ATOLL RESEARCH BULLETIN

NO. 459

SPECIES RICHNESS OF RECENT SCLERACTINIA

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ISSUED BY
NATIONAL MUSEUM OF NATURAL HISTORY
SMITHSONIAN INSTITUTION
WASHINGTON, D.C., U.S.A.
AUGUST 1999

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ABSTRACT

Most previous estimates of the number of valid, described Recent species (known species richness) of Scleractinia have been unsupported guesses ranging from 1000-2500 species. The actual number, based on a list of all senior synonyms, is approximately 1314, classified in 24 families and 220 genera (average number of species per genus = 5.97), 79 of the genera being monotypic. The numbers of zooxanthellate and azooxanthellate species and genera are about the same: e.g., zooxanthellates contributing to 48.2% of the genera and 49.5% of the species. Over the last three decades an average of 16.1 new species of Scleractinia have been described each year. Although the yearly rate of new descriptions is very uneven, the decadal trend appears to indicate a gradual decrease in the number of newly described zooxanthellate species and genera, balanced by an increase in the number of newly described azooxanthellate species and genera. An estimate of total species richness was made based on the perceived ratio of described to undescribed species of Scleractinia ascertained from the analysis of comprehensive faunistic analyses and taxonomic revisions. This method estimates a minimum of 1479 species. A second, less reliable method, which is based on the rates of species descriptions over time, suggests a range of 1460-2628 species.

EPIGRAPH

"There are about 2500 living species of corals and over 5000 extinct ones; hence these animals reached their height in past ages and are now on the decline." (Hyman, 1940: 620)

KNOWN SPECIES RICHNESS

Historical Estimates

Estimates of the number of valid, described, living (modern) species of Scleractinia range from a low of 1000 (Kaestner, 1964) to a high of 2500 species (Hyman, 1940)(see Table 1). Most of these estimates are educated guesses, not accompanied or based on a listing of actual species names that would allow for hypothesis testing and constructive criticism. The first publication purporting to list all scleractinian species was that of the World Conservation

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Manuscript received 6 November 1998; revised 7 April 1999

Table 1.–Estimates of Known and Total Species Richness of Scleractinia

Year	Author	Zooxanthellate			Azoox-	Total
		I-Pac	Atl.	Total	anthellate	
Estimates of Known Species Richness:						
1925: 825	Kükenthal	-	-	-	-	2500
1940:620	Hyman	-	-	-	-	2500
1943: 77-90	Vaughan & Wells	>500	48	548	~453	>1001
1956: 360	Wells	>500	-	-	-	-
1967:115	Kaestner	-	-	-	-	1000
1967:79	Wilmoth	-	-	-	-	2500
1981:120	Rosen	500	68	568	-	-
1982:611	Cairns & Stanley	-	-	940	560	1500
1982:701	Dunn	-	-	-	-	2500
1985:37	Naumov, et al.	-	-	550	-	2500
1985: 18	Kühlmann	-	-	-	-	2500
1986: 179	Cairns, et al.	-	-	-	-	2500
1986:1	Veron	~500	-	-	-	-
1987:642,668	Chevalier	700	70	770	<850	<1620
1988: 67	Schuhmacher	500	84	584	-	-
1989: 35	Zibrowius	500	60	560	~560	~1120
1990: 206	Brusca & Brusca	-	-	-	-	2500
1991: 476	Jackson	-	-	750	-	-
1993: 60-136	WCMC	547	68	615	425	1040
1995: 160	Veron	-	-	833	-	-
1997: 2	Cairns	-	-	-	617	-
1999 (herein)	**Cairns, Hoeksema & van der Land**	**585**	**70**	**656**	**669**	***1314**
Estimates of Total Species Richness:						
Based on partial inventory (see text)		-	-	>696	>781	>1479
Based on rate of description (see text)		-	-	-	-	1460-2628

*allows for 11 facultative species

Table 2.–Numbers of valid species (and genera), monotypic genera, and average number of species per genus of the Recent Scleractinia, arranged by family from highest number of species to lowest.

Family	Zooxan-thellate	Azooxan-thellate	*Facul-tative	Total	Mono-typic Genera	Ave. Species Per Genus
Caryophylliidae	25(10)	274(43)	3(2)	296(51)	17	5.8
Acroporidae	199(4)	0	0	199(4)	0	49.8
Dendrophylliidae	15(3)	135(17)	2(1)	148(19)	4	7.8
Faviidae	103(24)	0	0	103(24)	9	4.3
Flabellidae	0	98(10)	0	98(10)	2	9.8
Poritidae	74(4)	0	0	74(4)	1	18.5
Turbinoliidae	0	51(22)	0	51(22)	7	2.3
Mussidae	46(13)	0	0	46(13)	6	3.5
Agariciidae	45(7)	0	0	45(7)	3	6.4
Fungiidae	44(11)	0	0	44(11)	3	4.0
Rhizangiidae	1(1)	33(4)	1(1)	33(4)	0	8.3
Pocilloporidae	22(4)	10(1)	2(1)	30(4)	1	7.5
Siderastreidae	27(6)	0	0	27(6)	3	4.5
Oculinidae	14(5)	15(6)	3(1)	26(10)	7	2.6
Fungiacyathidae	0	20(1)	0	20(1)	0	20.0
Pectinidae	19(5)	0	0	19(5)	0	3.8
Micrabaciidae	0	13(4)	0	13(4)	0	3.3
Merulinidae	12(5)	0	0	12(5)	3	2.4
Anthemiphylliidae	0	7(1)	0	7(1)	0	7.0
Guyniidae	0	7(7)	0	7(7)	7	1.0
Gardineriidae	0	5(1)	0	5(1)	0	5.0
Meandrinidae	5(4)	0	0	5(4)	3	1.3
Astrocoeniidae	4(2)	0	0	4(2)	1	2.0
Trachyphylliidae	1(1)	0	0	1(1)	1	1.0
Incertae Sedis	0	1(-)	0	1(-)	-	-
TOTALS:	656(109)	669(117)	11(6)	1314(220)	79	5.97

*Facultative: Eleven species may occur in the zooxanthellate and azooxanthellate forms: three species of *Heterocyathus*, two species of *Heteropsammia*, two species of *Madracis, Astrangia poculata*, and three species of *Oculina*. These species are counted as both zooxanthellates and azooxanthellates, but only once in the total column. *Cladocora* also contains species, some of which are exclusively zooxanthellate, others exclusively azooxanthellate.

Monitoring Centre (WCMC, 1993), compiled by E. Wood for the purpose of listing all scleractinian species regulated by CITES (Convention on International Trade in Endangered Species of Wild Fauna and Flora). Although a worthy first attempt, this listing of 1040 species is considered to be flawed (uncritical) in that it used outdated taxonomy, occasionally included fossil species and genera, included some junior synonyms, and included some duplication of names. It also employed a confusing, three-tiered system of categorizing species, i.e., nominal, valid, and "well-established", and was far from complete regarding the azooxanthellate species.

The only other listing known to include all Recent scleractinian species was an unpublished draft (1995) of 1259 species submitted at the Sixth International Conference on Coelenterate Biology (ICCB VI) as part of a larger series included in the Unesco-IOC Register of Marine Organisms (ed. J. van der Land, 1995). It is that list, which is herein corrected and updated, that forms the basis for the 1314 species listed in the Appendix.

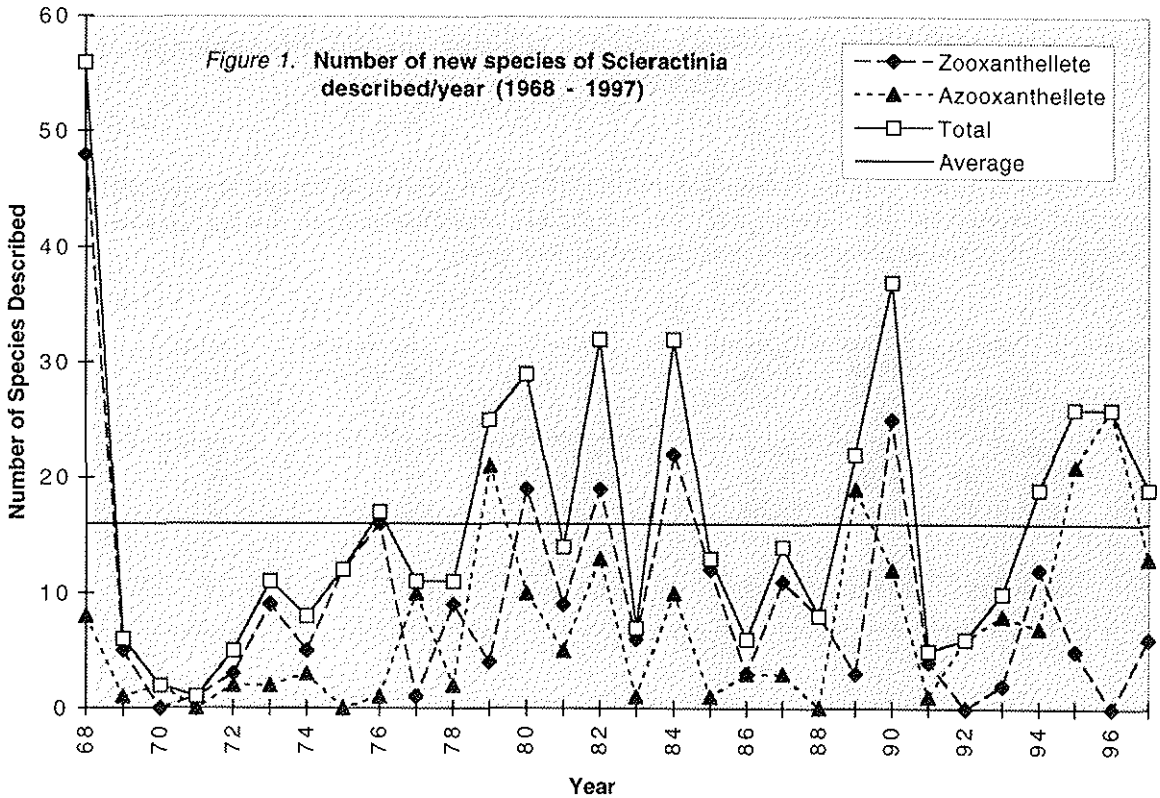
The Current Number

The current (end of 1998) number of 1314 valid, Recent scleractinian species (see Appendix), is summarized by family in Table 2. From this compilation one can see that there are 24 families of Recent Scleractinia, containing 220 genera, 79 (36%) of which are monotypic. Twelve families are exclusively zooxanthellate, 7 families are exclusively azooxanthellate, and 5 families contain genera having both ecological classes. In fact, eleven species and six genera are facultative, existing in both the zooxanthellate or azooxanthellate forms, depending on the environment (listed as a footnote to Table 2). The numbers of zooxanthellate and azooxanthellate species is virtually the same, 656 (49.5%) vs 669 (50.5%), respectively. Likewise, the number of genera is almost the same, with only a slight majority favoring the azooxanthellates at both taxonomic levels. There is an average of 5.97 and a range of 1-49.8 species per genus. Since Cairns (1997) calculated a similar species average of 5.37 for the exclusively azooxanthellate species, this ratio is approximately the same for both zooxanthellates and azooxanthellates.

It should be stated at this point that the species concept used in this paper is the morphospecies, or operational morphotaxonomic unit (sensu Veron, 1995), first formalized for scleractinian corals by Vaughan (1907: 4) as: "...a group of individuals connected among themselves by intergrading characters and separated by distinct lacunae from all other individuals or groups of individuals." Molecular, physiological, behavioral, and ecological evidence of species distinction (see Lang, 1984) were undoubtedly used to help construct the list of coral species, but these kind of data are not currently available for many species and not at all for fossil species, which makes the morphospecies most appropriate when comparing faunas within the fossil record. The "species problem" in corals is amply discussed by Veron (1995), including ramifications of reticulate evolution and the philosophy of conceptual vs operational species definitions. But, for the purposes of this paper, the traditional morphospecies is employed.

RATES OF NEW SPECIES DESCRIPTIONS

Over the last 30.5 years (1968 to mid-1998) the rate of description of new species of Scleractinia has been very uneven (Figure 1), reflecting the aperiodic publication of major faunistic revisions. (No judgment of the validity of these newly described species is made herein.) In this time interval, 490 species were described, or an average of 16.1 species per year. The uneveness of the yearly description totals is reflected in a range of 1-56 and a rather high standard deviation of 12.3. However, when viewed on a decadal scale (Table 3), some trends are apparent. Whereas the number of new species descriptions has seemed to reach a plateau over the last 20 years, the zooxanthellate:azooxanthellate components have altered dramatically. There appears to be a decline in both the number of newly described species and genera of zooxanthellate corals, which is replaced by an increase in the number of both genera and species of azooxanthellate corals. In fact, no new genera of zooxanthellate were described in the last decade, whereas 20 new azooxanthellate genera were described in the same time period. This change in rates of description might suggest that the more accessible, shallow-water zooxanthellate species are becoming fairly well known worldwide, especially at the generic level, whereas the primarily deep-water azooxanthellate fauna is less well known and thus might contribute more to the increase in described scleractinian species richness in the future.



ESTIMATES OF TOTAL SPECIES RICHNESS

Armed with these statistics on the known fauna, it is tempting to predict the total species richness of Scleractinia. One method of estimating global species richness in a taxon is the partial inventory method, which relies on the perceived ratio of described to undescribed species ascertained by a specialist in that group and/or by analysis of the literature. For instance, over the last 20 years the average percentage of previously undescribed azooxanthellate species in 14 faunistic studies from 12 regions (Cairns, 1979, 1982, 1984, 1989, 1991, 1994, 1995, 1998, 1999, in press a; Cairns & Parker, 1992; Cairns & Keller, 1993; Cairns & Zibrowius, 1997; Zibrowius, 1980) was 14.3% (range = 5.0-24.0%), or conversely 85.7% previously described. If this average described ratio is assumed to apply to the entire currently known azooxanthellate fauna (669 ÷ 0.857), one might expect there to be 781 azooxanthellate species worldwide. If similar logic is applied to zooxanthellate corals, a smaller ratio of 6.1% (range 0-18.2%) undescribed, or conversely, 93.9% previously described species results. This undescribed:described ratio is based on the following 15 publications covering six regions and two taxonomic revisions: eastern Australia (Veron et al., 1976-1984); western Australia (Veron, 1985; Veron & Marsh, 1988); Japan (Veron, 1990, 1992); Viet Nam (Latypov, 1990, 1992); Red Sea (Scheer & Pillai, 1983); Caribbean (Zlatarski, 1982); family Fungiidae (Hoeksema, 1989); and genus *Leptoseris* (Dinesen, 1980). This average described ratio applied to the known zooxanthellate fauna (656 ÷ 0.939), results in the prediction of 698 species. Together, the zooxanthellate and azooxanthellate estimates total 1479 (Table 1). To reiterate, the assumptions implicit in this estimation are: 1) 1314 currently known valid species, composed of 656 zooxanthellates and 669 azooxanthellates, and 2) a minimal undescribed component of 14.3% for azooxanthellates and 6.1% for zooxanthellates.

