NA	0.00	0.00	0.00	0.00	0.00	0.00
Phyllodoce longipes Kinberg, 1866	CMX	d	0.00	0.00	0.00	0.00	0.00	0.00
***Phyllodoce madeirensis* Langerhans, 1880	CMX	c	4.80	1.84	3.00	1.50	2.60	1.28
Phyllodoce sp.	CMJ	NA	0.00	0.00	0.00	0.00	0.00	0.00
Pterocirrus macroceros (Grube, 1860)	CMX	d	1.20	1.07	1.00	0.69	0.00	0.00
PILARGIDAE								
Pilargidae	FST	NA	0.20	0.18	0.00	0.00	0.00	0.00
POLYNOIDAE								
Harmothoe antilopes McIntosh, 1876	CMJ	am	0.00	0.00	0.00	0.00	0.00	0.00
Harmothoe areolata (Grube, 1860)	CMJ	am	4.60	1.04	0.80	0.33	0.20	0.18
Harmothoe extenuata (Grube, 1840)	CMJ	amp	2.80	0.95	1.00	0.40	5.20	1.91
Harmothoe fragilis Moore, 1910	CMJ	amp	0.00	0.00	1.00	0.57	0.20	0.18
Harmothoe gilchristi Day, 1960	CMJ	amr	0.80	0.44	0.00	0.00	0.00	0.00
Harmothoe impar (Johnston, 1839)	CMJ	am	0.00	0.00	0.00	0.00	0.00	0.00
Harmothoe spinifera (Ehlers, 1864)	BMX	am	2.60	1.00	1.80	1.61	0.40	0.36
Lepidasthenia elegans (Grube, 1840)	CMJ	amrip	0.00	0.00	0.00	0.00	0.00	0.00
Lepidonotus clava (Montagu, 1808)	CDJ	amrip	1.60	0.22	0.00	0.00	0.00	0.00
Polynoe scolopendrina Savigny, 1822	CMJ	amrip	1.40	0.67	0.80	0.52	0.40	0.36
Polynoidae	CMJ	NA	0.20	0.18	4.40	2.13	2.60	1.31
SABELLARIIDAE								
Sabellaria sp.	FST	NA	1.20	0.18	1.80	1.21	0.40	0.36
Sabellaria spinulosa (Leuckart, 1849)	FST	am	0.00	0.00	0.00	0.00	0.00	0.00
SABELLIDAE								
Amphiglena mediterranea (Leydig, 1851)	FST	d	0.00	0.00	0.00	0.00	0.00	0.00
Branchiomma bombyx (Dalyell, 1853)	FST	c	0.00	0.00	0.00	0.00	0.00	0.00
Branchiomma sp.	FST	NA	0.00	0.00	0.00	0.00	0.00	0.00
Sabellidae	FST	NA	1.40	0.46	1.00	0.69	0.20	0.18
Parasabella langerhansi (Knight-Jones, 1983)	FST	NA	0.00	0.00	0.00	0.00	0.20	0.18
Parasabella saxicola (Grube, 1861)	FST	NA	0.00	0.00	0.00	0.00	0.00	0.00
Parasabella tommasi (Giangrande, 1994)	CDJ	NA	0.00	0.00	0.00	0.00	0.20	0.18
Pseudopotamilla reniformis (Bruguière, 1789)	FST	c	0.00	0.00	0.00	0.00	0.00	0.00
Pseudopotamilla sp.	FST	NA	0.00	0.00	0.00	0.00	0.00	0.00
Sabella spallanzanii (Gmelin, 1791)	FST	amip	0.00	0.00	0.00	0.00	0.00	0.00
SCALIBREGMATIDAE								
Sclerocheilus minutus Grube, 1863	BMX	am	0.00	0.00	0.00	0.00	0.00	0.00
SERPULIDAE								
**Ditrupa arietina* (O. F. Müller, 1776)	SST	c	0.00	0.00	0.00	0.00	0.00	0.00

Continued

Table S1 continued

			STR		PA		DR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
Hydroides pseudouncinata pseudouncinata Zibrowius, 1968	FST	am	1.60	0.54	1.40	0.83	1.40	0.46
Janua sp.	BMX	NA	0.00	0.00	0.00	0.00	0.00	0.00
Pileolaria militaris Claparède, 1870	SDT	c	0.00	0.00	0.00	0.00	0.00	0.00
Placostegus crystallinus sensu Zibrowius, 1968	SDT	m	0.00	0.00	0.00	0.00	0.00	0.00
Protula sp.	FST	c	0.00	0.00	0.00	0.00	0.00	0.00
Serpula concharum Langerhans, 1880	FST	am	31.60	17.80	17.20	6.00	23.00	8.33
Serpula sp.	FST	NA	0.60	0.36	0.40	0.36	0.40	0.36
Serpula vermicularis Linnaeus, 1767	FST	c	1.60	0.83	0.00	0.00	1.00	0.89
Simplaria pseudomilitaris (Thiriot-Quievreux, 1965)	FST	c	0.00	0.00	0.00	0.00	0.00	0.00
Spirobranchus lamarcki (Quatrefages, 1866)	FST	am	0.00	0.00	0.00	0.00	0.00	0.00
Spirobranchus polytrema (Philippi, 1844)	FST	am	0.00	0.00	0.00	0.00	0.00	0.00
Spirobranchus triqueter (Linnaeus, 1758)	FST	amr	5.00	2.48	12.60	3.82	1.60	0.61
Vermiliopsis infundibulum (Philippi, 1844)	FST	c	2.00	1.57	0.60	0.22	0.40	0.36
Vermiliopsis labiata (O. G. Costa, 1861)	FST	amrip	0.00	0.00	0.00	0.00	0.00	0.00
Vermiliopsis striaticeps (Grube, 1862)	FST	am	15.80	7.53	6.40	2.63	8.20	3.64
SPIONIDAE								
Scolelepis sp.	SDT	NA	0.00	0.00	0.00	0.00	0.00	0.00
Prionospio sp.	CMJ	NA	0.00	0.00	0.00	0.00	0.00	0.00
Spionidae	SDT	NA	1.00	0.69	4.20	2.49	0.20	0.18
SYLLIDAE								
Branchiosyllis exilis (Gravier, 1900)	CMJ	mrip	0.20	0.18	0.60	0.22	0.60	0.54
Brania pusilla (Dujardin, 1851)	HMJ	amrip	0.40	0.22	0.60	0.22	0.20	0.18
Eurysyllis tuberculata Ehlers, 1864	CMJ	amr	0.40	0.22	0.40	0.36	0.00	0.00
Eusyllis sp.	HMJ	NA	0.00	0.00	0.00	0.00	0.00	0.00
Exogone dispar (Webster, 1879)	HMJ	c	4.00	1.02	1.00	0.49	0.40	0.22
**Exogone naidina* Örsted, 1845	HMJ	c	0.20	0.18	0.00	0.00	0.00	0.00
Exogone rostrata Naville, 1933	SDT	m	1.00	0.49	1.40	1.04	0.00	0.00
***Haplosyllis spongicola* (Grube, 1855)	CMJ	c	5.20	1.58	1.80	0.72	0.80	0.33
Myrianida sp.	CDJ	NA	0.60	0.22	0.20	0.18	0.40	0.22
Paraehlersia ferrugina (Langerhans, 1881)	FST	c	2.00	0.75	0.80	0.72	0.20	0.18
Proceraea sp.	FST	NA	0.00	0.00	0.00	0.00	0.00	0.00
**Salvatoria clavata* (Claparède, 1863)	HMJ	c	0.40	0.22	0.20	0.18	0.00	0.00
Sphaerosyllis pirifera Claparède, 1868	CMJ	am	0.00	0.00	0.20	0.18	0.20	0.18
Sphaerosyllis sp.	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
Syllides fulvus (Marion & Bobretzky, 1875)	CMJ	iam	0.00	0.00	1.20	0.33	0.00	0.00
***Syllis alternata* Moore, 1908	CMJ	c	1.60	0.73	4.00	1.10	0.80	0.52

Continued

Table S1 continued

			STR		PA		DR	
	TG	**BG**	**Mean**	**SE**	**Mean**	**SE**	**Mean**	**SE**
**Syllis armillaris* (O.F. Müller, 1776)	CMJ	c	0.20	0.18	0.60	0.36	0.20	0.18
Syllis beneliahuae (Campoy & Alquézar, 1982)	CMJ	d	1.20	0.72	2.00	0.85	2.20	1.56
Syllis columbretensis (Campoy, 1982)	CMJ	am	0.00	0.00	0.00	0.00	0.20	0.18
Syllis corallicola Verrill, 1900	CMJ	aa	0.20	0.18	0.40	0.22	0.00	0.00
Syllis ferrani Alós & San Martín, 1987	CMJ	m	8.20	2.27	5.40	1.04	2.60	1.59
Syllis gerlachi (Hartmann-Schröder, 1960)	CMJ	c	12.20	3.25	11.60	2.82	0.60	0.36
Syllis gerundensis (Alós & Campoy, 1981)	CMJ	m	1.20	0.66	3.20	0.87	0.00	0.00
***Syllis gracilis* Grube, 1840	CMJ	c	0.80	0.72	0.60	0.36	1.20	1.07
Syllis hyalina Grube, 1863	CMJ	c	0.00	0.00	0.00	0.00	0.00	0.00
Syllis krohnii Ehlers, 1864	CMJ	d	0.00	0.00	0.20	0.18	0.00	0.00
Syllis prolifera Krohn, 1852	CMJ	c	0.00	0.00	2.80	1.43	0.00	0.00
Syllis variegata Grube, 1860	CMJ	c	15.80	3.97	13.40	4.71	6.60	1.89
**Trypanosyllis aeolis* Langerhans, 1879	CMJ	c	0.00	0.00	1.20	0.33	0.00	0.00
Trypanosyllis coeliaca Claparède, 1868	CMJ	am	0.00	0.00	0.80	0.33	0.00	0.00
Trypanosyllis zebra (Grube, 1860)	CMJ	c	1.40	0.61	1.20	0.33	2.00	0.49
Xenosyllis scabra (Ehlers, 1864)	CMJ	aa	0.40	0.22	0.00	0.00	0.00	0.00
TEREBELLIDAE								
Amphitrite cirrata Müller, 1776	SST	am	1.20	1.07	0.00	0.00	0.00	0.00
Amphitrite sp.	SST	NA	0.00	0.00	0.00	0.00	0.00	0.00
Amphitrite variabilis (Risso, 1826)	SST	m	0.00	0.00	0.00	0.00	0.00	0.00
Eupolymnia nebulosa (Montagu, 1819)	SST	amrip	0.00	0.00	0.00	0.00	0.00	0.00
Eupolymnia nesidensis (Delle Chiaje, 1828)	CMJ	am	0.00	0.00	0.00	0.00	0.00	0.00
Neoamphitrite affinis (Malmgren, 1866)	CMJ	am	0.20	0.18	0.00	0.00	0.00	0.00
Nicolea venustula (Montagu, 1819)	BMX	am	0.00	0.00	0.00	0.00	0.00	0.00
Polycirrus aurantiacus Grube, 1860	CMJ	am	0.00	0.00	0.00	0.00	0.00	0.00
Streblosoma sp.	SST	NA	0.00	0.00	0.00	0.00	0.00	0.00
Terebella lapidaria Linnaeus, 1767	SST	amr	0.60	0.54	0.00	0.00	0.20	0.18
Terebellidae	SST	NA	30.40	12.48	19.60	3.90	8.60	2.01
Thelepus setosus (Quatrefages, 1866)	SST	amrip	0.00	0.00	0.00	0.00	0.00	0.00
TRICHOBRANCHIDAE								
Trichobranchus glacialis Malmgren, 1866	SST	am	0.00	0.00	0.00	0.00	0.00	0.00

