

## Supplement

Table S1. Process of selection of datasets from GBIF.

<b>Step</b>	<b>Omitted record</b>	<b>Remaining record</b>
Initial number of records	-	1570934
Removing records without species names	442376	1128558
Removing records without latitudes	164397	964161
Removing records without longitudes	0	964161
Removing records without coordinate uncertainty	353522	610639
Removing records with coordinate uncertainty more than 10 km	3741	606898
Removing duplicates	246852	360046
	Remaining records	360046

Table S2. Process of selection of datasets from OBIS.

<b>Step</b>	<b>Omitted record</b>	<b>Remaining record</b>
Initial number of records	-	2212260
Removing records without species names	565661	1646599
Removing records without latitudes	0	1646599
Removing records without longitudes	0	1646599
Removing records without coordinate uncertainty	1235084	411515
Removing records with coordinate uncertainty more than 10 km	1356	410159
Removing duplicates	176512	233647
	Remaining records	233647

Table S3. The process of merging and selection of datasets from GBIF and OBIS and the addition of Indonesian polychaete records (Pamungkas &amp; Glasby, 2019).

<b>Step</b>	<b>Added record</b>	<b>Omitted record</b>	<b>Remaining record</b>
Merging of GBIF and OBIS datasets	593693	-	593693
Removing duplicates	-	9610	584083
Removing records with coordinate uncertainty containing characters 'NA'	-	51339	532744
Removing inland records	-	602	532142
Adding Indonesian polychaete records	1687	-	533829
Removing non-polychaete records	-	327	553502
		Selected records	553502
		Number of species	3415
		Number of families	77

Table S4. Steps in doing the rarefaction analyses in R, along with the scripts to do the functions.

Step	Script
Installing the necessary package	<code>install.packages ("vegan")</code>
Loading the necessary package	<code>library (vegan)</code>
Checking the minimum value allowed *	<code>minimumvalue &lt;- min (rowSums (E(S50)_Analysis_in_R))</code>
Performing rarefaction analysis **	<code>E(S50) &lt;- rarefy (E(S50)_Analysis_in_R, 50 , se = TRUE)</code>
Creating a csv file	<code>write.csv (E(S50), "E(S50) Result from R.csv")</code>

\* To calculate E(S50) and E(S30), the minimum values allowed should be 50 and 30, respectively.  
\*\* To calculate E(S30), the number '50' must be changed with '30'.

Table S5. Steps in doing the GAMs in R, along with the scripts to do the functions.

Step	Script
Installing the necessary package	<code>install.packages("mgcv")</code>
Loading the necessary package	<code>library(mgcv)</code>
GAM analysis for the alpha species richness <sup>1</sup>	<code>Alpha.GAM &lt;- gam(Alpha ~ s(Latitude), data = GAM, method = "REML")</code>
Summary of the analysis	<code>summary(Alpha.GAM)</code>
Plotting the model line	<code>plot(Alpha.GAM, se = TRUE, residuals = TRUE, shade = TRUE, shift = coef(Alpha.GAM)[1], pch = 1, xlim = rev(c(-80,85)), cex.axis = 1.5, cex.lab = 1.5, ylab = "Average number of species")</code>
GAM analysis for the gamma species richness <sup>2</sup>	<code>Gamma.GAM &lt;- gam(Gamma ~ s(Latitude), data = GAM, method = "REML")</code>
Summary of the analysis	<code>summary(Gamma.GAM)</code>
Plotting the model line	<code>plot(Gamma.GAM, se = TRUE, residuals = TRUE, shade = TRUE, shift = coef(Gamma.GAM)[1], pch = 1, xlim = rev(c(-80,85)), cex.axis = 1.5, cex.lab = 1.5, ylab = "Number of species")</code>
GAM analysis for the E(S50) <sup>3</sup>	<code>E(S50).GAM &lt;- gam(E(S50) ~ s(Latitude), data = GAM, method = "REML")</code>
Summary of the analysis	<code>summary(E(S50).GAM)</code>
Plotting the model line	<code>plot(E(S50).GAM, se = TRUE, residuals = TRUE, shade = TRUE, shift = coef(E(S50).GAM)[1], pch = 1, xlim = rev(c(-80,80)), cex.axis = 1.5, cex.lab = 1.5, ylab = "E(S50)")</code>

<sup>1, 2, 3</sup> These are to find the best non-linear model fitting the scatter plots of alpha and gamma species richness as well as E(S50) based on the polychaete data file named 'GAM', which consists of four columns: 'Latitude', 'Alpha', 'Gamma' and 'E(S50)'.

Table S6. List of polychaete families along with their occurrence record and species numbers.

<b>Family</b>	<b>Authority</b>	<b>Record number</b>	<b>Species number</b>
Acoetidae	Kinberg, 1856	255	16
Acrocirridae	Banse, 1969	1040	10
Alciopidae	Ehlers, 1864	1766	20
Alvinellidae	Desbruyères & Laubier, 1986	165	6
Ampharetidae	Malmgren, 1866	21049	79
Amphinomidae	Lamarck, 1818	2941	40
Aphroditidae	Malmgren, 1867	4094	49
Apistobranchidae	Mesnil & Caullery, 1898	1574	2
Arenicolidae	Johnston, 1835	7485	14
Bonelliidae	Lacaze-Duthiers, 1858	1203	56
Capitellidae	Grube, 1862	23642	46
Chaetopteridae	Audouin & Milne Edwards, 1833	3198	19
Chrysopetalidae	Ehlers, 1864	162	27
Cirratulidae	Ryckholt, 1851	23979	52
Cossuridae	Day, 1963	460	10
Dinophilidae	Macalister, 1876	18	4
Dorvilleidae	Chamberlin, 1919	5927	50
Echiuridae	Quatrefages, 1847	219	5
Eulepethidae	Chamberlin, 1919	3	1
Eunicidae	Berthold, 1827	3851	83
Euprosinidae	Williams, 1852	179	22
Fabriciidae	Rioja, 1923	1402	11
Fauveliopsidae	Hartman, 1971	35	4
Flabelligeridae	de Saint-Joseph, 1894	7431	45
Glyceridae	Grube, 1850	15268	39
Goniadidae	Kinberg, 1866	9364	40
Hesionidae	Grube, 1850	9658	55
Histriobdellidae	Claus & Moquin-Tandon, 1884	3	2
Iospilidae	Bergström, 1914	75	1
Iphionidae	Kinberg, 1856	32	4
Lacydoniidae	Bergström, 1914	171	3
Longosomatidae	Hartman, 1944	23	2
Lopadorrhynchidae	Claparède, 1870	930	10
Lumbrineridae	Schmarda, 1861	13447	74
Magelonidae	Cunningham & Ramage, 1888	7795	18
Maldanidae	Malmgren, 1867	10217	76
Nephtyidae	Grube, 1850	23335	64
Nereididae	Blainville, 1818	12834	190
Nerillidae	Levinsen, 1883	25	12
Oeononidae	Kinberg, 1865	909	16
Onuphidae	Kinberg, 1865	4491	90
Opheliidae	Malmgren, 1867	6562	58
Orbiniidae	Hartman, 1942	10526	49
Oweniidae	Rioja, 1917	14198	20