Table 3.–Decadal trends in rates of description of species (and genera) of Recent zooxanthellate and azooxanthellate Scleractinia. *Average for second decade corrected because Zoological Record volume 123 covered 1.5 years, making total period analyzed 30.5 years.

Zoological Record Volume	Years of Coverage	Zooxan-thellate	Azooxan-thellate	Total	Ave. Number Species/Year	Growth Rate (%)	Overall Rate
105-114	1968-77	100(6)	29(0)	129(6)	12.9	1.35	2.97
115-124	1978-87/88	114(9)	69(8)	183(17)	*17.1	1.53	3.52
125-134	1988-97/98	65(0)	113(20)	178(20)	17.8	1.35	3.25
TOTAL:	1968-97/98	279(15)	211(28)	490(43)	16.1	1.23	2.94

A second method of estimating diversity, developed by Hammond (1992), is based on an analysis of time series of species description rates. First, one calculates the current growth rate per annum of the taxon in question, i.e., the number of species described per year divided by the

total number of valid species. Using the average number of scleractinian species described per year over the last 30 years (16.1) and the current total number of scleractinian species, this equation is 16.1 ÷ 1314, or 1.23%, implying that over the last 30 years the number of scleractinian species increased by about 1.23%/year, although due to synonymy this percentage is certainly lower. Decadal rates are also given in Table 3. Secondly, Hammond calculates the ratio of the current rate ÷ overall rate, the overall rate being the average yearly rate of species descriptions since 1758. Again, using the average number of scleractinian species described per year over the last 30 years (16.1) and the overall rate of 1314 species ÷ 240 years (=1998-1758), yields the equation: 16.1 ÷ (1314÷240), or 2.94, implying that over the last 30 years corals have been described at 2.94 times the post-Linnaean "average rate." Decadal rates are also listed in Table 3. Hammond then compares these two ratios (the growth rate and current rate/overall rate) with the ratios derived for other animal groups (which for scleractinian corals is coincidentally the same as that for fish), and rather subjectively designates a value for "the proportion of species described to date." According to Hammond these two ratios are consistent with taxa having a "high" proportion of previously described species, i.e., 50-90%. Applying this percentage to 1314 species results in an estimation of 1460-2628 species (see Table 2). Assumptions implicit in this estimation are: 1) 1314 currently valid species, 2) all newly described species are valid, and 3) acceptance of implications of species growth rates and overall rates as intuited by Hammond (1992).

DISCUSSION

Methods for estimating global species richness of various taxa are highly controversial, often conflicting, and usually difficult to apply. Useful reviews on this topic include: May (1990), Hammond (1992, 1994), Stork (1993, 1997), and Colwell & Coddington (1994). Some of these methods rely on the principle of taxon ratios, wherein a reference site is chosen for which one element of the fauna is thought to be fairly well known (or at least well sampled), providing an estimate of the described:undescribed species ratio for that taxon for that site. This ratio is then applied to the currently known species richness of a larger area that includes the reference site (hierarchical taxon ratio) or a separate geographic area (non-hierarchical taxon ratio) to obtain estimates of species richness. The first method used in this paper, the "partial inventory method," falls into this category and is patterned, in large part, on a study by Hodkinson & Casson (1991), who attempted to determine global insect biodiversity using a hierarchical taxon ratio. After extensive sampling of Hemiptera in northern Sulawesi, Hodkinson & Casson determined that 62.5% of the collected species were undescribed. Then, making family-by-family comparisons of Sulawesi to world species, they showed that the same proportion of new species is likely to be found worldwide. Using these ratios and the currently known species richness of Hemiptera, they were able to provide a reasonable estimate of the worldwide Hemiptera species richness. Critics of this method (Stork, 1993, 1997; Hammond, 1994) point out that it is virtually impossible to claim that all species, whether insect or corals, are known from any reference site, regardless of the intensity of collection. This is a valid criticism, and for that reason the estimates that result from such studies should be considered as minimum estimates. A second criticism of this method is the assumption that the

described:undescribed ratio of one well sampled area is representative of the rest of the world. To ameliorate this criticism, I have chosen an average described:undescribed ratio from 18 regions and two taxonomic revisions, and furthermore established two different ratios, one for zooxanthellates and the other for azooxanthellates.

Hammond's method of using trends in description rate to predict global species diversity has been criticized by Erwin (1991) and Hammond (1992) himself, and is not a frequently used estimator for species richness. Rates of description depend on many factors, including one's species concept, the number of taxonomists working on a group at any period of time, and the technology used to investigate species. There also appears to be a bias to describe species of large body size and for which material is available, more commonly from temperate localities. Finally, Hammond's classification of the "proportion of species described to date" is extremely subjective (intuitive) and essentially undefined (unscientific). Also, the influence of new technology on known species richness is unpredictable. For instance, molecular analysis (allozymes) has suggested an increase in the number of *Montastraea* sibling species (Knowlton et al., 1992), whereas similar techniques have suggested a reduction in the number of recognized *Platygyra* species (Miller & Benzie, 1997); however, molecular data "have generally been found to support traditional morphological interpretations of species boundaries" (Wallace & Willis, 1994: 248; see also Willis, 1990). Synonymy of species is also a common result of more thorough morphological examination of larger suites of specimens from more diverse areas. Thus, the tendencies to increase the number of known species (e.g., discovery of sibling species) are often offset by the synonymy of species based on morphological and/or molecular methods. The overall effect is impossible to predict. Although Hammond's method is highly subjective and rarely used, it is one of the few methods available to predict total scleractinian species richness and does suggest, in my opinion, a reasonable range. On a purely intuitive basis, I would estimate the total number of scleractinian species to be about 2100, implying that we have described about 63% of the known fauna and that about 790 species remain to be described in this order.

CONCLUSIONS

What drives some people to want to know how many species exist on this planet or, more specifically, how many species occur in a particular taxon? The traditional answers are usually threefold (May, 1990; Stork, 1993). A knowledge of species richness: 1) helps establish a necessary first step to understand how biological systems work and provides a baseline that would allow for their conservation (ecology and conservation argument), 2) allows for the potential use of a greater variety of species for pharmaceutical products (utilitarian argument), and 3) satisfies the simple, unadulterated curiosity to know (quixotic argument). In addition to these traditional arguments, I would suggest that knowing the actual number of Recent scleractinian species is a valuable reference point for comparisons to late Tertiary faunas (one might call the Recent Benchmark or Paleontological Baseline argument). Hyman's (1940) conclusion that corals are "on the decline" because there are now only 2500 living species and 5000 extinct ones, is incorrect and misleading in many ways. First, there are far fewer than 2500

valid living species; it is absurd to compare taxa from the Recent to the entire Phanerozoic; comparing Mesozoic-Tertiary Scleractinia to Paleozoic Rugosa and Tabulata is illogical; and finally the total number of reef scleractinian corals appears to vacillate in time (Budd, in press) and is not a simple trend. And yet this ill-founded statement seems to have influenced two generations of textbook writers and even coral biologists (Table 1). According to Veron (1995: figs. 25, 36-38) and Scrutton (1997: fig. 2), Scleractinia stand at an all time maximum of generic diversity, but can the same be said at the species level? In very thorough studies of the Caribbean Neogene zooxanthellate Scleractinia, Budd, Stemann & Johnson (1994, Table 5) and Budd, Johnson & Stemann (1996) found 67-100% more species throughout the Late Miocene to Pliocene at 2 MY intervals than in the Recent, whereas Cairns (in press a, b) found considerably more Recent azooxanthellate species (131 species) than in the comparable Caribbean Neogene (49 species). Thus, whether the Caribbean zooxanthellates are on the decline and the azooxanthellates are on the increase, or whether the latter assumption is due to the artefact of "the pull of the Recent," it is essential to have an accurate baseline figure of Recent species richness to even begin these or similar speculations.

ACKNOWLEDGEMENTS

I would like to thank the following people who read earlier drafts of this manuscript and provided valuable advice and suggestions: Nancy Budd, Vladimir Kosmynin, Bert Hoeksema, and Timothy Werner. I also thank Peter Glynn for access to his advance list of reef corals from the eastern Pacific.

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Appendix: List of Extant Stony Corals

BY

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PREFACE

Within the five cnidarian orders that contain species having calcified skeletons (i.e., the "stony corals"), all valid, extant species are listed below in alphabetical order by family, genus, and species. Their general distribution is indicated to the right of each species by numbers: 1, western Atlantic; 2, eastern Atlantic; 3, Indian Ocean; 4, western and central Pacific; 5, eastern Pacific; and 6, Subantarctic and Antarctic regions. A question mark in a column indicates a questionable occurrence in this region. For the scleractinians, the azooxanthellate species are marked with an asterisk, the zooxanthellate are unmarked, and those 11 species that occur as both forms are marked with a cross (+).

This is believed to be the first complete and critical listing of all 1574 species of extant stony corals, consisting of 1314 scleractinians and 260 calcified hydrozoans. It is meant to complement a similar Internet version of the same list to be released as part of the UNESCO-IOC Register of Marine Organisms (ed., J. van der Land, National Museum of Natural History, Leiden), the first draft of which was compiled in 1995. Although every effort was made to make the list as complete and accurate as possible through 1998, we acknowledge that there are certainly errors of omissions and interpretation. We consider this as a first effort to establish a data base of all valid, extant species, and welcome any comments and corrections to the list. In general, the first author was responsible for the accuracy of the species included in the azooxanthellate Scleractinia, western Atlantic Scleractinia, and Stylasteridae, whereas the second author was responsible for the Indo-West Pacific zooxanthellate Scleractinia and calcified hydrozoans (Milleporidae). We acknowledge that there exist other calcified octocorallian cnidarians that are not listed herein, pertaining to the families: Tubiporidae, Helioporidae, Lithotelestidae, Coralliidae, and Isididae, as well as calcified hydrozoans of the genus *Pseudsolandaria*.

We believe the value of such a list to be manifold. It serves as a documentation of the species richness of larger taxa; it provides authorship and date of publication of all species; it provides a starting point for identification of corals from various geographic regions; it serves as

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a point of reference before a new species is described; and it may help to avoid homonymy in future described species, although one should be aware that fossil species are not listed in this account.

Phylum CNIDARIA
Class ANTHOZOA
Subclass HEXACORALLIA
Order SCLERACTINIA

	Distribution		
Acroporidae			
Acropora abrolhosensis Veron, 1985		3	4
Acropora aculeus (Dana, 1846)		3	4
Acropora acuminata (Verrill, 1864)		3	4
Acropora akajimensis Veron, 1990			4
Acropora anthocercis (Brook, 1893)		3	4
Acropora arabensis Hodgson & Carpenter, 1996		3	
Acropora aspera (Dana, 1846)		3	4
Acropora austera (Dana, 1846)		3	4
Acropora awi Wallace & Wolstenholme, 1998		3	4
Acropora azurea Veron & Wallace, 1984			4
Acropora batunai Wallace, 1997			4
Acropora branchi Riegl, 1995		3	
Acropora brueggemanni (Brook, 1893)		3	4
Acropora bushyensis Veron & Wallace, 1984		3	4
Acropora cardenae Wells, 1986			4
Acropora carduus (Dana, 1846)		3	4
Acropora caroliniana Nemenzo, 1976		3	4
Acropora cerealis (Dana, 1846)		3	4
Acropora cervicornis (Lamarck, 1816)	1		
Acropora chesterfieldensis Veron & Wallace, 1984			4
Acropora clathrata (Brook, 1891)		3	4
Acropora copiosa Nemenzo, 1967			4
Acropora crateriformis (Gardiner, 1898)			4
Acropora cuneata (Dana, 1846)		3	4
Acropora cytherea (Dana, 1846)		3	4
Acropora danai (Milne Edwards & Haime, 1860)		3	4
Acropora dendrum (Bassett-Smith,1890)		3	4
Acropora derawaensis Wallace, 1997			4
Acropora desalwii Wallace, 1994			4
Acropora digitifera (Dana, 1846)		3	4
Acropora divaricata (Dana, 1846)		3	4
Acropora donei Veron & Wallace, 1984		3	4
Acropora echinata (Dana, 1846)		3	4
Acropora elegans (M. Edwards & Haime, 1860)			4
Acropora elseyi (Brook, 1892)		3	4
Acropora eurystoma (Klunzinger, 1879)		3	
Acropora exquisita Nemenzo, 1971		3	4

Acropora florida (Dana, 1846)		3	4
Acropora formosa (Dana, 1846)		3	4
Acropora gemmifera (Brook, 1892)		3	4
Acropora glauca (Brook, 1893)		3	4
Acropora grandis (Brook, 1892)		3	4
Acropora granulosa (M. Edwards & Haime, 1860)		3	4
Acropora halmaherae Wallace & Wolstenholme, 1998			4
Acropora hemprichii (Ehrenberg, 1834)		3	4
Acropora hoeksemai Wallace, 1997		3	4
Acropora horrida (Dana, 1846)		3	4
Acropora humilis (Dana, 1846)		3	4
Acropora hyacinthus (Dana, 1846)		3	4
Acropora indiana Wallace, 1994		3	4
Acropora indonesia Wallace, 1997			4
Acropora insignis Nemenzo, 1967			4
Acropora intermedia (Brook, 1891)		3	4
Acropora jacquelinae Wallace, 1994		3	4
Acropora kirstyae Veron & Wallace, 1984			4
Acropora kosurini Wallace, 1994		3	
Acropora latistella (Brook, 1892)		3	4
Acropora listeri (Brook, 1893)		3	4
Acropora loisetteae Wallace, 1994		3	
Acropora lokani Wallace, 1994		3	4
Acropora longicyathus (Milne Edwards & Haime, 1860)		3	4
Acropora loripes (Brook, 1892)		3	4
Acropora lovelli Veron & Wallace, 1984		3	4
Acropora lutkeni Crossland, 1952		3	4
Acropora magnifica Nemenzo, 1971			4
Acropora microclados (Ehrenberg, 1834)		3	4
Acropora microphthalma (Verrill, 1869)		3	4
Acropora millepora (Ehrenberg, 1834)		3	4
Acropora mirabilis Quelch, 1886		3	4
Acropora monticulosa (Brueggemann, 1879)		3	4
Acropora mossambica Riegl, 1995		3	
Acropora multiacuta Nemenzo, 1967		3	4
Acropora nana (Studer, 1878)		3	4
Acropora nasuta (Dana, 1846)		3	4
Acropora natalensis Riegl, 1995		3	
Acropora nobilis (Dana, 1846)		3	4
Acropora ocellata (Klunzinger, 1879)		3	4
Acropora palifera (Lamarck, 1816)		3	4
Acropora palmata (Lamarck, 1816)	1		
Acropora palmerae Wells, 1954		3	4
Acropora paniculata Verrill, 1902		3	4
Acropora parilis Quelch, 1886			4
Acropora pharaonis (M. Edwards & Haime, 1860)		3	
Acropora plumosa Wallace & Wolstenholme, 1998			4
Acropora pocilloporina Wallace, 1994			4
Acropora polystoma (Brook, 1891)		3	4
Acropora prolifera (Lamarck, 1816)	1		
Acropora pruinosa (Brook, 1893)			4

