

# Mediterranean Syllidae (Annelida: Polychaeta) revisited: biogeography, diversity and species fidelity to environmental features

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**Appendix 1.** Inventory of Mediterranean Syllidae with the literature-based (see text) presence-absence matrix of the species in analysed coastlines (SP: Spanish; NWI: North Western Italian; TU: Turkish Aegean; CY: Cypriot; GR: Greek Aegean; IS: Israeli; ES: Eastern Sicilian; SI: Ionian Salento; SA: Adriatic Salento; NA: North Adriatic). BG and BC represent respectively the literature-based species biogeographic (c: cosmopolitan; d: disjunct distribution; ct: circum-tropical; iam: Indo-Atlantic-Mediterranean; aa: amphi-Atlantic; im: Indo-Mediterranean; am: Atlantic-Mediterranean; m: endemic Mediterranean) and bioclimatic (C: cold; TC: temperate-cold; T: temperate; TW: temperate-warm; W: warm; E: eurythermic) categories (Hartman 1959, 1965, Hartman-Schröder 1965, 1978, 1979, 1989, 1990, Day 1967, Imagina 1967, Westheide 1974, Ben-Ehliau 1977a,b, Perkins 1981, Uebelacker 1984, Russel 1990, Licher 1999, San Martín 2003). Uncertain findings are reported below

Mediterranean Syllidae (+ = presence)	BC	BG	Analysed coastlines									Main basins			
			SP	NWI	TU	CY	GR	IS	ES	SI	SA	NA	WM	EM	A
<i>Amblyosyllis formosa</i> (Claparède, 1863)	E	c	+	+	+	+	+	+	+		+	+	+	+	+
<i>A. lineata</i> Grube, 1863	TC	am									+				+
<i>A. madeirensis</i> Langerhans, 1879	TW	ct	+				+				+		+	+	+
<i>Anoplosyllis edentula</i> Claparède, 1868	TC	am	+	+		+	+				+		+	+	+
<i>Autolytus alexandri</i> Malmgren, 1867	TC	am											+		+
<i>A. benazzii</i> Cognetti, 1953	T	am	+	+	+	+	+			+	+	+	+	+	+
<i>A. brachycephalus</i> (Marenzeller, 1874)	TC	am	+		+	+	+	+		+	+	+	+	+	+
<i>A. convolutus</i> Cognetti, 1953	TW	ct	+	+	+	+	+	+		+	+		+	+	+
<i>A. dentalius</i> Imagina, 1966	T	d	+						+				+		+
<i>A. edwarsi</i> Saint-Joseph, 1887	TC	am	+	+	+	+	+	+	+		+	+	+	+	+
<i>A. inermis</i> Saint-Joseph, 1887	TC	am		+							+		+		+
<i>A. longeferiens</i> Saint-Joseph, 1887	TC	am		+			+						+		+
<i>A. longoprimicirratus</i> López, San Martín & Jiménez, 1997	T	m	+										+		
<i>A. neapolitanus</i> Cognetti, 1953	T	m			+								+		
<i>A. prolifer</i> (O.F. Müller, 1788)	E	aa	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>A. quindecimdentatus</i> Langerhans, 1884	E	d	+	+	+	+				+	+		+	+	+
<i>A. roseus</i> Claparède, 1864	T	am							+				+		+
<i>A. rubropunctatus</i> (Grube, 1860)	TC	am	+	+					+				+	+	+
<i>A. rubrovittatus</i> Claparède, 1864	TC	am							+				+		+
<i>A. sardai</i> Martín & Alós, 1987	T	m	+				+						+		+
<i>Branchiosyllis exilis</i> (Gravier, 1900)	TW	ct	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Brania arminii</i> (Langerhans, 1881)	TW	ct	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>B. pusilla</i> (Dujardin, 1851)	E	c	+	+	+		+	+	+	+	+	+	+	+	+
<i>Dioplosyllis cirrosa</i> Gidholm, 1962	TC	am			+								+		+
<i>Erinaceusyllis belizensis</i> (Russel, 1989)	TW	aa	+			+							+		+
<i>E. cryptica</i> (Ben-Eliahu, 1977)	TW	iam	+	+	+	+	+	+	+		+		+	+	+
<i>E. erinaceus</i> (Claparède, 1863)	E	c		+			+	+				+	+	+	+
<i>E. serratosetosa</i> (Hartmann-Schröder, 1982)	TW	d	+										+		
<i>Eurysyllis tuberculata</i> Ehlers, 1864	E	d	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Eusyllis assimilis</i> Marenzeller, 1875	E	d	+	+	+	+	+			+	+	+	+	+	+
<i>E. blomstrandii</i> Malmgren, 1867	E	d	+	+	+	+	+				+	+	+	+	+
<i>E. kupfferi</i> Langerhans, 1879	TW	am					+								+
<i>E. lamelligera</i> Marion & Bobretzky, 1875	E	aa	+	+	+	+	+		+	+	+	+	+	+	+
<i>Exogone</i> (Exogone) acerata San Martín & Parapar, 1990	T	m	+										+		+
<i>E. (E.) dispar</i> (Webster, 1879)	E	c	+	+	+	+	+		+	+	+	+	+	+	+
<i>E. (E.) fauveti</i> Cognetti, 1961	TC	am									+				+
<i>E. (E.) lopezi</i> San Martín, Ceberio & Aguirre-Zabalaga, 1996	T	am						+							+
<i>E. (E.) naidina</i> Örsted, 1845	E	c	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>E. (E.) rostrata</i> Naville, 1933	T	m	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>E. (E.) sorbei</i> San Martín, Ceberio & Aguirre-Zabalaga, 1996	T	am						+							+

