

Table S2. Poriferan fauna of Mediterranean marine caves.

SPECIES	MEDITERRANEAN SUBAREAS									NUMBER OF CAVES	CAVE ZONES	
	SC	FC	LS	TS	TC	AN	AS	IS	NA	SA	LB	
Class HOMOSCLEROMORPHA												
Order HOMOSCLEROPHORIDA												
Family OSCARELLIDAE												
<i>Oscarella balibaloii</i> Pérez, Ivanisevic, Dubois, Pedel, Thomas, Tokina & Ereskovsky, 2011	+	+							+		4	CE, SD, D
<i>Oscarella lobularis</i> (Schmidt, 1862)	+	+	+	+	+	+	+	+	+		30	CE, SD, D
* <i>Oscarella microlobata</i> Muricy, Boury-Esnault, Bézac & Vacelet, 1996			+					+	+	+	4	D
<i>Oscarella tuberculata</i> (Schmidt, 1868)	+	+						+			6	SD, D
* <i>Oscarella viridis</i> Muricy, Boury-Esnault, Bézac & Vacelet, 1996			+								2	SD, D
* <i>Pseudocorticium jarrei</i> Boury-Esnault, Muricy, Gallissian & Vacelet, 1995							+	+	+		5	SD, D
Family PLAKINIDAE												
<i>Corticium candelabrum</i> Schmidt, 1862	+	+		+	+	+	+				14	SD, D
<i>Placinozapha moncharmonti</i> (Sarà, 1960)				+							1	D
<i>Plakina bowerbanki</i> (Sarà, 1960)				+	+	+	+	+	+		9	SD, D
* <i>Plakina crypta</i> Muricy, Boury-Esnault, Bézac & Vacelet, 1998		+									1	D
<i>Plakina dilophia</i> Schulze, 1880	+	+		+				+			4	SD
* <i>Plakina endoumensis</i> Muricy, Boury-Esnault, Bézac & Vacelet, 1998				+							1	SD
* <i>Plakina jani</i> Muricy, Boury-Esnault, Bézac & Vacelet, 1998		+									1	SD
<i>Plakina monolopha</i> Schulze, 1880	+		+					+			8	SD, D
<i>Plakina reducta</i> (Pulitzer-Finali, 1983)							+		+		3	
<i>Plakina topsenti</i> (Pouliquen, 1972)		+	+								3	D
<i>Plakina trilopha</i> Schulze, 1880	+	+		+		+	+	+			18	CE, SD, D
* <i>Plakina weinbergi</i> Muricy, Boury-Esnault, Bézac & Vacelet, 1998									+	+	2	
<i>Plakinastrella copiosa</i> Schulze, 1880		+						+			4	SD, D
<i>Plakortis simplex</i> Schulze, 1880	+	+		+		+	+		+		19	CE, SD, D
Class DEMOSPONGIAE												
Order SPIROPHORIDA												
Family TETILLIDAE												
<i>Cinachyrella levantinensis</i> Vacelet, Bitar, Carteron, Zibrowius & Perez, 2007									+		2	
<i>Craniella cranium</i> (Müller, 1776)							+				1	
* <i>Tetilla repens</i> (Sarà, 1958)				+							1	SD
Family SAMIDAE												
<i>Samus anomalous</i> Gray, 1867				+		+	+				5	CE
Order ASTROPHORIDA												
Family ANCORINIDAE												
<i>Holoxea furtiva</i> Topsent, 1892						+					1	D
<i>Jaspis johnstoni</i> (Schmidt, 1862)	+	+		+		+	+	+	+	+	25	CE, SD, D
<i>Penares candidata</i> (Schmidt, 1868)				+							1	
<i>Penares helleri</i> (Schmidt, 1864)	+	+	+	+		+	+	+	+	+	29	CE, SD, D
<i>Stelletta grubii</i> Schmidt, 1862				+	+		+				7	CE, SD, D
<i>Stelletta lactea</i> Carter, 1871				+	+						6	CE, SD, D
<i>Stryphnus mucronatus</i> (Schmidt, 1868)				+		+		+			4	SD, D
Family CALTHROPELLIDAE												
<i>Calthropella (Calthropella) pathologica</i> (Schmidt, 1868)	+	+									4	D

Family GEODIIDAE									
<i>Caminus vulcani</i> Schmidt, 1862			+						1 SD
