

Online Resource 1. Hard coral species of families Fungiidae, Agariciidae and Euphylliidae observed at Semporna

Sampling site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Fungiidae																		
<i>Cantharellus doederleini</i> (Von Marenzeller, 1907)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>C. jebbi</i> Hoeksema, 1993	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>C. noumeae</i> Hoeksema and Best, 1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ctenactis albitentaculata</i> Hoeksema, 1989	1	1	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0
<i>C. crassa</i> (Dana, 1846)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
<i>C. echinata</i> (Pallas, 1766)	1	1	0	1	0	1	1	0	1	1	1	0	1	1	0	1	0	1
<i>Cycloseris costulata</i> (Ortmann, 1889)	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1	1	1	1
<i>C. curvata</i> (Hoeksema, 1989)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>C. cyclolites</i> (Lamarck, 1816)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>C. distorta</i> (Michelin, 1842)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>C. fragilis</i> (Alcock, 1893)	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>C. hexagonalis</i> (Milne Edwards and Haime, 1848)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>C. mokai</i> (Hoeksema, 1989)	1	0	1	0	1	0	0	0	1	1	0	1	1	1	0	0	0	0
<i>C. sinensis</i> Milne Edwards and Haime, 1851	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>C. somervillei</i> (Gardiner, 1909)	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Cycloseris spec.</i>	0	0	1	0	1	0	0	0	1	0	0	1	0	1	1	0	0	0
<i>C. tenuis</i> (Dana, 1846)	1	0	1	0	0	0	0	1	1	0	1	1	1	1	1	1	0	1
<i>C. vaughani</i> (Boschma, 1923)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Danafungia horrida</i> (Dana, 1846)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
<i>D. scruposa</i> (Klunzinger, 1879)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Fungia fungites</i> (Linnaeus, 1758)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Halomitra clavator</i> Hoeksema, 1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>H. pileus</i> (Linnaeus, 1758)	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	0	0
<i>Heliofungia actiniformis</i> (Quoy and Gaimard, 1853)	1	0	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1
<i>H. fralinae</i> (Nemenzo, 1955)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Herpolitha limax</i> (Esper, 1797)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Lithophyllon concinna</i> (Verrill, 1864)	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1
<i>L. ranjithi</i> Ditlev, 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. repanda</i> (Dana, 1846)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>L. scabra</i> (Döderlein, 1901)	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
<i>L. spinifer</i> (Claereboudt and Hoeksema, 1987)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. undulatum</i> Rehberg, 1892	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0
<i>Lobactis scutaria</i> (Lamarck, 1801)	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0
<i>Pleuractis granulosa</i> (Klunzinger, 1879)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>P. gravis</i> (Nemenzo, 1955)	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1
<i>P. moluccensis</i> (Van der Horst, 1919)	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1
<i>P. paumotensis</i> (Stutchbury, 1833)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>P. seychellensis</i> (Hoeksema, 1993)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. taiwanensis</i> Hoeksema and Dai, 1991	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Podabacia crustacea</i> (Pallas, 1766)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>P. kunzmanni</i> Hoeksema, 2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. motuporensis</i> Veron, 1990	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. sinai</i> Veron, 2002	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polyphyllia novaehiberniae</i> (Lesson, 1831)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. talpina</i> (Lamarck, 1801)	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1
<i>Sandalolitha boucheti</i> Hoeksema, 2012	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<i>S. dentata</i> Quelch, 1884	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0
<i>S. robusta</i> (Quelch, 1886)	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Zoopilus echinatus</i> Dana, 1846	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Total	22	17	28	23	17	18	18	19	22	17	23	22	19	23	14	20	15	20

