

# Influence of Frederick (Ted) M. Bayer on deep-water octocoral research

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## Supplement 1

Annotated list of publications by Frederick M. Bayer. (\*indicates a paper on Octocorallia; \*\*indicates a paper on deep-water Octocorallia; annotations bracketed)

- Bayer FM (1941) Notes on Florida Mollusca, with descriptions of two new varieties. *Nautilus* 55:43–46, pl 3, figs 10–11
- Bayer FM (1942a) Observations on *Mitra florida* Gould. *Nautilus* 55:77–80, 1 pl
- Bayer FM (1942b) The type locality and dates of *Pecten imbricatus mildredae* Bayer. *Nautilus* 55:106
- Bayer FM (1943a) Observations on marine Mollusca, with descriptions of new species. *Nautilus* 56:109–115, pl 14
- Bayer FM (1943b) The Florida species of the family Chamidae. *Nautilus* 56:116–123, pls 13, 15
- Bayer FM, Neurohr GN (1946) Life on a tropical Pacific reef. *Mollusca* 1(8):107–112
- Bayer FM (1948) Charles T. Simpson's types in the molluscan genus *Liguus*. *Smithsonian Misc Collect* 107(16):1–8, pl 1
- Clark AH, Bayer FM (1948) Some echinoderms from Biak, Schouten Islands. *J Wash Acad Sci* 38:143–144
- \*\*Bayer FM (1949a) The Alcyonaria of Bikini and other atolls in the Marshall Group. Part 1. The Gorgonacea. *Pac Sci* 3:195–210, pls 1–4 [Bayer's first publication on octocorals, in which he describes 4 new species, but a Part 2 was never published]
- \*\*Bayer FM (1949b) Chalcogorgiinae, a new subfamily of Chrysogorgiidae (Coelenterata: Alcyonaria), and a description of *Chalcogorgia pellucida*, new genus and new species, from the Straits of Florida. *J Wash Acad Sci* 39:237–240, 1 fig
- \*\*Bayer FM (1950a) A new precious coral from North Borneo. *J Wash Acad Sci* 40:59–61
- \*\*Bayer FM (1950b) A new species of the gorgonacean genus *Ainigmaptilon* Dean. *J Wash Acad Sci* 40:295–298
- \*\*Bayer FM (1951a) Two new primnoid corals of the subfamily Calyptrophorinae (Coelenterata: Octocorallia). *J Wash Acad Sci* 41:40–43, 2 figs
- \*\*Bayer FM (1951b) A new Caribbean coral of the genus *Chrysogorgia*. *Proc US Natl Mus* 101:269–273, 1 pl, 2 figs
- \*Bayer FM (1951c) A revision of the nomenclature of the Gorgoniidae (Coelenterata: Octocorallia), with an illustrated key to the genera. *J Wash Acad Sci* 41:91–102
- \*\*Bayer FM (1952a) A new *Calyptrophora* (Coelenterata: Octocorallia) from the Philippine Islands. *J Wash Acad Sci* 42:82–84
- \*\*Bayer FM (1952b) Descriptions and redescrptions of the Hawaiian octocorals collected by the US Fish Commission steamer 'Albatross' (1. Alcyonacea, Stolonifera, Telestacea). *Pac Sci* 6(2):126–136, 8 figs [Part 2 is Bayer (1956a), but Part 3 on the holaxonians was never published]
- \*\*Bayer FM (1952c) Two new species of *Arthrogorgia* (Gorgonacea: Primnoidae) from the Aleutian Islands region. *Proc Biol Soc Wash* 65:63–70, 2 pls
- \*Bayer FM (1952d) New western Atlantic records of octocorals (Coelenterata: Anthozoa), with descriptions of three new species. *J Wash Acad Sci* 42:183–189, 1 fig
- \*Bayer FM (1953) Zoogeography and evolution in the octocorallian family Gorgoniidae. *Bull Mar Sci Gulf Carib* 3(2):100–119, 5 figs
- \*\*Bayer FM (1954a) Anthozoa: Alcyonaria. *US Fish & Wildlife Serv, Fishery Bull* 89:279–284
- \*\*Bayer FM (1954b) New names for two genera of Octocorallia. *J Wash Acad Sci* 44:296
- \*Bayer FM (1955a) Remarkably preserved fossil sea-pens and their Recent counterparts. *J Wash Acad Sci* 45:294–300, 2 figs
- \*\*Bayer FM (1955b) Contributions to the nomenclature, systematics, and morphology of the Octocorallia. *Proc US Natl Mus* 105:207–220, 8 pls
- \*\*Bayer FM (1956a) Descriptions and redescrptions of the Hawaiian octocorals collected by the U.S Fish Commission steamer 'Albatross' (2. Gorgonacea: Scleraxonia). *Pac Sci* 10(1):67–95, 11 figs
- \*\*Bayer FM (1956b) Octocorallia. In: Moore RC (ed) *Treatise on invertebrate paleontology, Part F, Coelenterata*. Geological Society of America, Lawrence, KS, p F166–190, 192–231, figs 134–162 [discussed in text]
- \*Bayer FM (1957) Recent Octocorals. In: Ladd HS (ed) *Treatise on marine ecology and paleoecology*. *Mem Geol Soc Am* 67(1):1105–1108
- Bayer FM, Harry-Rofen RR (1957) Project coral fish looks at Palau. *Smithsonian Rep* 1956:481–508, 20 pls
- \*\*Bayer FM (1958a) Additional records of western Atlantic octocorals. *J Wash Acad Sci* 47:379–390, 4 figs [not published in 1957 as indicated on title page]
- \*Bayer FM (1958b) Les octocoralliaires plexaurides des côtes occidentales d'Amérique. *Mém Mus Natl Hist Nat (Nouv Sér A)* 16(2):41–56, 6 pls [in French]
- \*Bayer FM (1958c) A faunistic study of the shallow-water Octocorallia of the West Indian region. *Bull George Washington Univ* 58(3):3–8 [Abstract of dissertation, the fuller version published as Bayer (1961b)]