<i>Erylus discophorus</i> (Schmidt, 1862)	+	+	+	+	+	+	+	+	32 CE, SD, D
<i>Erylus euastrum</i> (Schmidt, 1868)	+	+	+	+	+	+	+	+	29 CE, SD, D
<i>Erylus mamillaris</i> (Schmidt, 1862)			+						1
<i>Geodia conchilega</i> Schmidt, 1862		+		+	+	+			8 SD, D
<i>Geodia cydonium</i> (Jameson, 1811)	+	+	+	+	+		+	+	20 SD, D
<i>Isops intuta</i> (Topsent, 1892)		+		+	+				7 SD, D
Family PACHASTRELLIDAE									
* <i>Dercitus (Stoeba) dissimilis</i> (Sarà, 1959)			+						1 SD
<i>Dercitus (Stoeba) plicatus</i> (Schmidt, 1868)	+	+		+		+			8 CE, SD, D
<i>Pachastrella monilifera</i> Schmidt, 1868	+			+					5 SD, D
** <i>Poecillastra compressa</i> (Bowerbank, 1866)			+						1 CE, SD
** <i>Thenea muricata</i> (Bowerbank, 1858)			+						1 SD
<i>Triptolemma simplex</i> (Sarà, 1959)			+						1 SD
Family THOOSIDAE									
<i>Alectona millari</i> Carter, 1879	+		+		+	+			11 CE, SD, D
* <i>Delectona madreporica</i> Bavestrello, Calcinai, Cerrano, Sarà, 1997		+				+			2 SD
<i>Thoosa mollis</i> Volz, 1939	+	+		+		+			5 CE, SD, D
Family THROMBIDAE									
<i>Thrombus abyssi</i> (Carter, 1873)		+							1 D
Order HADROMERIDA									
Family CLIONAIDAE									
<i>Cliona celata</i> Grant, 1826	+	+	+	+	+	+	+	+	20 CE, SD, D
<i>Cliona janitrix</i> Topsent, 1932				+					1
<i>Cliona rhodensis</i> Rützler & Bromley, 1981					+	+	+		4 SD
<i>Cliona schmidti</i> (Ridley, 1881)	+		+		+	+	+	+	20 CE, SD, D
<i>Cliona vermicifera</i> Hancock, 1867						+			1 D
<i>Cliona viridis</i> (Schmidt, 1862)	+	+	+	+		+	+	+	27 CE, SD, D
<i>Cliothosa hancocki</i> (Schmidt, 1862)					+				2 SD, D
<i>Pione vastifica</i> (Hancock, 1849)	+		+		+		+		6 SD, D
<i>Spiroxya heteroclita</i> Topsent, 1896				+					1 D
<i>Spiroxya levispira</i> (Topsent, 1898)	+		+						3 D
<i>Volzia albicans</i> (Volz, 1939)						+			1 SD, D
Family HEMIASTERELLIDAE									
<i>Hemiamsterella aristoteliana</i> Voultsiadou-Koukoura & Van Soest, 1991							+		1 SD
<i>Paratimea loricata</i> (Sarà, 1958)			+						1 D
<i>Paratimea pierantonii</i> (Sarà, 1958)		+							1 SD
Family PLACOSPONGIIDAE									
<i>Placospongia decorticans</i> (Hanitsch, 1895)		+		+	+	+		+	14 CE, SD, D
Family POLYMASTIIDAE									
<i>Polymastia harmelini</i> Boury-Esnault & Bézac, 2007	+								1 CE
<i>Polymastia penicillus</i> (Montagu, 1818)			+						1 CE, SD
<i>Pseudotrichya hystrix</i> (Topsent, 1890)	+								1 D
Family SPIRASTRELLIDAE									
<i>Diplastrella bistellata</i> (Schmidt, 1862)	+	+	+	+	+	+	+	+	27 CE, SD, D
<i>Diplastrella ornata</i> Rützler & Sarà, 1962				+	+	+	+	+	10 D
<i>Spirastrella cunctatrix</i> Schmidt, 1868	+	+	+	+	+	+	+	+	61 CE, SD, D
Family SUBERITIDAE									
<i>Aaptos aaptos</i> (Schmidt, 1864)	+	+	+	+	+	+	+	+	31 CE, SD, D
<i>Prosuberites longispinus</i> Topsent, 1893	+		+		+				6 SD, D
<i>Protosuberites denhartogi</i> van Soest & de Kluijver, 2003	+		+			+			6 SD, D
<i>Protosuberites rugosus</i> (Topsent, 1893)							+		1 D
