

TABLE 5  
 FAUNAL AFFINITIES OF THE TROPICAL  
 WESTERN ATLANTIC SCLERACTINIA

	Tropical western Atlantic Ahermatypes (200+ m)		Tropical western Atlantic Ahermatypes (0-200 m)		Western Atlantic Hermatypes	
	Species (90)	Genera (42)	Species (27)	Genera (17)	Species (61)	Genera (26)
Endemic western Atlantic	54(60%)	5(12%)	20(74%)	3(18%)	53(87%)	15(58%)
Amphi-Atlantic	24(27%)	6(14%)	5(18.5%)	1(6%)	8(13%)	2(8%)
Amphi-American	0	2(5%) <sup>2)</sup>	0	0	0	2(8%)
Cosmopolitan in tropical and temperate oceans	6(7%)	12(29%)	1(4%)	8(47%)	0	3(12%)
Circumtropical except for eastern Pacific	5(5%)	10(24%)	0	2(12%)	0	2(8%)
Atlanto-east Pacific	0	0	1(4%)	1(6%)	0	1(4%)
<i>Totals</i>	89 <sup>1)</sup>	35 <sup>3)</sup>	27	15 <sup>4)</sup>	61	25 <sup>5)</sup>

<sup>1)</sup> *Cyathoceras* sp. cf. *C. cornu*, known from western Atlantic and western Pacific, not included.

<sup>2)</sup> *Flabellum* ? *montereyense* Durham, 1947 considered as *Polymyces*; *Ceratotrochus franciscana* Durham & Barnard, 1952 as *Oxysmilia*; *Thecopsammia pourtalesi* Durham & Barnard, 1952 as *Endopsammia*; and *Kionotrochus* ? *avis* Durham & Barnard, 1952 as *Cyathoceras*.

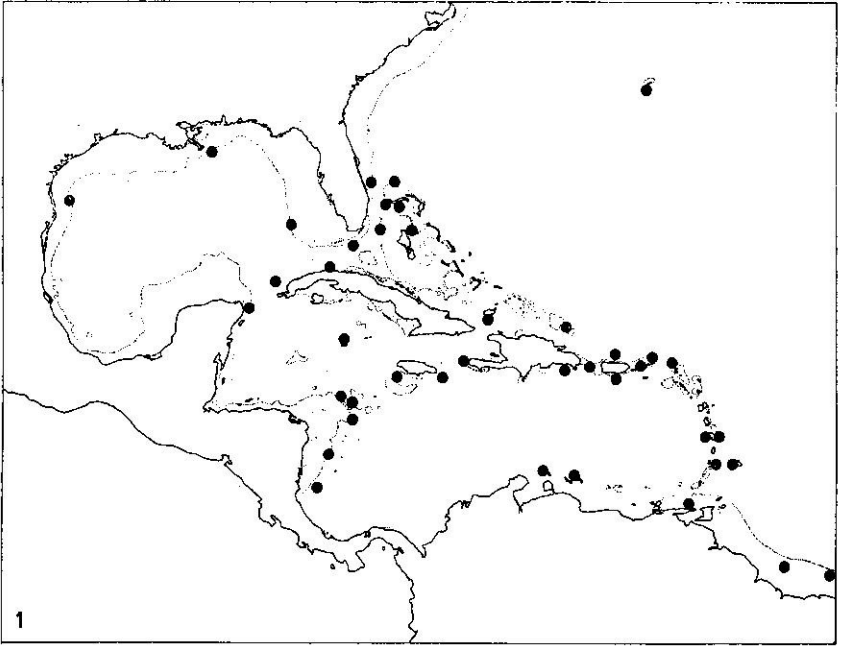
<sup>3)</sup> *Anthemiphyllia*, *Trematotrochus*, and *Gardineria* known from western Atlantic and western Pacific; *Placotrochides* and *Labyrinthocyathus* from both sides of the Atlantic and western Pacific; *Cyathoceras* from both sides of the Pacific and western Atlantic; *Tethocyathus* not considered.

<sup>4)</sup> *Oculina* and *Gardineria* known from western Atlantic and western Pacific.

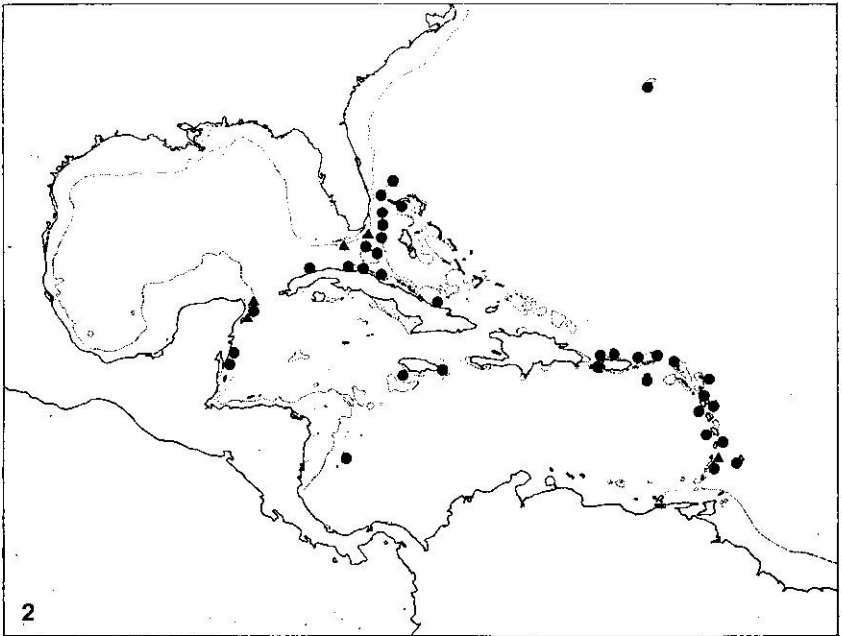
<sup>5)</sup> *Oculina* known from western Atlantic and western Pacific.

#### DISTRIBUTIONAL MAPS

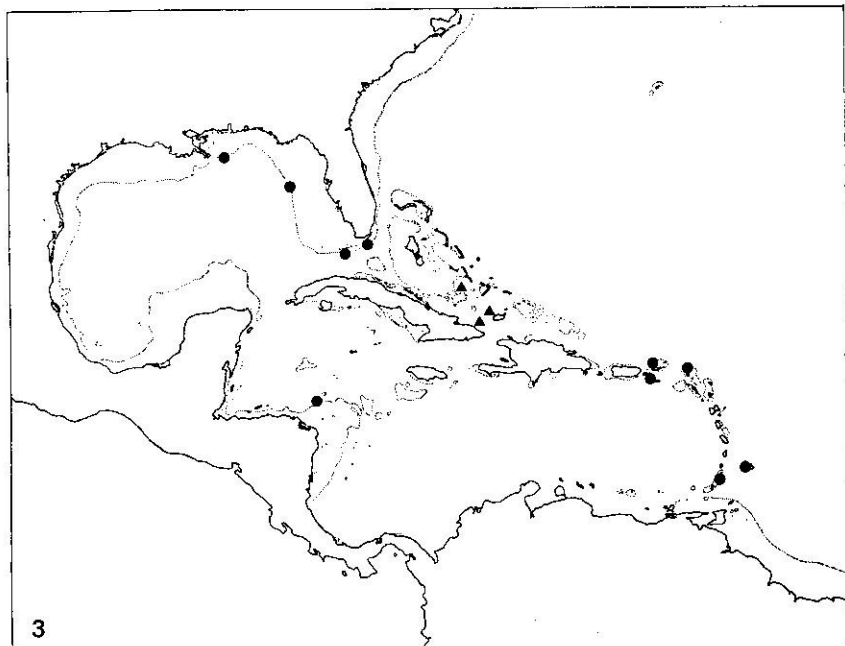
All records, both from the literature and new, are plotted on 60 distributional maps; however, sometimes only a part of the distribution of a species is shown. Records north of Cape Hatteras and south of Surinam, or in other parts of the world oceans, are recorded in the material examined or distribution sections of the individual species accounts. Because of the geographic proximity of many of the stations, one dot may symbolize more than one station.



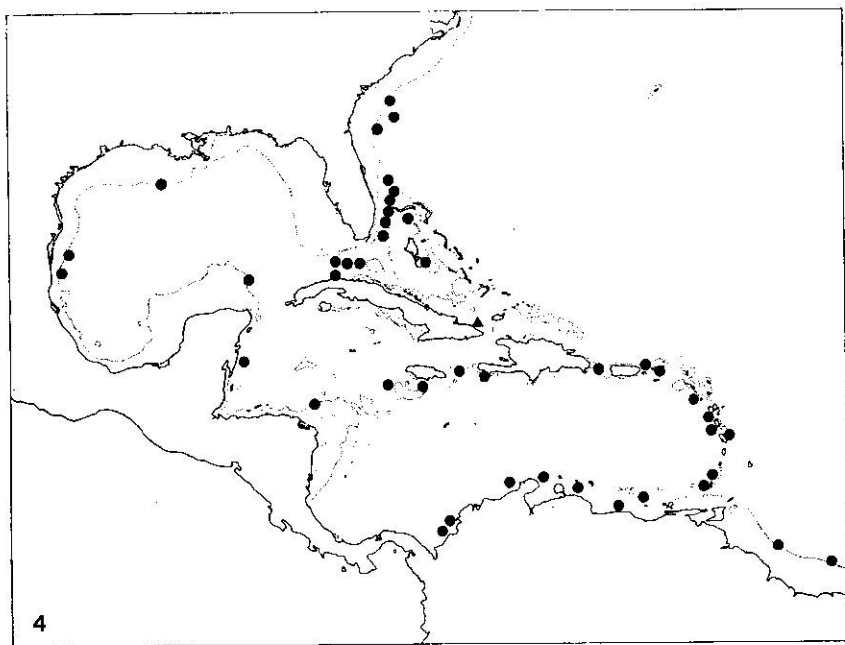
Map 1: Distribution of *Madracis myriaster*.



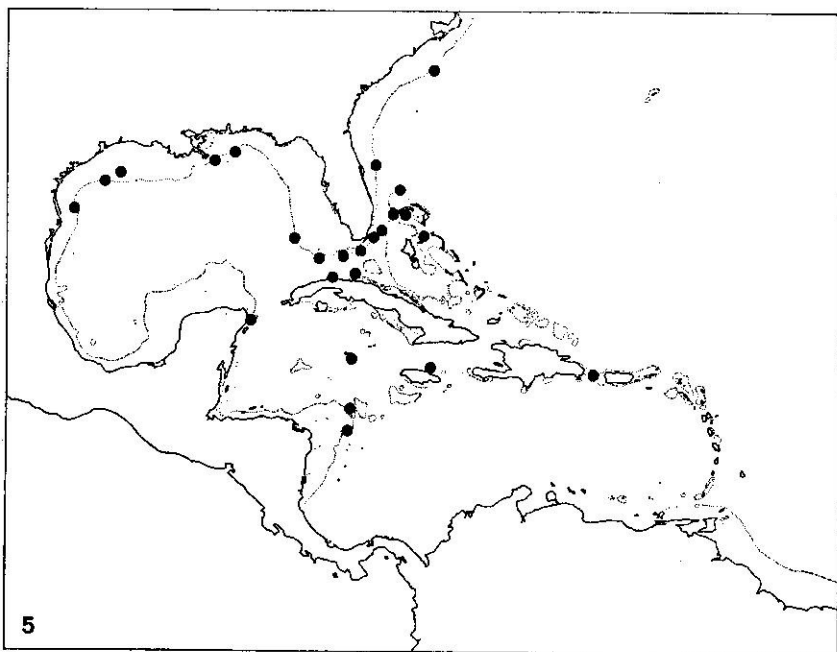
Map 2: Distribution of *Fungiacyathus pusillus* (triangles) and *F. symmetricus* (circles).



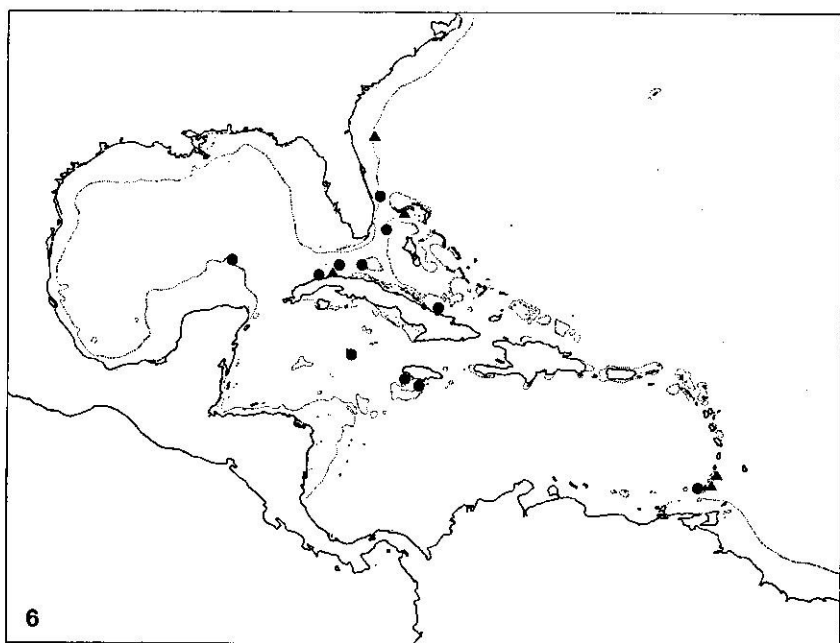
Map 3: Distribution of *Fungiacyathus crispus* (circles) and *F. marenzelleri* (triangles).



Map 4: Distribution of *Leptopenus discus* (triangle) and *Madrepora oculata* (circles).

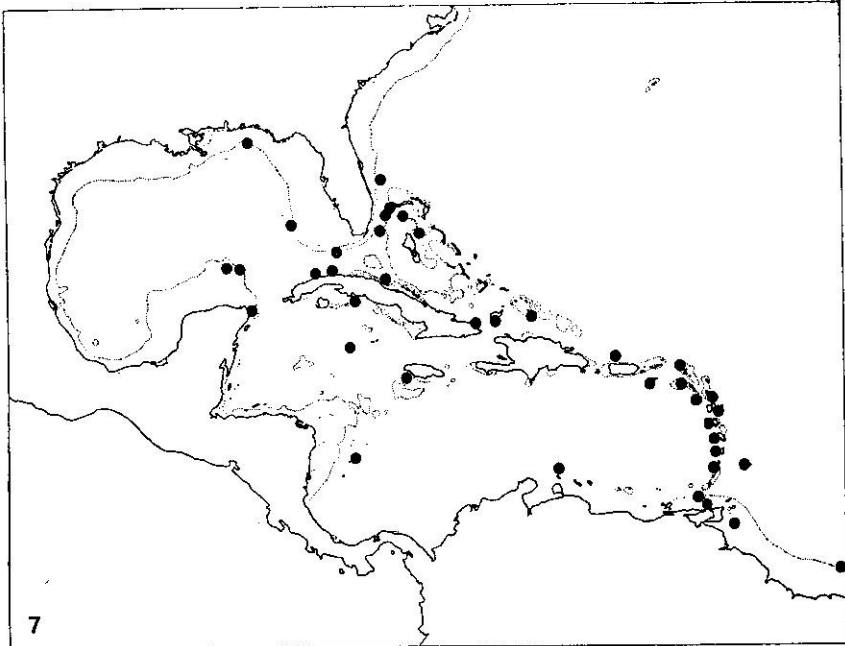


Map 5: Distribution of *Madrepora carolina*.

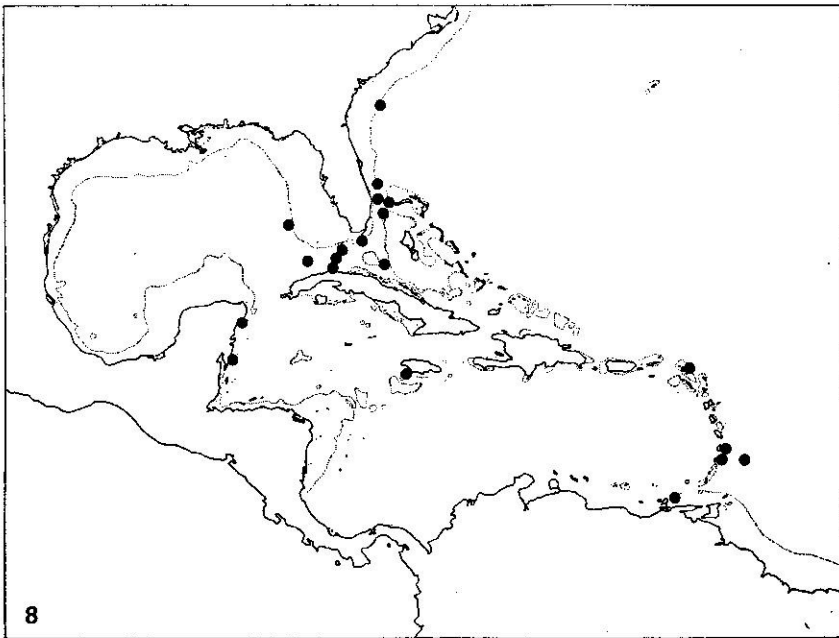


Map 6: Distribution of *Anthemiphyllia patera* (triangles) and *Caryophyllia polygona* (circles).