Table S2. Results of SIMPER analyses (cut-off 90%) used to identify taxa that mostly contribute to (A) polychaete similarity within geographic areas, (B) polychaete dissimilarity between geographic areas. Abund = mean abundance, Sim% = mean similarity, Sim/SD = similarity/standard deviation, Cont% = contribution relative to single taxon, Cum% = cumulative contribution, Av.Ab = mean abundance, Diss% = mean dissimilarity, Diss/SD = dissimilarity/standard deviation.

A	Group	Sim%	Species	Abund	Sim%	Sim/SD	Cont%	Cum%
	Aegean	45.36	*Vermiliopsis infundibulum* (Philippi, 1844)	2.96	4.4	1.83	9.71	9.71
			Hydroides pseudouncinata pseudouncinata Zibrowius, 1968	3.44	4.09	1.6	9.01	18.72
			Psamathe fusca Johnston, 1836	2.23	3.48	2.9	7.66	26.38
			Vermiliopsis striaticeps (Grube, 1862)	2.77	3.37	1.75	7.44	33.82
			Terebellidae	2.03	2.78	1.82	6.12	39.94
			Harmothoe spinifera (Ehlers, 1864)	1.75	2.64	1.89	5.82	45.76
			Spirobranchus polytrema (Philippi, 1844)	2.24	2.35	1.1	5.19	50.94
			Ceratonereis costae (Grube, 1840)	2.02	2.02	0.77	4.45	55.39
			Syllis hyalina Grube, 1863	1.73	1.88	1.02	4.15	59.55
			Lepidonotus clava (Montagu, 1808)	1.43	1.88	1.39	4.14	63.68
			Serpula vermicularis Linnaeus, 1767	2.05	1.87	0.99	4.13	67.81
			Lysidice ninetta Audouin & H Milne Edwards, 1833	1.12	1.31	1.19	2.9	70.71
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.08	1.26	1.13	2.78	73.49
			Pseudopotamilla reniformis (Bruguière, 1789)	1.94	1.19	0.72	2.63	76.12
			Haplosyllis spongicola (Grube, 1855)	1.19	1.15	0.86	2.54	78.66
			Notomastus latericeus Sars, 1851	1.67	1.04	0.61	2.28	80.94
			Eunice vittata (Delle Chiaje, 1828)	0.86	0.71	0.48	1.57	82.51
			Serpula concharum Langerhans, 1880	1.02	0.67	0.62	1.49	84
			Syllis gracilis Grube, 1840	0.9	0.65	0.62	1.42	85.43
			Lumbrineris coccinea (Renier, 1804)	0.84	0.58	0.52	1.28	86.7
			Syllis variegata Grube, 1860	0.94	0.58	0.62	1.27	87.98
			Scoletoma funchalensis (Kinberg, 1865)	0.79	0.55	0.62	1.2	89.18
			Parasabella saxicola (Grube, 1861)	0.78	0.49	0.53	1.07	90.25
	Adriatic	49.42	Terebellidae	4.16	4.23	4.28	8.57	8.57
			Syllis variegata Grube, 1860	3.31	3.41	2.51	6.9	15.47
			Serpula concharum Langerhans, 1880	3.56	3.01	1.07	6.09	21.56
			Lysidice ninetta Audouin & H Milne Edwards, 1833	3.21	2.96	2.25	5.98	27.54
			Eunice vittata (Delle Chiaje, 1828)	3.22	2.89	1.9	5.84	33.38
			Ceratonereis costae (Grube, 1840)	3.16	2.54	1.16	5.13	38.52
			Notomastus latericeus Sars, 1851	3.37	2.49	1.54	5.04	43.55
			Nereis rava Ehlers, 1868	2.43	1.85	1.13	3.74	47.29
			Dodecaceria concharum Örsted, 1843	1.92	1.77	1.59	3.57	50.87
			Leodice torquata (Quatrefages, 1866)	1.87	1.65	1.82	3.34	54.2
			Vermiliopsis striaticeps (Grube, 1862)	2.17	1.63	1.15	3.3	57.5
			Lysidice unicornis (Grube, 1840)	2.08	1.63	1.53	3.3	60.8
			Spirobranchus triqueter (Linnaeus, 1758)	2.02	1.58	1.09	3.19	63.99
			Harmothoe extenuata (Grube, 1840)	1.73	1.48	1.21	3	66.99
			Syllis ferrani Alós & San Martín, 1987	2.02	1.27	0.94	2.58	69.57
			Phyllodoce madeirensis Langerhans, 1880	1.51	1.18	1.06	2.38	71.94
			Nereis sp.	1.57	1	0.84	2.02	73.96

Continued

Table S2 continued

A	Group	Sim%	Species		Abund	Sim%	Sim/SD	Cont%	Cum%
			Syllis gerlachi (Hartmann-Schröder, 1960)		1.78	0.97	0.87	1.97	75.93
			Cirriformia tentaculata (Montagu, 1808)		1.22	0.88	0.9	1.79	77.71
			Trypanosyllis zebra (Grube, 1860)		1.02	0.75	0.83	1.51	79.23
			Lumbrineris coccinea (Renier, 1804)		1.24	0.7	0.85	1.41	80.64
			Haplosyllis spongicola (Grube, 1855)		1.07	0.63	0.79	1.28	81.92
			Palola siciliensis (Grube, 1840)		0.99	0.62	0.86	1.26	83.18
			Lumbrineris latreilli Audouin & Milne Edwards, 1833		1.03	0.6	0.67	1.21	84.39
			Syllis alternata Moore, 1908		1.04	0.53	0.61	1.08	85.47
			Scoletoma impatiens (Claparède, 1868)		0.89	0.5	0.69	1	86.47
			Harmothoe areolata (Grube, 1860)		0.94	0.48	0.61	0.96	87.43
			Exogone dispar (Webster, 1879)		0.86	0.47	0.69	0.95	88.38
			Hydroides pseudouncinata pseudouncinata Zibrowius, 1968		0.72	0.39	0.62	0.79	89.16
			Sabellaria sp.		0.75	0.35	0.54	0.71	89.87
			Syllis gerundensis (Alós & Campoy, 1981)		0.91	0.35	0.5	0.71	90.58
B	**Group**	**Sim%**	**Species**		**Abund**	**Sim%**	**Sim/SD**	**Cont%**	**Cum%**
	Aegean & Adriatic	74.42	*Serpula concharum* Langerhans, 1880	1.02	3.56	2.5	1.17	3.37	3.37
			Hydroides pseudouncinata pseudouncinata Zibrowius, 1968	3.44	0.72	2.32	1.32	3.12	6.48
			Vermiliopsis infundibulum (Philippi, 1844)	2.96	0.42	2.21	1.52	2.98	9.46
			Syllis variegata Grube, 1860	0.94	3.31	2.03	1.75	2.73	12.19
			Notomastus latericeus Sars, 1851	1.67	3.37	2.02	1.43	2.72	14.9
			Ceratonereis costae (Grube, 1840)	2.02	3.16	1.91	1.33	2.57	17.47
			Eunice vittata (Delle Chiaje, 1828)	0.86	3.22	1.91	1.62	2.56	20.03
			Psamathe fusca Johnston, 1836	2.23	0	1.86	2.24	2.5	22.53
			Spirobranchus polytrema (Philippi, 1844)	2.24	0	1.78	1.37	2.4	24.93
			Terebellidae	2.03	4.16	1.73	1.43	2.33	27.26
			Lysidice ninetta Audouin & H Milne Edwards, 1833	1.12	3.21	1.7	1.61	2.29	29.54
			Nereis rava Ehlers, 1868	0.46	2.43	1.68	1.41	2.26	31.8
			Vermiliopsis striaticeps (Grube, 1862)	2.77	2.17	1.6	1.2	2.15	33.95
			Serpula vermicularis Linnaeus, 1767	2.05	0.44	1.51	1.06	2.03	35.98
			Spirobranchus triqueter (Linnaeus, 1758)	0.51	2.02	1.49	1.15	2	37.98
			Syllis hyalina Grube, 1863	1.73	0	1.46	1.18	1.96	39.94
			Pseudopotamilla reniformis (Bruguière, 1789)	1.94	0	1.44	0.9	1.94	41.88
			Syllis ferrani Alós & San Martín, 1987	0	2.02	1.44	1.39	1.93	43.81
			Harmothoe extenuata (Grube, 1840)	0	1.73	1.39	1.55	1.86	45.67
			Lysidice unicornis (Grube, 1840)	0.32	2.08	1.38	1.69	1.85	47.52
			Leodice torquata (Quatrefages, 1866)	0.46	1.87	1.33	1.66	1.79	49.31
			Syllis gerlachi (Hartmann-Schröder, 1960)	0	1.78	1.25	1.22	1.69	51