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Sampling site	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	36b	37	38	39	40
<i>Cantharellus doederleini</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>C. jebbi</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>C. noumeae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ctenactis albitentaculata</i>	0	0	0	0	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	0
<i>C. crassa</i>	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>C. echinata</i>	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
<i>Cycloseris costulata</i>	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>C. curvata</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>C. cyclolites</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>C. distorta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>C. fragilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>C. hexagonalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>C. mokai</i>	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1
<i>C. sinensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0
<i>C. somervillei</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cycloseris spec.</i>	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0
<i>C. tenuis</i>	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0
<i>C. vaughani</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Danafungia horrida</i>	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
<i>D. scruposa</i>	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1
<i>Fungia fungites</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Halomitra clavator</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>H. pileus</i>	0	0	0	0	0	1	0	1	1	1	0	0	0	1	1	1	1	1	1	0	1	0	0
<i>Heliofungia actiniformis</i>	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>H. fralinae</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
<i>Herpolitha limax</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Lithophyllon concinna</i>	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>L. ranjithi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1
<i>L. repanda</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>L. scabra</i>	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1
<i>L. spinifer</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>L. undulatum</i>	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Lobactis scutaria</i>	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Pleuractis granulosa</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>P. gravis</i>	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0
<i>P. moluccensis</i>	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	1	1	1	1	1	0	1	1
<i>P. paumotensis</i>	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>P. seychellensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. taiwanensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
<i>Podabacia crustacea</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>P. kunzmanni</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. motuporensis</i>	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	1	0	1	1	1	0	0	0
<i>P. sinai</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polyphyllia novaehiberniae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. talpina</i>	0	1	1	1	0	1	1	1	1	1	0	1	1	0	1	0	0	1	1	0	1	0	0
<i>Sandalolitha boucheti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>S. dentata</i>	0	0	0	1	0	0	0	1	1	1	0	0	1	0	0	0	0	1	1	0	0	0	0
<i>S. robusta</i>	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0
<i>Zoopilus echinatus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	17	20	15	20	22	23	19	24	21	23	15	16	21	17	24	21	22	27	25	21	22	21	18

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Sampling site	41	42	43	43b	44	45	46	47	48	49	49b	50	51	52	53	54	55	56	57	58	59	60	Total
<i>Cantharellus doederleini</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>C. jebbi</i>	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	7
<i>C. noumeae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ctenactis albitentaculata</i>	1	0	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	0	33
<i>C. crassa</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	58
<i>C. echinata</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	55
<i>Cycloseris costulata</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	59
<i>C. curvata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<i>C. cyclolites</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
<i>C. distorta</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
<i>C. fragilis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	1	0	0	0	9
<i>C. hexagonalis</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
<i>C. mokai</i>	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	38
<i>C. sinensis</i>	1	0	1	1	0	0	0	1	0	1	1	1	0	1	1	0	1	1	1	0	0	0	17
<i>C. somervillei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<i>Cycloseris spec.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
<i>C. tenuis</i>	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	36
<i>C. vaughani</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Danafungia horrida</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	59
<i>D. scruposa</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	60
<i>Fungia fungites</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	61
<i>Halomitra clavator</i>	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	5
<i>H. pileus</i>	1	0	1	0	1	1	1	1	0	0	1	1	1	1	1	1	0	0	1	0	0	0	37
<i>Heliofungia actiniformis</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	58
<i>H. fralinae</i>	1	0	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	11
<i>Herpolitha limax</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	63
<i>Lithophyllon concinna</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	57
<i>L. ranjithi</i>	0	0	0	1	0	0	1	1	1	1	1	0	0	0	0	1	1	0	1	0	0	0	13
<i>L. repanda</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	63
<i>L. scabra</i>	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	37
<i>L. spinifer</i>	0	0	0	0	0	0	1	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	8
<i>L. undulatum</i>	0	0	0	1	0	0	0	0	1	1	1	0	1	0	0	0	1	1	1	0	0	0	16
<i>Lobactis scutaria</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
<i>Pleuractis granulosa</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	63
<i>P. gravis</i>	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	54
<i>P. moluccensis</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	52
<i>P. paumotensis</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	62
<i>P. seychellensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. taiwanensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<i>Podabacia crustacea</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	63
<i>P. kunzmanni</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. motuporensis</i>	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	11
<i>P. sinai</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Polyphyllia novaehiberniae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. talpina</i>	1	1	1	1	1	1	0	0	1	0	0	1	1	1	1	1	1	1	0	0	0	0	43
<i>Sandalolitha boucheti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>S. dentata</i>	1	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	15
<i>S. robusta</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	59
<i>Zoopilus echinatus</i>	1	0	1	0	0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	11
Total	29	19	25	22	23	26	24	25	23	25	26	22	24	27	29	22	21	21	25	16	17	13	

Online Resource 1 cont.