- \*Bayer FM, Deichmann E (1958) Two new plexaurid gorgonians from the Bahama Islands. *Bull Mar Sci Gulf Carib* 8(3):224–235, 5 figs
- \*Bayer FM (1959a) Further remarks on the geographical distribution of Gorgoniidae. *J Wash Acad Sci* 48:394–396, 7 figs
- \*\*Bayer FM (1959b) A review of the gorgonacean genus *Placogorgia* Studer, with a description of *Placogorgia tribuloides*, a new species from the Straits of Florida. *J Wash Acad Sci* 49:54–61, 15 figs
- \*Bayer FM (1959c) Octocorals from Surinam and the adjacent coasts of South America. *Stud Fauna Suriname Other Guyanas* 3:1–43, 21 figs
- \*Bayer FM (1959d) The alcyonarian and black corals (Anthozoa: Octocorallia and Antipatharia) described and figured by G. E. Rumphius. In: deWit HCD (ed) *Rumphius memorial volume*. Uitgeverij en Drukkerij Hollandia n.v., Baarn, p 225–247, pls 1–3
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- \*\*Bayer FM, Deichmann E (1960) The Ellisellidae (Octocorallia) and their bearing on the zoogeography of the eastern Pacific. *Proc Biol Soc Wash* 73:175–182
- Bayer FM, Fehlmann HA (1960) The discovery of a freshwater opisthobranchiate mollusk *Acochlidium amboinense* Strubell, in the Palau Islands. *Proc Biol Soc Wash* 73:183–194, 3 figs
- Bayer FM (1961a) Status of research of the Antarctic marine invertebrate fauna. In: *Science in Antarctica, Part I. The life sciences in Antarctica*. National Academy of Science–National Research Council, Publ 839, Chap 10, p 81–88
- \*\*Bayer FM (1961b) The shallow-water Octocorallia of the West Indian region. *Stud Fauna Curaçao Other Caribbean Isl* 12:i–viii, 1–373, 101 figs, 28 pls [also published as a book in January 1962 (not 1961 as indicated on title page) by Martinus Nijhoff, The Hague]
- Bayer FM (1962a) A new species of *Cephalodiscus* (Hemichordata: Pterobranchia), the first record from the tropical western Atlantic. *Bull Mar Sci Gulf Carib* 12:306–312, 6 figs
- Bayer FM (1962b) Pogonophora in the western Atlantic Ocean. *Science* 137:670, 1 fig
- Bayer FM, Owre HB (1962) The systematic position of the Middle Cambrian fossil *Amiskwia* Walcott. *J Paleont* 36:1361–1363, pl 183
- Bayer FM (1963a) Observations on pelagic mollusks associated with the siphonophores *Velevella* and *Physalia*. *Bull Mar Sci Gulf Carib* 13:454–466, figs 1–7
- Bayer FM (1963b) A new pleurotomariid gastropod trawled in the Straits of Florida by R/V *Gerda*. *Bull Mar Sci Gulf Carib* 13:488–492, fig 1
- \*\*Bayer FM (1964a) A new species of the octocorallian genus *Paragorgia* trawled in Florida waters by R/V *Gerda*. *Zool Meded, Leiden* 39:526–532, 3 figs
- \*\*Bayer FM (1964b) The genus *Corallium* (Gorgonacea: Scleraxonia) in the western North Atlantic Ocean. *Bull Mar Sci Gulf Carib* 14:465–478, 7 figs
- Bayer FM, Work RC (1964) Littoral marine life of southern Florida. *Guidebook for Field Trip No. 7*, Geological Society of America Convention, November 1964, Geological Society of America, Miami, FL
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- Bayer FM (1971a) Coral. *Nat Hist (NY)* 80(3):42–47 [Photographs by Douglas Faulkner]
- Bayer FM (1971b) New and unusual mollusks collected by R/V *John Elliott Pillsbury* and R/V *Gerda* in the tropical western Atlantic. *Bull Mar Sci* 21:111–236, 72 figs [Also issued in *Studies in Tropical American Mollusks*, University of Miami Press, Miami]
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- Olsson AA, Bayer FM (1972b) American *Metulas* (Gastropoda: Buccinidae). *Bull Mar Sci* 22:900–925, 14 figs
- \*\*Bayer FM (1973a) Colonial organization in octocorals. In: Boardman RS, Cheetham AH, Oliver WA (eds) *Animal colonies*. Dowden, Hutchinson & Ross, Stroudsburg, PA, p 69–93, 23 figs
- \*\*Bayer FM (1973b) A new gorgonacean octocoral from Jamaica. *Bull Mar Sci* 23(2):387–398 [first paper published using SEM of sclerites]
- Bayer FM (1973c) 3 claves para identificar los corales verdaderos de la Florida y regiones adyacentes. Traducción: Edmond Barrique y Jorge Barreto. *Fundacion Universidad de Bogota Jorge Tadeo Lozano*. *Mus Mar Informe* 4:18+12+5 p, mimeograph. [in Spanish]
- \*Bayer FM (1974a) *Plexaura homomalla*: brief historical background. *Stud Trop Oceanogr Miami* 12:1–8, 13 figs
- \*Bayer FM (1974b) Studies on the anatomy and histology of *Plexaura homomalla* in Florida. *Stud Trop Oceanogr Miami* 12:62–100, 62 figs
- \*Bayer FM (1974c) A new species of *Trichogorgia* and records of two other octocorals new to the Palau Islands. *Micronesica* 10:257–271, 3 figs., 3 pls
- Muzik KM, Bayer FM (1975) Rediscovery of biological treasures. *Sea Frontiers* 21:110–120, 6 color figs
- \*Bayer FM, Muzik KM (1976a) New genera and species of the holaxonian family Chrysogorgiidae (Octocorallia: Gorgonacea). *Zool Meded (Leiden)* 50(5):65–90, figs 1–10, pls 1–7
- \*Bayer FM, Muzik KM (1976b) A new solitary octocoral, *Taiaroa tauhou* gen. et sp. nov. (Coelenterata: Protoalcyonaria) from New Zealand. *J R Soc N Z* 6(4):499–515, 10 figs [describes in detail the only known species of soli-