Paralacydoniidae	Pettibone, 1963	74	2
Paraonidae	Cerruti, 1909	13649	48
Parergodrilidae	Reisinger, 1925	1	1
Pectinariidae	Quatrefages, 1866	9007	22
Pholoidae	Kinberg, 1858	10897	5
Phyllodocidae	Örsted, 1843	27360	120
Pilargidae	Saint-Joseph, 1899	891	17
Poecilochaetidae	Hannerz, 1956	2518	9
Polygordiidae	Czerniavsky, 1881	237	4
Polynoidae	Kinberg, 1856	13289	238
Protodrilidae	Hatschek, 1888	20	13
Protodriloididae	Purschke & Jouin, 1988	186	2
Psammodrilidae	Swedmark, 1952	151	2
Sabellariidae	Johnston, 1865	6039	40
Sabellidae	Latreille, 1825	22007	134
Saccocirridae	Bobretzky, 1872	51	5
Scalibregmatidae	Malmgren, 1867	9661	17
Serpulidae	Rafinesque, 1815	28819	228
Siboglinidae	Caullery, 1914	265	32
Sigalionidae	Kinberg, 1856	6254	52
Sphaerodoridae	Malmgren, 1867	2946	23
Spintheridae	Augener, 1913	44	4
Spionidae	Grube, 1850	62820	194
Sternaspidae	Carus, 1863	221	9
Syllidae	Grube, 1850	24811	366
Terebellidae	Johnston, 1846	28354	268
Thalassematidae	Forbes & Goodsir, 1841	28	11
Tomopteridae	Grube, 1850	911	14
Travisiidae	Hartmann-Schröder, 1971	700	8
Trichobranchidae	Malmgren, 1866	8845	21
Trochochaetidae	Pettibone, 1963	56	2
Typhloscolecidae	Uljanin, 1878	425	6
Urechidae	Monro, 1927	24	4
		<b>533502</b>	<b>3415</b>

Table S7. Taxa where latitudinal gradients in species richness peaked more in the northern or southern hemispheres, or equally in both (symmetrical). Asterisks indicate studies that took sampling bias into account (\*) and were northern biased (\*\*), i.e. most or the entire data used in the studies were from the northern hemisphere.

<b>Marine taxon</b>	<b>Peak of species richness</b>	<b>Reference</b>
Amphipods	Southern hemisphere	Arfianti & Costello (2020)
Benthic algae	Northern hemisphere	Kerswell (2006)
Bivalves	Northern hemisphere	Crame (2000)
Brachiopods	Northern hemisphere	Shen & Shi (2004)
Bryozoans	Northern hemisphere**	Clarke & Lidgard (2000)
Fish*	Southern hemisphere	Chaudhary (2019)
Marine species	Northern hemisphere	Chaudhary et al. (2016, 2017)
Planktonic organisms	Symmetrical	Brayard et al. (2005)
Polychaetes	Southern hemisphere	This study
Prosobranch gastropods	Northern hemisphere**	Roy et al. (1998)
Razor clams	Northern hemisphere	Saeedi et al. (2017)
Sea anemones	Northern hemisphere	Fautin et al. (2013)
Shark & rays	Southern hemisphere	Chaudhary (2019)
Stony corals	Southern hemisphere	Chaudhary (2019)
Zooplankton	Symmetrical	Rutherford et al. (1999)

Table S8. List of over 500 polychaete species that can be found in both hemispheres. Species listed below with an asterisk are confirmed in Hutchings & Kupriyanova (2018) as unlikely to occur in both hemispheres. For the others, an amphi-hemisphere natural distribution hypothesis is accepted pending species revisions on a global scale using a combination of morphological and molecular data. A few species indicated with a double asterisk occur in both hemispheres as a result of human translocation (Hutchings & Kupriyanova 2018).

Family	Species	Author(s)
Acoetidae	<i>Eupanthalis kinbergi</i>	McIntosh, 1876
Acoetidae	<i>Panthalis novaezealandiae</i>	Knox, 1960
Acoetidae	<i>Panthalis oerstedii</i>	Kinberg, 1856
Alciopidae	<i>Alciopa reynaudii</i>	Audouin & Milne Edwards, 1833
Alciopidae	<i>Alciopina parasitica</i>	Claparède & Panceri, 1867
Alciopidae	<i>Krohnia lepidota</i>	(Krohn, 1845)
Alciopidae	<i>Naiades cantrainii</i>	Delle Chiaje, 1830
Alciopidae	<i>Rhynchonereella angelini</i>	(Kinberg, 1866)
Alciopidae	<i>Rhynchonereella fulgens</i>	Greeff, 1885
Alciopidae	<i>Rhynchonereella gracilis</i>	Costa, 1864
Alciopidae	<i>Rhynchonereella petersii</i>	(Langerhans, 1880)
Alciopidae	<i>Torrea candida</i>	(Delle Chiaje, 1841)
Alciopidae	<i>Vanadis antarctica</i>	(McIntosh, 1885)
Alciopidae	<i>Vanadis crystallina</i>	Greeff, 1876
Alciopidae	<i>Vanadis formosa</i>	Claparède, 1870
Alciopidae	<i>Vanadis longissima</i>	(Levinsen, 1885)
Alvinellidae	<i>Alvinella caudata</i>	Desbruyères & Laubier, 1986
Alvinellidae	<i>Alvinella pompejana</i>	Desbruyères & Laubier, 1980
Alvinellidae	<i>Paralvinella grasslei</i>	Desbruyères & Laubier, 1982
Alvinellidae	<i>Paralvinella pandorae</i>	Desbruyères & Laubier, 1986
Ampharetidae	<i>Amage auricula</i>	Malmgren, 1866
Ampharetidae	<i>Amphicteis gunneri</i>	(M. Sars, 1835)
Ampharetidae	<i>Amphicteis posterobranchiata</i>	Fauvel, 1932
Ampharetidae	<i>Amphisamytha galapagensis</i>	Zottoli, 1983
Ampharetidae	<i>Isolda pulchella</i>	Müller in Grube, 1858
Ampharetidae	<i>Melinna cristata</i>	(M. Sars, 1851)
Ampharetidae	<i>Paramphicteis weberi</i>	(Caullery, 1944)
Amphinomidae	<i>Amphinome rostrata</i>	(Pallas, 1766)
Amphinomidae	<i>Archinome rosacea</i>	(Blake, 1985)
Amphinomidae	<i>Chloeia amphora</i>	Horst, 1910
Amphinomidae	<i>Chloeia flava</i>	(Pallas, 1766)
Amphinomidae	<i>Chloeia fusca</i>	McIntosh, 1885
Amphinomidae	<i>Chloeia viridis</i>	Schmarda, 1861
Amphinomidae	<i>Eurythoe complanata</i>	(Pallas, 1766)
Amphinomidae	<i>Eurythoe dubia</i>	Horst, 1912
Amphinomidae	<i>Hermodice carunculata</i>	(Pallas, 1766)
Amphinomidae	<i>Linopherus minuta</i>	(Knox, 1960)
Amphinomidae	<i>Notopygos crinita</i>	Grube, 1855
Amphinomidae	<i>Pherecardia striata</i>	(Kinberg, 1857)
Amphinomidae	<i>Pherecardites parva</i>	Horst, 1912
Aphroditidae	<i>Aphrodita aculeata</i>	Linnaeus, 1758
Aphroditidae	<i>Aphrodita floresiana</i>	(Horst, 1916)
Aphroditidae	<i>Aphrodita talpa</i>	Quatrefages, 1866
Aphroditidae	<i>Laetmonice benthaliana</i>	McIntosh, 1885
Aphroditidae	<i>Laetmonice filicornis</i>	Kinberg, 1856
Aphroditidae	<i>Laetmonice moluccana</i>	(Horst, 1916)
Aphroditidae	<i>Laetmonice producta</i>	Grube, 1877
Arenicolidae	<i>Arenicola cristata</i>	Stimpson, 1856