Continued

Table S2 continued

B	Group	Sim%	Species		Abund	Sim%	Sim/SD	Cont%	Cum%
			Dodecaceria concharum Örsted, 1843	0.48	1.92	1.25	1.41	1.68	52.68
			Harmothoe spinifera (Ehlers, 1864)	1.75	0.75	1.22	1.49	1.63	54.32
			Phyllodoce madeirensis Langerhans, 1880	0	1.51	1.19	1.49	1.59	55.91
			Nereis sp.	0	1.57	1.18	1.17	1.59	57.5
			Lepidonotus clava (Montagu, 1808)	1.43	0.29	1.04	1.48	1.39	58.89
			Lumbrineris coccinea (Renier, 1804)	0.84	1.24	0.9	1.18	1.21	60.1
			Cirriformia tentaculata (Montagu, 1808)	0.24	1.22	0.9	1.2	1.21	61.32
			Haplosyllis spongicola (Grube, 1855)	1.19	1.07	0.87	1.21	1.17	62.48
			Trypanosyllis zebra (Grube, 1860)	0.58	1.02	0.84	1.24	1.13	63.61
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.08	1.03	0.81	1.27	1.09	64.7
			Harmothoe areolata (Grube, 1860)	0.51	0.94	0.78	1.06	1.05	65.75
			Syllis gracilis Grube, 1840	0.9	0.43	0.76	1	1.03	66.78
			Syllis alternata Moore, 1908	0	1.04	0.76	0.99	1.02	67.8
			Palola siciliensis (Grube, 1840)	0.24	0.99	0.69	1.22	0.93	68.73
			Scoletoma funchalensis (Kinberg, 1865)	0.79	0.44	0.68	0.86	0.92	69.65
			Scoletoma impatiens (Claparède, 1868)	0	0.89	0.66	1.07	0.88	70.53
			Syllis gerundensis (Alós & Campoy, 1981)	0	0.91	0.65	0.85	0.87	71.4
			Exogone dispar (Webster, 1879)	0	0.86	0.63	1.08	0.84	72.24
			Polynoidae	0	0.73	0.6	0.7	0.8	73.04
			Syllis prolifera Krohn, 1852	0.51	0.46	0.59	0.86	0.79	73.83
			Parasabella saxicola (Grube, 1861)	0.78	0	0.58	0.93	0.78	74.61
			Spionidae	0	0.75	0.58	0.77	0.78	75.39
			Sclerocheilus minutus Grube, 1863	0.76	0	0.57	0.75	0.77	76.16
			Sabellaria sp.	0	0.75	0.55	0.89	0.74	76.9
			Polynoe scolopendrina Savigny, 1822	0	0.74	0.52	0.86	0.7	77.6
			Syllis beneliahuae (Campoy & Alquézar, 1982)	0	0.69	0.48	0.76	0.65	78.25
			Lysidice collaris Grube, 1870	0	0.66	0.47	0.56	0.63	78.88
			Proceraea sp.	0.55	0	0.44	0.69	0.59	79.47
			Sabellidae	0	0.53	0.42	0.75	0.57	80.03
			Dorvillea sp.	0	0.61	0.42	0.82	0.56	80.6
			Nereis zonata Malmgren, 1867	0.42	0	0.39	0.68	0.52	81.12
			Pseudoleiocapitella fauveli Harmelin, 1964	0	0.56	0.39	0.6	0.52	81.64
			Gyptis sp.	0	0.42	0.37	0.7	0.49	82.13
			Scoletoma fragilis (O.F. Müller, 1776)	0.32	0.19	0.35	0.63	0.47	82.6
			Arichlidon reyssi (Katzmann, Laubier & Ramos, 1974)	0.42	0	0.33	0.7	0.45	83.05
			Harmothoe gilchristi Day, 1960	0	0.43	0.33	0.6	0.45	83.5
			Protula sp.	0.39	0	0.33	0.58	0.44	83.94
			Maldanidae	0	0.42	0.33	0.69	0.44	84.38
			Euphrosine foliosa Audouin & H Milne Edwards, 1833	0.39	0.1	0.32	0.75	0.43	84.81
			Paraehlersia ferrugina (Langerhans, 1881)	0	0.48	0.32	0.7	0.43	85.24
			Harmothoe antilopes McIntosh, 1876	0.37	0	0.31	0.54	0.42	85.67

Continued

Table S2 continued

B	Group	Sim%	Species		Abund	Sim%	Sim/SD	Cont%	Cum%
			Eunice sp.	0.27	0.25	0.31	0.68	0.42	86.09
			Syllis armillaris (O.F. Müller, 1776)	0	0.4	0.31	0.66	0.41	86.5
			Pterocirrus macroceros (Grube, 1860)	0.07	0.38	0.31	0.59	0.41	86.91
			Flabelliderma cinari Karhan, Simboura & Salazar-Vallejo, 2012	0	0.37	0.3	0.64	0.4	87.31
			Sabellaria spinulosa (Leuckart, 1849)	0.39	0	0.29	0.6	0.39	87.7
			Harmothoe fragilis Moore, 1910	0	0.35	0.29	0.49	0.38	88.09
			Phyllodoce sp.	0.37	0	0.28	0.58	0.38	88.47
			Paucibranchia fallax (Marion & Bobretzky, 1875)	0.14	0.27	0.27	0.65	0.37	88.84
			Arabella iricolor (Montagu, 1804)	0.37	0	0.27	0.59	0.37	89.2
			Dasybranchus gajolae Eisig, 1887	0.37	0	0.27	0.49	0.36	89.56
			Perinereis cultrifera (Grube, 1840)	0.12	0.28	0.25	0.38	0.34	89.9
			Caulleriella viridis (Langerhans, 1881)	0	0.31	0.25	0.57	0.33	90.23

Table S3. Results of SIMPER analyses (cut-off 90%) used to identify taxa that mostly contribute to (A) polychaete similarity within the same depth and size class, (B) polychaete dissimilarity between depths and size classes in the Aegean Sea. Abund = mean abundance, Sim% = mean similarity, Sim/SD = similarity/standard deviation, Cont% = contribution relative to single taxon, Cum% = cumulative contribution, Av.Ab = mean abundance, Diss% = mean dissimilarity, Diss/SD = dissimilarity/standard deviation.

A	Group	Sim%	Species	Abund	Sim%	Sim/SD	Cont%	Cum%
	3-6 m	49.45	*Hydroides pseudouncinata pseudouncinata* Zibrowius, 1968	4.1	4.36	2.71	8.82	8.82
			Spirobranchus polytrema (Philippi, 1844)	3.04	3.98	5.17	8.04	16.86
			Vermiliopsis infundibulum (Philippi, 1844)	3.24	3.95	2.14	7.99	24.85
			Psamathe fusca Johnston, 1836	2.57	3.43	2.46	6.94	31.79
			Vermiliopsis striaticeps (Grube, 1862)	3.17	3.43	2.32	6.94	38.73
			Notomastus latericeus Sars, 1851	2.88	2.82	1.34	5.7	44.42
			Terebellidae	2.08	2.78	3.23	5.63	50.05
			Harmothoe spinifera (Ehlers, 1864)	1.96	2.73	2.79	5.53	55.58
			Lepidonotus clava (Montagu, 1808)	1.72	2.42	3.85	4.9	60.48
			Serpula vermicularis Linnaeus, 1767	2.64	1.6	0.73	3.24	63.71
			Sclerocheilus minutus Grube, 1863	1.52	1.56	1.23	3.16	66.87
			Lysidice ninetta Audouin & H Milne Edwards, 1833	1.29	1.39	1.47	2.82	69.69
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.32	1.34	1.36	2.7	72.39
			Syllis variegata Grube, 1860	1.49	1.31	1.25	2.64	75.04
			Scoletoma funchalensis (Kinberg, 1865)	1.23	1.24	1.35	2.51	77.55
			Syllis hyalina Grube, 1863	1.42	1.11	0.84	2.25	79.8
			Lumbrineris coccinea (Renier, 1804)	1.19	1.04	0.88	2.11	81.92
			Pseudopotamilla reniformis (Bruguière, 1789)	2.43	0.96	0.52	1.94	83.85
			Haplosyllis spongicola (Grube, 1855)	1.05	0.82	0.87	1.66	85.52
			Parasabella saxicola (Grube, 1861)	0.94	0.59	0.61	1.19	86.7
			Serpula concharum Langerhans, 1880	0.97	0.58	0.61	1.18	87.89
			Syllis gracilis Grube, 1840	1.07	0.56	0.56	1.14	89.03
			Ceratonereis costae (Grube, 1840)	0.95	0.55	0.59	1.11	90.13
	16-19 m	44.89	*Vermiliopsis infundibulum* (Philippi, 1844)	2.67	4.7	1.71	10.47	10.47
			Ceratonereis costae (Grube, 1840)	3.08	4.62	1.37	10.3	20.77
			Hydroides pseudouncinata pseudouncinata Zibrowius, 1968	2.78	3.71	1.13	8.25	29.03
			Psamathe fusca Johnston, 1836	1.89	3.6	3.29	8.01	37.04
			Vermiliopsis striaticeps (Grube, 1862)	2.37	3.15	1.71	7.02	44.06
			Terebellidae	1.97	2.65	1.36	5.89	49.95
			Syllis hyalina Grube, 1863	2.05	2.6	1.31	5.79	55.75
			Harmothoe spinifera (Ehlers, 1864)	1.53	2.51	1.41	5.6	61.34
			Serpula vermicularis Linnaeus, 1767	1.46	2.41	1.15	5.36	66.71
			Haplosyllis spongicola (Grube, 1855)	1.32	1.38	0.87	3.07	69.77
			Pseudopotamilla reniformis (Bruguière, 1789)	1.45	1.35	0.91	3	72.78