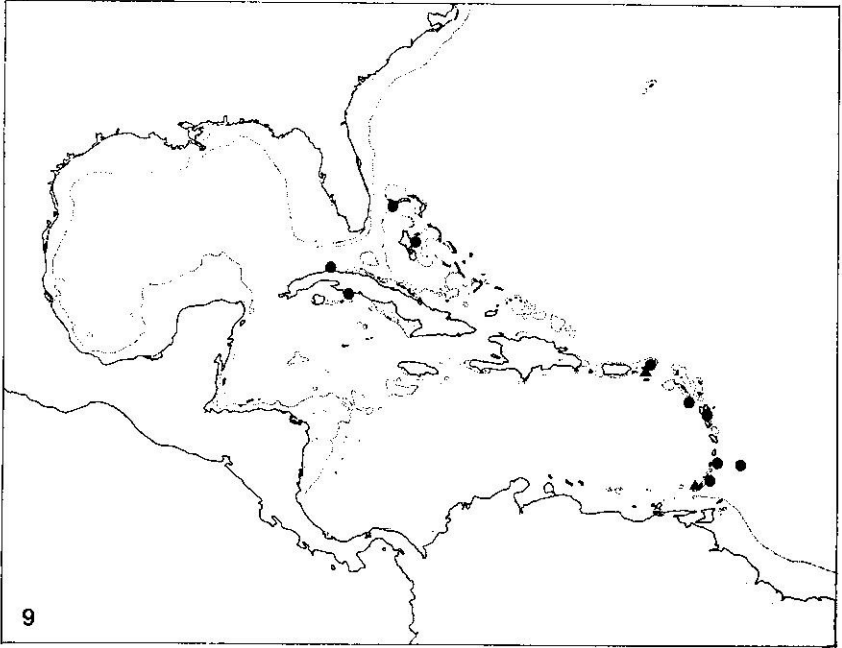




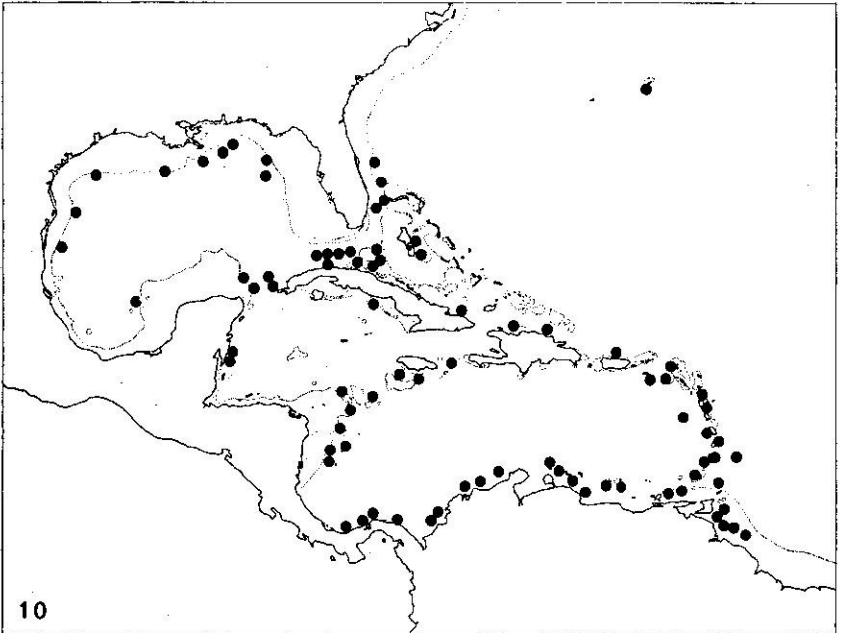
Map 7: Distribution of *Caryophyllia berteriana*.



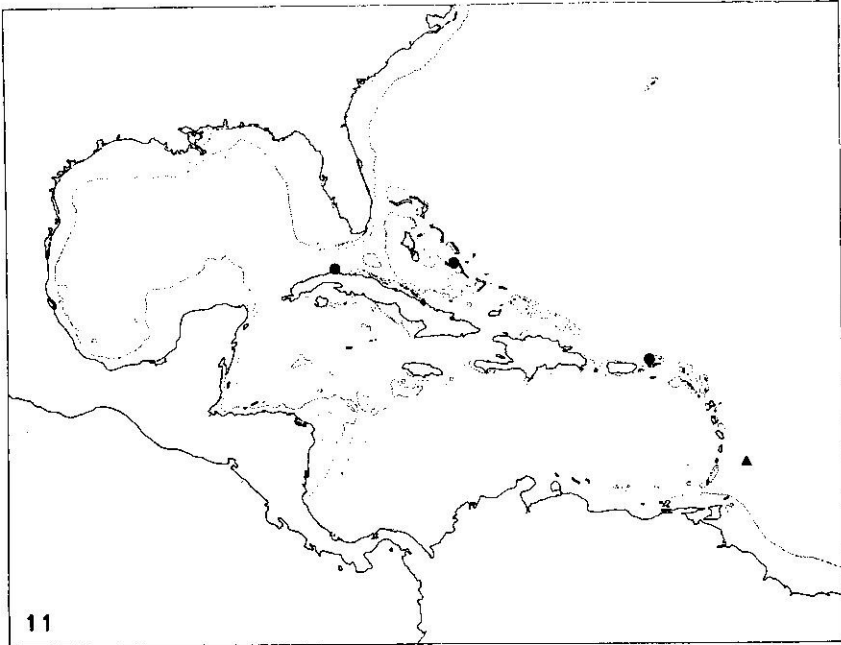
Map 8: Distribution of *Caryophyllia cornuformis*.



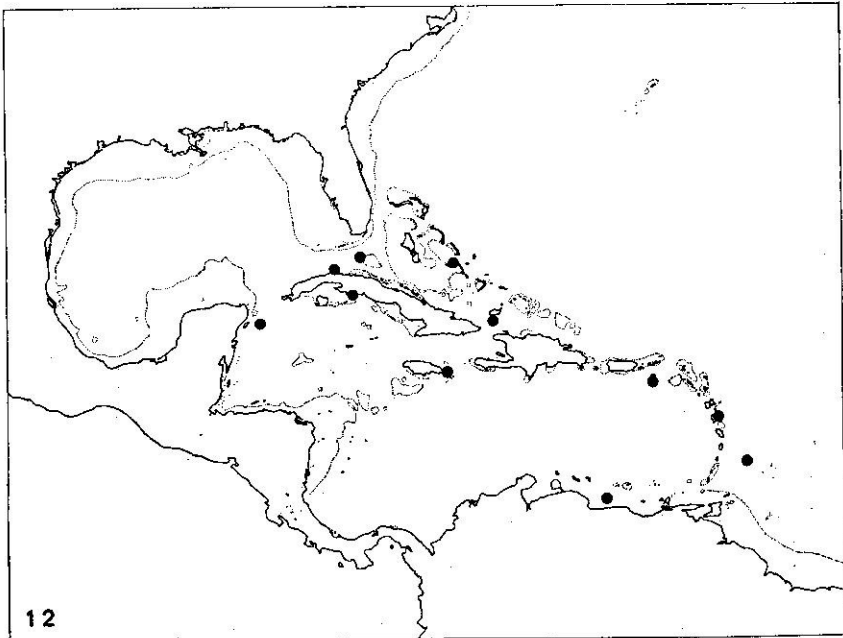
Map 9: Distribution of *Caryophyllia antillarum* (circles) and *C. paucipalata* (triangles).



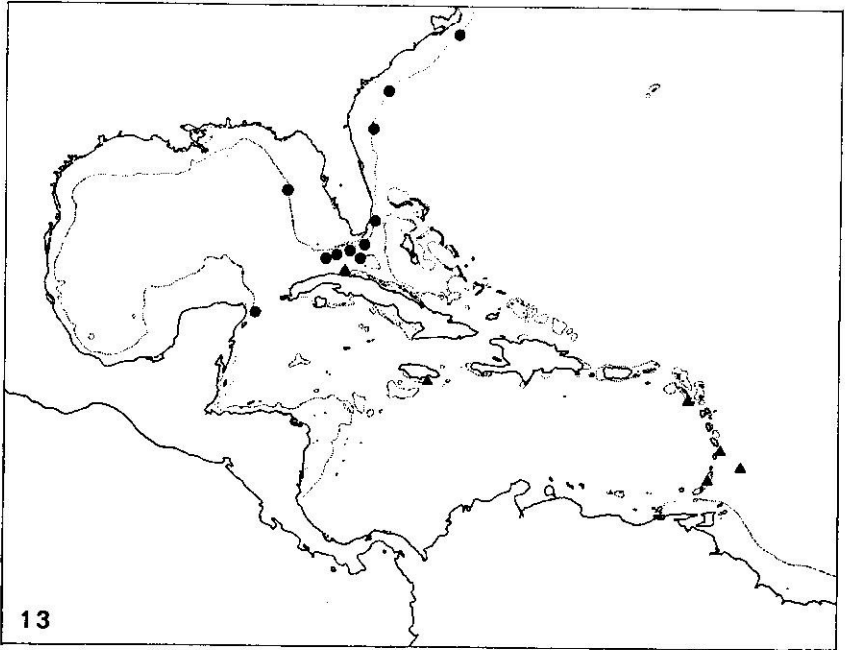
Map 10: Distribution of *Caryophyllia ambrosia caribbeana*.



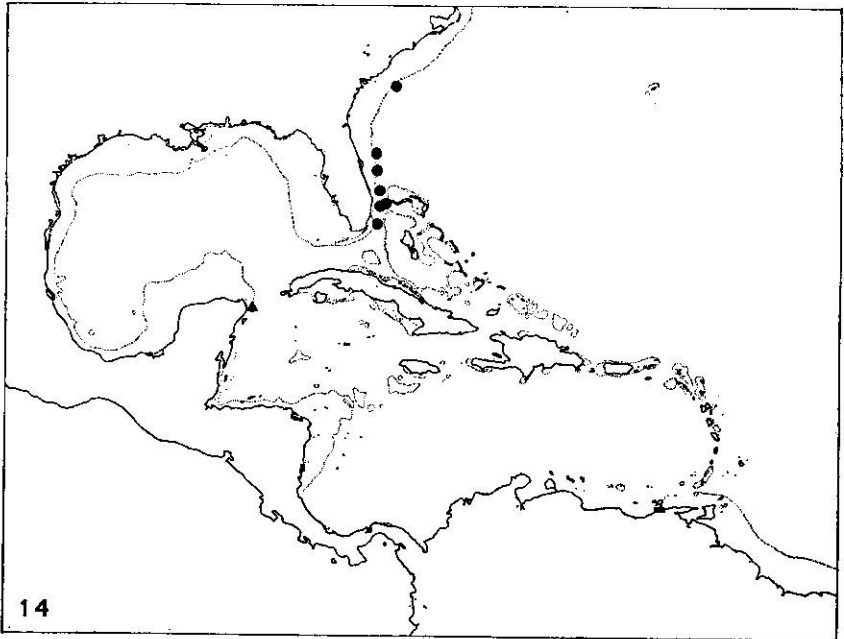
Map 11: Distribution of *Caryophyllia barbadensis* (triangle) and *C. corrugata* (circles).



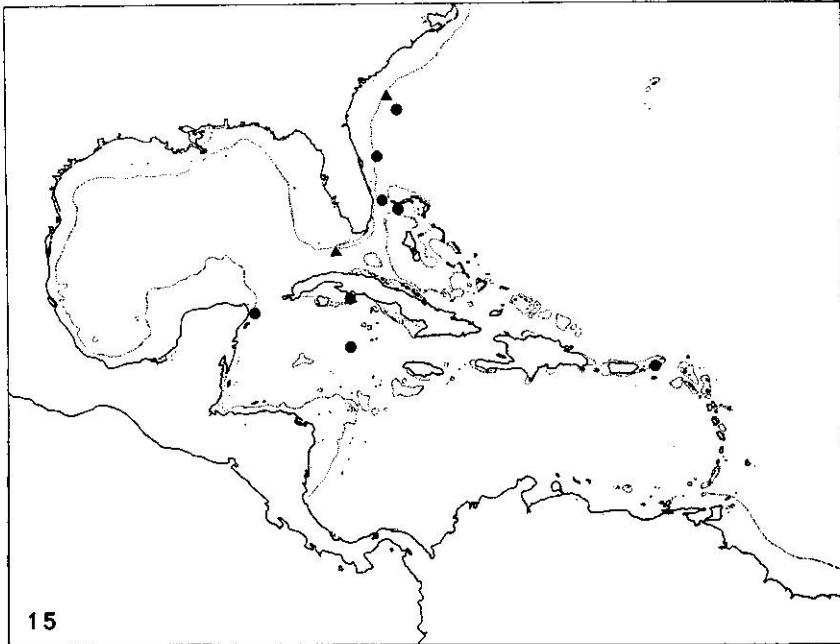
Map 12: Distribution of *Caryophyllia parvula*.



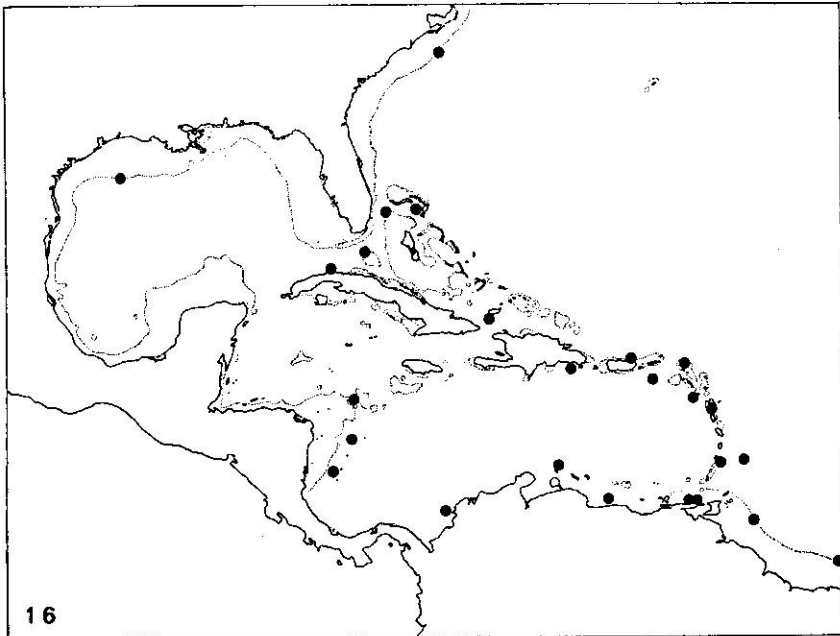
Map 13: Distribution of *Caryophyllia zopyros* (triangles) and *Concentrotheca laevigata* (circles).



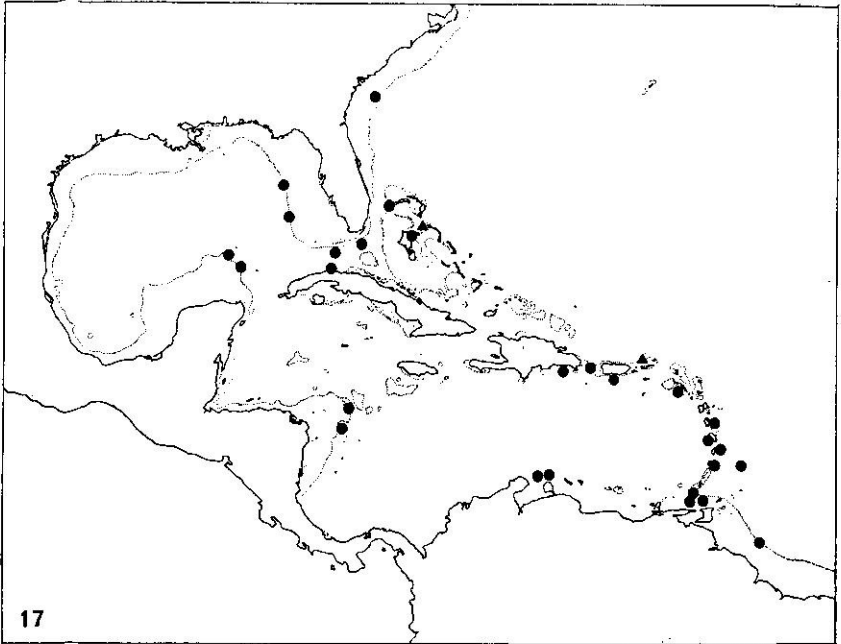
Map 14: Distribution of *Cyathoceras* sp. cf. *C. cornu* (triangle) and *Cyathoceras squiresi* (circles).



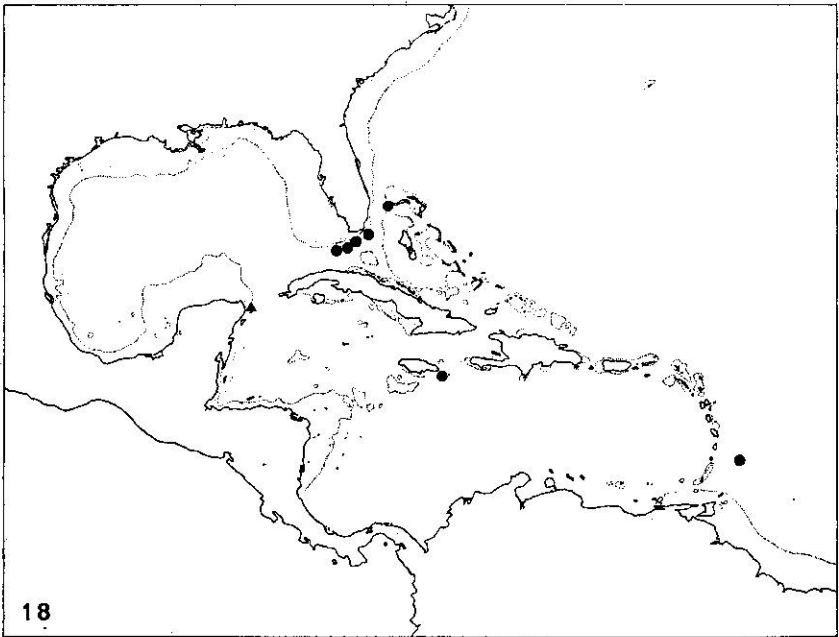
Map 15: Distribution of *Labyrinthocyathus langi* (circles) and *L. facetus* (triangles).



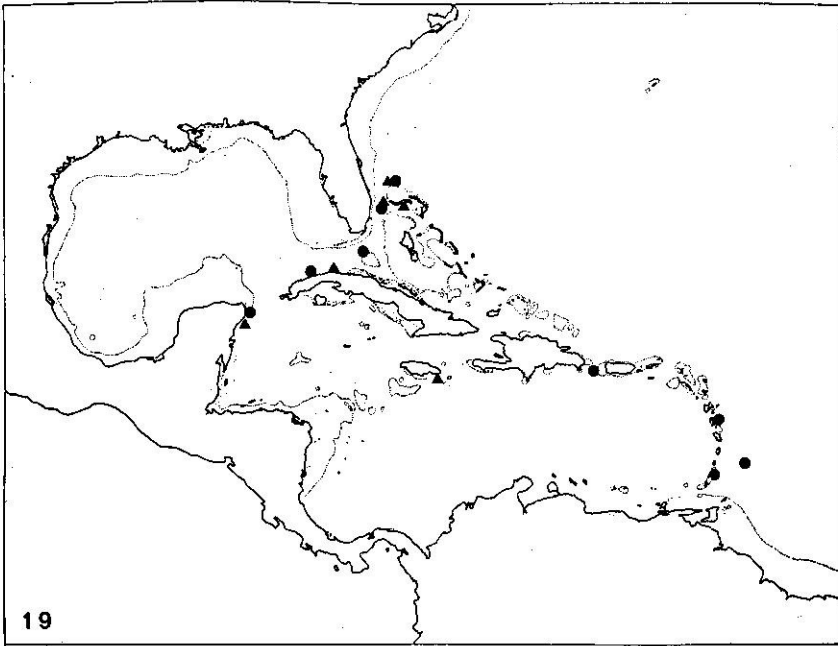
Map 16: Distribution of *Oxysmilium rotundifolia*.