<i>Pseudosuberites sulphureus</i> (Bean in Bowerbank, 1866)			+						1 D
** <i>Rhizaxinella pyrifera</i> (Delle Chiaje, 1828)			+						1 SD

<i>Suberites carnosus</i> (Johnston, 1842)	+	+	+	+					10	CE, SD, D
<i>Suberites domuncula</i> (Olivi, 1792)					+				1	
<i>Terpios gelatinosa</i> (Bowerbank, 1866)	+	+	+	+	+	+	+	+	26	CE, SD, D
Family TETHYIDAE										
<i>Tethya aurantium</i> (Pallas, 1766)		+		+	+	+	+		17	CE, SD, D
<i>Tethya citrina</i> Sarà & Melone, 1965	+			+	+				3	D
Family TIMEIDAE										
<i>Timea bifidostellata</i> Pulitzer-Finali, 1983					+				1	
<i>Timea crassa</i> (Topsent, 1900)		+							1	SD
<i>Timea fasciata</i> Topsent, 1934	+		+		+	+			12	CE, SD, D
<i>Timea geministellata</i> Pulitzer-Finali, 1978					+		+		2	SD
<i>Timea stellata</i> (Bowerbank, 1866)			+		+				3	CE, SD
<i>Timea stellifasciata</i> Sarà & Siribelli, 1960					+				1	SD
<i>Timea unistellata</i> (Topsent, 1892)	+		+	+	+	+	+		13	CE, SD, D
Family TRACHYCLADIDAE										
<i>Trachycladus minax</i> (Topsent, 1888)	+		+		+				6	CE, SD, D
Order CHONDROSIDA										
Family CHONDRILLIDAE										
<i>Chondrilla nucula</i> Schmidt, 1862	+		+		+	+	+		7	CE, SD, D
<i>Chondrosia reniformis</i> Nardo, 1847	+	+	+	+	+	+	+	+	43	CE, SD, D
<i>Thymosiopsis conglomerans</i> Vacelet, Borchiellini, Perez, Bultel-Poncé, Brouard & Guyot, 2000	+				+				2	CE
* <i>Thymosiopsis cuticulatus</i> Vacelet & Perez, 1998	+				+		+	+	9	SD, D
Family HALISARCIDAE										
<i>Halisarca dujardini</i> Johnston, 1842	+	+	+	+					5	CE, D
Order LITHISTIDA										
Family SCLERITODERMIDAE										
* <i>Aciculites mediterranea</i> Manconi, Serusi & Pisera, 2006					+				1	D
* <i>Microscleroderma lamina</i> Perez, Vacelet, Bitar & Zibrowius, 2004								+	1	D
Family CORALLISTIDAE										
* <i>Neophrissospongia endoumensis</i> Pisera & Vacelet, 2011			+						1	SD
* <i>Neophrissospongia nana</i> Manconi & Serusi 2008				+					1	D
<i>Neophrissospongia nolitangere</i> (Schmidt, 1870)			+						2	D
* <i>Neophrissospongia radjae</i> Pisera & Vacelet, 2011					+				1	
<i>Neoschrammeniella bowerbankii</i> (Johnson, 1863)			+						3	D
Family THEONELLIDAE										
<i>Discodermia polymorpha</i> Pisera & Vacelet, 2011	+	+			+	+	+		11	SD, D
Family SIPHONIDIIDAE										
* <i>Gastrophanella phoeniciensis</i> Perez, Vacelet, Bitar & Zibrowius, 2004								+	1	D
Family DESMANTHIDAE										
<i>Petromica</i> (<i>Petromica</i>) <i>grimaldii</i> Topsent, 1898				+					1	D
Order POECILOSCLERIDA										
Family ACARNIDAE										
<i>Acarnus tortilis</i> Topsent, 1892	+		+		+	+			6	CE, SD, D
Family MICROcionidae										
<i>Anthro</i> (<i>Acarnia</i>) <i>coriacea</i> (Bowerbank, 1874)				+					1	D
<i>Anthro</i> (<i>Anthro</i>) <i>involvens</i> (Schmidt, 1864)	+	+	+		+	+			7	CE, SD, D
<i>Clathria</i> (<i>Clathria</i>) <i>compressa</i> Schmidt, 1862			+						2	SD, D
<i>Clathria</i> (<i>Clathria</i>) <i>coralloides</i> (Olivi, 1792)			+						1	