	Sampling site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Agariciidae																					
<i>Coelosseris mayeri</i> Vaughan, 1918		0	1	0	1	1	-	1	0	1	0	0	1	1	0	0	0	0	1	1	0
<i>Gardineroseris planulata</i> (Dana, 1846)		1	1	0	0	1	-	0	0	0	1	1	1	0	1	1	1	1	1	1	1
<i>Leptoseris amitoriensis</i> Veron, 1990		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. foliosa</i> Dinesen, 1980		0	0	0	0	0	-	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. fragilis</i> Milne Edwards and Haime, 1849		0	0	1	0	0	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>L. gardineri</i> Van der Horst, 1921		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. glabra</i> Dinesen, 1980		0	0	1	0	0	-	0	1	1	1	0	1	1	1	0	1	0	0	0	0
<i>L. hawaiiensis</i> Vaughan, 1907		0	0	1	0	0	-	0	1	1	1	0	1	1	1	0	1	1	0	0	0
<i>L. incrustans</i> (Quelch, 1886)		0	0	1	0	1	-	1	0	0	0	0	0	0	1	0	0	1	0	0	0
<i>L. kalayaanensis</i> Licuanan and Aliño, 2009		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. mysetoseroides</i> Wells, 1954		0	0	1	0	0	-	0	1	0	0	0	0	0	1	1	1	1	0	0	1
<i>L. papyracea</i> (Dana, 1846)		0	0	1	0	0	-	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. scabra</i> Vaughan 1907		0	0	1	1	0	-	0	1	1	1	0	1	1	1	1	1	1	0	0	0
<i>L. solida</i> (Quelch, 1886)		0	0	0	0	0	-	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>L. striata</i> Fenner and Veron, 2000		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. tubulifera</i> Vaughan, 1907		0	0	1	1	0	-	1	1	1	0	0	1	0	1	0	0	1	0	0	0
<i>L. yabei</i> (Pillai and Scheer, 1976)		0	0	0	0	0	-	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pachyseris foliosa</i> Veron, 1990		1	0	1	1	0	-	1	1	1	1	1	0	1	1	0	1	0	1	1	1
<i>P. gemmae</i> Nemenzo, 1955		1	1	1	1	1	-	1	1	1	0	1	0	1	0	1	0	0	1	0	0
<i>P. involuta</i> (Studer, 1877)		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. rugosa</i> (Lamarck, 1801)		0	0	0	0	0	-	0	0	0	1	1	0	1	1	0	0	1	1	1	1
<i>P. speciosa</i> (Dana, 1846)		1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Pavona bipartita</i> Nemenzo, 1980		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	1	1	0	0
<i>P. cactus</i> (Forskål, 1775)		0	0	1	0	0	-	1	0	0	0	1	0	0	0	0	0	0	1	1	1
<i>P. clavus</i> (Dana, 1846)		1	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	1	0	1
<i>P. danai</i> Milne Edwards and Haime, 1860		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. decussata</i> (Dana, 1846)		0	0	1	0	0	-	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>P. divaricata</i> (Lamarck, 1816)		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. duerdeni</i> Vaughan, 1907		0	0	0	0	0	-	0	0	0	0	0	0	0	1	0	0	0	1	0	1
<i>P. explanulata</i> (Lamarck, 1816)		0	1	0	0	0	-	0	1	1	1	0	1	0	1	1	1	1	1	1	1
<i>P. frondifera</i> (Lamarck, 1816)		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. maldivensis</i> (Gardiner, 1905)		1	0	1	0	0	-	0	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>P. minuta</i> Wells, 1954		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. varians</i> Verrill, 1864		1	1	1	1	1	-	1	1	1	1	1	1	0	1	1	1	1	1	1	1
<i>P. venosa</i> (Ehrenberg, 1834)		1	1	1	1	1	-	0	0	0	1	0	1	1	1	1	0	1	1	0	1
Total		8	7	16	8	7	-	10	12	10	10	7	12	9	15	8	9	13	13	8	12

Online Resource 1 cont.