Bonelliidae	<i>Alomasoma belyaevi</i>	Zenkevitch, 1964
Bonelliidae	<i>Alomasoma chaetiferum</i>	Zenkevitch, 1958
Bonelliidae	<i>Alomasoma nordpacificum</i>	Zenkevitch, 1958
Bonelliidae	<i>Bonellia thomensis</i>	Fischer, 1922
Bonelliidae	<i>Bruunellia bandae</i>	Zenkevitch, 1966
Bonelliidae	<i>Charcotus clavatum</i>	DattaGupta, 1981
Bonelliidae	<i>Choanostomellia bruuni</i>	(Zenkevitch, 1964)
Bonelliidae	<i>Hamingia arctica</i>	Danielssen & Koren, 1880
Bonelliidae	<i>Jakobia birsteini</i>	Zenkevitch, 1958
Bonelliidae	<i>Maxmuelleria faex</i>	(Selenka, 1885)
Bonelliidae	<i>Maxmuelleria lankesteri</i>	(Herdman, 1897)
Bonelliidae	<i>Prometor benthophila</i>	Fisher, 1948
Bonelliidae	<i>Prometor grandis</i>	(Zenkevitch, 1957)
Bonelliidae	<i>Protobonellia mitsukurii</i>	Ikeda, 1908
Bonelliidae	<i>Pseudoikedella achaeta</i>	(Zenkevitch, 1958)
Bonelliidae	<i>Sluiterina flabellorhynchum</i>	Murina, 1976
Bonelliidae	<i>Torbenwolffia galatheae</i>	Zenkevitch, 1966
Bonelliidae	<i>Vitjazema ultraabyssalis</i>	Zenkevitch, 1958
Capitellidae	<i>Capitella capitata</i>	(Fabricius, 1780)
Capitellidae	<i>Capitella jonesi</i>	(Hartman, 1959)
Capitellidae	<i>Dasybranchus caducus</i>	(Grube, 1846)
Capitellidae	<i>Heteromastus filiformis</i>	(Claparède, 1864)
Capitellidae	<i>Notomastus aberans</i>	Day, 1957
Capitellidae	<i>Notomastus latericeus</i>	Sars, 1851
Capitellidae	<i>Notomastus lineatus</i>	Claparède, 1869
Chaetopteridae	<i>Chaetopterus variopedatus</i>	(Renier, 1804)
Chaetopteridae	<i>Phyllochaetopterus claparedii</i>	McIntosh, 1885
Chaetopteridae	<i>Phyllochaetopterus socialis</i>	Claparède, 1869
Chaetopteridae	<i>Spiochaetopterus costarum</i>	(Claparède, 1869)
Chrysopetalidae	<i>Arichlidon reyssi</i>	(Katzmann, Laubier & Ramos, 1974)
Chrysopetalidae	<i>Bhawania cryptocephala</i>	Gravier, 1901
Chrysopetalidae	<i>Bhawania goodei</i>	Webster, 1884
Chrysopetalidae	<i>Chrysopetalum debile</i>	(Grube, 1855)
Cirratulidae	<i>Aphelochaeta filiformis</i>	(Keferstein, 1862)
Cirratulidae	<i>Aphelochaeta marioni</i>	(Saint-Joseph, 1894)
Cirratulidae	<i>Caulleriella alata</i>	(Southern, 1914)
Cirratulidae	<i>Caulleriella bioculata</i>	(Keferstein, 1862)
Cirratulidae	<i>Chaetozone setosa</i>	Malmgren, 1867
Cirratulidae	<i>Cirratulus cirratus</i>	(O. F. Müller, 1776)
Cirratulidae	<i>Cirriformia filigera</i>	(Delle Chiaje, 1828)
Cirratulidae	<i>Cirriformia tentaculata</i>	(Montagu, 1808)
Cirratulidae	<i>Dodecaceria concharum</i>	Ørsted, 1843
Cirratulidae	<i>Kirkegaardia dorsobranchialis</i>	(Kirkegaard, 1959)
Cirratulidae	<i>Protocirrinieris chrysoderma</i>	(Claparède, 1868)
Cossuridae	<i>Cossura longocirrata</i>	Webster & Benedict, 1887
Cossuridae	<i>Cossura pygodactylata</i>	Jones, 1956
Dorvilleidae	<i>Dorvillea rubrovittata</i>	(Grube, 1855)
Dorvilleidae	<i>Ophryotrocha akessoni</i>	Blake, 1985
Dorvilleidae	<i>Protodorvillea biarticulata</i>	Day, 1963
Dorvilleidae	<i>Schistomeringos neglecta</i>	(Fauvel, 1923)
Eunicidae	<i>Eunice aphroditois</i>	(Pallas, 1788)
Eunicidae	<i>Eunice australis</i>	Quatrefages, 1866
Eunicidae	<i>Eunice coccinea</i>	Grube, 1878
Eunicidae	<i>Eunice filamentosa</i>	Grube & Ørsted in Grube, 1856



Eunicidae	<i>Eunice floridana</i>	(Pourtalès, 1867)
Eunicidae	<i>Eunice laticeps</i>	Ehlers, 1868
Eunicidae	<i>Eunice leptocirrus</i>	Grube, 1870
Eunicidae	<i>Eunice pennata</i>	(Müller, 1776)
Eunicidae	<i>Eunice tibiana</i>	(Pourtalès, 1867)
Eunicidae	<i>Eunice vittata</i>	(Delle Chiaje, 1828)
Eunicidae	<i>Leodice antennata</i>	Savigny in Lamarck, 1818
Eunicidae	<i>Lysidice collaris</i>	Grube, 1870
Eunicidae	<i>Lysidice ninetta</i>	Audouin & Milne Edwards, 1833
Eunicidae	<i>Lysidice unicornis</i>	(Grube, 1840)
Eunicidae	<i>Marphysa aenea</i>	(Blanchard in Gay, 1849)
Eunicidae	* <i>Marphysa sanguinea</i>	(Montagu, 1813)
Eunicidae	<i>Palola siciliensis</i>	(Grube, 1840)
Euphrosinidae	<i>Euphrosine longesetosa</i>	Horst, 1903
Euphrosinidae	<i>Euphrosine superba</i>	Marenzeller, 1879
Euphrosinidae	<i>Euphrosine laureata</i>	Savigny in Lamarck, 1818
Fabriciidae	<i>Fabricia stellaris</i>	(Müller, 1774)
Fabriciidae	<i>Fabriciola baltica</i>	Friedrich, 1939
Fabriciidae	<i>Fabriciola berkeleyi</i>	Banse, 1956
Fabriciidae	<i>Manayunkia aestuarina</i>	(Bourne, 1883)
Fabriciidae	<i>Pseudofabriciola filamentosa</i>	(Day, 1963)
Fauveliopsidae	<i>Fauveliopsis adriatica</i>	Katzmann & Laubier, 1974
Fauveliopsidae	<i>Laubieropsis brevis</i>	(Hartman, 1967)
Flabelligeridae	<i>Bradabyssa villosa</i>	(Rathke, 1843)
Flabelligeridae	<i>Flabelligera affinis</i>	M. Sars, 1829
Glyceridae	<i>Glycera alba</i>	(O. F. Müller, 1776)
Glyceridae	<i>Glycera americana</i>	Leidy, 1855
Glyceridae	<i>Glycera brevicirris</i>	Grube, 1870
Glyceridae	<i>Glycera capitata</i>	Örsted, 1843
Glyceridae	<i>Glycera lancadivae</i>	Schmarda, 1861
Glyceridae	<i>Glycera fallax</i>	Quatrefages, 1850
Glyceridae	<i>Glycera lapidum</i>	Quatrefages, 1866
Glyceridae	<i>Glycera oxycephala</i>	Ehlers, 1887
Glyceridae	<i>Glycera papillosa</i>	Grube, 1857
Glyceridae	<i>Glycera tessellata</i>	Grube, 1863
Glyceridae	<i>Glycera tridactyla</i>	Schmarda, 1861
Glyceridae	<i>Glycera unicornis</i>	Lamarck, 1818
Glyceridae	<i>Glycerella magellanica</i>	(McIntosh, 1885)
Goniadidae	<i>Glycinde bonhorei</i>	Gravier, 1904
Goniadidae	<i>Glycinde oligodon</i>	Southern, 1921
Goniadidae	<i>Goniada emerita</i>	Audouin & Milne Edwards, 1833
Goniadidae	<i>Goniada maculata</i>	Örsted, 1843
Goniadidae	<i>Goniada multidentata</i>	Arwidsson, 1899
Goniadidae	<i>Goniada pallida</i>	Arwidsson, 1898
Goniadidae	<i>Goniada paucidens</i>	Grube, 1878
Goniadidae	<i>Progoniada regularis</i>	Hartman, 1965
Hesionidae	<i>Amphiduros fuscescens</i>	(Marenzeller, 1875)
Hesionidae	<i>Hesiolyra bergi</i>	Blake, 1985
Hesionidae	<i>Hesione intertexta</i>	Grube, 1878
Hesionidae	<i>Hesione splendida</i>	Lamarck, 1818
Hesionidae	<i>Hesiospina vestimentifera</i>	Blake, 1985
Hesionidae	<i>Psamathe fusca</i>	Johnston, 1836
Hesionidae	<i>Leocrates chinensis</i>	Kinberg, 1866
Hesionidae	<i>Oxydromus angustifrons</i>	(Grube, 1878)



