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**CHECK LIST OF RECENT CORAL RECORDS
FROM ALDABRA (INDIAN OCEAN)**

by Brian Roy Rosen

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INTRODUCTION

The purpose of this check list is to bring together all records of corals at Aldabra since no proper listing and bibliography exist at present. I have also taken this opportunity to make several revised identifications and to add some depth data which were not available when I presented my earlier list (Rosen 1971a). It is in fact possible to extract partial depth information for the species in this earlier list from the accompanying account by Barnes *et al.* (1971, especially their Table 2). I have incorporated this information here, and therefore only cited Bellamy's MS figures where they supplement the published information. I should like to express my thanks to Dr. David Bellamy (University of Durham) for allowing me to use this information. I should also like to thank Professor John Wells (Cornell University) for permission to use and refer to a manuscript currently in preparation. Dr. Michel Pichon (James Cook University) and Ms Zena Dinesen (James Cook University) kindly checked the taxonomic list, and Dr. C.G. Adams (British Museum (Natural History)) offered helpful criticisms of the manuscript.

COLLECTIONS AND LITERATURE

Table 1 analyses known coral collections made at Aldabra and related publications. It therefore serves as an Aldabra coral bibliography, and extends the information given in the more general bibliographies by Stoddart (1971), and by Peters & Lionnet (1973).

¹ Department of Palaeontology, British Museum (Natural History), Cromwell Road, London SW7 5BD.

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It is undoubtedly true that published coral records from Aldabra are based on less than half of the total amount of coral material which has actually been collected there. The present check list therefore provides only a partial picture of Aldabra's coral fauna. Large coral collections were evidently made by Voeltzkow and by Fryer (Sladen Expedition), but only a fraction of their material has ever been studied. Stoddart (1971) has given an account of these earlier expeditions. He points out, however, that until the visits by the *Calypso* Expedition (Cousteau, Cherbonnier) and by J.L.B. Smith, both in 1954, no specialist marine collections had been made at Aldabra. Cherbonnier collected corals and other groups, and Smith collected fishes. The Cousteau-Cherbonnier coral collection has recently been identified by Dr. Michel Pichon (James Cook University of North Queensland) and myself, and an account is currently in preparation.

The next most important period of coral collection is the most recent. This is represented by the series of phases of the Royal Society Expedition to Aldabra, and associated visits, reconnaissance, etc., which began in 1966. Only the corals from Phase VI have so far been identified. Drew (1977) recently published a few photographs of the ecological transects carried out by the Phase VI party, and I have included a few identifications that were possible from the photographs.

There remain the Phase I, II and V collections. The corals from the first two of these Phases were collected by Dr. John Taylor (British Museum (Natural History)), and together with the Phase VI corals constitute the most important of the Aldabra coral collections. Unfortunately, only the sight records for corals from Phases I and II have so far been published. For Phase V, Brander *et al.* (1971) mentioned a few names, but presumably a more extensive collection awaits published identifications. A number of identifications of both Fryer's and Taylor's material were incorporated in an account of coral zoogeography in the Indian Ocean (Rosen 1971b, see tables), but in that paper, Aldabra was considered together with neighbouring islands ("Aldabra-Glorioso group") and the information in the tables cannot therefore be quoted here. All but two possible generic records in that list however are covered in the present check list. The opportunity is also taken here to give the register numbers of specimens of Aldabra material but only where authors have previously published them.

Finally it may be noted that of all the coral material from Aldabra, only six genera (Döderlein, 1902, Matthai, 1914, 1928) have ever been fully described.

REMARKS ON THE CORAL FAUNA

Fifty five coral genera* have so far been described or listed.

* subgenera are counted as separate genera in this discussion

Of these, 4 are non-scleractinians, and 4 are ahermatypic scleractinians one of which is only a sight record (*Paracyathus*). Of the remaining 47 (hermatypic) genera, one (*Stylocoeniella*) is only a sight record. In addition to the corals listed here, two further genera may be present at Aldabra: *Merulina* and *Plerogyra*, since they appear in the Aldabra-Glorioso group list (Rosen 1971b). On the other hand, two genera (*Physophyllia* and *Gyrosmlia*) in the present check list require verification by re-examination of the original specimens. The figure of 46 hermatypic coral genera seems therefore to be a reasonable interim working total.

This figure differs from the 50 given by Rosen (1971b, table 1, line b) for the Aldabra-Glorioso group. Three genera in that tabulation required confirmation, two of these being the genera discussed above and also listed here. The third however, *Anomastraea*, has now been re-examined and is in fact a *Coscinaraea* (see check list for details). *Plesioseris* in the earlier lists is now no longer regarded as a distinct subgenus of *Psammocora* (see below), and finally there are the two genera (*Merulina* and *Plerogyra*) known from elsewhere in the Aldabra-Glorioso group but not as yet from Aldabra itself. Four genera may therefore be subtracted from the Aldabra-Glorioso list in order to make it comparable with the present one, and this leaves 46 hermatypic genera, i.e., one fewer than here. This does not however signify the addition of a new generic record as the new name, *Gardineroseris* appears by reason of synonymy changes affecting *Agariciella* and *Leptoseris*.