Continued

Table S3 continued

A	Group	Sim%	Species	Abund	Sim%	Sim/SD	Cont%	Cum%
			Lepidonotus clava (Montagu, 1808)	1.14	1.31	0.85	2.93	75.7
			Eunice vittata (Delle Chiaje, 1828)	1.19	1.24	0.58	2.76	78.46
			Lysidice ninetta Audouin & H Milne Edwards, 1833	0.94	1.15	0.92	2.56	81.02
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	0.83	1.12	0.9	2.49	83.51
			Spirobranchus polytrema (Philippi, 1844)	1.45	1.01	0.57	2.25	85.76
			Dodecaceria concharum Örsted, 1843	0.68	0.7	0.61	1.56	87.33
			Serpula concharum Langerhans, 1880	1.07	0.66	0.56	1.48	88.8
			Protula sp.	0.77	0.65	0.6	1.46	90.26
	Big	45.48	*Hydroides pseudouncinata pseudouncinata* Zibrowius, 1968	3.12	4.7	2.02	10.34	10.34
			Vermiliopsis infundibulum (Philippi, 1844)	2.67	4.45	2.09	9.79	20.13
			Psamathe fusca Johnston, 1836	2.46	4.01	3.19	8.81	28.94
			Vermiliopsis striaticeps (Grube, 1862)	2.87	3.78	1.71	8.31	37.25
			Harmothoe spinifera (Ehlers, 1864)	1.83	2.78	1.57	6.12	43.37
			Serpula vermicularis Linnaeus, 1767	2.03	2.58	1.34	5.68	49.05
			Spirobranchus polytrema (Philippi, 1844)	2.2	2.47	1.11	5.42	54.47
			Terebellidae	1.79	2.34	1.53	5.13	59.61
			Ceratonereis costae (Grube, 1840)	1.78	1.92	0.78	4.22	63.83
			Syllis hyalina Grube, 1863	1.6	1.68	1.11	3.69	67.52
			Lepidonotus clava (Montagu, 1808)	1.35	1.67	1.03	3.67	71.19
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.23	1.4	1.1	3.08	74.27
			Lysidice ninetta Audouin & H Milne Edwards, 1833	1	1.24	1.13	2.73	76.99
			Lumbrineris coccinea (Renier, 1804)	1.15	1.12	0.79	2.46	79.45
			Notomastus latericeus Sars, 1851	1.62	0.86	0.56	1.88	81.33
			Pseudopotamilla reniformis (Bruguière, 1789)	1.82	0.83	0.55	1.81	83.15
			Haplosyllis spongicola (Grube, 1855)	1	0.64	0.55	1.4	84.55
			Syllis variegata Grube, 1860	1.08	0.61	0.56	1.34	85.89
			Eunice vittata (Delle Chiaje, 1828)	0.88	0.61	0.39	1.34	87.22
			Syllis gracilis Grube, 1840	0.91	0.52	0.6	1.14	88.36
			Scoletoma funchalensis (Kinberg, 1865)	0.65	0.48	0.59	1.06	89.43
			Trypanosyllis zebra (Grube, 1860)	0.9	0.47	0.43	1.03	90.46
	Small	43.09	*Vermiliopsis infundibulum* (Philippi, 1844)	3.46	4.05	1.52	9.4	9.4
			Terebellidae	2.45	3.47	3.17	8.05	17.44
			Hydroides pseudouncinata pseudouncinata Zibrowius, 1968	4.02	3	0.97	6.96	24.4
			Psamathe fusca Johnston, 1836	1.83	2.59	3.14	6.02	30.42
			Vermiliopsis striaticeps (Grube, 1862)	2.58	2.46	2.33	5.7	36.12

Continued

Table S3 continued

A	Group	Sim%	Species	Abund	Sim%	Sim/SD	Cont%	Cum%
			Harmothoe spinifera (Ehlers, 1864)	1.6	2.4	4.6	5.58	41.7
			Lepidonotus clava (Montagu, 1808)	1.58	2.23	4.41	5.17	46.87
			Haplosyllis spongicola (Grube, 1855)	1.52	2.22	3.24	5.14	52.01
			Ceratonereis costae (Grube, 1840)	2.44	2	0.62	4.65	56.66
			Syllis hyalina Grube, 1863	1.98	1.95	0.85	4.52	61.18
			Spirobranchus polytrema (Philippi, 1844)	2.33	1.79	1.02	4.15	65.33
			Pseudopotamilla reniformis (Bruguière, 1789)	2.17	1.59	1.12	3.69	69.02
			Lysidice ninetta Audouin & H Milne Edwards, 1833	1.33	1.34	1.13	3.1	72.12
			Serpula concharum Langerhans, 1880	1.33	1.32	1.07	3.07	75.19
			Arichlidon reyssi (Katzmann, Laubier & Ramos, 1974)	0.88	1.07	1.1	2.49	77.68
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	0.8	1.07	1.1	2.49	80.17
			Notomastus latericeus Sars, 1851	1.77	1.01	0.62	2.35	82.52
			Harmothoe areolata (Grube, 1860)	1.09	0.97	0.61	2.24	84.76
			Eunice vittata (Delle Chiaje, 1828)	0.83	0.72	0.55	1.68	86.45
			Syllis gracilis Grube, 1840	0.88	0.69	0.56	1.61	88.05
			Serpula vermicularis Linnaeus, 1767	2.1	0.67	0.57	1.55	89.6
			Parasabella saxicola (Grube, 1861)	0.97	0.64	0.62	1.5	91.1

B	Groups	Diss%	Species	Abund 3-5 m	Abund 16-18 m	Diss%	Diss/SD	Cont%	Cum%
	3-5 m & 16-18 m	56.18	*Hydroides pseudouncinata pseudouncinata* Zibrowius, 1968	4.1	2.78	2.46	1.42	4.38	4.38
			Notomastus latericeus Sars, 1851	2.88	0.46	2.45	1.66	4.36	8.73
			Ceratonereis costae (Grube, 1840)	0.95	3.08	2.42	1.49	4.3	13.04
			Pseudopotamilla reniformis (Bruguière, 1789)	2.43	1.45	2.19	1.16	3.89	16.93
			Serpula vermicularis Linnaeus, 1767	2.64	1.46	2.13	1.34	3.8	20.72
			Spirobranchus polytrema (Philippi, 1844)	3.04	1.45	2.09	1.73	3.71	24.44
			Vermiliopsis striaticeps (Grube, 1862)	3.17	2.37	1.92	1.24	3.42	27.85
			Syllis hyalina Grube, 1863	1.42	2.05	1.53	1.27	2.72	30.57
			Vermiliopsis infundibulum (Philippi, 1844)	3.24	2.67	1.49	1.22	2.65	33.22
			Sclerocheilus minutus Grube, 1863	1.52	0	1.45	1.66	2.58	35.79
			Syllis variegata Grube, 1860	1.49	0.39	1.25	1.28	2.23	38.03
			Scoletoma funchalensis (Kinberg, 1865)	1.23	0.34	1.17	0.92	2.08	40.1
			Terebellidae	2.08	1.97	1.15	1.29	2.04	42.14
			Eunice vittata (Delle Chiaje, 1828)	0.53	1.19	1.14	1.2	2.03	44.17
			Serpula concharum Langerhans, 1880	0.97	1.07	1.11	1.17	1.98	46.15
			Haplosyllis spongicola (Grube, 1855)	1.05	1.32	1.07	1.25	1.9	48.06
			Lumbrineris coccinea (Renier, 1804)	1.19	0.49	1.06	1.19	1.89	49.94
			Syllis gracilis Grube, 1840	1.07	0.74	1.03	1.1	1.83	51.77
			Psamathe fusca Johnston, 1836	2.57	1.89	1.03	1.26	1.83	53.6

Continued

Table S3 continued

B	Groups	Diss%	Species	Abund 3-5 m	Abund 16-18 m	Diss%	Diss/SD	Cont%	Cum%
			Trypanosyllis zebra (Grube, 1860)	0.75	0.4	0.89	0.84	1.59	55.19
			Lepidonotus clava (Montagu, 1808)	1.72	1.14	0.89	1.24	1.59	56.77
			Spirobranchus triqueter (Linnaeus, 1758)	0.25	0.77	0.87	0.8	1.55	58.32
			Parasabella saxicola (Grube, 1861)	0.94	0.63	0.85	1.17	1.51	59.83
			Leodice torquata (Quatrefages, 1866)	0.91	0	0.83	0.82	1.48	61.31
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.32	0.83	0.8	1.14	1.43	62.73
			Harmothoe spinifera (Ehlers, 1864)	1.96	1.53	0.8	1.08	1.42	64.15
			Dodecaceria concharum Örsted, 1843	0.29	0.68	0.77	1.13	1.38	65.53
			Lysidice ninetta Audouin & H Milne Edwards, 1833	1.29	0.94	0.76	1.23	1.35	66.88
			Protula sp.	0	0.77	0.73	1.03	1.31	68.18
			Harmothoe areolata (Grube, 1860)	0.49	0.53	0.73	0.81	1.3	69.48
			Proceraea sp.	0.4	0.7	0.72	0.94	1.28	70.76
			Syllis prolifera Krohn, 1852	0.39	0.63	0.7	0.93	1.25	72.01
			Arabella iricolor (Montagu, 1804)	0.74	0	0.68	1.06	1.22	73.23
			Arichlidon reyssi (Katzmann, Laubier & Ramos, 1974)	0.69	0.14	0.67	1.08	1.19	74.42
			Nereis rava Ehlers, 1868	0.43	0.49	0.61	0.96	1.09	75.51
			Nereis zonata Malmgren, 1867	0.29	0.55	0.61	0.99	1.09	76.6
			Sabellaria spinulosa (Leuckart, 1849)	0.63	0.14	0.59	0.91	1.04	77.64
			Phyllodoce sp.	0.59	0.14	0.58	0.86	1.04	78.67
			Euphrosine foliosa Audouin & H Milne Edwards, 1833	0.57	0.2	0.58	1.16	1.03	79.71
			Harmothoe antilopes McIntosh, 1876	0.29	0.45	0.58	0.78	1.03	80.74
			Dasybranchus gajolae Eisig, 1887	0.6	0.14	0.57	0.75	1.01	81.75
			Scoletoma fragilis (O.F. Müller, 1776)	0.14	0.49	0.51	0.7	0.91	82.66
			Branchiomma bombyx (Dalyell, 1853)	0.57	0	0.47	0.78	0.83	83.5
			Lysidice unicornis (Grube, 1840)	0.43	0.2	0.46	0.92	0.81	84.31
			Nerinines sp.	0.43	0.14	0.44	0.87	0.79	85.09
			Eunice sp.	0.25	0.29	0.42	0.74	0.75	85.84
			Naineris laevigata (Grube, 1855)	0.43	0.14	0.41	0.87	0.73	86.57
			Palola siciliensis (Grube, 1840)	0.14	0.34	0.39	0.7	0.7	87.27
			Neoamphitrite affinis (Malmgren, 1866)	0.43	0	0.38	0.84	0.68	87.95
			Amphiglena mediterranea (Leydig, 1851)	0.29	0.29	0.38	0.8	0.68	88.63
			Cirriformia tentaculata (Montagu, 1808)	0.34	0.14	0.38	0.73	0.68	89.31
			Piromis eruca (Claparède, 1869)	0.2	0.2	0.33	0.55	0.59	89.9
			Euclymene oerstedii (Claparède, 1863)	0.25	0	0.33	0.4	0.58	90.48
B	**Groups**	**Diss%**	**Species**	**Abund Big**	**Abund Small**	**Diss%**	**Diss/SD**	**Cont%**	**Cum%**
	Big & small	54.23	*Hydroides pseudouncinata pseudouncinata* Zibrowius, 1968	3.12	4.02	2.8	1.66	5.16	5.16
			Ceratonereis costae (Grube, 1840)	1.78	2.44	2.24	1.3	4.12	9.29