Hesionidae	<i>Podarkeopsis arenicolus</i>	(La Greca, 1946)
Hesionidae	<i>Podarkeopsis capensis</i>	(Day, 1963)
Hesionidae	<i>Psamathe fusca</i>	Johnston, 1836
Iphionidae	<i>Iphione muricata</i>	(Lamarck, 1818)
Iphionidae	<i>Iphione ovata</i>	Kinberg, 1855
Iphionidae	<i>Thermiphione risensis</i>	(Pettibone, 1986)
Lacydoniidae	<i>Lacydonia miranda</i>	Marion, 1874
Lopadorrhynchidae	<i>Lopadorrhynchus brevis</i>	Grube, 1855
Lopadorrhynchidae	<i>Lopadorrhynchus krohnii</i>	(Claparède, 1870)
Lopadorrhynchidae	<i>Lopadorrhynchus uncinatus</i>	Fauvel, 1915
Lopadorrhynchidae	<i>Maupasias coeca</i>	Viguiier, 1886
Lopadorrhynchidae	<i>Pelagobia longicirrata</i>	Greeff, 1879
Lumbrineridae	<i>Abyssoninoe scopa</i>	(Fauchald, 1974)
Lumbrineridae	<i>Augeneria tentaculata</i>	Monro, 1930
Lumbrineridae	<i>Eranno bifrons</i>	Kinberg, 1865
Lumbrineridae	<i>Hilbigneris gracilis</i>	(Ehlers, 1868)
Lumbrineridae	<i>Augeneria albidentata</i>	(Ehlers, 1908)
Lumbrineridae	<i>Lumbrineris cingulata</i>	Ehlers, 1897
Lumbrineridae	<i>Lumbrineris coccinea</i>	(Renier, 1804)
Lumbrineridae	<i>Lumbrineris inflata</i>	Moore, 1911
Lumbrineridae	<i>Lumbrineris latreilli</i>	Audouin & Milne Edwards, 1833
Lumbrineridae	<i>Lumbrineris tetraura</i>	(Schmarda, 1861)
Lumbrineridae	<i>Paraninoe brevipes</i>	(McIntosh, 1903)
Lumbrineridae	<i>Paraninoe fusca</i>	(Moore, 1911)
Lumbrineridae	<i>Paraninoe minuta</i>	(Théel, 1879)
Lumbrineridae	<i>Scoletoma brevicirra</i>	(Schmarda, 1861)
Lumbrineridae	<i>Scoletoma fragilis</i>	(O. F. Müller, 1776)
Lumbrineridae	<i>Scoletoma impatiens</i>	(Claparède, 1868)
Magelonidae	<i>Magelona capensis</i>	Day, 1961
Magelonidae	<i>Magelona papillicornis</i>	F. Müller, 1858
Magelonidae	<i>Magelona pitelkai</i>	Hartman, 1944
Magelonidae	<i>Magelona rosea</i>	Moore, 1907
Maldanidae	<i>Euclymene palermitana</i>	(Grube, 1840)
Maldanidae	<i>Maldane sarsi</i>	Malmgren, 1865
Maldanidae	<i>Maldanella harai</i>	(Izuka, 1902)
Maldanidae	<i>Nicomache arwidssoni</i>	Blake, 1985
Maldanidae	<i>Notoproctus oculatus</i>	Arwidsson, 1906
Maldanidae	<i>Petaloproctus terricolus</i>	Quatrefages, 1866
Maldanidae	<i>Praxillella affinis</i>	(M. Sars in G. O. Sars, 1872)
Maldanidae	<i>Praxillella gracilis</i>	(M. Sars, 1861)
Maldanidae	<i>Rhodine loveni</i>	Malmgren, 1865
Nephtyidae	<i>Aglaophamus dibranchis</i>	(Grube, 1877)
Nephtyidae	<i>Aglaophamus elamellatus</i>	(Eliason, 1951)
Nephtyidae	<i>Inermonephtys inermis</i>	(Ehlers, 1887)
Nephtyidae	<i>Micronephtys longicornis</i>	(Perejaslvtseva, 1891)
Nephtyidae	<i>Micronephtys sphaerocirrata</i>	(Wesenberg-Lund, 1949)
Nephtyidae	<i>Nephtys paradoxa</i>	Malm, 1874
Nereididae	<i>Alitta succinea</i>	(Leuckart, 1847)
Nereididae	<i>Ceratonereis tentaculata</i>	Kinberg, 1865
Nereididae	<i>Namalycastis abiuma</i>	(Grube, 1872)
Nereididae	<i>Namalycastis rhodochorde</i>	Glasby, Miura, Nishi & Junardi, 2007
Nereididae	<i>Namanereis quadraticeps</i>	(Blanchard in Gay, 1849)
Nereididae	<i>Neanthes acuminata</i>	(Ehlers, 1868)
Nereididae	<i>Neanthes kerguelensis</i>	(McIntosh, 1885)

Nereididae	<i>Neanthes pachychaeta</i>	(Fauvel, 1918)
Nereididae	<i>Nereis jacksoni</i>	Kinberg, 1865
Nereididae	<i>Nereis onychophora</i>	Horst, 1918
Nereididae	<i>Nereis pelagica</i>	Linnaeus, 1758
Nereididae	<i>Nereis sandersi</i>	Blake, 1985
Nereididae	<i>Nicon moniloceras</i>	(Hartman, 1940)
Nereididae	<i>Perinereis cultrifera</i>	(Grube, 1840)
Nereididae	<i>Perinereis helleri</i>	(Grube, 1878)
Nereididae	<i>Perinereis singaporiensis</i>	(Grube, 1878)
Nereididae	<i>Perinereis vallata</i>	(Grube, 1857)
Nereididae	<i>Platynereis bicanaliculata</i>	(Baird, 1863)
Nereididae	<i>Platynereis dumerilii</i>	(Audouin & Milne Edwards, 1833)
Nereididae	<i>Pseudonereis anomala</i>	Gravier, 1899
Nereididae	<i>Websterinereis glauca</i>	(Claparède, 1870)
Oeononidae	<i>Arabella iricolor</i>	(Montagu, 1804)
Oeononidae	<i>Arabella mutans</i>	(Chamberlin, 1919)
Oeononidae	<i>Drilonereis filum</i>	(Claparède, 1868)
Oeononidae	<i>Drilonereis logani</i>	Crossland, 1924
Oeononidae	<i>Halla okudai</i>	Imajima, 1967
Oeononidae	<i>Oenone fulgida</i>	(Savigny in Lamarck, 1818)
Onuphidae	<i>Diopatra cuprea</i>	(Bosc, 1802)
Onuphidae	<i>Diopatra gallardoi</i>	Paxton, 2016
Onuphidae	<i>Diopatra neapolitana</i>	Delle Chiaje, 1841
Onuphidae	<i>Hyalinoecia robusta</i>	Southward, 1977
Onuphidae	<i>Hyalinoecia tubicola</i>	(O. F. Müller, 1776)
Onuphidae	<i>Kinbergonuphis investigatoris</i>	(Fauvel, 1932)
Onuphidae	<i>Nothria conchylega</i>	(Sars, 1835)
Onuphidae	<i>Nothria otsuchiensis</i>	Imajima, 1986
Onuphidae	<i>Onuphis eremita</i>	Audouin & Milne Edwards, 1833
Onuphidae	<i>Onuphis holobranchiata</i>	Marenzeller, 1879
Onuphidae	<i>Onuphis rullieriana</i>	(Amoureux, 1977)
Onuphidae	<i>Paradiopatra antarctica</i>	(Monro, 1930)
Onuphidae	<i>Paradiopatra quadricuspis</i>	(M. Sars in G. O. Sars, 1872)
Onuphidae	<i>Rhaphobranchium brevibrachiatum</i>	(Ehlers, 1874)
Onuphidae	<i>Rhaphobranchium chuni</i>	Ehlers, 1908
Opheliidae	<i>Polyopthalmus pictus</i>	(Dujardin, 1839)
Orbiniidae	<i>Phylo norvegicus</i>	(M. Sars in G. O. Sars, 1872)
Orbiniidae	<i>Leodamas rubrus</i>	(Webster, 1879)
Orbiniidae	<i>Scoloplos armiger</i>	(Müller, 1776)
Oweniidae	<i>Myriochele eurystoma</i>	Caullery, 1944
Oweniidae	<i>Myriochele heeri</i>	Malmgren, 1867
Oweniidae	<i>*Owenia fusiformis</i>	Delle Chiaje, 1844
Paralacydoniidae	<i>Paralacydonia paradoxa</i>	Fauvel, 1913
Paralacydoniidae	<i>Paralacydonia weberi</i>	Horst, 1923
Paraonidae	<i>Aricidea (Acmira) catherinae</i>	Laubier, 1967
Paraonidae	<i>Aricidea (Acmira) lopezi</i>	Berkeley & Berkeley, 1956
Paraonidae	<i>Aricidea (Acmira) simplex</i>	Day, 1963
Paraonidae	<i>Aricidea (Strelzovia) ramosa</i>	Annenkova, 1934
Paraonidae	<i>Aricidea (Aricidea) albatrossae</i>	Pettibone, 1957
Paraonidae	<i>Aricidea (Strelzovia) suecica</i>	Eliason, 1920
Paraonidae	<i>Aricidea longobranchiata</i>	Day, 1961
Paraonidae	<i>Levinsenia gracilis</i>	(Tauber, 1879)
Paraonidae	<i>Paradoneis lyra</i>	(Southern, 1914)
Pectinariidae	<i>Pectinaria antipoda</i>	Schmarda, 1861