- tary octocoral]
- \*\*Bayer FM, Grigg RW (1976) Present knowledge of the systematics and zoogeography of the order Gorgonacea in Hawaii. *Pac Sci* 30(2):167–175
- \*\*Bayer FM, Muzik KM (1977) An Atlantic helioporacean coral (Coelenterata: Octocorallia). *Proc Biol Soc Wash* 90(4):975–984
- \*Bayer FM (1979a) *Adelogorgia telones*, a new species of gorgonian coral (Coelenterata: Octocorallia) from the Galapagos Islands. *Proc Biol Soc Wash* 91(4): 1026–1036 [published 23 Feb 1979, not 1978 as might be inferred from the publication]
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- \*\*Bayer FM (1980a) *Armadillologorgia cyathella* and *Ophidiogorgia paradoxa*, two new genera and species of primnoid octocorals (Coelenterata: Anthozoa) from South Georgia and South Orkney Islands. *Proc Biol Soc Wash* 93(1): 216–228, figs. 1–5
- \*Muzik KM, Bayer FM (1980) *Melithaea* Milne Edwards and Haime, 1857 and *Isis ochracea* Linnaeus, 1758 (Coelenterata, Anthozoa): proposed conservation. *Bull Zool Nomencl* 37(4):228–232
- \*Bayer FM (1981a) *Pseudoplumarella echidna*, a new species of primnoid octocoral from Queensland (Coelenterata: Anthozoa). *Proc Biol Soc Wash* 94(2):622–630, figs 1–6
- \*\*Bayer FM (1981b) Status of knowledge of octocorals of world seas. *Seminários de Biologia Marinha, Academia Brasileira de Ciências, Rio de Janeiro*, p 3–11, fig 1
- \*Bayer FM (1981c) Utilization and conservation of *Plexaura homomalla*. *Seminários de Biologia Marinha, Academia Brasileira de Ciências, Rio de Janeiro*, p 13–17
- \*\*Bayer FM (1981d) Recent advances in research on octocorals. *Seminários de Biologia Marinha, Academia Brasileira de Ciências, Rio de Janeiro*, p 1928, figs 1–7
- \*\*Bayer FM (1981e) Bibliography of Octocorallia 1469–1977. *Seminários de Biologia Marinha, Academia Brasileira de Ciências, Rio de Janeiro*, p 29–102 [discussed in text]
- \*\*Bayer FM (1981f) On some genera of stoloniferous octocorals (Coelenterata: Anthozoa), with descriptions of new taxa. *Proc Biol Soc Wash* 94(3):878–901, figs 1–6
- \*\*Bayer FM (1981g) Key to the genera of Octocorallia exclusive of Pennatulacea (Coelenterata: Anthozoa), with diagnoses of new taxa. *Proc Biol Soc Wash* 94(3):902–947, figs 180 [discussed in text]
- \*\*Bayer FM (1982a) Some new and old species of the primnoid genus *Callogorgia* Gray, with a revalidation of the related genus *Fanellia* Gray (Coelenterata: Anthozoa). *Proc Biol Soc Wash* 95(1):116–160, figs 1–29
- \*Bayer FM (1982b) Octocoral workshop – summary of activities. *Bull Mar Sci* 32(4):952–954
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- Bayer FM (1985) Invertebrates of the US Exploring Expedition. In: Viola H., Margolis C (eds) *Magnificent voyagers*. Smithsonian Institution Press, Washington, DC, p 70–87
- \*\*Bayer FM, Stefani J (1987a) Isidiidae (Gorgonacea) de Nouvelle-Calédonie—Nouvelle clé des genres de la famille. *Bull Mus Natl Hist Nat (4 Sér) 9 (Sect A)* 1:47–106, pls 1–30 [in French]
- \*\*Bayer FM, Stefani J (1987b) New and previously known taxa of isidid octocorals (Coelenterata: Gorgonacea), partly from Antarctic waters. *Proc Biol Soc Wash* 100(4): 937–991, figs 1–30
- \*\*Bayer FM (1988a) *Mirostenella articulata*, a remarkable new genus and species of primnoid octocoral (Gorgonacea) with uncalcified axial nodes. *Proc Biol Soc Wash* 101(2):251–256, figs 1–3
- Bayer FM (1988b) Message [honoring His Majesty Hirohito, Emperor of Japan, in connection with a special exhibition]. In: Tenno Heika no Seibutsugaku go Kenkyu [His Majesty the Emperor's Biological Research]. Kokuritsu Kagaku Hakubutsukan, Tokyo [National Science Museum]
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- \*\*Verseveldt J, Bayer FM (1988) Revision of the genera *Bellonella*, *Eleutherobia*, *Nidalia* and *Nidaliopsis* (Octocorallia: Alcyoniidae and Nidaliidae), with descriptions of two new genera. *Zool Verh (Leiden)* 245:1–131, figs 1–64
- \*\*Bayer FM (1989) A new isidid octocoral (Coelenterata: Gorgonacea) from the Galapagos Rift. *Boll Zool* 10:197–208, fig 1, pls 1–3 [published in 1989, not 1986 as indicated on title page]
- \*\*Bayer FM, Stefani J (1989) Primnoidae (Gorgonacea) de Nouvelle-Calédonie. *Bull Mus Natl Hist Nat (4 Sér) 10 (Sect A)* 3:449–518, pls 1–42 [published 27 January 1989, not 1988 as indicated on title page, in French]
- \*\*Bayer FM (1990a) A new isidid octocoral (Anthozoa: Gorgonacea) from New Caledonia, with descriptions of other new species from elsewhere in the Pacific Ocean. *Proc Biol Soc Wash* 103(1):205–228, figs 114
- Bayer FM (1990b) Comments upon killing the holy cow. *Taxon* 39(2):244
- \*\*Bayer FM (1990c) The identity of *Fannyella rossii* J. E. Gray (Coelenterata: Octocorallia). *Proc Biol Soc Wash* 103(4): 773–783, figs 1–6
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- \*\*Bayer FM (1992a) *Thelogorgia*, a new genus of gorgonacean octocorals, with descriptions of four new species from the western Atlantic. *Bull Mar Sci* 49(1/2):506–537, figs 1–23
- \*\*Bayer FM (1992b) The helioporacean octocoral *Epiphaxum* recent and fossil: a monographic iconography. *Stud Trop Oceanogr* 15:i–viii + 1–76, 62 figs [discussed in text]
- \*\*Bayer FM (1993a) Taxonomic status of the octocoral genus *Bathyalcyon* (Alcyoniidae: Anthomastinae), with descriptions of a new subspecies from the Gulf of Mexico and a new species of *Anthomastus* from Antarctic waters. *Precious Corals Octocoral Res (Tokyo)* 1:3–13, pls 1–9
- \*\*Bayer FM (1993b) Generic reassignment and affinities of *Sympodium salomonense* Thomson & Mackinnon (Coelenterata: Octocorallia). *Precious Corals Octocoral Res (Tokyo)* 1:14–19, pls 10–17
- \*\*Bayer FM (1993c) Two new species of the gorgonacean genus *Paragorgia* (Coelenterata: Octocorallia). *Precious Corals Octocoral Res (Tokyo)* 2:1–40, figs 1–3 [Fig. 1 (p. 8) transposed with fig. 3 (p. 18) of following paper: Bayer (1993d)]
- \*\*Bayer FM (1993d) A new scleraxonian octocoral (Coelenterata: Anthozoa) from Antarctic waters. *Precious Corals Octocoral Res (Tokyo)* 2:11–18, figs 1–3 [Fig. 3 (p 18) transposed with Fig. 1 (p 8) of preceding title: Bayer (1993c)]