Acropora pulchra (Brook, 1891)	3	4	
Acropora rambleri Bassett-Smith, 1890	3	4	
Acropora robusta (Dana, 1846)	3	4	
Acropora rosaria (Dana, 1846)	3	4	
Acropora rudis (Rehberg, 1892)		4	
Acropora russelli Wallace, 1994	3	4	
Acropora samoensis (Brook, 1891)	3	4	
Acropora sarmentosa (Brook, 1892)	3	4	
Acropora schmitti Wells, 1950	3	4	
Acropora secale (Studer, 1878)	3	4	
Acropora sekiseiensis Veron, 1990		4	
Acropora selago (Studer, 1878)	3	4	
Acropora simplex Wallace & Wolstenholme, 1998		4	
Acropora solitaryensis Veron & Wallace, 1984	3	4	
Acropora sordiensis Riegl, 1995	3		
Acropora spicifera (Dana, 1846)	3	4	
Acropora squarrosa (Ehrenberg, 1834)	3		
Acropora stoddarti Pillai & Scheer, 1976	3	4	
Acropora striata (Verrill, 1866)		4	
Acropora subglabra (Brook, 1891)	3	4	
Acropora subulata (Dana, 1846)	3	4	
Acropora suharsonoi Wallace, 1994	3		
Acropora sukarnoi Wallace, 1997	3		
Acropora tanegashimensis Veron, 1990		4	
Acropora tenella (Brook, 1892)		4	
Acropora tenuis (Dana, 1846)	3	4	
Acropora teres (Verrill, 1866)		4	
Acropora togianensis Wallace, 1997		4	
Acropora torihalimeda Wallace, 1994		4	
Acropora tortuosa (Dana, 1846)	3	4	
Acropora tumida Verrill, 1866		4	
Acropora turaki Wallace, 1994	3	4	
Acropora valenciennesi (M. Edwards & Haime, 1860)	3	4	
Acropora valida (Dana, 1846)	3	4	5
Acropora vaughani Wells, 1954	3	4	
Acropora verweyi Veron & Wallace, 1984	3	4	
Acropora wallacea Veron, 1990	3	4	
Acropora willisae Veron & Wallace, 1984	3	4	
Acropora yongei Veron & Wallace, 1984	3	4	
Anacropora forbesi Ridley, 1884	3	4	
Anacropora matthai Pillai, 1973	3	4	
Anacropora puertogalerae Nemenzo, 1964	3	4	
Anacropora reticulata Veron & Wallace, 1984	3	4	
Anacropora spinosa Rehberg, 1892	3	4	
Astreopora cucullata Lamberts, 1980	3	4	
Astreopora explanata Veron, 1985	3	4	
Astreopora gracilis Bernard, 1896	3	4	
Astreopora incrustans Bernard, 1896		4	
Astreopora lambertsi Moll & Best, 1984		4	
Astreopora listeri Bernard, 1896	3	4	
Astreopora macrostoma Veron & Wallace, 1984	3	4	

Astreopora moretonensis Veron & Wallace, 1984	3	4
Astreopora myriophthalma (Lamarck, 1816)	3	4
Astreopora ocellata Bernard, 1896	3	4
Astreopora suggesta Wells, 1954		4
Montipora aequituberculata Bernard, 1897	3	4
Montipora altasepta Nemenzo, 1964		4
Montipora angulata (Lamarck, 1816)	3	4
Montipora australiensis Bernard, 1897	3	4
Montipora cactus Bernard, 1897		4
Montipora calcarea Bernard, 1897	3	4
Montipora caliculata (Dana, 1846)	3	4
Montipora capitata Dana, 1846		4
Montipora capricornis Veron, 1985	3	4
Montipora cebuensis Nemenzo, 1976		4
Montipora circumvallata (Ehrenberg, 1834)	3	
Montipora confusa Nemenzo, 1967	3	4
Montipora corbettensis Veron & Wallace, 1984	3	4
Montipora crassituberculata Bernard, 1897	3	4
Montipora danae (M. Edwards & Haime, 1851)	3	4
Montipora digitata (Dana, 1846)	3	4
Montipora edwardsi Bernard, 1879	3	4
Montipora efflorescens Bernard, 1897	3	4
Montipora effusa Dana, 1846	3	4
Montipora florida Nemenzo, 1967	3	4
Montipora floweri Wells, 1954	3	4
Montipora foliosa (Pallas, 1766)	3	4
Montipora foveolata (Dana, 1846)	3	4
Montipora friabilis Bernard, 1897	3	4
Montipora gaimardi Bernard, 1897		4
Montipora granulosa Bernard, 1897	3	
Montipora grisea Bernard, 1897	3	4
Montipora hirsuta Nemenzo, 1967		4
Montipora hispida (Dana, 1846)	3	4
Montipora hoffmeisteri Wells, 1954	3	4
Montipora incrassata (Dana, 1846)	3	4
Montipora informis Bernard, 1897	3	4
Montipora lobulata Bernard, 1897	3	
Montipora mactanensis Nemenzo, 1979		4
Montipora malampaya Nemenzo, 1967		4
Montipora millepora Crossland, 1952	3	4
Montipora mollis Bernard, 1897	3	4
Montipora monasteriata (Forskål, 1775)	3	4
Montipora nodosa (Dana, 1846)	3	4
Montipora orientalis Nemenzo, 1967		4
Montipora peltiformis Bernard, 1897	3	4
Montipora samarensis Nemenzo, 1967		4
Montipora setosa Nemenzo, 1976		4
Montipora solanderi Bernard, 1879	3	
Montipora spongiosa (Ehrenberg, 1834)	3	4
Montipora spongodes Bernard, 1897	3	4
Montipora spumosa (Lamarck, 1816)	3	4

Montipora stellata Bernard, 1897		3	4	
Montipora stilosa (Ehrenberg, 1834)		3		
Montipora striata Bernard, 1897		3		
Montipora tuberculosa (Lamarck, 1816)		3	4	
Montipora turgescens Bernard, 1897		3	4	
Montipora turtlensis Veron & Wallace, 1984		3	4	
Montipora undata Bernard, 1897		3	4	
Montipora venosa (Ehrenberg, 1834)		3	4	
Montipora verrucosa (Lamarck, 1816)		3	4	

Agariciidae

Agaricia agaricites (Linnaeus, 1758)	1			
Agaricia fragilis Dana, 1846	1			
Agaricia grahamae Wells, 1973	1			
Agaricia humilis Verrill, 1902	1			
Agaricia lamarcki M. Edwards & Haime, 1851	1			
Agaricia tenuifolia Dana, 1846	1			
Agaricia undata (Ellis & Solander, 1786)	1			
Coeloseris mayeri Vaughan, 1918		3	4	
Gardineroseris planulata (Dana, 1846)		3	4	5
Helioseris cucullata (Ellis & Solander, 1786)	1			
Leptoseris amitoriensis Veron, 1990			4	
Leptoseris cailleti (Duchassaing & Michelotti, 1864)	1			
Leptoseris explanata Yabe & Sugiyama, 1941		3	4	
Leptoseris foliosa Dinesen, 1980		3	4	5
Leptoseris gardineri Van der Horst, 1921		3	4	
Leptoseris hawaiiensis Vaughan, 1907		3	4	
Leptoseris incrustans (Quelch, 1886)		3	4	
Leptoseris mycetoseroides Wells, 1954		3	4	
Leptoseris papyracea (Dana, 1846)		3	4	5
Leptoseris scabra Vaughan, 1907		3	4	5
Leptoseris solida (Quelch, 1886)		3	4	
Leptoseris tenuis Van der Horst, 1921		3	4	
Leptoseris tubulifera Vaughan, 1907			4	
Leptoseris yabei (Pillai & Scheer, 1976)		3	4	
Pachyseris foliosa Veron, 1990			4	
Pachyseris gemmae Nemenzo, 1955		3	4	
Pachyseris rugosa (Lamarck, 1801)		3	4	
Pachyseris speciosa (Dana, 1846)		3	4	
Pavona bipartita Nemenzo, 1980			4	
Pavona cactus (Forskål, 1775)		3	4	
Pavona clavus (Dana, 1846)		3	4	5
Pavona danai (M. Edwards & Haime, 1816)		3	4	
Pavona decussata (Dana, 1846)		3	4	
Pavona diffluens Lamarck, 1816		3	4	
Pavona divaricata Lamarck, 1816		3	4	
Pavona duerdeni Vaughan, 1907		3		
Pavona explanulata (Lamarck, 1816)		3	4	
Pavona frondifera Lamarck, 1816		3	4	5
Pavona gigantea Verrill, 1869		3	4	5
Pavona lata Dana, 1846		3	4	

Pavona maldivensis (Gardiner, 1905)			3	4	5	
Pavona minuta Wells, 1954			3	4	5	
Pavona varians Verrill, 1864			3	4	5	
Pavona venosa (Ehrenberg, 1834)			3	4		
Pavona xarifae Scheer & Pillai, 1974			3	4	5	
Anthemiphylliidae						
*Anthemiphyllia dentata (Alcock,1902)			3	4		
*Anthemiphyllia frustum Cairns, 1994				4		
*Anthemiphyllia macrolobata Cairns, 1998				4		
*Anthemiphyllia multidentata Cairns, 1998				4		
*Anthemiphyllia pacifica Vaughan, 1907				4		
*Anthemiphyllia patera patera De Pourtalès, 1878	1					
*A. patera costata Cairns, 1999				4		
*Anthemiphyllia spinifera Cairns, 1999				4		
Astrocoeniidae						
Stephanocoenia intersepta (Lamarck, 1816)	1					
Stylocoeniella armata Ehrenberg, 1834			3	4		
Stylocoeniella cocosensis Veron, 1990			3	4		
Stylocoeniella guentheri Bassett-Smith, 1890			3	4		
Caryophylliidae						
*Anomocora carinata Cairns, 1991					5	
*Anomocora fecunda (De Pourtalès, 1871)	1	2				
*Asterosmilia gigas (van der Horst, 1931)			3	4		
*Asterosmilia marchadi (Chevalier, 1966)	1	2	3	4		
*Asterosmilia prolifera (De Pourtalès, 1871)	1	2				
*Aulocyathus atlanticus Zibrowius, 1980		2				
*Aulocyathus juvenescens Marenzeller, 1904			3	4		
*Aulocyathus matricidus (Kent, 1871)				4		
*Aulocyathus recidivus (Dennant, 1906)			3	4		6
*Bathycyathus chilensis M. Edwards & Haime, 1848					5	
*Bourneotrochus stellulatus (Cairns, 1984)				4		
*Caryophyllia abrupta Cairns, 1999				4		
*Caryophyllia abyssorum Duncan, 1873		2				
*Caryophyllia alaskensis Vaughan, 1941				4	5	
*Caryophyllia alberti Zibrowius, 1980		2				
*Caryophyllia ambrosia ambrosia Alcock, 1898	1	2	3	4		
*C. ambrosia caribbeana Cairns, 1979	1					
*Caryophyllia antarctica Marenzeller, 1904						6
*Caryophyllia antillarum De Pourtalès, 1874	1					
*Caryophyllia arnoldi Vaughan, 1900					5	
*Caryophyllia atlantica (Duncan, 1873)		2	3	4	5	
*Caryophyllia balanacea Zibrowius & Gili, 1990		2				
*Caryophyllia barbadensis Cairns, 1979	1					
*Caryophyllia berteriana Duchassaing, 1850	1					
*Caryophyllia calveri Duncan, 1873		2		?		
*Caryophyllia capensis Gardiner, 1904			3			
*Caryophyllia cincticulatus (Alcock, 1898)			3			

*Caryophyllia cornulum Cairns & Zibrowius, 1997				4		
*Caryophyllia corrugata Cairns, 1979	1					
*Caryophyllia crosnieri Cairns & Zibrowius, 1997			3	4		
*Caryophyllia cyathus (Ellis & Solander, 1786)		2				
*Caryophyllia decamera Cairns, 1998			3	4		
*Caryophyllia dentata Moseley, 1876				4		
*Caryophyllia diomedeae Marenzeller, 1904			3	4	5	
*Caryophyllia eltaninae Cairns, 1982						6
*Caryophyllia ephyala Alcock, 1891			3			
*Caryophyllia foresti Zibrowius, 1980		2				
*Caryophyllia grandis Gardiner & Waugh, 1938			3	4		
*Caryophyllia grayi (M. Edwards & Haime, 1848)			3	4		
*Caryophyllia hawaiiensis Vaughan, 1907				4		
*Caryophyllia horologium Cairns, 1977	1					
*Caryophyllia inornata (Duncan, 1878)		2				
*Caryophyllia japonica Marenzeller, 1888				4		
*Caryophyllia jogashimaensis Eguchi, 1968				4		
*Caryophyllia karubarica Cairns & Zibrowius, 1997				4		
*Caryophyllia lamellifera Moseley, 1881				4		
*Caryophyllia mabahithi Gardiner & Waugh, 1938			3			6
*Caryophyllia marmorea Cairns, 1984				4		
*Caryophyllia octonaria Cairns & Zibrowius, 1997				4		
*Caryophyllia octopali Vaughan, 1907				4		
*Caryophyllia paradoxus Alcock, 1898			3			
*Caryophyllia paucipalata Moseley, 1881	1					
*Caryophyllia pauciseptata Yabe & Eguchi, 1932				4		
*Caryophyllia perculta Cairns, 1991					5	
*Caryophyllia planilamellata Dennant, 1906			3	4		
*Caryophyllia polygona De Pourtalès, 1878	1					
*Caryophyllia profunda Moseley, 1881		2	3	4		6
*Caryophyllia quadragenaria Alcock, 1902				4		
*Caryophyllia quangdongensis Zou, 1984				4		
*Caryophyllia ralphae Cairns, 1995				4		
*Caryophyllia rugosa Moseley, 1881			3	4		
*Caryophyllia sarsiae Zibrowius 1974	1	2				
*Caryophyllia scillaemorpha Alcock, 1894			3			
*Caryophyllia scobinosa Alcock, 1902			3	4		
*Caryophyllia secta Cairns & Zibrowius, 1997				4		
*Caryophyllia seguenzae Duncan, 1873		2				
*Caryophyllia smithii Stokes & Broderip, 1828		2				
*Caryophyllia solida Cairns, 1991					5	
*Caryophyllia spinicarens (Moseley, 1881)				4		
*Caryophyllia spinigera Saville Kent, 1871				4		
*Caryophyllia squiresi Cairns, 1982						6
*Caryophyllia stellula Cairns, 1998			3			
*Caryophyllia transversalis Moseley, 1881			3	4		
*Caryophyllia unicristata Cairns & Zibrowius, 1997			3	4		
*Caryophyllia valdiviae Zibrowius & Gili, 1990		2				
*Caryophyllia zanzibarensis Zou, 1984			3			
*Caryophyllia zopyros Cairns, 1979	1					
Catalaphyllia jardinei (Saville-Kent, 1893)			3	4		