<i>Clathria</i> (<i>Clathria</i>) <i>toxistricta</i> Topsent, 1925			+						1	
<i>Clathria</i> (<i>Clathria</i>) <i>toxistyla</i> (Sarà, 1959)						+			4	CE
<i>Clathria</i> (<i>Clathria</i>) <i>toxivaria</i> (Sarà, 1959)		+	+	+		+	+		11	CE, SD
<i>Clathria</i> (<i>Microciona</i>) <i>ascendens</i> (Cabioch, 1968)		+							1	SD
<i>Clathria</i> (<i>Microciona</i>) <i>duplex</i> Sarà, 1958				+					3	SD
<i>Clathria</i> (<i>Microciona</i>) <i>gradalis</i> Topsent, 1925				+					1	

<i>Clathria (Microciona) poecilosclera</i> (Sarà & Siribelli, 1960)		+		1	D	
<i>Clathria (Microciona) spinarcus</i> (Carter & Hope, 1889)	+			1		
<i>Clathria (Microciona) strepsitoxa</i> (Hope, 1889)	+			1	SD, D	
<i>Clathria (Microciona) toximajor</i> Topsent, 1925		+		1	SD	
<i>Clathria (Microciona) toxitenuis</i> Topsent, 1925	+	+	+	7	CE, SD	
<i>Clathria (Thalysias) jolicoeuri</i> (Topsent, 1892)	+			3	CE, SD	
Family RASPAILIIDAE						
<i>Eurypon cinctum</i> Sarà, 1960		+		1		
<i>Eurypon clavatum</i> (Bowerbank, 1866)	+			3	SD, D	
<i>Eurypon lacazei</i> (Topsent, 1891)	+	+		6	SD, D	
<i>Eurypon major</i> Sarà & Siribelli, 1960			+	2	CE	
<i>Eurypon vesiculare</i> Sarà & Siribelli, 1960			+	3	CE, SD	
<i>Raspaciona aculeata</i> (Johnston, 1842)	+	+	+	9	CE, SD, D	
* <i>Raspaciona calva</i> Sarà, 1958			+	1	CE, SD	
<i>Raspaciona robusta</i> Sarà, 1958			+	2	CE, SD, D	
<i>Raspailia (Raspailia) viminalis</i> Schmidt, 1862	+			1		
Family RHABDEREMIIDAE						
<i>Rhabderemia gallica</i> van Soest & Hooper, 1993		+		1	D	
<i>Rhabderemia spinosa</i> Topsent, 1896	+		+	4	D	
<i>Rhabderemia topsenti</i> van Soest & Hooper, 1993	+			1	SD, D	
<i>Rhabderemia toxigera</i> Topsent, 1892	+			1	D	
Family CHONDROPSIDAE						
<i>Batzella inops</i> (Topsent, 1891)	+	+	+	+	6	CE, SD
Family COELOSPHAERIDAE						
<i>Forcepia (Leptolabis) luciensis</i> (Topsent, 1888)		+		1	SD, D	
<i>Lissodendoryx (Anomodoryx) cavernosa</i> (Topsent, 1892)			+	1		
<i>Lissodendoryx (Lissodendoryx) basispinosa</i> Sarà, 1958			+	1	CE	
Family CRAMBEIDAE						
<i>Crambe crambe</i> (Schmidt, 1862)	+	+	+	+	44	CE, SD, D
<i>Crambe tailliezi</i> Vacelet & Boury-Esnault, 1982		+			2	
Family CRELLIDAE						
<i>Crella (Crella) elegans</i> (Schmidt, 1862)		+	+		3	CE, D
<i>Crella (Grayella) pulvinar</i> (Schmidt, 1868)	+	+	+		9	CE, SD, D
<i>Crella (Pytheas) sigmata</i> Topsent, 1925		+			1	SD, D
* <i>Crella (Yvesia) nodulosa</i> Sarà, 1959			+		1	SD
<i>Crella (Yvesia) rosea</i> (Topsent, 1892)		+			3	SD, D
<i>Crella (Yvesia) topsenti</i> (Babić, 1922)			+		1	
Family HYMEDESMIIDAE						
<i>Hamigera hamigera</i> (Schmidt, 1862)		+		+	4	
<i>Hemimycale columella</i> (Bowerbank, 1874)	+	+	+	+	22	CE, SD, D
<i>Hymedesmia (Hymedesmia) baculifera</i> (Topsent, 1901)		+			1	
<i>Hymedesmia (Hymedesmia) castanea</i> Sarà, 1964			+		2	CE
<i>Hymedesmia (Hymedesmia) pansa</i> Bowerbank, 1882		+	+		3	SD, D
<i>Hymedesmia (Hymedesmia) peachi</i> Bowerbank, 1882	+	+	+	+	6	D
