

Article title: Diversity and distribution of azooxanthellate corals in the Colombian Caribbean

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Annotated list of azooxanthellate corals in the Colombian Caribbean.

Most are azooxanthellate species (unmarked), except for (+) zooxanthellate and (*) apozooxanthellate. See Electronic Supplementary Material 2, Table S1 for station codes.

Order SCLERACTINIA

Family CARYOPHYLLIIDAE

***Anomocora fecunda* (Pourtalès, 1871)**

Figs. S1 a-b

MATERIAL EXAMINED: ARCO: C 3, INV CNI2476 (1 fragment); D 34, INV CNI2391 (6 fragments), E 155, INV CNI848 (1 fragment), INV CNI849 (1 fragment), INV CNI850 (1 fragment), INV CNI854 (1 fragment), E 156, INV CNI851 (1 fragment), INV CNI855 (1 fragment); DAR: E 182, INV CNI1795 (1 fragment); GUA: P-775, INV CNI315 (1 fragment), E 239, INV CNI2318 (1 fragment), E 94, INV CNI838 (5 fragments), INV CNI847 (1 fragment), E 95, INV CNI839 (2 fragments), E 96, INV CNI840 (2 fragments); PAL: E 102, INV CNI841 (3 fragments), INV CNI842 (3 fragments), E 104, INV CNI843 (1 fragment); TAY: E 116, INV CNI844 (3 fragments), E 117, INV CNI845 (16 fragments), E 118, INV CNI846 (1 fragment), E 8, INV CNI398 (13 fragments), INV CNI399 (3 fragments), INV CNI400 (7 fragments).

***Anomocora marchadi* (Chevalier, 1966)**

Figs. S1 c-d

MATERIAL EXAMINED: GUA: E 231, INV CNI2163 (23 fragments), E 232, INV CNI2147 (2 fragments), E 234, INV CNI2301 (40 fragments), E 236, INV CNI2171 (4 fragments), INV CNI2302 (36 fragments), E 237, INV CNI2145 (1437 fragments), E 238, INV CNI2141 (548 fragments), E 239, INV CNI2144 (1012 fragments), INV CNI2182 (1 fragment); PAL: E 240, INV CNI2303 (11 fragments).

***Anomocora prolifera* (Pourtalès, 1871)**

Figs. S1 e-f

MATERIAL EXAMINED: ARCO: D 34, INV CNI2392 (1 fragment); GUA: P-775, INV CNI316 (1 fragment), E 234, INV CNI2164 (1 fragment), E 236, INV CNI2176 (4 fragments), E 237, INV CNI2146 (43 fragments), E 238, INV CNI2143 (15 fragments), E 239, INV CNI2142 (28 fragments), E 97, INV CNI836 (4 fragments); PAL: E 100, INV CNI837 (1 fragment), E 102, INV CNI834 (10 fragments), E 103, INV CNI833 (2 fragments); TAY: E 122, INV CNI835 (3 fragments), E 8, INV CNI406 (5 fragments).

***Caryophyllia ambrossia caribbeana* Cairns, 1979**

Figs. S1 g-h

MATERIAL EXAMINED: ARCO: E 150, INV CNI658 (1 specimen), INV CNI659 (1 specimen), E 153, INV CNI661 (16 specimens), INV CNI662 (30 specimens), E 154, INV CNI660 (2 specimens), E 67, INV CNI367 (14 specimens), E 68, INV CNI368 (5 specimens), E 71, INV CNI369 (1 specimen), E 75, INV CNI370 (4 specimens), E 76, INV CNI374 (1 specimen), E 78, INV CNI375 (1 specimen); DAR: E 55, INV CNI362 (1 specimen), E 59, INV CNI373 (2 specimens), E 60, INV CNI363 (1 specimen), E 63, INV CNI364 (7 specimens), E 64, INV CNI365 (10 specimens), INV CNI366 (1 specimen); MAG: E 140, INV CNI657 (1 specimen), E 46, INV CNI372 (1 specimen), E 49, INV CNI360 (2 specimens), E 54, INV CNI361 (7 specimens); PAL: E 113, INV CNI663 (2 specimens), E 25, INV CNI352 (10 specimens), E 26, INV CNI353 (25 specimens), E 30, INV CNI354 (8 specimens); TAY: E 35, INV CNI355 (15 specimens), E 36, INV CNI356 (22 specimens), E 37, INV CNI357 (14 specimens), INV CNI358 (1 specimen), E 38, INV CNI359 (2 specimens), E 5, INV CNI371 (1 specimen), E 7, INV CNI350 (1 specimen), E 8, INV CNI351 (1 specimen).

***Caryophyllia barbadensis* Cairns, 1979**

Figs. S1 i-j

MATERIAL EXAMINED: ARCO: E 155, INV CNI669 (1 specimen).

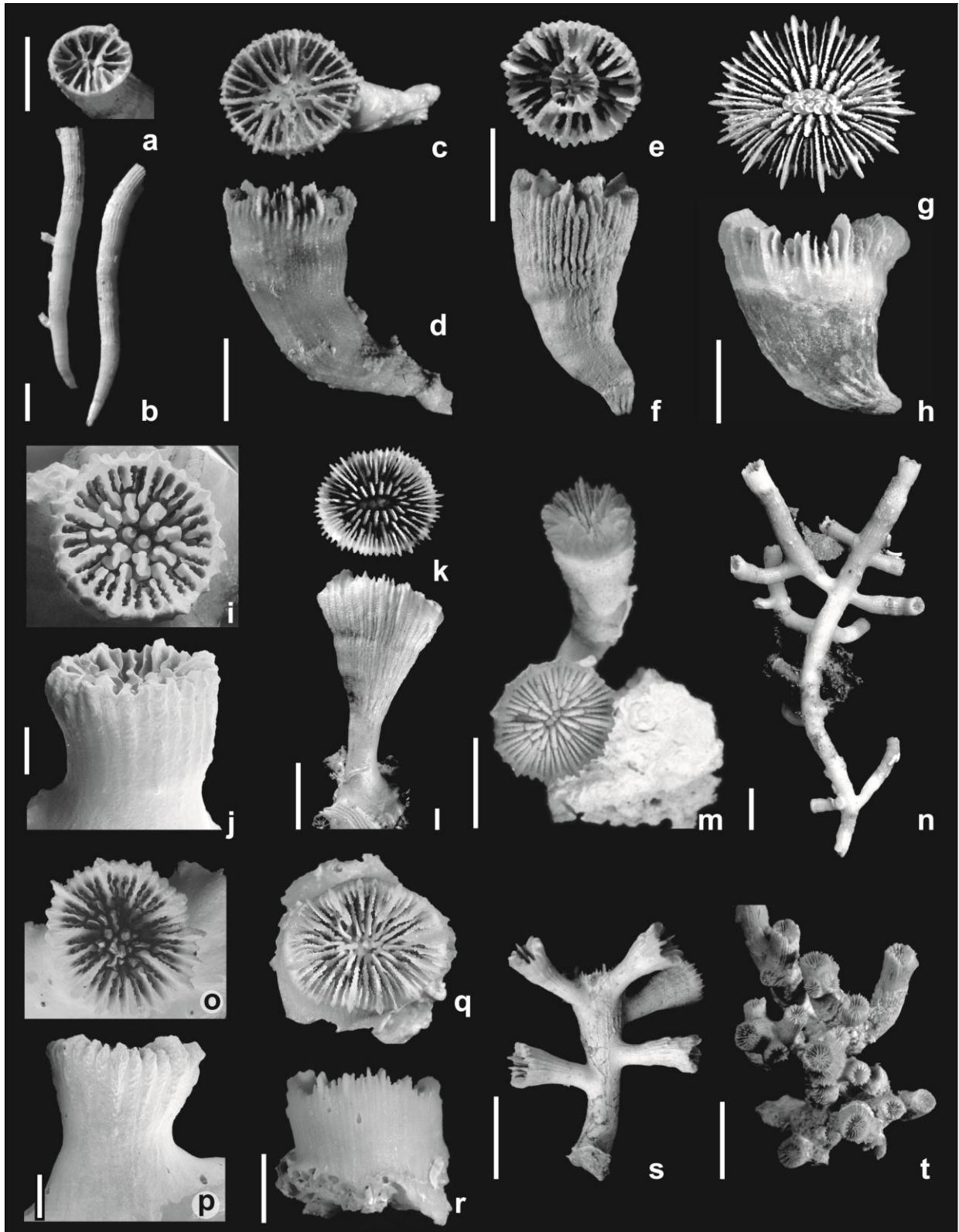


Fig. S1 Order Scleractinia. Family Caryophylliidae, Part I. **a-b** *Anomocora fecunda*; **c-d** *Anomocora prolifera*; **e-f** *Anomocora marchadi*; **g-h** *Caryophyllia ambrosia caribbeana*; **i-j** *Caryophyllia barbadensis*; **k-l** *Caryophyllia berteriana*; **m** *Caryophyllia crypta*; **n** *Cladocora debilis*; **o-p** *Coenocyathus parvulus*; **q-r** *Colangia immersa*; **s** *Coenosmilia arbuscula*; **t** *Cladocora arbuscula*. Scales (**a,c-f,m,q-r**) 5 mm; (**b,g-h,k-l,n,s-t**) 1 cm; (**i-j,o-p**) 1 mm (Modified from Reyes et al. 2009)

***Caryophyllia berteriana* Duchassaing, 1850**

Figs. S1 k-l

MATERIAL EXAMINED: ARCO: C 2, INV CNI2416 (1 specimen), INV CNI2433 (2 specimens), C 3, INV CNI2457 (2 specimens), E 155, INV CNI667 (11 specimens), INV CNI668 (70 specimens), E 156, INV CNI665 (4 specimens), INV CNI666 (1 specimen); GUA: E 85, INV CNI664 (1 specimen); SAN: O-4834, INV CNI318 (1 specimen); TAY: E 8, INV CNI376 (2 specimens).

***Caryophyllia crypta* Cairns, 2000**

Fig. S1 m

MATERIAL EXAMINED: TAY: USNM 99187 (Paratype, 4 specimens).

***Cladocora arbuscula* (Lesueur, 1881)+**

Fig. S1 t

MATERIAL EXAMINED: GUA: E 214, INV CNI2300 (1 colony); PAL: E 201, INV CNI2198 (1 colony), E 202, INV CNI2195 (4 specimens), E 240, INV CNI2299 (1 colony); TAY: B 106, INV CNI215 (1 colony); B 979, INV CNI83 (1 colony).

***Cladocora debilis* Milne Edwards and Haime, 1849**

Fig. S1 n

MATERIAL EXAMINED: ARCO: E 246, INV CNI2466 (1 colony); GUA: P-768, INV CNI322 (1 colony); P-773, INV CNI311 (1 colony); P-775, INV CNI308 (1 colony), E 203, INV CNI2238 (1 colony), E 204, INV CNI2239 (1 colony), E 214, INV CNI2297 (1 colony), E 215, INV CNI2152 (1 colony), E 234, INV CNI2174 (1 colony), INV CNI2312 (14 fragments), E 235, INV CNI2154 (3 fragments), E 236, INV CNI170 (18 fragments), INV CNI2243 (83 fragments), E 237, INV CNI2151 (6 fragments), E 238, INV CNI2173 (4 fragments), E 88, INV CNI866 (2 fragments), INV CNI867 (8 fragments), E 96, INV CNI870 (59 fragments), E 97, INV CNI868 (62 fragments), INV CNI869 (29 fragments), E 98, INV CNI871 (210 fragments), INV CNI872 (75 fragments), E 99, INV CNI873 (58 fragments); MAG: E 128, INV CNI889 (2 fragments), E 129, INV CNI890 (1 colony); PAL: E 100, INV CNI874 (17 fragments), E 101, INV CNI875 (2 fragments), E 102, INV CNI876 (13 fragments), INV CNI877 (327 fragments), E 103, INV CNI2017 (10 fragments), E 104, INV CNI878 (37 fragments), INV CNI879 (51 fragments), INV CNI880 (120 fragments), E 105, INV CNI881 (28 fragments), INV CNI882 (60 fragments), E 108, INV CNI883 (24 fragments), INV CNI884 (11 fragments), E 109, INV CNI885 (6 fragments), E 110, INV CNI886 (2 fragments), E 240, INV CNI2153 (1 colony), INV CNI2248 (32 fragments); TAY: E 122, INV CNI887 (2 fragments), E 127, INV CNI888 (15 fragments).

***Coenocyathus parvulus* (Cairns, 1979)**

Figs. S1 o-p

MATERIAL EXAMINED: ARCO: C 1, INV CNI2396 (1 specimen), INV CNI2397 (3 specimens), C 3, INV CNI2478 (1 specimen), E 155, INV CNI670 (21 specimens), INV CNI671 (5 specimens), E 156, INV CNI672 (6 specimens), INV CNI673 (14 specimens); PAL: E 105, INV CNI674 (1 specimen).

***Coenosmilia arbuscula* Pourtalès, 1874**

Fig. S1 s

MATERIAL EXAMINED: ARCO: C 3, INV CNI2461 (21 fragments); D 12, INV CNI2440 (3 fragments), E 156, INV CNI852 (1 fragment); TAY: E 125, INV CNI853 (1 fragment), E 7, INV CNI401 (3 fragments), E 8, INV CNI402 (37 fragments), INV CNI403 (10 fragments), INV CNI404 (86 fragments), INV CNI405 (3 fragments).

***Colangia immersa* Pourtalès, 1871**

Figs. S1 q-r

MATERIAL EXAMINED: GUA: E 88, INV CNI683 (1 specimen).

***Deltocyathus calcar* Pourtalès, 1874**

Figs. S2 a-b

MATERIAL EXAMINED: ARCO: C 2, INV CNI2436 (1 specimen), E 150, INV CNI707 (1 specimen), E 153, INV CNI697 (74 specimens), INV CNI698 (79 specimens), E 154, INV CNI695 (7 specimens), INV CNI696 (3 specimens), E 155, INV CNI708 (2 specimens), INV CNI709 (1 specimen), E 246, INV CNI2469 (3 specimens), E 67, INV CNI514 (9 specimens), INV CNI515 (12 specimens), INV CNI516 (20 specimens), INV CNI517 (20 specimens), E 68, INV CNI518 (6 specimens), INV CNI519 (7 specimens), E 69, INV CNI528 (27 specimens), E 70, INV CNI527 (9 specimens), E 73, INV CNI520 (10 specimens), INV CNI521 (22 specimens), E 74, INV CNI522 (7 specimens), E 75, INV CNI524 (11 specimens), E 76, INV CNI523 (4 specimens), INV CNI525 (4 specimens), INV CNI526 (10 specimens), E 81, INV CNI1608 (126 specimens); DAR: E 159, INV CNI705 (1 specimen), E 160, INV CNI702 (2 specimens), E 55, INV CNI497 (17 specimens), INV CNI505 (5 specimens), E 59, INV CNI496 (7 specimens), INV CNI498 (10 specimens), INV CNI499 (1 specimen), INV CNI500 (22 specimens), E 61, INV CNI507 (1 specimen), E 62, INV CNI501 (1 specimen), E 63, INV CNI502 (9 specimens), INV CNI503 (7 specimens), INV CNI504 (70 specimens), INV CNI506 (50 specimens), INV CNI508 (50 specimens), E 64, INV CNI509 (7 specimens), INV CNI510 (30 specimens), INV CNI511 (30 specimens), INV CNI513 (30 specimens), E 66, INV CNI512 (2 specimens); GUA: E 17, INV CNI459 (1 specimen); MAG: E 140, INV CNI699 (11 specimens), INV CNI700 (37 specimens), E 141, INV CNI703 (24 specimens), INV CNI704 (13 specimens), E 142, INV CNI706 (1 specimen), E 2, INV CNI458 (3 specimens), E 45, INV CNI472 (24 specimens), INV CNI473 (62 specimens), INV CNI479 (99 specimens), E 46, INV CNI474 (1 specimen), INV CNI475 (21 specimens), INV CNI476 (41 specimens), E 47, INV CNI477 (31 specimens), INV CNI478 (13 specimens), E 48, INV CNI480 (16 specimens), INV CNI481 (19 specimens), INV CNI482 (100 specimens), INV CNI483 (30 specimens), INV CNI484 (35 specimens), INV CNI485 (27 specimens), E 49, INV CNI486 (23 specimens), INV CNI487 (40 specimens), E 50, INV CNI488 (13 specimens), INV CNI489 (4 specimens), E 51, INV CNI490 (1 specimen), E 53, INV CNI491 (31 specimens), INV CNI492 (37 specimens), INV CNI493 (38 specimens), E 54, INV CNI494 (12 specimens), INV CNI495 (18 specimens), E 82, INV CNI1611 (13 specimens), E 83, INV CNI1609 (30 specimens); PAL: E 32, INV CNI460 (1 specimen); TAY: E 122, INV CNI701 (1 specimen), E 35, INV CNI461 (2 specimens), E 36, INV CNI462 (35 specimens), INV CNI463 (33 specimens), E 37, INV CNI464 (58 specimens), INV CNI465 (9 specimens), INV CNI466 (36 specimens), INV CNI467 (35 specimens), INV CNI469 (1 specimen), E 38, INV CNI468 (36 specimens), INV CNI470 (38 specimens), INV CNI471 (27 specimens), E 84, INV CNI1610 (138 specimens).