It is less easy to be precise about numbers of coral species at Aldabra, even if the perennial problem of what constitutes a coral species is disregarded. There are 95 named species here, taking all "cf." forms as distinct. In addition, there are 8 genera for which there are only unnamed species records ("sp.", "spp.", etc.), or no mention of species at all. I have arbitrarily counted all these records as one species for each genus concerned, so bringing the total to 103 species. (Note that in the list which follows, unnamed species records have been treated as genus records. See next section). Of the 103 species reckoned in this way, 6 are non-scleractinians and a further 4 are ahermatypes, leaving a total of 93 hermatypes. Two of these require verification. Sight records include 1 ahermatype, 5 hermatypes.

By comparison with other Indian Ocean reef regions, the above figures suggest that few new scleractinian genera will be added by further work on Aldabra corals, but that many more species (or "species") may well be recorded. On the first point, Rosen (1971b) interpolated only a further 5 genera, 3 of them fungiids, for the Aldabra-Glorioso group. *Verrillofungia*, *Ctenactis*, *Halomitra*, *Alveopora* and *Oulophyllia*. For non-scleractinians, there is a good possibility of more hydrocoral genera and of species, because in various works by Boschma there are species known from nearby islands not as yet recorded from Aldabra.

Because of the Cousteau-Cherbonnier list currently in preparation, it is not useful to discuss zoogeographical aspects here, except perhaps to draw attention to "shrinkage" in the Indian Ocean distribution of *Anomastrea*, following its elimination from Aldabra (see Rosen 1971b, fig.8).

NOTES ON THE PRESENTATION OF THE CORAL RECORDS

The list gives all known scleractinian records, together with the usual coralline reef octocorals and hydrozoans. The corals are set out in Treatise order (Wells 1956) but with the octocorals and hydrocorals at the end.

Square brackets have been used for both species and generic records to indicate names now placed in synonymies and records which are otherwise incorrect for Aldabra. Their current names, where applicable are also given in the appropriate places in the list, and pairs of names affected in this way are cross referenced. For the most part the synonymies of more recent works, where they affect Aldabra records, have been accepted uncritically because the present list is primarily intended as a compilation. Generic names which have been used in the past, but which are now widely regarded as synonyms, are given in square brackets immediately beneath the currently valid names (e.g. *Platygyra* and [*Coeloria*]).

The status of each record can be assumed to be a formal taxonomic treatment (check list, description, etc.) unless additional information is given:

SR - sight record

TC - citation of taxon in a text account, e.g. in diagrams or non-taxonomic tables.

Plate and figure numbers have been given for species only where the coral illustrated is indicated in an author's caption as being from Aldabra.

Specimen numbers are quoted only if authors have published them. Abbreviation used: BM(NH) - British Museum (Natural History), Dept. of Zoology.

Depth data for species follow each author's record and consist only of the actual depths stated by individual authors. No interpolated depth ranges have been given. For generic depth ranges, all the depth records for each genus and its species are brought together, and again, no interpolations are made except in the topmost 5m. Here "surface" records have been taken to be 0m and extended down to the next recorded depth which falls within the range 0-5m. For depths given as "Bellamy MS", see the Introduction.

- A. cf. digitifera* (Dana, 1846)
Price 1971, 166 SR TC surface
- A. cf. diversa* (Brook, 1891) "No.1"
Barnes et al. 1971, 103 TC 9m
Rosen 1971a, 110 Bellamy MS: 2-8m
- A. cf. diversa* (Brook, 1891) "No.2"
Barnes et al. 1971, 103 TC 2m
Rosen 1971a, 110
- A. glochicladus* (Brook, 1893)
Barnes et al. 1971, 101, 102, 107 TC 1-2m
Rosen 1971a, 110
- A. irregularis* (Brook, 1892)
Barnes et al. 1971, 102 TC 1m
Price 1971, 166 SR TC surface
Rosen 1971a, 110
- A. monticulosa* (Brueggemann, 1879)
Barnes et al. 1971, 103 TC 13m
Rosen 1971a, 110 Bellamy MS: surface
- A. palifera* (Lamarck, 1816)
Barnes et al. 1971, 102 TC 1-3, 5-7m
?Drew 1977, pl.1c, 3b (BRR)
Brander et al. 1971, 417, 423, 424 TC less than 5m
(sometimes as "*Acropora A*")
Rosen 1971a, 110 Bellamy MS: 1-8m
Voeltzkow 1902, 565 as *Madrepora palifera* Lamarck
- A. spicifera* (Dana, 1846)
Barnes et al. 1971, 103 TC 1, 5-6, 20, 28m
Rosen 1971a, 110 Bellamy MS: 1-33m
- A. tubicinaria* (Dana, 1846)
Brander et al. 1971, 417, 423, 424, 425 TC less than 5m
(sometimes as "*Acropora B*")
- A. variabilis* (Klunzinger, 1879)
Barnes et al. 1971, 103 TC 15, 28, 33m
Rosen 1971a, 110 Bellamy MS: 13m
7. *Astreopora* Blainville, 1830
Fryer 1911, 411 SR TC Recorded depth range:
3-7m
- Astreopora myriophthalma* (Lamarck, 1816)
Barnes et al. 1971, 101, 102 TC 2-3, 5-6m
Rosen 1971a, 110 Bellamy MS: 3-7m