Phyllodocidae	<i>Eulalia bilineata</i>	(Johnston, 1840)
Phyllodocidae	<i>Eulalia viridis</i>	(Linnaeus, 1767)
Phyllodocidae	<i>Eumida sanguinea</i>	(Ørsted, 1843)
Phyllodocidae	<i>Galapagomystides aristata</i>	Blake, 1985
Phyllodocidae	<i>Notophyllum imbricatum</i>	Moore, 1906
Phyllodocidae	<i>Phyllodoce lamelligera</i>	(Gmelin in Linnaeus, 1788)
Phyllodocidae	<i>Phyllodoce longipes</i>	Kinberg, 1866
Phyllodocidae	<i>Phyllodoce madeirensis</i>	Langerhans, 1880
Phyllodocidae	<i>Phyllodoce quadraticeps</i>	Grube, 1878
Phyllodocidae	<i>Phyllodoce sanctijosephi</i>	Gravier, 1900
Phyllodocidae	<i>Pterocirrus macroceros</i>	(Grube, 1860)
Pilargidae	<i>Ancistrosyllis groenlandica</i>	McIntosh, 1878
Pilargidae	<i>Sigambra parva</i>	(Day, 1963)
Pilargidae	<i>Sigambra tentaculata</i>	(Treadwell, 1941)
Pilargidae	<i>Synelmis rigida</i>	(Fauvel, 1919)
Poecilochaetidae	<i>Poecilochaetus serpens</i>	Allen, 1904
Poecilochaetidae	<i>Poecilochaetus trachyderma</i>	Read, 1986
Polynoidae	<i>Bathyliaisona nigra</i>	(Hartman, 1967)
Polynoidae	<i>Bathykermadeca hadalis</i>	(Kirkegaard, 1956)
Polynoidae	<i>Branchinotogluma hessleri</i>	Pettibone, 1985
Polynoidae	<i>Branchinotogluma sandersi</i>	Pettibone, 1985
Polynoidae	<i>Branchipolynoe pettiboneae</i>	Miura & Hashimoto, 1991
Polynoidae	<i>Branchipolynoe seepensis</i>	Pettibone, 1986
Polynoidae	<i>Branchipolynoe symmytilida</i>	Pettibone, 1984
Polynoidae	<i>Drieschella maculata</i>	Augener & Pettibone, 1970
Polynoidae	<i>Drieschia pelagica</i>	Michaelsen, 1892
Polynoidae	<i>Eunoe hubrechtii</i>	(McIntosh, 1900)
Polynoidae	<i>Euphione tenuisetosa</i>	Gravier, 1901
Polynoidae	<i>Gorgoniapolynoe caeciliae</i>	(Fauvel, 1913)
Polynoidae	<i>Harmothoe impar</i>	(Johnston, 1839)
Polynoidae	<i>Lepidasthenia grimaldii</i>	(Marenzeller, 1892)
Polynoidae	<i>Lepidasthenia maculata</i>	Potts, 1910
Polynoidae	<i>Lepidonotopodium atalantae</i>	Desbruyères & Hourdez, 2000
Polynoidae	<i>Lepidonotopodium fimbriatum</i>	Pettibone, 1983
Polynoidae	<i>Lepidonotopodium williamsae</i>	Pettibone, 1984
Polynoidae	<i>Lepidonotus clava</i>	(Montagu, 1808)
Polynoidae	<i>Lepidonotus cristatus</i>	(Grube, 1876)
Polynoidae	<i>Lepidonotus tenuisetosus</i>	(Gravier, 1902)
Polynoidae	<i>Levensteiniella kincaidi</i>	Pettibone, 1985
Polynoidae	<i>Levensteiniella plicata</i>	Hourdez & Desbruyères, 2000
Polynoidae	<i>Paralepidonotus indicus</i>	(Kinberg, 1856)
Polynoidae	<i>Polynoe cornuta</i>	Fischli, 1903
Polynoidae	<i>Subadyte pellucida</i>	(Ehlers, 1864)
Polynoidea	<i>Gastrolepidia clavigera</i>	Schmarda, 1861
Sabellariidae	<i>Idanthysrus macropaleus</i>	(Schmarda, 1861)
Sabellariidae	<i>Idanthysrus pennatus</i>	(Peters, 1854)
Sabellariidae	<i>Lygdamis ehlersi</i>	(Caullery, 1913)
Sabellariidae	<i>Sabellaria alveolata</i>	(Linnaeus, 1767)
Sabellariidae	<i>Tetreres philippinensis</i>	(Treadwell, 1926)
Sabellariidae	<i>Tetreres varians</i>	(Treadwell, 1901)
Sabellidae	<i>Amphiglena mediterranea</i>	(Leydig, 1851)
Sabellidae	<i>Bispira manicata</i>	(Grube, 1878)
Sabellidae	<i>Bispira melanostigma</i>	(Schmarda, 1861)
Sabellidae	<i>Branchiomma bairdi</i>	(McIntosh, 1885)