***Deltocyathus eccentricus* Cairns, 1979**

Figs. S2 c-d

MATERIAL EXAMINED: ARCO: E 149, INV CNI716 (7 specimens), INV CNI717 (7 specimens), E 150, INV CNI719 (2 specimens), INV CNI721 (3 specimens), E 153, INV CNI718 (10 specimens), INV CNI720 (2 specimens), E 71, INV CNI386 (6 specimens); DAR: E 64, INV CNI384 (1 specimen), E 65, INV CNI385 (3 specimens); GUA: E 13, INV CNI382 (4 specimens); MAG: E 143, INV CNI722 (2 specimens); TAY: E 42, INV CNI383 (1 specimen)

***Deltocyathus* sp. cf. *D. italicus* (Michelotti, 1838)**

Figs. S2 e-f

MATERIAL EXAMINED: ARCO: E 150, INV CNI712 (1 specimen), E 151, INV CNI715 (1 specimen), E 76, INV CNI381 (1 specimen); MAG: E 142, INV CNI710 (7 specimens), INV CNI711 (8 specimens), E 143, INV CNI713 (2 specimens), INV CNI714 (1 specimen)

***Heterocyathus antoniae* Reyes, Santodomingo and Cairns, 2009**

Figs. S2 h-i

MATERIAL EXAMINED: TAY: E 118, INV CNI740 (Holotype, 1 specimen); PAL: E 105, INV CNI738 (Paratype, 2 specimens), INV CNI739 (Paratype, 1 specimen).

***Lophelia pertusa* (Linnaeus, 1758)**

Fig. S2 g

MATERIAL EXAMINED: GUA: E 10, INV CNI396 (5 fragments), INV CNI397 (3 fragments), E 91, INV CNI723 (1 specimen).

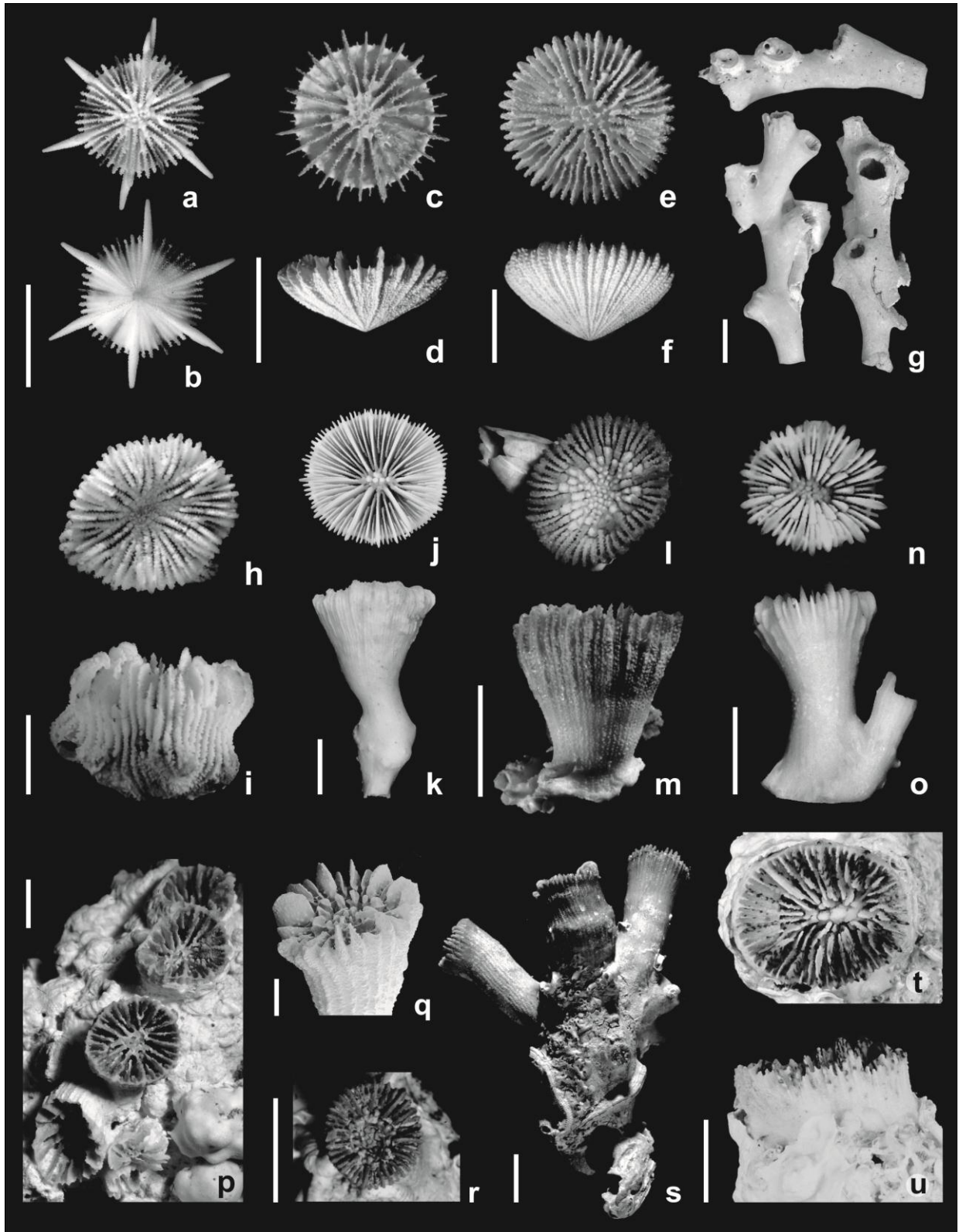


Fig. S2 Order Scleractinia. Family Caryophylliidae, Part II. **a-b** *Deltocyathus calcar*; **c-d** *Deltocyathus eccentricus*; **e-f** *Deltocyathus* sp. cf. *D. italicus*; **g** *Lophelia pertusa*; **h-i** *Heterocyathus antoniae* (holotype); **j-k** *Oxysmilia rotundifolia*; **l-m** *Paracyathus pulchellus*; **n-o** *Phacelocyathus flos*; **p** *Phyllangia americana americana*; **q** *Polycyathus mayae*; **r-s** *Polycyathus senegalensis*; **t-u** *Rhizosmilia maculata*. Scales (**a-f**, **h-i**, **l-p**, **r-u**) 5 mm; (**g**, **j-k**) 1 cm; (**q**) 1 mm (Modified from Reyes et al. 2009)

***Oxysmilia rotundifolia* (Milne Edwards and Haime, 1848)**

Figs. S2 j-k

MATERIAL EXAMINED: ARCO: C 1, INV CNI2400 (3 specimens), C 2, INV CNI2437 (1 specimen), C 3, INV CNI2454 (3 specimens), E 155, INV CNI86 (2 specimens), INV CNI687 (14 specimens), E 156, INV CNI684 (1 specimen), INV CNI685 (1 specimen), E 246, INV CNI2431 (2 specimens), INV CNI2467 (3 specimens); SAN: O-4832, INV CNI326 (1 specimen); TAY: E 122, INV CNI688 (2 specimens).

***Paracyathus pulchellus* (Philippi, 1842)**

Figs. S2 l-m

MATERIAL EXAMINED: ARCO: P-392, INV CNI310 (1 specimen), C 1, INV CNI2401 (1 specimen), C 4, INV CNI2410 (3 specimens); D 33, INV CNI2383 (1 specimen); D 34, INV CNI2432 (1 specimen), E 155, INV CNI800 (3 specimens), INV CNI801 (3 specimens), INV CNI815 (1 specimen), E 156, INV CNI798 (1 specimen), INV CNI812 (1 specimen), E 246, INV CNI2468 (1 specimen), INV CNI2470 (1 specimen), E 67, INV CNI380 (1 specimen); GUA: E 215, INV CNI2166 (2 specimens), E 234, INV CNI2304 (4 specimens), E 88, INV CNI811 (5 specimens), E 98, INV CNI799 (1 specimen); PAL: E 102, INV CNI806 (43 specimens), INV CNI807 (26 specimens), INV CNI814 (1 specimen), INV CNI817 (1 specimen), E 103, INV CNI805 (4 specimens), E 104, INV CNI802 (2 specimens), INV CNI803 (11 specimens), INV CNI816 (1 specimen), E 105, INV CNI804 (1 specimen), INV CNI813 (2 specimens), E 240, INV CNI2305 (38 specimens), E 242, INV CNI2306 (1 specimen).

***Phacelocyathus flos* (Pourtalès, 1878)**

Figs. S2 n-o

MATERIAL EXAMINED: ARCO: D12, INV CNI2521 (1 specimen); C2, INV CNI2940 (1 specimen).

***Phyllangia americana americana* (Milne Edwards and Haime, 1848)**

Fig. S2 p

MATERIAL EXAMINED: DAR: B 3629, INV CNI583 (1 specimen); GUA: E 203, INV CNI2240 (1 specimen), E 204, INV CNI2201 (8 specimens), E 213, INV CNI2317 (2 specimens), E 214, INV CNI2157 (3 specimens), INV CNI2293 (2 specimens), INV CNI2311 (14 specimens), E 215, INV CNI2159 (5 specimens), E 230, INV CNI2202 (1 specimen), E 236, INV CNI2294 (1 specimen), E 88, INV CNI680 (1 specimen); MOR: B 4292, INV CNI1459 (1 specimen); PAL: E 201, INV CNI2203 (4 specimens), E 202, INV CNI2199 (1 specimen); TAY: B 106, INV CNI214 (1 specimen); B 1817a, INV CNI194 (1 specimen); B 4466b, INV CNI61 (1 specimen).

***Polycyathus mayae* Cairns, 2000**

Fig. S2 q

MATERIAL EXAMINED: ARCO: C 3, INV CNI2462 (1 specimen), C 4, INV CNI2412 (3 specimens), INV CNI2419 (4 specimens), E 155, INV CNI797 (8 specimens), E 156, INV CNI796 (2 specimens).

***Polycyathus senegalensis* Chevalier, 1966**

Figs. S2 r-s

MATERIAL EXAMINED: GUA: E 88, INV CNI809 (5 specimens), INV CNI810 (1 specimen), E 89, INV CNI808 (1 specimen).

***Rhizosmilia maculata* (Pourtalès, 1874)**

Figs. S2 t-u

MATERIAL EXAMINED: TAY: B 102, INV CNI250 (1 specimen); B 4466c, INV CNI178 (1 specimen); B 4466a, INV CNI212 (1 specimen).

***Stephanocyathus* (*Stephanocyathus*) *diadema* (Moseley, 1876)**

Figs. S3 a-b

MATERIAL EXAMINED: ARCO: P-913, INV CNI329 (1 specimen); MAG: E 54, INV CNI395 (1 specimen).

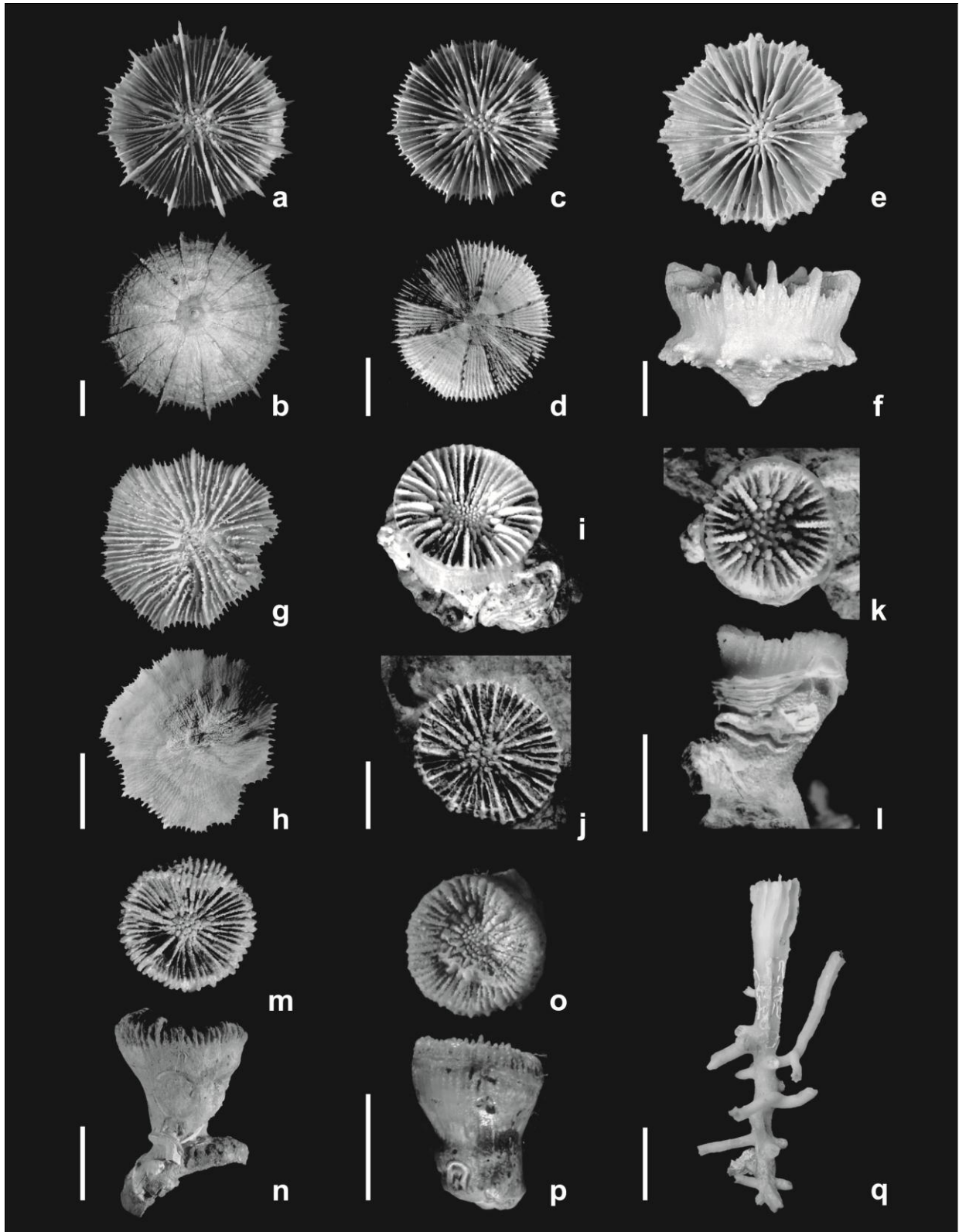


Fig. S3 Order Scleractinia. Family Caryophylliidae, Part III. **a-b** *Stephanocyathus* (*Stephanocyathus*) *diadema*; **c-d** *Stephanocyathus* (*Stephanocyathus*) *paliferus*; **e-f** *Stephanocyathus* (*Odontocyathus*) *coronatus*; **g-h** *Stephanocyathus* (*Stephanocyathus*) *isabellae*; **i-j** *Tethocyathus* *prahli*; **k-l** *Tethocyathus* *variabilis*; **m-n** *Trochocyathus* *rawsonii*; **o-p** *Trochocyathus* cf. *fasciatus*; **q** *Thalamophyllia* *riisei*. Scales (**a-h**, **q**) 1cm; (**i-p**) 5 mm (Modified from Reyes et al. 2009)

***Stephanocyathus (Stephanocyathus) isabellae* Reyes, Santodomingo and Cairns, 2009**

Figs. S3 g-h

MATERIAL EXAMINED: ARCO: E 150, INV CNI694 (Paratype, 2 specimens); GUA: E 92, INV CNI693 (1 specimen), E 93, INV CNI691 (1 specimen); PAL: E 115, INV CNI692 (3 specimens).