8. *Montipora* Quoy & Gaimard in Blainville, 1830 Recorded depth range:
 surface to 39m
 Barnes et al. 1971, 97, 103 (as "*Montipora* sp.2")
 TC 28, 35, 39, 43m
 Fryer 1911, 411 TC SR
 Rosen 1971a, 110 (Spp "Nos. 1, 2"). Bellamy MS: 6-39m
 Taylor 1971b, 192 TC SR surface
 ?Drew 1977, pl.2a, 3e (BRR)

Montipora elschneri Vaughan, 1918
 Barnes et al. 1971, 103 TC 11m
 Rosen 1971a, 110 Bellamy MS: 8m

[*Montipora erythraea* von Marenzeller, 1907]
 Barnes et al. 1971, 103 TC 10-12, 20, 22, 27m
 (probably should be *M. cf. erythraea*
 as in Rosen 1971a)

Montipora cf. *erythraea* von Marenzeller, 1907
 Rosen 1971a, 110 Bellamy MS: 8-23m
 (see also *M. erythraea*, Barnes et al.)

Montipora cf. *punctata* Bernard, 1897
 Barnes et al. 1971, p 103 TC 12m
 Rosen 1971a, 110 Bellamy MS: 10m

[*Montipora tuberculosa* (Lamarck, 1816)]
 Barnes et al. 1971, 102 TC 1-3, 5-8, 10, 12m
 (probably should be *M. cf. tuberculosa*
 as in Rosen 1971a)

Montipora cf. *tuberculosa* (Lamarck, 1816)
 Rosen 1971a, 110 Bellamy MS: 1-8m
 (See also *M. tuberculosa*, Barnes et al.)

Montipora verrucosa Lamarck, 1816)
 Barnes et al. 1971, 102 TC 2-3, 5-6, 10, 17m
 Rosen 1971a, 110 Bellamy MS: 3-15m

9. *Pavona* (*Pavona*) Lamarck, 1802 Recorded depth range: 4-27m

Pavona (*P.*) *clivosa* Verrill, 1869
 Rosen 1971a, 110 Bellamy MS: 5m

Pavona (*P.*) *explanulata* (Lamarck, 1816)
 Barnes et al. 103 TC 12m
 Rosen 1971a, 110 Bellamy MS: 4m

- Pavona (P.) frondifera* Lamarck, 1816
Rosen 1971a, 110 Bellamy MS: 7m
- Pavona (P.) gardineri* van der Horst, 1922
Rosen 1971a, 110 Bellamy MS: 23m
- Pavona (P.) cf. minor* Brueggemann, 1879
Rosen 1971a, 110 Bellamy MS: 6m
- Pavona (P.) praetorta* (Dana, 1846)
Rosen 1971a, 110 Bellamy MS: 4m
- Pavona (P.) varians* Verrill, 1864
Barnes et al. 1971, 103 TC 10-12, 18, 27m
Rosen 1971a, 110 Bellamy MS: 8-27m
10. *Pavona (Pseudocolumnastraea)* Yabe & Sugiyama, 1933
Recorded depth range 18, 20m
Barnes et al. 1971, 103 TC 20m
Rosen 1971a, 111 Bellamy MS: 18m
11. *Leptoseris* Edwards & Haime, 1849 Recorded depth range 22, 25m
- Leptoseris columna* Yabe & Sugiyama, 1941
Rosen 1971a, 111 Bellamy MS: 25m
- [*Leptoseris?* *mycetoseroides* Wells, 1954]
Barnes et al. 1971, 97, 103 (as *L? mycetoserioides*
[sic] TC 27,33m
Rosen 1971a, 111
(This species is a synonym of *Agariciella minikoiensis*
Ma, 1937 according to Wells MS (1977)).
- Leptoseris tubulifera* Vaughan, 1907
Rosen 1971a, 111 Bellamy MS: 22m
12. *Agariciella* Ma, 1937 Recorded depth range 27, 33m
- Agariciella minikoiensis* Ma, 1937
Barnes et al. 1971, 97, 103 (as *Leptoseris?*
mycetoserioides [sic]
Wells, 1954). TC 27,33m
Rosen 1971a, 111 (as *L? mycetoseroides*)
(*L? mycetoseroides* Wells 1954 is a synonym of present
species according to Wells MS (1977)).

[*Agariciella ponderosa* (Gardiner 1905)]Barnes *et al.* 1971, 103, 106 TC 28, 33m

Rosen 1971a, 111

(This species is a synonym of *Gardineroseris planulata* (Dana, 1846) according to Scheer & Pillai (1974) and Wells MS (1977)).

- 13.
- Gardineroseris*
- Scheer & Pillai, 1974 Recorded depth range 28-33m

Gardineroseris planulata (Dana, 1846)Barnes *et al.* 1971, 103, 106 (as *Agariciella ponderosa* Gardiner, 1905))

TC 28, 33m Bellamy MS: 28-33m

Rosen 1971a, 111 (as *A. ponderosa* (Gardiner))

(*Agariciella ponderosa* (Gardiner, 1905) is a synonym of present species according to Scheer & Pillai (1974) and Wells MS (1977)).

- 14.
- Pachyseris*
- Edwards & Haime, 1849. Recorded depth range: 15, 18, 20-22m

Pachyseris laevicollis (Dana, 1846)Barnes *et al.* 1971, 97, 103, 106 TC 15, 18, 20-22m

Rosen 1971a, 111

Pachyseris rugosa (Lamarck, 1816)

Rosen 1971a, 111

[*Anomastraea* von Marenzeller, 1901][*Anomastraea* (A.) *irregularis* von Marenzeller, 1901]Barnes *et al.* 1971, 103 TC (with "?") 10-11m

Rosen 1971a, 111

(Subsequent examination by BRR and MP of the particular specimen on which these records are based shows that it is actually *Coscinaraea columna* (Dana, 1846)).