* <i>Hymedesmia (Hymedesmia) rectirhaphis</i> (Pulitzer-Finali, 1983)			+		1	
<i>Hymedesmia (Hymedesmia) versicolor</i> (Topsent, 1893)	+	+	+	+	10	CE, SD, D
<i>Hymedesmia (Hymedesmia) zetlandica</i> Bowerbank, 1864			+		1	SD
<i>Hymedesmia (Stylopus) coriacea</i> (Fristedt, 1885)		+	+	+	5	SD, D
<i>Hymedesmia (Stylopus) nigrescens</i> (Topsent, 1925)			+		1	
<i>Phorbas dives</i> (Topsent, 1891)		+	+		2	SD
<i>Phorbas fibulatus</i> (Topsent, 1893)		+	+		2	
<i>Phorbas fictitius</i> (Bowerbank, 1866)	+	+	+	+	14	CE, SD, D
<i>Phorbas plumosus</i> (Montagu, 1818)			+		1	
<i>Phorbas tailliezi</i> Vacelet & Perez, 2008				+	1	
<i>Phorbas tenacior</i> (Topsent, 1925)	+	+	+	+	54	CE, SD, D
<i>Phorbas topsenti</i> Vacelet & Perez, 2008		+	+	+	4	CE, SD
Family MYXILLIDAE						

<i>Myxilla (Myxilla) iotrochotina</i> (Topsent, 1892)	+	+		+	6	CE, SD
<i>Myxilla (Myxilla) macrosigma</i> Boury-Esnault, 1971	+				2	SD
<i>Myxilla (Myxilla) rosacea</i> (Lieberkühn, 1859)	+	+	+	+	5	SD, D
Family TEDANIIDAE						
<i>Tedania (Tedania) anhelans</i> (Lieberkühn, 1859)	+			+	3	CE
Family CLADORHIZIDAE						
<i>Asbestopluma hypogea</i> Vacelet & Boury-Esnault, 1996	+			+	3	CE, SD, D
Family HAMACANTHIDAE						
<i>Hamacantha (Hamacantha) papillata</i> Vosmaer, 1885	+				1	CE
Family MYCALIDAE						
<i>Mycale (Aegogropila) contarenii</i> (Martens, 1824)	+				1	
<i>Mycale (Aegogropila) rotalis</i> (Bowerbank, 1874)	+	+			4	CE, SD
<i>Mycale (Aegogropila) tunicata</i> (Schmidt, 1862)		+			1	CE, SD
<i>Mycale (Carmia) macilenta</i> (Bowerbank, 1866)	+				1	SD
<i>Mycale (Mycale) lingua</i> (Bowerbank, 1866)				+	1	CE
<i>Mycale (Mycale) massa</i> (Schmidt, 1862)	+	+	+		2	CE, D
* <i>Mycale (Paresperella) dentata</i> Sarà, 1958		+			1	SD
Family MERLIIDAE						
<i>Merlia deficiens</i> Vacelet, 1980	+				1	SD
<i>Merlia lipoclavidisca</i> Vacelet & Uriz, 1991				+	1	
<i>Merlia normani</i> Kirkpatrick, 1908	+	+	+	+	16	CE, SD, D
Order HALICHONDRIDA						
Family AXINELLIDAE						
<i>Axinella cannabina</i> (Esper, 1794)				+	5	SD
<i>Axinella damicornis</i> (Esper, 1794)	+	+	+	+	35	CE, SD, D
<i>Axinella polypoides</i> Schmidt, 1862		+		+	8	CE, SD
<i>Axinella rugosa</i> (Bowerbank, 1866)	+				1	
<i>Axinella vaseleti</i> Pansini, 1984		+	+		3	SD
<i>Axinella verrucosa</i> (Esper, 1794)	+	+	+	+	20	CE, SD, D
<i>Phakellia robusta</i> Bowerbank, 1866		+			2	SD
Family BUBARIDAE						
<i>Bubaris vermiculata</i> (Bowerbank, 1866)			+	+	5	SD, D
<i>Monocrepidium vermiculatum</i> Topsent, 1898	+	+	+		3	SD, D
Family DICTYONELLIDAE						
<i>Acanthella acuta</i> Schmidt, 1862	+	+	+	+	31	CE, SD, D
* <i>Acanthella annulata</i> Sarà, 1958			+		1	SD
<i>Dictyonella incisa</i> (Schmidt, 1880)	+	+	+	+	15	SD, D
<i>Dictyonella marsili</i> (Topsent, 1893)				+	2	CE, SD
<i>Dictyonella obtusa</i> (Schmidt, 1862)	+			+	2	D
<i>Dictyonella pelligera</i> (Schmidt, 1864)	+		+		2	CE, SD
