

ATOLL RESEARCH BULLETIN

NO. 459

SPECIES RICHNESS OF RECENT SCLERACTINIA

BY

STEPHEN D. CAIRNS

ISSUED BY

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

SPECIES RICHNESS OF RECENT SCLERACTINIA

BY

STEPHEN D. CAIRNS¹

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

¹Department of Invertebrate Zoology, National Museum of Natural History, Smithsonian Institution, Washington, D.C., 20560-0163

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

| Year | Author | I-Pac | Zooxanthellate Atl. | Total | Azoox- anthellate | Total |
|---|--|------------|------------------------|------------|----------------------|--------------|
| 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 | WCNC | 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 |

*allows for 11 facultative species

Estimates of Total Species Richness:

| | | | | | |
|---|---|---|------|------|-----------|
| Based on partial inventory (see text) | - | - | >696 | >781 | >1479 |
| Based on rate of description (see text) | - | - | - | - | 1460-2628 |

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 | Zooxanthellate | Azooxanthellate | *Facultative | 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 |
| Meandriniidae | 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.

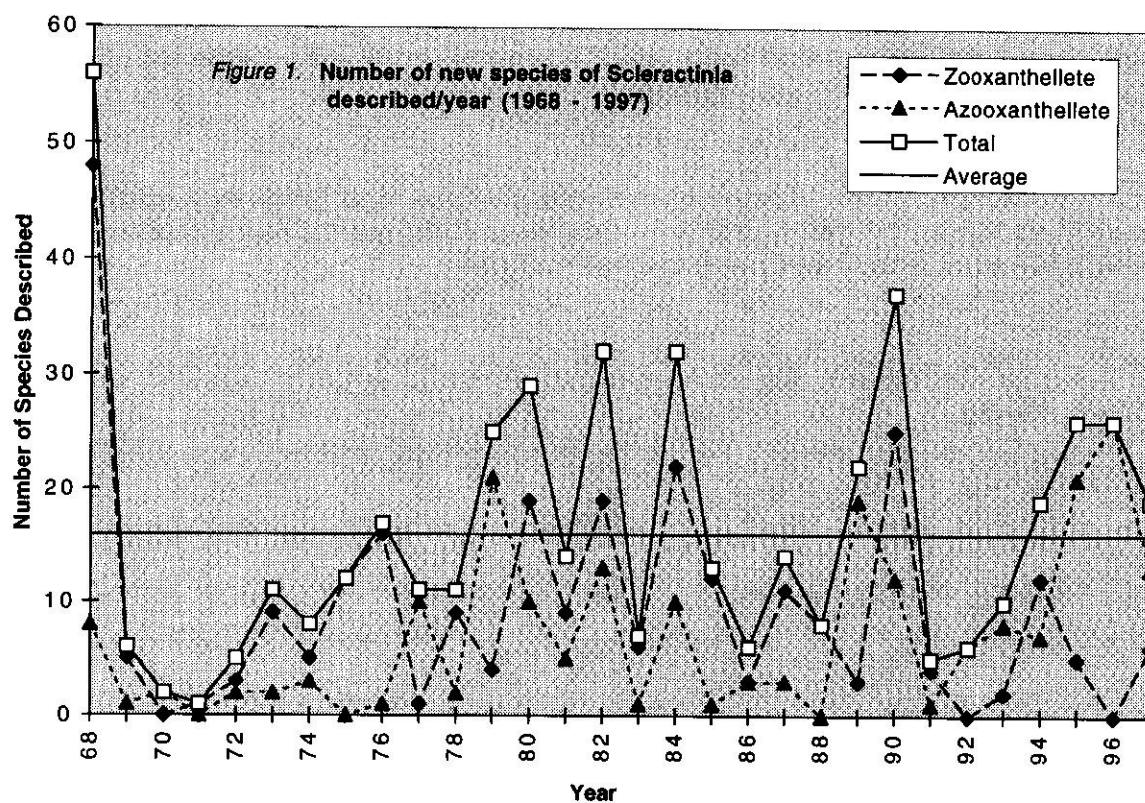
The Current Number

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 unevenness 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 ($669 \div 0.857$), 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 ($656 \div 0.939$), 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 | Zooxanthellate | Azooxanthellate | 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 $16.1 \div 1314$, 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 \div 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 \div 240 years (=1998-1758), yields the equation: $16.1 \div (1314 \div 240)$, 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 Scruton (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, Stemmann & Johnson (1994, Table 5) and Budd, Johnson & Stemmann (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 Kosmyrin, Bert Hoeksema, and Timothy Werner. I also thank Peter Glynn for access to his advance list of reef corals from the eastern Pacific.

REFERENCES

- Brusca, RC, Brusca, GJ (1990) Invertebrates. Sinauer Associates, Inc., Sunderland, 922 pp.
- Budd, AF (*in press*) Diversity and extinction in the Cenozoic history of Caribbean reefs. In: Hughs, TP , Sale, P (eds) Ecology of coral reefs: biological and evolutionary approaches. Yale University Press.
- Budd, AF, Johnson, KG, Stemmann, TA (1996) Plio-Pleistocene turnover and extinctions in the Caribbean reef-coral fauna. In: Jackson, JBC, Budd, AF, Coates, AG (eds) Evolution and Environment in Tropical America. University of Chicago Press, Chicago, pp. 168-204.
- Budd, AF, Stemmann, TA, Johnson, KG (1994) Stratigraphic distributions of genera and species of Neogene to Recent Caribbean reef corals. *J Paleont* 68(5): 951-977.
- Cairns, SD (1979) The deep-water Scleractinia of the Caribbean Sea and adjacent waters. *Stud Fauna Curaçao* 57(180): 341 pp.
- Cairns, SD (1982) Antarctic and Subantarctic Scleractinia. *Antarct Res Ser* 34(1): 74 pp.
- Cairns, SD (1984) New records of ahermatypic corals (Scleractinia) from the Hawaiian and Line Islands. *Occas Pap Bernice Pauahi Bishop Mus* 25(10): 1-30.
- Cairns, SD (1989) A revision of the ahermatypic Scleractinia of the Philippine Islands and adjacent waters, Part 1: Fungiacyathidae, Micrabaciidae, Turbinoliinae, Guyniidae, and Flabellidae. *Smithson Contrib Zool* 486: 136 pp.