- 15.
- Coscinaraea*
- Edwards & Haime, 1848 Recorded depth range: 9-28, 33m

Barnes *et al.* 1971, 103 (as *C. sp.* No.1) TC 11, 28m

Bellamy MS: 11-27m

Rosen 1971a, 111 (as *C* spp. Nos. 1, 2).

Bellamy MS: 18m

Coscinaraea columna (Dana, 1846)

This MS - after re-determination of the specimen on which previous records of *Anomastrea* (A.) *irregularis* von Marenzeller, 1901 were based (see above). TC 10-11m Bellamy MS: 9m

Coscinaraea monile (Forskål, 1775)

Barnes et al. 1971, 103 TC 11, 28, 33m
Rosen 1971a, 111

16. *Cycloseris* Edwards & Haime, 1849 Recorded depth range: 7, 10-11m

Cycloseris cyclolites (Lamarck, 1816)

Barnes et al. 1971, 103 TC 10-11m
Rosen 1971a, 111 Bellamy MS: 7m

Cycloseris distorta (Michelin, 1843)

Döderlein 1902, 44, 74, pl.3, figs. dd, ee, ff,
pl.5, figs. 3, 3a. (as *Fungia distorta* f. *Cycloseris*).
Voeltzkow 1902, 565 (as *Fungia distorta*).

Fungia Lamarck, 1801

Drew 1977, 3

Recorded depth range: 3-12,
15, 17, 19-20m

[*Fungia distorta* Michelin, 1843]

Voeltzkow 1902, (see *Cycloseris distorta*, above)

[*Fungia distorta* Michelin, 1843 f. *Cycloseris*]

Döderlein 1902 (see *Cycloseris distorta*, above)

[*Fungia fungites* (Linnaeus, 1758) var. *confertifolia* Dana, 1846

Döderlein 1902, 44, 155, pl.23, figs 2, 2a
Voeltzkow 1902, 565

(see *Fungia* (F.) *fungites*, below)

[*Fungia scutaria* Lamarck, 1801 var. *placunaria* Klunzinger, 1879]

Döderlein 1902, 44, 93, 96 (see under *Fungia*
(*Pleuractis*), below)

[*Fungia scutaria* Lamarck, 1801 var. *tenuidens* Quelch, 1886]

Voeltzkow, 1902, 565 (see under *Fungia* (*Pleuractis*)
below)

17. *Fungia* (*Danafungia*) Wells, 1966

Rosen 1971a, 111

Recorded depth range: 19-20m

Bellamy MS: 19-20m

18. *Fungia (Fungia) Lamarck, 1801* Recorded depth range: no information
 Döderlein 1902, 44, 155, pl.23, figs 2, 2a (as *F. fungites* var. *confertifolia*).
 Voeltzkow 1902, 565 (as *F. fungites* var. *confertifolia*)
19. *Fungia (Pleuractis) Verrill, 1864* Recorded depth range: 3-12, 15, 17m
Fungia (Pleuractis) paumotensis Stutchbury, 1833
 Barnes et al. 1971, 102 TC 3, 5, 9, 12, 15m
 Rosen 1971a, 111 Bellamy MS: 3-12m
Fungia (Pleuractis) scutaria Lamarck, 1801
 Barnes et al. 1971, 102 TC 3, 5, 10, 17m
 Döderlein 1902, 44, 93, 96 (as *F. scutaria* var. *placunaria*)
 Rosen 1971a, 111 Bellamy MS: 6-10m
 Voeltzkow 1902, 565 (as *F. scutaria* var. *tenuidens*)
20. *Herpolitha Eschscholtz, 1826* Recorded depth range: 20-23, 27m
Herpolitha limax (Esper, 1797)
 Barnes et al. 1971, 103, 106 TC 21, 27m
 Rosen 1971a, 111 Bellamy MS: 20-23m
21. *Podabacia Edwards & Haime, 1849* Recorded depth range: 18, 22, 27m
 Barnes et al. 1971, 97, 103, 106 TC 22, 27m
 Rosen 1971a, 111 Bellamy MS: 18m
22. *Goniopora Blainville, 1830* Recorded depth range: 1m
Goniopora stokesi Edwards & Haime, 1860
 Rosen & Taylor, 1969 TC 1m
- Porites* Link, 1807 Recorded depth range: surface to 22m
 Brander et al. 1971, 417, 424 TC less than 5m
 Fryer 1911, 410, 411 SR TC
 Ma 1958, 10 TC
 Ma 1959, 33 TC
 Price 1971, 166 SR TC surface
 Taylor 1971b, 181, 186, 188, 190-2, SR TC surface