***Stephanocyathus (Stephanocyathus) paliferus* Cairns, 1977**

Figs. S3 c-d

MATERIAL EXAMINED: ARCO: E 153, INV CNI689 (7 specimens), INV CNI690 (1 specimen), E 67, INV CNI392 (3 specimens), E 68, INV CNI393 (1 specimen), E 78, INV CNI394 (2 specimens); DAR: E 55, INV CNI389 (1 specimen), E 64, INV CNI390 (3 specimens), INV CNI391 (2 specimens); GUA: E 10, INV CNI387 (1 specimen); MAG: E 54, INV CNI388 (1 specimen).

***Stephanocyathus (Odontocyathus) coronatus* (Pourtalès, 1867)**

Figs. S3 e-f

MATERIAL EXAMINED: SAN: O-3573, USNM 49246 (1 specimen).

***Tethocyathus prahli* Lattig and Cairns, 2000**

Figs. S3 i-j

MATERIAL EXAMINED: MAG: E 49, INV CNI241 (Holotype, 1 specimen), INV CNI242 (Paratype, 1 specimen); GUA: E 89, INV CNI905 (4 specimens).

***Tethocyathus variabilis* Cairns, 1979**

Figs. S3 k-l

MATERIAL EXAMINED: ARCO: C 4, INV CNI2409 (1 specimen), INV CNI2423 (1 specimen); D 34, INV CNI2402 (1 specimen), INV CNI2404 (1 specimen).

***Thalamophyllia riisei* (Duchassaing and Michelotti, 1864)**

Fig. S3 q

MATERIAL EXAMINED: ARCO: C 1, INV CNI2403 (1 colony), C 4, INV CNI2411 (1 colony); D 34, INV CNI2390 (10 fragments), E 155, INV CNI675 (5 fragments), INV CNI676 (148 fragments), INV CNI677 (9 fragments), E 156, INV CNI679 (47 fragments), E 246, INV CNI2428 (8 fragments), INV CNI2464 (1 colony); MOR: E 158, INV CNI678 (1 colony).

***Trochocyathus fasciatus* Cairns, 1979**

Figs. S3 o-p

MATERIAL EXAMINED: TAY: E 7, INV CNI379 (1 specimen).

***Trochocyathus rawsonii* Pourtalès, 1874**

Figs. S3 m-n

MATERIAL EXAMINED: ARCO: D 34, INV CNI2394 (1 specimen), E 153, INV CNI681 (1 specimen); GUA: E 18, INV CNI378 (1 specimen); PAL: E 102, INV CNI682 (1 specimen).

Family DENDROPHYLLIIDAE

***Balanophyllia bayeri* Cairns, 1979**

Figs. S4 k-l

MATERIAL EXAMINED: TAY: E 8, INV CNI457 (1 specimen).

***Balanophyllia caribbeana* Cairns, 1977**

Figs. S4 g-h

MATERIAL EXAMINED: ARCO: E 246, INV CNI2429 (1 specimen); GUA: E 230, INV CNI2155 (2 fragments), E 231, INV CNI2162 (1 specimen), E 232, INV CNI2149 (3 fragments), E 234, INV CNI2175 (1 specimen), INV CNI2295 (1 specimen), E 236, INV CNI2172 (5 fragments), E 237, INV CNI2179 (17 fragments), E 238, INV CNI2156 (2 fragments), E 239, INV CNI2178 (15 fragments), E 88, INV CNI771 (1 specimen), E 96, INV CNI767 (7 fragments), INV CNI768 (1 specimen), E 97, INV CNI764 (4 fragments), INV CNI765 (7 fragments), INV CNI769 (1 specimen); TAY: E 117, INV CNI766 (3 fragments); E118, INV CNI770 (1 specimen).

***Balanophyllia cyathoides* (Pourtalès, 1871)**

Figs. S4 a-b

MATERIAL EXAMINED: ARCO: C 2, INV CNI2434 (1 specimen), C 3, INV CNI2459 (1 specimen), E 152, INV CNI752 (2 fragments), E 155, INV CNI753 (4 fragments), INV CNI754 (14 fragments), E 156, INV CNI755 (3 fragments); GUA: E 94, INV CNI748 (1 specimen); TAY: E 8, INV CNI447 (4 fragments), INV CNI448 (1 specimen), INV CNI449 (3 fragments).

***Balanophyllia dineta* Cairns, 1977**

Figs. S4 e-f

MATERIAL EXAMINED: GUA: E 94, INV CNI745 (3 fragments).

***Balanophyllia palifera* Pourtalès, 1878**

Figs. S4 c-d

MATERIAL EXAMINED: ARCO: C 3, INV CNI2460 (3 fragments), E 155, INV CNI750 (1 specimen); GUA: E 85, INV CNI751 (1 specimen), E 89, INV CNI749 (1 specimen); TAY: E 7, INV CNI450 (3 fragments), E 8, INV CNI451 (1 specimen), INV CNI452 (1 specimen), E 80, INV CNI453 (3 fragments).

***Balanophyllia pittieri* (Cairns, 1977)**

Figs. S4 m-n

MATERIAL EXAMINED: GUA: E 88, INV CNI756 (2 fragments), INV CNI757 (1 specimen), INV CNI760 (2 fragments), E 90, INV CNI758 (1 specimen); E 97, INV CNI759 (2 fragments); TAY: E 8, INV CNI454 (6 fragments), INV CNI455 (2 fragments), INV CNI456 (2 fragments).

***Balanophyllia wellsii* Cairns, 1977**

Figs. S4 i-j

MATERIAL EXAMINED: ARCO: E 155, INV CNI747 (2 fragments); GUA: E 88, INV CNI746 (1 specimen).

***Eguchipsammia cornucopia* Pourtalès, 1871**

Figs. S4 o

MATERIAL EXAMINED: ARCO: C 2, INV CNI2435 (1 colony), C 3, INV CNI2458 (1 colony), E 155, INV CNI778 (78 fragments), E 156, INV CNI776 (10 fragments), INV CNI777 (7 fragments).

***Rhizopsammia goesi* (Lindstroem, 1877)**

Figs. S4 p-q

MATERIAL EXAMINED: GUA: O-4393, INV CNI325 (1 specimen), E 88, INV CNI772 (3 specimens), INV CNI773 (3 specimens), E 89, INV CNI774 (1 specimen), INV CNI775 (1 specimen).

***Tubastraea coccinea* (Lesson, 1829)**

Fig. S4 r

MATERIAL EXAMINED: TAY: Granate Bay, INV CNI599 (1 colony).

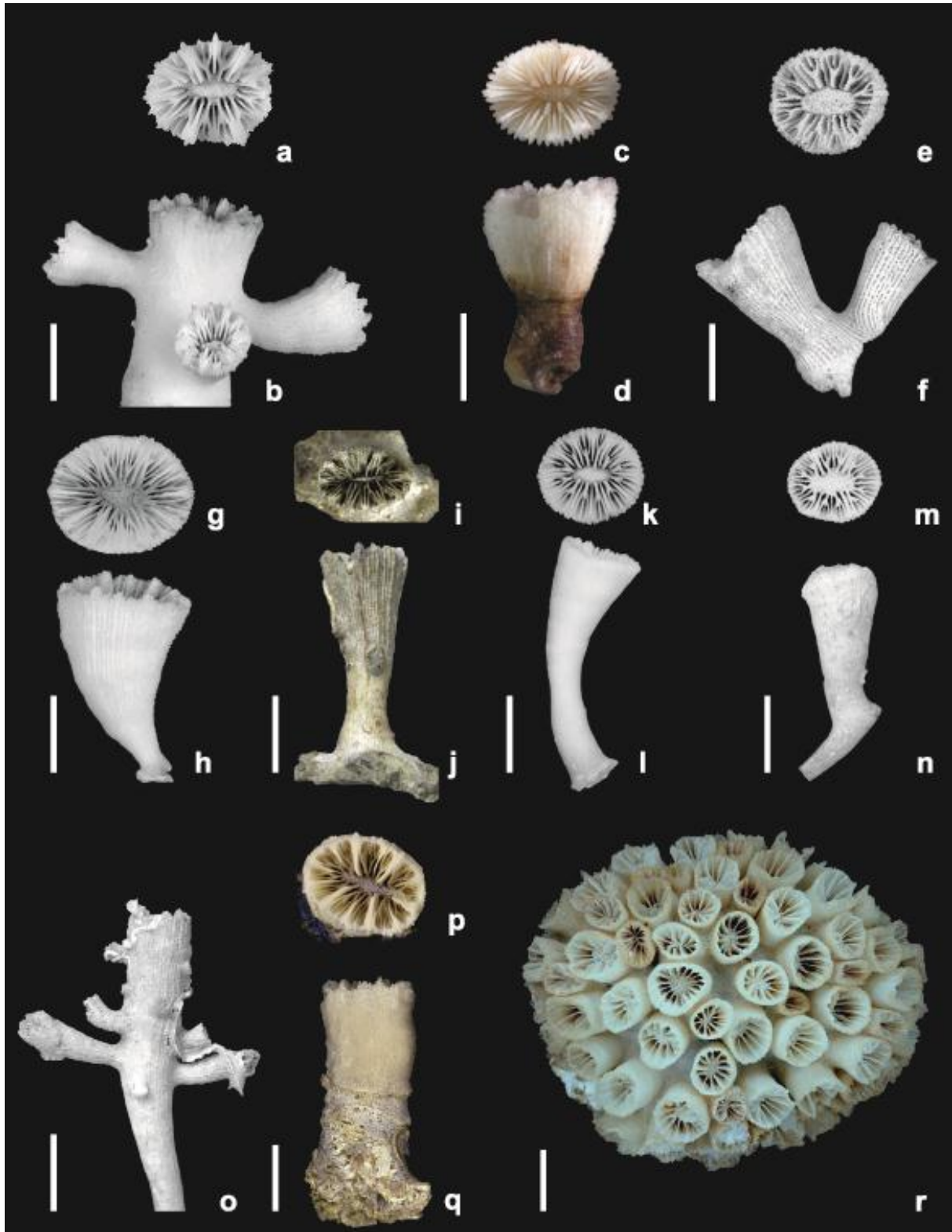


Fig. S4 Order Scleractinia, Family Dendrophylliidae. **a-b** *Balanophyllia cyathoides*; **c-d** *Balanophyllia palifera*; **e-f** *Balanophyllia dineta*; **g-h** *Balanophyllia caribbeana*; **i-j** *Balanophyllia wellsii*; **k-l**, *Balanophyllia bayeri*; **m-n**, *Balanophyllia pittieri*; **o** *Eguchipsammia cornucopia*; **p-q** *Rhizopsammia goesii*; **r** *Tubastraea coccinea*. Scales 5 mm

Family FLABELLIDAE

***Flabellum moseleyi* Pourtalès, 1880**

Figs. S5 a-b

MATERIAL EXAMINED: ARCO: E 149, INV CNI821 (1 specimen), E 150, INV CNI818 (1 specimen), INV CNI819 (1 specimen), E 69, INV CNI420 (2 specimens), INV CNI421 (2 specimens), E 70, INV CNI422 (1 specimen), E 72, INV CNI423 (1 specimen); DAR: E 57, INV CNI419 (1 specimen); MAG: E 142, INV CNI822 (3 specimens), E 43, INV CNI414 (1 specimen), INV CNI415 (2 specimens), E 44, INV CNI416 (3 specimens), INV CNI417 (3 specimens), INV CNI418 (3 specimens); PAL: E 114, INV CNI820 (1 specimen), E 115, INV CNI823 (2 specimens), E 27, INV CNI410 (1 specimen), E 28, INV CNI409 (1 specimen), E 30, INV CNI411 (1 specimen), E 31, INV CNI412 (1 specimen), E 32, INV CNI408 (1 specimen); TAY: E 35, INV CNI407 (1 specimen), E 39, INV CNI413 (1 specimen).

***Javania cailleti* (Duchassaing and Michelotti, 1864)**

Figs. S5 c-d

MATERIAL EXAMINED: ARCO: C 2, INV CNI2417 (1 specimen), C 3, INV CNI2455 (6 specimens), C 4, INV CNI2418 (1 specimen); D 12, INV CNI2441 (7 specimens), E 155, INV CNI824 (9 specimens), INV CNI825 (12 specimens), INV CNI826 (76 specimens), E 156, INV CNI827 (3 specimens), INV CNI828 (4 specimens); GUA: E 94, INV CNI830 (2 specimens), E 95, INV CNI832 (1 specimen); SAN: O-4832, INV CNI307 (1 specimen); TAY: E 122, INV CNI829 (4 specimens), E 123, INV CNI831 (1 specimen), E 8, INV CNI425 (2 specimens), INV CNI426 (2 specimens), E 80, INV CNI427 (1 specimen).

***Polomyces fragilis* Pourtalès, 1868**

Figs. S5 e-f

MATERIAL EXAMINED: TAY: E 7, INV CNI428 (25 specimens), E 8, INV CNI429 (3 specimens), INV CNI430 (68 specimens), INV CNI431 (16 specimens), INV CNI432 (19 specimens), INV CNI433 (34 specimens).

Family FUNGIACYATHIDAE

***Fungiacyathus crispus* (Pourtalès, 1871)**

Figs. S5 i-j

MATERIAL EXAMINED: DAR: E 59, INV CNI348 (3 specimens), E 64, INV CNI349 (1 specimen); MAG: E 45, INV CNI342 (14 specimens), E 46, INV CNI343 (23 specimens), E 48, INV CNI344 (1 specimen), E 49, INV CNI345 (3 specimens), INV CNI346 (4 specimens), E 50, INV CNI347 (2 specimens); PAL: E 26, INV CNI337 (1 specimen); TAY: E 35, INV CNI338 (4 specimens), INV CNI339 (12 specimens), E 36, INV CNI340 (1 specimen), E 37, INV CNI341 (6 specimens).

***Fungiacyathus symmetricus* (Pourtalès, 1871)**

Fig. S5 k

MATERIAL EXAMINED: SAN: INV CNI314 (1 specimen).

Family GARDINERIIDAE

***Gardineria minor* Wells, 1973**

Fig. S5 l

MATERIAL EXAMINED: ARCO: E 246, INV CNI2439 (1 specimen); TAY: 23, INV CNI319 (1 specimen).

Family GUYNIIDAE

***Guynia annulata* Duncan, 1872**

Figs. S5 m-n

MATERIAL EXAMINED: PAL: E 101, INV CNI731 (1 specimen); TAY: E 122, INV CNI730 (1 specimen).