- Cairns, SD (1991) A revision of the ahermatypic Scleractinia of the Galápagos and Cocos Islands. *Smithson Contrib Zool* 504: 32 pp.
- Cairns, SD (1994) Scleractinia of the temperate North Pacific. *Smithson Contrib Zool* 557: 150 pp.
- Cairns, SD (1995) The marine fauna of New Zealand: Scleractinia (Cnidaria: Anthozoa). N Z Oceanogr Inst Mem 103: 139 pp.
- Cairns, SD (1997) A generic revision and phylogenetic analysis of the Turbinoliidae (Cnidaria: Scleractinia). *Smithson Contrib Zool* 591: 55 pp.
- Cairns, SD (1998) Azoanthellate Scleractinia (Cnidaria: Anthozoa) of Western Australia. *Rec West Australian Mus* 18: 361-417.
- Cairns, SD (1999) Cnidaria Anthozoa; deep-water azooanthellate Scleractinia from Vanuatu, and Wallis and Futuna Islands. *Mém Mus natn Hist nat* 180: 31-167.
- Cairns, SD (in press, a) A revision of the shallow-water azooanthellate Scleractinia of the western Atlantic. *Stud. nat. Hist. Caribb region.*
- Cairns, SD (in press, b) Stratigraphic distribution of Neogene Caribbean azooanthellate corals (Scleractinia and Stylasteridae). *Bull Am Paleont*
- Cairns, SD, den Hartog, JC, Arneson, C (1986) Class Anthozoa. In: Sterrer, W. (ed) *Marine Fauna and Flora of Bermuda*. John Wiley & Sons, New York, pp. 159-194.
- Cairns, SD, Keller, NB (1993) New taxa and distributional records of azooanthellate Scleractinia from the tropical south-west Indian Ocean, with comments on their zoogeography and ecology. *Ann S Afr Mus* 103(5): 213-292.
- Cairns, SD, Parker, SA (1992) Review of the Recent Scleractinia of South Australia, Victoria, and Tasmania. *Rec S Austr Mus, Monogr Ser* 3: 82 pp.
- Cairns, SD, Stanley, GD (1982) Ahermatypic coral banks: living and fossil counterparts. *Proc 4th Int Coral Reef Symp* 1: 611-618.
- Cairns, SD, Zibrowius, H (1997) Cnidaria Anthozoa: azooanthellate Scleractinia from the Philippine and Indonesian regions. *Mém Mus natn Hist nat* 172: 27-243.
- Chevalier, J-P (1987) Ordre de Scléractiniaires: Systématique. In: Grassé, P-P (ed) *Traité de Zoologie* 3(3) Masson, Paris, pp. 679-753.
- Colwell, RK, Coddington, JA (1994) Estimating terrestrial biodiversity through extrapolation. *Phil Trans R Soc London B* 345: 101-118.
- Dinesen, ZD (1980) A revision of the coral genus *Leptoseris* (Scleractinia: Fungiina: Agariciidae). *Mem Qd Mus* 20(1): 181-235.
- Dunn, DF (1982) Cnidaria. In: Parker, SP (ed.) *Synopsis and Classification of Living Organisms*. McGraw-Hill Book Co., New York, pp 669-706.
- Erwin, TL (1991) How many species are there?: revisited. *Conserv Biol* 5: 330-333.
- Hammond, PM (1992). Species inventory. In: Broombridge, B (ed) *Global Diversity: Status of the Earth's Living Resources*. Chapman & Hall, London, pp. 17-39.
- Hammond, PM (1994) Practical approaches to the estimation of the extent of biodiversity in speciose groups. *Phil Trans R Soc London B* 345: 119-136.
- Hodkinson, ID, Casson, D (1991) A lesser predilection for bugs: Hemiptera (Insecta) diversity in tropical forests. *Biol J Linn Soc* 43: 101-109.
- Hoeksema, BW (1989) Taxonomy, phylogeny, and biogeography of mushroom corals

- (Scleractinia: Fungiidae). Zool Verh (Leiden) 254: 295 pp.
- Hyman, LH (1940) The Invertebrates: Protozoa through Ctenophora. McGraw-Hill Book Company, New York, 726 pp.
- Jackson, JBC (1991) Adaptation and diversity of reef corals. Bioscience 41(7): 475-482.
- Kaestner, A. (1967) Invertebrate Zoology, Volume 1. Interscience Publishers, New York, 597 pp.
- Knowlton, N, Weil, E, Weigt, LA, Guzmán, HM (1992) Sibling species in *Montastraea annularis*, coral bleaching, and the coral climate record. Science 255: 330-333.
- Kukenthal, W (1925) Madreporaria In: Krumbach, T (ed.) Handbuch der Zoologie 1, Walter de Gruyter & Co., Berlin, p. 825..
- Kühlmann, DHH (1985) Living Coral Reefs of the World. Arco Publishing, Inc, New York, 185 pp.
- Land, van der, J (ed)(1995, unpublished draft) Unesco-IOC Register of Marine Organisms: Coelenterata or Cnidaria, Class Hexacorallia: Order Scleractinia (Stony Corals), National Museum of Natural History, Leiden, 21 pp.
- Lang, JC (1984) Whatever works: the variable importance of skeletal and of non-skeletal characters in scleractinian taxonomy. Paleont Amer 54: 18-44.
- Latypov, YA (1990) Scleractinia corals from Viet Nam, Part 1: Thamnasteriidae, Astrocoeniidae, Pocilloporidae, Dendrophylliidae. Hayka, Moscow, 81 pp. [In Russian]
- Latypov, YA (1992) Scleractinian corals from Viet Nam, Part 2: Acroporidae. Hayka, Moscow, 131 pp. [In Russian]
- May, RM (1990) How many species? Phil Trans R Soc (B)330: 293-304.
- Miller, KJ, Benzie, JAH (1997) No clear cut genetic distinction between morphological species within the coral genus *Platygyra*. Bull Mar Sci 61(3): 907-917.
- Naumov, DB, Propp, MB, Ribakov, CH, 1985. World of Corals. Gidrometeoizdat, Leningrad, 359 pp. [in Russian]
- Rosen, DR (1981) The tropical high diversity enigma - the coral's-eye view. In: Forey, PL (ed) The Evolving Biosphere, Cambridge University Press, Cambridge, pp. 103-129.
- Scheer, G, Pillai, CSG (1983) Report on the stony corals from the Red Sea. Zoologica 133: 198 pp.
- Schuhmacher, H (1988) Korallenriffe. BLV Verlagsgesellschaft, München, 275 pp.
- Scrutton, CT (1997) The Palaeozoic corals, I: origin and relationships. Proc Yorkshire Geol Soc 51(3): 177-208.
- Stork, NE (1993) How many species are there? Biodiv Conserv 2: 215-232.
- Stork, NE (1997) Measuring global biodiversity and its decline. In: Reaka-Kudla, ML, Wilson, DE, Wilson, EO (eds) Biodiversity II. John Henry Press, Washington, DC, pp. 41-68.
- Vaughan, TW (1907) Recent Madreporaria of the Hawaiian Islands and Laysan. Bull US Nat Mus 59: 427 pp.
- Vaughan, TW, Wells, JW (1943) Revision of the suborders families, and genera of the Scleractinia. Geol Soc Amer Spec pap 44: 363 pp.
- Veron, JEN (1985) New Scleractinia from Australian coral reefs. Rec West Aust Mus 12(1): 147-183.
- Veron, JEN (1986) Corals of Australia and the Indo-Pacific. Angus & Robertson Publishers, North Ryde, 644 pp.

- Veron, JEN (1990) New Scleractinia from Japan and other Indo-West Pacific countries. *Galaxea* 9:95-173.
- Veron, JEN (1992) Hermatypic corals of Japan. *Aust Inst Mar. Sci Monogr* 9: 234 pp.
- Veron, JEN (1995) Corals in Space and Time. UNSW Press, Sydney, 321 pp.
- Veron, JEN, Marsh, LM (1988) Hermatypic corals of Western Australia. *Rec West Aust Mus, Supplement* 29: 136 pp.
- Veron, JEN, et al. (1976-1984) Scleractinia of Eastern Australia: Parts 1-5. *Aust Inst Mar Sci Monogr Ser* 1, 3-6: 1383 pp.
- Wallace, CC, Willis, BL (1994) Systematics of the coral genus *Acropora*: implications of new biological findings for species concepts. *Annu Rev Ecol Syst* 25: 237-262.
- Wells, JW (1956) Scleractinia. In: Moore, RC (ed) *Treatise on Invertebrate Paleontology*, Part F, Coelenterata. Geological Society of America, Lawrence, Kansas, pp. F328-F444.
- Willis, BL (1990) Species concepts in extant scleractinian corals: considerations based on reproductive biology and genotypic population structures. *Syst Bot* 15(1): 136-149.
- Wilmoth, JH (1967) Biology of Invertebrata. Prentice Hall, Inc., Englewood Cliffs, 465 pp.
- World Conservation Monitoring Centre (1993) Checklist of fish and invertebrates listed in the CITES appendices. Joint Nature Conservation Committee, Peterborough, 171 pp.
- Zibrowius, H (1980) Les Scléractiniaires de la Méditerranée et de l'Atlantique nord-oriental. *Mém Inst Océanogr (Monaco)* 11: 284 pp.
- Zibrowius, H (1989) Mise au point sur les Scléractiniaires comme indicateurs de profondeur. *Géol Médit* 15(1): 27-47.
- Zlatarski, VN (1982, French ed.) Description systématique. In: Zlatarski, VN, Estalella, NM, Les Scléractiniaires de Cuba. Acad Bulgare Sci, Sofia, pp. 25-343.

Appendix: List of Extant Stony Corals

BY

STEPHEN D. CAIRNS¹, BERT W. HOEKSEMA² and JACOB VAN DER LAND²

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 *Pseudosolandaria*.