23. *Porites (Porites) Link, 1807* Recorded depth range: surface
to 22m
- Porites (P.) andrewsi* Vaughan, 1918
Barnes et al. 1971, 101, 102 TC 2, 5-6, 8m
Rosen 1971a, 111 Bellamy MS: 3-8m
- Porites (P.) lichen* Dana, 1846
Barnes et al. 1971, 97, 103, 106 TC 20, 22m
Rosen 1971a, 111 Bellamy MS: 18m
- Porites (P.) lutea* Edwards & Haime, 1851
Porites lutea Edwards & Haime, 1851
Barnes et al. 1971, 102 TC 2-3, 5-7m
Price 1971, 166, 169 SR TC surface
Rosen 1971a, 111 Bellamy MS: 2-7m
Taylor 1971b, 183 SR TC surface
Voeltzkow 1902, 565
- Porites (P.) nigrescens* Dana, 1846
Porites nigrescens Dana, 1846
Barnes et al. 1971, 102 TC 5, 8-9, 11-12, 15, 17-18m
Brander et al. 1971, 423 TC less than 5m
Rosen 1971a, 111 Bellamy MS: 2-22m
Taylor 1971b, 192 SR TC surface
24. *Porites (Synaraea) Verrill, 1864* Recorded depth range: 1m
- Porites (Synaraea) iwayamaensis* Eguchi, 1938
Barnes et al. 1971, 103 TC 1m
Rosen 1971a, 111
25. *Plesiastrea* Edwards & Haime, 1848 Recorded depth range: 27-28,
33m
Barnes et al. 1971, 103, 106 TC 28, 33m
Rosen 1971a, 111 Bellamy MS: 27m
- Plesiastrea versipora* (Lamarck, 1816)
Rosen 1971a, 112 Bellamy MS: 27m
26. *Favia* Oken, 1815 Recorded depth range: surface
to 33m
Barnes et al. 1971, 103 TC 7m
Fryer 1911, 411 SR TC
Price 1971, 150, 166 SR TC surface
Rosen 1971a, 112
Taylor 1971b, 183, 186, SR TC surface

[*Favia acropora* (Linnaeus, 1767)]

Matthai 1914, 102 (1 specimen)

(Matthai's *F. acropora* is a synonym of *F. stelligera* (Dana, 1846); see Vaughan 1918, 101).[*Favia bertholleti* Valenciennes MS]

Ma 1958, 12 TC

Ma 1959, 42 BM(NH) Reg. Nos. 1927.5.12.6,
and 1927.5.12.49 [Matthai's
material] TC

Matthai 1914, 95 pl.24, fig.1 (2 specimens, above)

(Matthai's (and hence Ma's) *F. bertholleti* is a synonym *F. favus* (Forskål, 1775); see Rosen (1968, 343)).*Favia favus* (Forskål, 1775)Rosen 1968, 330 (*F. bertholleti* of Matthai (1914)
BM(NH) Reg. Nos. 1927.5.12.6, and 1927.5.12.49)[*Favia halicora* (Ehrenberg, 1834)]

Matthai 1914, 106 (2 specimens)

(Matthai's *F. halicora* is a synonym of *Favites abdita* (Ellis & Solander, 1786); see Wijsman-Best (1972, 33)).*Favia pallida* (Dana, 1846)Barnes et al. 1971, 102 TC 2,5-6,9,11-12,15,17-18,
20-22,28,33m

Rosen 1971a, 112 Bellamy MS: 2-33m

Favia stelligera (Dana, 1846)

Barnes et al. 1971, 103 TC 9m

Matthai 1914, 102 (as *F. acropora*) (1 specimen)

Rosen 1971a, 112

[*Favia vasta* (Klunzinger 1879)]

Matthai 1914, 108, pl.27 fig.6 (1 specimen)

(Matthai's *F. vasta* is a synonym of *Favites virens* (Dana, 1846); see Vaughan (1918, 111); but see also Chevalier (1971, 229) who regards Matthai's *F. vasta* as *Favites vasta*).27. *Favites* Link, 1807Recorded depth range: surface
to 21m[*Prionastrea* Edwards & Haime 1857]Barnes et al. 1971, 103 (as "*F. sp.*" following a
Favites species, but should probably be *Favia sp.*
as in Rosen 1971a, 112) TC 6m.Fryer 1911, 411 (as *Prionastrea*) SR TC*Favites abdita* (Ellis & Solander, 1786)

Barnes et al. 1971, 102 TC 2-3, 5-8, 10-11, 17m

Matthai 1914, 106 (as *Favia halicora* (Ehrenberg,
1834) (2 specimens)

Rosen 1971a, 112 Bellamy MS: 2-33m

Favites cf. *pentagona* (Esper, 1794)

Barnes et al. 1971, 103 TC 3, 7, 21m

Rosen 1971a, 112 Bellamy MS: 3-21m

Favites virens (Dana, 1846)

[*Favites vasta* (Klunzinger, 1879)]

Matthai 1914, 108, pl.27, fig.6 (as *Favia vasta*
(Klunzinger, 1879. See under *Favia vasta*, above)

(1 specimen).

28. *Goniastrea* Edwards & Haime, 1848 Recorded depth range: surface, 9-33m
Taylor 1971b, 183, 188, 190 SR TC surface

[*Goniastrea incrustans* Duncan, 1889]

Barnes et al. 1971, 97, 103 TC 27, 33m

Rosen 1971a, 112 Bellamy MS: 23-33m

(The specimen on which these records are based was mistakenly
identified. It should be *Goniastrea palauensis* (Yabe &
Sugiyama, 1936)).