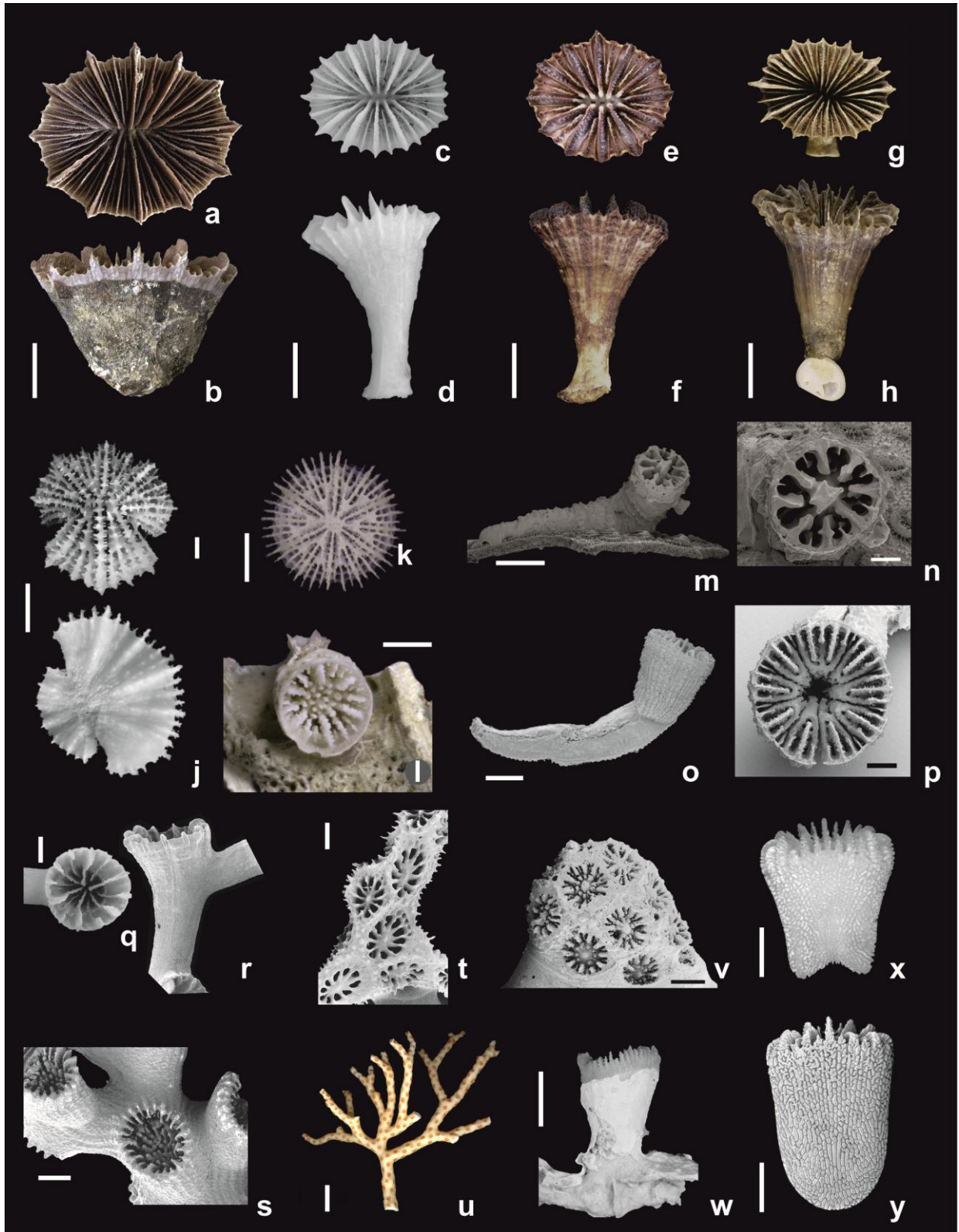


Fig. S5 Order Scleractinia, Family Flabelliidae. **a-b** *Flabellum moseleyi*; **c-d** *Javania cailleti*; **e-f** *Polymyces fragilis*; **g-h** *Polymyces wellsi*. Family Fungyacyathidae, **i-j** *Fungyacyathus crispus*; **k** *Fungyacyathus symmetricus*. Family Gardineriidae, **l** *Gardineria minor*. Family Guyniidae, **m-n** *Guynia annulata*; Family Schizocyathiidae, **o-p** *Schizocyathus fissilis*. Family Oculinidae, **q-r** *Madrepora carolina*, **s** *Oculina tenella*. Family Pocilloporidae, **t** *Madracis asperula*; **u** *Madracis myriaster*; **v** *Madracis pharensis*. Family Rhizangiidae, **w** *Astrangia solitaria*. Family Turbinoliidae, **x** *Sphenotrochus auritus*; **y** *Sphenotrochus lindstroemi*. Scales (**a-b**) 1.5 cm; (**c-h, u**) 5 mm; (**l, x-y**) 2 mm; (**i-k, m, q-t, v, x-y**) 1 mm; N-P = 0.5 mm

Family OCULINIDAE

***Madrepora carolina* (Pourtalès, 1871)**

Figs. S5 q-r

MATERIAL EXAMINED: ARCO: C 1, INV CNI2398 (2 colonies), E 156, INV CNI724 (3 fragments).

***Madrepora oculata* Linnaeus, 1758**

MATERIAL EXAMINED: ARCO: P-364, INV CNI328 (1 fragments).

***Oculina tenella* Pourtalès, 1871**

Fig. S5 s

MATERIAL EXAMINED: GUA: E 98, INV CNI725 (1 fragment), E 99, INV CNI726 (5 fragments); PAL: E 100, INV CNI727 (1 fragment); TAY: E 127, INV CNI728 (2 fragments).

Family POCILLOPORIDAE

***Madracis asperula* Milne Edwards and Haime, 1849**

Fig. S5 t

MATERIAL EXAMINED: ARCO: E 246, INV CNI2426 (2 fragments); GUA: E 234, INV CNI2308 (3 fragments), E 236, INV CNI2168 (1 fragment), INV CNI2244 (14 fragments), E 98, INV CNI892 (6 fragments), E 99, INV CNI891 (4 fragments); PAL: E 100, INV CNI895 (5 fragments), E 101, INV CNI896 (2 fragments), INV CNI897 (1 fragment), E 102, INV CNI2018 (20 fragments), INV CNI2019 (15 fragments), INV CNI2020 (50 fragments), INV CNI2022 (20 fragments), E 103, INV CNI2016 (15 fragments), INV CNI2024 (3 fragments), E 104, INV CNI2023 (40 fragments), E 105, INV CNI2021 (20 fragments), INV CNI2025 (7 fragments), E 240, INV CNI2169 (3 fragments), INV CNI2309 (1 fragment), E 242, INV CNI2167 (15 fragments), E 245, INV CNI2181 (1 fragment).

***Madracis brueggemanni* (Ridley, 1881)**

MATERIAL EXAMINED: ARCO: E 155, INV CNI2029 (2 fragments), E 246, INV CNI2445 (3 fragments).

***Madracis myriaster* (Milne Edwards and Haime, 1849)**

Fig. S5 u

MATERIAL EXAMINED: ARCO: C 1, INV CNI2395 (5 fragments), INV CNI2399 (1 fragment), C 3, INV CNI2456 (37 fragments), INV CNI2475 (1 fragment), C 4, INV CNI2415 (1 fragment); D 12, INV CNI2442 (3 fragments), E 153, INV CNI898 (1 fragment), E 155, INV CNI2012 (20 fragments), INV CNI2013 (50 fragments), INV CNI2015 (3 fragments), INV CNI2026 (6 fragments), INV CNI2027 (8 fragments), INV CNI2031 (500 fragments), INV CNI2032 (5 fragments), E 156, INV CNI2014 (50 fragments), INV CNI2030 (500 fragments), INV CNI2378 (100 fragments), E 246, INV CNI2427 (10 fragments), INV CNI2465 (7 fragments); DAR: E 159, INV CNI901 (2 fragments), E 160, INV CNI899 (3 fragments), E 161, INV CNI900 (1 fragment); GUA: E 88, INV CNI893 (1 fragment), E 9, INV CNI2028 (2 fragments), E 98, INV CNI894 (3 fragments); MOR: E 157, INV CNI903 (132 fragments), E 158, INV CNI902 (15 fragments); TAY: B 917a, INV CNI35 (1 fragment); B 1817b, INV CNI17 (1 fragment), E 8, INV CNI335 (1 fragment), INV CNI336 (1 fragment).

Madracis pharensis* (Heller, 1868)

Fig. S5 v

MATERIAL EXAMINED: ARCO: E 246, INV CNI2425 (1 fragment); TAY: B 917b, INV CNI291 (1 fragment).

Family RHIZANGIIDAE

***Astrangia solitaria* (Lesueur, 1817)**

Fig. S5 w

MATERIAL EXAMINED: DAR: E 170, INV CNI792 (7 specimens), E 191, INV CNI1796 (1 specimen), E 194, INV CNI1794 (26 specimens); GUA: E 213, INV CNI2316 (2 specimens), E 214, INV CNI2298 (1 specimen), E 215, INV CNI2158 (1 specimen), INV CNI2165 (1 specimen); MAG: E 128, INV CNI780 (1 specimen), E 129, INV CNI781 (1 specimen), INV CNI782 (4 specimens), E 131, INV CNI783 (4 specimens), INV CNI784 (5 specimens), E 134, INV CNI789 (12 specimens), E 135, INV CNI786 (1 specimen), INV CNI787 (2 specimens), INV CNI788 (50 specimens), E 136, INV CNI790 (34 specimens), E 139, INV CNI791 (1 specimen); MOR: B 4292, INV CNI1458 (1 specimen); PAL: E 105, INV CNI793 (2 specimens), INV CNI794 (2 specimens), INV CNI795 (7 specimens); TAY: B 4466a, INV CNI213 (1 specimen), E 116, INV CNI779 (1 specimen), E 123, INV CNI785 (3 specimens)

Family SCHIZOCYATHIIDAE

***Schizocyathus fissilis* Pourtalès, 1874**

Figs. S5 o-p

ARCO: E 149, INV CNI734 (2 specimens), E 153, INV CNI732 (1 specimen), E 67, INV CNI445 (3 specimens); DAR: E 159, INV CNI737 (2 specimens), E 160, INV CNI733 (1 specimen), E 59, INV CNI446 (1 specimen), E 63, INV CNI443 (1 specimen), E 64, INV CNI444 (6 specimens); MAG: E 142, INV CNI735 (3 specimens), INV CNI736 (2 specimens), E 45, INV CNI435 (7 specimens), INV CNI436 (15 specimens), E 46, INV CNI438 (11 specimens), INV CNI439 (10 specimens), INV CNI440 (6 specimens), E 49, INV CNI442 (2 specimens), E 50, INV CNI437 (2 specimens); TAY: E 35, INV CNI441 (12 specimens), E 37, INV CNI434 (6 specimens).

Family TURBINOLIIDAE

***Sphenotrochus auritus* Pourtalès, 1874**

Fig. S5 x

MATERIAL EXAMINED: TAY: B 2293, INV CNI911 (14 specimens).

***Sphenotrochus lindstroemi* Cairns, 2000**

Fig. S5 y

MATERIAL EXAMINED: TAY: B 2293, INV CNI913 (2 specimens)

Order ANTIPATHARIA

Family ANTIPATHIDAE

***Antipathes atlantica* Gray, 1857**

Figs. S6 c-d

MATERIAL EXAMINED: PAL: E 103, INV CNI1717 (1 colony).

***Antipathes furcata* Gray, 1857,**

Figs. S6 g-h

MATERIAL EXAMINED: PAL: E 102, INV CNI1715 (1 colony), INV CNI1716 (1 colony), E 108, INV CNI1685 (1 colony), E 240, INV CNI2247 (1 colony).

***Antipathes gracilis* Gray, 1860**

Figs. S6 i-j

MATERIAL EXAMINED: ARCO: E 155, INV CNI1712 (1 colony); PAL: E 102, INV CNI1710 (1 colony), INV CNI1713 (1 colony), E 105, INV CNI1718 (1 colony); TAY: E 120, INV CNI1711 (1 colony), E 123, INV CNI1690 (1 colony).

***Antipathes lenta* Pourtalès, 1871**

Figs. S6 k-l

MATERIAL EXAMINED: GUA: E 237, INV CNI2234 (15 colonies), E 238, INV CNI2235 (11 colonies), E 239, INV CNI2233 (1 colony); PAL: E 102, INV CNI1709 (5 colonies), E 104, INV CNI1706 (1 colony), E 108, INV CNI1704 (1 colony), E 112, INV CNI1705 (1 colony), E 240, INV CNI2266 (5 colonies), E 242, INV CNI2236 (1 colony); TAY: E 119, INV CNI1707 (2 colonies), E 121, INV CNI1708 (4 colonies), E 126, INV CNI1703 (1 colony), E 8, INV CNI1416 (1 colony).

***Antipathes* sp.**

MATERIAL EXAMINED: TAY: E 40, INV CNI1419 (1 colony), E 8, INV CNI1421 (1 colony).

***Cirripathes paucispina* (Brook, 1889)**

MATERIAL EXAMINED: TAY: E 121, INV CNI1700 (1 colony).

***Stichopathes filiformis* (Gray)**

MATERIAL EXAMINED: PAL: E 100, INV CNI1701 (1 colony).

***Stichopathes luetkeni* (Brook, 1889)**

MATERIAL EXAMINED: ARCO: E 155, INV CNI1686 (1 colony), INV CNI1694 (2 colonies), INV CNI1695 (2 colonies); PAL: E 112, INV CNI1698 (1 colony).

***Stichopathes occidentalis* (Gray)**

MATERIAL EXAMINED: ARCO: E 155, INV CNI1688 (15 colonies); PAL: E 108, INV CNI1697 (1 colony); TAY: E 124, INV CNI1699 (1 colony), E 125, INV CNI1692 (1 colony).

***Stichopathes pourtalesi* Brook, 1889**

Fig. S6 n

MATERIAL EXAMINED: GUA: E 96, INV CNI1702 (2 colonies); PAL: E 108, INV CNI1689 (3 colonies), E 112, INV CNI1693 (1 colony); TAY: E 123, INV CNI1696 (12 colonies).

***Stichopathes* sp.**

MATERIAL EXAMINED: GUA: E 225, INV CNI2221 (1 colony), E 234, INV CNI2222 (5 colonies), INV CNI2310 (7 colonies), E 235, INV CNI2224 (1 colony), E 236, INV CNI2223 (1 colony), E 237, INV CNI2232 (1 colony), E 238, INV CNI2230 (92 colonies), INV CNI2231 (45 colonies), E 239, INV CNI2227 (1 colony), INV CNI2228 (1 colony), INV CNI2229 (1 colony); MAG: E 54, INV CNI1428 (1 colony), INV CNI1429 (1 colony); PAL: E 240, INV CNI2226 (1 colony), INV CNI2269 (5 colonies), E 242, INV CNI2225 (2 colonies); TAY: E 40, INV CNI1426 (1 colony), INV CNI1427 (1 colony), E 8, INV CNI1422 (1 colony), INV CNI1423 (1 colony), INV CNI1424 (1 colony), INV CNI1425 (1 colony).

Family APHANIPATHIDAE

***Elatopathes abietina* (Portalès, 1874)**

Figs. S6 a-b

MATERIAL EXAMINED: ARCO: E 155, INV CNI1725 (1 colony), INV CNI1727 (2 colonies), INV CNI1728 (16 colonies), INV CNI1729 (2 colonies); INV CNI1732 (5 colonies), E 156, INV CNI1730 (1 colony).

***Aphanipathes salix* (Portalès, 1880)**

Fig. S6 m

MATERIAL EXAMINED: DAR: E 160, INV CNI1714 (1 colony); TAY: E 8, INV CNI1413 (1 colony), INV CNI1414 (1 colony), INV CNI1415 (1 colony).