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

¹Department of Invertebrate Zoology, National Museum of Natural History, Smithsonian Institution, Washington, D. C. 20560

²National Museum of Natural History, Postbus 9517, 2300 RA Leiden, The Netherlands

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 brueggemannii (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 |

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

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

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

Agariciidae

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

| | | | |
|---|---|---|---|
| <i>Pavona maldivensis</i> (Gardiner, 1905) | 3 | 4 | 5 |
| <i>Pavona minuta</i> Wells, 1954 | 3 | 4 | 5 |
| <i>Pavona varians</i> Verrill, 1864 | 3 | 4 | 5 |
| <i>Pavona venosa</i> (Ehrenberg, 1834) | 3 | 4 | |
| <i>Pavona xarifae</i> Scheer & Pillai, 1974 | 3 | 4 | 5 |

Anthemiphylliidae

| | | | |
|---|---|---|--|
| * <i>Anthemiphyllia dentata</i> (Alcock, 1902) | 3 | 4 | |
| * <i>Anthemiphyllia frustum</i> Cairns, 1994 | | 4 | |
| * <i>Anthemiphyllia macrolobata</i> Cairns, 1998 | | 4 | |
| * <i>Anthemiphyllia multidentata</i> Cairns, 1998 | | 4 | |
| * <i>Anthemiphyllia pacifica</i> Vaughan, 1907 | | 4 | |
| * <i>Anthemiphyllia patera</i> <i>patera</i> De Pourtalès, 1878 | 1 | | |
| * <i>A. patera</i> <i>costata</i> Cairns, 1999 | | 4 | |
| * <i>Anthemiphyllia spinifera</i> Cairns, 1999 | | 4 | |

Astrocoeniidae

| | | | |
|---|---|---|---|
| <i>Stephanocoenia intersepta</i> (Lamarck, 1816) | 1 | | |
| <i>Stylocoeniella armata</i> Ehrenberg, 1834 | | 3 | 4 |
| <i>Stylocoeniella cocosensis</i> Veron, 1990 | | 3 | 4 |
| <i>Stylocoeniella guentheri</i> Bassett-Smith, 1890 | | 3 | 4 |

Caryophylliidae

| | | | | |
|--|---|---|---|---|
| * <i>Anomocora carinata</i> Cairns, 1991 | | | | 5 |
| * <i>Anomocora fecunda</i> (De Pourtalès, 1871) | 1 | 2 | 3 | 4 |
| * <i>Asterosmilia gigas</i> (van der Horst, 1931) | | | 3 | 4 |
| * <i>Asterosmilia marchadi</i> (Chevalier, 1966) | 1 | 2 | 3 | 4 |
| * <i>Asterosmilia prolifera</i> (De Pourtalès, 1871) | 1 | 2 | | |
| * <i>Aulocyathus atlanticus</i> Zibrowius, 1980 | | 2 | | |
| * <i>Aulocyathus juvenescens</i> Marenzeller, 1904 | | | 3 | 4 |
| * <i>Aulocyathus matridicus</i> (Kent, 1871) | | | | 4 |
| * <i>Aulocyathus recidivus</i> (Dennant, 1906) | | | 3 | 4 |
| * <i>Bathycyathus chilensis</i> M. Edwards & Haime, 1848 | | | | 5 |
| * <i>Bourneotrochus stellulatus</i> (Cairns, 1984) | | | | 4 |
| * <i>Caryophyllia abrupta</i> Cairns, 1999 | | | | 4 |
| * <i>Caryophyllia abyssorum</i> Duncan, 1873 | | 2 | | |
| * <i>Caryophyllia alaskensis</i> Vaughan, 1941 | | | 4 | 5 |
| * <i>Caryophyllia alberti</i> Zibrowius, 1980 | | 2 | | |
| * <i>Caryophyllia ambrosia ambrosia</i> Alcock, 1898 | 1 | 2 | 3 | 4 |
| *C. ambrosia caribbeana Cairns, 1979 | 1 | | | |
| * <i>Caryophyllia antarctica</i> Marenzeller, 1904 | | | | 6 |
| * <i>Caryophyllia antillarum</i> De Pourtalès, 1874 | 1 | | | |
| * <i>Caryophyllia arnoldi</i> Vaughan, 1900 | | | | 5 |
| * <i>Caryophyllia atlantica</i> (Duncan, 1873) | | 2 | 3 | 4 |
| * <i>Caryophyllia balanacea</i> Zibrowius & Gili, 1990 | | 2 | | |
| * <i>Caryophyllia barbadensis</i> Cairns, 1979 | 1 | | | |
| * <i>Caryophyllia berteriana</i> Duchassaing, 1850 | 1 | | | |
| * <i>Caryophyllia calveri</i> Duncan, 1873 | | 2 | | ? |
| * <i>Caryophyllia capensis</i> Gardiner, 1904 | | | 3 | |
| * <i>Caryophyllia cincticulatus</i> (Alcock, 1898) | | | 3 | |

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

| | | | | |
|---|---|---|---|---|
| * <i>Ceratotrochus franciscana</i> Durham & Barnard, 1952 | | | | 5 |
| * <i>Ceratotrochus magnaghii</i> Cecchini, 1914 | | 2 | | |
| <i>Cladocora arbuscula</i> Lesueur, 1881 | 1 | | | |
| <i>Cladocora caespitosa</i> (Linnaeus, 1758) | | 2 | | |
| * <i>Cladocora debilis</i> M. Edwards & Haime, 1849 | 1 | 2 | | |
| * <i>Cladocora pacifica</i> Cairns, 1991 | | | | 5 |
| * <i>Coenocyathus anthophyllites</i> M. Edwards & Haime, 1848 | | 2 | | |
| * <i>Coenocyathus bowersi</i> Vaughan, 1906 | | | | 5 |
| * <i>Coenocyathus brooki</i> Cairns, 1995 | | | 4 | |
| * <i>Coenocyathus cylindricus</i> M. Edwards & Haime, 1848 | | 2 | | |
| * <i>Coenocyathus goreaui</i> Wells, 1972 | 1 | | | |
| * <i>Coenocyathus parvulus</i> (Cairns, 1979) | 1 | | | |
| * <i>Coenosmilia arbuscula</i> De Pourtalès, 1874 | 1 | 2 | ? | |
| * <i>Coenosmilia inordinata</i> Cairns, 1984 | | | 4 | |
| * <i>Colangia immersa</i> De Pourtalès, 1871 | 1 | | | |
| * <i>Colangia moseleyi</i> (Faustino, 1927) | | | 4 | |
| * <i>Concentrotheca laevigata</i> (De Pourtalès, 1871) | 1 | 2 | | |
| * <i>Concentrotheca vaughani</i> Cairns, 1991 | | | | 5 |
| * <i>Confluphyllia juncta</i> Cairns & Zibrowius, 1997 | | | 4 | |
| * <i>Conotrochus asymmetros</i> Cairns, 1999 | | | 4 | |
| * <i>Conotrochus brunneus</i> (Moseley, 1881) | | | 3 | 4 |
| * <i>Conotrochus funicolumna</i> (Alcock, 1902) | | | 3 | 4 |
| * <i>Crispatotrochus cornu</i> (Moseley, 1881) | | ? | | 4 |
| * <i>Crispatotrochus curvatus</i> Cairns, 1995 | | | | 4 |
| * <i>Crispatotrochus foxi</i> (Durham & Barnard, 1952) | | | | 5 |
| * <i>Crispatotrochus galapagensis</i> Cairns, 1991 | | | | 5 |
| * <i>Crispatotrochus inornatus</i> Tenison-Woods, 1878 | | | 3 | 4 |
| * <i>Crispatotrochus irregularis</i> (Cairns, 1982) | | | | 6 |
| * <i>Crispatotrochus niinoi</i> (Yabe & Eguchi, 1942) | | | | 4 |
| * <i>Crispatotrochus rubescens</i> (Moseley, 1881) | | | | 4 |
| * <i>Crispatotrochus rugosus</i> Cairns, 1995 | | | 3 | 4 |
| * <i>Crispatotrochus squiresi</i> (Cairns, 1979) | 1 | | | |
| * <i>Crispatotrochus woodsi</i> (Wells, 1964) | | | | 4 |
| * <i>Dactylotrochus cervicornis</i> (Moseley, 1881) | | | | 4 |
| * <i>Dasmosmilia lymani</i> (De Pourtalès, 1871) | 1 | 2 | | 4 |
| * <i>Dasmosmilia valida</i> (Marenzeller, 1907) | | | 3 | |
| * <i>Dasmosmilia variegata</i> (De Pourtalès, 1871) | 1 | 2 | 3 | |
| * <i>Deltocyathus agassizi</i> De Pourtalès, 1867 | 1 | | | |
| * <i>Deltocyathus andamanicus</i> Alcock, 1898 | | | 3 | 4 |
| * <i>Deltocyathus calcar</i> De Pourtalès, 1874 | 1 | | | |
| * <i>Deltocyathus cameratus</i> Cairns, 1999 | | | | 4 |
| * <i>Deltocyathus corrugatus</i> Cairns, 1999 | | | | 4 |
| * <i>Deltocyathus crassiseptum</i> Cairns, 1999 | | | | 4 |
| * <i>Deltocyathus eccentricus</i> Cairns, 1979 | 1 | 2 | | |
| * <i>Deltocyathus halianthus</i> (Lindström, 1877) | 1 | | | |
| * <i>Deltocyathus heteroclitus</i> Wells, 1984 | | | | 4 |
| * <i>Deltocyathus italicus</i> (Michelotti, 1838) | 1 | 2 | | |
| * <i>Deltocyathus magnificus</i> Moseley, 1876 | | | 3 | 4 |
| * <i>Deltocyathus moseleyi</i> Cairns, 1979 | 1 | 2 | | |
| * <i>Deltocyathus murrayi</i> Gardiner & Waugh, 1938 | | | 3 | |
| * <i>Deltocyathus ornatus</i> 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 | | | | | |
| *Goniocarella 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 |
| *Lochmaetrotalus gardineri Cairns, 1999 | | | | | 4 | |
| *Lochmaetrotalus oculatus Alcock, 1902 | | | | | 4 | |
| *Lophelia pertusa (Linnaeus, 1758) | 1 | 2 | 3 | 4 | 5 | 6 |
| Montigyrina kenti Matthai, 1928 | | | 3 | | | |
| Nemenzophyllum 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 montereiensis 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 cincticulatus (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 | |