Goniastrea palauensis (Yabe & Sugiyama, 1936)

Barnes et al. 1971, 97, 103 (as *G. incrustans*) TC 27, 33m

Rosen 1971a, 112 (as *G. incrustans*) Bellamy MS: 23-33m

Goniastrea pectinata (Ehrenberg, 1834)

Barnes et al. 1971, 102 TC 9-11, 15, 18, 20-22, 27, 33m

Price 1971, 166 SR TC surface

Rosen 1971a, 112 Bellamy MS: 9-33m

Goniastrea retiformis (Lamarck, 1816)

Barnes et al. 1971, 103 TC 11m

Ma 1958, 14

Ma 1959, 48 B.M. (N.H.) Reg. No. 1927.5.4.186

[Matthai's material] TC

Matthai 1914, 118 (2 specimens)

Rosen 1971a, 112 Bellamy MS: 11-19m

29. *Platygyra* Ehrenberg, 1834 Recorded depth range: surface to 33m
[*Coeloria*, Edwards & Haime, 1848]

Fryer 1911, 411 (as *Coeloria*). SR TC

Price 1971, 166 SR TC surface

Platygyra astreiformis (Edwards & Haime, 1849)

Ma 1958, 15 TC

Ma 1959, 53 BM(NH) Reg. No. 1928.4.18.599 "Eldabra"

TC

- Platygyra daedalea* (Ellis & Solander, 1786)
 Ma 1958, 15 TC
 Matthai 1928, 24 (as *Coeloria daedalea*) (2 specimens)
- Platygyra lamellina* Ehrenberg, 1834
 Barnes et al. 1971, 102 TC 2-3, 5-7, 9-10, 12, 15, 17-18,
 20-21, 33m
 Rosen 1971a, 112 Bellamy MS: 2-33m
- [*Platygyra phrygia* (Ellis & Solander, 1786)]
 Matthai 1928, 112 2 specimens
 (Matthai's "*Platygyra*" is actually *Leptoria*; see Crossland
 (1952, 150)).
30. *Leptoria* Edwards & Haime, 1848 Recorded depth range: surface
 [*Platygyra*, Matthai 1928, only] to 12m
 Brander et al. 1971, 417, 423-5 TC less than 5m
 Price 1971, 166 SR TC surface
- Leptoria phrygia* (Ellis & Solander, 1786)
 Barnes et al. 1971, 102 TC 1-2, 5, 9, 12m
 Matthai 1928, 112 (as *Platygyra phrygia* (Ellis &
 Solander, 1786)) (2 specimens)
 Rosen 1971a, 112 Bellamy MS: 2-12m
31. *Hydnophora* Fischer, 1807 Recorded depth range: surface
 to 3m, 15-33m
 Fryer 1911, 411 SR TC
- [*Hydnophora contignatio* (Forskål, 1775)]
 Matthai 1928, 155, pl.46, fig.2 (1 specimen, BM(NH)
 Reg. No. 1928, 3.1.56).
 (*H. contignatio* is a synonym of *H. exesa* (Pallas, 1766); see
 Wijsman-Best, 1972, 51)
- Hydnophora exesa* (Pallas, 1766)
 Barnes et al. 1971, 103 TC ?2, 15, 27-28, 33 (This
 species appears twice in the table on p.103,
 the second time at 2m. Is this second
 record meant to be *H. microconos*?)
 Matthai 1928, 140 (2 specimens)
 Matthai 1928, 155, pl.46, fig.2, (as *H. contignatio*
 (1 specimen, BM(NH) Reg. No. 1928.3.1.56)
 Rosen 1971a, 112 Bellamy MS: 15-33m
- Hydnophora microconos* (Lamarck, 1816)
 ?Barnes et al. 1971, 103 (see under *H. exesa*, above)
 Price 1971, 166 SR TC surface TC 2m
 Rosen 1971a, 112 Bellamy MS: 2-3m

32. *Diploastrea* Matthai, 1914 Recorded depth range: no
information
Diploastrea heliopora (Lamarck, 1816)
Rosen 1971a, 112
33. *Leptastrea* Edwards & Haime, 1848 Recorded depth range: 2-22m
Leptastrea immersa Klunzinger, 1879
Barnes et al. 1971, 103 TC 2m
Rosen 1971a, 112 Bellamy MS: 2-11m
Leptastrea purpurea (Dana, 1846)
Barnes et al. 1971, 102 TC 9, 11-12, 20, 22m
Rosen 1971a, 112 Bellamy MS: 9-22m
34. *Cyphastrea* Edwards & Haime, 1848 Recorded depth range: surface
to 33m
Taylor 1971b, 183, 186, 192 SR TC surface
Cyphastrea chalcidicum (Forskål, 1775)
Barnes et al. 1971, 103 TC 3, 7, 21, 28m
Rosen 1971a, 112 Bellamy MS: 3-33m
35. *Echinopora* Lamarck, 1816 Recorded depth range: 2-39m
Echinopora gemmacea (Lamarck, 1801)
Barnes et al. 1971, 102 TC 2, 5-6, 9, 11, 15, 18,
20-22, 27, 33m
Rosen 1971a, 112 Bellamy MS: 2-39m
36. *Oulangia* Edwards & Haime, 1848 Recorded depth range: 18m
Rosen 1971a, 112 Bellamy MS: 18m
[*Madrepora* Linnaeus, 1758]
Fryer 1911, 410, 411 (this record is almost certainly *Acropora*). SR TC
37. *Galaxea* Oken, 1815 Recorded depth range: surface
to 13m, 15m
Fryer 1911, 411 SR TC
Galaxea fascicularis (Linnaeus, 1767). Recorded depth range:
surface to 13m, 15m
Barnes et al. 1971, 102 TC 2-3, 5, 7, 10, 15m
Matthai 1914, 59 (6 specimens)
Rosen 1971a, 112 Bellamy MS: 2-13m