* <i>Scopalina azurea</i> Bibiloni, 1993	+				1	D
<i>Scopalina lophyropoda</i> Schmidt, 1862	+				1	SD
<i>Tethyspira spinosa</i> (Bowerbank, 1874)			+		1	CE, SD
Family HALICHONDRIIDAE						
<i>Amorphinopsis pallescens</i> (Topsent, 1892)	+				1	
<i>Axinyssa papillosa</i> (Sarà & Siribelli, 1960)	+				1	D
<i>Ciocalypta penicillus</i> Bowerbank, 1862	+	+			4	SD
<i>Halichondria (Halichondria) contorta</i> (Sarà, 1961)	+	+		+	9	SD, D
<i>Halichondria (Halichondria) genitrix</i> (Schmidt, 1870)	+	+	+	+	6	SD, D
<i>Halichondria (Halichondria) panicea</i> (Pallas, 1766)	+	+	+		3	CE, SD
<i>Halichondria (Halichondria) semitubulosa</i> Lieberkühn, 1859	+	+	+	+	8	CE, D
<i>Hymeniacidon mixta</i> (Sarà, 1958)			+		1	
<i>Hymeniacidon perlevis</i> (Montagu, 1818)	+	+	+		8	CE, SD
* <i>Spongisorites cavernicola</i> Bibiloni, 1993	+				1	D
<i>Spongisorites flavens</i> Pulitzer-Finali, 1983	+	+	+	+	7	CE, SD, D
<i>Spongisorites intricatus</i> (Topsent, 1892)		+	+		2	CE, D
* <i>Topsentia garciae</i> Bibiloni, 1993	+				3	SD, D

<i>Topsentia lacazei</i> (Schmidt, 1868)		+	1	D
Family HETEROXYIDAE				
* <i>Didiscus pseudodidiscoides</i> (Corriero, Scalera-Liaci & Pronzato, 1996)		+	1	SD, D
<i>Didiscus spinoxeatus</i> Corriero, Scalera-Liaci & Pronzato, 1997	+		2	CE, SD, D
<i>Didiscus stylifer</i> Tsuruhashi, 1969		+	+	3
<i>Halicnemia geniculata</i> Sarà, 1958	+	+		2
<i>Halicnemia patera</i> Bowerbank, 1864	+	+		3
* <i>Higginsia ciccaresei</i> Pansini & Pesce, 1998		+	1	SD
<i>Myrmekioderma spelaeum</i> (Pulitzer-Finali, 1983)	+	+	+	12
Order AGELASIDA		+	+	SD, D
Family AGELASIDAE				
<i>Agelas oroides</i> (Schmidt, 1864)	+	+	+	64
Order HAPLOSCLERIDA	+	+	+	CE, SD, D
Family CALLYSPONGIIDAE				
<i>Callyspongia subcornea</i> Griessinger, 1971	+		3	CE, SD
<i>Siphonochalina coriacea</i> Schmidt, 1868	+		1	
Family CHALINIDAE				
<i>Chalinula limbata</i> (Montagu, 1818)		+	1	
* <i>Dendrectilla tremitensis</i> Pulitzer-Finali, 1983		+	1	
* <i>Dendroxea adumbrata</i> Corriero, Scalera-Liaci & Pronzato, 1996	+	+	+	4
<i>Dendroxea lenis</i> (Topsent, 1892)	+	+	+	13
<i>Haliclona (Gellius) angulata</i> (Bowerbank, 1866)	+		2	CE, SD, D
<i>Haliclona (Gellius) dubia</i> (Babic, 1922)			1	
<i>Haliclona (Gellius) fibulata</i> (Schmidt, 1862)	+	+	+	7
<i>Haliclona (Gellius) lacazei</i> (Topsent, 1893)	+	+		5
<i>Haliclona (Gellius) laxa</i> (Topsent, 1892)	+			2
<i>Haliclona (Gellius) microsigma</i> (Babic, 1922)	+			2
<i>Haliclona (Halichoclona) fulva</i> (Topsent, 1893)	+	+	+	21
<i>Haliclona (Halichoclona) parietalis</i> (Topsent, 1893)			+	SD, D
<i>Haliclona (Halichoclona) perlucida</i> (Griessinger, 1971)			+	SD
<i>Haliclona (Haliclona) simulans</i> (Johnston, 1842)	+	+		2
<i>Haliclona (Haliclona) varia</i> (Sarà, 1958)	+	+		CE, SD, D
<i>Haliclona (Reniera) aquaeductus</i> (Schmidt, 1862)	+		+	2
<i>Haliclona (Reniera) cinerea</i> (Grant, 1826)	+	+	+	9
<i>Haliclona (Reniera) citrina</i> (Topsent, 1892)	+			CE, SD, D