Sabellidae	<i>Branchiomma cingulatum</i>	(Grube, 1870)
Sabellidae	<i>Branchiomma nigromaculatum</i>	(Baird, 1865)
Sabellidae	<i>Chone duneri</i>	Malmgren, 1867
Sabellidae	<i>Desdemona ornata</i>	Banse, 1957
Sabellidae	<i>Jasmineira elegans</i>	Saint-Joseph, 1894
Sabellidae	<i>Laonome calida</i>	Capa, 2007
Sabellidae	<i>Myxicola infundibulum</i>	(Montagu, 1808)
Sabellidae	<i>Notaulax phaeotaenia</i>	(Schmarda, 1861)
Sabellidae	<i>Parasabella aulaconota</i>	(Marenzeller, 1884)
Sabellidae	<i>Pseudopotamilla reniformis</i>	(Bruguière, 1789)
Sabellidae	<i>Sabella pavonina</i>	Savigny, 1822
Sabellidae	** <i>Sabella spallanzanii</i>	(Gmelin, 1791)
Sabellidae	<i>Sabellastarte magnifica</i>	(Shaw, 1800)
Sabellidae	<i>Sabellastarte spectabilis</i>	(Grube, 1878)
Scalibregmatidae	<i>Scalibregma inflatum</i>	Rathke, 1843
Serpulidae	<i>Ditrupa gracillima</i>	Grube, 1878
Serpulidae	** <i>Ficopomatus enigmaticus</i>	(Fauvel, 1923)
Serpulidae	<i>Ficopomatus uschakovi</i>	(Pillai, 1960)
Serpulidae	<i>Filograna implexa</i>	Berkeley, 1835
Serpulidae	<i>Hydroides albiceps</i>	(Grube, 1870)
Serpulidae	** <i>Hydroides brachyacantha</i>	Rioja, 1941
Serpulidae	<i>Hydroides dirampha</i>	Mörch, 1863
Serpulidae	** <i>Hydroides elegans</i>	(Haswell, 1883)
Serpulidae	** <i>Hydroides ezoensis</i>	Okuda, 1934
Serpulidae	<i>Hydroides multispinosa</i>	Marenzeller, 1885
Serpulidae	* <i>Hydroides norvegica</i>	Gunnerus, 1768
Serpulidae	<i>Hydroides sanctaerucis</i>	Krøyer in Mörch, 1863
Serpulidae	<i>Hydroides tuberculata</i>	Imajima, 1976
Serpulidae	<i>Josephella marenzelleri</i>	Caullery & Mesnil, 1896
Serpulidae	<i>Laminatubus alvini</i>	ten Hove & Zibrowius, 1986
Serpulidae	<i>Neodexiospira pseudocorrugata</i>	(Bush, 1905)
Serpulidae	<i>Neodexiospira steueri</i>	(Sterzinger, 1909)
Serpulidae	<i>Pomatostegus actinoceras</i>	Mörch, 1863
Serpulidae	<i>Pomatostegus stellatus</i>	(Abildgaard, 1789)
Serpulidae	<i>Protula tubularia</i>	(Montagu, 1803)
Serpulidae	<i>Salmacina dysteri</i>	(Huxley, 1855)
Serpulidae	<i>Serpula concharum</i>	Langerhans, 1880
Serpulidae	* <i>Serpula vermicularis</i>	Linnaeus, 1767
Serpulidae	<i>Simplaria pseudomilitaris</i>	(Thiriot-Quievreux, 1965)
Serpulidae	<i>Spirobranchus corniculatus</i>	(Grube, 1862)
Serpulidae	<i>Spirobranchus giganteus</i>	(Pallas, 1766)
Serpulidae	<i>Spirobranchus kraussii</i>	(Baird, 1864)
Serpulidae	<i>Spirobranchus maldivensis</i>	Pixell, 1913
Serpulidae	<i>Spirobranchus polytrema</i>	(Philippi, 1844)
Serpulidae	<i>Spirobranchus tetraceros</i>	(Schmarda, 1861)
Serpulidae	<i>Spirorbis (Spirorbis) spirorbis</i>	(Linnaeus, 1758)
Serpulidae	<i>Vermiliopsis glandigera</i>	Gravier, 1906
Serpulidae	<i>Vermiliopsis infundibulum</i>	(Philippi, 1844)
Serpulidae	<i>Vitreotubus digeronimoi</i>	Zibrowius, 1979
Siboglinidae	<i>Diplobranchia similis</i>	Southward & Brattegard, 1968
Siboglinidae	<i>Oasisia alvinae</i>	Jones, 1985
Siboglinidae	<i>Riftia pachyptila</i>	Jones, 1981
Siboglinidae	<i>Siboglinum angustum</i>	Southward & Brattegard, 1968
Siboglinidae	<i>Siboglinum pholidotum</i>	Southward & Brattegard, 1968

Siboglinidae	<i>Tevnia jerichonana</i>	Jones, 1985
Sigalionidae	<i>Euthalenessa digitata</i>	(McIntosh, 1885)
Sigalionidae	<i>Euthalenessa festiva</i>	(Grube, 1875)
Sigalionidae	<i>Euthalenessa oculata</i>	(Peters, 1854)
Sigalionidae	<i>Fimbriosthenelais longipinnis</i>	(Grube, 1870)
Sigalionidae	<i>Leanira quatrefagesi</i>	Kinberg, 1856
Sigalionidae	<i>Neoleanira tetragona</i>	(Örsted, 1845)
Sigalionidae	<i>Pelogenia zeylanica</i>	(Willey, 1905)
Sigalionidae	<i>Pottsipelogenia malayana</i>	(Horst, 1913)
Sigalionidae	<i>Sigalion lewisii</i>	Berkeley & Berkeley, 1939
		Audouin & Milne Edwards in Cuvier, 1830
Sigalionidae	<i>Sigalion mathildae</i>	
Sigalionidae	<i>Sigalion squamosus</i>	Delle Chiaje, 1830
Sigalionidae	<i>Sthenelais boa</i>	(Johnston, 1833)
Sigalionidae	<i>Sthenelais limicola</i>	(Ehlers, 1864)
Sigalionidae	<i>Sthenelais malayana</i>	Horst, 1917
Sigalionidae	<i>Sthenelanella ehlersi</i>	(Horst, 1916)
Sigalionidae	<i>Willeysthenelais horsti</i>	Pettibone, 1971
Sphaerodoridae	<i>Sphaerodoropsis chardyi</i>	Desbruyères, 1980
Sphaerodoridae	<i>Sphaerodoropsis parva</i>	(Ehlers, 1913)
Spionidae	<i>Aonides oxycephala</i>	(Sars, 1862)
Spionidae	<i>Boccardia proboscidea</i>	Hartman, 1940
Spionidae	<i>Dipolydora armata</i>	(Langerhans, 1880)
Spionidae	<i>Dipolydora flava</i>	(Claparède, 1870)
Spionidae	<i>Dipolydora giardi</i>	(Mesnil, 1893)
Spionidae	<i>Dipolydora socialis</i>	(Schmarda, 1861)
Spionidae	<i>Dispio uncinata</i>	Hartman, 1951
Spionidae	<i>Paraprionospio pinnata</i>	(Ehlers, 1901)
Spionidae	<i>Polydora calcarea</i>	(Templeton, 1836)
Spionidae	<i>Polydora ciliata</i>	(Johnston, 1838)
Spionidae	<i>Polydora cornuta</i>	Bosc, 1802
Spionidae	<i>Polydora hoplura</i>	Claparède, 1868
Spionidae	<i>Prionospio aucklandica</i>	Augener, 1923
Spionidae	<i>Prionospio cirrifera</i>	Wirén, 1883
Spionidae	<i>Prionospio dubia</i>	Day, 1961
Spionidae	<i>Prionospio ehlersi</i>	Fauvel, 1928
Spionidae	<i>Prionospio malmgreni</i>	Claparède, 1869
Spionidae	<i>Prionospio multibranchiata</i>	Berkeley, 1927
Spionidae	<i>Prionospio paucipinnulata</i>	Blake & Kudenov, 1978
Spionidae	<i>Prionospio pygmaeus</i>	Hartman, 1961
Spionidae	<i>Prionospio steenstrupi</i>	Malmgren, 1867
Spionidae	<i>Pseudopolydora antennata</i>	(Claparède, 1869)
Spionidae	<i>Pseudopolydora paucibranchiata</i>	(Okuda, 1937)
Spionidae	<i>Scoletepis carunculata</i>	Blake & Kudenov, 1978
Spionidae	<i>Spio filicornis</i>	(Müller, 1776)
Spionidae	<i>Spiophanes bombyx</i>	(Claparède, 1870)
Spionidae	<i>Spiophanes kroyeri</i>	Grube, 1860
Spionidae	<i>Spiophanes wigleyi</i>	Pettibone, 1962
Sternaspididae	<i>Sternaspis scutata</i>	(Ranzani, 1817)
Syllidae	<i>Autolytus (Polybostrichus) triangulifer</i>	Grube, 1878
Syllidae	<i>Branchiosyllis exilis</i>	(Gravier, 1900)
Syllidae	<i>Brania pusilla</i>	(Dujardin, 1851)
Syllidae	<i>Epigamia alexandri</i>	(Malmgren, 1867)
Syllidae	<i>Eurysyllis tuberculata</i>	Ehlers, 1864
Syllidae	<i>Eusyllis assimilis</i>	Marenzeller, 1875