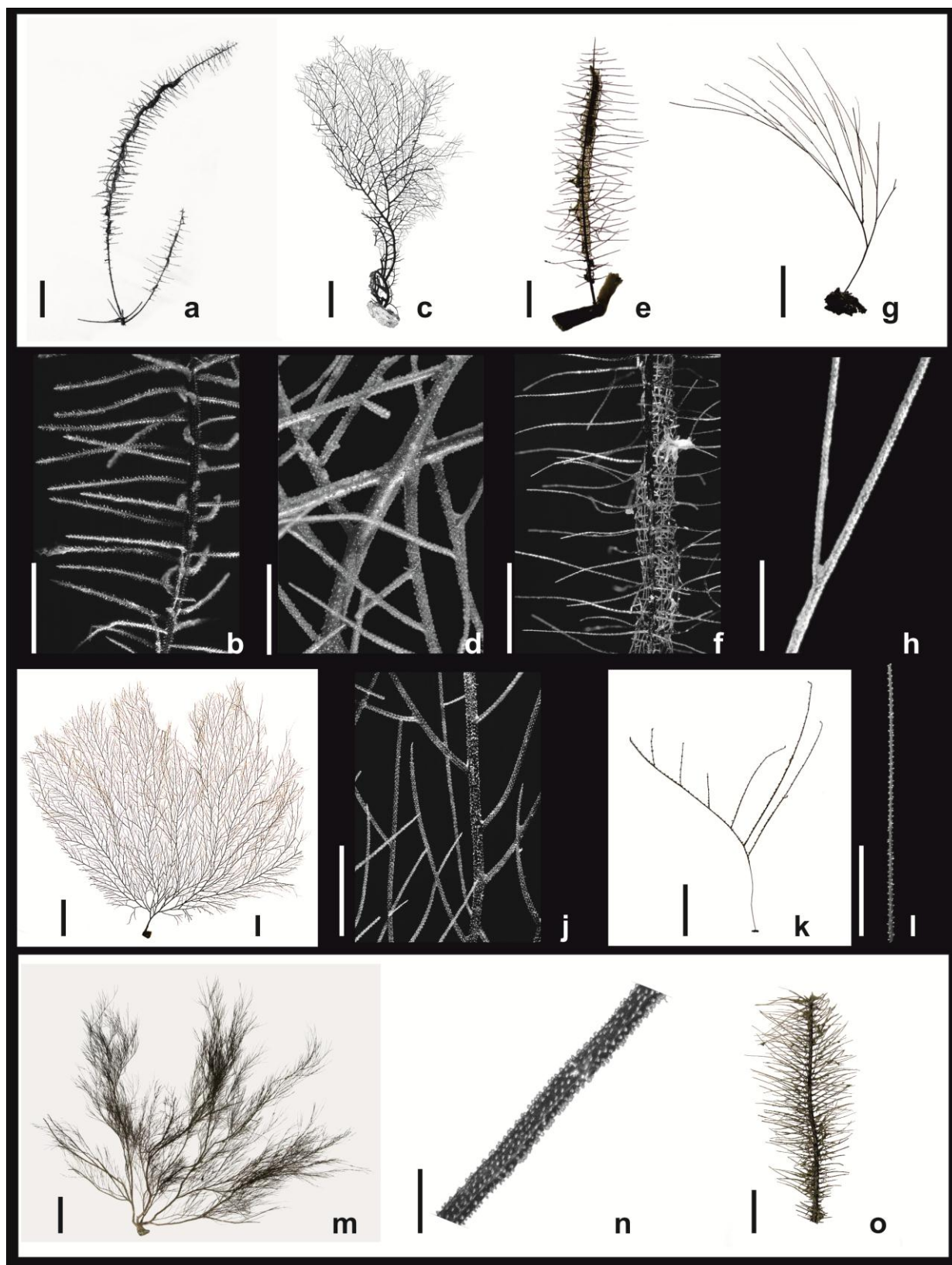


Fig. S6 Order Antipatharia. **a-b** *Elatopathes abietina*; **c-d** *Antipathes atlantica*; **e-f** *Stylopathes columnaris*; **g-h** *Antipathes furcata*; **i-j** *Antipathes gracilis*; **k-l** *Antipathes lenta*; **m** *Aphanipathes salix*; **n** *Stichopathes pourtalesi*; **o** *Tanacetipathes tanacetum*. Scales (**a, e, g-h, k-l, n-o**) 1 cm; (**c, i**) 2 cm; (**m**) 5 cm; (**b, d, f, h, j, l**) 5 mm (Modified from Reyes and Santodomingo 2002)

***Rhipidipathes colombiana* (Opresko and Sánchez, 1997)**

MATERIAL EXAMINED: TAY: E 36, INV CNI1420 (1 colony).

Family MYRIOPATHIDAE

***Tanacetipathes barbadensis* (Brook, 1889)**

MATERIAL EXAMINED: ARCO: E 155, INV CNI1691 (2 colonies); PAL: E 240, INV CNI2237 (1 colony); TAY: E 123, INV CNI1731 (2 colonies).

***Tanacetipathes spiniscens* Gray, 1860**

MATERIAL EXAMINED: ARCO: E 155, INV CNI1687 (1 colony).

***Tanacetipathes tanacetum* (Pourtalès, 1880)**

Fig. S6o

MATERIAL EXAMINED: GUA: E 91, INV CNI1726 (1 colony).

Family STYLOPATHIDAE

***Stylopathes columnaris* (Duchassaing, 1870)**

Figs. S6 e-f

MATERIAL EXAMINED: ARCO: E 155, INV CNI1720 (4 colonies), INV CNI1721 (7 colonies), INV CNI1722 (15 colonies), INV CNI1723 (13 colonies), E 72, INV CNI1418 (1 colony); PAL: E 111, INV CNI1719 (1 colony); TAY: E 122, INV CNI1724 (1 colony), E 8, INV CNI1417 (1 colony)

Order ALCYONACEA

Family ACANTHOGORGIIDAE

***Acanthogorgia aspera* Pourtalès, 1867**

Fig. 7c

MATERIAL EXAMINED: ARCO: E 155, INV CNI1853 (1 colony); E 156, INV CNI1761 (2 colonies); PAL: E 102, INV CNI1852 (1 colony); TAY: E 118, INV CNI1760 (1 colony).

***Acanthogorgia schrammi* Duchassaing and Michelotti, 1864**

Figs. S7 a-b

MATERIAL EXAMINED: PAL: E 102, INV CNI1854 (5 colonies); TAY: E 36, INV CNI1851 (5 colonies).

***Acanthogorgia* sp.**

MATERIAL EXAMINED: GUA: E 234, INV CNI2192 (1 colony); E 237, INV CNI2214 (2 colonies); PAL: E 242, INV CNI2187 (2 colonies).

***Muricella* sp.**

Figs. S7 c-d

MATERIAL EXAMINED: ARCO: E 155, INV CNI1993 (1 colony); PAL: E 102, INV CNI1976 (80 colonies), INV CNI1977 (80 colonies), INV CNI1978 (20 colonies); INV CNI1979 (20 colonies), E 103, INV CNI1980 (60 colonies), E 104, INV CNI1981 (2 colonies), INV CNI1982 (20 colonies), E 105, INV CNI1983 (1 colony), INV CNI1984 (20 colonies), E 108, INV CNI1985 (8 colonies), INV CNI1986 (20 colonies), E 109, INV CNI1987 (20 colonies), E 110, INV CNI1988 (20 colonies), E 111, INV CNI1989 (1 colony), E 112, INV CNI1990 (4 colonies), E 113, INV CNI1991 (2 colonies), E 115, INV CNI1994 (1 colony); TAY: E 118, INV CNI1992 (2 colonies).

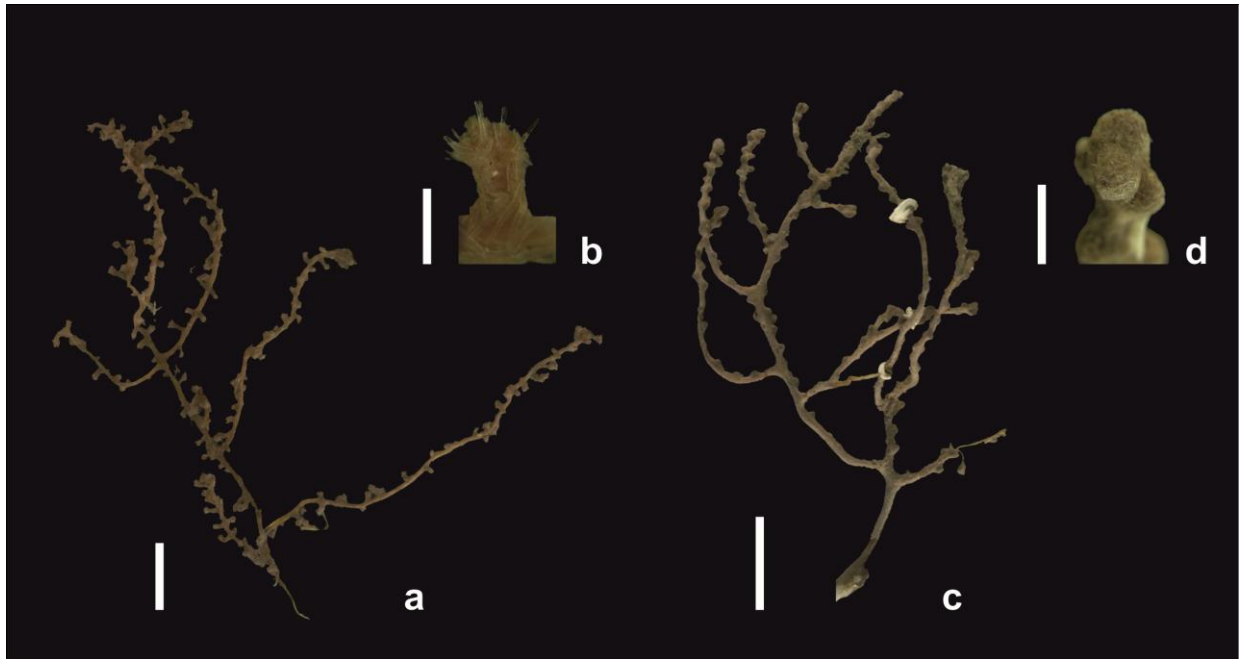


Fig. S7 Order Alcyonacea. Family Acanthogorgiidae. **a-b** *Acanthogorgia schrammi*; **c-d** *Muricella* sp. Scales 1cm

Family ALCYONIIDAE

***Bellonella rubistella* (Deichmann, 1936)**

Figs. 6a, 7a, S11a

MATERIAL EXAMINED: GUA: E 94, INV CNI1435 (1 colony); PAL: E 100, INV CNI1430 (1 colony), E 102, INV CNI1436 (1 colony), E 110, INV CNI1431 (1 colony), E 111, INV CNI1432 (1 colony), INV CNI1433 (1 colony); TAY: E 118, INV CNI1434 (1 colony).

Family ANTHOTHELIDAE

***Diodogorgia nodulifera* (Hargitt and Rogers, 1901)**

Fig. S9 a

MATERIAL EXAMINED: DAR: E 161, INV CNI1811 (1 colony), INV CNI2001 (3 colonies), INV CNI2002 (1 colony), INV CNI2004 (1 colony); GUA: E 212, INV CNI2315 (1 colony), E 231, INV CNI2041 (3 colonies), E 232, INV CNI2073 (1 colony), E 234, INV CNI2053 (20 colonies), E 235, INV CNI2049 (5 colonies), E 236, INV CNI2039 (31 colonies), INV CNI2245 (7 colonies); E 237, INV CNI2065 (32 colonies), E 238, INV CNI2074 (71 colonies), INV CNI2282 (2 colonies), E 239, INV CNI2046 (9 colonies), INV CNI2057 (14 colonies), E 96, INV CNI1768 (1 colony), E 97, INV CNI1799 (3 colonies); INV CNI1813 (2 colonies), INV CNI1997 (1 colony), E 98, INV CNI1800 (2 colonies), INV CNI1808 (3 colonies), INV CNI1817 (2 colonies), E 99, INV CNI1769 (6 colonies), INV CNI1814 (1 colony); PAL: E 100, INV CNI1762 (1 colony), INV CNI1766 (1 colony), INV CNI1818 (1 colony), E 101, INV CNI1783 (1 colony), E 102, INV CNI1774 (3 colonies), INV CNI1775 (20 colonies), INV CNI1778 (6 colonies), INV CNI1779 (10 colonies), INV CNI1780 (1 colony), INV CNI1797 (2 colonies), INV CNI1801 (2 colonies), INV CNI1815 (4 colonies), INV CNI1816 (9 colonies), INV CNI1819 (1 colony), INV CNI1821 (40 colonies); INV CNI1822 (60 colonies), INV CNI1999 (1 colony), INV CNI2000 (2 colonies), INV CNI2006 (1 colony), E 103, INV CNI1798 (2 colonies), INV CNI1802 (2 colonies), INV CNI1803 (3 colonies), INV CNI1823 (60 colonies), INV CNI1998 (1 colony), INV CNI2003 (1 colony), E 104, INV CNI1772 (10 colonies), INV CNI1809 (5 colonies), INV CNI1810 (3 colonies), E 105, INV CNI1804 (4 colonies), INV CNI1807 (5 colonies), INV CNI1812 (3 colonies), E 108, INV CNI1777 (12 colonies), INV CNI1805 (1 colony), E 109, INV CNI1806 (2 colonies), E 110, INV CNI1776 (6 colonies), E 112, INV CNI1784 (1 colony), E 240, INV CNI2048 (2 colonies), INV CNI2268 (8 colonies), E 242, INV CNI2038 (7 colonies), E 245, INV CNI2077 (2 colonies); TAY: E 116, INV CNI1781 (1 colony), E 117, INV CNI1773 (3 colonies), INV CNI1820 (1 colony), E 118, INV CNI1763 (6 colonies), INV CNI1995 (1 colony), INV CNI2005 (4 colonies), E 119, INV CNI1996 (1 colony), E 120, INV CNI1764 (1 colony); E 121, INV CNI1770 (1 colony), E 122, INV CNI1771 (1 colony), E 123, INV CNI1782 (1 colony), E 124, INV CNI1765 (1 colony), INV CNI1767 (1 colony).

Family CHRYSOGORGIIDAE

***Chrysogorgia desbonni* Duchassaing and Michelotti, 1864**

Fig. S10 a

MATERIAL EXAMINED: ARCO: E 75, INV CNI1412 (1 colony).

***Chrysogorgia elegans* Verrill, 1883**

Fig. S10 b

MATERIAL EXAMINED: ARCO: E 149, INV CNI1734 (4 colonies), INV CNI1737 (4 colonies), E 150, INV CNI1733 (12 colonies), INV CNI1738 (1 colony), E 71, INV CNI1838 (1 colony); GUA: E 93, INV CNI1837 (1 colony); PAL: E 115, INV CNI1736 (1 colony); TAY: E 34, INV CNI1836 (1 colony).

***Chrysogorgia* sp.**

Fig. S10 d

MATERIAL EXAMINED: ARCO: E 152, INV CNI1841 (3 colonies), E 153, INV CNI1735 (2 colonies), E 155, INV CNI1840 (1 colony); MAG: E 44, INV CNI1839 (1 colony).

***Chrysogorgia thyrsiformis* Deichmann, 1936**

Fig. S10 c

MATERIAL EXAMINED: ARCO: E 155, INV CNI1739 (1 colony)

***Trichogorgia lyra* Bayer and Muzik, 1976**

Fig. S10 e

MATERIAL EXAMINED: ARCO: D 33, INV CNI2393 (1 colony); DAR: E 161, INV CNI1847 (2 colonies); GUA: E 230, INV CNI2045 (1 colony), E 231, INV CNI2043 (4 colonies), E 234, INV CNI2054 (3 colonies), E 235, INV CNI2051 (2 colonies), E 237, INV CNI2066 (3 colonies), E 238, INV CNI2076 (1 colony), E 88, INV CNI1740 (2 colonies), INV CNI1742 (1 colony), INV CNI1842 (2 colonies), E 90, INV CNI1848 (1 colony); MAG: E 128, INV CNI1749 (3 colonies), E 129, INV CNI1746 (2 colonies); PAL: E 102, INV CNI1743 (2 colonies), INV CNI1843 (60 colonies), INV CNI1844 (11 colonies), E 103, INV CNI1845 (60 colonies), E 104, INV CNI1741 (2 colonies), E 105, INV CNI1846 (3 colonies), E 108, INV CNI1745 (2 colonies), E 240, INV CNI2068 (2 colonies), INV CNI2249 (3 colonies), E 242, INV CNI2067 (22 colonies), E 245, INV CNI2150 (2 colonies); TAY: E 117, INV CNI1744 (1 colony), E 118, INV CNI1849 (1 colony), E 126, INV CNI1748 (2 colonies), E 127, INV CNI1747 (2 colonies).

Family CLAVULARIIDAE

Carijoa riisei* Duchassaing and Michelotti, 1860

Fig. S9 b

MATERIAL EXAMINED: GUA: E 230, INV CNI2059 (1 colony), E 231, INV CNI2040 (2 colonies), E 232, INV CNI2071 (2 colonies), E 234, INV CNI2063 (1 colony), E 235, INV CNI2052 (1 colony), E 236, INV CNI2204 (3 colonies), E 237, INV CNI2193 (4 colonies); E 87, INV CNI1759 (1 colony), E 88, INV CNI1824 (200 colonies), INV CNI1825 (200 colonies), INV CNI1826 (40 colonies); E 89, INV CNI1827 (60 colonies), INV CNI1828 (60 colonies), E 90, INV CNI1758 (7 colonies), INV CNI1829 (60 colonies); INV CNI1830 (60 colonies), E 97, INV CNI1835 (1 colony), E 98, INV CNI1831 (1 colony), E 99, INV CNI1832 (1 colony); MAG: E 44, INV CNI1397 (1 colony); PAL: E 102, INV CNI1833 (3 colonies), INV CNI1834 (2 colonies); TAY: E 42, INV CNI1396 (1 colony).

