

about 10 micra. After staining, this kind of preparation reveals anatomical and histological detail in essentially natural relationship with mineral structures, a result that can be achieved in no other way known to me.

From a systematic point of view, the most important outcome of studies of octocorals by the scanning electron microscope has been a revision of the classification, which has resulted rather from an examination of a wide range of taxa than from the discovery of any unexpected new information. Of course, the new findings about crystal structure are valuable in that they tend to support the general conclusions reached on other grounds.

The original classification used by Linnaeus (743) and Pallas (900) was very simple. The octocorals were included in five genera of the class Zoophyta: *Alcyonium*, *Gorgonia*, *Isis*, *Tubipora* and *Pennatula*. This arrangement was elaborated somewhat in 1816 by Lamouroux, who introduced several new genera and divided the "flexible Corallines" into four classes, of which the first contained mostly hydroids, the second the algae (together with *Telesto*), the third the gorgonians, antipatharians and some algae, and the fourth the soft corals and zoanthids (710).

Milne Edwards & Haime in 1857 treated the octocorals as an order with a total of 50 genera distributed among three families, seven subfamilies, and four "agèles" (803). This general scheme was somewhat modified by Kölliker on the basis of spicular characters, but remains essentially the same in overall features (603).

The general classification developed by Kükenthal during more than three decades of leadership in this field and accepted by most workers was ultimately much more complex. In that classification as modified by me in 1956, the octocorals are a subclass of coelenterates divided into 7 orders, one of which is a fossil of doubtful affinity (56). In 1973, Utinomi & Harada (1311) established still another order, Gastraxonacea, for the peculiar genus *Pseudogorgia* described by Kölliker in 1870.

The objection to this system lies in the difficulty of assigning many species to their proper orders. For example, Versteveldt in 1940 showed that *Paragorgia* should be considered an alcyonacean, not a gorgonacean (1368). Already in 1939, Stiasny proposed a classification of only 4 orders, in which *Paragorgia*, along with several other "traditional" Gorgonacean genera, was placed in the Alcyonacea instead (111).

Similar difficulties exist in separating the "traditional" suborders of Gorgonacea – Holaxonia and Scleraxonia – and in assigning genera to the proper families. The result of my broad taxonomic survey of the octocoral genera confirms these difficulties, and attempts to solve the problem by a return to simplicity. I can concur in the main with Stiasny's four orders, but with the addition of a fifth order for solitary forms as originally proposed by Hickson. Definitions of families will not agree exactly with those of Stiasny, and therefore the assignment of genera to them will differ somewhat. In general, however, the scheme that will result from new S.E.M. studies and anatomical investigations will be similarly simple.

BIBLIOGRAPHY OF OCTOCORALLIA*

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General Works

Textbooks, handbooks, general treatises, cruise narratives and similar works not of strictly taxonomic nature but containing taxonomic, morphological, and distributional data, or information about procedures and techniques.

3, 112, 193, 212, 213, 219, 220, 221, 222, 236, 324, 423, 439, 446, 447, 462, 475, 478a, 524, 584, 680, 788a, 797, 811, 812, 848, 868a, 895, 943, 984, 1002, 1056, 1067a, 1067b, 1067c, 1186, 1268a, 1432, 1436, 1437.

Taxonomic: World Wide

Works including species from several major geographical regions; comprehensive taxonomic reviews and monographs.

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Taxonomic: North Atlantic Ocean and adjacent arctic waters, including Scandinavia

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*Because this is the first attempt to compile a comprehensive bibliography of the world literature on Octocorallia, errors of both omission and commission certainly will be found. I hope that no significant taxonomic references have been overlooked, but the coverage of the palaeontological, biological and biochemical literature inevitably will contain more gaps. Likewise, I surely will have overlooked some titles among the 16th and 17th Century literature.

Although I have seen most of the works personally, some titles have been taken exclusively from reliable published sources so the exact bibliographic details have not been verified for them. I shall appreciate receiving any additions and corrections to this list that may come to the notice of users everywhere.

Taxonomic: Eastern Atlantic Ocean, British waters and the Mediterranean Sea

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Taxonomic: West African waters and offshore islands including Madeira, Cape Verde Is., Canary Is.

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Taxonomic: Western Atlantic Ocean, east coast of United States, Gulf of Mexico, Caribbean Sea and Atlantic coast of South America.

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Taxonomic: Brazil

62, 64, 75, 231, 234, 640, 853, 1256, 1265, 1333, 1364.

Taxonomic: Boreal North Pacific Ocean and adjacent arctic waters

48, 134, 136, 138, 388, 867, 892, 916, 917, 1271, 1366, 1440.

Taxonomic: Eastern Pacific Ocean, west coast of Canada south to Chile, including offshore islands

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1082, 1084, 1126, 1128, 1136, 1138, 1150, 1160, 1297, 1313, 1329, 1331, 1334, 1351, 1413.

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39, 43, 47, 54, 55, 69, 72, 99, 111, 364, 417, 432, 433, 503, 610, 765, 884, 975, 1162, 1233, 1242, 1255, 1256a, 1275, 1286, 1366, 1383, 1387, 1391, 1415, 1416.

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Taxonomic: Philippine Islands

43, 46, 72, 99, 299, 371, 605, 729, 730, 731, 732, 733, 755, 768, 769, 842, 940, 1024, 1025, 1026, 1119, 1132, 1155.

Taxonomic: Southeast Asia, Japan

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1120, 1138, 1161, 1173, 1192, 1194, 1197, 1198, 1200, 1201, 1204, 1205, 1206, 1212, 1213, 1371, 1389, 1396.

Taxonomic: Red Sea

29, 143, 229, 261, 312, 313, 315, 353, 391, 426, 500, 514, 581, 641, 666, 1006, 1042, 1108, 1123, 1139, 1208, 1232, 1234, 1235, 1244, 1249, 1373, 1377, 1380, 1381, 1388.

Taxonomic: East Africa, Madagascar

202, 310, 330, 347, 350, 655, 784, 814, 1117, 1130, 1138, 1202, 1254, 1257, 1259, 1371, 1376, 1378, 1379, 1382, 1384, 1385.

Taxonomic: South Africa

118, 137, 143, 275a, 383, 465, 468, 808, 1074, 1076, 1122, 1126, 1130, 1214, 1215, 1217, 1218, 1219, 1220, 1243, 1250, 1250a, 1318.

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