Continued

Table S3 continued

B	Groups	Diss%	Species	Abund Big	Abund Small	Diss%	Diss/SD	Cont%	Cum%
			Serpula vermicularis Linnaeus, 1767	2.03	2.1	2.19	1.33	4.04	13.32
			Pseudopotamilla reniformis (Bruguière, 1789)	1.82	2.17	2.07	1.19	3.82	17.14
			Vermiliopsis striaticeps (Grube, 1862)	2.87	2.58	1.91	1.15	3.51	20.65
			Spirobranchus polytrema (Philippi, 1844)	2.2	2.33	1.82	1.38	3.35	24.01
			Notomastus latericeus Sars, 1851	1.62	1.77	1.81	1.29	3.34	27.35
			Vermiliopsis infundibulum (Philippi, 1844)	2.67	3.46	1.69	1.33	3.12	30.46
			Syllis hyalina Grube, 1863	1.6	1.98	1.63	1.2	3	33.46
			Terebellidae	1.79	2.45	1.21	1.12	2.23	35.7
			Serpula concharum Langerhans, 1880	0.85	1.33	1.19	1.31	2.19	37.89
			Haplosyllis spongicola (Grube, 1855)	1	1.52	1.14	1.36	2.1	39.99
			Scoletoma funchalensis (Kinberg, 1865)	0.65	1.03	1.07	0.83	1.98	41.97
			Eunice vittata (Delle Chiaje, 1828)	0.88	0.83	1.06	1.2	1.96	43.93
			Harmothoe areolata (Grube, 1860)	0.19	1.09	1.05	1.09	1.94	45.87
			Lumbrineris coccinea (Renier, 1804)	1.15	0.28	1.04	1.18	1.91	47.78
			Syllis gracilis Grube, 1840	0.91	0.88	1.01	1.14	1.86	49.64
			Psamathe fusca Johnston, 1836	2.46	1.83	0.98	1.24	1.8	51.44
			Syllis variegata Grube, 1860	1.08	0.68	0.97	1.12	1.79	53.22
			Sclerocheilus minutus Grube, 1863	0.88	0.55	0.9	1	1.66	54.88
			Parasabella saxicola (Grube, 1861)	0.68	0.97	0.86	1.17	1.58	56.46
			Trypanosyllis zebra (Grube, 1860)	0.9	0	0.83	0.8	1.54	57.99
			Lepidonotus clava (Montagu, 1808)	1.35	1.58	0.83	1.32	1.53	59.52
			Arichlidon reyssi (Katzmann, Laubier & Ramos, 1974)	0.16	0.88	0.81	1.67	1.5	61.02
			Spirobranchus triqueter (Linnaeus, 1758)	0.6	0.35	0.8	0.75	1.48	62.5
			Lysidice ninetta Audouin & H Milne Edwards, 1833	1	1.33	0.8	1.31	1.48	63.97
			Leodice torquata (Quatrefages, 1866)	0.22	0.88	0.78	0.83	1.45	65.42
			Harmothoe spinifera (Ehlers, 1864)	1.83	1.6	0.78	1.21	1.44	66.86
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.23	0.8	0.75	1.2	1.39	68.25
			Nereis rava Ehlers, 1868	0.33	0.68	0.72	1.12	1.33	69.58
			Proceraea sp.	0.66	0.35	0.72	0.89	1.32	70.9
			Syllis prolifera Krohn, 1852	0.49	0.55	0.7	0.93	1.29	72.19
			Dodecaceria concharum Örsted, 1843	0.64	0.2	0.67	0.92	1.23	73.42
			Phyllodoce sp.	0.19	0.68	0.66	1.16	1.22	74.64
			Harmothoe antilopes McIntosh, 1876	0.3	0.48	0.6	0.82	1.12	75.75
			Nereis zonata Malmgren, 1867	0.43	0.4	0.59	0.99	1.1	76.85
			Protula sp.	0.49	0.2	0.56	0.81	1.03	77.88
			Sabellaria spinulosa (Leuckart, 1849)	0.38	0.4	0.56	0.86	1.03	78.91
			Palola siciliensis (Grube, 1840)	0.11	0.48	0.54	0.81	1	79.91
			Dasybranchus gajolae Eisig, 1887	0.38	0.35	0.52	0.72	0.95	80.86

Continued

Table S3 continued

B	Groups	Diss%	Species	Abund Big	Abund Small	Diss%	Diss/SD	Cont%	Cum%
			Euphrosine foliosa Audouin & H Milne Edwards, 1833	0.38	0.4	0.47	0.92	0.86	81.72
			Scoletoma fragilis (O.F. Müller, 1776)	0.38	0.2	0.47	0.65	0.86	82.58
			Arabella iricolor (Montagu, 1804)	0.46	0.2	0.47	0.8	0.86	83.44
			Eunice sp.	0.22	0.35	0.44	0.73	0.81	84.25
			Branchiomma bombyx (Dalyell, 1853)	0.22	0.4	0.43	0.84	0.79	85.03
			Euclymene oerstedii (Claparède, 1863)	0	0.35	0.43	0.49	0.78	85.82
			Nerinines sp.	0.22	0.4	0.42	0.85	0.78	86.6
			Amphiglena mediterranea (Leydig, 1851)	0.22	0.4	0.4	0.84	0.74	87.34
			Lysidice unicornis (Grube, 1840)	0.38	0.2	0.39	0.79	0.72	88.06
			Syllis krohnii Ehlers, 1864	0	0.48	0.38	0.77	0.71	88.77
			Cirriformia tentaculata (Montagu, 1808)	0.27	0.2	0.36	0.7	0.66	89.43
			Naineris laevigata (Grube, 1855)	0.33	0.2	0.35	0.79	0.64	90.07

Table A4. Results of SIMPER analyses (cut-off 90%) used to identify taxa that mostly contribute to (A) polychaete similarity within the same depth and size class, (B) polychaete dissimilarity between depths and size classes in the Adriatic Sea. Abund = mean abundance, Sim% = mean similarity, Sim/SD = similarity/standard deviation, Cont% = contribution relative to single taxon, Cum% = cumulative contribution, Av.Ab = mean abundance, Diss% = mean dissimilarity, Diss/SD = dissimilarity/standard deviation.

A	Group	Sim%	Species	Abund	Sim%	Sim/SD	Cont%	Cum%
	6-8m	48.95	Terebellidae	4.19	4.5	4.39	9.2	9.2
			Syllis variegata Grube, 1860	3.54	4.08	4.04	8.33	17.53
			Eunice vittata (Delle Chiaje, 1828)	3.82	3.71	2.65	7.59	25.12
			Serpula concharum Langerhans, 1880	3.41	3.67	1.24	7.49	32.6
			Ceratonereis costae (Grube, 1840)	3.11	2.51	1.56	5.12	37.73
			Lysidice ninetta Audouin & H Milne Edwards, 1833	2.34	2.4	1.6	4.9	42.62
			Spirobranchus triqueter (Linnaeus, 1758)	2.36	2.28	1.15	4.66	47.28
			Notomastus latericeus Sars, 1851	3.59	2.21	1.16	4.51	51.79
			Phyllodoce madeirensis Langerhans, 1880	1.69	1.79	1.63	3.65	55.44
			Dodecaceria concharum Örsted, 1843	2.17	1.72	1.48	3.51	58.96
			Nereis rava Ehlers, 1868	2.33	1.72	1.02	3.51	62.46
			Nereis sp.	1.87	1.63	1.15	3.33	65.79
			Leodice torquata (Quatrefages, 1866)	1.96	1.52	1.59	3.1	68.9
			Lysidice unicornis (Grube, 1840)	1.82	1.46	1.66	2.98	71.87
			Vermiliopsis striaticeps (Grube, 1862)	1.55	1.41	1.07	2.87	74.74
			Syllis ferrani Alós & San Martín, 1987	2.22	1.31	0.86	2.67	77.41
			Harmothoe extenuata (Grube, 1840)	1.87	1.23	0.89	2.52	79.94
			Lumbrineris coccinea (Renier, 1804)	1.57	1.07	1.15	2.18	82.11
			Cirriformia tentaculata (Montagu, 1808)	1.17	0.73	0.86	1.48	83.6
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.14	0.61	0.67	1.25	84.85
			Trypanosyllis zebra (Grube, 1860)	0.99	0.61	0.66	1.25	86.1
			Harmothoe areolata (Grube, 1860)	0.97	0.6	0.65	1.22	87.32
			Polynoe scolopendrina Savigny, 1822	1	0.52	0.64	1.06	88.38
			Exogone dispar (Webster, 1879)	0.68	0.5	0.65	1.02	89.41
			Syllis gerlachi (Hartmann-Schröder, 1960)	1	0.47	0.67	0.96	90.37
	3-6m	49.82	Terebellidae	4.13	3.99	4.43	8.01	8.01

Continued

Table S4 continued

A	Group	Sim%	Species	Abund	Sim%	Sim/SD	Cont%	Cum%
			Lysidice ninetta Audouin & H Milne Edwards, 1833	3.79	3.44	3.16	6.9	14.92
			Syllis variegata Grube, 1860	3.15	2.95	2.13	5.92	20.83
			Notomastus latericeus Sars, 1851	3.22	2.59	1.96	5.2	26.03
			Serpula concharum Langerhans, 1880	3.65	2.52	0.98	5.06	31.09
			Ceratonereis costae (Grube, 1840)	3.19	2.51	1.01	5.03	36.12
			Eunice vittata (Delle Chiaje, 1828)	2.81	2.37	1.65	4.76	40.88
			Nereis rava Ehlers, 1868	2.5	1.86	1.2	3.73	44.61
			Vermiliopsis striaticeps (Grube, 1862)	2.57	1.78	1.2	3.58	48.2
			Dodecaceria concharum Örsted, 1843	1.75	1.77	1.66	3.56	51.76
			Lysidice unicornis (Grube, 1840)	2.25	1.76	1.49	3.53	55.29
			Leodice torquata (Quatrefages, 1866)	1.8	1.72	1.99	3.46	58.75
			Harmothoe extenuata (Grube, 1840)	1.63	1.64	1.65	3.29	62.04
			Syllis gerlachi (Hartmann-Schröder, 1960)	2.3	1.42	1.09	2.86	64.89
			Syllis ferrani Alós & San Martín, 1987	1.89	1.21	0.97	2.43	67.32
			Spirobranchus triqueter (Linnaeus, 1758)	1.79	1.16	1.09	2.33	69.65
			Cirriformia tentaculata (Montagu, 1808)	1.25	0.97	0.9	1.95	71.6
			Haplosyllis spongicola (Grube, 1855)	1.29	0.85	1	1.71	73.3
			*Hydroides pseudouncinata pseudouncinat*a Zibrowius, 1968	1.03	0.83	1.14	1.66	74.96
			Phyllodoce madeirensis Langerhans, 1880	1.39	0.81	0.83	1.62	76.58
			Trypanosyllis zebra (Grube, 1860)	1.04	0.8	0.94	1.6	78.18
			Palola siciliensis (Grube, 1840)	1.08	0.71	0.99	1.42	79.6
			Nereis sp.	1.37	0.63	0.69	1.26	80.86
			Scoletoma impatiens (Claparède, 1868)	0.94	0.57	0.82	1.15	82.01
			Syllis alternata Moore, 1908	1.09	0.57	0.67	1.14	83.15
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	0.96	0.55	0.65	1.1	84.25
			Lumbrineris coccinea (Renier, 1804)	1.02	0.47	0.7	0.94	85.18
			Exogone dispar (Webster, 1879)	0.97	0.44	0.68	0.88	86.07