*Ceratotrochus franciscana Durham & Barnard, 1952					5	
*Ceratotrochus magnaghii Cecchini, 1914		2				
Cladocora arbuscula Lesueur, 1881	1					
Cladocora caespitosa (Linnaeus, 1758)		2				
*Cladocora debilis M. Edwards & Haime, 1849	1	2				
*Cladocora pacifica Cairns, 1991					5	
*Coenocyathus anthophyllites M. Edwards & Haime, 1848		2				
*Coenocyathus bowersi Vaughan, 1906					5	
*Coenocyathus brooki Cairns, 1995				4		
*Coenocyathus cylindricus M. Edwards & Haime, 1848		2				
*Coenocyathus goreaui Wells, 1972	1					
*Coenocyathus parvulus (Cairns, 1979)	1					
*Coenosmilia arbuscula De Pourtalès, 1874	1	2		?		
*Coenosmilia inordinata Cairns, 1984				4		
*Colangia immersa De Pourtalès, 1871	1					
*Colangia moseleyi (Faustino, 1927)				4		
*Concentrotheca laevigata (De Pourtalès, 1871)	1	2				
*Concentrotheca vaughani Cairns, 1991					5	
*Confluphyllia juncta Cairns & Zibrowius, 1997				4		
*Conotrochus asymmetros Cairns, 1999				4		
*Conotrochus brunneus (Moseley, 1881)			3	4		
*Conotrochus funicolumna (Alcock, 1902)			3	4		
*Crispatotrochus cornu (Moseley, 1881)	?			4		
*Crispatotrochus curvatus Cairns, 1995				4		
*Crispatotrochus foxi (Durham & Barnard, 1952)					5	
*Crispatotrochus galapagensis Cairns, 1991					5	
*Crispatotrochus inornatus Tenison-Woods, 1878			3	4		
*Crispatotrochus irregularis (Cairns, 1982)						6
*Crispatotrochus niinoi (Yabe & Eguchi, 1942)				4		
*Crispatotrochus rubescens (Moseley, 1881)				4		
*Crispatotrochus rugosus Cairns, 1995			3	4		
*Crispatotrochus squiresi (Cairns, 1979)	1					
*Crispatotrochus woodsi (Wells, 1964)				4		
*Dactylotrochus cervicornis (Moseley, 1881)				4		
*Dasmosmilia lymani (De Pourtalès, 1871)	1	2		4		
*Dasmosmilia valida (Marenzeller, 1907)			3			
*Dasmosmilia variegata (De Pourtalès, 1871)	1	2	3			
*Deltocyathus agassizi De Pourtalès, 1867	1					
*Deltocyathus andamanicus Alcock, 1898			3	4		
*Deltocyathus calcar De Pourtalès, 1874	1					
*Deltocyathus cameratus Cairns, 1999				4		
*Deltocyathus corrugatus Cairns, 1999				4		
*Deltocyathus crassiseptum Cairns, 1999				4		
*Deltocyathus eccentricus Cairns, 1979	1	2				
*Deltocyathus halianthus (Lindström, 1877)	1					
*Deltocyathus heteroclitus Wells, 1984				4		
*Deltocyathus italicus (Michelotti, 1838)	1	2				
*Deltocyathus magnificus Moseley, 1876			3	4		
*Deltocyathus moseleyi Cairns, 1979	1	2				
*Deltocyathus murrayi Gardiner & Waugh, 1938			3			
*Deltocyathus ornatus Gardiner, 1899				4		

*Deltocyathus parvulus Keller, 1982				4		
*Deltocyathus philippinensis Cairns & Zibrowius, 1997				4		
*Deltocyathus pourtalesi Cairns, 1979	1					
*Deltocyathus rotulus (Alcock, 1898)			3	4		
*Deltocyathus sarsi (Gardiner & Waugh, 1938)			3			
*Deltocyathus stella Cairns & Zibrowius, 1997				4		
*Deltocyathus suluensis Alcock, 1902			3	4		
*Deltocyathus taiwanicus Hu, 1987				4		
*Deltocyathus varians Gardiner & Waugh, 1938			3			
*Deltocyathus vaughani Yabe & Eguchi, 1932				4		
*Desmophyllum dianthus (Esper, 1794)	1	2	3	4	5	6
*Desmophyllum striatum Cairns, 1979	1					
*Ericiocyathus echinatus Cairns & Zibrowius, 1997				4		
Euphyllia ancora Veron & Pichon, 1979			3	4		
Euphyllia cristata Chevalier, 1971			3	4		
Euphyllia divisa Veron & Pichon, 1979			3	4		
Euphyllia fimbriata (Spengler, 1799)			3	4		
Euphyllia glabrescens (Chamisso & Eysenhardt, 1821)			3	4		
Euphyllia paradivisa Veron, 1990				4		
Euphyllia paraencora Veron, 1990			3	4		
Euphyllia paraglabrescens Veron, 1990				4		
Euphyllia yaeyamaensis (Shirai, 1980)			3	4		
Eusmilia fastigiata (Pallas, 1766)	1					
*Goniocorella dumosa (Alcock, 1902)			3	4	5	6
Gyrosmilia interrupta (Ehrenberg, 1834)			3			
+Heterocyathus aequicostatus M. Edwards & Haime, 1848			3	4		
+Heterocyathus alternatus Verrill, 1865			3	4		
*Heterocyathus hemisphericus Gray 1849			3	?		
+Heterocyathus sulcatus (Verrill, 1866)			3	4		
*Hoplangia durotrix Gosse, 1860		2		4		
*Labyrinthocyathus delicatus (Marenzeller, 1904)			3			
*Labyrinthocyathus facetus Cairns, 1979	1					
*Labyrinthocyathus langae Cairns, 1979	1					
*Labyrinthocyathus limatulus (Squires, 1964)				4		
*Labyrinthocyathus quaylei (Durham, 1947)					5	
*Lochmaeotrochus gardineri Cairns, 1999				4		
*Lochmaeotrochus oculeus Alcock, 1902				4		
*Lophelia pertusa (Linnaeus, 1758)	1	2	3	4	5	6
Montigyra kenti Matthai, 1928			3			
Nemenzophyllia turbida Hodgson & Ross, 1981			3	4		
*Nomlandia californica Durham & Barnard, 1952					5	
*Oxysmilia circularis Cairns, 1998			3	4		
*Oxysmilia corrugata Cairns, 1999				4		
*Oxysmilia epithecata Cairns, 1999				4		
*Oxysmilia rotundifolia (M. Edwards & Haime, 1848)	1					
*Paraconotrochus antarctica (Gardiner, 1929)						6
*Paraconotrochus capense (Gardiner, 1904)		2				
*Paraconotrochus zeidleri Cairns & Parker, 1992			3	4		
*Paracyathus anderssoni Duncan, 1899			3			
*Paracyathus arcuatus Lindström, 1877		2				
*Paracyathus cavatus Alcock, 1893			3			

*Paracyathus conceptus Gardiner & Waugh, 1938			3		
*Paracyathus ebonensis Verrill, 1866				4	
*Paracyathus fulvus Alcock, 1893			3	4	
*Paracyathus humilis Verrill, 1870					5
*Paracyathus indicus indicus Duncan, 1889			3		
*P. indicus gracilis Alcock, 1893			3		
*Paracyathus lifuensis Gardiner, 1899				4	
*Paracyathus molokensis Vaughan, 1907				4	
*Paracyathus montereyensis Durham, 1947					5
*Paracyathus parvulus Gardiner, 1899				4	
*Paracyathus porcellanus Verrill, 1866				4	
*Paracyathus profundus Alcock, 1893			3		
*Paracyathus pruinosus Alcock, 1902				4	
*Paracyathus pulchellus (Philippi, 1842)	1	2			
*Paracyathus rotundatus Semper, 1872			3	4	
*Paracyathus stearnsii Verrill, 1869					5
*Paracyathus stokesii M. Edwards & Haime, 1848			3		
*Paracyathus vittatus Dennant, 1906			3		
*Phacelocyathus flos (De Pourtalès, 1878)	1				
*Phyllangia americana americana M. Edwards & Haime, 1849	1				
*P. americana mouchezii (Lacaze-Duthiers, 1897)		2			
*Phyllangia consagensis (Durham & Barnard, 1952)					5
*Phyllangia dispersa Verrill, 1864					5
*Phyllangia echinosepes Ogawa, Takahashi & Sakai, 1997				4	
*Phyllangia granulata Koch, 1886		2			
*Phyllangia hayamaensis (Eguchi, 1968)				4	
*Phyllangia mouchezii (Lacaze-Duthiers, 1897)		2			
*Phyllangia papuensis Studer, 1878			3	4	
Physogyra exerta Nemenzo & Ferraris, 1982			3	4	
Physogyra lichtensteini (M. Edwards & Haime, 1851)			3	4	
Plerogyra eyrysepta Nemenzo, 1960				4	
Plerogyra simplex Rehberg, 1892			3	4	
Plerogyra sinuosa (Dana, 1846)			3	4	
Plerogyra turbida (Hodgson & Ross, 1981)				4	
*Polycyathus andamanicus Alcock, 1893			3		
*Polycyathus atlanticus Duncan, 1876		2			
*Polycyathus difficilis Duncan, 1876			3		
*Polycyathus fulvus Wijsman-Best, 1970				4	
*Polycyathus furanaensis Verheij & Best, 1987			3	4	
*Polycyathus fuscomarginatus (Klunzinger, 1879)			3		
*Polycyathus hodgsoni Verheij & Best, 1987			3	4	
*Polycyathus hondaensis (Durham & Barnard, 1952)					5
*Polycyathus isabela Wells, 1982					5
*Polycyathus marigondoni Verheij & Best, 1987				4	
*Polycyathus muellerae (Abel, 1959)		2			
*Polycyathus norfolkensis Cairns, 1995				4	
*Polycyathus octuplus Cairns, 1999				4	
*Polycyathus palifera (Verrill, 1869)			3		
*Polycyathus persicus (Duncan, 1876)			3		
*Polycyathus senegalensis Chevalier, 1966	1	2			
*Polycyathus verrilli Duncan, 1889			3		

*Pourtalosmilia anthophyllites (Ellis & Solander, 1786)		2			
*Pourtalosmilia conferta Cairns, 1978	1				
*Premocyathus cornuformis (De Pourtalès, 1868)	1	2	?		
*Premocyathus dentiformis (Alcock, 1902)	1			4	
*Rhizosmilia gerdae Cairns, 1978	1				
*Rhizosmilia elata Cairns & Zibrowius, 1997				4	
*Rhizosmilia maculata (De Pourtalès, 1874)	1				
*Rhizosmilia multipaliferus Cairns, 1998			3		
*Rhizosmilia robusta Cairns in Cairns & Keller, 1993			3	4	
*Rhizosmilia sagamiensis (Eguchi, 1968)				4	
*Solenosmilia variabilis Duncan, 1873	1	2	3	4	6
*Stephanocyathus campaniformis (Marenzeller, 1904)		2	3		
*Stephanocyathus coronatus (De Pourtalès, 1867)	1			4	
*Stephanocyathus crassus (Jourdan, 1895)		2			
*Stephanocyathus diadema (Moseley, 1876)	1				
*Stephanocyathus explanans (Marenzeller, 1904)			3	4	
*Stephanocyathus laevifundus Cairns, 1977	1				
*Stephanocyathus moseleyanus (Sclater, 1886)		2			
*Stephanocyathus nobilis (Moseley, 1873)	1	2	3		
*Stephanocyathus paliferus Cairns, 1977	1				
*Stephanocyathus platypus (Moseley, 1876)			3	4	
*Stephanocyathus regius Cairns & Zibrowius, 1997				4	
*Stephanocyathus spiniger (Marenzeller, 1888)			3	4	
*Stephanocyathus weberianus Alcock, 1902				4	
*Sympodangia albatrossi Cairns & Zibrowius, 1997				4	
*Tethocyathus cylindraceus (De Pourtalès, 1868)	1			4	
*Tethocyathus minor (Gardiner, 1899)				4	
*Tethocyathus recurvatus (De Pourtalès, 1878)	1				
*Tethocyathus variabilis Cairns, 1979	1	2			
*Tethocyathus virgatus (Alcock, 1902)				4	
*Thalamophyllia gasti (Doderlein, 1913)		2			
*Thalamophyllia gombergi Cairns, 1979	1				
*Thalamophyllia riisei (Duchassaing & Michelotti, 1864)	1				
*Thalamophyllia tenuescens (Gardiner, 1899)			3	4	
*Trochocyathus aithoseptatus Cairns, 1984				4	
*Trochocyathus apertus Cairns & Zibrowius, 1997			3	4	
*Trochocyathus brevispina Cairns & Zibrowius, 1997				4	
*Trochocyathus burchae (Cairns, 1984)				4	
*Trochocyathus caryophylloides Alcock, 1902				4	
*Trochocyathus cepulla Cairns, 1995				4	
*Trochocyathus cinticulatus (Alcock, 1898)			3		
*Trochocyathus cooperi (Gardiner, 1905)			3	4	
*Trochocyathus decamera Cairns, 1994				4	
*Trochocyathus discus Cairns & Zibrowius, 1997				4	
*Trochocyathus efateensis Cairns, 1999				4	
*Trochocyathus faciatus Cairns, 1979	1				
*Trochocyathus fossulus Cairns, 1979	1				
*Trochocyathus gardineri (Vaughan, 1907)				4	
*Trochocyathus gordoni Cairns, 1995				4	
*Trochocyathus hastatus Bourne, 1903				4	
*Trochocyathus japonicus Eguchi, 1968				4	