<i>Haliclona (Reniera) cratera</i> (Schmidt, 1862)	+	+	+	19
<i>Haliclona (Reniera) mediterranea</i> Griessinger, 1971	+		+	SD
<i>Haliclona (Reniera) subtilis</i> Griessinger, 1971	+	+		CE
<i>Haliclona (Rhizoniera) sarai</i> (Pulitzer-Finali, 1969)	+	+	+	30
<i>Haliclona (Soestella) mamillata</i> (Griessinger, 1971)	+		+	CE, SD, D
<i>Haliclona (Soestella) mucosa</i> (Griessinger, 1971)	+	+	+	26
<i>Haliclona (Soestella) valliculata</i> (Griessinger, 1971)	+	+		SD, D
<i>Haliclona aperta</i> (Sarà, 1960)	+			4
Family PHLOEODICTYIDAE				SD, D
<i>Calyx nicaeensis</i> (Risso, 1826)	+	+	+	4
* <i>Oceanapia constructa</i> (Rützler, 1965)		+	1	D
<i>Oceanapia decipiens</i> (Sarà, 1958)	+		1	SD
* <i>Oceanapia minor</i> (Sarà, 1958)	+		1	SD
* <i>Oceanapia vacua</i> (Sarà, 1961)	+		2	CE, D
Family PETROSIIDAE				
<i>Petrosia (Petrosia) ficiformis</i> (Poiret, 1789)	+	+	+	67
<i>Petrosia (Strongylophora) vansoesti</i> Boury-Esnault, Pansini & Uriz, 1994			+	SD, D
* <i>Petrosia pulitzeri</i> Pansini, 1996		+		2
Order DICTYOCERATIDA				

Family IRCINIIDAE											
<i>Ircinia dendroides</i> (Schmidt, 1862)	+	+	+	+	+	+	+	+	+	15	CE, SD, D
<i>Ircinia oros</i> (Schmidt, 1864)	+	+	+	+	+	+	+	+	+	23	CE, SD, D
<i>Ircinia paucifilamentosa</i> Vacelet, 1961							+	+		6	CE, SD, D
<i>Ircinia variabilis</i> (Schmidt, 1862)	+	+	+	+	+	+	+	+	+	65	CE, SD, D
<i>Sarcotragus foetidus</i> Schmidt, 1862	+	+		+	+	+	+		+	11	CE, SD, D
<i>Sarcotragus pipetta</i> (Schmidt, 1868)					+					2	SD
<i>Sarcotragus spinosulus</i> Schmidt, 1862	+	+	+	+		+	+	+	+	18	CE, SD, D
Family THORECTIDAE											
<i>Cacospongia mollior</i> Schmidt, 1862	+	+		+				+		12	CE, SD, D
<i>Fasciospongia cavernosa</i> (Schmidt, 1862)		+		+	+	+	+	+	+	14	CE, SD
<i>Hyrtios collectrix</i> (Schulze, 1880)								+		1	CE
<i>Scalarispongia proficens</i> (Pulitzer-Finali & Pronzato, 1980)							+			4	
<i>Scalarispongia scalaris</i> (Schmidt, 1862)	+	+	+	+		+	+	+		24	CE, SD, D
Family SPONGIIDAE											
<i>Coscinoderma sporadense</i> Voultsiadou-Koukoura, van Soest & Koukouras, 1991								+		4	SD
<i>Hippospongia communis</i> (Lamarck, 1814)	+	+		+		+				11	CE, SD, D
<i>Spongia (Spongia) lamella</i> (Schulze, 1879)		+								1	SD
<i>Spongia (Spongia) nitens</i> (Schmidt, 1862)		+				+		+	+	7	CE, SD, D
<i>Spongia (Spongia) officinalis</i> Linnaeus, 1759	+	+	+	+	+	+	+	+	+	26	CE, SD, D
<i>Spongia (Spongia) virgultosa</i> (Schmidt, 1868)	+	+	+	+		+	+	+	+	38	CE, SD, D
<i>Spongia (Spongia) zimocca</i> Schmidt, 1862					+					1	
Family DYSIDEIDAE											
<i>Dysidea avara</i> (Schmidt, 1862)	+	+		+		+	+	+	+	16	CE, SD, D
<i>Dysidea fragilis</i> (Montagu, 1818)	+	+	+	+	+	+	+	+	+	20	CE, SD, D
<i>Dysidea incrustans</i> (Schmidt, 1862)			+	+				+		4	CE, SD
<i>Dysidea tupha</i> (Martens, 1824)					+	+				3	
* <i>Euryspongia raouchensis</i> Vacelet, Bitar, Carteron, Zibrowius & Perez, 2007								+		1	