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- \*Bayer FM (1994b) A new species of the gorgonacean genus *Muricea* (Coelenterata: Octocorallia) from the Caribbean Sea. *Precious Corals Octocoral Res (Tokyo)* 3:23–27, pls 3–7
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- \*\*Bayer FM (1995b) A new species of the gorgonacean genus *Narella* (Anthozoa: Octocorallia) from Hawaiian waters. *Proc Biol Soc Wash* 108(1):147–152, figs 1–3
- \*Bayer FM (1995c) Two new species of the alcyonacean genus *Protodendron* (Octocorallia: Alcyoniidae) from the Indian Ocean off Natal. *Bull Mar Sci* 57(2):301–312, figs 1–8
- \*\*Bayer FM, Grasshoff M (1995) Two new species of the gorgonacean genus *Ctenocella* (Coelenterata: Anthozoa, Octocorallia) from deep reefs in the western Atlantic. *Bull Mar Sci* 56(2):597–624, figs 1–23
- \*\*Bayer FM (1996a) New primnoid gorgonians (Coelenterata: Octocorallia) from Antarctic waters. *Bull Mar Sci* 58(2):511–530, figs 1–16
- \*\*Bayer FM (1996b) The Antarctic genus *Callozostron* and its relationship to *Primnoella* (Octocorallia, Gorgonacea: Primnoidae). *Proc Biol Soc Wash* 109(1):150–203, 38 figs
- \*Bayer FM (1996c) A new species of *Acanthogorgia* (Anthozoa: Octocorallia) from Aldabra Atoll. *Precious Corals Octocoral Res (Tokyo)* 4–5:1–16, 8 figs
- \*\*Bayer FM (1996d) Three new species of precious coral (Anthozoa: Gorgonacea, genus *Corallium*) from Pacific waters. *Proc Biol Soc Wash* 109(2):205–228, figs 1–19
- \*\*Bayer FM (1996e) Bibliography of Octocorallia from Pliny to the Present. <http://www.calacademy.org/research/izg/Octocoralbiblio.htm> (accessed 10 November 2008) [electronic version of Bayer (1981e)]
- \*\*Bayer FM (1996f) The gorgonacean genus *Arthrogorgia* (Octocorallia: Primnoidae). *Proc Biol Soc Wash* 109(4):605–628, figs 1–20
- \*Bayer FM, Grasshoff M (1997a) *Riisea* and *riisei* Duchassaing & Michelotti, 1860 (Cnidaria, Anthozoa): proposed conservation as the correct original spellings of generic and specific names based on the surname Riise. (Case 2940). *Bull Zool Nomencl* 54(1):11–13
- \*\*Bayer FM, Grasshoff M (1997b) *Umbellula* Cuvier, [1797] (Cnidaria, Anthozoa): proposed conservation as the correct original spelling, and corrections of the entries relating to *Umbellularia* Lamarck, 1801 on the Official Lists and Indexes of Names in Zoology. *Bull Zool Nomencl* 54(1):14–17
- \*\*Bayer FM (1997) *Narella nuttingi*, a new gorgonacean octocoral of the family Primnoidae (Anthozoa) from the eastern Pacific. *Proc Biol Soc Wash* 110(4):511–519, figs 1–5
- \*\*Bayer FM (1998) A review of the circumaustral gorgonacean genus *Fannyella* Gray, 1870 with descriptions of five new species (Coelenterata: Octocorallia: Primnoidae). *Senckenberg Biol* 77(2):161–204, figs 1–61
- \*\*Bayer FM (2000) A new species of *Leptogorgia* from the eastern Pacific (Coelenterata: Octocorallia: Holaxonia). *Proc Biol Soc Wash* 113(3):609–616, figs 1–5
- \*Macintyre IG, Bayer FM, Logan MAV, Skinner HCW (2000) Possible vestige of early phosphatic biomineralization in gorgonian octocorals. *Geology* 28(5):455–458
- \*\*Bayer FM (2001) New species of *Calyptrophora* (Coelenterata: Octocorallia: Primnoidae) from the western part of the Atlantic Ocean. *Proc Biol Soc Wash* 114(2):365–378, figs 1–6
- \*Bayer FM, Macintyre IG (2001) The mineral component of the axis and holdfast of some gorgonacean octocorals (Coelenterata: Anthozoa), with special reference to the family Gorgoniidae. *Proc Biol Soc Wash* 114(1):309–345, figs 1–23, Table 1
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- \*Bayer FM (2002) Octocoral research—past, present and future. *Atoll Res Bull* 494:78–106, 8 figs [including a short autobiography; published May 2002, not Dec 2001 as indicated on title page]
- \*\*Cairns SD, Bayer FM (2002) Studies on western Atlantic Octocorallia (Coelenterata: Anthozoa). Part 2. The genus *Callogorgia* Gray, 1858. *Proc Biol Soc Wash* 115(4):840–867, 11 figs
- \*\*Bayer FM, Cairns SD (2003) A new genus of the scleraxonian family Coralliidae (Octocorallia: Gorgonacea). *Proc Biol Soc Wash* 116(1):222–228, 2 figs
- \*\*Cairns SD, Bayer FM (2003) Studies on western Atlantic Octocorallia (Coelenterata: Anthozoa). Part 3. The genus *Narella* Gray, 1870. *Proc Biol Soc Wash* 116(2):617–648, 14 figs
- \*\*Cairns SD, Bayer FM (2004a) *Narella regularis* (Duchassaing and Michelotti, 1860) (Coelenterata: Octocorallia: Primnoidae): proposed conservation of prevailing usage by a neotype. *Bull Zool Nomencl* 61(1):7–10, 1 fig
- \*\*Cairns SD, Bayer FM (2004b) Studies on western Atlantic Octocorallia (Coelenterata: Anthozoa). Part 4. The genus *Paracalyptrophora* Kinoshita, 1908. *Proc Biol Soc Wash* 177(1):174–199, 12 pls
- \*\*Cairns SD, Bayer FM (2004c) Studies on western Atlantic Octocorallia (Coelenterata: Anthozoa). Part 5. The genera *Plumarella* Gray, 1870; *Acanthoprimnoa*, n. gen.; and *Candidella* Bayer, 1954. *Proc Biol Soc Wash* 117(4):447–487, 14 pls
- \*Bayer FM, Cairns SD (eds) (2004) The unpublished plates for A. E. Verrill's unfinished report on the Alcyonaria of the 'Blake' expeditions. Dept of Zool, National Museum of Natural History, Washington, DC, p i–viii, 156 pls
- \*\*Cairns SD, Bayer FM (2005) A review of the genus *Primnoa* (Octocorallia: Gorgonacea: Primnoidae), with the description of two new species. *Bull Mar Sci* 77(2):225–256, 11 pls
- \*\*Cairns SD, Bayer FM, Fautin DG (2007) *Galatheaanthemum profundale* (Anthozoa: Actiniaria) in the western Atlantic. *Bull Mar Sci* 80(1):191–200, 6 figs
- \*\*Cairns SD, Bayer FM (2008) A review of the Octocorallia (Cnidaria: Anthozoa) from Hawai'i and adjacent seamounts: the genus *Narella* Gray, 1870. *Pac Sci* 62(1):83–115, 17 pls
- \*\*Cairns SD, Bayer FM (2009) A generic revision and phylogenetic analysis of the Primnoidae (Cnidaria: Octocorallia). *Smithsonian Cont Zool* 629:1–79, 19 pls
- \*\*Cairns SD, Bayer FM (2009) Octocorallia (Cnidaria: Anthozoa) of the Gulf of Mexico. In: Felder DF, Camp DK (eds) *Gulf of Mexico – its origin, waters, and biota*. Texas A&M University Press, College Station, TX, 321–331 [This is an update of the book containing Bayer (1954a), Bayer being the only author from the original 54 to write an update of his own section 54 years later]