*Trochocyathus longispina Cairns & Zibrowius, 1997				4	
*Trochocyathus maculatus Cairns, 1995				4	
*Trochocyathus mauiensis Vaughan, 1907				4	
*Trochocyathus mediterraneus Zibrowius, 1980		2			
*Trochocyathus oahensis Vaughan, 1907				4	
*Trochocyathus patelliformis Cairns, 1999				4	
*Trochocyathus philippinensis Semper, 1872				4	
*Trochocyathus porphyreus (Alcock, 1893)			3		
*Trochocyathus rawsonii De Pourtalès, 1874	1		?		
*Trochocyathus rhombocolumna Alcock, 1902			3	4	
*Trochocyathus semperi Cairns & Zibrowius, 1997				4	
*Trochocyathus spinosocostatus Zibrowius, 1980		2			
*Trochocyathus vasiformis Bourne, 1903				4	
*Vaughanella concinna Gravier, 1915		2		4	
*Vaughanella margaritata (Jourdan, 1895)	1				
*Vaughanella multipalifera Cairns, 1995				4	
*Vaughanella oreophila Keller, 1981				4	

Dendrophylliidae

*Astroides calycularis (Pallas, 1766)		2			
*Balanophyllia bairdiana M. Edwards & Haime, 1848			?	4	
*Balanophyllia bayeri Cairns, 1979	1				
*Balanophyllia bonaespei van der Horst, 1938			3		
*Balanophyllia buccina Tenison-Woods, 1878				4	
*Balanophyllia capensis Verrill, 1865			3		
*Balanophyllia caribbeana Cairns, 1977	1				
*Balanophyllia carinata (Semper, 1872)			3	4	
*Balanophyllia cedrosensis Durham, 1947					5
*Balanophyllia cellulosa Duncan, 1873		2			
*Balanophyllia chnous Squires, 1962				4	
*Balanophyllia corniculans Alcock, 1902				4	
*Balanophyllia cornu Moseley, 1881			3	4	
*Balanophyllia crassiseptum Cairns & Zibrowius, 1997				4	
*Balanophyllia crassitheca Cairns, 1995				4	
*Balanophyllia cumingii M. Edwards & Haime, 1848				4	
*Balanophyllia cyathoides (De Pourtalès, 1871)	1				
*Balanophyllia dentata Tenison-Woods, 1879				4	
*Balanophyllia desmophyllioides Vaughan, 1907				4	
*Balanophyllia diademata van der Horst, 1927			3		
*Balanophyllia diffusa Harrison & Poole, 1909			3		
*Balanophyllia dineta Cairns, 1977	1				
*Balanophyllia diomedeae Vaughan, 1907				4	
*Balanophyllia dubia (Semper, 1872)				4	
*Balanophyllia elegans Verrill, 1864					5
*Balanophyllia elliptica (Tenison-Woods, 1878)				4	
*Balanophyllia elongata (Moseley, 1881)				4	
*Balanophyllia europaea (Risso, 1826)		2			
*Balanophyllia floridana De Pourtalès, 1868	1	2			
*Balanophyllia galapagensis Vaughan, 1907					5
*Balanophyllia gemma (Moseley, 1881)				4	
*Balanophyllia gemmifera Klunzinger, 1879			3		

*Balanophyllia generatrix Cairns & Zibrowius, 1997			3	4	
*Balanophyllia gigas Moseley, 1881			3	4	
*Balanophyllia hadros Cairns, 1979	1				
*Balanophyllia imperialis Kent, 1871			3	4	
*Balanophyllia iwayamaensis Abe, 1938				4	
*Balanophyllia laysanensis Vaughan, 1907				4	
*Balanophyllia malouiensis Squires, 1961					6
*Balanophyllia palifera De Pourtalès, 1878	1				
*Balanophyllia parallela (Semper, 1872)				4	
*Balanophyllia parvula Moseley, 1881				4	
*Balanophyllia pittieri Vaughan, 1919	1				
*Balanophyllia ponderosa van der Horst, 1926			3	4	
*Balanophyllia profundicella Gardiner, 1899				4	
*Balanophyllia rediviva Moseley, 1881				4	
*Balanophyllia regalis Alcock, 1893			3		
*Balanophyllia regia Gosse, 1860		2			
*Balanophyllia scabra Alcock, 1893			3		
*Balanophyllia serrata Cairns & Zibrowius, 1997				4	
*Balanophyllia stimpsonii Verrill, 1865			3	4	
*Balanophyllia tenuis van der Horst, 1922				4	
*Balanophyllia teres Cairns, 1994				4	
*Balanophyllia thalassae Zibrowius, 1980		2			
*Balanophyllia troprobanae Bourne, 1905			3		
*Balanophyllia wellsi Cairns, 1977	1				
*Balanophyllia yongei Crossland, 1952				4	
*Bathypsammia falloscoialis Squires, 1959	1				
*Bathypsammia tintinnabulum (De Pourtalès, 1868)	1				
*Cladopsammia echinata Cairns, 1984				4	
*Cladopsammia eguchii (Wells, 1982)				4	5
*Cladopsammia gracilis (M. Edwards & Haime, 1848)				4	5
*Cladopsammia manuelensis (Chevalier, 1966)	1	2			
*Cladopsammia rolandi Lacaze-Duthiers, 1897		2			
*Cladopsammia willeyi (Gardiner, 1900)				4	
*Dendrophyllia aculeata Latypov, 1990				4	
*Dendrophyllia alcocki (Wells, 1954)			3	4	
*Dendrophyllia alternata De Pourtalès, 1880	1	2			
*Dendrophyllia arbuscula van der Horst, 1922			3	4	
*Dendrophyllia boschmai boschmai van der Horst, 1926			3	4	
*D. boschmai cyathelioides Yabe & Eguchi, 1965				4	
*Dendrophyllia californica Durham, 1947					5
*Dendrophyllia cladonia van der Horst, 1927			3		
*Dendrophyllia cornigera (Lamarck, 1816)		2			
*Dendrophyllia cribrosa M. Edwards & Haime, 1851		?		4	
*Dendrophyllia dilatata van der Horst, 1927			3		
*Dendrophyllia florulenta Alcock, 1902				4	
*Dendrophyllia ijimai Yabe & Eguchi, 1934			3	4	
*Dendrophyllia incisa (Crossland, 1952)				4	
*Dendrophyllia indica Pillai, 1967			3		
*Dendrophyllia johnsoni Cairns, 1991					5
*Dendrophyllia laboreli Zibrowius & Brito, 1984		2			
*Dendrophyllia minuscula Bourne, 1905			3		

*Dendrophyllia oldroydae Oldroyd, 1924					5	
*Dendrophyllia ramea (Linnaeus, 1758)		2				
*Dendrophyllia robusta (Bourne, 1905)			3			
*Dendrophyllia velata Crossland, 1952				4		
*Dichopsammia granulosa Song, 1994				4		
Duncanopsammia axifuga (M. Edwards & Haime, 1848)			3	4		
*Eguchipsammia cornucopia (De Pourtalès, 1871)	1	2				
*Eguchipsammia fistula (Alcock, 1902)			3	4		
*Eguchipsammia gaditana (Duncan, 1873)	1	2	3	4		
*Eguchipsammia japonica (Rehberg, 1892)				4		
*Eguchipsammia serpentina (Vaughan, 1907)				4		
*Eguchipsammia wellsi (Eguchi, 1968)				4		
*Enallopsammia profunda (De Pourtalès, 1867)	1					
*Enallopsammia pusilla (Alcock, 1902)			3	4		
*Enallopsammia rostrata (De Pourtalès, 1878)	1	2	3	4	5	6
*Endopachys bulbosa Cairns & Zibrowius, 1997			3	4		
*Endopachys grayi M. Edwards & Haime, 1848			3	4	5	
*Endopsammia philippensis M. Edwards & Haime, 1848				4		
*Endopsammia pourtalesi (Durham & Barnard, 1952)					5	
*Endopsammia regularis (Gardiner, 1899)				4		
+Heteropsammia cochlea (Spengler, 1781)			3	4		
+Heteropsammia eupsammides (Gray, 1849)			3	4		
*Leptopsammia britannica (Duncan, 1870)		2				
*Leptopsammia chevalieri Zibrowius, 1980		2				
*Leptopsammia columna Folkeson, 1919			3			
*Leptopsammia crassa van der Horst, 1922				4		
*Leptopsammia formosa (Gravier, 1915)		2				
*Leptopsammia poculum (Alcock, 1902)				4		
*Leptopsammia pruvoti Lacaze-Duthiers, 1897		2				
*Leptopsammia queenslandiae Wells, 1964				4		
*Leptopsammia stokesiana M. Edwards & Haime, 1848				4		
*Leptopsammia trinitatis Hubbard & Wells, 1987	1					
*Notophyllia etheridgi Hoffmeister, 1933			3	4		
*Notophyllia piscacauda Cairns, 1998			3			
*Notophyllia recta Dennant, 1906			3	4		
*Rhizopsammia annae (Van der Horst, 1933)			3			
*Rhizopsammia bermudensis Wells, 1972	1					
*Rhizopsammia compacta Sheppard & Sheppard, 1991			3			
*Rhizopsammia goesi (Lindström, 1877)	1					
*Rhizopsammia minuta van der Horst, 1922				4		
*Rhizopsammia nuda van der Horst, 1926			3	4		
*Rhizopsammia pulchra Verrill, 1870					5	
*Rhizopsammia verrilli Van der Horst, 1922			3	4	5	
*Rhizopsammia wellingtoni Wells, 1982					5	
*Rhizopsammia wettsteini Scheer & Pillai, 1983			3			
*Thecopsammia socialis De Pourtalès, 1868	1					
*Trochopsammia infundibulum De Pourtalès, 1878	1					
*Trochopsammia togata (Van der Horst, 1927)			3			
*Tubastraea coccinea Lesson, 1829	1	2	3	4	5	
*Tubastraea diaphana (Dana, 1846)			3	4		
*Tubastraea faulkneri Wells, 1982				4	5	

Montastraea valenciennesi (M. Edwards & Haime, 1848)			3	4		
Moseleya latistellata Quelch, 1884			3	4		
Oulastrea crispata (Lamarck, 1816)			3	4		
Oulophyllia bennettae (Veron, Pichon & Best, 1977)			3	4		
Oulophyllia crispa (Lamarck, 1816)			3	4		
Parasimplastrea simplicitexta (Umbgrove, 1939)			3			
Platygyra contorta Veron, 1990				4		
Platygyra crosslandi (Matthai,1928)			3	4		
Platygyra daedalea (Ellis & Solander, 1786)			3	4		
Platygyra lamellina (Ehrenberg, 1834)			3	4		
Platygyra pini Chevalier, 1975			3	4		
Platygyra ryukyuensis Yabe & Sugiyama, 1935			3	4		
Platygyra sinensis (M. Edwards & Haime, 1849)			3	4		
Platygyra verweyi Wijsman-Best, 1976			3	4		
Platygyra yaeyamaensis (Eguchi & Shirai, 1977)				4		
Plesiastrea versipora (Lamarck, 1816)			3	4		
Solenastrea bournoni M. Edwards & Haime, 1850	1					
Solenastrea hyades (Dana, 1846)	1					

Flabellidae

*Blastotrochus nutrix M. Edwards & Haime, 1848				4		
*Falcatoflabellum rauolensis Cairns, 1995				4		
*Flabellum alabastrum Moseley, 1876	1	2				
*Flabellum angulare Moseley, 1876	1	2				
*Flabellum angustum Yabe & Eguchi, 1942				4		
*Flabellum aotearoa Squires, 1964				4		
*Flabellum apertum apertum Moseley, 1876						6
*F. apertum borealis Cairns, 1994				4		
*Flabellum arcuatile Cairns, 1999				4		
*Flabellum areum Cairns, 1982	1					6
*Flabellum atlanticum Cairns, 1979	1					
*Flabellum australe Moseley, 1881			3	4		
*Flabellum campanulatum Holdsworth, 1862				4		
*Flabellum chunii Marenzeller, 1904		2				
*Flabellum conuis Moseley, 1881				4		
*Flabellum curvatum Moseley, 1881	1					6
*Flabellum daphnense Durham & Barnard, 1952					5	
*Flabellum deludens Marenzeller, 1904			3	4		
*Flabellum flexuosum Cairns, 1982						6
*Flabellum floridanum Cairns, 1991	1					
*Flabellum folkesoni Cairns, 1998			3			
*Flabellum galapagense M. Edwards & Haime, 1848					5	
*Flabellum gardineri Cairns, 1982						6
*Flabellum hoffmeisteri Cairns & Parker, 1992			3	4		
*Flabellum impensum Squires, 1962				?		6
*Flabellum japonicum Moseley, 1881			3	4		
*Flabellum knoxi Ralph & Squires, 1962				4		6
*Flabellum lamellulosum Alcock, 1902			3	4		
*Flabellum lowekeyesi Squires & Ralph, 1965			3	4		6
*Flabellum macandrewi Gray, 1849	1	2				
*Flabellum magnificum Marenzeller, 1904			3	4		

*Flabellum marcus Keller, 1974				4		
*Flabellum marenzelleri Cairns, 1989			3	4		
*Flabellum messum Alcock, 1902			3	4		
*Flabellum moseleyi De Pourtalès, 1880	1			?		
*Flabellum ongulense Eguchi, 1965						6
*Flabellum patens Moseley, 1881				4		
*Flabellum pavoninum Lesson, 1831			3	4		
*Flabellum politum Cairns, 1989			3	4		
*Flabellum sexcostatum Cairns, 1989				4		
*Flabellum sibogae Gardiner, 1904			3			
*Flabellum thouarsii M. Edwards & Haime, 1848	1					6
*Flabellum transversale transversale Moseley, 1881				4		
*F. transversale conicum Yabe & Eguchi, 1942				4		
*F. transversale triangulare Eguchi, 1965				4		
*Flabellum tuthilli Hoffmeister, 1933			3			
*Flabellum vaughani Cairns, 1984				4		
*Javania antarctica (Gravier, 1914)						6
*Javania borealis Cairns, 1994					5	
*Javania cailleti (Duchassaing & Michelotti, 1864)	1	2		4	5	6
*Javania californica Cairns, 1994					5	
*Javania exserta Cairns, 1999				4		
*Javania fusca (Vaughan, 1907)				4		
*Javania insignis Duncan, 1876			3	4		
*Javania lamprotichum Moseley, 1880			3	4		
*Javania pseudoalabastra Zibrowius, 1974	1	2				
*Monomyces pygmaea (Risso, 1826)		2				
*Monomyces rubrum (Quoy & Gaimard, 1833)				4		
*Placotrochides frustum Cairns, 1979	1	2				
*Placotrochides scaphula Alcock, 1902			3	4		
*Placotrochus laevis M. Edwards & Haime, 1848			3	4		
*Placotrochus pedicellatus Tenison-Woods, 1879				4		
*Polymyces fragilis (De Pourtalès, 1868)	1					
*Polymyces montereyensis (Durham, 1947)					5	
*Polymyces wellsi Cairns, 1991	1		3	4	5	
*Rhizotrochus flabelliformis Cairns, 1989				4		
*Rhizotrochus levidensis Gardiner, 1899				4		
*Rhizotrochus niinoi Yabe & Eguchi, 1942				4		
*Rhizotrochus tuberculatus (Tenison-Woods, 1879)			3			
*Rhizotrochus typus M. Edwards & Haime, 1848			3	4		
*Truncatoflabellum aculeatum (M. Edwards & Haime, 1848)			3	4		
*Truncatoflabellum angiostomum (Folkeson, 1919)			3			
*Truncatoflabellum angustum Cairns & Zibrowius, 1997				4		
*Truncatoflabellum arcuatum Cairns, 1995				4		
*Truncatoflabellum australiensis Cairns, 1998			3			
*Truncatoflabellum candeanum (M. Edwards & Haime, 1848)				4		
*Truncatoflabellum carinatum Cairns, 1989				4		
*Truncatoflabellum crassum (M. Edwards & Haime, 1848)				4		
*Truncatoflabellum cumingii (M. Edwards & Haime, 1848)				4		
*Truncatoflabellum dens (Alcock, 1902)				4		
*Truncatoflabellum formosum Cairns, 1989			3	4		
*Truncatoflabellum gardineri Cairns in Cairns & Keller, 1993			3	4		