Continued

Table S4 continued

A	Group	Sim%	Species	Abund	Sim%	Sim/SD	Cont%	Cum%
			Polynoidae	0.99	0.43	0.47	0.87	86.93
			Sabellaria sp.	0.79	0.43	0.68	0.86	87.79
			Spionidae	0.92	0.42	0.54	0.85	88.64
			Gyptis sp.	0.64	0.4	0.55	0.81	89.45
			Syllis gerundensis (Alós & Campoy, 1981)	0.83	0.38	0.58	0.76	90.21
	Big	59.68	Terebellidae	5.51	4.69	5.55	7.85	7.85
			Notomastus latericeus Sars, 1851	5.22	4.18	5.64	7.01	14.86
			Syllis variegata Grube, 1860	4	3.26	3.39	5.46	20.32
			Lysidice ninetta Audouin & H Milne Edwards, 1833	4.08	3.14	3.48	5.26	25.58
			Eunice vittata (Delle Chiaje, 1828)	4.27	3.01	1.67	5.05	30.63
			Syllis ferrani Alós & San Martín, 1987	3.29	2.8	4.51	4.69	35.32
			Nereis rava Ehlers, 1868	3.52	2.56	2.56	4.28	39.6
			Lysidice unicornis (Grube, 1840)	2.92	2.32	3.25	3.88	43.48
			Ceratonereis costae (Grube, 1840)	3.75	2.27	1.17	3.81	47.29
			Serpula concharum Langerhans, 1880	2.59	1.71	1.36	2.86	50.16
			Syllis gerlachi (Hartmann-Schröder, 1960)	2.73	1.69	1.37	2.83	52.99
			Phyllodoce madeirensis Langerhans, 1880	2.09	1.56	1.33	2.61	55.6
			Leodice torquata (Quatrefages, 1866)	2.39	1.48	1.32	2.48	58.08
			Nereis sp.	1.97	1.48	1.4	2.47	60.55
			Harmothoe extenuata (Grube, 1840)	2.16	1.43	1.5	2.4	62.95
			Dodecaceria concharum Örsted, 1843	2.24	1.37	1.56	2.3	65.25
			Lumbrineris coccinea (Renier, 1804)	2.01	1.37	1.75	2.3	67.55
			Trypanosyllis zebra (Grube, 1860)	1.46	1.13	1.85	1.9	69.45
			Vermiliopsis striaticeps (Grube, 1862)	1.84	1.11	1.3	1.86	71.31
			Syllis alternata Moore, 1908	1.59	1.09	1.27	1.83	73.14
			Polynoe scolopendrina Savigny, 1822	1.4	1.08	1.73	1.81	74.96
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.5	1.07	1.31	1.8	76.75
			Spirobranchus triqueter (Linnaeus, 1758)	1.78	1.04	1.23	1.74	78.49
			Palola siciliensis (Grube, 1840)	1.34	1.01	1.95	1.69	80.18
			Haplosyllis spongicola (Grube, 1855)	1.47	0.84	1.06	1.4	81.59

Continued

Table S4 continued

A	Group	Sim%	Species	Abund	Sim%	Sim/SD	Cont%	Cum%
			Syllis beneliahuae (Campoy & Alquézar, 1982)	1.32	0.82	1.29	1.37	82.96
			Cirriformia tentaculata (Montagu, 1808)	1.43	0.79	1.03	1.33	84.29
			Exogone dispar (Webster, 1879)	1.21	0.75	1.35	1.25	85.54
			Syllis gerundensis (Alós & Campoy, 1981)	1.54	0.71	0.77	1.2	86.74
			Harmothoe spinifera (Ehlers, 1864)	1.44	0.69	0.8	1.16	87.9
			Dorvillea sp.	1.07	0.61	1.03	1.03	88.92
			*Scoletoma impatien*s (Claparède, 1868)	1.07	0.6	1.04	1.01	89.93
			Paraehlersia ferrugina (Langerhans, 1881)	0.92	0.46	0.82	0.76	90.7
	Small	48.15	*Serpula concharum* Langerhans, 1880	4.45	4.93	1.23	10.25	10.25
			Terebellidae	2.91	4.69	5.66	9.74	19.99
			Syllis variegata Grube, 1860	2.67	3.84	2.14	7.98	27.97
			Eunice vittata (Delle Chiaje, 1828)	2.25	3.3	2.48	6.85	34.82
			Lysidice ninetta Audouin & H Milne Edwards, 1833	2.41	3.05	1.8	6.34	41.16
			Ceratonereis costae (Grube, 1840)	2.61	2.89	1.14	5.99	47.15
			*Dodecaceria concharu*m Örsted, 1843	1.63	2.27	1.71	4.71	51.87
			Vermiliopsis striaticeps (Grube, 1862)	2.47	2.25	1.18	4.68	56.54
			Spirobranchus triqueter (Linnaeus, 1758)	2.24	2.18	1.14	4.53	61.07
			Leodice torquata (Quatrefages, 1866)	1.39	2.15	3.7	4.46	65.53
			Notomastus latericeus Sars, 1851	1.66	1.78	1.12	3.7	69.23
			Harmothoe extenuata (Grube, 1840)	1.32	1.6	1.03	3.32	72.55
			Nereis rava Ehlers, 1868	1.43	1.42	0.7	2.94	75.49
			Lysidice unicornis (Grube, 1840)	1.31	1.24	1.09	2.58	78.07
			Phyllodoce madeirensis Langerhans, 1880	0.98	1.03	0.87	2.15	80.22
			Cirriformia tentaculata (Montagu, 1808)	1.03	0.99	0.82	2.06	82.28
			Nereis sp.	1.21	0.63	0.55	1.32	83.6
			Syllis gerlachi (Hartmann-Schröder, 1960)	0.91	0.55	0.57	1.14	84.73
			Haplosyllis spongicola (Grube, 1855)	0.7	0.49	0.59	1.02	85.76
			Harmothoe areolata (Grube, 1860)	0.79	0.49	0.57	1.02	86.77

Continued

Table S4 continued

A	Group	Sim%	Species		Abund	Sim%	Sim/SD	Cont%	Cum%
			Hydroides pseudouncinata pseudouncinata Zibrowius, 1968		0.7	0.47	0.58	0.98	87.76
			Trypanosyllis zebra (Grube, 1860)		0.61	0.47	0.47	0.98	88.73
			Syllis ferrani Alós & San Martín, 1987		0.85	0.45	0.46	0.93	89.66
			Scoletoma impatiens (Claparède, 1868)		0.72	0.38	0.47	0.78	90.45
B	**Groups**	**Diss%**	**Species**	**Abund Group 3-6 m**	**Abund Group 6 -8m**	**Diss%**	**Diss/SD**	**Cont%**	**Cum%**
	6-8m & 3-6m	50.71	*Serpula concharum* Langerhans, 1880	3.41	3.65	1.95	1.2	3.85	3.85
			Notomastus latericeus Sars, 1851	3.59	3.22	1.78	1.31	3.51	7.36
			Ceratonereis costae (Grube, 1840)	3.11	3.19	1.72	1.4	3.38	10.74
			Eunice vittata (Delle Chiaje, 1828)	3.82	2.81	1.44	1.51	2.84	13.58
			Nereis rava Ehlers, 1868	2.33	2.5	1.34	1.3	2.63	16.22
			Spirobranchus triqueter (Linnaeus, 1758)	2.36	1.79	1.31	1.04	2.59	18.81
			Lysidice ninetta Audouin & H Milne Edwards, 1833	2.34	3.79	1.31	1.42	2.58	21.39
			Terebellidae	4.19	4.13	1.28	1.31	2.52	23.91
			Vermiliopsis striaticeps (Grube, 1862)	1.55	2.57	1.27	1.24	2.51	26.41
			Syllis gerlachi (Hartmann-Schröder, 1960)	1	2.3	1.25	1.42	2.46	28.87
			Syllis ferrani Alós & San Martín, 1987	2.22	1.89	1.24	1.33	2.44	31.32
			Nereis sp.	1.87	1.37	1.07	1.2	2.1	33.42
			Syllis variegata Grube, 1860	3.54	3.15	1.02	1.11	2.02	35.44
			Lysidice unicornis (Grube, 1840)	1.82	2.25	1.02	1.45	2.02	37.45
			Harmothoe extenuata (Grube, 1840)	1.87	1.63	0.95	1.44	1.87	39.32
			Dodecaceria concharum Örsted, 1843	2.17	1.75	0.92	1.32	1.81	41.14
			Leodice torquata (Quatrefages, 1866)	1.96	1.8	0.89	1.33	1.75	42.89
			Lumbrineris coccinea (Renier, 1804)	1.57	1.02	0.89	1.19	1.75	44.63
			Phyllodoce madeirensis Langerhans, 1880	1.69	1.39	0.85	1.33	1.68	46.31
			Syllis gerundensis (Alós & Campoy, 1981)	1.03	0.83	0.8	1.18	1.58	47.89
			Cirriformia tentaculata (Montagu, 1808)	1.17	1.25	0.78	1.31	1.54	49.43
			Syllis alternata Moore, 1908	0.97	1.09	0.78	1.12	1.53	50.96