## Unpublished and Unfinished Manuscripts

- \*\*Bayer FM (unpubl. ms 1) Morphology and formation of the calcareous axis in precious corals, family Coralliidae, with an atlas of microstructure. [16 p text and 50 pls, text complete, plates only as mock up, includes diagnoses and key to all species, 2 new species]
- \*\*Bayer FM (unpubl. ms 2) A review of the octocorallian genus *Paragorgia*. [32 p and numerous unfinished plates, several new species]
- \*\*Bayer FM (unpubl. ms 3) Form and function in octocoral sclerites. [31 p, figures not assembled: an insightful analysis of the functional morphology of many of the sclerite classes]
- \*\*Bayer FM (unpubl. ms 4) On the status of *Sarcodictyon rugosum* Pourtalès and *Scleranthelia musiva* Studer (Coelenterata: Octocorallia). [9 p, 4 finished pls]
- \*\*Bayer FM (unpubl. ms 5) A worldwide revision of the gorgonacean genus *Bebryce* (Coelenterata: Octocorallia). [76 p, numerous unfinished pls]
- \*Bayer FM (unpubl. ms 6) Telestaceans (Anthozoa: Octocorallia) from Indo-Pacific waters, with descriptions of new species of *Telesto* and *Paratelesto* and amplified descriptions of other genera and species. [22 p, numerous unfinished plates]
- \*\*Bayer FM (unpubl. ms 7) Morphology, anatomy and histology of a gorgonian coral: *Adelogorgia*. [rough hand-written text and several finished plates]
- \*\*Bayer FM, Grasshoff M (unpubl. ms 8) New species of ellisellid gorgonians from diverse localities. [13 p, plates unfinished]
- Bayer FM (unpubl. ms 9) A new creeping ctenophore from the western Atlantic. [10 p, 2 pls]

## Supplement 2

List of octocoral taxa described by F. M. Bayer

## Families and subfamilies (indented)

Chalcogorgiinae Bayer, 1949b  
 Ifalukellidae Bayer, 1955b  
 Lithotelestidae Bayer & Muzik, 1977  
 Taiaroidae Bayer & Muzik, 1976b  
 Viguieriotidae Bayer, 1954b