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

Dendrophylliidae

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

| | | | | |
|--|---|---|---|---|
| * <i>Balanophyllia generatrix</i> Cairns & Zibrowius, 1997 | | 3 | 4 | |
| * <i>Balanophyllia gigas</i> Moseley, 1881 | | 3 | 4 | |
| * <i>Balanophyllia hadros</i> Cairns, 1979 | 1 | | | |
| * <i>Balanophyllia imperialis</i> Kent, 1871 | | 3 | 4 | |
| * <i>Balanophyllia iwayamaensis</i> Abe, 1938 | | | 4 | |
| * <i>Balanophyllia laysanensis</i> Vaughan, 1907 | | | 4 | |
| * <i>Balanophyllia malouensis</i> Squires, 1961 | | | | 6 |
| * <i>Balanophyllia palifera</i> De Pourtalès, 1878 | 1 | | | |
| * <i>Balanophyllia parallela</i> (Semper, 1872) | | | 4 | |
| * <i>Balanophyllia parvula</i> Moseley, 1881 | | | 4 | |
| * <i>Balanophyllia pittieri</i> Vaughan, 1919 | 1 | | | |
| * <i>Balanophyllia ponderosa</i> van der Horst, 1926 | | 3 | 4 | |
| * <i>Balanophyllia profundicella</i> Gardiner, 1899 | | | 4 | |
| * <i>Balanophyllia rediviva</i> Moseley, 1881 | | | 4 | |
| * <i>Balanophyllia regalis</i> Alcock, 1893 | | 3 | | |
| * <i>Balanophyllia regia</i> Gosse, 1860 | 2 | | | |
| * <i>Balanophyllia scabra</i> Alcock, 1893 | | 3 | | |
| * <i>Balanophyllia serrata</i> Cairns & Zibrowius, 1997 | | | 4 | |
| * <i>Balanophyllia stimpsonii</i> Verrill, 1865 | | 3 | 4 | |
| * <i>Balanophyllia tenuis</i> van der Horst, 1922 | | | 4 | |
| * <i>Balanophyllia teres</i> Cairns, 1994 | | | 4 | |
| * <i>Balanophyllia thalassae</i> Zibrowius, 1980 | 2 | | | |
| * <i>Balanophyllia tropobanae</i> Bourne, 1905 | | 3 | | |
| * <i>Balanophyllia wellsi</i> Cairns, 1977 | 1 | | | |
| * <i>Balanophyllia yongei</i> Crossland, 1952 | | | 4 | |
| * <i>Bathypammia falloscoialis</i> Squires, 1959 | 1 | | | |
| * <i>Bathypammia tintinnabulum</i> (De Pourtalès, 1868) | 1 | | | |
| * <i>Cladopsammia echinata</i> Cairns, 1984 | | | 4 | |
| * <i>Cladopsammia eguchii</i> (Wells, 1982) | | | 4 | 5 |
| * <i>Cladopsammia gracilis</i> (M. Edwards & Haime, 1848) | | | 4 | 5 |
| * <i>Cladopsammia manuelensis</i> (Chevalier, 1966) | 1 | 2 | | |
| * <i>Cladopsammia rolandi</i> Lacaze-Duthiers, 1897 | | 2 | | |
| * <i>Cladopsammia willeyi</i> (Gardiner, 1900) | | | 4 | |
| * <i>Dendrophyllia aculeata</i> Latypov, 1990 | | | 4 | |
| * <i>Dendrophyllia alcocki</i> (Wells, 1954) | | | 3 | 4 |
| * <i>Dendrophyllia alternata</i> De Pourtalès, 1880 | 1 | 2 | | |
| * <i>Dendrophyllia arbuscula</i> van der Horst, 1922 | | 3 | 4 | |
| * <i>Dendrophyllia boschmai</i> boschmai van der Horst, 1926 | | 3 | 4 | |
| * <i>D. boschmai cyathelioides</i> Yabe & Eguchi, 1965 | | | 4 | |
| * <i>Dendrophyllia californica</i> Durham, 1947 | | | | 5 |
| * <i>Dendrophyllia cladonia</i> van der Horst, 1927 | | 3 | | |
| * <i>Dendrophyllia cornigera</i> (Lamarck, 1816) | 2 | | | |
| * <i>Dendrophyllia cribrosa</i> M. Edwards & Haime, 1851 | | ? | 4 | |
| * <i>Dendrophyllia dilatata</i> van der Horst, 1927 | | 3 | | |
| * <i>Dendrophyllia florulenta</i> Alcock, 1902 | | | 4 | |
| * <i>Dendrophyllia ijimai</i> Yabe & Eguchi, 1934 | | 3 | 4 | |
| * <i>Dendrophyllia incisa</i> (Crossland, 1952) | | | 4 | |
| * <i>Dendrophyllia indica</i> Pillai, 1967 | | 3 | | |
| * <i>Dendrophyllia johnsoni</i> Cairns, 1991 | | | | 5 |
| * <i>Dendrophyllia laboreli</i> Zibrowius & Brito, 1984 | 2 | | | |
| * <i>Dendrophyllia minuscula</i> 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 | |
| *Enallopssammia profunda (De Pourtalès, 1867) | 1 | | | | |
| *Enallopssammia pusilla (Alcock, 1902) | | | 3 | 4 | |
| *Enallopssammia rostrata (De Pourtalès, 1878) | 1 | 2 | 3 | 4 | 5 |
| *Endopachys bulbosa Cairns & Zibrowius, 1997 | | | 3 | 4 | 6 |
| *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 eupsmoides (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 | | | 3 | | 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 | 4 | 5 |
| *Tubastraea coccinea Lesson, 1829 | 1 | 2 | 3 | 4 | 5 |
| *Tubastraea diaphana (Dana, 1846) | | | 3 | 4 | |
| *Tubastraea faulkneri Wells, 1982 | | | | 4 | 5 |

| | | | |
|--|---|---|---|
| *Tubastraea floreana Wells, 1982 | | | 5 |
| *Tubastraea micranthus (Ehrenberg, 1834) | 3 | 4 | |
| *Tubastraea tagusensis Wells, 1982 | | | 5 |
| Turbinaria bifrons Brueggemann, 1877 | 3 | 4 | |
| Turbinaria conspicua Bernard, 1896 | 3 | | |
| Turbinaria crater (Pallas, 1766) | 3 | 4 | |
| Turbinaria frondens (Dana, 1846) | 3 | | |
| Turbinaria heronensis Wells, 1958 | 3 | 4 | |
| Turbinaria irregularis Bernard, 1896 | 3 | 4 | |
| Turbinaria mesenterina (Lamarck, 1816) | 3 | 4 | |
| Turbinaria patula (Dana, 1846) | 3 | 4 | |
| Turbinaria peltata (Esper, 1794) | 3 | 4 | |
| Turbinaria radicalis Bernard, 1896 | 3 | 4 | |
| Turbinaria reniformis Bernard, 1896 | 3 | 4 | |
| Turbinaria stellulata (Lamarck, 1816) | 3 | 4 | |