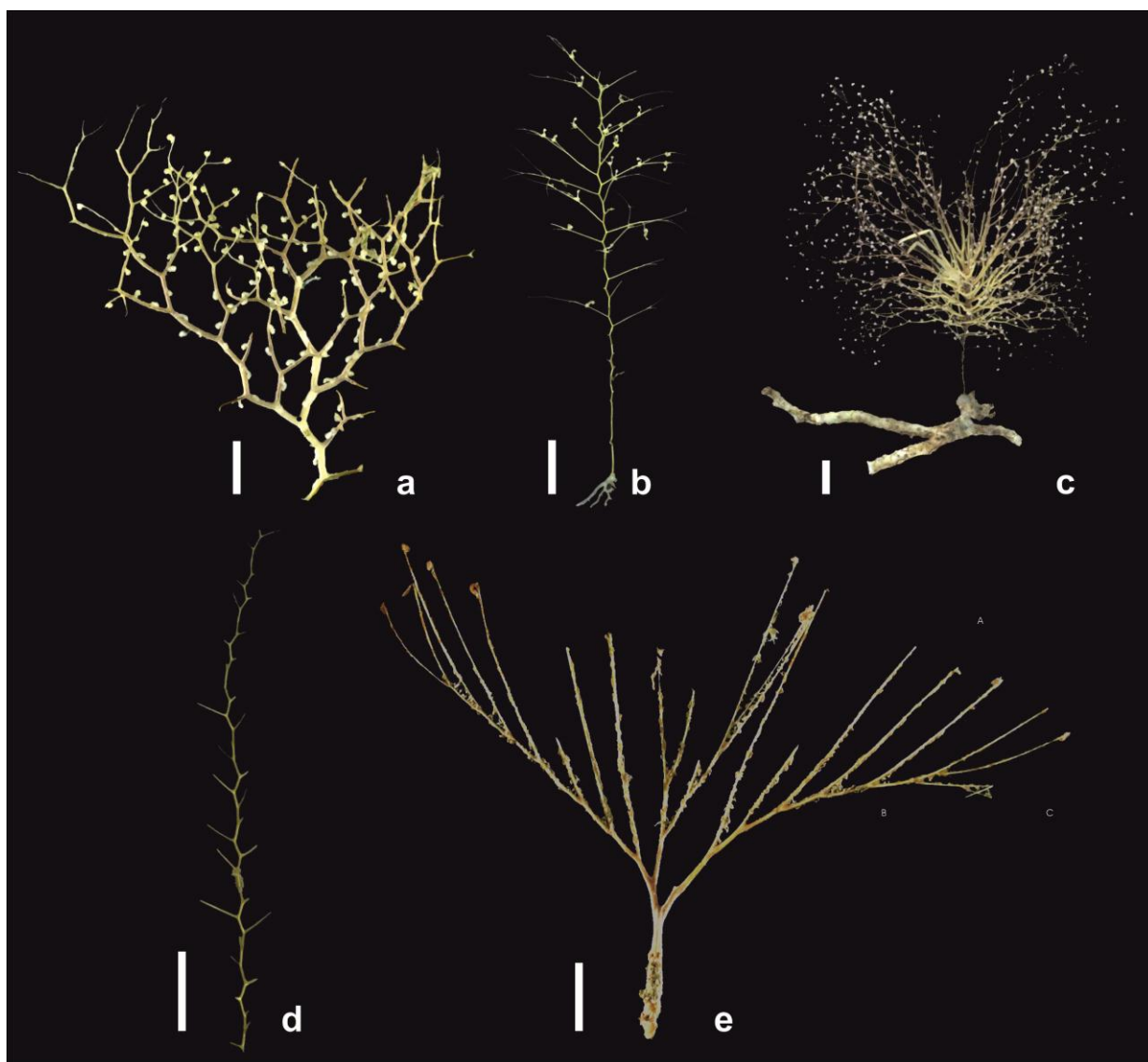


Fig. S8 Order Alcyonacea. Family Chrysogorgiidae, **a** *Chrysogorgia desbonni*; **b** *Chrysogorgia elegans*; **c** *Chrysogorgia thyrsoformis*; **d** *Chrysogorgia* sp.; **e** *Trichogorgia lyra*. Scales 1 cm (Modified from Chacón-Gómez et al. 2010).

Family ELLISELLIDAE

Ctenocella sp.*

Fig. S9 c

MATERIAL EXAMINED: GUA: E 234, INV CNI2288 (10 colonies), E 236, INV CNI2271 (1 colony), E 237, INV CNI2289 (1 colony), E 238, INV CNI2290 (4 colonies), E 239, INV CNI2286 (7 colonies); PAL: E 102, INV CNI1950 (13 colonies), E 104, INV CNI1951 (20 colonies), E 111, INV CNI1952 (1 colony), E 240, INV CNI2283 (4 colonies), E 245, INV CNI2272 (5 colonies)

Ellisella barbadensis (Duchassaing and Michelotti, 1864)*

MATERIAL EXAMINED: GUA: E 236, INV CNI2255 (3 colonies);

Nicella guadalupensis (Duchassaing and Michelotti, 1860)

Figs. 6b, 7b

MATERIAL EXAMINED: ARCO: C 1, INV CNI2438 (2 colonies), C 4, INV CNI2407 (1 colony), INV CNI2413 (1 colony), INV CNI2421 (3 colonies), E 246, INV CNI2443 (1 colony).



Fig. S9 Order Alcyonacea. Family Anthothelidae, **a** *Diodogorgia nodulifera*. Family Clavulariidae, **b** *Carijoa riisei*; Family Ellisellidae, **c** *Ctenocella* sp.; **d-e** *Nicella* sp.; **f** *Riisea paniculata*; **g** *Verrucella* sp.; **h** *Viminella* sp. Scales 1 cm

***Nicella* sp.**

Figs. S9 d-e

MATERIAL EXAMINED: ARCO: C 4, INV CNI2408 (1 colony); E 246, INV CNI2473 (4 colonies); TAY: E 8, INV CNI1407 (1 colony); INV CNI1411 (1 colony); E 80, INV CNI1956 (1 colony).

***Riisea paniculata* Duchassaing and Michelotti, 1860**

Fig. S9 f

MATERIAL EXAMINED: ARCO: E 155, INV CNI1971 (2 colonies); TAY: E 8, INV CNI1408 (1 colony), E 80, INV CNI1970 (1 colony).

***Verrucella* spp.**

Fig. S9 g

MATERIAL EXAMINED: ARCO: C 3, INV CNI2477 (1 colony), E 155, INV CNI1954 (3 colonies), INV CNI1968 (8 colonies), E 156, INV CNI1955 (1 colony), INV CNI1969 (3 colonies); GUA: E 236, INV CNI2287 (3 colonies), E 237, INV CNI2284 (2 colonies), E 238, INV CNI2291 (2 colonies); PAL: E 240, INV CNI2273 (5 colonies); E 245, INV CNI2285 (4 colonies); TAY: E 80, INV CNI1953 (1 colony), INV CNI1972 (1 colony), INV CNI1973 (1 colony).

***Viminella* spp.**

Fig. S9 h

MATERIAL EXAMINED: ARCO: E 146, INV CNI1938 (8 colonies); DAR: E 161, INV CNI1946 (1 colony); GUA: E 237, INV CNI2140 (1 colony); 238, INV CNI2138 (34 colonies), E 239, INV CNI2139 (1 colony), E 96, INV CNI1931 (12 colonies), E 97, INV CNI1932 (12 colonies), INV CNI1960 (3 colonies), E 98, INV CNI1939 (16 colonies), INV CNI1958 (3 colonies), E 99, INV CNI1933 (6 colonies), INV CNI1967 (8 colonies); PAL: E 100, INV CNI1940 (1 colony), INV CNI1962 (2 colonies), E 101, INV CNI1963 (1 colony), E 102, INV CNI1935 (25 colonies), INV CNI1944 (2 colonies), INV CNI1949 (150 colonies), E 103, INV CNI1948 (150 colonies), E 104, INV CNI1936 (30 colonies), E 105, INV CNI1941 (60 colonies), E 108, INV CNI1945 (60 colonies), E 109, INV CNI1942 (16 colonies), E 111, INV CNI1959 (1 colony), E 112, INV CNI1934 (4 colonies), E 240, INV CNI2263 (15 colonies), E 242, INV CNI2211 (1 colony); TAY: E 118, INV CNI1964 (13 colonies), E 119, INV CNI1943 (7 colonies), INV CNI1965 (14 colonies), E 120, INV CNI1961 (2 colonies), E 121, INV CNI1966 (4 colonies), E 122, INV CNI1937 (1 colony), E 124, INV CNI1947 (1 colony), E 8, INV CNI1404 (1 colony), E 80, INV CNI1957 (2 colonies)

Family GORGONIIDAE

Leptogorgia cardinalis* Bayer, 1961

Figs. S10 e-f

MATERIAL EXAMINED: GUA: E 230, INV CNI2055 (1 colony), E 232, INV CNI2069 (1 colony), E 235, INV CNI2056 (1 colony), E 236, INV CNI2205 (1 colony), E 238, INV CNI2207 (1 colony), E 239, INV CNI2208 (1 colony), E 88, INV CNI1908 (1 colony), E 89, INV CNI1909 (1 colony), E 90, INV CNI1910 (2 colonies), E 96, INV CNI1911 (1 colony); PAL: E 102, INV CNI1912 (3 colonies), INV CNI1913 (1 colony), E 103, INV CNI1914 (1 colony), E 114, INV CNI1915 (1 colony).

Leptogorgia medusa* Bayer, 1952

Figs. S10 a-b

MATERIAL EXAMINED: PAL: E 108, INV CNI1929 (1 colony).

Leptogorgia punicea* Milne Edwards and Haime, 1857

Fig. S10 g

MATERIAL EXAMINED: GUA: E 214, INV CNI2250 (2 colonies), E 215, INV CNI2058 (1 colony); MAG: E 134, INV CNI1755 (1 colony), E 135, INV CNI1757 (3 colonies)

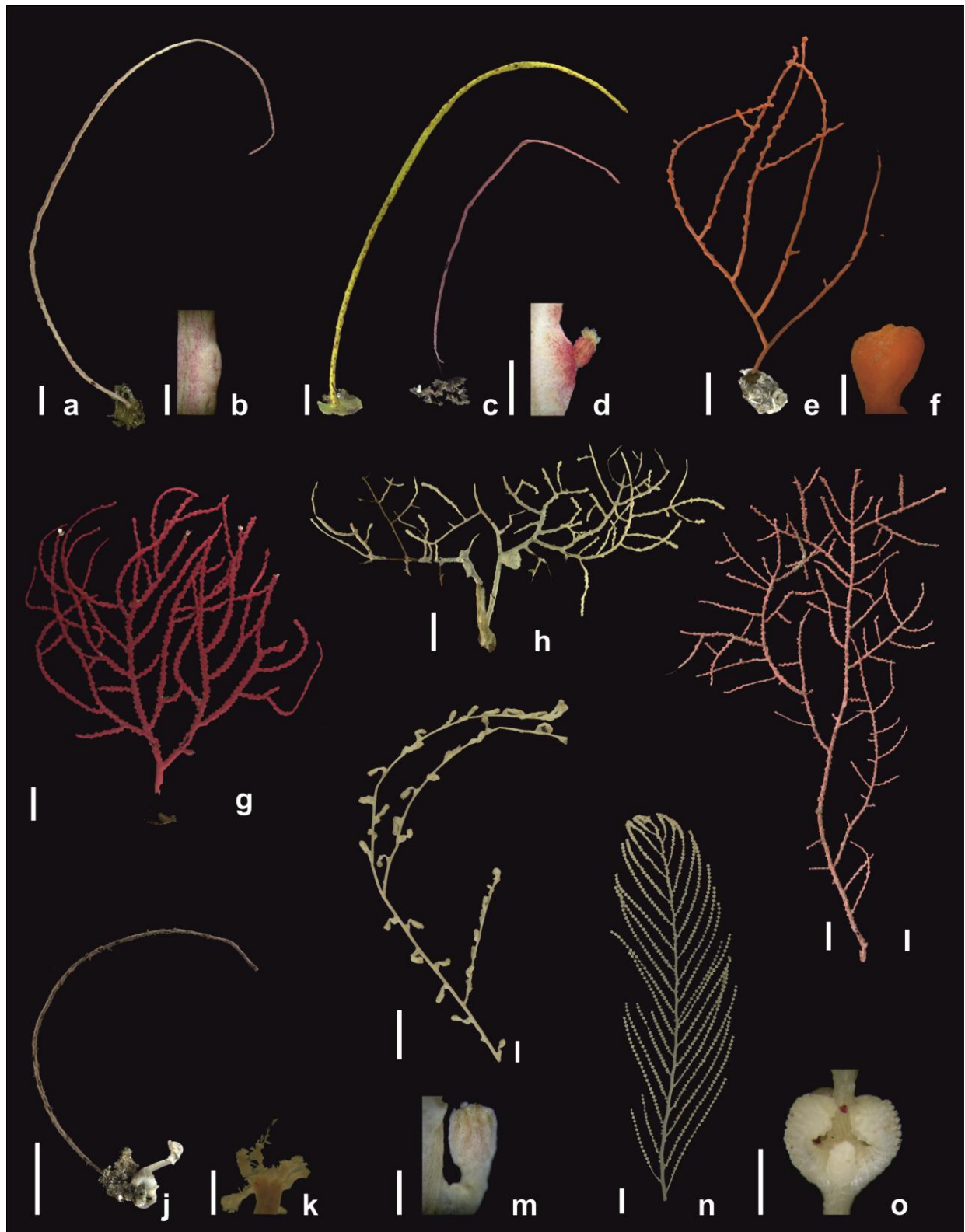


Fig. S10 Order Alcyonacea. Family Gorgoniidae, **a-b** *Leptogorgia medusa*; **c-d** *Leptogorgia setacea*; **e-f** *Leptogorgia cardinalis*; **g** *Leptogorgia punicea*; **h-i**, *Leptogorgia* sp.2; **j-k** *Tobagogorgia hardyi*. Family Keroeidiidae, **l** *Thelogorgia vossi*. Family Primnoidae, **n-o**, *Callogorgia* sp. Scales (**a,c, e-j, l, n**) 1 cm; (**b, d, f, k, m**) 1 mm; (**o**) 5 mm

Leptogorgia setacea Pallas, 1766*

Figs. S10 c-d

MATERIAL EXAMINED: DAR: E 161, INV CNI1922 (1 colony); GUA: E 217, INV CNI2060 (1 colony), E 225, INV CNI2186 (1 colony), E 230, INV CNI2037 (1 colony), E 232, INV CNI2070 (2 colonies), E 234, INV CNI2062 (2 colonies), E 235, INV CNI2050 (1 colony), E 236, INV CNI2206 (2 colonies), E 237, INV CNI2148 (1 colony), E 238, INV CNI2185 (2 colonies), E 239, INV CNI2047 (2 colonies), INV CNI2281 (6 colonies), E 88, INV CNI1919 (1 colony); PAL: E 104, INV CNI1753 (5 colonies), E 105, INV CNI1920 (1 colony), E 108, INV CNI1752 (2 colonies), INV CNI1928 (1 colony), E 109, INV CNI1923 (5 colonies), E 110, INV CNI1924 (1 colony), E 111, INV CNI1925 (1 colony), E 240, INV CNI2265 (1 colony); TAY: E 117, INV CNI1751 (1 colony), E 118, INV CNI1926 (1 colony), E 119, INV CNI1927 (3 colonies), E 124, INV CNI1750 (2 colonies), E 127, INV CNI1754 (1 colony), INV CNI1921 (2 colonies).

Leptogorgia sp. 1*

MATERIAL EXAMINED: GUA: E 234, INV CNI2274 (2 colonies), E 237, INV CNI2254 (4 colonies), E 238, INV CNI2280 (2 colonies).