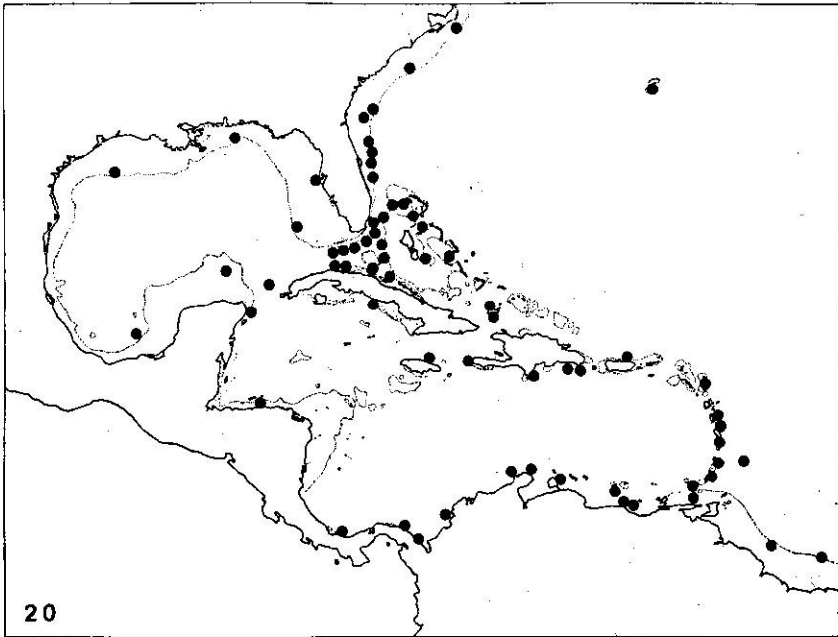
Map 17: Distribution of *Trochocyathus rawsonii* (circles) and *T. fossulus* (triangles).



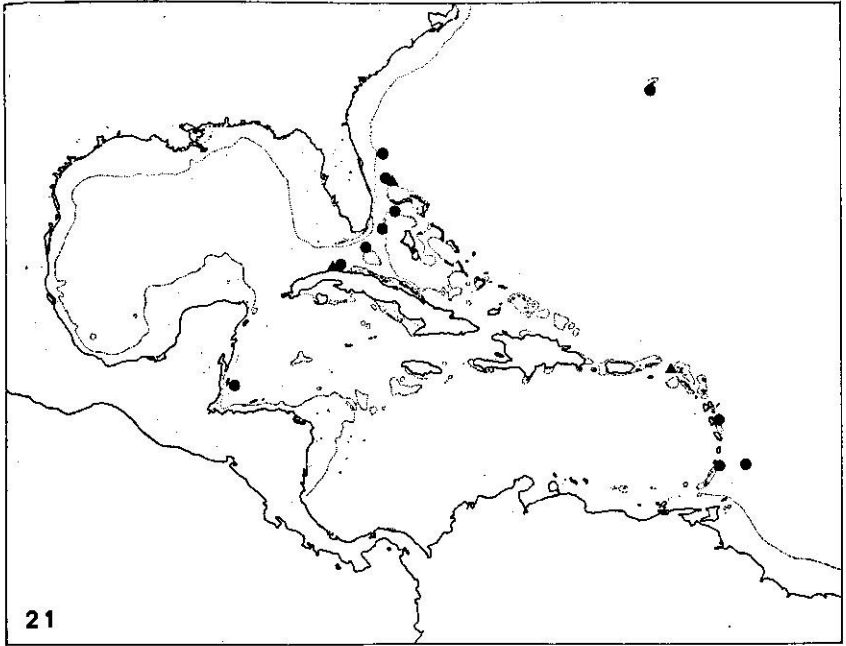
Map 18: Distribution of *Trochocyathus fasciatus* (triangle) and *Tethocyathus cylindraceus* (circles).



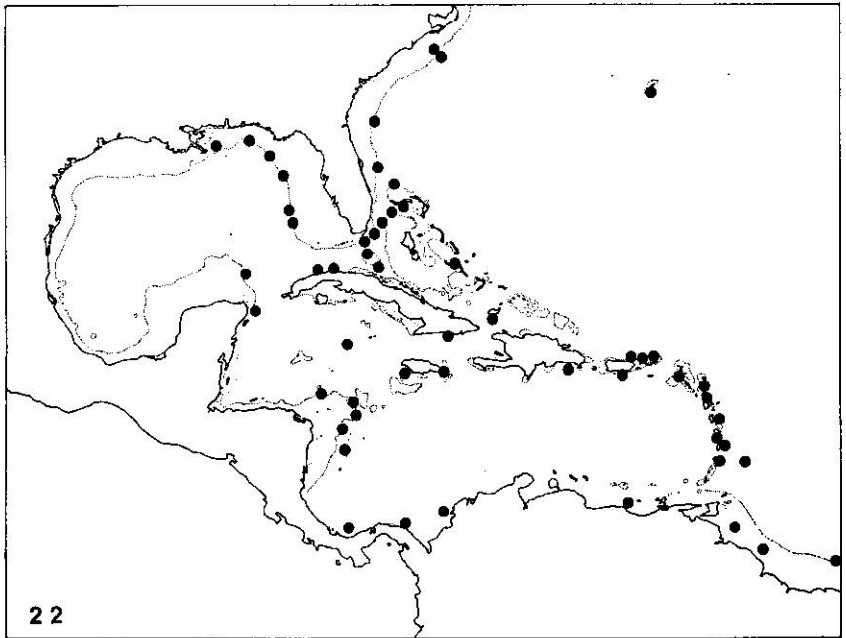
Map 19: Distribution of *Tethocyathus recurvatus* (triangles) and *T. variabilis* (circles).



Map 20: Distribution of *Paracyathus pulchellus*.

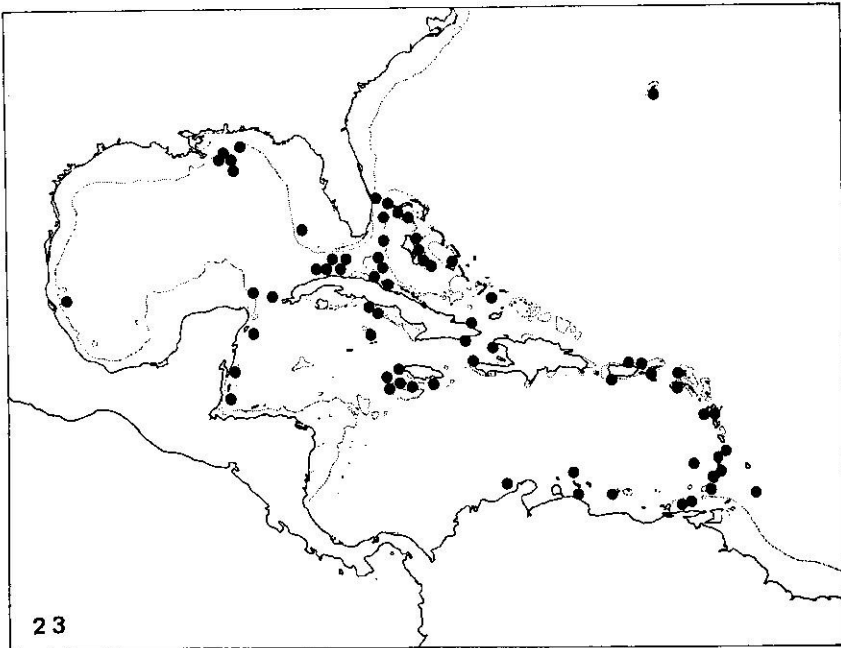


Map 21: Distribution of *Deltocyathus agassizii* (triangles) and *D. moseleyi* (circles).

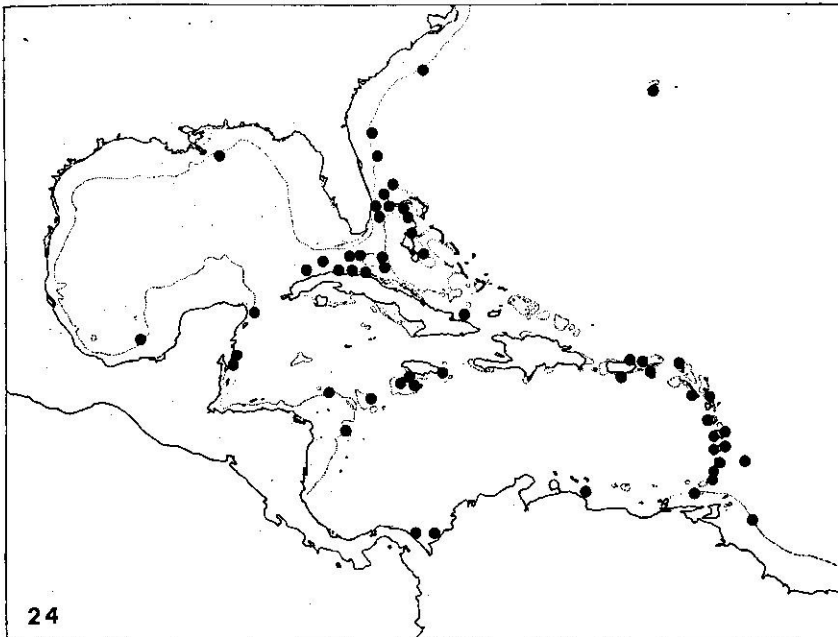


Map 22: Distribution of *Deltocyathus calcar*.

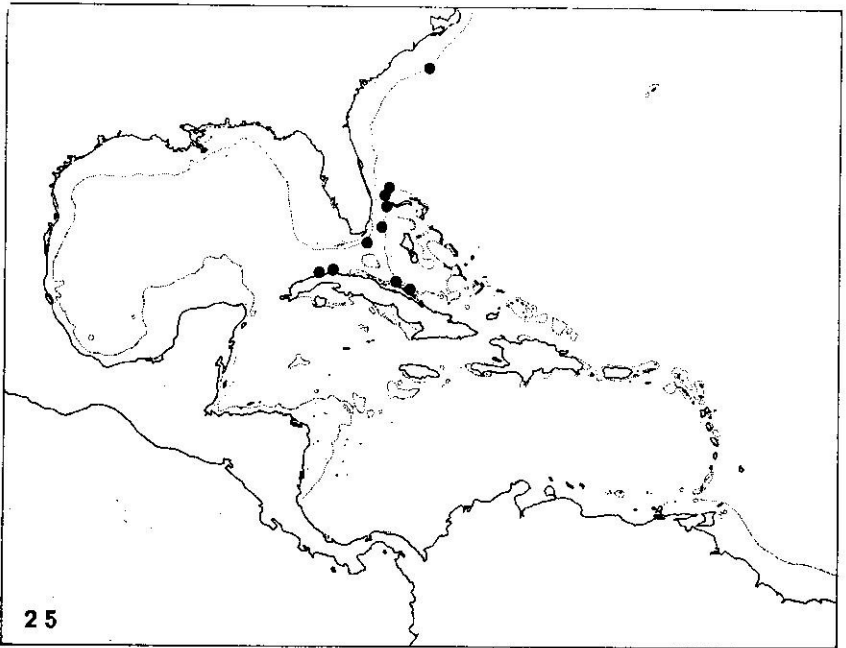




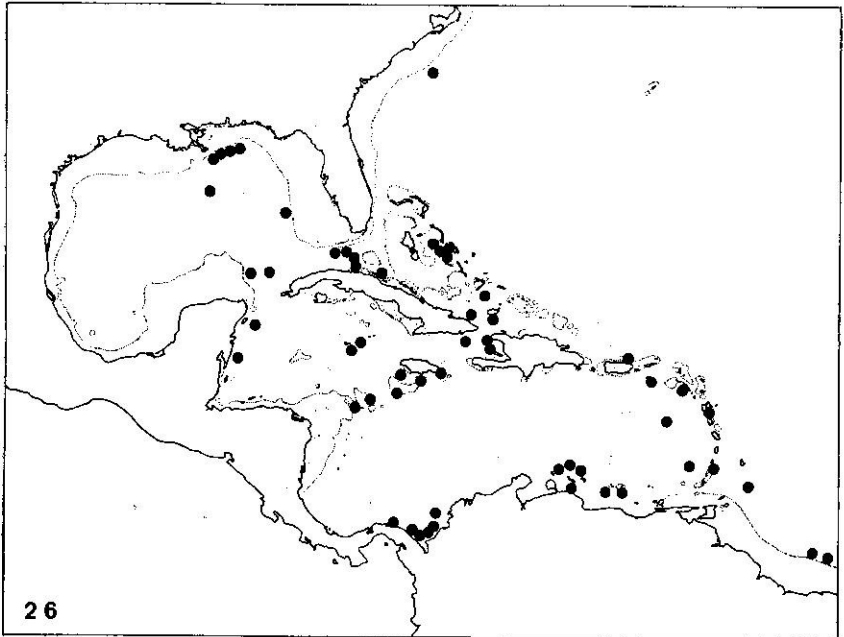
Map 23: Distribution of *Deltocyathus* sp. cf. *D. italicus*.



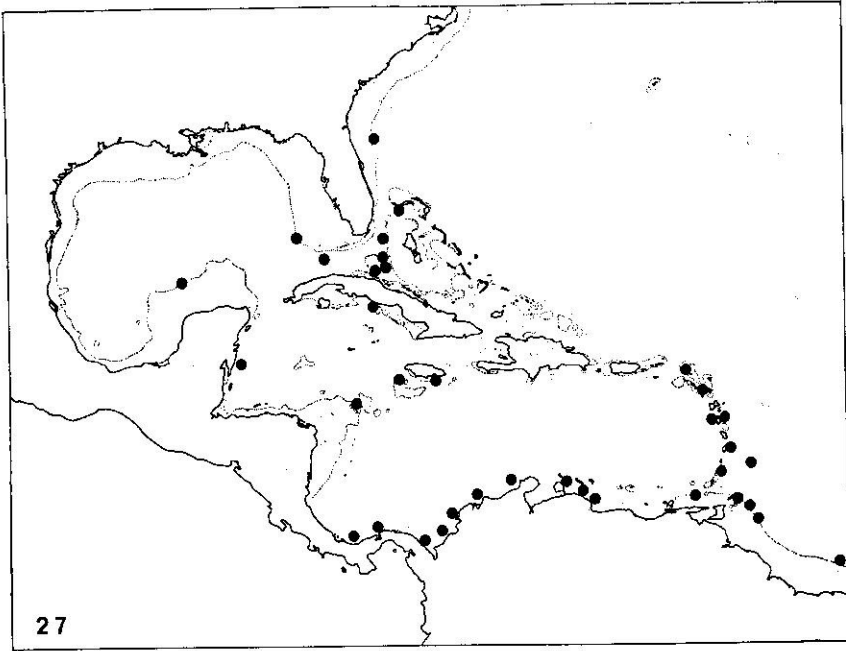
Map 24: Distribution of *Deltocyathus eccentricus*.



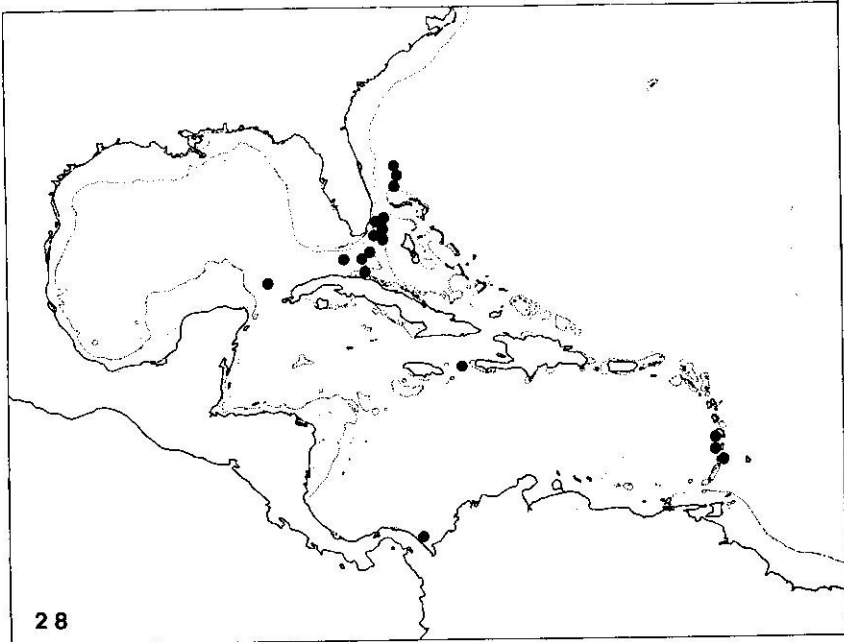
Map 25: Distribution of *Deltocyathus pourtalesi*.



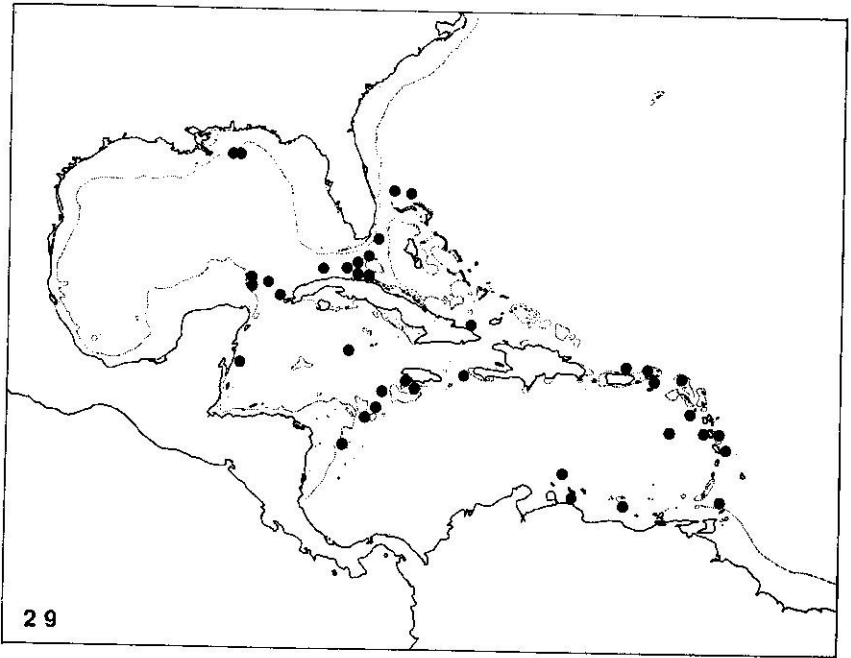
Map 26: Distribution of *Stephanocyathus (S.) diadema*.



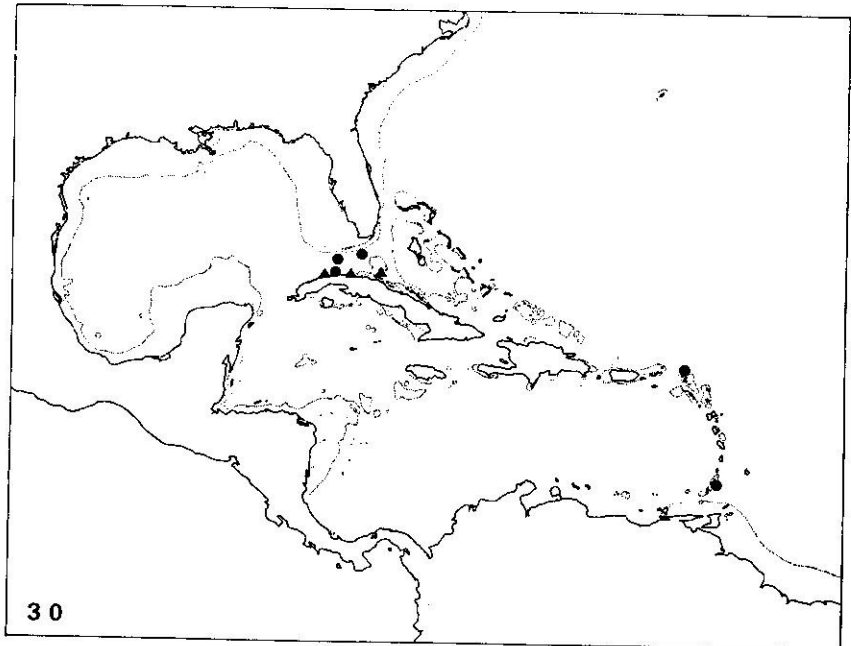
Map 27: Distribution of *Stephanocyathus (S.) paliferus*.