*Truncatoflabellum inconstans (Marenzeller, 1904)			3			
*Truncatoflabellum incrustatum Cairns, 1989				4		
*Truncatoflabellum irregulare (Semper, 1872)				4		
*Truncatoflabellum macroeschara Cairns, 1998			3			
*Truncatoflabellum martensii (Studer, 1878)				4		
*Truncatoflabellum mortenseni Cairns & Zibrowius, 1997				4		
*Truncatoflabellum multispinosum Cairns in Cairns & Keller, 1993			3			
*Truncatoflabellum paripavoninum (Alcock, 1894)			3	4		
*Truncatoflabellum phoenix Cairns, 1995				4		
*Truncatoflabellum pusillum Cairns, 1989			3	4		
*Truncatoflabellum spheniscus (Dana, 1846)			3	4		
*Truncatoflabellum stabile (Marenzeller, 1904)		2	3	4		
*Truncatoflabellum stokesi (M. Edwards & Haime, 1848)				4		
*Truncatoflabellum trapezoideum (Keller, 1981)				4		
*Truncatoflabellum truncum Cairns, 1982						6
*Truncatoflabellum vanuatu (Wells, 1984)				4		
*Truncatoflabellum veroni Cairns, 1998			3			
*Truncatoflabellum vigintifarium Cairns, 1999				4		
*Truncatoflabellum zuluense Cairns in Cairns & Keller, 1993			3			
Fungiacyathidae						
*Fungiacyathus crispus (De Pourtalès, 1871)	1	2				
*Fungiacyathus dennanti Cairns & Parker, 1992			3	4		
*Fungiacyathus fissidiscus Cairns & Zibrowius, 1997				4		
*Fungiacyathus fissilis Cairns, 1984				4		
*Fungiacyathus fragilis Sars, 1872	1	2	3	4		6
*Fungiacyathus granulosus Cairns, 1989			3	4		
*Fungiacyathus hydra Zibrowius & Gili, 1990		2				
*Fungiacyathus marenzelleri (Vaughan, 1906)	1	2		?	5	6
*Fungiacyathus margaretae Cairns, 1995				4		
*Fungiacyathus multicarinatus Cairns, 1998			3			
*Fungiacyathus paliferus (Alcock,1902)			3	4		
*Fungiacyathus pliciseptus Keller, 1981				4		
*Fungiacyathus pseudostephanus Keller, 1976					5	
*Fungiacyathus pusillus pusillus (De Pourtalès, 1868)	1					
*F. pusillus pacificus Cairns, 1995				4		
*Fungiacyathus sandoi Cairns, 1999				4		
*Fungiacyathus sibogae (Alcock, 1902)			3	4		
*Fungiacyathus stephanus (Alcock, 1893)			3	4		
*Fungiacyathus symmetricus (De Pourtalès, 1871)	1					
*Fungiacyathus turbinolioides Cairns, 1989				4		
*Fungiacyathus variegatus Cairns, 1989			3	4		
Fungiidae						
Cantharellus doederleini (Marenzeller, 1907)			3			
Cantharellus jebbi Hoeksema, 1993				4		
Cantharellus noumeae Hoeksema & Best, 1984				4		
Ctenactis albitentaculata Hoeksema, 1989			3	4		
Ctenactis crassa (Dana, 1846)			3	4		
Ctenactis echinata (Pallas), 1766			3	4		
Fungia concinna Verrill, 1864			3	4		

Fungia costulata Ortmann, 1889			3	4		
Fungia curvata Hoeksema, 1989			3	4	5	
Fungia cyclolites Lamarck, 1816			3	4		
Fungia distorta Michelin, 1842			3	4	5	
Fungia fragilis (Alcock, 1893)			3	4		
Fungia fralinae Nemenzo, 1955				4		
Fungia fungites (Linnaeus, 1758)			3	4		
Fungia granulosa Klunzinger, 1879			3	4		
Fungia gravis Nemenzo, 1955			3	4		
Fungia hexagonalis M. Edwards & Haime, 1848			3	4		
Fungia horrida Dana, 1846			3	4		
Fungia moluccensis Van der Horst, 1919			3	4		
Fungia paumotensis Stutchbury 1833			3	4		
Fungia repanda Dana, 1846			3	4		
Fungia scabra Döderlein, 1901			3	4		
Fungia scruposa Klunzinger, 1879			3	4		
Fungia scutaria Lamarck, 1801			3	4		
Fungia seychellensis Hoeksema, 1993			3			
Fungia sinensis (M. Edwards & Haime, 1851)			3	4		
Fungia somervillei Gardiner, 1909			3	4		
Fungia spinifer Claereboudt & Hoeksema, 1987				4		
Fungia taiwanensis Hoeksema & Dai, 1991				4		
Fungia tenuis Dana, 1846			3	4		
Fungia vaughani Boschma, 1923			3	4		
Halomitra clavator Hoeksema, 1989			3	4		
Halomitra pileus (Linnaeus, 1758)			3	4		
Heliofungia actiniformis (Quoy & Gaimard, 1833)			3	4		
Herpolitha limax (Esper, 1797)			3	4		
Lithophyllon mokai Hoeksema, 1989			3	4		
Lithophyllon undulatum Rehberg, 1892			3	4		
Podabacia crustacea (Pallas, 1766)			3	4		
Podabacia motuporensis Veron, 1990				4		
Polyphyllia novaehiberniae (Lesson, 1831)				4		
Polyphyllia talpina (Lamarck, 1801)			3	4		
Sandalolitha dentata Quelch, 1884			3	4		
Sandalolitha robusta (Quelch, 1886)			3	4		
Zoopilus echinatus Dana, 1846			3	4		
Gardineriidae						
*Gardineria hawaiiensis Vaughan, 1907			3	4		
*Gardineria minor Wells, 1973	1					
*Gardineria paradoxa (De Pourtalès, 1868)	1			4		
*Gardineria philippinensis Cairns, 1989			3	4		
*Gardineria simplex (De Pourtalès, 1878)	1					
Guyniidae						
*Guynia annulata Duncan, 1872	1	2	3	4		
*Pedicellocyathus keyesi Cairns, 1995				4		
*Pourtalocyathus hispidus (De Pourtalès, 1878)	1					
*Schizocyathus fissilis De Pourtalès, 1874	1	2				
*Stenocyathus vermiformis (De Pourtalès, 1868)	1	2	3	4		6

*Temnotrochus kermadecensis Cairns, 1995			4		
*Truncatoguynia irregularis Cairns, 1989			4		
Meandrinidae					
Ctenella chagius Matthai, 1928		3			
Dendrogyra cylindricus Ehrenberg, 1834	1				
Dichocoenia stellaris M. Edwards & Haime, 1848	1				
Dichocoenia stokesi M. Edwards & Haime, 1848	1				
Meandrina meandrites (Linnaeus, 1758)	1				
Merulinidae					
Boninastrea boninensis Yabe & Sugiyama, 1935			4		
Hydnophora bonsai Veron, 1990			4		
Hydnophora exesa (Pallas, 1766)		3	4		
Hydnophora grandis Gardiner, 1906		3	4		
Hydnophora microconos (Lamarck, 1816)		3	4		
Hydnophora pilosa Veron, 1985		3	4		
Hydnophora rigida (Dana, 1846)		3	4		
Merulina ampliata (Ellis & Solander, 1786)		3	4		
Merulina scabricula Dana, 1846		3	4		
Merulina scheeri Head, 1983		3			
Paraclavarina triangularis (Veron, Pichon & Best, 1977)		3	4		
Scapophyllia cylindrica (M. Edwards & Haime, 1848)		3	4		
Micrabaciidae					
*Leptopenus antarcticus Cairns, 1989					6
*Leptopenus discus Moseley, 1881	1	3	4	5	6
*Leptopenus hypocoelus Moseley, 1881				5	
*Leptopenus solidus Keller, 1977			4		
*Letepsammia formosissima (Moseley, 1876)		3	4		
*Letepsammia fissilis Cairns, 1995		3	4		
*Letepsammia franki Owens, 1994		3			
*Letepsammia superstes (Ortmann, 1888)			4		
*Rhombopsammia niphada Owens, 1986		3	4		
*Rhombopsammia squiresi Owens, 1986			4		
*Stephanophyllia complicata Moseley, 1876		3	4		
*Stephanophyllia fungulus Alcock, 1902		3	4		
*Stephanophyllia neglecta Boschma, 1923			4		
Mussidae					
Acanthastrea amakusensis Veron, 1990		3	4		
Acanthastrea bowerbanki M. Edwards & Haime, 1857		3	4		
Acanthastrea hemprichii (Ehrenberg, 1834)		3	4		
Acanthastrea echinata (Dana, 1846)		3	4		
Acanthastrea hillae Wells, 1955		3	4		
Acanthastrea ishigakiensis Veron, 1990			4		
Acanthastrea lordhowensis Veron & Pichon, 1982		3	4		
Acanthastrea maxima Sheppard & Salm, 1988		3			
Acanthastrea minuta Moll & Best, 1984			4		
Acanthastrea rotundaflora Chevalier, 1975		3	4		

Acanthophyllia deshayensiana (Michelin, 1850)			3	4		
Australomussa rowleyensis Veron, 1985			3	4		
Blastomussa merleti (Wells, 1961)			3	4		
Blastomussa wellsi Wijsman-Best, 1973			3	4		
Cynarina lacrymalis (M. Edwards & Haime, 1848)			3	4		
Indophyllia macassarensis Best & Hoeksema, 1987				4		
Isophyllastrea rigida (Dana, 1846)	1					
Isophyllia sinuosa (Ellis & Solander, 1786)	1					
Lobophyllia corymbosa (Forskål, 1775)			3	4		
Lobophyllia costata (Dana, 1846)			3	4		
Lobophyllia diminuta Veron, 1985			3	4		
Lobophyllia hataii Yabe, Sugiyama & Eguchi, 1936			3	4		
Lobophyllia hemprichii (Ehrenberg, 1834)			3	4		
Lobophyllia pachysepta Chevalier, 1975			3	4		
Lobophyllia robusta Yabe, Sugiyama & Eguchi, 193				4		
Mussa angulosa (Pallas, 1766)	1					
Mussismilia braziliensis (Verrill, 1868)	1					
Mussismilia harttii (Verrill, 1868)	1					
Mussismilia hispida (Verrill, 1901)	1					
Mycetophyllia aliciae Wells, 1973	1					
Mycetophyllia daniana M. Edwards & Haime, 1849	1					
Mycetophyllia ferox Wells, 1973	1					
Mycetophyllia lamarckiana M.Edwards &Haime, 1848	1					
Mycetophyllia reesi Wells, 1973	1					
Scolymia australis (M. Edwards & Haime, 1849)				4		
Scolymia cubensis M. Edwards & Haime, 1849	1					
Scolymia lacera (Pallas, 1766)	1					
Scolymia vitiensis Brueggemann, 1877			3	4		
Scolymia wellsii Laborel, 1967	1					
Symphyllia agaricia M. Edwards & Haime, 1849			3	4		
Symphyllia erythraea (Klunzinger, 1879)			3			
Symphyllia hassi Pillai & Scheer, 1976			3			
Symphyllia radians M. Edwards & Haime, 1849			3	4		
Symphyllia recta (Dana, 1846)			3	4		
Symphyllia valenciennesii M. Edwards & Haime, 1849			3	4		
Symphyllia wilsoni Veron, 1985			3			

Oculinidae

Acrhelia horrescens (Dana, 1846)			3	4		
*Archohelia rediviva Wells & Alderslade, 1979				4		
*Bathelia candida Moseley, 1881	1					6
*Cyathelia axillaris (Ellis & Solander, 1786)			3	4		
Galaxea alta Nemenzo, 1980				4		
Galaxea astreata (Lamarck, 1816)			3	4		
Galaxea fascicularis (Linnaeus, 1767)			3	4		
Galaxea paucisepta Claereboudt, 1990				4		
*Madrepora arbuscula (Moseley, 1881)				4		
*Madrepora carolina (De Pourtalès, 1871)	1					
*Madrepora kauaiensis Vaughan, 1907				4		
*Madrepora minutiseptum Cairns & Zibrowius, 1997				4		
*Madrepora oculata Linnaeus, 1758	1	2	3	4	5	6