<i>Pleraplysilla spinifera</i> (Schulze, 1879)	+	+		+		+		+	+	20	CE, SD, D
Order DENDROCERATIDA											
Family DARWINELLIDAE											
<i>Aplysilla rosea</i> (Barrois, 1876)	+	+	+	+	+	+	+	+	+	25	CE, SD, D
<i>Chelonaplysilla noevis</i> (Carter, 1876)	+	+								4	SD, D
Family DICTYODENDRILLIDAE											
<i>Spongionella gracilis</i> (Vosmaer, 1883)					+					1	
<i>Spongionella pulchella</i> (Sowerby, 1804)	+	+						+		5	CE, SD
Order VERONGIDA											
Family APLYSINIDAE											
<i>Aplysina aerophoba</i> Nardo, 1843	+					+		+		4	CE, SD, D
<i>Aplysina cavernicola</i> (Vacelet, 1959)	+	+		+		+				14	CE, SD, D
Family IANTHELLIDAE											
<i>Hexadella pruvoti</i> Topsent, 1896	+	+						+	+	6	CE, SD, D
<i>Hexadella racovitzai</i> Topsent, 1896	+	+			+		+	+	+	6	CE, SD, D
Order DEMOSPONGIAE INCERTAE SEDIS											
<i>Myceliospongia araneosa</i> Vacelet & Perez, 1998	+	+								3	SD, D
Class CALCAREA											
Order CLATHRINIDA											
Family CLATHRINIDAE											
<i>Clathrina cerebrum</i> (Haeckel, 1872)			+							3	SD, D
<i>Clathrina clathrus</i> (Schmidt, 1864)	+	+	+			+	+	+	+	16	CE, SD, D
<i>Clathrina contorta</i> (Bowerbank, 1866)			+		+	+	+			11	CE, SD, D
<i>Clathrina primordialis</i> (Haeckel, 1872)			+							1	SD, D
<i>Clathrina reticulum</i> (Schmidt, 1862)			+							2	D
<i>Clathrina rubra</i> Sarà, 1958	+	+	+				+			7	CE, SD, D

<i>Guancha blanca</i> Miklucho-Maclay, 1868	+	+		5	CE, SD, D		
Family LEUCALTIDAE							
<i>Ascandra falcata</i> Haeckel, 1870	+	+	+	+	10	CE, SD, D	
Family LEUCETTIDAE							
<i>Leucetta solida</i> (Schmidt, 1862)	+	+	+	+	+	18	CE, SD, D
Order LEUCOSOLENIDA							
Family LEUCOSOLENIIDAE							
<i>Leucosolenia variabilis</i> (Haeckel, 1870)	+	+	+			4	CE, SD, D
Family AMPHORISCIDAE							
<i>Amphoriscus salpii</i> Sarà, 1951			+			1	SD, D
Family GRANTIIDAE							
<i>Leucandra aspera</i> (Schmidt, 1862)		+	+	+		7	CE, SD, D
<i>Leucandra crambessa</i> Haeckel, 1872			+			2	CE, SD, D
<i>Ute glabra</i> Schmidt, 1864		+				1	
Family SYCETTIDAE							
<i>Sycon ciliatum</i> (Fabricius, 1780)			+			2	CE, SD, D
<i>Sycon elegans</i> (Bowerbank, 1845)	+	+	+	+	+	7	CE, SD, D
<i>Sycon humboldti</i> Risso, 1826					+	1	
<i>Sycon raphanus</i> Schmidt, 1862		+	+	+		6	CE, SD, D
Order LITHONIDA							
Family MINCHINELLIDAE							
<i>Monoplectroninia hispida</i> Pouliquen & Vacelet, 1970	+					1	D
* <i>Plectroninia hindlei mediterranea</i> Vacelet, 1967	+					1	D
Family PETROBIONIDAE							
<i>Petrobiona massiliiana</i> Vacelet & Lévi, 1958	+	+	+	+	+	18	SD, D
Class HEXACTINELLIDA							
Order LYSSACINOSIDA							
Family LEUCOPSACIDAE							
<i>Opsacas minuta</i> Topsent, 1927	+			+		6	D

For Mediterranean subareas abbreviations see Methods. For cave zones abbreviations see Table S1.

* Species found exclusively in marine caves up to date.

** The presence of this species in marine caves, recorded by Russ & Rützler (1959), has been disputed by Vacelet (1969).