## Genera and subgenera (indented), alphabetically arranged by family and genus

*Inflatocalyx* Verseveldt & Bayer, 1988 (ALCYONIIDAE)  
*Rhizalcyon* Bayer, 1995a (ALCYONIIDAE)  
*Briareopsis* Bayer, 1993d (ANTHOTHELIDAE)  
*Chalcogorgia* Bayer, 1949b (CHRYSOGORGIIDAE)  
*Distichogorgia* Bayer, 1979c (CHRYSOGORGIIDAE)  
*Helicogorgia* Bayer, 1981g [nom nov. for *Hicksonella* Simpson, 1910] (CHRYSOGORGIIDAE)  
*Stephanogorgia* Bayer & Muzik, 1976a (CHRYSOGORGIIDAE)  
*Xenogorgia* Bayer & Muzik, 1976a (CHRYSOGORGIIDAE)  
*Bathytelesto* Bayer, 1981f (CLAVULARIIDAE)  
*Rhodelinda* Bayer, 1981f (CLAVULARIIDAE)  
*Scyphopodium* Bayer, 1981f (CLAVULARIIDAE)  
*Stereotelesto* Bayer, 1981f (CLAVULARIIDAE)  
*Tesseranthelia* Bayer, 1981f (CLAVULARIIDAE)  
*Paracorallium* Bayer & Cairns, 2003 (CORALLIIDAE)  
*Adelogorgia* Bayer, 1958b (GORGONIIDAE)  
*Antillogorgia* Bayer, 1951c [junior synonym of *Pseudopterogorgia*] (GORGONIIDAE)  
*Rumphella* Bayer, 1955b (GORGONIIDAE)  
*Olindagorgia* Bayer, 1981g (GORGONIIDAE)  
*Pacifigorgia* Bayer, 1951c (GORGONIIDAE)  
*Ifalukella* Bayer, 1955b (IFALUKELLIDAE)  
*Australis* Bayer & Stefani, 1987b (ISIDIDAE)  
*Caribisis* Bayer & Stefani, 1987b (ISIDIDAE)  
*Orstomisis* Bayer, 1990a (ISIDIDAE)  
*Stenisis* Bayer & Stefani, 1987b (ISIDIDAE)  
*Tenuisis* Bayer & Stefani, 1987b (ISIDIDAE)  
*Idelogorgia* Bayer, 1981g [nom. nov. for *Dendrogorgia* Simpson, 1910] (KEROEIDIDAE)  
*Thelogorgia* Bayer, 1992a (KEROEIDIDAE)  
*Lithotelesto* Bayer & Muzik, 1977 [junior synonym of *Epiphaxum* Lonsdale, 1850] (LITHOTELESTIDAE)  
*Pieterfaurea* Verseveldt & Bayer, 1988 (NIDALIIDAE)  
*Lytrea* Bayer, 1981g (PLEXAURIDAE)  
*Nicaule* Bayer, 1981g [junior synonym of *Bebryce*] (PLEXAURIDAE)  
*Acanthoprinnia* Cairns & Bayer, 2004c (PRIMNOIDAE)  
*Aglaoprinnia* Bayer, 1996a (PRIMNOIDAE)

*Armadillologorgia* Bayer, 1980a (PRIMNOIDAE)  
*Australogorgia* Cairns & Bayer, 2009 (PRIMNOIDAE)  
*Candidella* Bayer, 1954b [nom. nov. for *Stenella* Gray, 1870] (PRIMNOIDAE)  
*Convexella* Bayer, 1996b (PRIMNOIDAE)  
*Fannyella* (*Cyathogorgia*) Cairns & Bayer, 2009 (PRIMNOIDAE)  
*Fannyella* (*Scyphogorgia*) Cairns & Bayer, 2009 (PRIMNOIDAE)  
*Metafannyella* Cairns & Bayer, 2009 (PRIMNOIDAE)  
*Microprimnoa* Bayer & Stefani, 1989 (PRIMNOIDAE)  
*Mirostenella* Bayer, 1988a (PRIMNOIDAE)  
*Onogorgia* Cairns & Bayer, 2009 (PRIMNOIDAE)  
*Ophidiogorgia* Bayer, 1980a (PRIMNOIDAE)  
*Perissogorgia* Bayer & Stefani, 1989 (PRIMNOIDAE)  
*Pyrogorgia* Cairns & Bayer, 2009 (PRIMNOIDAE)  
*Tokoprymno* Bayer, 1996a (PRIMNOIDAE)  
*Tripalea* Bayer, 1955b (SPONGIODERMATIDAE)  
*Taiaroa* Bayer & Muzik, 1976b (TAIAROIDAE)  
*Viguierioties* Bayer, 1954b [nom. nov. pro *Fascicularia* Viguier, 1888] (VIGUIERIOTIDAE)

**Species and subspecies/forms (indented), annotated and alphabetically arranged by family, genus, and species**

ACANTHOGORGIIDAE

*Acanthogorgia alibaba* Bayer, 1996c

ALCYONIIDAE

*Anthomastus bathyproctus* Bayer, 1993a  
*Anthomastus fisheri* Bayer, 1952b  
*Anthomastus* (*Bathyalcyon*) *robustus delta* Bayer, 1993a  
*Bellonella epedana* Verseveldt & Bayer, 1988  
*Bellonella molokaiensis* Verseveldt & Bayer, 1988  
*Bellonella petila* Verseveldt & Bayer, 1988  
*Eleutherobia somaliensis* Verseveldt & Bayer, 1988  
*Eleutherobia sumbawaensis* Verseveldt & Bayer, 1988  
*Inflatocalyx infirmata* Verseveldt & Bayer, 1988  
*Protodendron bruuni* Bayer, 1995c  
*Protodendron verseveldti* Bayer, 1995c  
*Rhizalcyon rhodora* Bayer, 1995a

ANTHOTHELIDAE

*Anthothela nuttingi* Bayer, 1956a [nom. nov. pro *Clemitessa alba* Nutting, 1908]  
*Anthothela tropicalis* Bayer, 1961b  
*Briareopsis aegeon* Bayer, 1993d

CHRYSOGORGIIDAE

*Chalcogorgia pellucida* Bayer, 1949b  
*Chrysogorgia admete* Bayer & Stefani, 1988  
*Chrysogorgia bracteata* Bayer & Stefani, 1988  
*Chrysogorgia calypso* Bayer & Stefani, 1988  
*Chrysogorgia chryseis* Bayer & Stefani, 1988  
*Chrysogorgia electra* Bayer & Stefani, 1988  
*Chrysogorgia elisabethae* Bayer, 1951b [junior synonym of *C. thyriformis* Deichmann, 1936]  
*Chrysogorgia scintillans* Bayer & Stefani, 1988  
*Distichogorgia sconsa* Bayer, 1979c  
*Stephanogorgia diomedeia* Bayer & Muzik, 1976a  
*Trichogorgia faulkneri* Bayer, 1974c [transferred to *Stephanogorgia*]  
*Trichogorgia lyra* Bayer & Muzik, 1976a  
*Xenogorgia sciurus* Bayer & Muzik, 1976a  
*Stephanogorgia wainwrighti* Bayer & Muzik, 1976a