*Madrepora porcellana Moseley, 1881				4	
Oculina arbuscula L. Agassiz, 1864	1				
+Oculina diffusa Lamarck, 1816	1				
Oculina patagonica De Angelis, 1908	?	2			
*Oculina profunda Cairns, 1991					5
Oculina robusta De Pourtalès, 1871	1				
+Oculina tenella De Pourtalès, 1871	1				
Oculina valenciennesi M. Edwards & Haime, 1850	1				
+Oculina varicosa Lesueur, 1821	1				
*Oculina virgosa Squires, 1958				4	
Schizoculina fissipara (M. Edwards & Haime, 1850)		2			
*Sclerhelia hirtella (Pallas, 1766)		2			
Simplastrea vesicularis Umbgrove, 1940			3		
Pectiniidae					
Echinophyllia aspera (Ellis & Solander, 1786)			3	4	
Echinophyllia echinata (Saville-Kent, 1871)			3	4	
Echinophyllia echinoporoides Veron & Pichon, 1979			3	4	
Echinophyllia maxima Moll & Best, 1984				4	
Echinophyllia nishihirai Veron, 1990				4	
Echinophyllia orpheensis Veron & Pichon, 1979			3	4	
Echinophyllia patula (Hodgson & Ross, 1981)			3	4	
Echinophyllia tosaensis Yabe & Eguchi, 1935			3	4	
Mycedium elephantotus (Pallas, 1766)			3	4	
Mycedium robokaki Moll & Best, 1984				4	
Oxypora crassispinosa Nemenzo, 1980				4	
Oxypora glabra Nemenzo, 1959			3	4	
Oxypora lacera (Verrill, 1864)			3	4	
Pectinia alcicornis (Saville-Kent, 1871)			3	4	
Pectinia elongata Rehberg, 1892			3	4	
Pectinia lactuca (Pallas, 1766)			3	4	
Pectinia paeonia (Dana, 1846)			3	4	
Pectinia teres Nemenzo, 1981			3	4	
Physophyllia ayleni (Wells, 1934)				4	
Pocilloporidae					
*Madracis asanoi Yabe & Sugiyama, 1936				4	
+Madracis asperula M. Edwards & Haime, 1849	1	2			
*Madracis brueggemanni (Ridley, 1881)	1				
Madracis decactis (Lyman, 1859)	1	2			
Madracis formosa Wells, 1973	1				
*Madracis hellana M. Edwards & Haime, 1850			3		
*Madracis interjecta Marenzeller, 1907			3		
*Madracis kauaiensis Vaughan, 1907			?	4	
Madracis kirbyi Veron & Pichon, 1976			3	4	
Madracis mirabilis *sensu* Wells, 1973	1				
*Madracis myriaster (M. Edwards & Haime, 1849)	1				
+Madracis pharensis (Heller, 1868)	1	2		?	?
*Madracis profunda Zibrowius, 1980		2			
Madracis senaria Wells, 1974	1				
*Madracis singularis Rehberg, 1892				4	

Palauastrea ramosa Yabe & Sugiyama, 1941	3	4	
Pocillopora capitata Verrill, 1864	3	4	5
Pocillopora damicornis (Linnaeus, 1758)	3	4	5
Pocillopora elegans Dana, 1846	3	4	5
Pocillopora eydouxi M. Edwards & Haime, 1860	3	4	5
Pocillopora meandrina Dana, 1846	3	4	5
Pocillopora verrucosa (Ellis & Solander, 1786)	3	4	5
Pocillopora woodjonesi Vaughan, 1918	3	4	5
Seriatopora caliendrum Ehrenberg, 1834	3	4	
Seriatopora hystrix Dana, 1846	3	4	
Stylophora kuehlmanni Scheer & Pillai, 1983	3		
Stylophora mamillata Scheer & Pillai, 1983	3		
Stylophora mordax (Dana, 1846)	3	4	
Stylophora pistillata (Esper, 1797)	3	4	
Stylophora wellsi Scheer, 1964	3		

Poritidae

Alveopora allingi Hoffmeister, 1925	3	4	
Alveopora catalai Wells, 1968	3	4	
Alveopora excelsa Verrill, 1864	3	4	
Alveopora fenestrata (Lamarck, 1816)	3	4	
Alveopora gigas Veron, 1985	3	4	
Alveopora japonica Eguchi, 1968		4	
Alveopora marionensis Veron & Pichon, 1982		4	
Alveopora ocellata Wells, 1954	3	4	
Alveopora spongiosa Dana, 1846	3	4	
Alveopora tizardi Bassett-Smith, 1890	3	4	
Alveopora verrilliana Dana, 1872	3	4	
Alveopora viridis (Quoy & Gaimard, 1833)	3	4	
Goniopora burgosi Nemenzo, 1955		4	
Goniopora cellulosa Veron, 1990		4	
Goniopora columna Dana, 1846	3	4	
Goniopora djiboutiensis Vaughan, 1907	3	4	
Goniopora eclipsensis Veron & Pichon, 1982	3	4	
Goniopora fruticosa Saville-Kent, 1891	3	4	
Goniopora lobata M. Edwards & Haime, 1860	3	4	
Goniopora minor Crossland, 1952	3	4	
Goniopora norfolkensis Veron & Pichon, 1982	3	4	
Goniopora palmensis Veron & Pichon, 1982	3	4	
Goniopora pandoraensis Veron & Pichon, 1982	3	4	
Goniopora pendulus Veron, 1985	3	4	
Goniopora planulata (Ehrenberg, 1834)	3	4	
Goniopora polyformis Zou, 1980		4	
Goniopora savignyi Dana, 1846	3		
Goniopora somaliensis Vaughan, 1907	3	4	
Goniopora stokesi M. Edwards & Haime, 1851	3	4	
Goniopora stutchburyi Wells, 1955	3	4	
Goniopora tenella (Quelch, 1886)	3	4	
Goniopora tenuidens Quelch, 1886	3	4	
Porites annae Crossland, 1952	3	4	
Porites aranetai Nemenzo, 1955	3	4	

Porites astreoides Lamarck, 1816	1	2			
Porites attenuata Nemenzo, 1955				4	
Porites australiensis Vaughan, 1918			3	4	5
Porites baueri Squires, 1959					5
Porites branneri Rathbun, 1888	1				
Porites colonensis Zlatarski, 1990	1				
Porites compressa Dana, 1846			3	4	
Porites cumulatus Nemenzo, 1955				4	
Porites cylindrica Dana, 1846			3	4	
Porites deformis Nemenzo, 1955			3	4	
Porites densa Vaughan, 1918			3	4	
Porites echinulata Klunzinger, 1879			3		
Porites eridani Umbgrove, 1940			3	4	
Porites evermanni Vaughan, 1907			3	4	
Porites furcata Lamarck, 1816	1				
Porites gabonensis Gravier, 1911		2			
Porites heronensis Veron, 1985			3	4	
Porites horizontalata Hoffmeister, 1925			3	4	
Porites iwayamaensis Eguchi, 1938			3	4	
Porites latistella Quelch, 1884				4	
Porites lichen Dana, 1846			3	4	5
Porites lobata Dana, 1846			3	4	5
Porites lutea M. Edwards & Haime, 1860			3	4	5
Porites mayeri Vaughan, 1918			3	4	
Porites myrmidonensis Veron, 1985				4	
Porites negrosensis Veron, 1990				4	
Porites nigrescens Dana, 1846			3	4	
Porites nodifera Klunzinger, 1879			3		
Porites okinawensis Veron, 1990				4	
Porites panamensis Verrill, 1866					5
Porites porites (Pallas, 1766)	1	2			
Porites rus (Forskål, 1775)			3	4	5
Porites sillimaniani Nemenzo, 1976				4	
Porites solida (Forskål, 1775)			3	4	
Porites somaliensis Gravier, 1910			3		
Porites stephensoni Crossland, 1952			3	4	
Porites sverdrupi Durham, 1947					5
Porites undulata (Klunzinger, 1879)			3		
Porites vaughani Crossland, 1952			3	4	
Stylaraea punctata (Linnaeus, 1758)			3	4	

Rhizangiidae

*Astrangia atrata (Dennant, 1906)			3	4	
*Astrangia browni Palmer, 1928					5
*Astrangia californica Durham & Barnard, 1952					5
*Astrangia conferta Verrill, 1870					5
*Astrangia costata Verrill, 1866					5
*Astrangia dentata Verrill, 1866					5
*Astrangia equatorialis Durham & Barnard, 1952					5
*Astrangia haimei Verrill, 1866					5
*Astrangia howardi Durham & Barnard, 1952					5

*Astrangia macrodentata Theil, 1940		2			
*Astrangia mercatoris Theil, 1941		2			
+Astrangia poculata (Ellis & Solander, 1786)	1	?			
*Astrangia rathbuni Vaughan, 1906	1				6
*Astrangia solitaria (Lesueur, 1817)	1				
*Astrangia woodsi Wells, 1955			4		
*Cladangia exusta Lütken, 1873		3			
*Cladangia gemmans Chevalier, 1966		2			
*Culicia australiensis Hoffmeister, 1933		3	4		
*Culicia cuticulata Klunzinger, 1879		3			
*Culicia excavata M. Edwards & Haime, 1849		3			
*Culicia fragilis Chevalier, 1971			4		
*Culicia hoffmeisteri Squires, 1966		3			
*Culicia quinaria Tenison-Woods, 1878			4		
*Culicia rubeola (Quoy & Gaimard, 1833)			4		
*Culicia smithii (M. Edwards & Haime, 1849)			4		
*Culicia stellata Dana, 1848			4		
*Culicia subaustraliensis Ogawa,Takahashi & Sakai, 1997			4		
*Culicia tenella tenella Dana, 1848			4		
*C. tenella natalensis (Duncan, 1876)		3			
*Culicia tenuisepes Ogawa, Takahashi & Sakai, 1997			4		
*Culicia verreauxi M. Edwards & Haime, 1850		3	4		
*Oulangia bradleyi Verrill, 1866				5	
*Oulangia cyathiformis Chevalier, 1971			4		
*Oulangia stokesiana stokesiana M. Edwards & Haime, 1848		3	4		
*O. stokesiana miltoni Yabe & Eguchi, 1932			4		

Siderastreidae

Anomastrea irregularis Marenzeller, 1901		3			
Coscinaraea columna (Dana, 1846)		3	4		
Coscinaraea crassa Veron & Pichon, 1980		3	4		
Coscinaraea exaesa (Dana, 1846)		3	4		
Coscinaraea fossata (Dana, 1846)		3	4		
Coscinaraea hazimanensis Yabe & Sugiyama, 1936			4		
Coscinaraea marshae Wells, 1962		3			
Coscinaraea mcneilli Wells, 1962		3	4		
Coscinaraea monile (Forskål, 1775)		3	4		
Coscinaraea wellsi Veron & Pichon, 1980		3	4		
Horastrea indica Pichon, 1971		3			
Psammocora brighami Vaughan, 1907		3	4	5	
Psammocora contigua (Esper, 1797)		3	4		
Psammocora digitata M. Edwards & Haime, 1851		3	4		
Psammocora explanulata Van der Horst, 1922		3	4		
Psammocora haimeana M. Edwards & Haime, 1851		3	4		
Psammocora nierstraszi Van der Horst, 1921		3	4		
Psammocora obtusangula (Lamarck, 1816)				5	
Psammocora profundacella Gardiner, 1898		3	4		
Psammocora stellata Verrill, 1866		3	4	5	
Psammocora superficialis Gardiner, 1898		3	4	5	
Psammocora vaughani Yabe & Sugiyama, 1936			4		
Pseudosiderastrea tayamai Yabe & Sugiyama, 1935		3	4		

Siderastrea glynni Budd & Guzman, 1994					5	
Siderastrea radians (Pallas, 1766)	1	2				
Siderastrea savignyana M. Edwards & Haime, 1850			3	4		
Siderastrea siderea (Ellis & Solander, 1786)	1					

Trachyphylliidae

Trachyphyllia geoffroyi (Audouin,1826)			3	4		

Turbinoliidae

*Alatotrochus rubescens (Moseley, 1876)			3	4		
*Australocyathus vincentinus (Dennant, 1904)			3			
*Conocyathus gracilis Cairns, 1998				4		
*Conocyathus zelandiae Duncan, 1876			3	4		
*Cryptotrochus brevipalus Cairns, 1999				4		
*Cryptotrochus carolinensis Cairns, 1988	1					
*Cryptotrochus javanus Cairns, 1988				4		
*Cyathotrochus herdmani Bourne, 1905			3			
*Cyathotrochus nascornatus Gardiner & Waugh, 1938			3			
*Cyathotrochus pileus (Alcock, 1902)			3	4		
*Deltocyathoides orientalis (Duncan, 1876)			3	4		
*Deltocyathoides stimpsonii (De Pourtalès, 1871)	1	2				
*Dunocyathus parasiticus Tenison-Woods, 1878			3	4		
*Endocyathopora laticostata Cairns, 1989				4		
*Foveolocyathus alternans (Cairns & Parker, 1992)			3	4		
*Foveolocyathus verconis Dennant, 1904			3			
*Holcotrochus crenulatus Dennant, 1904			3			
*Holcotrochus scriptus Dennant, 1902			3	4		
*Idiotrochus emarciatus Duncan, 1865			3			
*Idiotrochus kikutii (Yabe & Eguchi, 1941)			3	4		
*Kionotrochus suteri Dennant, 1906				4		
*Notocyathus conicus (Alcock, 1902)			3	4		
*Notocyathus venustus (Alcock, 1902)			3	4		
*Peponocyathus dawsoni Cairns, 1995				4		
*Peponocyathus folliculus (De Pourtalès, 1868)	1	2		4		
*Peponocyathus minimus (Yabe & Eguchi, 1937)				4		
*Platytrochus compressus (Tenison-Woods, 1878)				4		
*Platytrochus hastatus Dennant, 1902			3			
*Platytrochus laevigatus Cairns & Parker, 1992			3			
*Platytrochus parisepta Cairns & Parker, 1992			3			
*Pleotrochus venustus (Alcock, 1902)				4		
*Pleotrochus zibrowii Cairns, 1997				4		
*Pseudocyathoceras avis (Durham & Barnard, 1952)					5	
*Sphenotrochus andrewianus M. Edwards & Haime, 1848		2				
*Sphenotrochus aurantiacus Marenzeller, 1904			3			
*Sphenotrochus auritus De Pourtalès, 1874	1					
*Sphenotrochus evexicostatus Cairns in Cairns & Keller, 1993			3			
*Sphenotrochus excavatus Tenison-Woods, 1878				4		
*Sphenotrochus gardineri Squires, 1961						6
*Sphenotrochus gilchristi Gardiner, 1904			3			
*Sphenotrochus hancocki Durham & Barnard, 1952				4	5	
*Sphenotrochus imbricaticostatus Cairns in Cairns & Keller, 1993			3			

*Sphenotrochus ralphae Squires, 1964			4	
*Sphenotrochus squiresi Cairns, 1995			4	
*Thrypticotrochus multilobatus Cairns, 1989		3	4	
*Thrypticotrochus petterdi (Dennant, 1906)			4	
*Trematotrochus corbicula (De Pourtalès, 1878)	1			
*Trematotrochus hedleyi Dennant, 1906			4	
*Tropidocyathus labidus Cairns & Zibrowius, 1997		3	4	
*Tropidocyathus lessoni (Michelin, 1842)		3	4	
*Turbinolia stephensoni (Wells, 1959)			4	