Sampling site	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
<i>Coeloseris mayeri</i>	1	1	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1
<i>Gardineroseris planulata</i>	1	0	0	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1
<i>Leptoseris amitoriensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. foliosa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0
<i>L. fragilis</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. gardineri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>L. glabra</i>	0	0	1	1	0	1	1	1	1	0	1	1	1	0	0	1	1	0	0	0	1	0
<i>L. hawaiiensis</i>	0	0	1	1	0	0	1	1	1	0	0	1	0	1	1	1	1	0	1	1	1	1
<i>L. incrustans</i>	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. kalayaanensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. mysetoseroides</i>	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
<i>L. papyracea</i>	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	1	1	1	0
<i>L. scabra</i>	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
<i>L. solida</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. striata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. tubulifera</i>	0	0	1	0	1	0	1	0	1	1	1	1	1	0	0	1	1	0	0	0	1	0
<i>L. yabei</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	1	0	0
<i>Pachyseris foliosa</i>	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1
<i>P. gemmae</i>	1	1	0	1	1	1	1	1	1	0	0	0	0	1	1	0	0	1	0	0	0	1
<i>P. involuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. rugosa</i>	1	1	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	0	1	1	1
<i>P. speciosa</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Pavona bipartita</i>	0	0	0	1	0	1	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0
<i>P. cactus</i>	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	1	1	0	1	0
<i>P. clavus</i>	1	0	0	0	1	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>P. danai</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>P. decussata</i>	1	1	0	1	1	0	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1
<i>P. divaricata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. duerdeni</i>	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. explanulata</i>	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1	1	1	0	1	1
<i>P. frondifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0
<i>P. maldivensis</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	0	1	0	1	0
<i>P. minuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. varians</i>	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>P. venosa</i>	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0	0	0	1	0	0	0	0
Total	12	9	12	15	12	12	16	16	19	8	9	8	15	16	12	19	15	12	15	12	16	11

Online Resource 1 cont.

Sampling site	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	Total
<i>Coeloseris mayeri</i>	1	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	0	1	36
<i>Gardineroseris planulata</i>	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	0	1	1	43
<i>Leptoseris amitoriensis</i>	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>L. foliosa</i>	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	7
<i>L. fragilis</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<i>L. gardineri</i>	0	1	0	0	1	1	1	0	0	1	0	0	0	0	1	0	0	0	7
<i>L. glabra</i>	0	1	1	1	1	1	0	0	1	0	0	0	1	0	1	1	1	1	31
<i>L. hawaiiensis</i>	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	38
<i>L. incrustans</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	12
<i>L. kalayaanensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. mysetoseroides</i>	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	1	1	37
<i>L. papyracea</i>	0	1	1	0	1	1	0	1	1	1	1	0	0	1	1	0	1	0	22
<i>L. scabra</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	49
<i>L. solida</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<i>L. striata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>L. tubulifera</i>	0	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0	1	0	26
<i>L. yabei</i>	0	0	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	10
<i>Pachyseris foliosa</i>	1	0	1	1	1	1	1	1	0	1	1	1	0	0	1	1	0	0	36
<i>P. gemmae</i>	1	0	0	0	1	1	0	1	1	1	0	1	0	0	1	0	1	1	34
<i>P. involuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. rugosa</i>	1	0	0	1	1	1	0	1	0	0	1	0	0	0	0	1	1	1	28
<i>P. speciosa</i>	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	58
<i>Pavona bipartita</i>	0	1	1	1	0	0	0	0	0	0	1	0	0	1	0	1	0	0	15
<i>P. cactus</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	28
<i>P. clavus</i>	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	1	1	1	15
<i>P. danai</i>	0	1	0	1	0	0	0	1	1	0	1	1	1	1	0	0	1	0	12
<i>P. decussata</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	37
<i>P. divaricata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. duerdeni</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	10
<i>P. explanulata</i>	0	1	1	1	1	1	0	1	0	0	0	0	1	1	1	1	0	1	41
<i>P. frondifera</i>	1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	8
<i>P. maldivensis</i>	1	1	1	0	0	1	1	1	1	0	1	1	1	0	1	1	0	1	25
<i>P. minuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
<i>P. varians</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	57
<i>P. venosa</i>	0	1	1	1	0	0	0	1	0	0	1	1	1	0	0	0	1	1	34
Total	12	21	18	18	17	16	11	19	14	13	17	16	13	13	16	13	16	19	

Online Resource 1 cont.