Faviidae

| | | | |
|---|---|---|---|
| Astreosmilia connata Ortmann, 1892 | 3 | | |
| Australogyra zelli Veron, Pichon & Wijsman-Best, 1977 | 3 | 4 | |
| Barababattoia amicorum (M. Edwards & Haime, 1850) | 3 | 4 | |
| Barababattoia laddi (Wells, 1954) | | | 4 |
| Barababattoia mirabilis Yabe & Sugiyama, 1941 | | | 4 |
| Caulastrea curvata Wijsman-Best, 1972 | 3 | 4 | |
| Caulastrea echinulata (M. Edwards & Haime, 1849) | 3 | 4 | |
| Caulastrea furcata Dana, 1846 | 3 | 4 | |
| Caulastrea tumida Matthai, 1928 | 3 | 4 | |
| Colpophyllia amaranthus (O. F. Müller, 1775) | 1 | | |
| Colpophyllia breviserialis M. Edwards & Haime, 1849 | 1 | | |
| Colpophyllia natans (Houttuyn, 1772) | 1 | | |
| Cyphastrea agassizi (Vaughan, 1907) | | 3 | 4 |
| Cyphastrea chalcidicum (Forskål, 1775) | | 3 | 4 |
| Cyphastrea decadia Moll & Best, 1984 | | | 4 |
| Cyphastrea japonica Yabe & Sugiyama, 1932 | | | 4 |
| Cyphastrea microphthalma (Lamarck, 1816) | | 3 | 4 |
| Cyphastrea ocellina (Dana, 1846) | | 3 | 4 |
| Cyphastrea serailia (Forskål, 1775) | | 3 | 4 |
| Diploastrea heliopora (Lamarck, 1816) | | 3 | 4 |
| Diploria clivosa (Ellis & Solander, 1786) | 1 | | |
| Diploria labyrinthiformis (Linnaeus, 1758) | 1 | | |
| Diploria strigosa (Dana, 1846) | 1 | | |
| Echinopora ashmorensis Veron, 1990 | | 3 | 4 |
| Echinopora forskaliana (M. Edwards & Haime, 1850) | | 3 | |
| Echinopora fruticulosa Klunzinger, 1879 | | 3 | 4 |
| Echinopora gemmacea (Lamarck, 1816) | | 3 | 4 |
| Echinopora hirsutissima M. Edwards & Haime, 1849 | | 3 | 4 |
| Echinopora horrida Dana, 1846 | | 3 | |
| Echinopora lamellosa (Esper, 1795) | | 3 | 4 |
| Echinopora mammiformis (Nemenzo, 1959) | | 3 | 4 |
| Echinopora pacificus Veron, 1990 | | 3 | 4 |
| Erythrostrea flabellata Pichon, Scheer & Pillai, 1983 | | 3 | |
| Favia danae Verrill, 1872 | | | 4 |

| | | | | |
|--|---|---|---|---|
| <i>Favia favus</i> (Forskål, 1775) | | | 3 | 4 |
| <i>Favia fragum</i> (Esper, 1795) | 1 | 2 | | |
| <i>Favia gravida</i> Verrill, 1868 | 1 | 2 | | |
| <i>Favia helianthoides</i> Wells, 1954 | | | 3 | 4 |
| <i>Favia laxa</i> (Klunzinger, 1879) | | | 3 | 4 |
| <i>Favia leptophylla</i> Verrill, 1868 | | 1 | | |
| <i>Favia lizardensis</i> Veron, Pichon & Wijsman-Best, 1977 | | | 3 | 4 |
| <i>Favia maritima</i> (Nemenzo, 1971) | | | 3 | 4 |
| <i>Favia matthaii</i> Vaughan, 1918 | | | 3 | 4 |
| <i>Favia maxima</i> Veron, Pichon & Wijsman-Best, 1977 | | | 3 | 4 |
| <i>Favia pallida</i> (Dana, 1846) | | | 3 | 4 |
| <i>Favia rotumana</i> (Gardiner, 1899) | | | 3 | 4 |
| <i>Favia rotundata</i> (Veron, Pichon & Wijsman-Best, 1977) | | | 3 | 4 |
| <i>Favia speciosa</i> (Dana, 1846) | | | 3 | 4 |
| <i>Favia stelligera</i> (Dana, 1846) | | | 3 | 4 |
| <i>Favia veroni</i> Moll & Best, 1984 | | | | 4 |
| <i>Favia wisseli</i> Scheer & Pillai, 1983 | | | 3 | |
| <i>Favites abdita</i> (Ellis & Solander, 1786) | | | 3 | 4 |
| <i>Favites chinensis</i> (Verrill, 1866) | | | 3 | 4 |
| <i>Favites complanata</i> (Ehrenberg, 1834) | | | 3 | 4 |
| <i>Favites flexuosa</i> (Dana, 1846) | | | 3 | 4 |
| <i>Favites halicora</i> (Ehrenberg, 1834) | | | 3 | 4 |
| <i>Favites pentagona</i> (Esper, 1794) | | | 3 | 4 |
| <i>Favites peresi</i> Faure & Pichon, 1978 | | | 3 | 4 |
| <i>Favites russelli</i> (Wells, 1954) | | | 3 | 4 |
| <i>Favites stylifera</i> Yabe & Sugiyama, 1937 | | | | 4 |
| <i>Goniastrea aspera</i> (Verrill, 1865) | | | 3 | 4 |
| <i>Goniastrea australensis</i> (M. Edwards & Haime, 1857) | | | 3 | 4 |
| <i>Goniastrea deformis</i> Veron, 1990 | | | | 4 |
| <i>Goniastrea edwardsi</i> Chevalier, 1971 | | | 3 | 4 |
| <i>Goniastrea favulus</i> (Dana, 1846) | | | 3 | 4 |
| <i>Goniastrea palauensis</i> (Yabe, Sugiyama & Eguchi, 1936) | | | 3 | 4 |
| <i>Goniastrea pectinata</i> (Ehrenberg, 1834) | | | 3 | 4 |
| <i>Goniastrea retiformis</i> (Lamarck, 1816) | | | 3 | 4 |
| <i>Leptastrea bewickensis</i> Veron, Pichon & Wijsman-Best, 1977 | | | 3 | 4 |
| <i>Leptastrea bottae</i> (M. Edwards & Haime, 1849) | | | 3 | 4 |
| <i>Leptastrea inaequalis</i> Klunzinger, 1879 | | | 3 | 4 |
| <i>Leptastrea pruinosa</i> Crossland, 1952 | | | 3 | 4 |
| <i>Leptastrea purpurea</i> (Dana, 1846) | | | 3 | 4 |
| <i>Leptastrea transversa</i> Klunzinger, 1879 | | | 3 | 4 |
| <i>Leptoria irregularis</i> Veron, 1990 | | | 3 | 4 |
| <i>Leptoria phrygia</i> (Ellis & Solander, 1786) | | | 3 | 4 |
| <i>Manicina areolata</i> (Linnaeus, 1758) | 1 | | | |
| <i>Montastraea annularis</i> (Ellis & Solander, 1786) | 1 | | | |
| <i>Montastraea annuligera</i> (M. Edwards & Haime, 1849) | | | 3 | 4 |
| <i>Montastraea cavernosa</i> Linnaeus, 1767 | 1 | 2 | | |
| <i>Montastraea curta</i> (Dana, 1846) | | | 3 | 4 |
| <i>Montastraea faveolata</i> (Ellis & Solander, 1786) | 1 | | | |
| <i>Montastraea franksi</i> (Gregory, 1895) | 1 | | | |
| <i>Montastraea magnstellata</i> Chevalier, 1971 | | | 3 | 4 |
| <i>Montastraea multipunctata</i> Hodgson, 1985 | | | 3 | 4 |