Syllidae	<i>Eusyllis lamelligera</i>	Marion & Bobretzky, 1875
Syllidae	<i>Exogone (Parexogone) gambiae</i>	Lanera, Sordino & San Martín, 1994
Syllidae	<i>Exogone africana</i>	Hartmann-Schröder, 1974
Syllidae	<i>Exogone dispar</i>	(Webster, 1879)
Syllidae	<i>Exogone naidina</i>	Örsted, 1845
Syllidae	<i>Exogone normalis</i>	Day, 1963
Syllidae	<i>Haplosyllis spongicola</i>	(Grube, 1855)
Syllidae	<i>Myrianida pachycera</i>	(Augener, 1913)
Syllidae	<i>Odontosyllis gibba</i>	Claparède, 1863
Syllidae	<i>Opisthosyllis brunnea</i>	Langerhans, 1879
Syllidae	<i>Paraehlersia ferrugina</i>	(Langerhans, 1881)
Syllidae	<i>Paraehlersia weissmannioides</i>	(Augener, 1913)
Syllidae	<i>Plakosyllis brevipes</i>	Hartmann-Schröder, 1956
Syllidae	<i>Prospiraerosyllis xarifae</i>	(Hartmann-Schröder, 1960)
Syllidae	<i>Salvatoria clavata</i>	(Claparède, 1863)
Syllidae	<i>Salvatoria euritmica</i>	(Sardá, 1984)
Syllidae	<i>Sphaerosyllis georgeharrisoni</i>	San Martín, 2005
Syllidae	<i>Streptodonta pterochaeta</i>	(Southern, 1914)
Syllidae	<i>Syllides japonicus</i>	Imajima, 1966
Syllidae	<i>Syllides longocirratus</i>	(Örsted, 1845)
Syllidae	<i>Syllis alternata</i>	Moore, 1908
Syllidae	<i>Syllis amica</i>	Quatrefages, 1866
Syllidae	<i>Syllis armillaris</i>	(O. F. Müller, 1776)
Syllidae	<i>Syllis cerina</i>	Grube, 1878
Syllidae	<i>Syllis cornuta</i>	Rathke, 1843
Syllidae	<i>Syllis cruzi</i>	Núñez & San Martín, 1991
Syllidae	<i>Syllis garciai</i>	(Campoy, 1982)
Syllidae	<i>Syllis gracilis</i>	Grube, 1840
Syllidae	<i>Syllis hyalina</i>	Grube, 1863
Syllidae	<i>Syllis lutea</i>	(Hartmann-Schröder, 1960)
Syllidae	<i>Syllis parapari</i>	San Martín & López, 2000
Syllidae	<i>Syllis prolifera</i>	Krohn, 1852
Syllidae	<i>Syllis rosea</i>	(Langerhans, 1879)
Syllidae	<i>Syllis variegata</i>	Grube, 1860
Syllidae	<i>Syllis villenai</i>	Aguado, San Martín & ten Hove, 2008
Syllidae	<i>Trypanosyllis (Trypanosyllis) coeliaca</i>	Claparède, 1868
Syllidae	<i>Trypanosyllis aeolis</i>	Langerhans, 1879
Syllidae	<i>Trypanosyllis zebra</i>	(Grube, 1860)
Syllidae	<i>Typosyllis anops</i>	(Ehlers, 1897)
Terebellidae	<i>*Amaeana trilobata</i>	(Sars, 1863)
Terebellidae	<i>Amphitrite rubra</i>	(Risso, 1826)
Terebellidae	<i>Amphitritides gracilis</i>	(Grube, 1860)
Terebellidae	<i>Artacama proboscidea</i>	Malmgren, 1866
Terebellidae	<i>Eupolymnia intoshi</i>	(Caullery, 1944)
Terebellidae	<i>Eupolymnia marenzelleri</i>	(Caullery, 1944)
Terebellidae	<i>Eupolymnia nebulosa</i>	(Montagu, 1819)
Terebellidae	<i>Hauchiella tribullata</i>	(McIntosh, 1869)
Terebellidae	<i>Lanice conchilega</i>	(Pallas, 1766)
Terebellidae	<i>Loimia crassifilis</i>	(Grube, 1878)
Terebellidae	<i>Loimia ingens</i>	(Grube, 1878)
Terebellidae	<i>Loimia medusa</i>	(Savigny, 1822)
Terebellidae	<i>Loimia nigrifilis</i>	Caullery, 1944
Terebellidae	<i>Lysilla loveni</i>	Malmgren, 1866
Terebellidae	<i>Lysilla pacifica</i>	Hessle, 1917

Terebellidae	<i>Neoamphitrite affinis</i>	(Malmgren, 1866)
Terebellidae	<i>Neoamphitrite edwardsi</i>	(Quatrefages, 1865)
Terebellidae	<i>Neoamphitrite robusta</i>	(Johnson, 1901)
Terebellidae	<i>Nicolea longibranchia</i>	Caullery, 1944
Terebellidae	<i>Nicolea venustula</i>	(Montagu, 1819)
Terebellidae	<i>Pista cristata</i>	(Müller, 1776)
Terebellidae	<i>Pista maculata</i>	(Dalyell, 1853)
Terebellidae	<i>Pista mirabilis</i>	McIntosh, 1885
Terebellidae	<i>Pista violacea</i>	Hartmann-Schröder, 1984
Terebellidae	<i>Streblosoma bairdi</i>	(Malmgren, 1866)
Terebellidae	<i>Terebella ehrenbergi</i>	Gravier, 1906
Terebellidae	<i>Thelepus cincinnatus</i>	(Fabricius, 1780)
Terebellidae	<i>Thelepus microbranchiatus</i>	Caullery, 1944
Terebellidae	<i>Thelepus robustus</i>	(Grube, 1878)
Terebellidae	<i>Thelepus setosus</i>	(Quatrefages, 1866)
Terebellidae	<i>Thelepus thoracicus</i>	(Grube, 1870)
Thalassematidae	<i>Thalassema ovatum</i>	Sluiter, 1902
Tomopteridae	<i>Tomopteris (Johnstonella) apsteini</i>	(Rosa, 1908)
Tomopteridae	<i>Tomopteris (Johnstonella) helgolandica</i>	(Greeff, 1879)
Tomopteridae	<i>Tomopteris (Johnstonella) pacifica</i>	(Izuka, 1914)
Tomopteridae	<i>Tomopteris cavallii</i>	Rosa, 1908
Tomopteridae	<i>Tomopteris krampi</i>	Wesenberg-Lund, 1936
Tomopteridae	<i>Tomopteris ligulata</i>	Rosa, 1908
Tomopteridae	<i>Tomopteris nationalis</i>	Apstein, 1900
Tomopteridae	<i>Tomopteris nisseni</i>	Rosa, 1908
Tomopteridae	<i>Tomopteris planktonis</i>	Apstein, 1900
Tomopteridae	<i>Tomopteris rolasi</i>	Greeff, 1885
Tomopteridae	<i>Tomopteris septentrionalis</i>	Steenstrup, 1849
Travisiidae	<i>Travisia forbesii</i>	Johnston, 1840
Travisiidae	<i>Travisia gravieri</i>	McIntosh, 1908
Travisiidae	<i>Travisia kerguelensis</i>	McIntosh, 1885
Travisiidae	<i>Travisia profundii</i>	Chamberlin, 1919
Trichobranchidae	<i>Terebellides kerguelensis</i>	McIntosh, 1885
Typhloscolecidae	<i>Sagitella kowalewskii</i>	Wagner, 1872
Typhloscolecidae	<i>Travisiopsis lanceolata</i>	Southern, 1910
Typhloscolecidae	<i>Travisiopsis levinseni</i>	Southern, 1910
Typhloscolecidae	<i>Travisiopsis lobifera</i>	Levinsen, 1885
Typhloscolecidae	<i>Typhloscolex muelleri</i>	Busch, 1851