	Sampling site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Euphylliidae																			
<i>Catalaphyllia jardinei</i> (Saville-Kent, 1893)		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	1
<i>Euphyllia ancora</i> Veron and Pichon, 1980		1	1	1	1	1	-	1	1	0	0	1	0	1	1	0	1	1	1
<i>E. cristata</i> Chevalier, 1971		0	0	0	1	0	-	0	0	0	0	0	0	0	0	0	1	0	0
<i>E. divisa</i> Veron and Pichon, 1980		1	1	1	1	0	-	1	1	1	1	1	0	1	0	0	1	0	1
<i>E. glabrescens</i> (Chamisso and Eysenhardt, 1821)		1	1	1	1	0	-	1	1	1	0	1	0	1	1	1	1	1	1
<i>E. paraancora</i> Veron, 1990		0	0	1	0	0	-	1	1	1	0	0	0	1	0	0	1	1	0
<i>E. paradivisa</i> Veron, 1990		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0
<i>E. paraglabrescens</i> Veron, 1990		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0
<i>E. yaeyamaensis</i> (Shirai, 1980)		0	0	0	0	0	-	0	1	1	0	0	0	0	0	0	0	0	0
<i>Nemanzophyllia turbida</i> Hodgson and Ross, 1981		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0
<i>Physogyra lichtensteini</i> Milne Edwards and Haime, 1851		1	1	0	1	0	-	1	1	1	0	1	0	1	1	0	1	1	0
<i>Plerogyra cauliformis</i> Ditlev, 2003		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. diabolus</i> Ditlev, 2003		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. discus</i> Veron and Fenner, 2000		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. multilobata</i> Ditlev, 2003		0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	1
<i>P. simplex</i> Rehberg, 1892		0	0	0	1	0	-	0	0	0	0	0	0	0	0	0	0	1	1
<i>P. sinuosa</i> (Dana, 1846)		1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1
Total		5	5	5	7	2	-	6	7	6	2	5	1	6	4	2	7	6	7

Online Resource 1 cont.

Sampling site	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
<i>Catalaphyllia jardinei</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
<i>Euphyllia ancora</i>	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	1	0	0	0	1	1
<i>E. cristata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>E. divisa</i>	0	0	1	1	1	1	1	1	0	0	0	1	0	0	1	1	0	1	0	0	1	1
<i>E. glabrescens</i>	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	0
<i>E. paraancora</i>	0	0	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0
<i>E. paradivisa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
<i>E. paraglabrescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>E. yaeyamaensis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Nemanzophyllia turbida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
<i>Physogyra lichtensteini</i>	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0
<i>Plerogyra cauliformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. diabolus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. discus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. multilobata</i>	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. simplex</i>	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
<i>P. sinuosa</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
Total	6	3	9	7	7	7	6	5	3	2	2	5	4	5	5	4	5	6	2	2	10	4

Online Resource 1 cont.

Sampling site	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	Total
<i>Catalaphyllia jardinei</i>	0	0	0	0	0	0	1	1	1	0	0	0	1	0	1	1	0	0	0	0	10
<i>Euphyllia ancora</i>	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	0	1	44
<i>E. cristata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	4
<i>E. divisa</i>	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	41
<i>E. glabrescens</i>	1	1	1	0	1	0	1	1	1	1	0	0	1	0	1	1	1	1	0	0	45
<i>E. paraancora</i>	1	0	1	0	0	1	0	1	1	0	0	1	0	0	1	1	1	1	0	0	25
<i>E. paradivisa</i>	0	0	0	0	0	0	1	1	0	1	0	0	0	0	1	1	0	0	0	0	7
<i>E. paraglabrescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>E. yaeyamaensis</i>	1	0	1	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	0	0	14
<i>Nemanzophyllia turbida</i>	0	0	1	0	1	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	7
<i>Physogyra lichtensteini</i>	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	47
<i>Plerogyra cauliformis</i>	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	4
<i>P. diabolus</i>	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	0	0	0	9
<i>P. discus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>P. multilobata</i>	1	0	1	1	1	0	1	1	0	1	0	0	1	0	1	1	1	1	0	0	17
<i>P. simplex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
<i>P. sinuosa</i>	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	56
Total	8	5	9	4	7	4	9	12	9	9	4	7	9	5	10	11	11	8	1	3	