CLAVULARIIDAE

*Tesserantheia rhodora* Bayer, 1981f

CORALLIIDAE

*Corallium abyssale* Bayer, 1956a  
*Corallium borneense* Bayer, 1950a  
*Corallium ducale* Bayer, 1955b  
*Corallium imperiale* Bayer, 1955b

*Corallium kishinouyei* Bayer, 1996d  
*Corallium laauense* Bayer, 1956a  
*Corallium medea* Bayer, 1964b  
*Corallium niobe* Bayer, 1964b  
*Corallium niveum* Bayer, 1956a  
*Corallium nix* Bayer, 1996d [transferred to *Paracorallium*]  
*Corallium regale* Bayer, 1956a  
*Corallium thrinax* Bayer & Stefani in Bayer, 1996d [transferred to *Paracorallium*]  
*Corallium tortuosum* Bayer, 1956a [transferred to *Paracorallium*]

## DENDROBRACHIIDAE

*Dendrobrachia multispina* Opresko & Bayer, 1991  
*Dendrobrachia paucispina* Opresko & Bayer, 1991

## ELLISELLIDAE

*Ctenocella (Ellisella) nivea* Bayer & Grasshoff, 1995  
*Ctenocella rosea* Bayer & Grasshoff, 1995  
*Ellisella limbaughi* Bayer, 1960  
*Nicella goreau* Bayer, 1973b  
*Nicella schmitti* Bayer, 1961b [transferred to *Ellisella*]

## GORGONIIDAE

*Adelogorgia phyllosclera* Bayer, 1958b  
*Eugorgia euryale* Bayer, 1952d [transferred to *Leptogorgia*]  
*Eugorgia medusa* Bayer, 1952d [transferred to *Leptogorgia*]  
*Eugorgia stheno* Bayer, 1952d [transferred to *Leptogorgia*]  
*Gorgonia mariae* Bayer, 1961b  
     *Gorgonia mariae* forma *cymosa* Bayer, 1961b  
     *Gorgonia mariae* forma *plumosa* Bayer, 1961b  
*Leptogorgia styx* Bayer, 2000  
*Lophogorgia barbadensis* Bayer, 1961b [transferred to *Leptogorgia*]  
*Lophogorgia cardinalis* Bayer, 1961b [transferred to *Leptogorgia*]  
*Pacifigorgia irene* Bayer, 1951c  
*Pseudopterogorgia albatrossae* Bayer, 1961b  
*Pseudopterogorgia elisabethae* Bayer, 1961b  
*Pseudopterogorgia hummelincki* Bayer, 1961b  
*Pseudopterogorgia hystrix* Bayer, 1961b  
*Pseudopterogorgia marcgravii* Bayer, 1961b [transferred to *Olindagorgia*]  
*Pseudopterogorgia navia* Bayer, 1961b

## IFALUKELLIDAE

*Ifalukella yanii* Bayer, 1955b  
*Plumigorgia wellsii* Bayer, 1955b

## ISIDIDAE

*Acanella dispar* Bayer, 1990a  
*Acanthoisis dhondtae* Bayer & Stefani, 1987a  
*Acanthoisis richerdeforgesii* Bayer & Stefani, 1987a [transferred to *Paracanthoisis*]  
*Australis sarmentosa* Bayer & Stefani, 1987b  
*Caribisis simplex* Bayer & Stefani, 1987b  
     *Chelidonisis aurantiaca mexicana* Bayer & Stefani, 1987b  
*Chelidonisis philippinensis* Bayer & Stefani, 1987b  
*Echinisis eltanin* Bayer & Stefani, 1987b  
*Echinisis persephone* Bayer & Stefani, 1987b  
*Echinisis vema* Bayer & Stefani, 1987b  
*Isidella trichotoma* Bayer, 1990a  
*Lepidisis evelinae* Bayer, 1989  
*Mopsea bargibanti* Bayer & Stefani, 1987a  
*Mopsea laboutei* Bayer & Stefani, 1987a [transferred to *Pteronisis*]  
*Mopsea provocatoris* Bayer & Stefani, 1987a [transferred to *Pteronisis*]  
*Orstomisis crosnieri* Bayer, 1990a  
*Primnoisis mimas* Bayer & Stefani, 1987b  
*Sclerisis macquariana* Bayer & Stefani, 1987a

## KEROEIDIDAE

*Keroeides fallax* Bayer, 1956a  
*Keroeides mosaica* Bayer, 1956a

*Thelogorgia longiflora* Bayer, 1992a  
*Thelogorgia stellata* Bayer, 1992a  
*Thelogorgia studeri* Bayer, 1992a  
*Thelogorgia vossi* Bayer, 1992a

## KOPHOBELEMNIDAE

*Sclerobelemnion theseus* Bayer, 1959c

## LITHOTELESTIDAE

*Epiphaxum breve* Bayer, 1992b  
*Epiphaxum septifera* Bayer, 1992b  
*Lithtelesto micropora* Bayer & Muzik, 1977 [transferred to *Epiphaxum*]

## NIDALIIDAE

*Nidalia borongaensis* Verseveldt & Bayer, 1988  
*Nidalia dissidens* Verseveldt & Bayer, 1988  
*Nidalia rubripunctata* Verseveldt & Bayer, 1988

## PARAGORGIIDAE

*Paragorgia boschmai* Bayer, 1964a [junior synonym of *P. johnsoni* Gray, 1862]  
*Paragorgia coralloides* Bayer, 1993c  
*Paragorgia dendroides* Bayer, 1956a [junior synonym of *P. regalis* Nutting, 1912]  
*Paragorgia sibogae* Bayer, 1993c