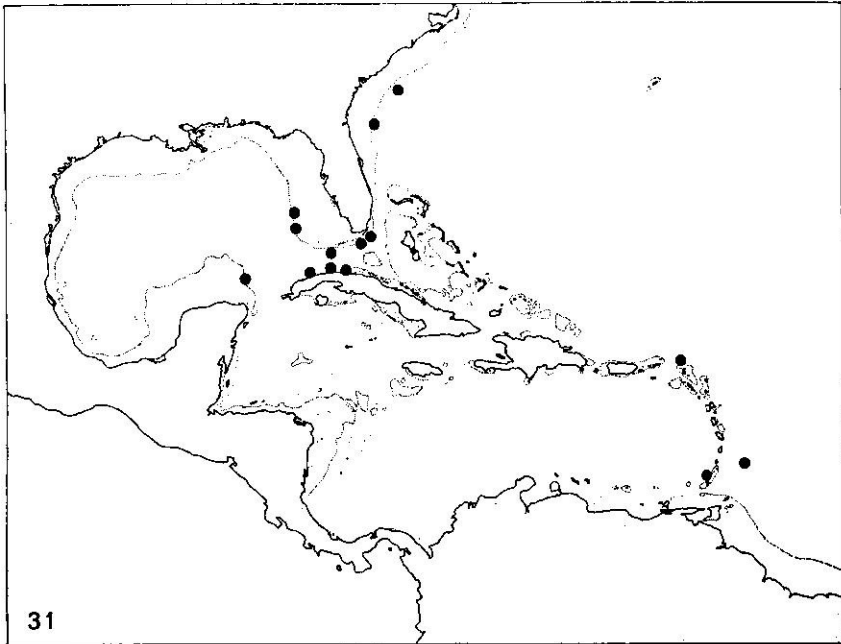
Map 28: Distribution of *Stephanocyathus (S.) laevifundus*.



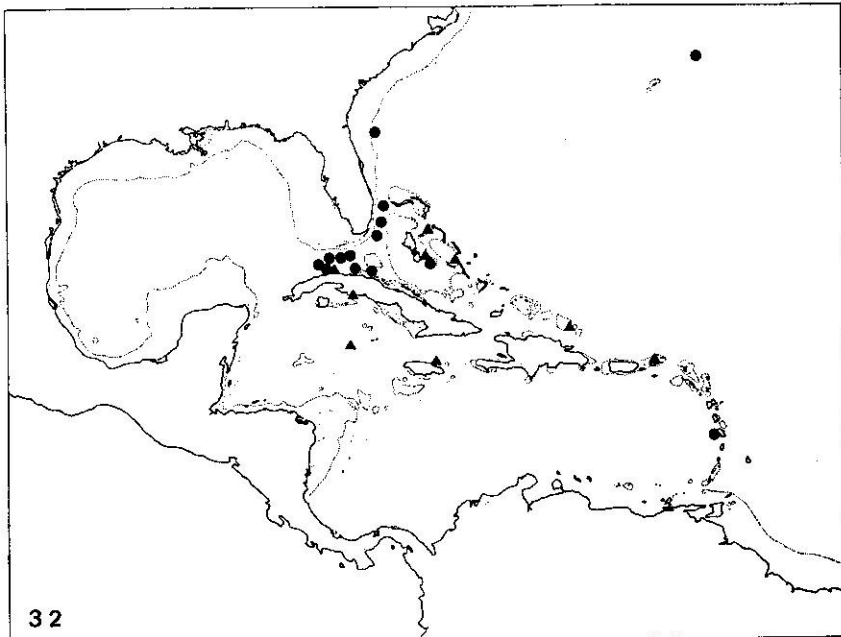
Map 29: Distribution of *Stephanocyathus (O.) coronatus*.



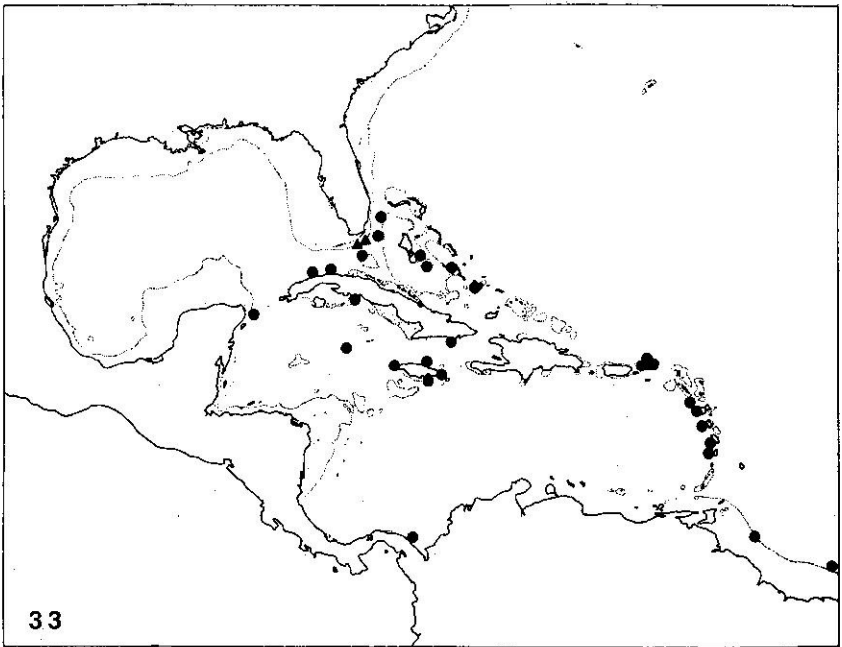
Map 30: Distribution of *Trematotrochus corbicula* (triangles) and *Peponocyathus folliculus* (circles).



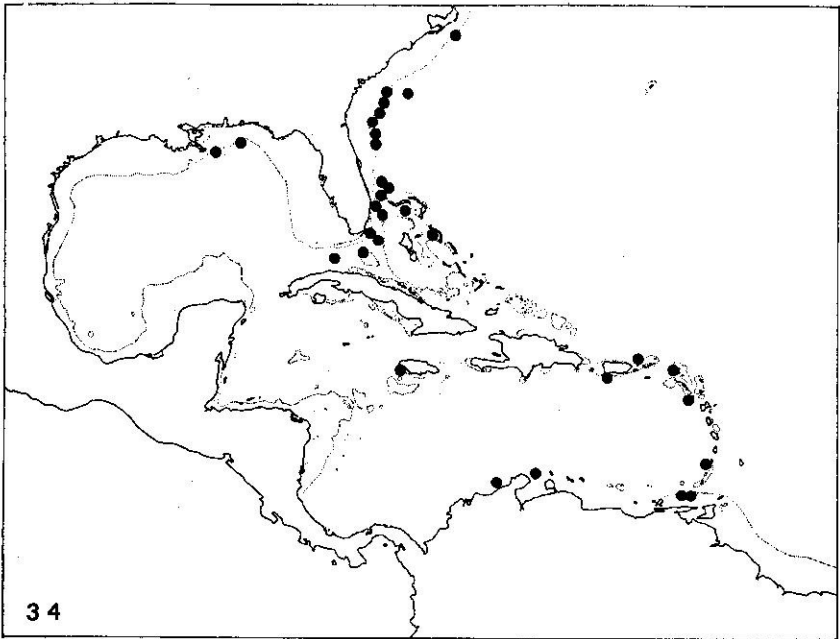
Map 31: Distribution of *Peponocyathus stimpsonii*.



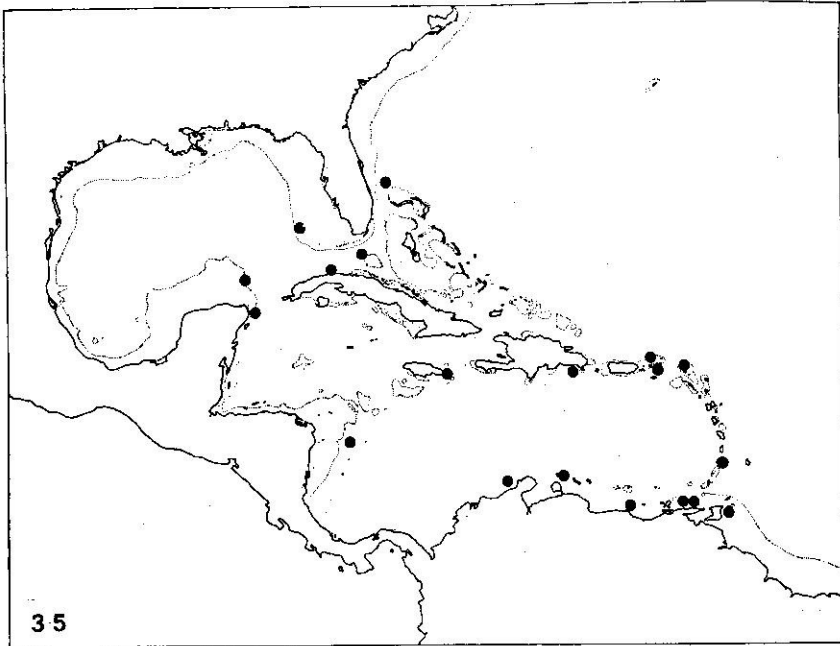
Map 32: Distribution of *Desmophyllum cristagalli* (circles) and *D. striatum* (triangles).



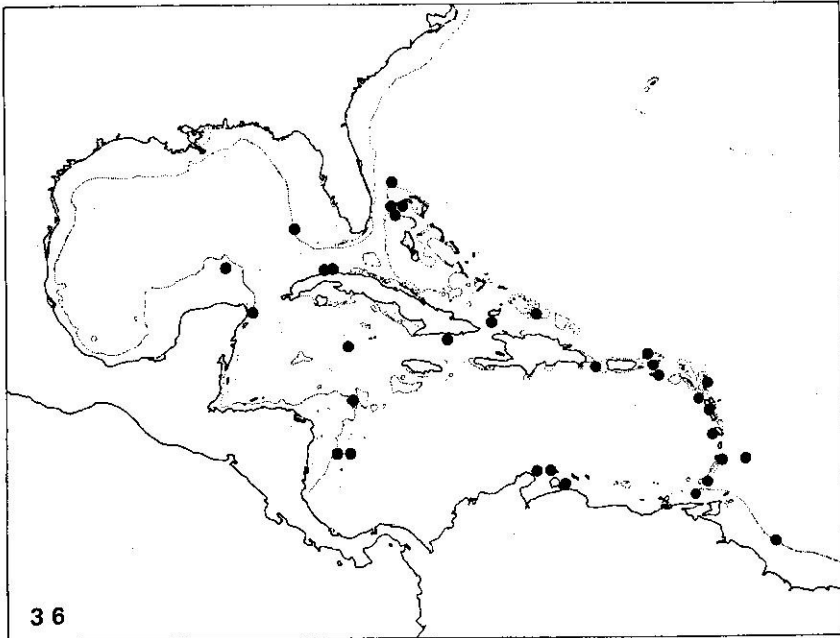
Map 33: Distribution of *Thalamophyllia riisei* (circles) and *T. gombergi* (triangles).



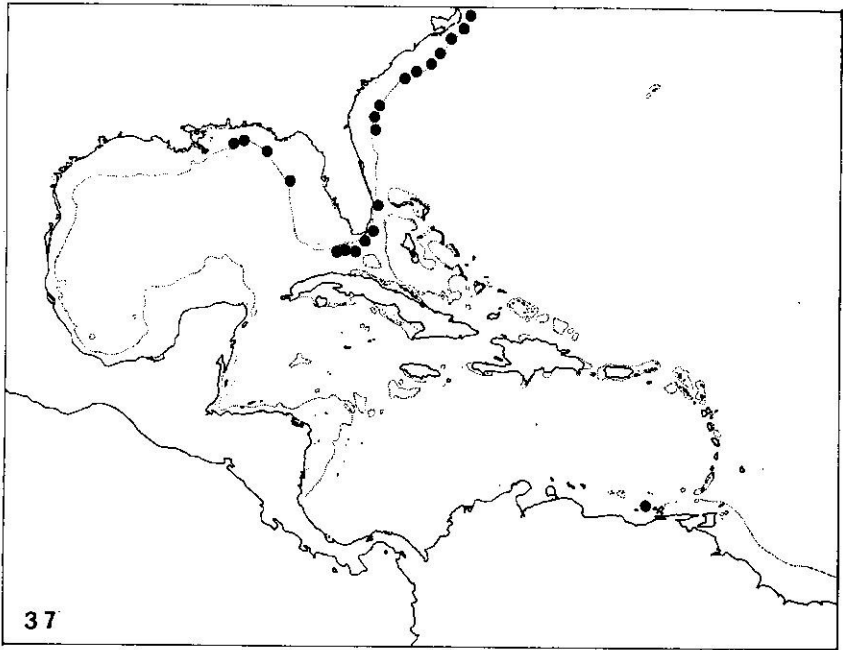
Map 34: Distribution of *Lophelia proliifera*.



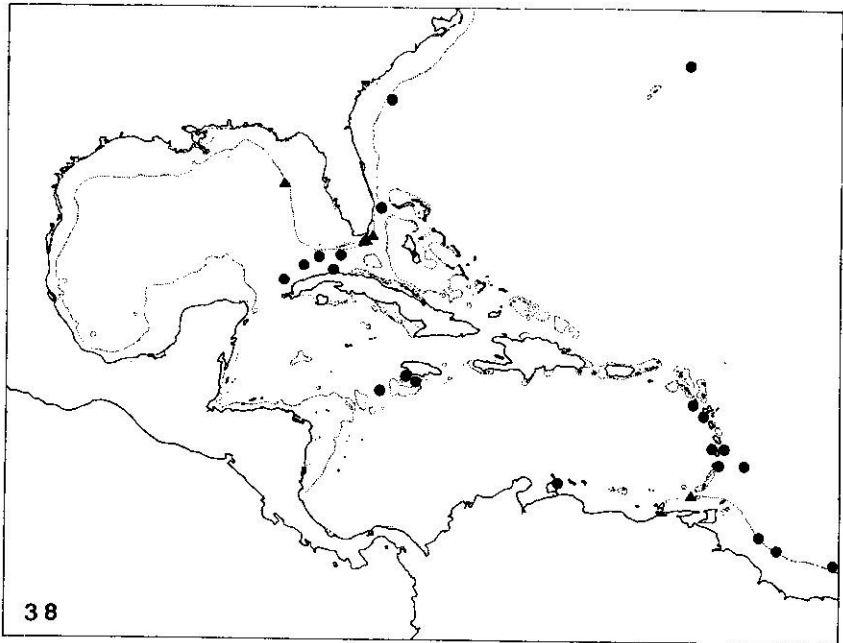
Map 35: Distribution of *Anomocora fecunda*.



Map 36: Distribution of *Coenosmilia arbuscula*.

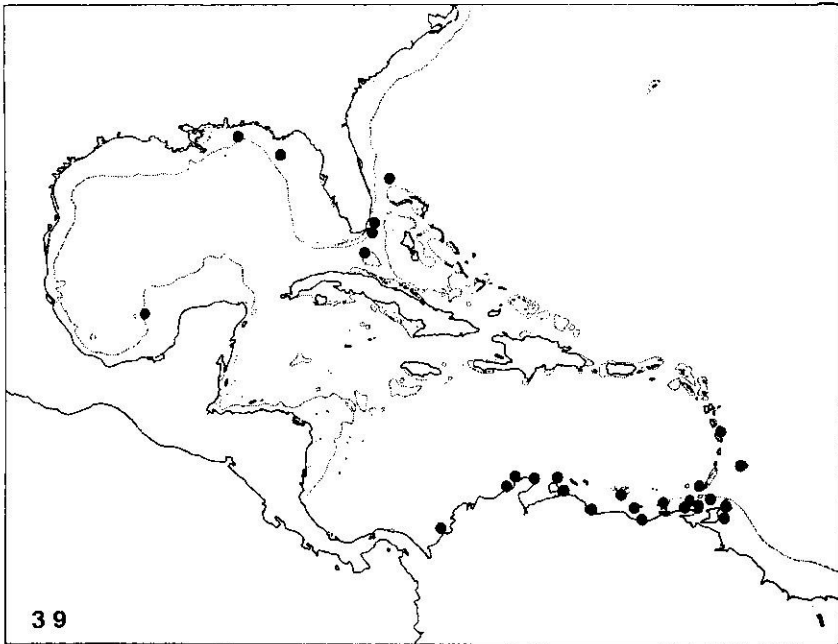


Map 37: Distribution of *Dasmomilia lymani*. ■

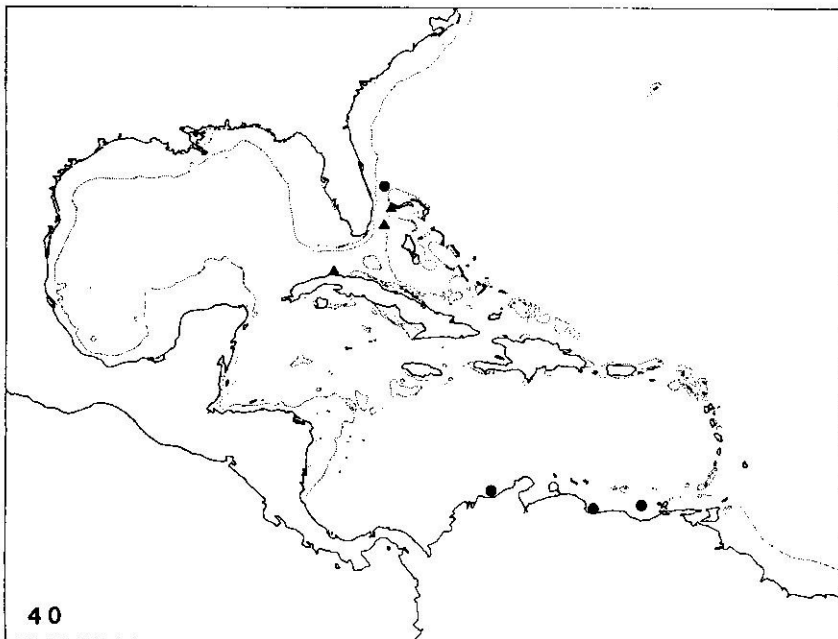


Map 38: Distribution of *Dasmomilia variegata* (triangles) and *Solenosmilia variabilis* (circles).