## Appendix 1 (continued)

Mediterranean Syllidae (+ = presence)	BC	BG	Analysed coastlines									Main basins			
			SP	NWI	TU	CY	GR	IS	ES	SI	SA	NA	WM	EM	A
<i>E. (E.) torulosa</i> (Claparède, 1864)	T	m				+							+	+	
<i>E. (E.) verugera</i> (Claparède, 1868)	E	c	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>E. (Parexogone) campoyi</i> San Martín, Ceberio & Aguirre-Zabalaga, 1996	T	am					+								+
<i>E. (P.) caribensis</i> San Martín, 1991	TW	d	+		+									+	+
<i>E. (P.) cognetti</i> Castelli, Badalamenti & Lardicci, 1987	T	m	+	+	+									+	+
<i>E. (P.) convoluta</i> Campoy, 1982	T	am	+												+
<i>E. (P.) gambiae</i> Lanera, Sordino & San Martín, 1994	T	m	+	+	+	+	+	+			+		+	+	+
<i>E. (P.) hebes</i> (Webster & Benedict, 1884)	TC	aa	+					+	+	+			+	+	+
<i>E. (P.) mediterranea</i> San Martín, 1984	TW	aa	+	+	+	+					+	+		+	+
<i>E. (P.) wolfi</i> San Martín, 1991	TW	d	+				+	+						+	+
<i>E. (Syllinae) brevipes</i> (Claparède, 1864)	TC	am		+										+	+
<i>Haplosyllis chamaeleon</i> Laubier, 1960	T	m	+												+
<i>H. spongicola</i> (Grube, 1855)	TW	c	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Inermosyllis balearica</i> (San Martín, 1982)	T	m	+	+										+	+
<i>Irmula spissipes</i> Ehlers, 1913	T	am		+											+
<i>Levidorum pori</i> (Ben-Eliahu, 1977)	W	im	+												+
<i>Miscellania dentata</i> Martín, Alós & Sardá, 1990	T	am	+											+	+
<i>Myrianida fasciata</i> Milne Edwards, 1845	T	am	+	+				+			+	+		+	+
<i>Neopetitia amphophthalma</i> (Siewing, 1956)	W	ct	+												+
<i>Odontosyllis ctenostoma</i> Claparède, 1868	T	am	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>O. dugesiana</i> Claparède, 1864	W	aa	+					+	+	+	+	+		+	+
<i>O. fulgorans</i> (Audouin & Milne Edwards, 1834)	TW	c	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>O. gibba</i> Claparède, 1863	E	iam	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Opisthodonta morena</i> Langerhans, 1879	TW	iam	+	+		+								+	+
<i>O. pterochaeta</i> Southern, 1914	TC	am	+					+						+	+
<i>Opisthosyllis brunnea</i> Langerhans, 1879	TW	ct	+			+			+	+				+	+
<i>Palposyllis prosostoma</i> Hartmann-Schröder, 1977	T	am		+											+
<i>Paraehlersia ferrugina</i> (Langerhans, 1881)	TW	c	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Parapionosyllis brevicirra</i> Day, 1954	E	d	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>P. cabezali</i> Parapar, San Martín & Moreira, 2000	T	am													+
<i>P. elegans</i> (Pierantoni, 1903)	T	am	+	+	+	+	+	+			+	+		+	+
<i>P. gestans</i> Pierantoni, 1903	T	am		+				+						+	+
<i>P. labronica</i> Cognetti, 1965	T	am	+	+		+								+	+
<i>P. minuta</i> (Pierantoni, 1903)	TC	am	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>P. papillosa</i> (Pierantoni, 1903)	T	m	+	+											+
<i>Paraprocerastea crocantinae</i> San Martín & Alós, 1989	T	m	+		+									+	+
<i>Paratyposyllis peresi</i> Laubier, 1966	T	m													+
<i>Pionosyllis anophthalma</i> Capaccioni & San Martín, 1989	T	m	+	+	+	+	+					+	+	+	+
<i>P. dionisi</i> Núñez & San Martín, 1991	E	d	+	+	+	+								+	+
<i>P. divaricata</i> (Keferstein, 1862)	T	am		+	+									+	+
<i>P. lamelligera</i> Saint-Joseph, 1887	T	aa	+	+	+	+	+	+			+	+		+	+
<i>P. longocirrata</i> Saint-Joseph, 1887	E	am	+	+	+	+					+	+		+	+
<i>P. pulligera</i> (Krohn, 1852)	E	d	+	+	+	+			+	+	+	+		+	+
<i>P. serratisetosa</i> López, San Martín & Jiménez, 1997	T	am	+			+								+	+
<i>P. weismanni</i> Langerhans, 1879	E	d	+	+	+	+	+	+	+	+				+	+
<i>Plakosyllis brevipes</i> Hartmann-Schröder, 1956	TW	aa	+	+	+	+	+	+						+	+
<i>Procerastea aurantiaca</i> Claparède, 1868	T	am	+	+	+	+	+	+			+	+	+	+	+
<i>P. picta</i> Ehlers, 1864	E	d	+	+	+	+	+	+						+	+
<i>Procerastea halleziana</i> Malaquin, 1893	TC	aa	+											+	+
<i>P. nematodes</i> Langerhans, 1884	TC	am	+											+	+
<i>Prosphaerosyllis adelae</i> (San Martín, 1984)	T	m	+	+											+
<i>P. brandhorsti</i> (Hartmann-Schröder, 1965)	T	m													+
<i>P. brevicirra</i> (Hartmann-Schröder, 1960)	TW	iam						+						+	+
<i>P. campoyi</i> (San Martín, Acero, Contonente & Gómez, 1982)	T	am	+	+	+	+	+							+	+
<i>P. longipapillata</i> (Hartmann-Schröder, 1979)	W	d						+							+
<i>P. tetralix</i> (Eliason, 1920)	TC	am	+	+				+	+		+	+	+	+	+
<i>P. xarifae</i> (Hartmann-Schröder, 1960)	TW	c	+	+	+	+	+				+	+		+	+
<i>Salvatoria alvaradoi</i> (San Martín, 1984)	T	m	+	+							+			+	+
<i>S. balani</i> (Hartmann-Schröder, 1960)	W	im	+												+
<i>S. celiae</i> (Parapar & San Martín, 1992)	T	m	+												+
<i>S. clavata</i> (Claparède, 1863)	E	c	+	+	+	+	+	+	+	+	+	+		+	+