38. *Blastomussa* Wells 1968 Recorded depth range: 24m
Blastomussa merleti Wells, 1961
 Rosen 1971a, 112 Bellamy MS: 24m
39. *Acanthastrea* Edwards & Haime, 1848 Recorded depth range: surface,
 20-23, 27, 33m
 Fryer 1911, 411 SR TC
 Price 1971, 166 SR TC surface
- Acanthastrea echinata* (Dana, 1846)
 Barnes et al. 1971, 103 TC 21-22, 27, 33
 Rosen 1971a, 112 Bellamy MS: 20-23m
40. *Lobophyllia* Blainville, 1830 Recorded depth range: 5-23,
 27-28, 35, 39, 43m
- Lobophyllia corymbosa* (Forskål, 1775)
 Barnes et al. 1971, 102, TC 5-6, 10, 15, 27m
 Rosen 1971a, 113 Bellamy MS: 5-23m
- Lobophyllia hemprichii* (Ehrenberg, 1834)
 Barnes et al. 1971, 103 TC 21, 27-28, 35, 39, 43m
 Rosen 1971a, 113
41. *Symphyllia* Edwards & Haime, 1848 Recorded depth range: 20-21,
 27m
- Symphyllia nobilis* (Dana, 1846)
 Rosen 1971a, 113 Bellamy MS: 20m
- Symphyllia valenciennesii* Edwards & Haime, 1849
 Barnes et al. 1971, 103, 106 TC 21, 27m
 Rosen 1971a, 113 Bellamy MS: 20m
42. *Echinophyllia* Klunzinger, 1879 Recorded depth range: 18-33m
- Echinophyllia aspera* (Ellis & Solander, 1786)
 Barnes et al. 1971, 103, 106 TC 21, 27m
 Rosen 1971a, 113 Bellamy MS: 18-33m
43. *Mycedium* Oken, 1815 Recorded depth range: 18-33m
- Mycedium tenuicostatum* Verrill, 1901
 Barnes et al. 1971, 103 TC 18, 22, 28m
 Rosen 1971a, 113 Bellamy MS: 18-33m

Mycedium tubifex (Dana, 1846)

Barnes et al. 1971, 103 TC 18,21,28,33m
 Rosen 1971a, 113 Bellamy MS: 18-27m

44. ?*Physophyllia* Duncan, 1884 Recorded depth range: 26m

? *Physophyllia ayleni* Wells, 1934

Rosen 1971a, 113 Bellamy MS: 26m

45. *Pectinia* Oken, 1815 Recorded depth range: 12,18,
 20,26m

Barnes et al. 1971, 103 TC 27m
 Rosen 1971a, 113

Pectinia lactuca (Pallas, 1766)

Barnes et al. 1971, 103 TC 12, 18m
 Rosen 1971a, 113 Bellamy MS: 20m

46. *Paracyathus* Edwards & Haime, 1848 Recorded depth range: surface

Taylor 1971b, 192 SR TC surface

47. *Physogyra* Quelch, 1884 Recorded depth range: 10-28,33m

Barnes et al. 1971, 103 TC 10, 12, 18,20-22,28,33m
 Rosen 1971a, 113 Bellamy MS: 10-28m

48. ?*Gyrosmilium* Edwards & Haime, 1851 Recorded depth range: 15,17-
 33m

? *Gyrosmilium interrupta* (Ehrenberg, 1834)

Barnes et al. 1971, 103 TC 17-18, 27m
 Rosen 1971a, 113 Bellamy MS: 15, 18-33m

49. *Dendrophyllia* Blainville 1830 Recorded depth range: surface
 to 5m

Barnes et al. 1971, 93 106 TC
 Bellamy et al. 1969, 103 SR TC
 Brander et al. 1971, 400 TC less than 5m
 Fryer 1911, 411 SR TC
 Taylor 1971b, 192, 204 SR TC surface

(Some of these records are probably *Tubastrea*)

Dendrophyllia cf. *florulenta* van der Horst 1922

Rosen 1971a, 113 Bellamy MS: surface

[*Dendrophyllia micrantha* (Ehrenberg, 1834)]

Barnes et al. 1971, 94, 97, 103 TC 39, 41-44m
Rosen 1971a, 113 Bellamy MS: surface to 44m +

(This species is now regarded as a *Tubastraea*)

50. *Tubastraea* Lesson, 1834 Recorded depth range: surface
[*Dendrophyllia*, in part] to 44m +

Taylor 1971b, 190, 192 SR TC surface
see also *Dendrophyllia*, above

Tubastraea micrantha (Ehrenberg, 1834)

Barnes et al. 1971, 94, 97, 103 (as *Dendrophyllia micrantha*) TC 39, 41-44m

Rosen 1971a, 113 (as *D. micrantha*), Bellamy MS:
surface to 44m +

51. *Turbinaria* Oken, 1815 Recorded depth range: 20-33m
Barnes et al. 1971, 103 TC 21, 27, 33m
Rosen 1971a, 113 Bellamy MS: 20-33m