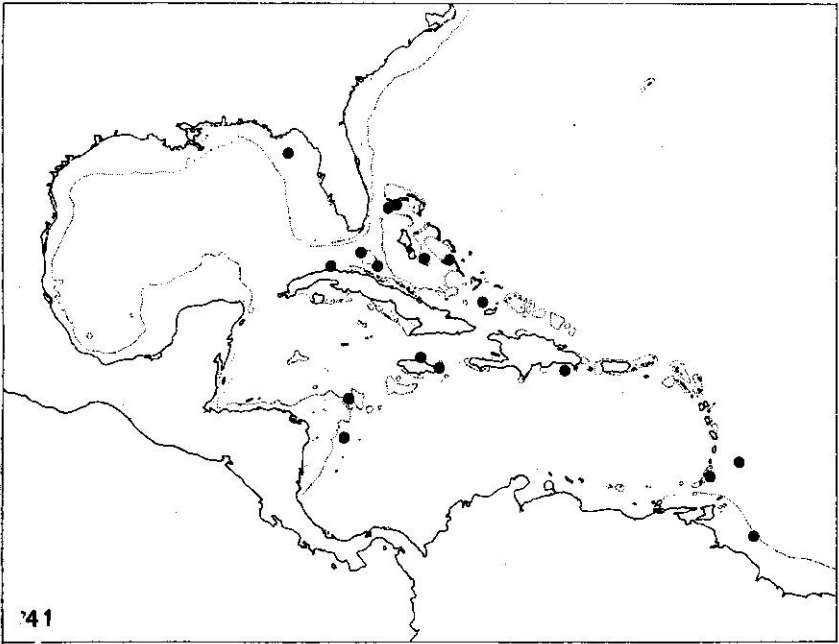




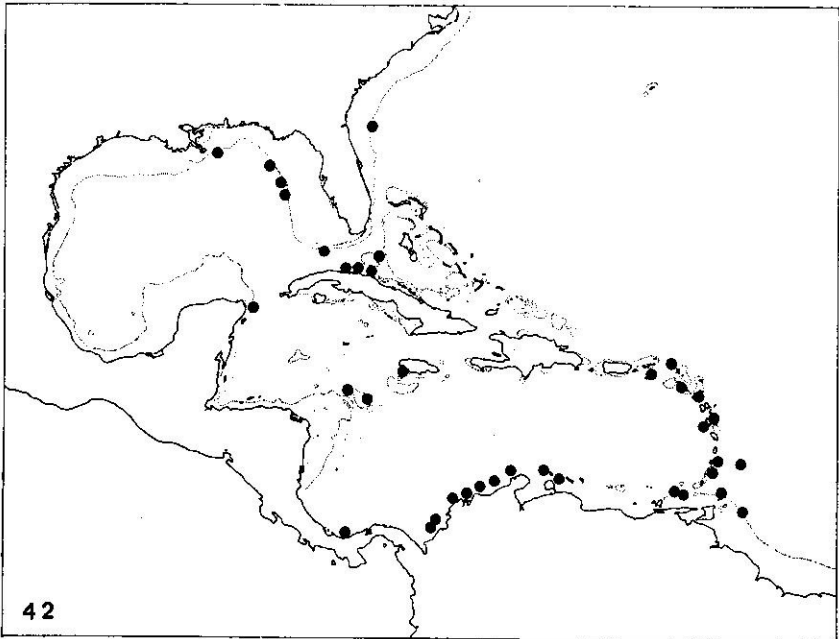
Map 39: Distribution of *Asterosmilia prolifera*.



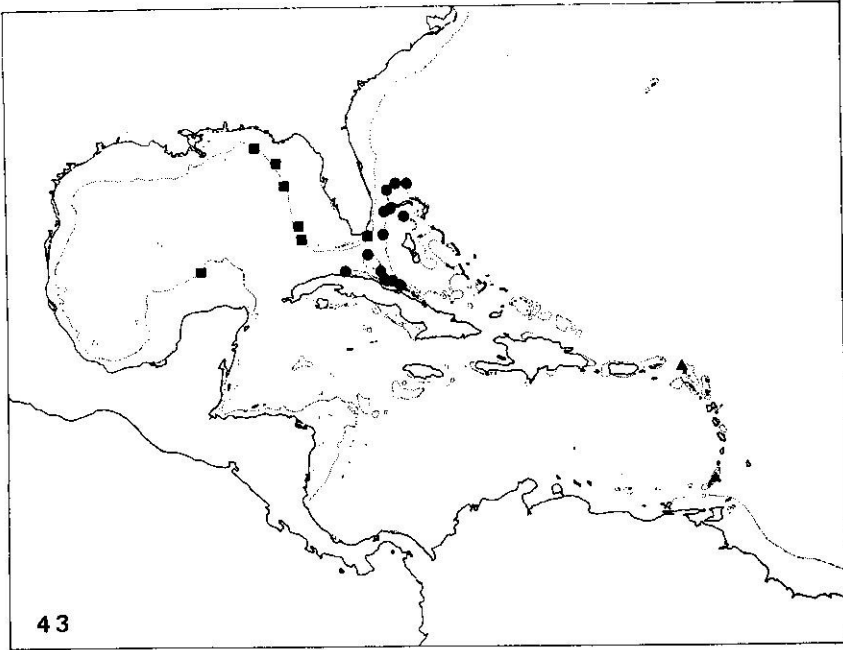
Map 40: Distribution of *Asterosmilia marchadi* (circles) and *Rhizosmilia gevdae* (triangles).



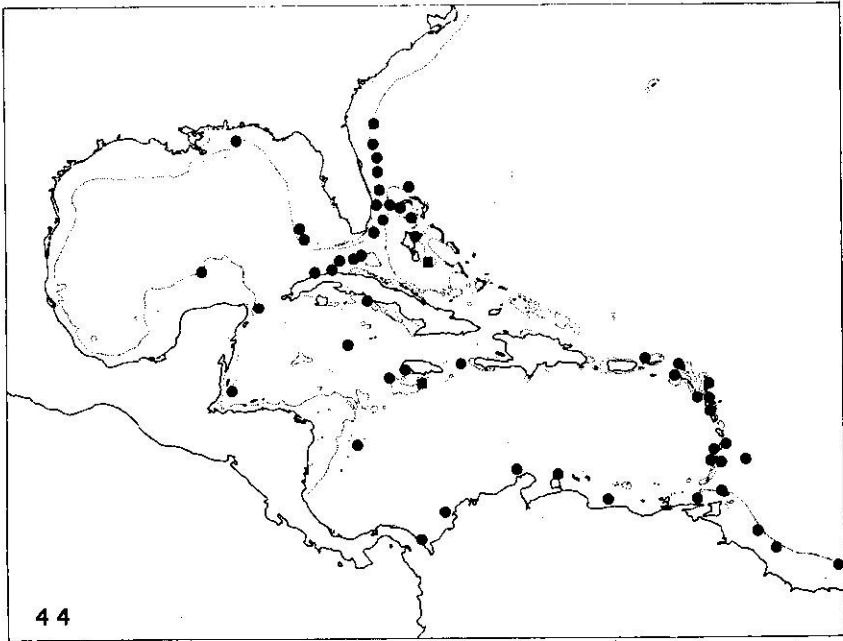
Map 41: Distribution of *Phacelocyathus flos*.



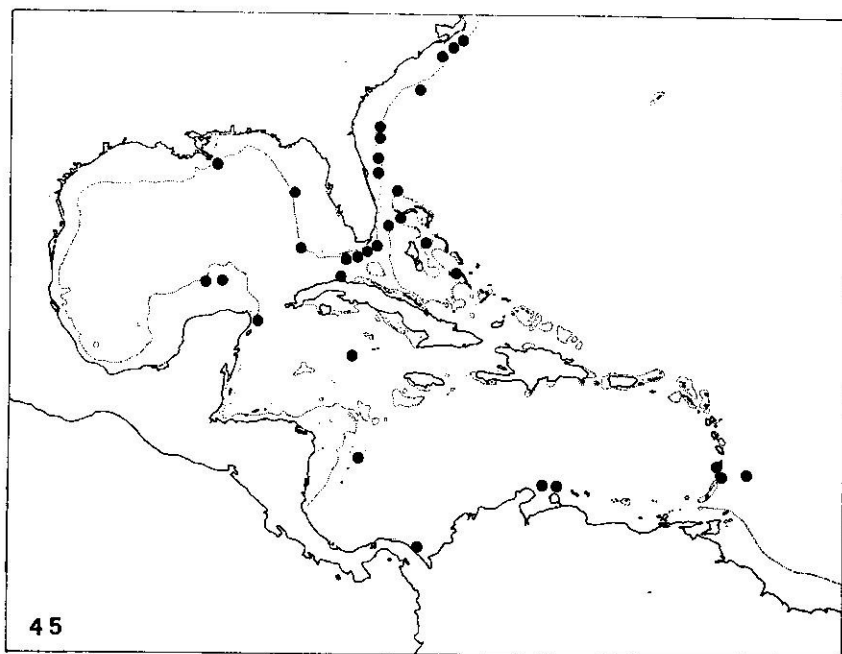
Map 42: Distribution of *Flabellum moseleyi*.



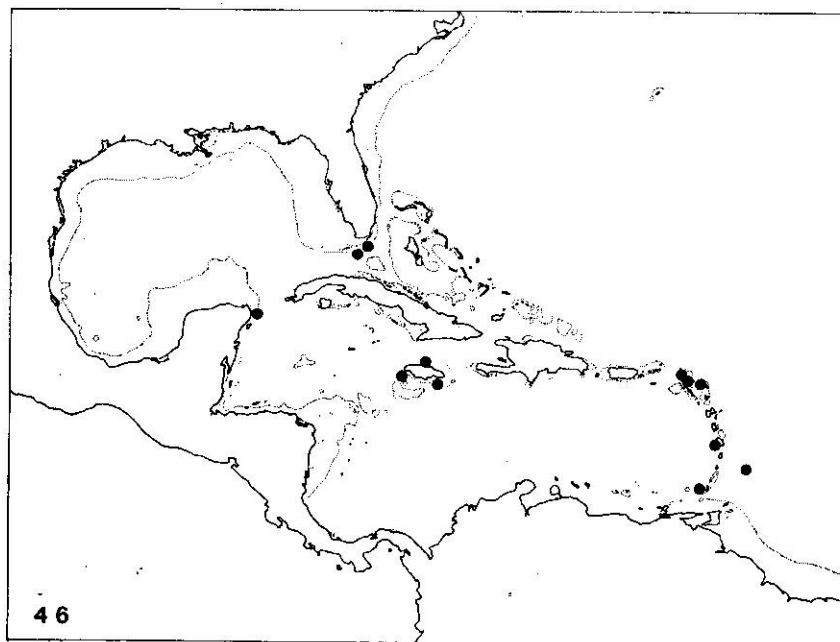
Map 43: Distribution of *Flabellum fragile* (squares), *F. pavoninum atlanticum* (circles), and *Placotrochides frusta* (triangles).



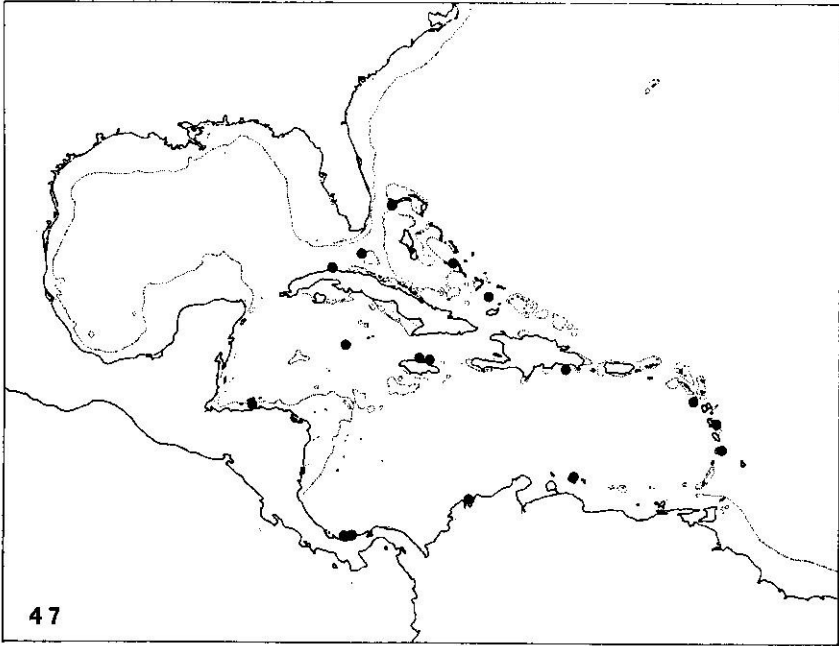
Map 44: Distribution of *Javania cailleti* (circles) and *J. pseudoalabastra* (squares).



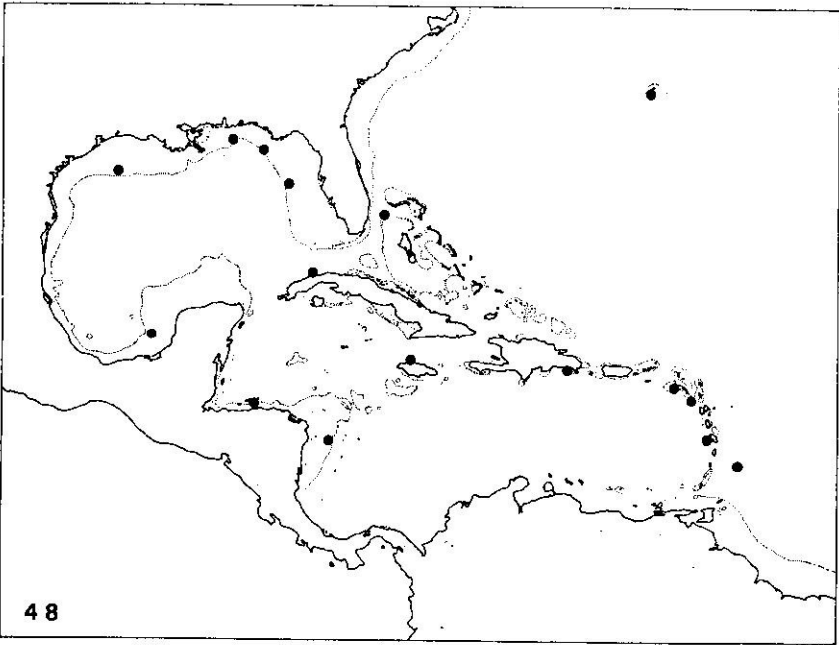
Map 45: Distribution of *Polymyces fragilis*.



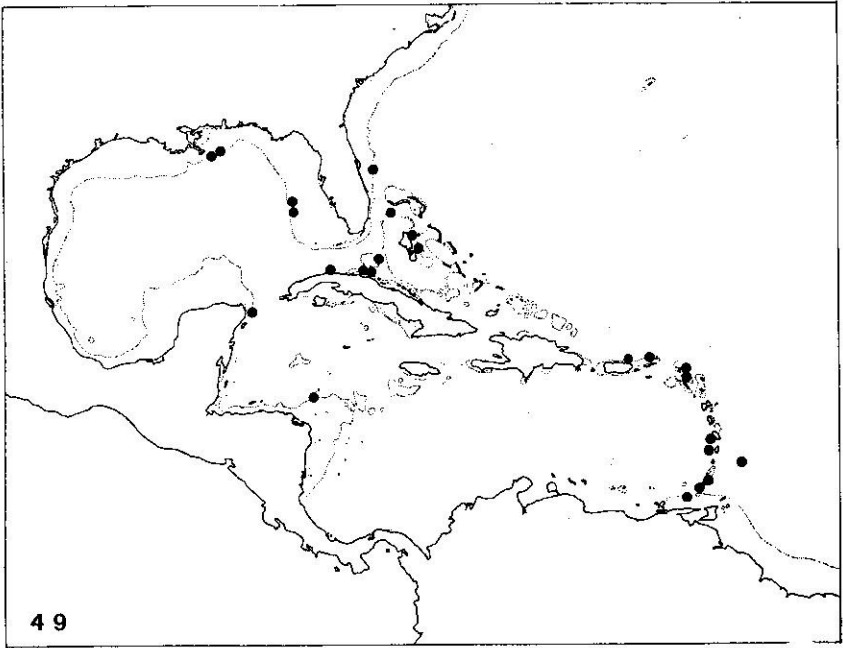
Map 46: Distribution of *Gardineria paradoxa*.



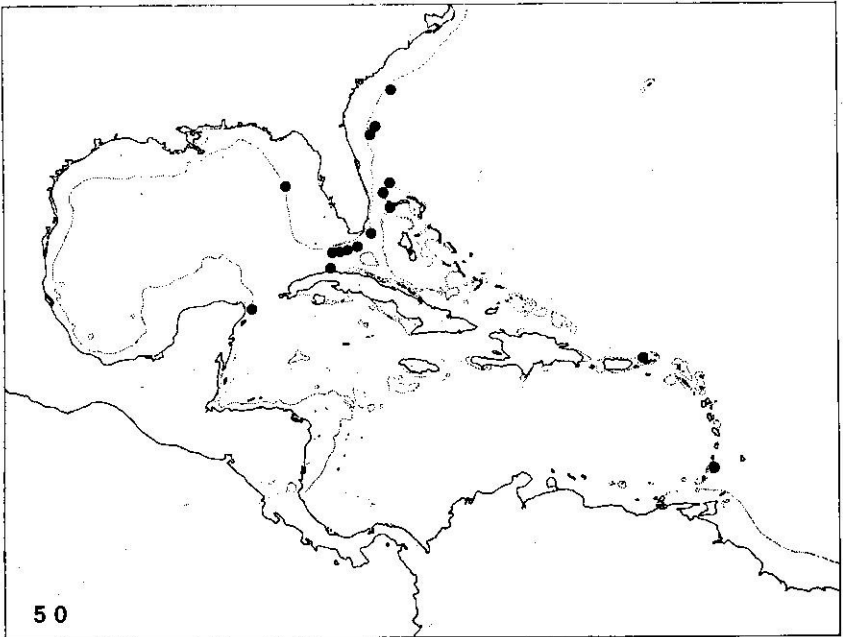
Map 47: Distribution of *Gardineria minor*.