Incertae sedis

*Cylicia inflata De Pourtalès, 1878	1			

Class Hydrozoa
Order Capitata

Milleporidae

Millepora alcicornis Linnaeus, 1758	1			
Millepora boschmai De Weerdt & Glynn, 1991				5
Millepora braziliensis Verrill, 1868	1			
Millepora complanata Lamarck, 1816	1			
Millepora dichotoma (Forskål, 1775)		3	4	
Millepora exaesa (Forskål, 1775)		3	4	5
Millepora foveolata Crossland, 1952			4	
Millepora intricata Edwards, 1857		3	4	5
Millepora latifolia Boschma, 1948		3	4	
Millepora murrayi Quelch, 1884		3	4	
Millepora nitida Verrill, 1868	1			
Millepora platyphylla Hemprich & Ehrenberg, 1834		3	4	5
Millepora squarrosa Lamarck, 1816	1			
Millepora striata Duchassaing & Michelotti, 1864	1			
Millepora tenera Boschma, 1949		3	4	
Millepora tuberosa Boschma, 1966		3		
Millepora xishaensis Zou, 1978			4	

Order Filifera

*Hydractiniidae

Hydrocorella africana Stechow, 1921	2			
Janaria mirablis Stechow, 1921				5
Polyhydra calcarea (Carter, 1877)	2			

*Stylasteridae

Adelopora crassilabrum Cairns, 1991			4	
Adelopora fragilis Cairns, 1991			4	
Adelopora moseleyi Cairns, 1991			4	
Adelopora pseudothyron Cairns, 1982				6
Astya aspidopora Cairns, 1991			4	
Astya subviridis (Moseley, 1879)			4	

Calyptopora reticulata Boschma, 1968			4		6
Calyptopora sinuosa Cairns, 1991			4		
Cheiloporidion pulvinatum Cairns, 1983	1				6
Conopora adeta Cairns, 1987			4		
Conopora anthohelia Cairns, 1991			4		
Conopora candelabrum Cairns, 1991			4		
Conopora dura Hickson & England, 1909		3			
Conopora gigantea Cairns, 1991			4		
Conopora laevis (Studer, 1878)			4		
Conopora tetrastichopora Cairns, 1991			4		
Conopora unifacialis Cairns, 1991			4		
Conopora verrucosa (Studer, 1878)			4		6
Crypthelia affinis Moseley, 1879		2			
Crypthelia balia Hickson & England, 1905			4		
Crypthelia clausa Broch, 1947		3			
Crypthelia cryptotrema Zibrowius, 1981			4		
Crypthelia curvata Cairns, 1991			4		
Crypthelia cymas Cairns, 1986			4	5	
Crypthelia dactylopoma Cairns, 1986				5	
Crypthelia eueides Cairns, 1986				5	
Crypthelia floridana Cairns, 1986	1				
Crypthelia formosa Cairns, 1983					6
Crypthelia fragilis Cairns, 1983			4		6
Crypthelia gigantea Fisher, 1938				5	
Crypthelia glebulenta Cairns, 1986				5	
Crypthelia glossopoma Cairns, 1986	1				
Crypthelia insolita Cairns, 1986	1				
Crypthelia japonica (M. Edwards & Haime, 1849)			4		
Crypthelia lacunosa Cairns, 1986		3			
Crypthelia medioatlantica Zibrowius & Cairns, 1992		2			
Crypthelia micropoma Cairns, 1985		3			
Crypthelia papillosa Cairns, 1986	1				
Crypthelia peircei De Pourtalès, 1867	1				
Crypthelia platypoma Hickson & England, 1905			4		
Crypthelia polypoma Cairns, 1991			4		
Crypthelia pudica M. Edwards & Haime, 1849			4	5	
Crypthelia ramosa Hickson & England, 1905		?	4		
Crypthelia robusta Cairns, 1991			4		
Crypthelia stenopoma Hickson & England, 1905			4		
Crypthelia studeri Cairns, 1991			4		6
Crypthelia tenuiseptata Cairns, 1986	1	2			
Crypthelia trophostega Fisher, 1938				5	
Crypthelia vascomarquesi Zibrowius & Cairns, 1992		2			
Cyclohelia lamellata Cairns, 1991				5	
Distichopora anceps Cairns, 1978			4		
Distichopora anomala Cairns, 1986	1				
Distichopora barbadensis De Pourtalès, 1874	1				
Distichopora borealis borealis Fisher, 1938			4		
D. borealis japonica Broch, 1942			4		
Distichopora cervina De Pourtalès, 1871	1				
Distichopora coccinea Gray, 1860			4		

Distichopora contorta De Pourtalès, 1878	1				
Distichopora dispar Cairns, 1991			4		
Distichopora foliacea De Pourtalès, 1868	1				
Distichopora gracilis Dana, 1848			4		
Distichopora irregularis Moseley, 1879		3			
Distichopora laevigranulosa Cairns, 1986				5	
Distichopora livida Tenison-Woods, 1879			4		
Distichopora nitida Verrill, 1864			4		
Distichopora profunda Hickson & England, 1909		3			
Distichopora providentiae Hickson & England, 1909)		3			
Distichopora rosalindae Cairns, 1986	1				
Distichopora serpens Broch, 1942		3			
Distichopora sulcata De Pourtalès, 1867	1				
Distichopora uniserialis Cairns, 1986	1				
Distichopora vervoorti Cairns & Hoeksema, 1999			4		
Distichopora violacea (Pallas, 1766)		3	4		
Distichopora yucatanensis Cairns, 1986	1				
Errina altispina Cairns, 1986	1				
Errina antarctica (Gray, 1872)					6
Errina aspera (Linnaeus, 1767)		2			
Errina atlantica Hickson, 1912		2			
Errina bicolor Cairns, 1991			4		6
Errina boschmai Cairns, 1983					6
Errina capensis Hickson, 1912		2			
Errina chathamensis Cairns, 1991			4		
Errina cheilopora Cairns, 1983			4		6
Errina cochleata Pourtalès, 1867	1				
Errina cooki Hickson, 1912			4		
Errina cyclopora Cairns, 1983					6
Errina dabneyi (De Pourtalès, 1871)		2			
Errina dendyi Hickson, 1912			4		
Errina fissurata Gray, 1872					6
Errina gracilis Marenzeller, 1903	1				6
Errina hicksoni Cairns, 1991			4		
Errina japonica Eguchi, 1968			4		
Errina kerguelensis Cairns, 1983					6
Errina laevigata Cairns, 1991			4		6
Errina laterorifa Eguchi, 1964					6
Errina macrogastra Marenzeller, 1904				5	
Errina novaezelandiae Hickson, 1912			4		
Errina porifera Naumov, 1960			4		
Errina reticulata Cairns, 1991			4		6
Errina sinuosa Cairns, 1991			4		
Errinopora cestoporina Cairns, 1983					6
Errinopora latifundata Naumov, 1960			4		
Errinopora nanneca Fisher, 1938				5	
Errinopora pourtalesi (Dall, 1884)				5	
Errinopora stylifera (Broch, 1935)				5	
Errinopora zarhyncha Fisher, 1938				5	
Errinopsis fenestrata Cairns, 1983					6
Errinopsis reticulum Broch, 1951					6

Gyropora africana Boschma, 1960		2			
Inferiolabiata labiata (Moseley, 1879)		2		4	6
Inferiolabiata lowei (Cairns, 1983)		2		4	6
Inferiolabiata spinosa Cairns, 1991				4	
Lepidopora acrolophos Cairns, 1983					6
Lepidopora biserialis Cairns, 1986	1				
Lepidopora carinata (De Pourtalès, 1867)	1				
Lepidopora clavigera Cairns, 1986	1				
Lepidopora concatenata Cairns, 1991				5	
Lepidopora cryptocymas Cairns, 1985				4	
Lepidopora decipiens Boschma, 1964	1				
Lepidopora dendrostylus Cairns, 1991				4	
Lepidopora diffusa Boschma, 1963		2			
Lepidopora eburnea (Calvet, 1903)		2			
Lepidopora glabra (De Pourtalès, 1867)	1				
Lepidopora granulosa Cairns, 1983					6
Lepidopora microstylus Cairns, 1991				4	
Lepidopora polystichopora Cairns, 1985				4	
Lepidopora sarmentosa (Boschma, 1968)				4	6
Lepidopora symmetrica Cairns, 1991				4	
Lepidotheca altispina Cairns, 1991				4	
Lepidotheca brochi Cairns, 1986	1				
Lepidotheca cervicornis (Broch, 1942)				4	
Lepidotheca chauliostylus Cairns, 1991				4	
Lepidotheca fascicularis (Cairns, 1983)				4	6
Lepidotheca horrida (Hickson & England, 1905)				4	
Lepidotheca inconsuta Cairns, 1991					6
Lepidotheca macropora Cairns, 1986				5	
Lepidotheca pourtalesi Cairns, 1986	1				
Lepidotheca ramosa (Hickson & England, 1905)				4	
Lepidotheca robusta Cairns, 1991				4	
Lepidotheca tenuistylus (Broch, 1942)			3		
Paraerrina decipiens Broch, 1942			3		
Phalangopora regularis Kirkpatrick, 1897			3		
Pliobothrus echinatus Cairns, 1986	1				
Pliobothrus fistulosus Cairns, 1991				5	
Pliobothrus gracilis Zibrowius & Cairns, 1992		2			
Pliobothrus symmetricus De Pourtalès, 1868	1	2			
Pliobothrus tubulatus (De Pourtalès, 1867)	1				
Pseudocrypthelia pachypoma (Hickson & England, 1905)				4	
Sporadopora dichotoma (Moseley, 1877)	1				6
Sporadopora micropora Cairns, 1991				4	
Sporadopora mortenseni Broch, 1942				4	
Stellapora echinata (Moseley, 1879)	1				6
Stenohelia concinna Boschma, 1964				5	
Stenohelia conferta Boschma, 1968				4	
Stenohelia echinata Eguchi, 1968				4	
Stenohelia maderensis (Johnson, 1862)		2			
Stenohelia pauciseptata Cairns, 1986	1				
Stenohelia profunda Moseley, 1881	1				
Stenohelia tiliata (Hickson & England, 1905)				4	

Stenohelia umbonata (Hickson & England, 1905)				4		
Stenohelia yabei (Eguchi, 1941)				4		
Stephanohelia praecipua Cairns, 1991				4		
Stylantheca papillosa (Dall, 1884)					5	
Stylantheca petrograpta (Fisher, 1938)					5	
Stylantheca porphyra Fisher, 1931					5	
Stylaster alaskanus Fisher, 1938					5	
Stylaster amphiheloides Kent, 1871		2		4		
Stylaster antillarum Zibrowius & Cairns, 1982	1					
Stylaster asper Kent, 1871			3	4		
Stylaster aurantiacus Cairns, 1986	1					
Stylaster bellus (Dana, 1848)				4		
Stylaster bilobatus Hickson & England, 1905				4		
Stylaster bithalamus Broch, 1936		2				
Stylaster blatteus (Boschma, 1961)		2				
Stylaster bocki Broch, 1936				4		
Stylaster boreopacificus Broch, 1932				4		
Stylaster boschmai (Eguchi, 1965)				4		
Stylaster brochi (Fisher, 1938)				4		
Stylaster brunneus Boschma, 1970				4		
Stylaster californicus (Verrill, 1866)					5	
Stylaster campylecus campylecus (Fisher, 1938)					5	
S. campylecus parageus (Fisher, 1938)					5	
S. campylecus tylotus (Fisher, 1938)					5	
S. campylecus trachystomus (Fisher, 1938)					5	
Stylaster cancellatus Fisher, 1938					5	
Stylaster carinatus Broch, 1936				4		
Stylaster cocosensis Cairns, 1991					5	
Stylaster complanatus De Pourtalès, 1867	1					
Stylaster corallium Cairns, 1986	1					
Stylaster crassior Broch, 1936			3			
Stylaster densicaulis Moseley, 1879	1					6
Stylaster dentatus Broch, 1936				4		
Stylaster divergens Marenzeller, 1904					5	
Stylaster duchassaingi De Pourtalès, 1867	1					
Stylaster eguchii (Boschma, 1966)				4		6
Stylaster elassotomus Fisher, 1938					5	
Stylaster erubescens erubescens De Pourtalès, 1868	1	2				
S. erubescens groenlandicus Zibrowius & Cairns, 1992		2				
S. erubescens britannicus Zibrowius & Cairns, 1992		2				
S. erubescens meteorensis Zibrowius & Cairns, 1992		2				
Stylaster eximius Kent, 1871				4		
Stylaster filogranus De Pourtalès, 1871	1					
Stylaster flabelliformis (Lamarck, 1816)			3	4		
Stylaster galapagensis Cairns, 1986					5	
Stylaster gemmascens (Esper, 1794)		2				
Stylaster gracilis M. Edwards & Haime, 1850			?	4		
Stylaster granulosus M. Edwards & Haime, 1850				4		
Stylaster hattorrii (Eguchi, 1968)				4		
Stylaster horologium Cairns, 1991				4		
Stylaster ibericus Zibrowius & Cairns, 1992		2				

Stylaster imbricatus Cairns, 1991			4		
Stylaster incompletus (Tenison-Woods, 1883)			4		
Stylaster incrassitus (Eguchi, 1941)			4		
Stylaster inornatus Cairns, 1986	1				
Stylaster laevigatus Cairns, 1986	1				
Stylaster lonchitis Broch, 1947		3			
Stylaster marenzelleri Cairns, 1986				5	
Stylaster maroccanus Zibrowius & Cairns, 1992		2			
Stylaster marshae Cairns, 1988		3			
Stylaster microstriatus Broch, 1936			4		
Stylaster miniatus (De Pourtalès, 1868)	1				
Stylaster moseleyanus (Fisher, 1938)				5	
Stylaster multiplex Hickson & England, 1905			4		
Stylaster nobilis (Kent, 1871)		2			
Stylaster norvegicus (Gunnerus, 1768)		2			
Stylaster papuensis Zibrowius, 1981			4		
Stylaster polymorphus Broch, 1936		Unknown			
Stylaster polyorchis (Fisher, 1938)				5	
Stylaster profundus (Moseley, 1879)	1				
Stylaster profundiporus Broch, 1936			4		
Stylaster pulcher Quelch, 1884			4		
Stylaster purpuratus (Naumov, 1960)			4		
Stylaster ramosus Broch, 1947		3			
Stylaster robustus (Cairns, 1983)					6
Stylaster rosaceus (Greeff, 1886)		2			
Stylaster roseus (Pallas, 1766)	1				
Stylaster sanguineus Valenciennes in M. Edw. & Haime,1850			4		
Stylaster scabiosus Broch, 1935			4		
Stylaster solidus Broch, 1935			4		
Stylaster spatula Cairns, 1986	1				
Stylaster stejnegeri (Fisher, 1938)				5	
Stylaster stellulatus Stewart, 1878			4		
Stylaster subviolacea (Kent, 1871)		2			
Stylaster tenisonwoodsi Cairns, 1988		3			
Stylaster venustus (Verrill, 1870)				5	
Stylaster verrillii (Dall, 1884)				5	
Systemapora ornata Cairns, 1991			4		