52. *Tubipora* Linnaeus, 1758 Recorded depth range: surface
to 1m

Fryer 1911, 410 SR TC

Tubipora musica Linnaeus, 1758

Barnes et al. 1971, 103 TC 1m
Rosen 1971a, 113 Bellamy MS: surface

53. *Heliopora* Blainville, 1830 Recorded depth range: surface
Fryer 1911, 410 SR TC
Stoddart 1967, 17, 18 SR TC (as sediment component)
Stoddart et al. 1971, 50 SR TC (as sediment
component)

Heliopora coerulea (Pallas, 1766)

Rosen 1971a, 113 Bellamy MS: surface
Voeltzkow 1902, 565

54. *Millepora* Linnaeus, 1758 Recorded depth range: surface
to 12m

Brander et al. 1971, 417, 423, 424 TC less than 5m
Drew 1977, pl. 1a, 3a (BRR)
Fryer 1911, 410-412 SR TC
Price 1971, 166, 169 SR TC surface
Taylor 1971b, 192 SR TC surface

[*Millepora* cf. *clavaria* Ehrenberg, 1834]

Voeltzkow 1902, 565

(*M. clavaria* is a synonym of *M. exaesa* Forskål, 1775; see Boschma (1948, 28)).

Millepora exaesa Forskål, 1775

Barnes et al. 1971, 101, 102, 107 TC 3,5-7,9m

Rosen 1971a, 114 Bellamy MS: 2-9m

?Voeltzkow 1902, 565 (as *M. cf. clavaria*).*Millepora platyphylla* Hemprich & Ehrenberg, 1834

Barnes et al. 1971, 102 TC 1-2,5-6,12m

Brander et al. 1971, 423,425 TC less than 5m

Rosen 1971a, 114 Bellamy MS: 1-11m

Taylor 1971b, 183 SR TC surface

55. *Distichopora* Lamarck, 1816Recorded depth range: surface
to 2m*Distichopora fisheri* Broch, 1942

Barnes et al. 1971, 103 TC 2m

Rosen 1971a, 114 (forma *alpha* Wells, 1954)

Bellamy MS: surface

Distichopora violacea (Pallas, 1766)

Rosen 1971a, 114 Bellamy MS: surface

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Table 1

Collections and studies of corals of Aldabra
 Abbreviations: BM(NH)DZ - British Museum (Natural History), Department of Zoology.
 SMEM - Station Marine d'Endoume, Marseille
 UDDB - University of Durham, Department of Botany
 SR - Sight records

The number of identifications is based on those actually listed by individual works, no allowance being made for validity, synonyms, etc. 'Identifications' here includes all levels of taxonomic study.

		COLLECTION/EXPEDITION	Voeltzkow	
		DATE	1895	
		COLLECTION CURRENTLY DEPOSITED AT:-	?	
		COMPLETENESS OF STUDY OF MATERIAL	Identifications presumed incomplete	
		GENERA IDENTIFIED	5	
		SPECIES IDENTIFIED	7	
AUTHORS	STATUS OF IDENTIFICATIONS	GENERA IDENTIFIED	SPECIES IDENTIFIED	
Barnes et al. 1971	Ecological account using names in Rosen 1971a	43	79	
Bellamy et al. 1969	General account. Sight records in text	2	-	
Brander et al. 1971	Ecological account, records in text	7	7	
Döderlein 1902	Monograph on the genus <i>Fungia</i>	1	3	X
Drew 1977	Discussion of transect method. Corals named from plates by BRR in present list	5	1	
Fryer 1911	General account. Sight records in text	17	-	
Ma 1958	Coral growth account based on many regions. Lists of specimens for numerous species	4	5	
Ma 1959		4	4	
Matthai 1914	Monograph of faviid species	3	4	
Matthai 1928	Monograph of meandrine coral species	2	5	
Pichon & Rosen (in prep.)	Check list with remarks			
Price 1971	Ecological account. Sight records in text	12	17	
Rosen 1968	Taxonomic revision of some faviid genera	1	1	
Rosen 1971a	Check list	50	101	
(Rosen 1971b, Table 1, line e)	Generic list for Aldabra-Glorioso group	(53)	-	(X)
Rosen & Taylor 1969	Reproduction in <i>Goniopora</i> , at Aldabra	1	1	
Stoddart & Wright 1967	General account. Sight record in text	1	-	
Stoddart et al. 1971	General account. Sight records in text	1	-	
Taylor 1971	Ecological account. Sight records in text	9	3	
Voeltzkow 1902	Check list, partly after Döderlein 1902	5	7	X

Fryer-Sladen	Cherbonnier - Cousteau	ROYAL SOCIETY EXPEDITION TO ALDABRA				
		Reconnaissance	Phase I	Phase II	Phase V	Phase IV
1908-9	1954	1966	1967	1967	1968	1968-9
BM(NH) DZ	SMEM	?	BM(NH) DZ	BM(NH) DZ	?	BM(NH) DZ UDBB
Identifications of only a small part	Identifications in hand	Identifications not yet made on collected material	Identifications not yet made on collected material except Phase V in part			Identifications complete
12 SR + 8		1 SR	20 SR + 1		7	50
14		-	19 SR + 1		7	101
						X
						X
					X	
						X
X						
X						
X						
X						
X						
	X					
			X			
X						
						X
	(X)		(X)			(X)
			X			
		X				
			X	X		
			X	X		