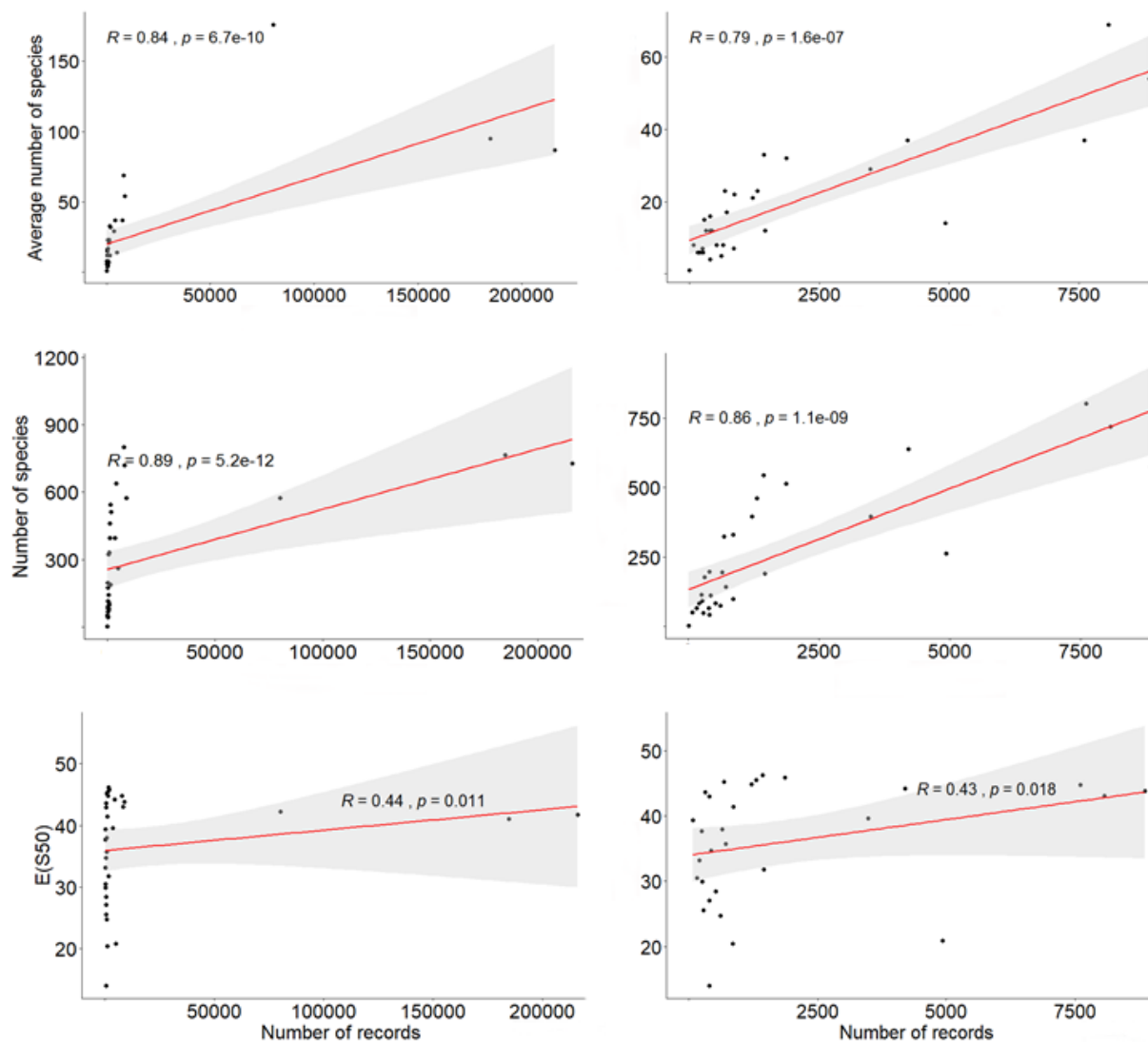


Fig. S1. Spearman correlation analyses between polychaete species richness – i.e. alpha (first row), gamma (second row), E(S50) (third row) – and the number of records per latitudinal band. Left and right graphs are the analyses including and excluding outliers, respectively.  $R$  is the Spearman's correlation coefficient. The analysis is highly significant with  $p$  value  $< 0.0001$  for alpha and gamma species richness, and  $p$  value  $< 0.05$  for E(S50). Red-solid line is the linear regression line. Grey shadings are the standard errors.

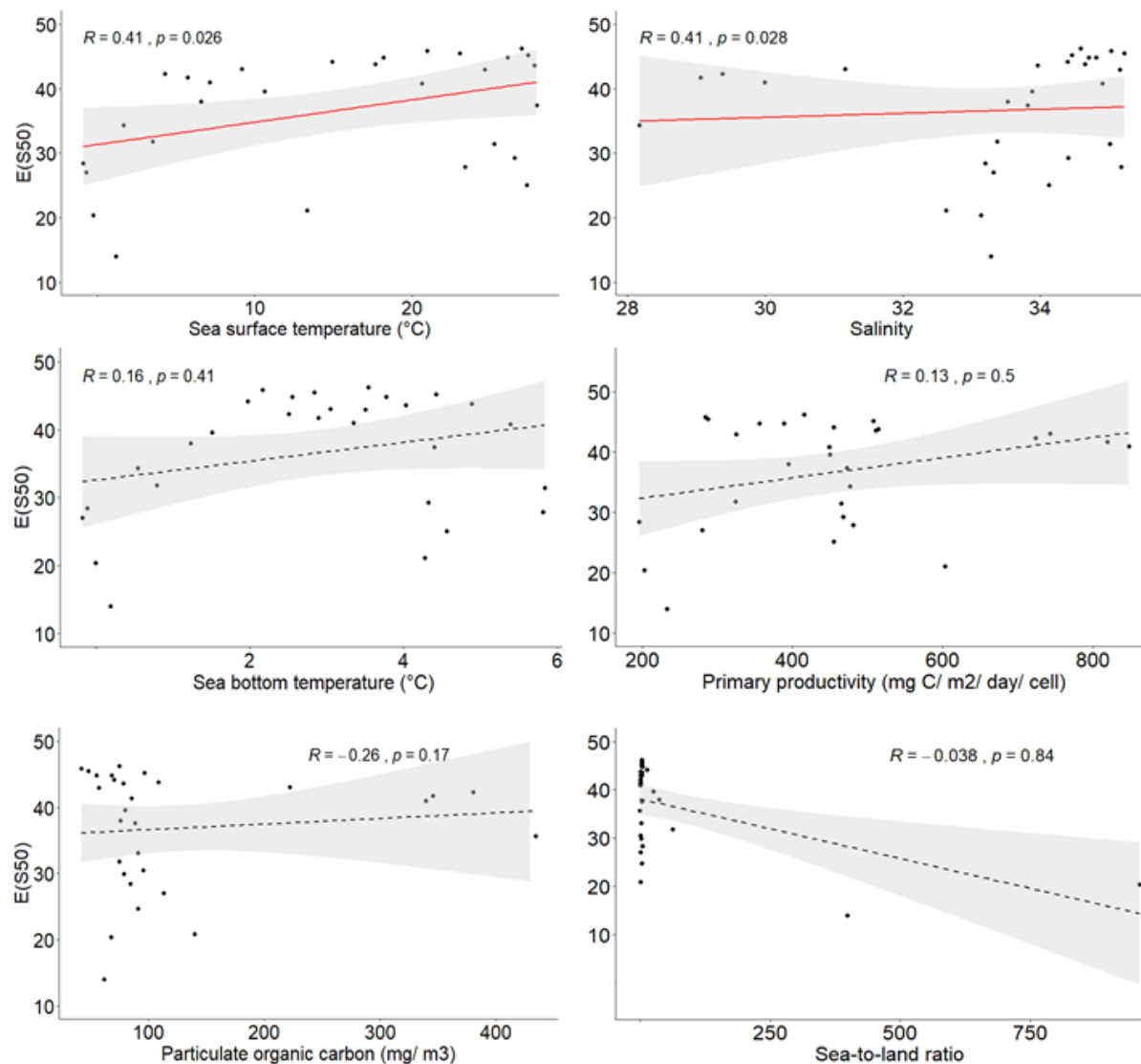


Fig. S2. Spearman correlation analyses between the E(S50) and several environmental variables per 5° latitudinal band.  $R$  is the Spearman's rank correlation coefficient. Visually, red-solid and black-dashed linear regression lines indicate significance at  $p < 0.05$  and non-significant correlations, respectively. Grey shadings are the standard errors.

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