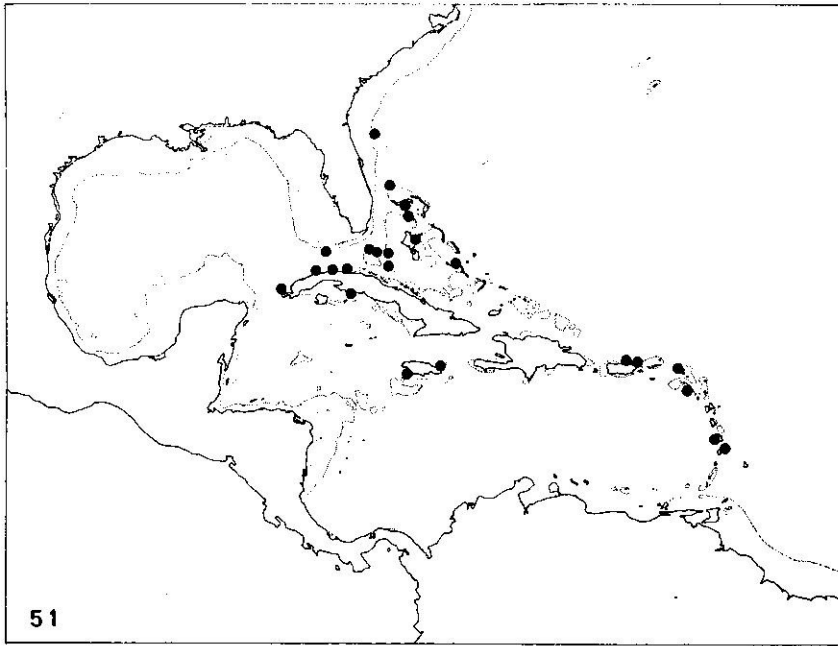
Map 48: Distribution of *Guymia annulata*.



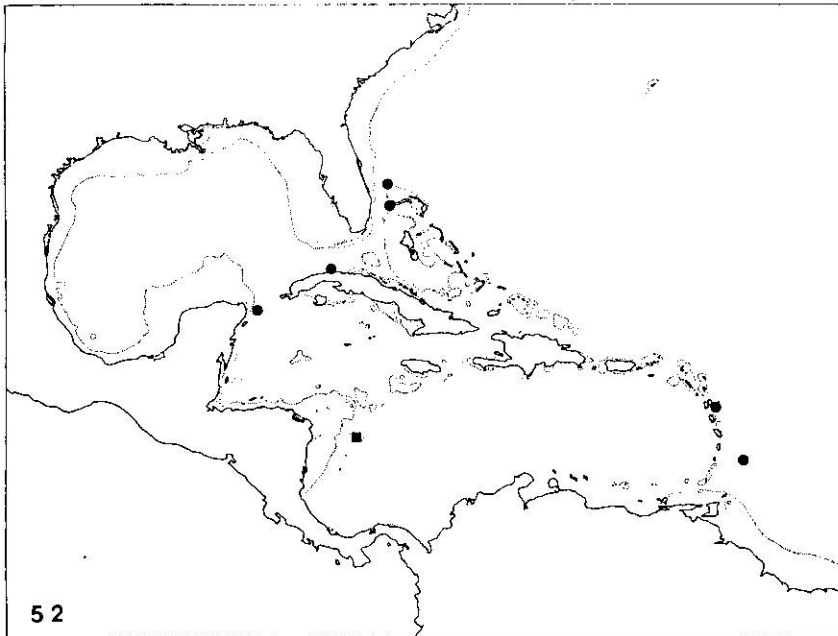
Map 49: Distribution of *Schizocyathus fissilis*.



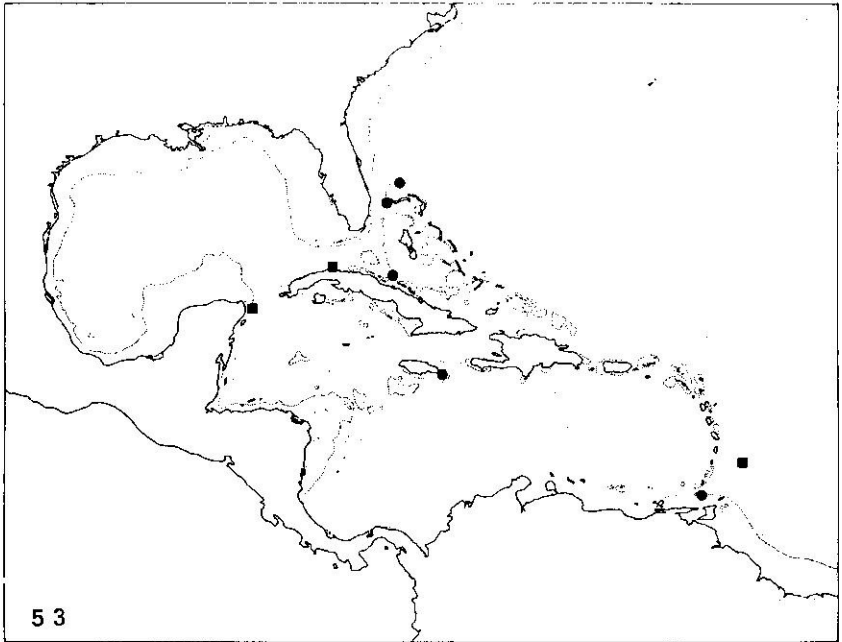
Map 50: Distribution of *Stenocyathus vermiciformis*.



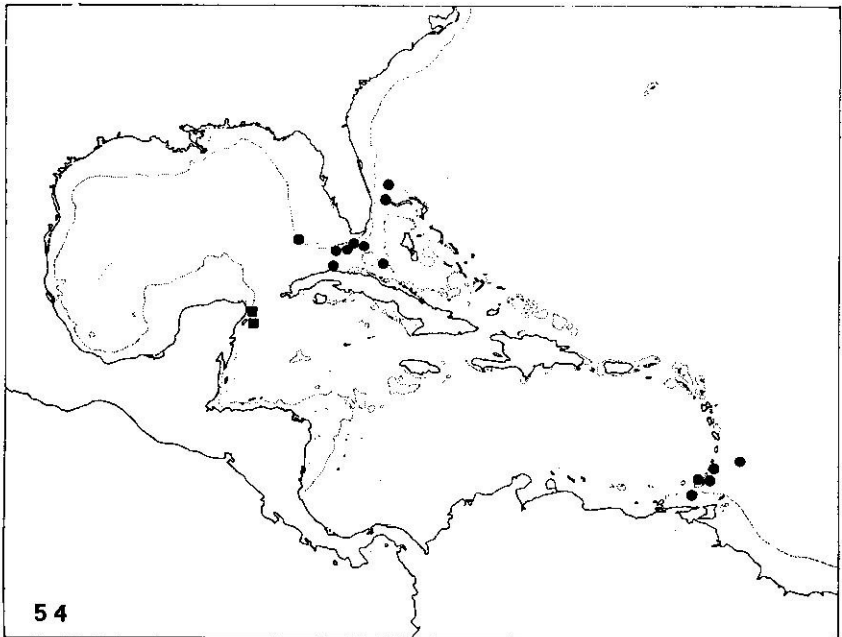
Map 51: Distribution of *Pourtalesia hispidus*.



Map 52: Distribution of *Balanophyllia cyathoides* (circles) and *B. hadros* (square).

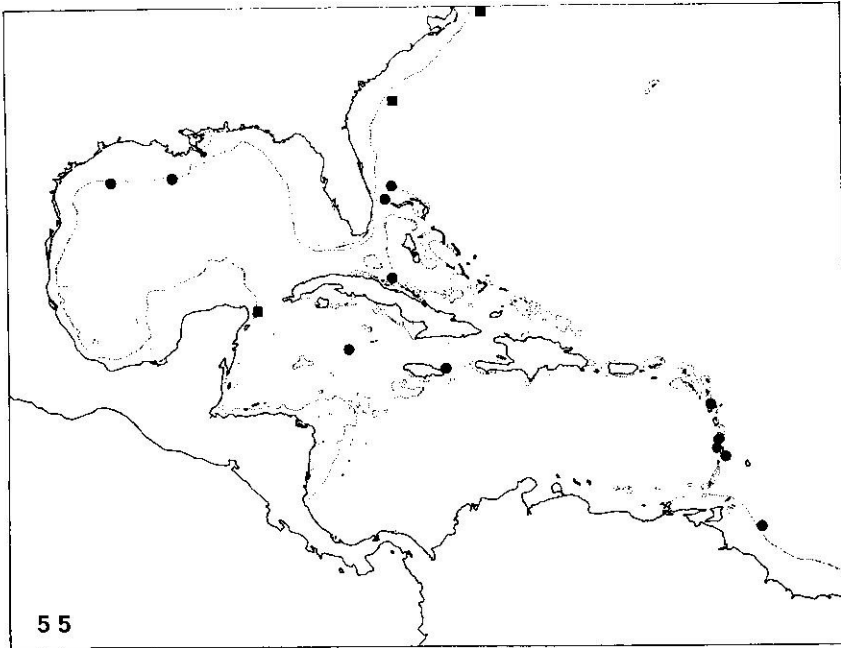


Map 53: Distribution of *Balanophyllia palifera* (squares) and *B. wellsi* (circles).

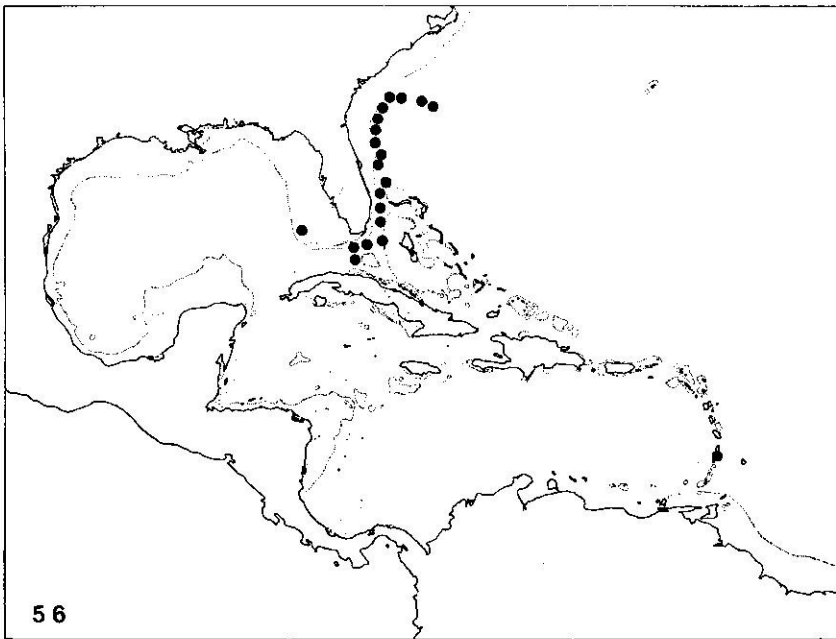


Map 54: Distribution of *Balanophyllia bayeri* (squares) and *Dendrophyllia cornucopia* (circles).

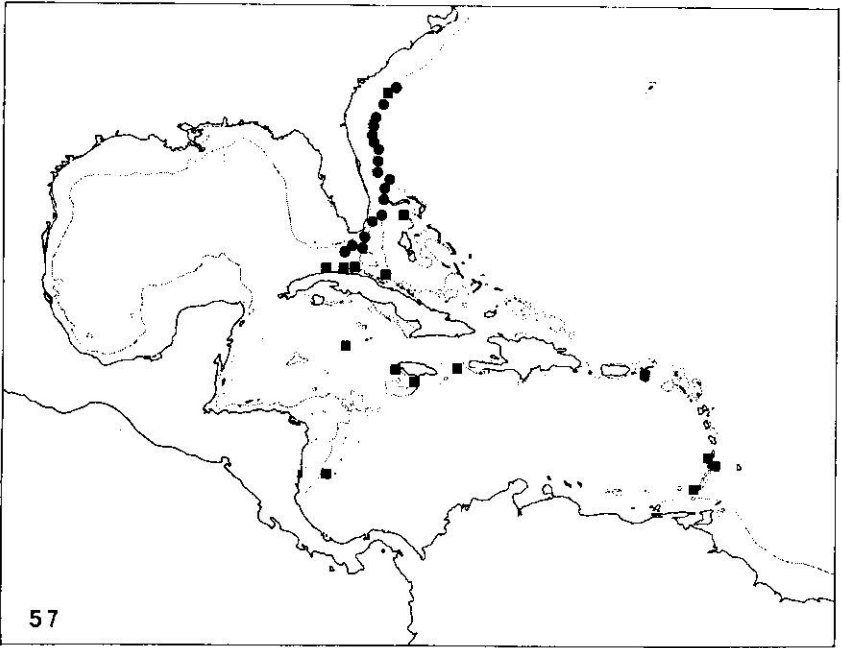




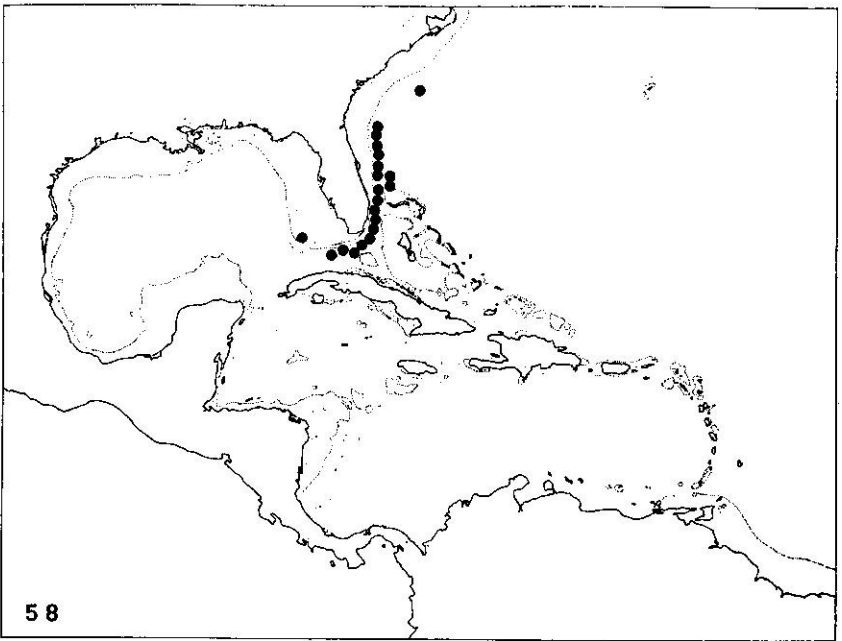
Map 55: Distribution of *Dendrophyllia gaditana* (squares) and *D. alternata* (circles).



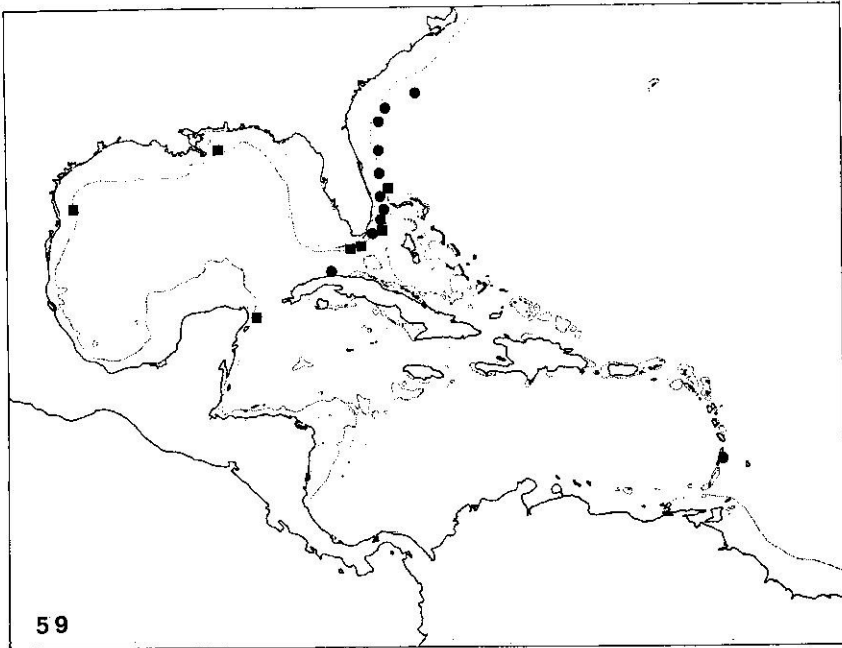
Map 56: Distribution of *Enallopsammia profunda*.



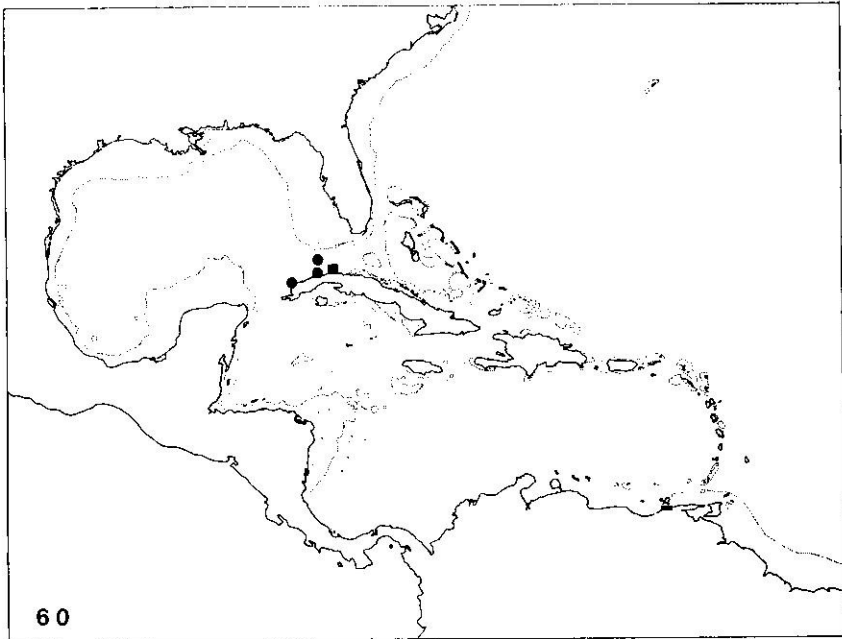
Map 57: Distribution of *Enallopsammia rostrata* (squares) and *Thecopsammia socialis* (circles).



Map 58: Distribution of *Bathypsammia tintinnabulum*.



Map 59: Distribution of *Bathypsammia fallosocialis* (circles) and *Rhizopsammia manuelensis* (squares).



Map 60: Distribution of *Trochopsammia infundibulum* (circles) and "*Cylicia*" *inflata* (square).