Leptogorgia sp. 2*

Figs. S10 h-i

MATERIAL EXAMINED: GUA: E 234, INV CNI2259 (2 colonies); E 236, INV CNI2278 (1 colony), E 239, INV CNI2276 (1 colony), E 88, INV CNI1916 (3 colonies), INV CNI1918 (1 colony), E 90, INV CNI1917 (1 colony); MAG: E 130, INV CNI1756 (2 colonies), E 44, INV CNI1974 (1 colony); PAL: E 197, INV CNI2277 (1 colony), E 240, INV CNI2267 (4 colonies)

Pterogorgia sp.+

MATERIAL EXAMINED: GUA: E 207, INV CNI2215 (2 colonies), E 215, INV CNI2189 (3 colonies), E 217, INV CNI2190 (1 colony)

***Tobagogorgia hardyi* Sánchez and Acosta de Sánchez, 2004**

Figs. S10 j-k

MATERIAL EXAMINED: GUA: E 234, INV CNI2270 (1 colony), E 237, INV CNI2209 (7 colonies), E 238, INV CNI2184 (11 colonies), E 239, INV CNI2183 (26 colonies); PAL: E 102, INV CNI1896 (2 colonies), E 103, INV CNI1894 (3 colonies); TAY: E 116, INV CNI1893 (1 colony), E 118, INV CNI1897 (1 colony), E 119, INV CNI1895 (1 colony), E 126, INV CNI1892 (1 colony), E 127, INV CNI1898 (1 colony).

Family KEROEIDIDAE

***Thelogorgia vossi* Bayer, 1991**

Figs. S10 l-m

MATERIAL EXAMINED: TAY: E 8, INV CNI1401 (1 colony)

Family NEPHTHEIDAE

***Stereonephthya portoricensis* (Hargitt, 1901)**

Figs. S11 b-c

MATERIAL EXAMINED: ARCO: C 4, INV CNI2424 (1 colony), E 155, INV CNI1446 (1 colony), E 156, INV CNI1445 (1 colony); PAL: E 102, INV CNI1439 (1 colony), INV CNI1440 (1 colony), E 104, INV CNI1441 (1 colony), E 108, INV CNI1442 (1 colony); TAY: E 122, INV CNI1443 (1 colony), E 123, INV CNI1444 (1 colony), E 8, INV CNI1399 (1 colony), INV CNI1400 (1 colony)

Family NIDALIIDAE

***Nidalia deichmannae* Utinomi, 1954**

Fig. S11 d

MATERIAL EXAMINED: ARCO: E 246, INV CNI2446 (1 colony)

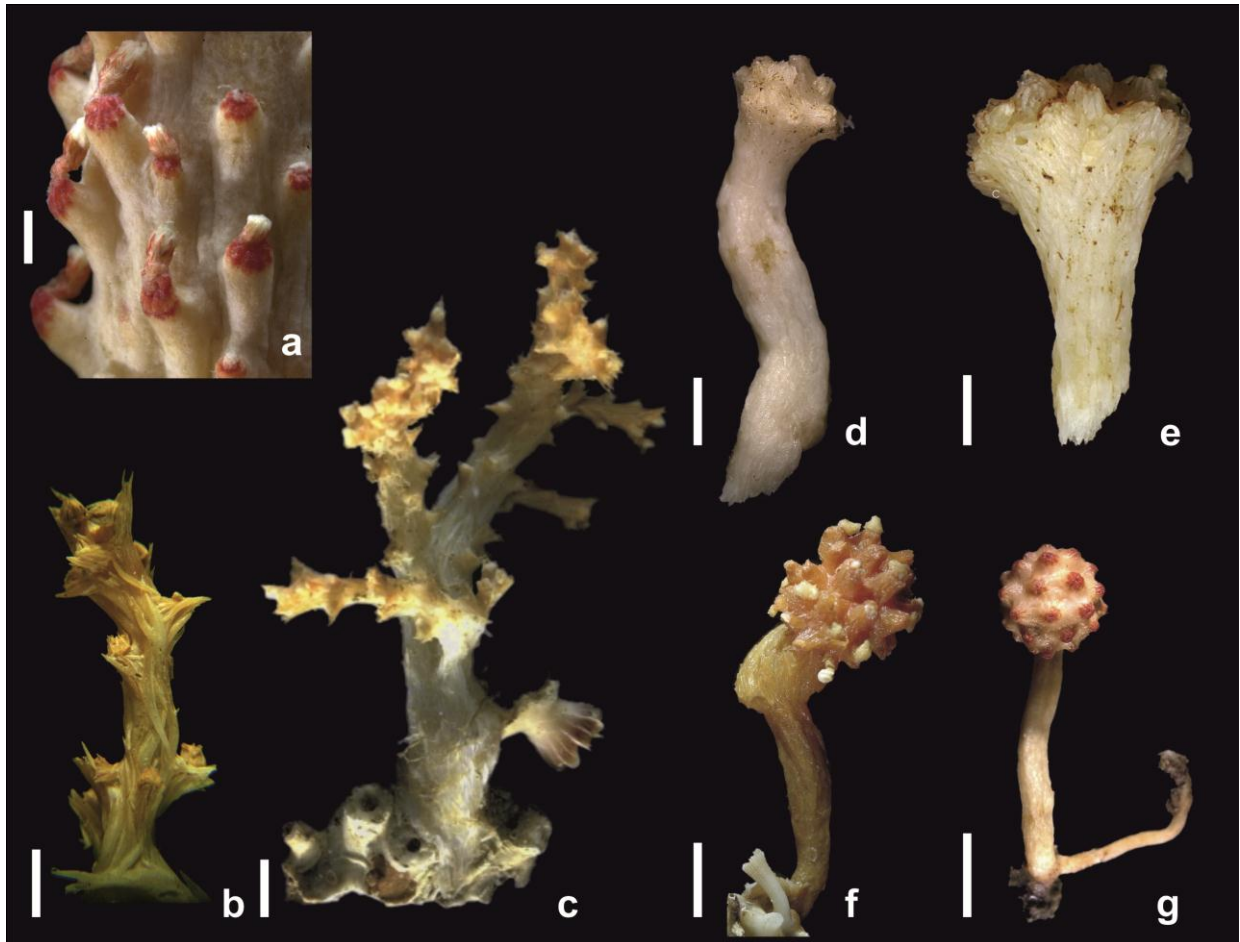


Fig. S11 Order Alcyonacea. Family Alcyoniidae, **a** *Bellonella rubistella*. Family Nephtheidae, **b-c** *Stereonephthya portoricensis*. Family Nidaliidae, **d** *Nidalia deichmannae*; **e** *Nidalia dissidens*; **f** *Nidalia occidentalis*; **g** *Nidalia rubripunctata*. Scale bars (a) 1mm; (b,e,g) 5 mm; (c-d,f) 1 cm

***Nidalia dissidens* Verseveldt and Bayer, 1988**

Fig. S11 e

MATERIAL EXAMINED: TAY: E 8, INV CNI1398 (1 colony).

***Nidalia occidentalis* Gray, 1835**

Fig. S11 f

MATERIAL EXAMINED: ARCO: E 155, INV CNI1438 (1 colony), E 246, INV CNI2471 (3 colonies).

***Nidalia rubripunctata* Versvedelt and Bayer, 1988**

Fig. S11 g

MATERIAL EXAMINED: ARCO: E 156, INV CNI1437 (1 colony); GUA: E 96, INV CNI1448 (1 colony), E 97, INV CNI1449 (1 colony), E 98, INV CNI1447 (1 colony), E 99, INV CNI1450 (1 colony); PAL: E 102, INV CNI1456 (1 colony), INV CNI1457 (1 colony), E 104, INV CNI1451 (1 colony), E 105, INV CNI1452 (1 colony); TAY: E 118, INV CNI1455 (1 colony), E 119, INV CNI1454 (1 colony), E 123, INV CNI1453 (1 colony).

***Nidalia* sp.**

MATERIAL EXAMINED: GUA: E 238, INV CNI2078 (7 colonies), INV CNI2137 (5 colonies); PAL: E 102, INV CNI2011 (6 colonies), E 242, INV CNI2061 (1 colony).

***Siphonogorgia agassizii* (Deichmann, 1936)**

MATERIAL EXAMINED: ARCO: E 246, INV CNI2472 (1 colony), C 4, INV CNI2422 (1 colony).

Family PLEXAURIDAE

***Astrogorgia* sp.**

Figs. S12 a-b

MATERIAL EXAMINED: GUA: E 88, INV CNI1902 (1 colony), E 89, INV CNI1903 (2 colonies), E 90, INV CNI1904 (5 colonies); TAY: E 118, INV CNI1975 (2 colonies).

***Eunicea* sp.+**

MATERIAL EXAMINED: GUA: E 205, INV CNI2482 (4 colonies), INV CNI2489 (1 colony), INV CNI2492 (7 colonies), INV CNI2493 (1 colony), E 206, INV CNI2480 (2 colonies), INV CNI2481 (5 colonies), INV CNI2483 (5 colonies), INV CNI2485 (3 colonies), INV CNI2486 (3 colonies), INV CNI2487 (2 colonies), INV CNI2488 (6 colonies), INV CNI2490 (9 colonies), INV CNI2491 (3 colonies), E 207, INV CNI2484 (2 colonies).

***Hypnogorgia pendula* Duchassaing and Michelotti, 1864**

Figs. S12 c-d

MATERIAL EXAMINED: ARCO: E 155, INV CNI1907 (2 colonies).

***Lytrea plana* (Deichmann, 1936)**

MATERIAL EXAMINED: ARCO: D 33, INV CNI2387 (1 colony).

***Muricea elongata* (Lamouroux, 1821)+**

Figs. S12 e-f

MATERIAL EXAMINED: TAY: E 116, INV CNI1906 (1 colony).

***Paracis* sp.**

MATERIAL EXAMINED: ARCO: C 4, INV CNI2406 (1 colony); GUA: E 238, INV CNI2275 (1 colony); PAL: E 240, INV CNI2257 (3 colonies), INV CNI2258 (50 colonies), E 242, INV CNI2256 (88 colonies), E 245, INV CNI2251 (5 colonies).

***Placogorgia atlantica* Wright and Studer, 1889**

Figs. S12 g-h

MATERIAL EXAMINED: TAY: E 124, INV CNI1891 (1 colony), E 8, INV CNI1403 (1 colony), E 80, INV CNI1889 (3 colonies), INV CNI1890 (1 colony).

***Placogorgia tenuis* (Verrill, 1883)**

Figs. S12 i-j

MATERIAL EXAMINED: ARCO: E 155, INV CNI1888 (1 colony), E 156, INV CNI1886 (1 colony); TAY: E 8, INV CNI1402 (1 colony), E 80, INV CNI1887 (1 colony).

***Scleracis guadaloupensis* Duchassaing and Michelotti, 1860**

Figs. S12 k-l

MATERIAL EXAMINED: ARCO: C 4, INV CNI2420 (2 colonies); TAY: E 80, INV CNI1901 (5 colonies).

***Scleracis pumila* Reiss, 1919**

MATERIAL EXAMINED: ARCO: C 4, INV CNI2405 (1 colony).

***Scleracis* sp.**

MATERIAL EXAMINED: ARCO: D 33, INV CNI2388 (1 colony); D 76, INV CNI2453 (1 colony); GUA: E 238, INV CNI2279 (1 colony); PAL: E 240, INV CNI2253 (15 colonies), INV CNI2260 (11 colonies), INV CNI2261 (14 colonies), E 242, INV CNI2252 (20 colonies), E 245, INV CNI2262 (6 colonies).

***Swiftia exserta* Duchassaing and Michelotti, 1864**

Figs. S12 m-n

MATERIAL EXAMINED: DAR: E 161, INV CNI2010 (1 colony); PAL: E 102, INV CNI2007 (3 colonies), E 104, INV CNI2008 (1 colony), E 108, INV CNI2009 (1 colony).

***Thesea bicolor* Deichmann, 1936**

Fig. S12 o

MATERIAL EXAMINED: PAL: E 108, INV CNI1899 (1 colony).

***Thesea nutans* (Duchassaing and Michelotti, 1864)**

MATERIAL EXAMINED: ARCO: C 4, INV CNI2414 (1 colony); D 33, INV CNI2385 (1 colony)

***Thesea parviflora* Deichmann, 1936**

Figs. S12 p-q

MATERIAL EXAMINED: GUA: E 97, INV CNI1871 (4 colonies), E 99, INV CNI1876 (6 colonies); PAL: E 100, INV CNI1878 (2 colonies), E 101, INV CNI1872 (2 colonies), E 102, INV CNI1882 (60 colonies), INV CNI1884 (3 colonies), E 103, INV CNI1883 (60 colonies), E 104, INV CNI1880 (13 colonies), E 105, INV CNI1879 (10 colonies), E 109, INV CNI1877 (4 colonies), E 112, INV CNI1881 (2 colonies); TAY: E 119, INV CNI1873 (6 colonies), E 120, INV CNI1874 (1 colony), E 121, INV CNI1875 (4 colonies), E 126, INV CNI1885 (1 colony).

***Thesea solitaria* Pourtalès, 1868**

Fig. S12 r

MATERIAL EXAMINED: TAY: E 80, INV CNI1900 (1 colony)

***Thesea* sp.**

MATERIAL EXAMINED: GUA: E 231, INV CNI2042 (1 colony), E 238, INV CNI2075 (3 colonies), E 239, INV CNI2044 (7 colonies), E 89, INV CNI1865 (1 colony), E 90, INV CNI1861 (3 colonies), E 94, INV CNI1864 (8 colonies), E 95, INV CNI1857 (60 colonies), E 97, INV CNI1863 (1 colony), E 98, INV CNI1855 (1 colony); PAL: E 100, INV CNI1867 (1 colony), E 102, INV CNI1860 (3 colonies), E 103, INV CNI1862 (1 colony), E 104, INV CNI1859 (1 colony), E 105, INV CNI1856 (1 colony), E 108, INV CNI1869 (3 colonies), E 240, INV CNI2264 (1 colony); TAY: E 118, INV CNI1866 (5 colonies), E 119, INV CNI1870 (6 colonies), E 120, INV CNI1858 (1 colony), E 121, INV CNI1868 (2 colonies).

***Villogorgia nigrescens* Duchassaing and Michelotti, 1860**

Fig. S12 s

MATERIAL EXAMINED: TAY: E 8, INV CNI1405 (1 colony), INV CNI1406 (1 colony).

***Villogorgia* sp.**

MATERIAL EXAMINED: PAL: E 112, INV CNI1905 (1 colony).

Family PRIMNOIDAE

***Callogorgia* sp.**

Figs. S10 n-o

MATERIAL EXAMINED: TAY: E 42, INV CNI1410 (1 colony), E 8, INV CNI1409 (1 colony), E 80, INV CNI1850 (4 colonies).