## Appendix 1 (continued)

Mediterranean Syllidae (+ = presence)	BC	BG	Analysed coastlines								Main basins				
			SP	NWI	TU	CY	GR	IS	ES	SI	SA	NA	WM	EM	A
<i>S. dolichopoda</i> (Marenzeller, 1874)	T	m				+						+	+	+	+
<i>S. euritmica</i> (Sardá, 1984)	E	d	+	+	+	+							+	+	+
<i>S. limbata</i> (Claparède, 1868)	TC	am	+	+		+	+	+	+	+	+	+	+	+	+
<i>S. neapolitana</i> (Goodrich, 1930)	TW	d	+	+									+	+	+
<i>S. swedmarki</i> (Gidholm, 1962)	TC	am	+										+		
<i>S. tenuicirrata</i> (Claparède, 1864)	T	am		+			+					+	+	+	+
<i>S. vieitezi</i> (San Martín, 1984)	TW	aa	+	+	+	+				+	+		+	+	+
<i>S. yraidae</i> (San Martín, 1984)	T	am	+	+	+					+	+		+	+	+
<i>Sphaerosyllis austriaca</i> Banse, 1959	T	am	+	+	+	+				+			+	+	+
<i>S. bulbosa</i> Southern, 1914	T	am	+	+		+	+	+	+	+	+		+	+	+
<i>S. capensis</i> Day, 1953	T	ct					+						+		
<i>S. claparedii</i> Ehlers, 1864	TC	am		+			+	+	+			+	+	+	+
<i>S. giandoi</i> Somaschini & San Martín, 1994	T	m			+								+		
<i>S. glandulata</i> Perkins, 1981	TW	aa	+	+	+							+	+	+	+
<i>S. gravinae</i> Somaschini & San Martín, 1994	T	m	+	+								+	+	+	+
<i>S. hystric</i> Claparède, 1863	E	c	+	+	+	+	+	+	+	+	+		+	+	+
<i>S. magnidentata</i> Perkins, 1981	W	aa	+										+		
<i>S. ovigera</i> Langerhans, 1879	E	am		+			+	+	+			+	+	+	+
<i>S. pirifera</i> Claparède, 1868	T	am	+	+	+	+	+	+	+	+	+		+	+	+
<i>S. piriferopsis</i> Perkins, 1981	TW	aa		+									+		
<i>S. taylori</i> Perkins, 1981	TW	aa	+	+	+	+	+	+	+	+	+		+	+	+
<i>S. thomasi</i> San Martín, 1984	T	m	+	+	+			+			+	+		+	+
<i>S. boeroi</i> Musco, Çınar, Giangrande (2005)	T	m					+				+				
<i>Streptosyllis arenae</i> Webster & Benedict, 1884	TC	am		+									+		
<i>S. bidentata</i> Southern, 1914	TC	am	+										+	+	
<i>S. templadoi</i> San Martín, 1984	T	am	+										+	+	
<i>S. websteri</i> Southern, 1914	TC	am	+	+	+			+				+		+	
<i>Syllides articulosus</i> Elmers, 1897	C	d	+										+		
<i>S. bansei</i> Perkins, 1981	TW	aa	+		+		+				+		+	+	+
<i>S. convolutus</i> Webster & Benedict, 1884	T	aa	+	+									+	+	
<i>S. edentatus</i> Westheide, 1974	E	d	+	+	+								+	+	