Continued

Table S4 continued

B	Groups	Diss%	Species	Abund Group 3-6 m	Abund Group 6 -8m	Diss%	Diss/SD	Cont%	Cum%
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.14	0.96	0.76	1.15	1.5	52.45
			Polynoidae	0.35	0.99	0.73	0.94	1.44	53.89
			Harmothoe areolata (Grube, 1860)	0.97	0.92	0.72	1.13	1.42	55.31
			Haplosyllis spongicola (Grube, 1855)	0.74	1.29	0.72	1.31	1.42	56.74
			Lysidice collaris Grube, 1870	0.1	1.04	0.66	0.77	1.31	58.04
			Hydroides pseudouncinata pseudouncinata Zibrowius, 1968	0.27	1.03	0.66	1.3	1.3	59.34
			Harmothoe spinifera (Ehlers, 1864)	0.81	0.71	0.66	0.97	1.3	60.64
			Spionidae	0.48	0.92	0.65	0.95	1.29	61.92
			Scoletoma impatiens (Claparède, 1868)	0.81	0.94	0.64	1.19	1.26	63.19
			Polynoe scolopendrina Savigny, 1822	1	0.57	0.63	1.12	1.25	64.43
			Palola siciliensis (Grube, 1840)	0.85	1.08	0.62	1.19	1.22	65.66
			Trypanosyllis zebra (Grube, 1860)	0.99	1.04	0.61	1.16	1.2	66.86
			Sabellaria sp.	0.69	0.79	0.6	1.11	1.19	68.05
			Exogone dispar (Webster, 1879)	0.68	0.97	0.59	1.23	1.17	69.22
			Syllis beneliahuae (Campoy & Alquézar, 1982)	0.4	0.88	0.59	1.02	1.17	70.39
			Pseudoleiocapitella fauveli Harmelin, 1964	0.17	0.82	0.54	0.83	1.06	71.44
			Dorvillea sp.	0.52	0.66	0.51	1.09	1.01	72.46
			Syllis prolifera Krohn, 1852	0.38	0.52	0.49	0.82	0.96	73.42
			Harmothoe gilchristi Day, 1960	0.69	0.26	0.48	0.9	0.95	74.37
			Syllis gracilis Grube, 1840	0.4	0.46	0.47	0.77	0.93	75.3
			Scoletoma funchalensis (Kinberg, 1865)	0.66	0.29	0.47	0.95	0.93	76.23
			Sabellidae	0.5	0.54	0.47	0.92	0.92	77.16
			Serpula vermicularis Linnaeus, 1767	0.42	0.46	0.47	0.77	0.92	78.08
			Gyptis sp.	0.1	0.64	0.46	0.97	0.91	78.99
			Harmothoe fragilis Moore, 1910	0.36	0.34	0.41	0.69	0.82	79.8
			Paraehlersia ferrugina (Langerhans, 1881)	0.3	0.6	0.41	0.93	0.81	80.61
			Syllis armillaris (O.F. Müller, 1776)	0.57	0.29	0.41	0.91	0.81	81.42
			Vermiliopsis infundibulum (Philippi, 1844)	0.2	0.56	0.4	0.77	0.78	82.2

Continued

Table S4 continued

B	Groups	Diss%	Species	Abund Group 3-6 m	Abund Group 6 -8m	Diss%	Diss/SD	Cont%	Cum%
			Maldanidae	0.4	0.43	0.39	0.89	0.77	82.98
			Pterocirrus macroceros (Grube, 1860)	0.31	0.43	0.39	0.74	0.77	83.75
			Flabelliderma cinari Karhan, Simboura & Salazar-Vallejo, 2012	0.38	0.36	0.38	0.84	0.75	84.5
			Caulleriella viridis (Langerhans, 1881)	0	0.52	0.36	0.83	0.72	85.21
			Myrianida sp.	0.17	0.4	0.34	0.78	0.67	85.89
			Paleanotus chrysolepis Schmarda, 1861	0.3	0.33	0.32	0.75	0.63	86.52
			Aphelochaeta filiformis (Keferstein, 1862)	0.34	0.23	0.31	0.73	0.6	87.12
			Serpula sp.	0.2	0.35	0.3	0.75	0.6	87.72
			Paucibranchia fallax (Marion & Bobretzky, 1875)	0.28	0.27	0.3	0.74	0.59	88.31
			Exogone rostrata Naville, 1933	0.1	0.48	0.3	0.7	0.59	88.9
			Lepidonotus clava (Montagu, 1808)	0.1	0.42	0.28	0.73	0.55	89.45
			Scoletoma fragilis (O.F. Müller, 1776)	0.38	0.07	0.28	0.66	0.54	89.99
			Perinereis cultrifera (Grube, 1840)	0	0.47	0.27	0.38	0.54	90.53
	Big & Small	54.28	*Notomastus latericeus* Sars, 1851	5.22	1.66	2.3	1.68	4.24	4.24
			Serpula concharum Langerhans, 1880	2.59	4.45	1.94	1.47	3.58	7.82
			Terebellidae	5.51	2.91	1.73	1.67	3.18	11
			Ceratonereis costae (Grube, 1840)	3.75	2.61	1.7	1.38	3.12	14.13
			Eunice vittata (Delle Chiaje, 1828)	4.27	2.25	1.65	1.71	3.03	17.16
			Syllis ferrani Alós & San Martín, 1987	3.29	0.85	1.64	1.83	3.01	20.17
			Nereis rava Ehlers, 1868	3.52	1.43	1.5	1.35	2.76	22.94
			Syllis gerlachi (Hartmann-Schröder, 1960)	2.73	0.91	1.41	1.49	2.59	25.53
			Lysidice ninetta Audouin & H Milne Edwards, 1833	4.08	2.41	1.35	1.41	2.49	28.02
			Lysidice unicornis (Grube, 1840)	2.92	1.31	1.17	1.49	2.16	30.18
			Vermiliopsis striaticeps (Grube, 1862)	1.84	2.47	1.17	1.37	2.15	32.33
			Syllis variegata Grube, 1860	4	2.67	1.12	1.19	2.06	34.39
			Spirobranchus triqueter (Linnaeus, 1758)	1.78	2.24	1.12	1.24	2.05	36.44
			Nereis sp.	1.97	1.21	1.07	1.57	1.96	38.41
			Lumbrineris coccinea (Renier, 1804)	2.01	0.53	1.06	1.33	1.96	40.37

Continued

Table S4 continued

B	Groups	Diss%	Species	Abund Group 3-6 m	Abund Group 6 -8m	Diss%	Diss/SD	Cont%	Cum%
			Leodice torquata (Quatrefages, 1866)	2.39	1.39	0.99	1.4	1.83	42.19
			Phyllodoce madeirensis Langerhans, 1880	2.09	0.98	0.99	1.52	1.82	44.01
			Syllis alternata Moore, 1908	1.59	0.53	0.91	1.39	1.68	45.69
			Syllis gerundensis (Alós & Campoy, 1981)	1.54	0.34	0.91	1.26	1.68	47.37
			Polynoe scolopendrina Savigny, 1822	1.4	0.13	0.91	1.9	1.67	49.04
			Harmothoe spinifera (Ehlers, 1864)	1.44	0.11	0.89	1.25	1.65	50.68
			Harmothoe extenuata (Grube, 1840)	2.16	1.32	0.89	1.26	1.63	52.31
			Dodecaceria concharum Örsted, 1843	2.24	1.63	0.86	1.13	1.59	53.9
			Lumbrineris latreilli Audouin & Milne Edwards, 1833	1.5	0.61	0.85	1.53	1.56	55.46
			Syllis beneliahuae (Campoy & Alquézar, 1982)	1.32	0.11	0.84	1.42	1.55	57.01
			Haplosyllis spongicola (Grube, 1855)	1.47	0.7	0.75	1.38	1.38	58.39
			Cirriformia tentaculata (Montagu, 1808)	1.43	1.03	0.74	1.3	1.35	59.74
			Polynoidae	0.87	0.61	0.72	0.95	1.33	61.07
			Lysidice collaris Grube, 1870	1.01	0.34	0.72	0.78	1.33	62.39
			Harmothoe areolata (Grube, 1860)	1.09	0.79	0.7	1.17	1.28	63.68
			Palola siciliensis (Grube, 1840)	1.34	0.67	0.68	1.42	1.25	64.93
			Spionidae	1.02	0.49	0.66	1	1.22	66.14
			Trypanosyllis zebra (Grube, 1860)	1.46	0.61	0.65	1.4	1.2	67.35
			Exogone dispar (Webster, 1879)	1.21	0.53	0.65	1.4	1.19	68.54
			Dorvillea sp.	1.07	0.19	0.64	1.37	1.18	69.72
			Scoletoma impatiens (Claparède, 1868)	1.07	0.72	0.61	1.35	1.12	70.84
			Sabellaria sp.	1.08	0.45	0.6	1.14	1.11	71.95
			Paraehlersia ferrugina (Langerhans, 1881)	0.92	0.08	0.58	1.21	1.06	73.01
			Pseudoleiocapitella fauveli Harmelin, 1964	0.76	0.38	0.55	0.85	1	74.02
			Hydroides pseudouncinata pseudouncinata Zibrowius, 1968	0.75	0.7	0.5	1.14	0.92	74.94
			Syllis prolifera Krohn, 1852	0.62	0.32	0.49	0.83	0.9	75.84
			Syllis gracilis Grube, 1840	0.54	0.34	0.46	0.8	0.85	76.69
			Scoletoma funchalensis (Kinberg, 1865)	0.63	0.26	0.45	0.94	0.83	77.51

Continued

Table S4 continued

B	Groups	Diss%	Species	Abund Group 3-6 m	Abund Group 6 -8m	Diss%	Diss/SD	Cont%	Cum%
			Pterocirrus macroceros (Grube, 1860)	0.63	0.15	0.44	0.78	0.8	78.32
			Sabellidae	0.6	0.46	0.43	1.03	0.8	79.12
			Harmothoe gilchristi Day, 1960	0.55	0.32	0.43	0.86	0.79	79.91
			Exogone rostrata Naville, 1933	0.68	0	0.43	0.88	0.79	80.7
			Serpula vermicularis Linnaeus, 1767	0.35	0.53	0.43	0.81	0.79	81.48
			Vermiliopsis infundibulum (Philippi, 1844)	0.42	0.42	0.4	0.91	0.73	82.22
			Paleanotus chrysolepis Schmarda, 1861	0.58	0.08	0.39	0.86	0.73	82.94
			Gyptis sp.	0.43	0.42	0.39	0.96	0.71	83.66
			Maldanidae	0.54	0.31	0.38	0.87	0.71	84.37
			Syllis armillaris (O.F. Müller, 1776)	0.44	0.37	0.38	0.92	0.7	85.06
			Harmothoe fragilis Moore, 1910	0.35	0.36	0.37	0.73	0.68	85.74
			Flabelliderma cinari Karhan, Simboura & Salazar-Vallejo, 2012	0.45	0.29	0.37	0.95	0.67	86.42
			Aphelochaeta filiformis (Keferstein, 1862)	0.45	0.11	0.35	0.85	0.65	87.06
			Leiochrides australis Augener, 1914	0.51	0.11	0.33	0.66	0.61	87.67
			Branchiosyllis exilis (Gravier, 1900)	0.48	0	0.31	0.76	0.57	88.24
			Caulleriella viridis (Langerhans, 1881)	0.33	0.29	0.31	0.85	0.56	88.81
			Lepidonotus clava (Montagu, 1808)	0.4	0.19	0.3	0.78	0.55	89.36
			Paucibranchia fallax (Marion & Bobretzky, 1875)	0.4	0.15	0.3	0.77	0.55	89.9
			Perinereis cultrifera (Grube, 1840)	0.26	0.3	0.3	0.42	0.55	90.45

Table A5. Results of DISTLM analyses testing the response of biological data to environmental variables. Adj R2 = adjusted R-squared; SS = sums of squares; Pseudo-F = pseudo-F ratio; P = permutational probability; Prop. = proportion of the variation; Cumul = cumulative proportion of the variation. Significant P-values ($P < 0.05$) are in bold.