## REFERENCES

- AGASSIZ, A. 1888. Three cruises of the . . . Steamer Blake. *Bull. Mus. comp. Zool.* 15: 148-156, text-figs. 462-481.
- ALCOCK, A. 1898. *An account of the deep-sea Madreporaria collected by the royal Indian marine survey ship Investigator*. Calcutta: Trustees Indian Museum, 29 pp., 3 pls.
- 1902. Report on the deep-sea Madreporaria of the Siboga-expedition. *Monogr. Siboga Exped. 16a*: 52 pp., 5 pls.
- ALLEN, J. R. L. & WELLS, J. W. 1962. Holocene coral banks and subsidence in the Niger Delta. *J. Geol.* 70 (4): 381-397, pls. 1-4.
- ALLOITEAU, J. 1958. Monographie des Madréporaires fossiles de Madagascar. *Ann. Géol. Madagascar* 25: viii + 218 pp., 38 pls., 37 text-figs.
- ARANGO Y MOLINA, R. 1877. Radiados de la Isla de Cuba. Pólipos Calcáreos. *An. R. Acad. Cienc. Médicas, Físicas y Naturales de la Habana* 14: 272-284.
- BAYER, F. M. 1961. The shallow-water Octocorallia of the West Indian region. *Stud. Fauna Curaçao* 12 (55): 373 pp., 28 pls., 101 text-figs.
- [1973]. Marine Invertebrate postage stamps. République d'Haiti, set of eight colored illustrations.
- BEST, M. B. 1969. Étude systématique et écologique des Madréporaires de la région de Banyuls-sur-Mer (Pyrénées-Orientales). *Vie et Milieu (A)* 20 (2A): 293-326, 18 figs.
- 1970. A new species of *Polycyathus* Duncan, 1876 from New Caledonia and a new record of *Polycyathus senegalensis* Chevalier, 1966 (Madreporaria). *Beaufortia* 17 (227): 79-84, 4 figs.
- BOONE, L. 1928. Coelenterata from the tropical east American seas. Scientific results of the first oceanographic expedition of the Pawnee 1925. *Bull. Bingham oceanogr. Coll.* 1 (5): 1-8, pls. 1-3.
- BOURCIER, M. & ZIBROWIUS, H. 1973. Les "bouges rouges" déversées dans le Canyon de la Cassidaigne. Observations en soucoups plongeante SP 350 (juin 1975) et résultats de dragages. *Téthys* 4 (4): 811-841, 3 pls.
- BOURNE, G. C. 1905. Report on the solitary corals collected by Professor Herdman, at Ceylon, in 1902. Pp. 187-242, 4 pls., 5 text-figs. in W. A. HERDMAN, ed. *Report to the government of Ceylon on the pearl oyster fisheries in the Gulf of Manaar*. London, Ray Society 4 (Suppl. 29).

- BRIGGS, J. C. 1974. *Marine Zoogeography*. McGraw-Hill Book Co., New York, 475 pp.
- BRIGHT, T. J. & TUNNELL, J. W. & PEQUEGNAT, L. H. & BURKE, T. E. & CASHMAN, C. W. & CROPPER, D. A. & RAY, J. P. & TRESSLAR, R. C. & TEERLING, J. & WILLS, J. B. 1974. Biotic zonation of the West Flower Garden Bank, pp. 3-54, 48 figs. in BRIGHT & PEQUEGNAT eds. *Biota of the West Flower Garden Bank*. Gulf Publ. Co., Houston.
- BRODERIP, W. J. 1828. Description of *Caryophyllia smithii* n. sp. *Zool. Jour.* 3: 485-486, pl. 13, figs. 1-6.
- CAIRNS, S. D. 1976. *A revision of the deep-water ahermatypic corals (Scleractinia) of the tropical western Atlantic*. Ph.D. dissertation. Univ. Miami, 244 pp., 35 pls. (Unpublished).
- 1977. Deep-water corals. *Sea Front.* 23 (2): 84-89, 9 figs.
- 1977a. A revision of the Recent species of *Balanophyllia* (Anthozoa: Scleractinia) in the western Atlantic, with descriptions of four new species. *Proc. Biol. Soc. Wash.* 90 (1): 132-148, 4 pls.
- 1977b. Story corals. I. *Caryophyllina* and *Dendrophyllina* (Anthozoa: Scleractinia). *Mem. Hourglass Cruises* 3 (4): 1-27, 2 pls.
- 1977c. A revision of the Recent species of *Stephanocyathus* (Anthozoa: Scleractinia) in the western Atlantic, with descriptions of two new species. *Bull. mar. Sci.* 27 (4): 729-739, 2 pls.
- 1978. A checklist of ahermatypic Scleractinia of the Gulf of Mexico, with the description of a new species. *Gulf Res. Rep.* 6 (1): 9-15, 1 pl.
- 1978a. New genus and species of ahermatypic coral (Scleractinia) from the western Atlantic. *Proc. Biol. Soc. Wash.* 91 (1): 216-221, 1 pl., 1 text-fig.
- CARLGRÉN, O. 1945. Polypdyr (Coelenterata) 3. Koraldyr. *Danmarks Fauna. København* 51: 1-168.
- CECCHINI, C. 1914. Su due nuovi Turbinolidae del Mediterraneo. *Mon. zool. Ital.* 25: 151-152.
- 1917. Gli Alcionari e i Madreporari raccolti nel Mediterraneo dalla R. N. Washington (1881-1883). *Arch. zool. Ital.* 9 (2): 123-157, pl. 13, text-figs. 1-2.
- CHEVALIER, J. P. 1961. Recherches sur les Madréporaires et les formations récifales du Miocène de la Méditerranée occidentale. *Mem. Soc. géol. Fr. (N.S.)* 40 (93): 562 pp., 26 pls.
- 1966. Contributions à l'étude des Madréporaires des côtes occidentales de l'Afrique tropicale, pts. 1 and 2. *Bull. I.F.A.N. (A)* 28 (3A): 912-975, pls. 1-5; 28 (4A): 1356-1405, pls. 6-8.
- 1971. Les Scléactiniaires de la Mélanésie Française, 1re pt. *Expédit. Fr. sur les récifs coralliens de la Nouvelle-Calédonie* 5: 307 pp., 38 pls., 182 text-figs.
- DANA, J. D. 1846-1849. Zoophytes. *United States Exploring Expedition (1838-1842)*, 7: vi + 740 pp., 45 text-figs., 61 pls.
- DEFENBAUGH, R. E. 1976. *A study of the benthic macroinvertebrates of the continental shelf of the northern Gulf of Mexico*. Ph.D. dissertation. Texas A & M Univ., 476 pp., including 50 pls. (Unpublished).
- DENNANT, J. 1899. Descriptions of new species of corals from the Australian Tertiaries. Part 1. *Trans. roy. Soc. South Australia* 23 (1): 112-122, pls. 2-3.
- 1906. Madreporaria from the Australian and New Zealand coasts. *Trans. roy. Soc. South Australia* 30: 151-165, pls. 5-6.
- DONS, C. 1944. Norges korallrev. *Kongl. norske Vidensk. Selsk. forh.* 16: 37-82.

- DUCHASSAING, P. 1850. *Animaux radiaires des Antilles*. Paris, 33 pp., 2 pls.
- 1870. *Revue des Zoophytes et des Spongiaires des Antilles*. Paris, 52 pp., 2 pls.
- DUCHASSAING, P. & MICHELOTTI, J. 1860. Mémoire sur les coralliaires des Antilles. *Mem. Acad. Sci. Torino* (2) 19: 279–365 [reprint numbered 1–89], 10 pls.
- 1864. Supplément au mémoire sur les coralliaires des Antilles. *Mem. Acad. Sci. Torino* (2) 23: 97–206 [reprint numbered 1–112], 11 pls.
- DUNCAN, P. M. 1870. On the Madreporaria dredged up in the expedition of the H.M.S. Porcupine. *Proc. roy. Soc. London* 18: 289–301.
- 1872. On the structure and affinities of *Guynia annulata* Duncan, with remarks on the persistence of Paleozoic types of Madreporaria. *Phil. Trans. roy. Soc. London* 162: 29–40, 1 pl.
- 1873. A description of the Madreporaria dredged up during the expedition of the H.M.S. Porcupine in 1869 and 1870. Part I. *Trans. zool. Soc. London* 8 (5): 303–344, pls. 39–49.
- 1876. Notice of some deep-sea and littoral corals from the Atlantic Ocean, Caribbean, Indian, New Zealand, Persian Gulf, and Japan &c Seas. *Proc. zool. Soc. London* 1876: 428–442, pls. 38–41.
- 1877. On the rapidity of growth and variability of some Madreporaria on an Atlantic cable, with remarks on the rate of accumulation of foraminifer deposits. *Ann. Mag. nat. Hist.* (4) 20: 361–365 (Also: *Proc. roy. Soc. London* 26: 133–137).
- 1878. A description of the Madreporaria dredged up during the expedition of the H.M.S. Porcupine in 1869 and 1870. Part 2. *Trans. zool. Soc. London* 10 (1): 235–249, pls. 43–45.
- 1882. On some Recent corals from Madeira. *Proc. zool. Soc. London* 1882: 213–221, pl. 8.
- 1883. Remarks on an essay by Prof. G. Lindström, entitled “Contributions to the Actinology of the Atlantic Ocean”, and a reply to some of his criticisms. *Ann. Mag. nat. Hist.* (5) 12: 361–369.
- DURHAM, J. W. 1947. Corals from the Gulf of California and the North Pacific coast of America. *Mem. Geol. Soc. Amer.* 20: 68 pp., 14 pls.
- 1949. Ontogenetic stages of some simple corals. *Univ. Calif. Publ. (Geol. Sci.)* 28 (6): 137–172, pls. 4–5.
- DURHAM, J. W. & BARNARD, J. L. 1952. Stony corals of the eastern Pacific collected by the *Velero III* and *Velero IV*. *Allan Hancock Pacific Exped.* 16 (1): 110 pp., 16 pls.
- EGUCHI, M. 1968. *The Hydrocorals and Scleractinian corals of Sagami Bay collected by His Majesty the Emperor of Japan*. Mazuren Co., Tokyo, xv + 221 pp., 70 pls.
- EKMAN, S. 1953. *Zoogeography of the sea*. Sidgwick & Jackson, London, xiv + 417 pp., 121 figs.
- ELLIS, J. & SOLANDER, D. 1786. *The natural history of many curious and uncommon Zoophytes, collected . . . by the late John Ellis, systematically arranged and described by the late Daniel Solander*. London, xii + 208 pp., 63 pls.
- ERHARDT, H. 1976. La existencia del coral *Stephanocyathus nobilis* (Moseley, 1881) en la costa de la península Guajira. Una demostración primaria para la costa atlántica de Colombia. *Mitt. Inst. Colombo-Alemán Invest. Cient.* 8: 59–62, 1 pl.
- ESPER, E. J. C. 1788–1830. *Die Pflanzenthier*. Nürnberg, 3 vol. text, 2 vol. pls.
- FAUSTINO, L. A. 1927. Recent Madreporaria of the Philippine Islands. *Monogr. Philipp. Bur. Sci.* 22: 310 pp., 100 pls.

- GARDINER, J. S. 1904. The turbinolid corals of South Africa, with notes on their anatomy and variation. *Mar. Invest. South Africa* 3 (4): 93-129, pls. 1-3.
- 1913. The corals of the Scottish National Antarctic Expedition. *Trans. roy. Soc. Edinburgh* 49 (3): 687-689.
- GARDINER, J. S. & WAUGH, P. 1938. The flabellid and turbinolid corals. *John Murray Exped. Sci. Rep.* 5 (7): 167-202, pls. 1-7, 6 text-figs.
- 1939. Madreporaria excluding the Flabellidae and Turbinolidae. *John Murray Exped. Sci. Rep.* 6 (5): 225-242, pls. 1-2, 3 text-figs.
- GOREAU, T. F. & WELLS, J. W. 1967. The shallow-water Scleractinia of Jamaica: revised list of species and their vertical distribution range. *Bull. mar. Sci.* 17 (2): 442-453, 3 figs.
- GOURRET, P. 1906. Lophohelia prolifera, Amphihelia rostrata, Amphihelia oculata. Pp. 121-122 in A. F. MARION, *Études des Coelentérés Atlantique recueillis par la commission de dragages de l'avis le Travailleur durant des campagnes 1880 et 1881. Expéd. Sci. Travailleur et Talisman*. Paris.
- GRAVIER, C. 1915. Note préliminaire sur les Madréporaires recueillis au cours des croisières de la Princesse Alice et de l'Hirondelle II, de 1893 à 1913 inclusivement. *Bull. Inst. océanogr.* 304: 22 pp., 11 figs.
- 1920. Madréporaires provenant des campagnes des yachts Princesse Alice et Hirondelle II (1893-1913). *Rés. Camp. sci. Prince de Monaco* 55: 123 pp., 16 pls.
- HICKSON, S. J. 1910. On a new octoradiate coral, *Pyrophyllia inflata* (new genus and species). *Mem. Proc. Manchester Lit. Phil. Soc.* 54 (3) 12: 1-7, 4 figs.
- HOFFMEISTER, J. E. 1933. Report on the deep-sea corals obtained by the F.I.S. Endeavour on the coasts of New South Wales, Victoria, South Australia, and Tasmania. *Biol. Res. F.I.S. Endeavour 1909-14*, 6 (1): 1-16, 4 pls.
- HORST, C. J. VAN DER 1922. The Madreporaria of the Siboga Expedition. Part 3. Eupsammidae. *Monogr. Siboga Exped.* 16c: 99-127, pls. 7-8.
- International Code of Zoological Nomenclature adopted by the XV International Congress of Zoology*. International Trust for Zoological Nomenclature, London 1964: xix + 176 pp.
- JOUBIN, L. 1928. Note sur un coralliaire du genre *Desmophyllum*. *Bull. Mus. Hist. nat. Paris* 34: 212-218, 6 figs.
- JOURDAN, E. 1895. Zoanthaires provenant des campagnes du yacht l'Hirondelle. *Rés. Camp. sci. Prince de Monaco* 8: 36 pp., 2 pls.
- KELLER, N. B. 1975. Ahermatypic Madreporarian corals of the Caribbean Sea and the Gulf of Mexico. *Trudy Inst. Okeanol.* 100: 174-187, 2 pls.
- 1976. The deep-sea Madreporarian corals of the genus *Fungiacyathus* from the Kurile-Kamchatka, Aleutian trenches and other regions of world ocean. *Trudy Inst. Okeanol.* 99: 31-44, 3 pls.
- KENT, W. S. 1870. Observations on the Madreporaria or "Stony Corals" taken in the late expedition on the yacht Norma off the coasts of Spain and Portugal. *Ann. Mag. nat. Hist.* (4) 6: 459-461.
- KIKUCHI, T. 1968. Fauna and flora of the sea around the Amakusa Marine Biological Laboratory. Part 7. Zoantharia, Coelenterata. *Contrib. Amakusa mar. Biol. Lab.* 207: 1-16, 5 pls.
- LABOREL, J. 1970. Les peuplements de madréporaires des côtes tropicales du Brésil. *Ann. Univ. Abidjan (E)* 2 (3): 261 pp., 71 figs.
- 1971. Madréporaires et Hydrocoralliaires récifaux des côtes brésiliennes. *Rés. Sci.*



- Camp. Calypso* 9, 36 (25): 171-229, 8 pls., 6 text-figs. (Also: *Ann. Inst. océanogr.*, Paris 47).
- LAMARCK, J. B. P. A. DE 1816. *Histoire naturelle des animaux sans vertèbres* ... II. *Histoire des Polypes*. Paris, 568 pp.
- LAND, S. L. & LANG, J. C. & BARNES, D. J. 1977. On the stable carbon and oxygen isotopic composition of some shallow water ahermatypic scleractinian coral skeletons. *Geochim. Cosmochim. Acta* 41: 169-172.
- LANG, J. C. 1974. Biological zonation at the base of a reef. *Am. Sci.* 62 (3): 272-281, 9 figs.
- LESUEUR, C. A. 1817. Observations on several species of the genus Actinia; illustrated by figures. *J. Acad. Nat. Sci. Philadelphia* 1: 149-154, 169-189, pl. 8.
- LEWIS, J. B. 1960. Sleractinia of Barbados. *J. Barbados Mus. Nat. Hist. Soc.* 28 (1): 11-12.
- 1965. A preliminary description of some marine benthic communities from Barbados, West Indies. *Can. J. Zool.* 43: 1049-1074, 5 figs.
- LINDSTRÖM, G. 1877. Contributions to the Actinology of the Atlantic Ocean. *Kungl. svenska Vetensk. Acad. Handl.* 14 (6): 1-26, 3 pls., 9 text-figs.
- 1884. A reply to the remarks of Prof. Duncan on a paper entitled "Contribution to the Actinology of the Atlantic Ocean". *Ann. Mag. nat. Hist.* (5) 13: 192-107.
- LINNAEUS, C. 1758. *Systema naturae* ... I. Ed. 10, 824 pp.
- 1767. *Systema naturae* ... I, 2. Ed. 12, pp. 533-1327.
- LIVINGSTON, H. D. & THOMPSON, G. 1971. Trace element concentrations in some modern corals. *Limnol. Oceanogr.* 16 (5): 786-796.
- MACINTYRE, I. G. 1970. New data on the occurrence of tropical reef corals on the North Carolina continental shelf. *J. Elisha Mitchell sci. Soc.* 86 (4): 178.
- MARENZELLER, E. VON 1904. Steinkorallen. *Wiss. Ergebn. deut. Tiefsee-Exped. Valdivia 1898-1899*, 7: 261-318, pls. 14-18.
- 1904a. Stein- und Hydrokorallen. *Bull. Mus. comp. Zool.* 43 (2): 75-87, 3 pls.
- 1907. Über den Septennachwuchs der Eupsammiden E.H. Expeditionen S.M. Schiff "Pola" in das Rote Meer. *Zoologische Ergebnisse* 24: *Denkschr. Kais. Wiss.* 80: 1-12, 7 figs.
- 1907a. Tiefseekorallen. *Exped. Pola in das Rote Meer. Zool. Ergebn.* 25: *Denkschr. Akad. Wiss.* 80: 13-25, 2 pls.
- MICHELOTTI, G. 1838. *Specimen zoophytologiae diluvianaee*. Turin, 222 pp., 7 pls.
- MILNE EDWARDS, H. & HAIME, J. 1848. Recherches sur les polypiers. Mémoire 2. Monographie des Turbinolides. *Ann. Sci. nat. Paris* (3) 9: 211-344, pls. 7-10.
- 1848a. Recherches sur les polypiers. Mémoire 3. Monographie des Eupsammides. *Ann. Sci. nat., Paris* (3) 10: 65-114, 1 pl.
- 1848b. Recherches sur les polypiers. Mémoire 4. Monographie des Astréides. *Ann. Sci. nat., Paris* (3) 10: 209-320, pls. 5-9.
- 1849. Mémoire sur les polypiers appartenant à la famille des Oculinides, au groupe intermédiaire des pseudastréides et à la famille des Fongides. *Acad. Sci. Paris C. R.* 29: 67-73.
- 1850. *A monograph of the British fossil corals. Part 1. Introduction: Corals of the Tertiary and Cretaceous formations*. Paleontographical Society, London, lxxxv + 71 pp., 11 pls.
- 1850a. Recherches sur les polypiers. Mémoire 5. Monographie des Oculinides. *Ann. Sci. nat., Paris* (3) 13: 63-110, pls. 3-4.
- 1857-1860. *Histoire naturelle des Coralliaires ou polyypes proprement dits*. Roret,