<i>S. fulvus</i> (Marion & Bobretzky, 1875)	E	iam	+	+	+	+	+	+		+	+	+	+	+	+
<i>S. japonicus</i> Imajima, 1966	E	d	+	+									+		
<i>S. longocirratus</i> (Örsted, 1845)	TC	am		+			+	+	+			+	+	+	+
<i>Syllis alosae</i> San Martín, 1992	W	aa										+			
<i>S. alternata</i> Moore, 1908	E	c	+	+	+	+	+						+	+	
<i>S. amica</i> Quatrefages, 1866	TW	c	+	+	+	+	+	+	+				+	+	+
<i>S. armillaris</i> (O.F. Müller, 1771)	E	c	+	+	+	+	+	+	+				+	+	+
<i>S. beneliahuae</i> (Campoy & Alquézar, 1982)	TW	d	+	+	+	+	+	+				+	+	+	+
<i>S. caeca</i> (Kazmann, 1973)	T	m	+				+	+					+	+	+
<i>S. columbrensis</i> (Campoy, 1982)	T	am	+	+	+	+	+						+	+	
<i>S. compacta</i> Gravier, 1900	T	d	+	+	+								+	+	+
<i>S. corallicola</i> Verrill, 1900	W	aa	+			+							+	+	+
<i>S. cruzi</i> Núñez & San Martín, 1991	TW	am	+				+						+	+	+
<i>S. ferrani</i> Alós & Martín, 1987	T	m	+	+		+	+	+					+	+	+
<i>S. garciai</i> (Campoy, 1982)	TW	aa	+	+	+	+	+	+	+				+	+	+
<i>S. gerlachi</i> (Hartmann-Schröder, 1960)	TW	c	+	+	+	+	+	+	+				+	+	+
<i>S. gerundensis</i> (Alós & Campoy, 1981)	T	m	+	+			+						+	+	+
<i>S. gracilis</i> Grube, 1840	TW	c	+	+	+	+	+	+	+				+	+	+
<i>S. heterochaeta</i> Moore, 1909	T	d													
<i>S. hyalina</i> Grube, 1863	TW	c	+	+	+	+	+	+	+				+	+	+
<i>S. hyllebergi</i> (Licher, 1999)	W	ct					+								
<i>S. jorgei</i> San Martín & López, 2000	T	am	+	+	+	+	+	+					+	+	+
<i>S. kabilika</i> Ben-Eliahu, 1977	W	im	+												
<i>S. krohnii</i> Ehlers, 1864	E	d	+	+	+	+	+	+	+				+	+	+
<i>S. nigricirris</i> Grube, 1863	T	am		+			+						+	+	+
<i>S. parapari</i> San Martín & López, 2000	TW	d	+				+						+		
<i>S. pectinans</i> Haswell, 1920	E	d	+												
<i>S. pontxioi</i> San Martín & López, 2000	T	am	+		+	+							+	+	+
<i>S. proliferata</i> Krohn, 1852	TW	c	+	+	+	+	+	+	+				+	+	+
<i>S. pulvinata</i> (Langerhans, 1881)	TW	iam	+	+		+	+	+	+				+	+	+
<i>S. rosea</i> Langerhans, 1879	T	d	+	+	+	+	+	+	+				+	+	+
<i>S. schulzi</i> (Hartmann-Schröder, 1960)	TW	c	+				+						+		
<i>S. torquata</i> Marion & Bobretzky, 1875	T	am	+	+	+	+	+	+	+				+		
<i>S. tyrrhenica</i> (Licher & Kuper, 1998)	T	m	+	+									+		