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

Flabellidae

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

| | | | | | |
|--|---|---|---|---|---|
| * <i>Flabellum marcus</i> Keller, 1974 | | | | 4 | |
| * <i>Flabellum marenzelleri</i> Cairns, 1989 | | | 3 | 4 | |
| * <i>Flabellum messum</i> Alcock, 1902 | | | 3 | 4 | |
| * <i>Flabellum moseleyi</i> De Pourtalès, 1880 | 1 | | | ? | |
| * <i>Flabellum ongulense</i> Eguchi, 1965 | | | | | 6 |
| * <i>Flabellum patens</i> Moseley, 1881 | | | | 4 | |
| * <i>Flabellum pavoninum</i> Lesson, 1831 | | | 3 | 4 | |
| * <i>Flabellum politum</i> Cairns, 1989 | | | 3 | 4 | |
| * <i>Flabellum sexcostatum</i> Cairns, 1989 | | | | 4 | |
| * <i>Flabellum sibogae</i> Gardiner, 1904 | | | 3 | | |
| * <i>Flabellum thouarsii</i> M. Edwards & Haime, 1848 | 1 | | | | 6 |
| * <i>Flabellum transversale</i> transversale Moseley, 1881 | | | | 4 | |
| * <i>F. transversale conicum</i> Yabe & Eguchi, 1942 | | | | 4 | |
| * <i>F. transversale triangulare</i> Eguchi, 1965 | | | | 4 | |
| * <i>Flabellum tuthilli</i> Hoffmeister, 1933 | | | 3 | | |
| * <i>Flabellum vaughani</i> Cairns, 1984 | | | | 4 | |
| * <i>Javania antarctica</i> (Gravier, 1914) | | | | | 6 |
| * <i>Javania borealis</i> Cairns, 1994 | | | | | 5 |
| * <i>Javania cailleti</i> (Duchassaing & Michelotti, 1864) | 1 | 2 | | 4 | 5 |
| * <i>Javania californica</i> Cairns, 1994 | | | | | 5 |
| * <i>Javania exserta</i> Cairns, 1999 | | | | 4 | |
| * <i>Javania fusca</i> (Vaughan, 1907) | | | | 4 | |
| * <i>Javania insignis</i> Duncan, 1876 | | | 3 | 4 | |
| * <i>Javania lamprotichum</i> Moseley, 1880 | | | 3 | 4 | |
| * <i>Javania pseudoalabastra</i> Zibrowius, 1974 | 1 | 2 | | | |
| * <i>Monomyces pygmaea</i> (Risso, 1826) | | | 2 | | |
| * <i>Monomyces rubrum</i> (Quoy & Gaimard, 1833) | | | | 4 | |
| * <i>Placotrochides frustum</i> Cairns, 1979 | 1 | 2 | | | |
| * <i>Placotrochides scaphula</i> Alcock, 1902 | | | 3 | 4 | |
| * <i>Placotrochus laevis</i> M. Edwards & Haime, 1848 | | | 3 | 4 | |
| * <i>Placotrochus pedicellatus</i> Tenison-Woods, 1879 | | | | 4 | |
| * <i>Polymyces fragilis</i> (De Pourtalès, 1868) | 1 | | | | |
| * <i>Polymyces montereyensis</i> (Durham, 1947) | | | | | 5 |
| * <i>Polymyces wellsi</i> Cairns, 1991 | 1 | | 3 | 4 | 5 |
| * <i>Rhizotrochus flabelliformis</i> Cairns, 1989 | | | | 4 | |
| * <i>Rhizotrochus levidensis</i> Gardiner, 1899 | | | | 4 | |
| * <i>Rhizotrochus niinoi</i> Yabe & Eguchi, 1942 | | | | 4 | |
| * <i>Rhizotrochus tuberculatus</i> (Tenison-Woods, 1879) | | | 3 | | |
| * <i>Rhizotrochus typus</i> M. Edwards & Haime, 1848 | | | 3 | 4 | |
| * <i>Truncatoflabellum aculeatum</i> (M. Edwards & Haime, 1848) | | | 3 | 4 | |
| * <i>Truncatoflabellum angiostomum</i> (Folkeson, 1919) | | | 3 | | |
| * <i>Truncatoflabellum angustum</i> Cairns & Zibrowius, 1997 | | | | 4 | |
| * <i>Truncatoflabellum arcuatum</i> Cairns, 1995 | | | | 4 | |
| * <i>Truncatoflabellum australiensis</i> Cairns, 1998 | | | 3 | | |
| * <i>Truncatoflabellum candeanum</i> (M. Edwards & Haime, 1848) | | | | 4 | |
| * <i>Truncatoflabellum carinatum</i> Cairns, 1989 | | | | 4 | |
| * <i>Truncatoflabellum crassum</i> (M. Edwards & Haime, 1848) | | | | 4 | |
| * <i>Truncatoflabellum cumingii</i> (M. Edwards & Haime, 1848) | | | | 4 | |
| * <i>Truncatoflabellum dens</i> (Alcock, 1902) | | | | 4 | |
| * <i>Truncatoflabellum formosum</i> Cairns, 1989 | | | 3 | 4 | |
| * <i>Truncatoflabellum gardineri</i> 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 martensi (Studer, 1878) | | | 4 | | | |
| *Truncatoflabellum mortensenii 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 vigintifarum 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 turbinoliodes 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 | | | |

| | | | |
|--|---|---|---|
| <i>Fungia costulata</i> Ortmann, 1889 | 3 | 4 | |
| <i>Fungia curvata</i> Hoeksema, 1989 | 3 | 4 | 5 |
| <i>Fungia cyclolites</i> Lamarck, 1816 | 3 | 4 | |
| <i>Fungia distorta</i> Michelin, 1842 | 3 | 4 | 5 |
| <i>Fungia fragilis</i> (Alcock, 1893) | 3 | 4 | |
| <i>Fungia fralinae</i> Nemenzo, 1955 | 3 | 4 | |
| <i>Fungia fungites</i> (Linnaeus, 1758) | 3 | 4 | |
| <i>Fungia granulosa</i> Klunzinger, 1879 | 3 | 4 | |
| <i>Fungia gravis</i> Nemenzo, 1955 | 3 | 4 | |
| <i>Fungia hexagonalis</i> M. Edwards & Haime, 1848 | 3 | 4 | |
| <i>Fungia horrida</i> Dana, 1846 | 3 | 4 | |
| <i>Fungia moluccensis</i> Van der Horst, 1919 | 3 | 4 | |
| <i>Fungia paumotensis</i> Stutchbury 1833 | 3 | 4 | |
| <i>Fungia repanda</i> Dana, 1846 | 3 | 4 | |
| <i>Fungia scabra</i> Döderlein, 1901 | 3 | 4 | |
| <i>Fungia scruposa</i> Klunzinger, 1879 | 3 | 4 | |
| <i>Fungia scutaria</i> Lamarck, 1801 | 3 | 4 | |
| <i>Fungia seychellensis</i> Hoeksema, 1993 | 3 | | |
| <i>Fungia sinensis</i> (M. Edwards & Haime, 1851) | 3 | 4 | |
| <i>Fungia somervillei</i> Gardiner, 1909 | 3 | 4 | |
| <i>Fungia spinifer</i> Claereboudt & Hoeksema, 1987 | | 4 | |
| <i>Fungia taiwanensis</i> Hoeksema & Dai, 1991 | | 4 | |
| <i>Fungia tenuis</i> Dana, 1846 | 3 | 4 | |
| <i>Fungia vaughani</i> Boschma, 1923 | 3 | 4 | |
| <i>Halomitra clavator</i> Hoeksema, 1989 | 3 | 4 | |
| <i>Halomitra pileus</i> (Linnaeus, 1758) | 3 | 4 | |
| <i>Heliofungia actiniformis</i> (Quoy & Gaimard, 1833) | 3 | 4 | |
| <i>Herpolitha limax</i> (Esper, 1797) | 3 | 4 | |
| <i>Lithophyllum mokai</i> Hoeksema, 1989 | 3 | 4 | |
| <i>Lithophyllum undulatum</i> Rehberg, 1892 | 3 | 4 | |
| <i>Podabacia crustacea</i> (Pallas, 1766) | 3 | 4 | |
| <i>Podabacia motuporensis</i> Veron, 1990 | | 4 | |
| <i>Polyphyllia novaehiberniae</i> (Lesson, 1831) | | 4 | |
| <i>Polyphyllia talpina</i> (Lamarck, 1801) | 3 | 4 | |
| <i>Sandalolitha dentata</i> Quelch, 1884 | 3 | 4 | |
| <i>Sandalolitha robusta</i> (Quelch, 1886) | 3 | 4 | |
| <i>Zoopilus echinatus</i> Dana, 1846 | 3 | 4 | |