- Paris. 1 (1857), viii + 326 pp.; 2 (1857), 633 pp.; 3 (1860), 560 pp.; *atlas* (1857), 31 pls.
- MOORE, D. R. & BULLIS, H. R. 1960. A deep-water coral reef in the Gulf of Mexico. *Bull. mar. Sci.* 10 (1): 125-128, 2 figs.
- MOSELEY, H. N. 1876. Preliminary report to Professor Wyville Thomson . . . on the true corals dredged by the H.M.S. Challenger in deep water between the dates Dec. 30th, 1870, and August 31st, 1875. *Proc. roy. Soc. London* 24: 544-569, 1 fig.
- 1881. Report on certain Hydroid, Alcyonarian, and Madreporarian corals procured during the voyage of the H.M.S. Challenger, in the years 1873-1876. Part 3. On the deep-sea Madreporaria. *Rep. sci. Res. Challenger (Zool.)* 2: 127-208, 16 pls., 21 text-figs.
- NOBRE, A. 1931. *Contribuições para o estudo dos Coelenterados de Portugal*. Porto, 82 pp., 20 pls.
- PACKARD, A. S. 1873. Occurrence of a deep-sea Floridian coral near Cape Cod. *Amer. Nat.* 7: 744-745.
- PALLAS, P. S. 1766. *Elenchus Zoophytorum*. Hague-Comitum, xvi + 28 + 451 pp.
- PHILIPPI, R. A. 1842. Zoologische Beobachtungen. 6. Verzeichniss der im Mittelmeer von mir beobachteten Arten Cyathina Ehrenberg. *Arch. Naturgesch.* 8 (1): 40-45.
- PORTER, J. W. 1972. Ecology and species diversity of coral reefs on opposite sides of the Isthmus of Panama. Pp. 89-116 in M. L. JONES, ed. *The Panamic Biota: some observations prior to a sea-level canal*. *Bull. Biol. Soc. Wash.* 2.
- POURTALÈS, L. F. 1867. Contributions to the fauna of the Gulf Stream at great depths. *Bull. Mus. comp. Zool.* 1 (6): 103-120.
- 1868. Contributions to the fauna of the Gulf Stream at great depths. (second series). *Bull. Mus. comp. Zool.* 1 (7): 121-141.
- 1871. Deep-Sea corals. *Illustr. Cat. Mus. comp. Zool.* 4: 93 pp., 8 pls. (*Mem. Mus. comp. Zool.* 2).
- 1874. Zoological results of the Hassler expedition. Crinoids and Corals. *Illustr. Cat. Mus. comp. Zool.* 8: 33-50, pls. 6-9. (*Mem. Mus. comp. Zool.* 4).
- 1878. Reports on the results of dredging . . . by the Blake. Corals. *Bull. Mus. comp. Zool.* 5 (9): 197-212, 1 pl.
- 1880. Reports on the results of dredging . . . by the Blake. Report on the corals and Antipatharia. *Bull. Mus. comp. Zool.* 6 (4): 95-120, 3 pls.
- RALPH, P. M. & SQUIRES, D. F. 1962. The extant Scleractinian corals of New Zealand. *Zool. Publ. Victoria Univ. Wellington* 29: 1-19, 8 pls., 1 text-fig.
- RATHBUN, R. 1888. Catalogue of the specimens of corals belonging to the genus Madrepora, contained in the United States National Museum. *Proc. U.S. Nat. Mus.* 10: 10-19.
- RIDLEY, S. O. 1881. Account of the zoological collections made during the survey of H.M.S. Alert in the Straits of Magellan and on the coast of Patagonia. X. Coelenterata. *Proc. Zool. Soc. London*, 1881: 101-107, pl. 6.
- ROOS, P. J. 1971. The shallow-water stony corals of the Netherlands Antilles. *Stud. Fauna Curaçao* 37 (103): 108 pp., 53 pls.
- ROSSI, L. 1958. Contributo allo studio della fauna di profundita vivente presso la reviera Ligure di Levante. *Doriana* 2 (92): 1-13, 2 figs.
- 1960. Madréporaires. Rés. sci. Camp. Faial Portugal 1957. *Gab. Est. Pesc.* 3: 1-13, 3 pls.

- 1961. Études sur le seuil Siculo-Tunisien. 6. Madréporaires. *Ann. Inst. océanogr.* 39: 33–48.
- ROULE, L. 1896. Coelentérés. *Rés. sci. Camp. Caudan* 2: 299–323. (*Ann. Univ. Lyon* 26).
- SCATTERDAY, J. W. 1974. Reefs and associated coral assemblages off Bonaire, Netherlands Antilles, and their bearing on Pleistocene and Recent reef models. Pp. 85–106 in A. M. CAMERON *et al.*, eds. *Second Intern. Sympos. Coral Reefs*. Great Barrier Reef Committee, Brisbane.
- SCLATER, W. L. 1886. On a new Madreporarian coral of the genus *Stephanocyathus* from the British seas, with notes on its anatomy. *Proc. zool. Soc. London*, 1886: 128–136, pls. 12–14.
- SEGUENZA, G. 1864. Disquisizioni paleontologiche intorno ai Corallarii fossili delle rocce terziarie del distretto di Messina. *Mem. real. Acad. Sci. Torino* (2) 21: 399–560, 15 pls.
- SEMPER, C. 1872. Ueber Generationswechsel bei Steinkorallen und über das M.-Edwards'sche Wachstumsgesetz der Polypen. *Zeitschr. wiss. Zool.* 22: 235–280, pls. 16–21.
- SORAU, J. E. & JELL, J. S. 1977. Structure and incremental growth in the ahermatypic coral *Desmophyllum cristagalli* from the North Atlantic. *Paleontology* 20 (1): 1–19, pls. 1–8.
- SORAU, J. E. & PODOFF, N. 1977. Skeletal structure in deep water ahermatypic corals. Pp. 2–11, pls. 1–4 in J. P. CHEVALIER, ed., *Proc. Second Intern. Sympos. Corals and fossil coral reefs*. Paris.
- SQUIRES, D. F. 1958. Stony corals from the vicinity of Bimini, Bahamas, British West Indies. *Bull. amer. Mus. nat. Hist.* 115 (4): 221–262, pls. 28–43.
- 1959. Deep sea corals collected by the Lamont Geological Observatory. 1. Atlantic corals. *Amer. Mus. Novit.* 1965: 1–42, 24 figs.
- 1961. Deep sea corals collected by the Lamont Geological Observatory. 2. Scotia Sea corals. *Amer. Mus. Novit.* 2046: 1–48, 31 figs.
- 1963. Modern tools probe deep water. *Nat. Hist.* 72 (6): 22–29, 11 figs.
- 1964. Biological results of the Chatham Islands 1954 expedition. Part 6. Scleractinia. *Bull. N. Z. Dep. sci. ind. Res.* 139 (6): 1–31.
- 1964a. New stony corals (Scleractinia) from Northeastern New Zealand. *Rec. Auckland Inst. Mus.* 6 (1): 1–9, 2 pls.
- 1965. A new record for *Leptopenus*, a rare deep-water coral. *Nature* 207 (4999): 878–879, 1 fig.
- 1967. The evolution of the deep-sea family Micrabaciidae. *Stud. trop. Oceanogr.* 5: 502–510.
- 1969. Distribution of selected groups of marine invertebrates in waters south of 35° latitude: Scleractinia. *Antarctic Map Folio Series, Amer. Geog. Soc. New York* 11: 15–18, pl. 6.
- SQUIRES, D. F. & KEYES, I. W. 1967. The marine fauna of New Zealand: Scleractinian corals. *Bull. N. Z. Dep. sci. ind. Res.* 185: 1–46, 6 pls., 7 text-figs.
- STEPHENS, J. 1909. Alcyonarian and Madreporarian corals of the Irish coasts. *Fisheries Ireland, sci. Invest.* 1907, 5: 1–28, 1 pl.
- STETSON, T. R. & SQUIRES, D. F. & PRATT, R. M. 1962. Coral banks occurring in deep water on the Blake Plateau. *Amer. Mus. Novit.* 2114: 1–39, 15 figs.
- STUDER, T. 1878. Übersicht der Steinkorallen aus der Familie der Madreporaria aporosa, Eupsammina und Turbinarina, welche auf der Reise S.M.S. Gazelle

- um die Erde gesammelt wurden. *Monatber. kön. preuss. Akad. Wiss. Berlin* 1877: 625-655, 4 pls.
- 1879. Neue Trochosmilia von Westafrika. *Abhandl. Mitth. naturf. Ges. Bern* 1 (1878): 176.
- 1879a. Übersicht der Anthozoa Alcyonaria, welche während der Reise S.M.S. Gazelle um die Erde gesammelt wurden. *Monatber. kön. preuss. Akad. Wiss. Berlin* 1878: 632-688, 5 pls.
- TEICHERT, C. 1958. Cold- and deep-water coral banks. *Bull. Amer. Assoc. Pet. Geol.* 42 (5): 1064-1082, 3 figs.
- TENISON-WOODS, J. E. 1878. On some Australian Tertiary corals. *J. Proc. roy. Soc. New South Wales* 11: 183-195, 2 pls.
- 1879. On some Australian Tertiary fossil corals and Polyzoa. *J. Proc. roy. Soc. New South Wales* 12: 57-61, 1 pl.
- THOMPSON, J. A. 1931. Alcyonarians and solitary corals. *Rep. sci. Res. Michael Sars North Atlantic Deep-Sea Exped.* 1910, 5: 1-10, 2 pls.
- THOMSON, C. W. 1878. *The voyage of the Challenger. Volume 2. The Atlantic.* New York, 340 pp., pls. 15-42, 62 figs.
- TIZARD, R. N. & MOSELEY, H. N. & BUCHANAN, J. Y. & MURRAY, J. 1885. Narrative. *Report on the scientific results of the voyage of the H.M.S. Challenger during the years 1873-76.* Volume 1, part 2: 510-1100, pls. F-O, XX-XXXV, text-figs. 179-340.
- TOMMASI, L. R. 1970. Nota sobre os fundos detríticos do circalitoral inferior da plataforma continental Brasileira ao sul do Cabo Frio (RJ). *Bolm. Inst. oceanogr. S. Paulo* 18 (1): 55-62, 8 figs.
- UTINOMI, H. 1965. A revised catalogue of Scleractinian corals from the southwest coast of Sikoku in the collections of the Ehime University and the Ehime Prefectural Museum, Matuyama. *Publ. Seto mar. biol. Lab.* 13 (3): 243-261.
- VAUGHAN, T. W. 1901. The stony corals of the Porto Rican waters. *Bull. U.S. Fish Comm.*, 1900, 20 (2): 290-320, 38 pls.
- 1906. A new species of *Coenocyathus* from California and the Brazilian astrangid corals. *Proc. U.S. nat. Mus.* 30 (1477): 847-850, pls. 77-78.
- 1906a. Reports on the scientific results of the expedition to the eastern tropical Pacific ... by the U.S. Fish Commission Steamer Albatross from October, 1904, to March, 1905. 6. Madreporaria. *Bull. Mus. comp. Zool.* 50 (3): 61-72, pls. 1-10.
- 1907. Recent Madreporaria of the Hawaiian Islands and Laysan. *Bull. U.S. nat. Mus.* 59: 427 pp., 96 pls.
- 1919. Fossil corals from Central America, Cuba, and Porto Rico, with an account of the American Tertiary, Pleistocene, and Recent coral reefs. *Bull. U.S. nat. Mus.* 103: vi + 189-524 pp., pls. 68-152.
- VAUGHAN, T. W. & WELLS, J. W. 1943. Revision of the suborders, families, and genera of the Scleractinia. *Geol. Soc. Amer., Spec. Pap.* 44: 363 pp., 51 pls., 39 text-figs.
- VERRILL, A. E. 1870. Contributions to zoology from the museum of Yale College. Number 7. Descriptions of new corals. *Amer. J. Arts Sci.* (2) 49: 370-375, 4 figs.
- 1878. Brief contributions to zoology from the museum of Yale College. Number 39. Notice of recent additions to the marine fauna of the eastern coast of North America, no. 2. *Amer. J. Arts Sci.* (3) 16: 371-378.

- 1882. Notice of the remarkable marine fauna occupying the outer banks off the southern coast of New England, no. 5. *Amer. J. Arts Sci* (3) 23: 309-316.
- 1882a. Notice of the remarkable marine fauna occupying the outer banks off the southern coast of New England, no. 6. *Amer. J. Arts Sci.* (3) 23: 406-408.
- 1883. Reports on the results of dredging . . . by the U.S. Coast Survey Steamer Blake. Report on the Anthozoa, and on some additional species dredged by the Blake in 1877-79, and by the U.S. Fish Commission Steamer Fish Hawk in 1880-82, number 21. *Bull. Mus. comp. Zool.* 11 (1): 1-72, 8 pls.
- 1885. Notice of the remarkable marine fauna occupying the outer banks off the southern coast of New England, no. 11. *Amer. J. Arts Sci.* (3) 29: 149-157.
- 1885a. Results of the explorations made by the Steamer Albatross, off the northern coast of the United States, in 1883. *Ann. Rep. U.S. Comm. Fish Fisheries, 1883*: 503-699, 44 pls.
- 1901. Variations and nomenclature of Bermudian, West Indian, and Brazilian coral reefs, with notes on various Indo-Pacific corals. *Trans. Connecticut Acad. Arts Sci.* 11: 63-168, pls. 10-35.
- 1908. Some singular cases of regeneration and increase in a deep-sea coral by agamic endogenesis. *Science* 27: 449.
- 1908a. Distribution and variations of the deep-sea stony corals from off the coast of the United States. *Science* 27: 494.
- WAGENAAR HUMMELINCK, P. 1953. Description of new localities. *Stud. Fauna Curaçao* 4 (17): 1-108, 8 pls., 26 figs.
- 1977. Marine localities. *Stud. Fauna Curaçao* 51 (167): 1-68, 55 pls., 14 figs.
- WEISBORD, N. E. 1968. Some late Cenozoic stony corals from northern Venezuela. *Bull. amer. Paleont.* 55 (246): 281 pp., 12 pls.
- WELLS, J. W. 1933. Corals of the Cretaceous of the Atlantic and Gulf coastal plain and western interior of the United States. *Bull. amer. Paleont.* 18 (67): 85-288, pls. 1-16.
- 1936. The nomenclature and type species of some genera of Recent and fossil corals. *Amer. J. Arts Sci.* (5) 31: 97-134.
- 1937. Coral studies. Part 1. Two new species of fossil corals. *Bull. amer. Paleont.* 23 (79): 237-241, 1 pl.
- 1947. Coral studies. Part 3. Three new Cretaceous corals from Texas and Alabama. *Bull. amer. Paleont.* 31 (123): 165-168, pl. 10.
- 1947a. Coral studies. Part 5. A new Coenocyathus from Florida. *Bull. amer. Paleont.* 31 (123): 170-171, pl. 11.
- 1956. Scleractinia. Pp. 328-444, figs. 222-339 in R. C. MOORE, ed. *Treatise on Invertebrate Paleontology, Part F, Coelenterata*. Lawrence, Kansas.
- 1958. Scleractinian corals. *Rep. B.A.N.Z. Antarctic Res. Exped. 1929-1931, (B)* 6 (11): 257-275, 2 pls.
- 1964. Ahermatypic corals from Queensland. *Univ. Queensland Pap. Dep. Zool.* 2 (6): 107-121, 3 pls.
- 1972. Some shallow-water ahermatypic corals from Bermuda. *Postilla* 156: 10 pp., 3 pls.
- 1973. New and old Scleractinian corals from Jamaica. *Bull. mar. Sci.* 23 (1): 16-55, 36 figs.
- 1973a. *Guynia annulata* (Scleractinia) in Jamaica. *Bull. mar. Sci.* 23 (1): 59-63, 3 figs.
- 1976. Eocene corals from Eua, Tonga. *Geol. Survey prof. Pap.* 640-G: 1-13, 3 pls., 2 text-figs.

- WELLS, J. W. & LANG, J. C. 1973. Systematic list of Jamaican shallow-water Scleractinia. *Bull. mar. Sci.* 23 (1): 55-58.
- YABE, H. & EGUCHI, M. 1932. Deep-water corals from the Riukiu Limestone of Kikai-jima, Riukiu Islands. *Proc. imp. Acad. Japan* 8 (9): 442-445, 1 fig.
- 1937. Notes on *Deltocyathus* and *Discocyathus* from Japan. *Sci. Rep. Tôhoku imp. Univ.* (2) *Geol.*, 19: 127-147, pl. 20.
- 1942. Fossil and Recent simple corals from Japan. *Sci. Rep. Tôhoku imp. Univ.* (2) *Geol.*, 22 (2): 105-178, pls. 9-12.
- ZIBROWIUS, H. 1968. Note préliminaire sur la présence à Marseille de quatre Madréporaires peu connus: *Desmophyllum fasciculatum* (Risso, 1826), *Guynia annulata* (Duncan, 1872), *Stenocyathus vermiformis* (Pourtales, 1868), et *Conotrochus magnaghii* (Cecchini, 1914). *Bull. Soc. zool. Fr.* 93 (2): 325-330.
- 1971. Remarques sur la faune sessile des grottes sous-marines et de l'étage bathyal en Méditerranée. *Rapp. Comm. int. Mer Médit.* 20 (3): 243-245, 1 fig.
- 1973. Révision des espèces actuelles du genre *Enallopsammia* Michelotti, 1871 et description de *E. marenzelleri*, nouvelle espèce bathyale à large distribution: Océan Indien et Atlantique Central (Madréporaires, Dendrophylliidae). *Beaufortia* 21 (276): 37-54, 3 pls.
- 1974. Redescription of *Sclerhelia hirtella* from Saint Helena, South Atlantic, and remarks on the Indo-Pacific species erroneously referred to the same genus (Scleractinia). *J. nat. Hist.* 8(5): 563-575, 3 pls.
- 1974a. Scléactiniaires des îles Saint Paul et Amsterdam (sud de l'Océan Indien). *Téthys* 5 (4): 747-778, 3 pls.
- 1974b. *Caryophyllia sarsiae* n. sp., and other Recent deep-water Caryophyllia (Scleractinia) previously referred to little-known fossil species (*C. arcuata*, *C. cylindracea*). *J. mar. biol. Assoc. U.K.* 54 (4): 769-784, 3 pls.
- 1974c. Révision du genre *Javania* et considérations générales sur les Flabellidae (Scléactiniaires). *Bull. Inst. océanogr.* 71 (1429): 1-48, 5 pls.
- 1976. *Les Scléactiniaires de la Méditerranée et de l'Atlantique nord-oriental*. Thèse Univ. Aix-Marseille, CNRS Archives originales 11. 515, 302 pp., 106 pls., supplement of 29 maps, 20 pp. (Unpublished).
- ZIBROWIUS, H. & GRIESHABER, A. 1977. Scléactiniaires de l'Adriatique. *Téthys* 4: 375-384.
- ZIBROWIUS, H. & SALDANHA, L. 1976. Scléactiniaires récoltés en plongée au Portugal et dans les archipels de Madère et les Açores. *Bolm. Soc. port. Ciên. nat.* 16: 91-114, 25 figs.
- ZIBROWIUS, H. & SOUTHWARD, E. C. & DAY, J. H. 1975. New observations on a little-known species of *Lumbrineris* (Polychaeta) living on various Cnidarians, with notes on its Recent and fossil Scleractinian hosts. *J. mar. biol. Assoc. U.K.* 55 (1): 83-108, 4 pls., 1 text-fig.