## Appendix 1 (continued)

Mediterranean Syllidae (+ = presence)	BC	BG	Analysed coastlines									Main basins			
			SP	NWI	TU	CY	GR	IS	ES	SI	SA	NA	WM	EM	A
<i>S. variegata</i> Grube, 1860	TW	c	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>S. vittata</i> Grube, 1840	E	iam	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>S. vivipara</i> Krohn, 1869	TW	aa	+	+						+	+	+	+	+	+
<i>S. westheidei</i> San Martín, 1984	TW	d	+	+	+				+	+	+	+	+	+	+
<i>Trypanosyllis aeolis</i> Langerhans, 1879	TW	c	+		+	+	+			+	+	+	+	+	+
<i>T. coeliaca</i> Claparède, 1868	TW	c	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>T. gigantea</i> (McIntosh, 1885)	C	d												+	+
<i>T. zebra</i> (Grube, 1860)	TW	c	+	+	+	+	+	+	+	+	+	+	+	+	+
<i>Virchowia clavata</i> (Langerhans, 1879)	T	am	+	+									+	+	+
<i>Xenosyllis scabra</i> (Ehlers, 1864)	T	aa	+	+	+	+					+	+	+	+	+
<b>Uncertain findings</b>															
(*Licher 1999, * Çınar pers. comm., # San Martín pers. comm.)															
<i>Exogone oerstedii</i> Kölliker in Koch, 1846 #															
<i>E. edwardsii</i> Kölliker in Koch, 1846 #															
<i>E. cirrata</i> Kölliker in Koch, 1846 #															
<i>Ioida pontica</i> Czerniawsky, 1881 °															
<i>Syllis cornuta</i> Rathke, 1843 °															
<i>S. magna</i> (Westheide, 1974) °															
<i>S. monilaris</i> Savigny, 1812 °															
<i>S. nuchalis</i> (Hartmann-Schröder, 1960) °															
<i>Syllis sexoculata</i> Ehlers, 1864 °															
<i>Pionosyllis malmgreni</i> McIntosh, 1869 *															

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