Species abundance total matrix							
MARGINAL TESTS							
Variable	SS(trace)	Pseudo-F	P	Prop.			
Depth	5449.8	2.796	**0.013**	0.070			
Volume	5372.3	2.754	**0.013**	0.069			
SEQUENTIAL TESTS							
Variable	Adj R^2	SS(trace)	Pseudo-F	P	Prop.	Cumul.	res.df
Depth	0.045136	5449.8	2.796	**0.012**	0.070	0.070	37
Volume	0.090891	5311	2.862	**0.011**	0.068	0.139	36
Species abundance Aegean samples matrix							
MARGINAL TESTS							
Variable	SS(trace)	Pseudo-F	P	Prop.			
Depth	2736.7	1.917	**0.026**	0.138			
Volume	1661	1.095	0.360	0.084			
SEQUENTIAL TESTS							
Variable	Adj R^2	SS(trace)	Pseudo-F	P	Prop.	Cumul.	res.df
Depth	0.066	2736.7	1.917	**0.027**	0.138	0.138	12
Species abundance Adriatic samples matrix							
MARGINAL TESTS							
Variable	SS(trace)	Pseudo-F	P	Prop.			
Depth	1770.7	1.358	**0.157**	0.056			
Volume	5648.6	4.975	**0.0001**	0.178			
SEQUENTIAL TESTS							
Variable	Adj R^2	SS(trace)	Pseudo-F	P	Prop.	Cumul.	res.df
Volume	0.1421	5648.6	4.975	**0.0001**	0.178	0.178	23
Depth	0.17159	1994	1.819	**0.027**	0.063	0.241	22
Feeding guild matrix							
MARGINAL TESTS							
Variable	SS(trace)	Pseudo-F	P	Prop.			
Depth	2739.3	5.293	**0.003**	0.125			
Volume	2895.5	5.640	**0.002**	0.132			
SEQUENTIAL TESTS							
Variable	Adj R^2	SS(trace)	Pseudo-F	P	Prop.	Cumul.	res.df
Volume	0.10883	2895.5	5.640	**0.002**	0.132	0.132	37
Depth	0.20484	2504.4	5.468	**0.002**	0.114	0.247	36
Biogeography matrix							
MARGINAL TESTS							
Variable	SS(trace)	Pseudo-F	P	Prop.			
Depth	2287.7	5.110	**0.004**	0.121			
Volume	2239.8	4.988	**0.003**	0.119			
SEQUENTIAL TESTS							
Variable	Adj R^2	SS(trace)	Pseudo-F	P	Prop.	Cumul.	res.df
Depth	0.097593	2287.7	5.110	**0.004**	0.121	0.121	37
Volume	0.18766	2056.4	5.102	**0.002**	0.109	0.230	36

Table A6. Results of KW chi-squared testing differences of biological indices between areas, depths and colony sizes. S = polychaete richness, N = polychaete abundance, J = Pielou equitability index, H'= Shannon diversity index, Sf = feeding richness, Hf = feeding diversity, df = degrees of freedom. Significant p-values ($p < 0.05$) are in bold.

	Geographic area			Area + Depth			Area + Size		
	KW chi-squared	***df***	***p***	**KW chi-squared**	***df***	***p***	**KW chi-squared**	***df***	***p***
S	6.06	*1*	**0.0138**	8.55	*3*	**0.0358**	19.93	3	**0.0002**
N	5.21	*1*	**0.0224**	7.49	*3*	0.0579	18.58	3	**0.0003**
J	0.17	*1*	0.6819	0.79	*3*	0.8525	2.97	3	0.3957
H'	8.23	*1*	**0.0041**	10.48	*3*	**0.0149**	19.59	3	**0.0002**
Sf	16.88	*1*	**0.00004**	14.14	*3*	**0.0027**	26.06	3	**0.00001**
Hf	12.76	*1*	**0.0004**	18.76	*3*	**0.0003**	15.94	3	**0.0012**

Table A7. Results of pairwise comparisons testing differences of biological indices between areas. (Ad = adriatic, Ae = Aegean), depths (3-6m, 6-8m, 15-19m) and colony sizes (small= <1 dm^3, big= >1 dm^3). S = taxa richness, N = abundance, H′ = Shannon-Wiener diversity index , J = Pielou index of equitability, feeding richness (Sf) and feeding diversity (Hf). Significant p-values ($p < 0.05$) are in bold.

Area + Depth				**Area + Size**			
S				**S**			
	Ad_Big	Ad_Small	Ae_Big		Ad_3-6m	Ad_6-8m	Ae_15-19m
Ad_Small	**0.0007**			Ad_6-8m	1		
Ae_Big	**0.0034**	1		Ae_15-19m	0.06	0.27	
Ae_Small	0.0580	1	1	Ae_3-6m	0.72	1	1
N				**N**			
	Ad_Big	Ad_Small	Ae_Big		Ad_3-6m	Ad_6-8m	Ae_15-19m
Ad_Small	**0.0003**			Ad_6-8m	1		
Ae_Big	**0.0003**	1		Ae_15-19m	0.128	0.081	
Ae_Small	0.1164	1	1	Ae_3-6m	1	1	0.769
J				**J**			
	Ad_Big	Ad_Small	Ae_Big		Ad_3-6m	Ad_6-8m	Ae_15-19m
Ad_Small	1			Ad_6-8m	1		
Ae_Big	1	1		Ae_15-19m	1	1	
Ae_Small	1	1	1	Ae_3-6m	1	1	1
H'				**H'**			
	Ad_Big	Ad_Small	Ae_Big		Ad_3-6m	Ad_6-8m	Ae_15-19m
Ad_Small	**0.0016**			Ad_6-8m	0.863		
Ae_Big	**0.0056**			Ae_15-19m	0.082	0.798	
Ae_Small	**0.0019**	0.5672	0.8811	Ae_3-6m	**0.04**	1	1
Sf				**Sf**			
	Ad_Big	Ad_Small	Ae_Big		Ad_3-6m	Ad_6-8m	Ae_15-19m
Ad_Small	**1**			Ad_6-8m	**0.0018**		
Ae_Big	**0.0056**	**0.0062**		Ae_15-19m	**0.0007**	**0.0384**	
Ae_Small	0.1577	0.0586	0.1704	Ae_3-6m	**0.0058**	0.8462	0.8733
Hf				**Hf**			
	Ad_Big	Ad_Small	Ae_Big		Ad_3-6m	Ad_6-8m	Ae_15-19m
Ad_Small	1			Ad_6-8m	0.46104		
Ae_Big	**0.0046**	**0.0185**		Ae_15-19m	**0.00049**	0.2185	
Ae_Small	0.1571	0.6528	1	Ae_3-6m	**0.02327**	1	1

Table A8. Results of SIMPER analyses (cut-off 100%) used to identify biogeographic groups that mostly contribute to similarity (A) within Aegean and Adriatic, and (B) dissimilarity (B) between Aegean and Adriatic Sea. Abund = mean abundance, Sim% = mean similarity, Sim/SD = similarity/standard deviation, Cont% = contribution relative to single taxon, Cum% = cumulative contribution, Av.Ab = mean abundance, Diss% = mean dissimilarity, Diss/SD = dissimilarity/standard deviation. Explanation of abbreviations are in Table A1.

A	Group	Sim%	Biogographic groups	Abund	Sim%	Sim/SD	Cont%	Cum%
	Aegean	75.96	c	7.75	30.9	7.81	40.67	40.67
			am	6.93	24.41	3.93	32.14	72.81
			NA	2.85	10.01	2.81	13.17	85.98
			amrip	1.93	5.74	1.5	7.56	93.55
			amip	1.12	3.34	1.17	4.39	97.94
			amr	0.58	0.63	0.32	0.83	98.77
			m	0.42	0.48	0.34	0.64	99.41
			d	0.46	0.45	0.35	0.59	100
	Adriatic	73.57	c	8.89	19.62	4.91	26.67	26.67
			am	7.22	15.9	3.67	21.61	48.29
			NA	5.64	12.45	5.04	16.92	65.21
			amip	2.52	5.34	2.61	7.26	72.47
			amrip	2.63	5.28	3.48	7.17	79.64
			amr	2.61	4.85	1.78	6.59	86.23
			m	2.76	4.19	1.29	5.69	91.93
			amp	1.96	3.93	1.76	5.34	97.26
			d	1.3	1.7	0.92	2.31	99.58
			aa	0.28	0.15	0.27	0.21	99.78
			iam	0.23	0.09	0.18	0.12	99.9
			mrip	0.23	0.07	0.18	0.1	100

B	Groups	Diss%	Biogographic groups	Abund Aegean	Abund Adriatic	Diss%	Diss/SD	Cont%	Cum%
	Aegean & Adriatic	33.9	am	6.93	7.22	5.08	1.33	14.97	14.97
			c	7.75	8.89	4.95	1.51	14.59	29.56
			NA	2.85	5.64	4.79	1.61	14.14	43.7
			m	0.42	2.76	3.96	1.65	11.69	55.39
			amr	0.58	2.61	3.78	1.46	11.16	66.55
			amp	0	1.96	3.39	2.05	10.01	76.56
			amip	1.12	2.52	2.56	1.32	7.56	84.12
			amrip	1.93	2.63	2.32	1.31	6.85	90.97
			d	0.46	1.3	1.93	1.25	5.68	96.65
			aa	0	0.28	0.41	0.62	1.22	97.88
			iam	0	0.23	0.38	0.5	1.13	99
			mrip	0	0.23	0.34	0.47	1	100