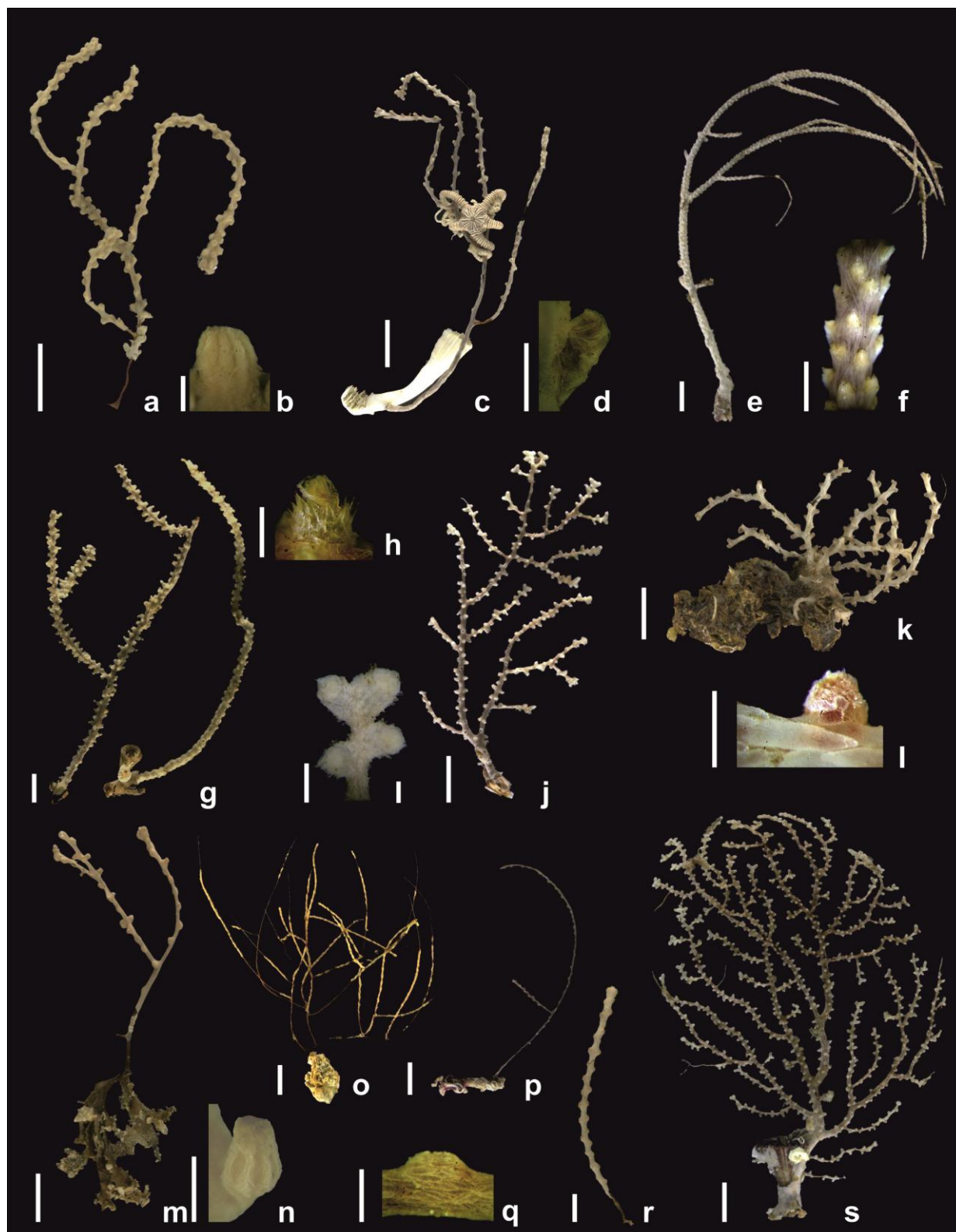


Fig. S12 Order Alcyonacea. Family Plexauridae, **a-b** *Astrogorgia* sp.; **c-d** *Hypnogorgia pendula*; **e-f** *Muricea elongata*; **g-h** *Placogorgia atlantica*; **i-j** *Placogorgia tenuis*; **k-l** *Scleracis guadaloupensis*; **m-n** *Swiftia exserta*; **o** *Thesea bicolor*; **p-q** *Thesea parviflora*; **r** *Thesea solitaria*; **s** *Villogorgia nigrescens*. Scales (**a, c, e, g, j-k, m, o-p, r-s**) 1 cm; (**f**) 2 mm; (**b, d, h, i, l, n, q**) 1 mm (**a-c, g-h** modified from Chacón-Gómez et al. 2012).

ORDER PENNATULACEA

Family KOPHOBELEMNIDAE

Sclerobelemnon theseus Bayer, 1959

Figs. S13 a-l

MATERIAL EXAMINED: ARCO: E 147, INV CNI2118 (1 colony); GUA: E 237, INV CNI2119 (1 colony); MAG: E 132, INV CNI2112 (92 colonies); E 133, INV CNI2113 (19 colonies), E 134, INV CNI2114 (16 colonies), E 135, INV CNI2115 (3 colonies), E 137, INV CNI2116 (23 colonies), E 138, INV CNI2117 (5 colonies); PAL: E 108, INV CNI2108 (10 colonies), E 109, INV CNI2109 (7 colonies), E 110, INV CNI2110 (4 colonies), E 244, INV CNI2314 (1 colony), E 245, INV CNI2120 (1 colony); TAY: E 121, INV CNI2111 (2 colonies).

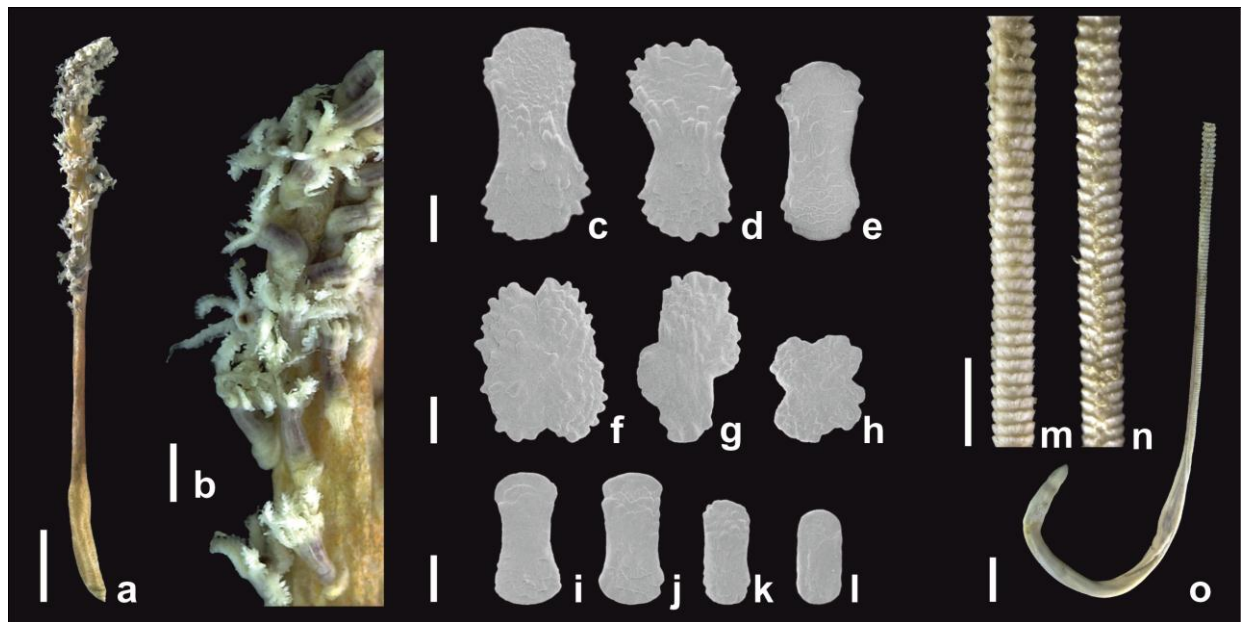


Fig. S13 Order Pennatulacea, Family Kophobelemnidae, **a-l** *Sclerobelemnon theseus*. **a** colony showing the end swelling stalk, **b** detail of autozooids arranged in irregular longitudinal rows, **c-h** sclerites of rachis, **i-l** sclerites of autozooids; Family Virgulariidae, **m-o** *Stylatula* sp., **m-n** detail of autozooid arranged in leaves, **o** large and slender colony. Scales (**a**, **o**) 1 cm; (**b**, **m-n**) 5 mm; (**c-l**) 40 μm

Family RENILLIDAE

Renilla muelleri K  lliker, 1872

Figs. S14 a-g

MATERIAL EXAMINED: GUA: E 215, INV CNI2034 (2 colonies), E 217, INV CNI2064 (2 colonies), E 224, INV CNI2083 (1 colony), E 227, INV CNI2033 (1 colony), E 230, INV CNI2036 (1 colony), E 231, INV CNI2035 (5 colonies), E 232, INV CNI2072 (7 colonies), E 85, INV CNI2087 (44 colonies), E 86, INV CNI2088 (55 colonies), E 87, INV CNI2089 (16 colonies), INV CNI2090 (28 colonies), E 88, INV CNI2091 (9 colonies), INV CNI2092 (2 colonies); MAG: E 128, INV CNI2102 (122 colonies); E129, INV CNI2103 (139 colonies), E 130, INV CNI2104 (2 colonies); PAL: E 102, INV CNI2098 (1 colony), E 104, INV CNI2093 (6 colonies), E 105, INV CNI2094 (3 colonies), E 108, INV CNI2095 (10 colonies), E 109, INV CNI2096 (1 colony), E 195, INV CNI2081 (189 colonies), E 197, INV CNI2082 (95 colonies), INV CNI2131 (3 colonies), E 198, INV CNI2086 (5 colonies); TAY: E 116, INV CNI2097 (5 colonies), E 117, INV CNI2099 (5 colonies), E 118, INV CNI2100 (1 colony), E 119, INV CNI2101 (1 colony).

Renilla reniformis (Pallas, 1766)

Figs. S14 h-o

MATERIAL EXAMINED: DAR: E 175, INV CNI1791 (126 colonies), E 176, INV CNI1792 (57 colonies), E 177, INV CNI1788 (56 colonies), E 178, INV CNI1793 (38 colonies), E 185, INV CNI1789 (6 colonies), E 186,

INV CNI1790 (5 colonies); MAG: E 128, INV CNI2105 (71 colonies), E 129, INV CNI2106 (77 colonies), E 130, INV CNI2107 (4 colonies); PAL: E 195, INV CNI2079 (873 colonies), INV CNI2085 (15 colonies), E 197, INV CNI2080 (386 colonies), INV CNI2132 (1 colony), E 198, INV CNI2084 (3 colonies).

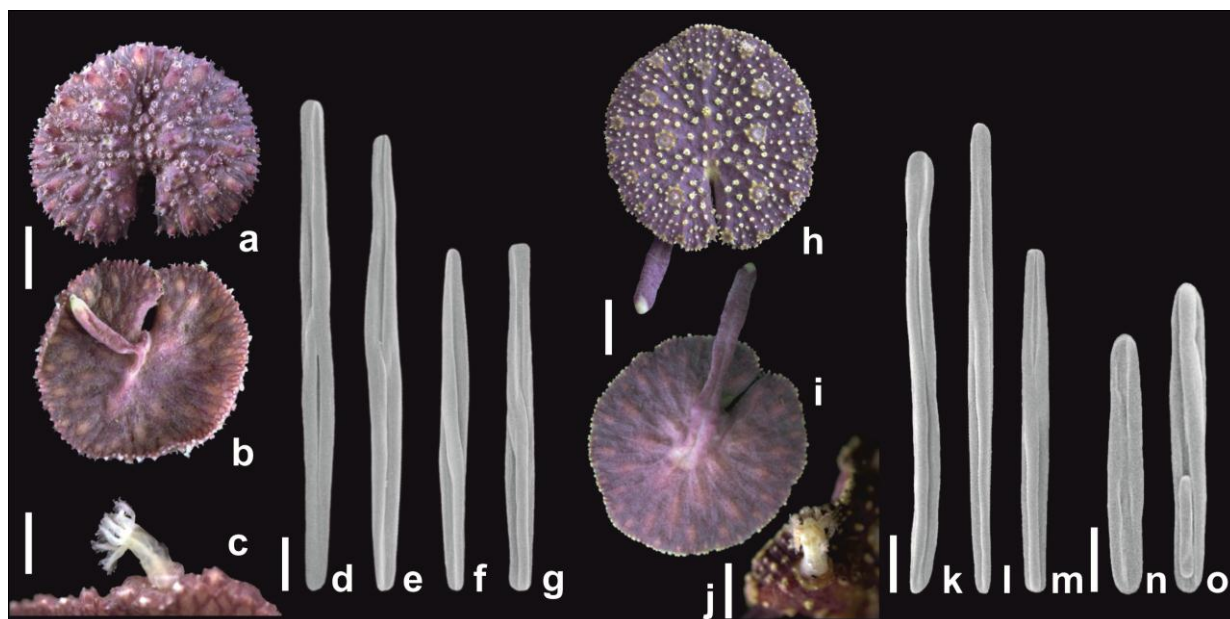


Fig. S14 Order Pennatulacea. Family Renillidae, **a-g** *Renilla muelleri*. **a** colony top view, **b** colony basal view showing the peduncle attached to the limits of rachis, **c** detail of autozoid, **d-g** sclerites ; **h-o** *Renilla reniformis*, **h** colony top view showing the distinctive bright yellow calicinal seven teeth around the autozooids, **i** colony basal view showing the long stalk, **j**, detail of autozoid, **k-o** sclerites. Scales (**a-b,h-i**) 1 cm; (**c, j**) 5 mm; (**d-g, k-m**) 40 μ m; (**n-o**) 20 μ m.

Family VIRGULARIIDAE

Acanthoptilum spp.

Figs. S15 a-h

MATERIAL EXAMINED: ARCO: E 144, INV CNI2121 (1 colony); GUA: E 225, INV CNI2188 (1 colony), E 234, INV CNI2191 (1 colony), E 236, INV CNI2135 (9 colonies), E 237, INV CNI2136 (3 colonies), INV CNI2210 (1 colony), E 238, INV CNI2134 (18 colonies), E 239, INV CNI2133 (13 colonies); TAY: E 120, INV CNI2122 (2 colonies), E 121, INV CNI2123 (1 colony)

Stylatula diadema Bayer, 1959*

MATERIAL EXAMINED: ARCO: B 1904, INV CNI1289 (1 colony); B 1955, INV CNI1290 (1 colony).

Stylatula sp.

Figs. S13 m-o

MATERIAL EXAMINED: ARCO: D16, INV CNI2389 (1 colony).

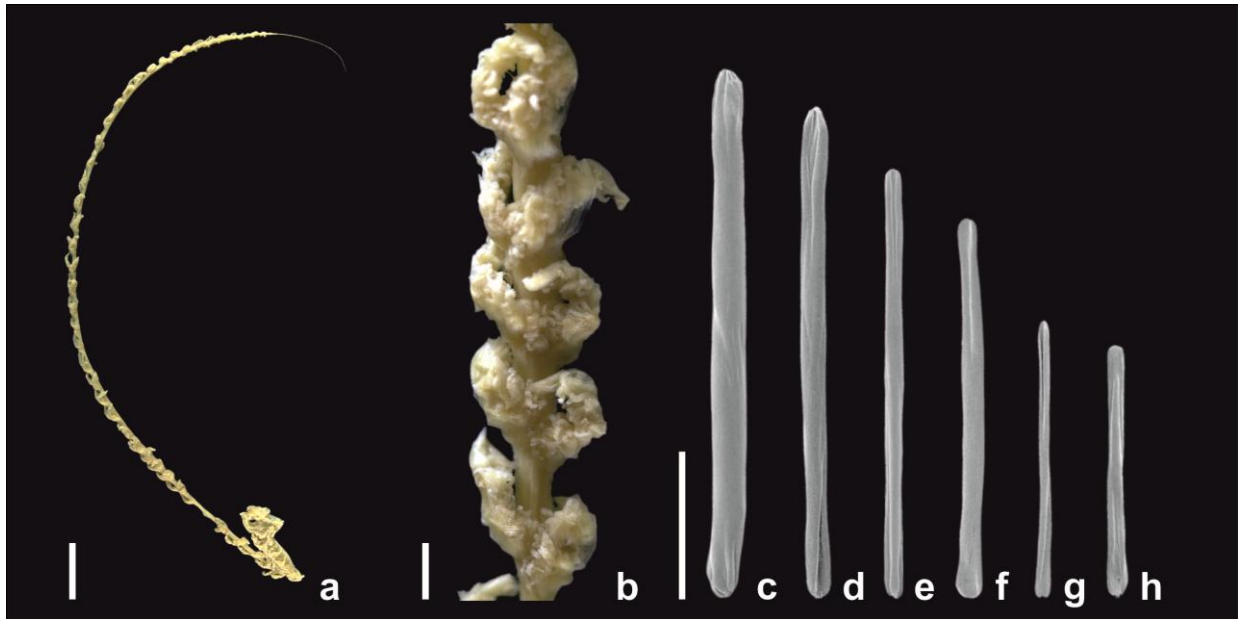


Fig. S15 Order Pennatulacea. Family Virgulariidae, *Acanthoptilum* sp., **a** whip-like colony; **b** detail of polyps arranged in leaves; **c-h** sclerites. Scales (**a**) 1 cm; (**b**) 5 mm; (**c-h**) 50 μ m