Gardineriidae

| | | | |
|---|---|---|---|
| * <i>Gardineria hawaiiensis</i> Vaughan, 1907 | | 3 | 4 |
| * <i>Gardineria minor</i> Wells, 1973 | 1 | | |
| * <i>Gardineria paradoxa</i> (De Pourtalès, 1868) | 1 | | 4 |
| * <i>Gardineria philippinensis</i> Cairns, 1989 | | 3 | 4 |
| * <i>Gardineria simplex</i> (De Pourtalès, 1878) | 1 | | |

Guyniidae

| | | | | |
|--|---|---|---|---|
| * <i>Guynia annulata</i> Duncan, 1872 | 1 | 2 | 3 | 4 |
| * <i>Pedicellocyathus keyesi</i> Cairns, 1995 | | | | 4 |
| * <i>Pourtalocyathus hispidus</i> (De Pourtalès, 1878) | 1 | | | |
| * <i>Schizocyathus fissilis</i> De Pourtalès, 1874 | 1 | 2 | | |
| * <i>Stenocyathus vermiciformis</i> (De Pourtalès, 1868) | 1 | 2 | 3 | 4 |
| | | | | 6 |

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

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

Oculinidae

| | | | | | |
|--|---|---|---|---|---|
| <i>Acrhelia horrescens</i> (Dana, 1846) | | 3 | 4 | | |
| * <i>Archohelia rediviva</i> Wells & Alderslade, 1979 | | | 4 | | |
| * <i>Bathelia candida</i> Moseley, 1881 | 1 | | | | 6 |
| * <i>Cyathelia axillaris</i> (Ellis & Solander, 1786) | | 3 | 4 | | |
| <i>Galaxealta</i> Nemenzo, 1980 | | | 4 | | |
| <i>Galaxeaaestreatae</i> (Lamarck, 1816) | | 3 | 4 | | |
| <i>Galaxeafascicularis</i> (Linnaeus, 1767) | | 3 | 4 | | |
| <i>Galaxeapaucisepta</i> Claereboudt, 1990 | | | 4 | | |
| * <i>Madrepora arbuscula</i> (Moseley, 1881) | | | 4 | | |
| * <i>Madrepora carolina</i> (De Pourtalès, 1871) | 1 | | | | |
| * <i>Madrepora kauaiensis</i> Vaughan, 1907 | | | 4 | | |
| * <i>Madrepora minutiseptum</i> Cairns & Zibrowius, 1997 | | | 4 | | |
| * <i>Madrepora oculata</i> Linnaeus, 1758 | 1 | 2 | 3 | 4 | 5 |
| | | | | | 6 |

| | | | | |
|--|---|---|---|---|
| * <i>Madrepora porcellana</i> Moseley, 1881 | | | | 4 |
| <i>Oculina arbuscula</i> L. Agassiz, 1864 | 1 | | | |
| + <i>Oculina diffusa</i> Lamarck, 1816 | 1 | | | |
| <i>Oculina patagonica</i> De Angelis, 1908 | ? | 2 | | |
| * <i>Oculina profunda</i> Cairns, 1991 | | | | 5 |
| <i>Oculina robusta</i> De Pourtalès, 1871 | 1 | | | |
| + <i>Oculina tenella</i> De Pourtalès, 1871 | 1 | | | |
| <i>Oculina valenciennesi</i> M. Edwards & Haime, 1850 | 1 | | | |
| + <i>Oculina varicosa</i> Lesueur, 1821 | 1 | | | |
| * <i>Oculina virgosa</i> Squires, 1958 | | | | 4 |
| <i>Schizoculina fissipara</i> (M. Edwards & Haime, 1850) | 2 | | | |
| * <i>Sclerhelia hirtella</i> (Pallas, 1766) | 2 | | | |
| <i>Simplastrea vesicularis</i> Umbgrove, 1940 | | | 3 | |

Pectiniidae

| | | | | |
|--|---|---|---|--|
| <i>Echinophyllia aspera</i> (Ellis & Solander, 1786) | 3 | 4 | | |
| <i>Echinophyllia echinata</i> (Saville-Kent, 1871) | 3 | 4 | | |
| <i>Echinophyllia echinoporoides</i> Veron & Pichon, 1979 | 3 | 4 | | |
| <i>Echinophyllia maxima</i> Moll & Best, 1984 | | | 4 | |
| <i>Echinophyllia nishihirai</i> Veron, 1990 | | | 4 | |
| <i>Echinophyllia orpheensis</i> Veron & Pichon, 1979 | 3 | 4 | | |
| <i>Echinophyllia patula</i> (Hodgson & Ross, 1981) | 3 | 4 | | |
| <i>Echinophyllia tosaensis</i> Yabe & Eguchi, 1935 | 3 | 4 | | |
| <i>Mycedium elephantotus</i> (Pallas, 1766) | 3 | 4 | | |
| <i>Mycedium robokaki</i> Moll & Best, 1984 | | | 4 | |
| <i>Oxypora crassispinosa</i> Nemenzo, 1980 | | | 4 | |
| <i>Oxypora glabra</i> Nemenzo, 1959 | 3 | 4 | | |
| <i>Oxypora lacera</i> (Verrill, 1864) | 3 | 4 | | |
| <i>Pectinia alicornis</i> (Saville-Kent, 1871) | 3 | 4 | | |
| <i>Pectinia elongata</i> Rehberg, 1892 | 3 | 4 | | |
| <i>Pectinia lactuca</i> (Pallas, 1766) | 3 | 4 | | |
| <i>Pectinia paeonia</i> (Dana, 1846) | 3 | 4 | | |
| <i>Pectinia teres</i> Nemenzo, 1981 | 3 | 4 | | |
| <i>Physophyllia ayleni</i> (Wells, 1934) | | | 4 | |

Pocilloporidae

| | | | | |
|--|---|---|---|---|
| * <i>Madracis asanoi</i> Yabe & Sugiyama, 1936 | | | | 4 |
| + <i>Madracis asperula</i> M. Edwards & Haime, 1849 | 1 | 2 | | |
| * <i>Madracis brueggemanni</i> (Ridley, 1881) | 1 | | | |
| <i>Madracis decactis</i> (Lyman, 1859) | 1 | 2 | | |
| <i>Madracis formosa</i> Wells, 1973 | 1 | | | |
| * <i>Madracis hellana</i> M. Edwards & Haime, 1850 | | | 3 | |
| * <i>Madracis interjecta</i> Marenzeller, 1907 | | | 3 | |
| * <i>Madracis kauaiensis</i> Vaughan, 1907 | | | ? | 4 |
| <i>Madracis kirbyi</i> Veron & Pichon, 1976 | | | 3 | 4 |
| <i>Madracis mirabilis</i> <i>sensu</i> Wells, 1973 | 1 | | | |
| * <i>Madracis myriaster</i> (M. Edwards & Haime, 1849) | 1 | | | |
| + <i>Madracis pharensis</i> (Heller, 1868) | 1 | 2 | ? | ? |
| * <i>Madracis profunda</i> Zibrowius, 1980 | | 2 | | |
| <i>Madracis senaria</i> Wells, 1974 | 1 | | | |
| * <i>Madracis singularis</i> Rehberg, 1892 | | | 4 | |