## PLEXAURIDAE

*Adelogorgia telones* Bayer, 1979a  
*Bebryce cactus* Bayer, 1994a  
*Echinogorgia russelli* Bayer, 1949a  
     *Eunicea (Euniceopsis) calyculata* forma *coronata* Bayer, 1961b  
*Eunicea clavigera* Bayer, 1961b  
*Eunicea knighti* Bayer, 1961b  
*Eunicea palmeri* Bayer, 1961b  
*Eunicea pinta* Bayer, 1958c  
*Muricea midas* Bayer, 1959c  
*Muricea pinnata* Bayer, 1961b  
*Muricea waltonsmithi* Bayer, 1994b  
*Muricella englemani* Bayer, 1949a  
*Muriceopsis petila* Bayer, 1961b  
*Nicaule crucifera* Bayer, 1981g [transferred to *Bebryce*]  
*Placogorgia tribuloides* Bayer, 1959b  
*Plexaura nina* Bayer, 1958c  
*Pseudoplexaura crucis* Bayer, 1961b  
*Thesea antiope* Bayer, 1959c  
     *Villogorgia zimmermani* Bayer, 1949a  
     *Villogorgia zimmermani* forma *pallida* Bayer, 1949a

## PRIMNOIDAE

*Acanthoprimnoa pectinata* Cairns & Bayer, 2004c  
*Aglaoprimnoa stefanii* Bayer, 1996a  
*Ainigmaptilon edisto* Bayer, 1950b  
*Arthrogorgia kinoshitai* Bayer, 1952c  
*Armadillologorgia cyathella* Bayer, 1980a  
*Arthrogorgia otsukai* Bayer, 1952c  
*Arthrogorgia utinomii* Bayer, 1996f  
*Australogorgia aldersladei* Cairns & Bayer, 2009  
*Caligorgia (sic) pseudoflabellum* Bayer, 1949a [transferred to *Fanellia*]  
*Callogorgia americana* Cairns & Bayer, 2002  
     *Callogorgia americana delta* Cairns & Bayer, 2002  
     *Callogorgia linguimaris* Cairns & Bayer, 2002  
*Callogorgia chariessa* Bayer, 1982a  
*Callozostron acanthodes* Bayer, 1996b  
*Callozostron diplodiadema* Bayer, 1996b  
*Calyptrophora antilla* Bayer, 2001  
*Calyptrophora clarki* Bayer, 1951a  
*Calyptrophora gerdae* Bayer, 2001  
*Calyptrophora juliae* Bayer, 1952a  
*Calyptrophora pillsburyae* Bayer, 2001 [junior synonym of *C. microdentata* Pasternak, 1984]



*Fanellia corymbosa* Bayer, 1982a  
*Fanellia euthyeia* Bayer & Stefani, 1989  
*Fanellia korema* Bayer & Stefani, 1989  
*Fanellia medialis* Bayer & Stefani, 1989  
*Fannyella aurora* Bayer, 1998 [transferred to *Metafannyella* by Cairns & Bayer, 2009]  
*Fannyella eos* Bayer, 1998 [transferred to *Metafannyella*]  
*Fannyella lemnos* Bayer, 1998 [transferred to *Pyrogorgia* by Cairns & Bayer, 2009]  
*Fannyella lepidota* Bayer, 1998 [transferred to *Metafannyella*]  
*Fannyella mawsoni* Bayer, 1998 [transferred to *Metafannyella*]  
*Microprimnoa diabathra* Bayer & Stefani, 1989  
*Mirostenella articulata* Bayer, 1988a  
*Narella alata* Cairns & Bayer, 2008  
*Narella alvinae* Cairns & Bayer, 2003  
*Narella gigas* Cairns & Bayer, 2008  
*Narella hawaiiensis* Cairns & Bayer, 2008  
*Narella leilae* Bayer, 1951a  
*Narella macrocalyx* Cairns & Bayer, 2008  
*Narella muzikae* Cairns & Bayer, 2008  
*Narella nuttingi* Bayer, 1997 [junior synonym of *N. dichotoma* Versluys, 1906]  
*Narella ornata* Bayer, 1995b  
*Narella spectabilis* Cairns & Bayer, 2003  
*Narella vermifera* Cairns & Bayer, 2008  
*Ophidiogorgia paradoxa* Bayer, 1980a  
*Paracalyptrophora carinata* Cairns & Bayer, 2004b  
*Paracalyptrophora duplex* Cairns & Bayer, 2004b  
*Paracalyptrophora simplex* Cairns & Bayer, 2004b  
*Perissogorgia bythia* Bayer & Stefani, 1989  
*Perissogorgia colossus* Bayer & Stefani, 1989  
*Perissogorgia monile* Bayer & Stefani, 1989  
*Perissogorgia penna* Bayer & Stefani, 1989  
*Perissogorgia petasus* Bayer & Stefani, 1989  
*Perissogorgia viridis* Bayer & Stefani, 1989  
*Perissogorgia vitrea* Bayer & Stefani, 1989  
*Plumarella aculeata* Cairns & Bayer, 2004c  
*Plumarella dichotoma* Cairns & Bayer, 2004c  
*Plumarella laxiramosa* Cairns & Bayer, 2004c  
*Plumarella pellucida* Cairns & Bayer, 2004c  
*Plumarella pourtalesii* forma *robusta* Cairns & Bayer, 2004c  
*Plumarella pourtalesii* forma *obtusa* Cairns & Bayer, 2004c  
*Primnoa notialis* Cairns & Bayer, 2005  
*Primnoa wingi* Cairns & Bayer 2005  
*Pseudoplumarella echidna* Bayer, 1981a  
*Pterostenella plumatilis anatole* Bayer & Stefani, 1989 [raised to species level by Grasshoff, 1999]  
*Tokoprymno maia* Bayer, 1996a

## TAIAROIDAE

*Taiaroa tauhou* Bayer & Muzik, 1976b

## TELESTIDAE

*Telesto nelleae* Bayer, 1961b  
*Telesto operculata* Bayer, 1961b  
*Telestula spiculicola robusta* Bayer, 1952b

## VIRGULARIIDAE

*Acanthoptilum oligacis* Bayer, 1958a  
*Stylatula diadema* Bayer, 1959c  
*Virgularia presbytes* Bayer, 1955a [also known as a fossil]