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

Poritidae

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

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

Rhizangiidae

| | | | |
|--|---|---|---|
| * <i>Astrangia atrata</i> (Dennant, 1906) | 3 | 4 | |
| * <i>Astrangia browni</i> Palmer, 1928 | | | 5 |
| * <i>Astrangia californica</i> Durham & Barnard, 1952 | | | 5 |
| * <i>Astrangia conferta</i> Verrill, 1870 | | | 5 |
| * <i>Astrangia costata</i> Verrill, 1866 | | | 5 |
| * <i>Astrangia dentata</i> Verrill, 1866 | | | 5 |
| * <i>Astrangia equatorialis</i> Durham & Barnard, 1952 | | | 5 |
| * <i>Astrangia haimei</i> Verrill, 1866 | | | 5 |
| * <i>Astrangia howardi</i> 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 | | | |
| *Astrangia solitaria (Lesueur, 1817) | 1 | | | 6 |
| *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 | | |

| | | | | |
|--|---|---|---|---|
| <i>Siderastrea glynni</i> Budd & Guzman, 1994 | | | | 5 |
| <i>Siderastrea radians</i> (Pallas, 1766) | 1 | 2 | 3 | 4 |
| <i>Siderastrea savignyana</i> M. Edwards & Haime, 1850 | | | | 4 |
| <i>Siderastrea siderea</i> (Ellis & Solander, 1786) | 1 | | | |
| Trachyphylliidae | | | | |
| <i>Trachyphyllia geoffroyi</i> (Audouin, 1826) | | | 3 | 4 |
| Turbinoliidae | | | | |
| * <i>Alatotrochus rubescens</i> (Moseley, 1876) | | | 3 | 4 |
| * <i>Australocyathus vincentinus</i> (Dennant, 1904) | | | 3 | |
| * <i>Conocyathus gracilis</i> Cairns, 1998 | | | | 4 |
| * <i>Conocyathus zelandiae</i> Duncan, 1876 | | | 3 | 4 |
| * <i>Cryptotrochus brevipalpus</i> Cairns, 1999 | | | | 4 |
| * <i>Cryptotrochus carolinensis</i> Cairns, 1988 | 1 | | | |
| * <i>Cryptotrochus javanus</i> Cairns, 1988 | | | | 4 |
| * <i>Cyathotrochus herdmani</i> Bourne, 1905 | | | 3 | |
| * <i>Cyathotrochus nascornatus</i> Gardiner & Waugh, 1938 | | | 3 | |
| * <i>Cyathotrochus pileus</i> (Alcock, 1902) | | | 3 | 4 |
| * <i>Deltocyathoides orientalis</i> (Duncan, 1876) | | | 3 | 4 |
| * <i>Deltocyathoides stimpsonii</i> (De Pourtalès, 1871) | 1 | 2 | | |
| * <i>Dunocyathus parasiticus</i> Tenison-Woods, 1878 | | | 3 | 4 |
| * <i>Endocyathopora laticostata</i> Cairns, 1989 | | | | 4 |
| * <i>Foveolocyathus alternans</i> (Cairns & Parker, 1992) | | | 3 | 4 |
| * <i>Foveolocyathus verconis</i> Dennant, 1904 | | | 3 | |
| * <i>Holcotrochus crenulatus</i> Dennant, 1904 | | | 3 | |
| * <i>Holcotrochus scriptus</i> Dennant, 1902 | | | 3 | 4 |
| * <i>Idiotrochus emaciatus</i> Duncan, 1865 | | | 3 | |
| * <i>Idiotrochus kikutii</i> (Yabe & Eguchi, 1941) | | | 3 | 4 |
| * <i>Kionotrochus suteri</i> Dennant, 1906 | | | | 4 |
| * <i>Notocyathus conicus</i> (Alcock, 1902) | | | 3 | 4 |
| * <i>Notocyathus venustus</i> (Alcock, 1902) | | | 3 | 4 |
| * <i>Peponocyathus dawsoni</i> Cairns, 1995 | | | | 4 |
| * <i>Peponocyathus folliculus</i> (De Pourtalès, 1868) | 1 | 2 | | 4 |
| * <i>Peponocyathus minimus</i> (Yabe & Eguchi, 1937) | | | | 4 |
| * <i>Platytrochus compressus</i> (Tenison-Woods, 1878) | | | | 4 |
| * <i>Platytrochus hastatus</i> Dennant, 1902 | | | 3 | |
| * <i>Platytrochus laevigatus</i> Cairns & Parker, 1992 | | | 3 | |
| * <i>Platytrochus parisepta</i> Cairns & Parker, 1992 | | | 3 | |
| * <i>Pleotrochus venustus</i> (Alcock, 1902) | | | | 4 |
| * <i>Pleotrochus zibrowii</i> Cairns, 1997 | | | | 4 |
| * <i>Pseudocyathoceras avis</i> (Durham & Barnard, 1952) | | | | 5 |
| * <i>Sphenotrochus andrewianus</i> M. Edwards & Haime, 1848 | | 2 | | |
| * <i>Sphenotrochus aurantiacus</i> Marenzeller, 1904 | | | 3 | |
| * <i>Sphenotrochus auritus</i> De Pourtalès, 1874 | 1 | | | |
| * <i>Sphenotrochus evexicostatus</i> Cairns in Cairns & Keller, 1993 | | | 3 | |
| * <i>Sphenotrochus excavatus</i> Tenison-Woods, 1878 | | | | 4 |
| * <i>Sphenotrochus gardineri</i> Squires, 1961 | | | | 6 |
| * <i>Sphenotrochus gilchristi</i> Gardiner, 1904 | | | 3 | |
| * <i>Sphenotrochus hancocki</i> Durham & Barnard, 1952 | | | 4 | 5 |
| * <i>Sphenotrochus imbricaticostatus</i> Cairns in Cairns & Keller, 1993 | | | 3 | |

| | | |
|--|---|---|
| * <i>Phenotrochus ralpheae</i> Squires, 1964 | | 4 |
| * <i>Phenotrochus squiresi</i> Cairns, 1995 | | 4 |
| * <i>Thrypticotrochus multilobatus</i> Cairns, 1989 | 3 | 4 |
| * <i>Thrypticotrochus petterdi</i> (Dennant, 1906) | | 4 |
| * <i>Trematotrochus corbicula</i> (De Paurtals, 1878) | 1 | |
| * <i>Trematotrochus hedleyi</i> Dennant, 1906 | | 4 |
| * <i>Tropidocyathus labidus</i> Cairns & Zibrowius, 1997 | 3 | 4 |
| * <i>Tropidocyathus lessoni</i> (Michelin, 1842) | 3 | 4 |
| * <i>Turbinolia stephensonii</i> (Wells, 1959) | | 4 |

Incertae sedis

| | |
|--|---|
| * <i>Cylicia inflata</i> De Paurtals, 1878 | 1 |
|--|---|

Class Hydrozoa
Order Capitata

Milleporidae

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

Order Filifera***Hydractiniidae**

| | | | |
|--|---|--|---|
| <i>Hydrocorella africana</i> Stechow, 1921 | 2 | | |
| <i>Janaria mirabilis</i> Stechow, 1921 | | | 5 |
| <i>Polyhydra calcarea</i> (Carter, 1877) | 2 | | |

***Stylasteridae**

| | | | |
|--|--|---|---|
| <i>Adelopora crassilabrum</i> Cairns, 1991 | | 4 | |
| <i>Adelopora fragilis</i> Cairns, 1991 | | 4 | |
| <i>Adelopora moseleyi</i> Cairns, 1991 | | 4 | |
| <i>Adelopora pseudothyron</i> Cairns, 1982 | | | 6 |
| <i>Astyia aspidopora</i> Cairns, 1991 | | 4 | |
| <i>Astyia subviridis</i> (Moseley, 1879) | | 4 | |

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

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

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

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

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