

Morphological re-assessment of the *Boodlea composita*–*Phyllodictyon anastomosans* species complex (Siphonocladales: Chlorophyta)

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Supplementary material

Specimens examined

1. *anastomosans* morphotype: **Atlantic Ocean: Bermuda.** Harrington Sound, epilithic, (leg. Howe 130, 18.vi.1900, NY; leg. Howe 131, 18.vi.1900, NY: holotype of *Boodlea struveoides*); **Equatorial Guinea.** Annobon Island, infralittoral fringe, (leg. Milbraed 6659, x.1911, B A141: holotype of *Struvea multipartita*); **Caribbean Sea: Barbados.** Rocky Bay, (leg. Vickers s.n., 23.ii.1899, BR); **Colombia.** Santa Marta, Ensenada de Concha, intertidal, epilithic, (leg. Schnetter A 1281, 30.vii.1970, L 366235); **Curaçao.** Boca Ascension, (leg. Vroman Cu 109-4, 23.iv.1958, L 8168); **Puerto Rico.** W of mouth of Guanica Harbor, low intertidal, on *Rhizophora* stilt roots, (leg. Howe 7277, 30.vi.1915, L 938 303 961); **Indian Ocean: Australia.** Fremantle, Western Australia, (leg. Harvey 21, 1853, AK 26743; leg. Harvey 582a, BM: lectotype and isolectotypes of *Cladophora anastomosans*; same number, MEL 666891 and S: isolectotypes); **Kenya.** Gazi, (leg. Coppejans *et al.*, 15.ix.1992, HEC 9479a); Kanamai, Mombasa, (leg. Coppejans, i.1986, HEC 6063); Kanamai, Mombasa, (leg. Coppejans, ii.1986, HEC 6108); Mc Kenzie Point, Mombasa, (leg. Coppejans, i.1986, HEC 6018); Mwamba Beach, Mombasa, epiphytic on *Laurencia papillosa*, (leg. Coppejans, 5.ix.1991, HEC 8690); Nyali Beach reef, Mombasa, intertidal reef pool, (leg. Coppejans, 12.vii.1987, HEC 6760); Shimoni, (leg. Coppejans, 10.iii.1988, HEC 7318); Tiwi, (leg. Coppejans, 13.vii.1987, HEC 6784); Vipingo, 35 km N of Mombasa, (leg. Coppejans, 29.vii.1989, HEC 8155); **Seychelles.** L'Islette, Mahé, intertidal rock pools, (leg. Coppejans, Kooistra & Audiffred, 10.i.1993, SEY 811); Pointe du Sel, Ile Sourie, Mahé, reef pools, (leg. Coppejans, Kooistra & Audiffred, 10.xii.1992, SEY 5); **Tanzania.** Ras Ruvula, Mnazi Bay, Mtwara area, mid to low intertidal, shallow rock pools, epilithic, (leg. Coppejans, Dargent & Bel, 21.vii.2000, HEC 12772); Tandooni, Verani, Pemba Island, mid intertidal, (leg. Coppejans & De Clerck, 24.i.1996, HEC 11472); **Zanzibar (Tanzania).** Chwaka, intertidal reef flat, epilithic, (leg. Leliaert, 18.vii.1997, FL 612); Chwaka, drift, (leg. Leliaert, 18.vii.1997, FL 610; leg. Leliaert, 30.vii.1997, FL 712; leg. Leliaert & Coppejans, 16.vii.2001, FL 958b); Chwaka, intertidal reef flat, epilithic or epiphytic on *Laurencia* sp. (leg. Leliaert, 31.vii.1997, FL 713, FL 715, FL 730; leg. Leliaert & Coppejans, 20.vii.2001, FL 994); Chwaka, intertidal seagrass bed, loose lying on sandy substratum, (leg. Leliaert & Coppejans, 18.vii.2001, FL 980); Chwaka, mid intertidal reef flat, loosely attached to the rocky substratum, (leg. Leliaert & Coppejans, 17.vii.2001, FL 967b); Chwaka, mid intertidal seagrass beds, on coral rubble and shell fragments, (leg. Leliaert & Coppejans, 17.vii.2001, FL 959); Chwaka, mid intertidal, shallow pools, epilithic, (leg. Coppejans & Dargent, 30.vii.1997, HEC 12159; 27.viii.1994, HEC 10713); Chwaka, shallow subtidal, on coral rubble, (leg. Leliaert & Coppejans, 17.vii.2001, FL 966); Matemwe, back-reef coral pools, close to the fringing reef, epiphytic on *Gelidiella acerosa*, (leg. Coppejans & Dargent, 25.vii.1997, HEC 12042); Matemwe, intertidal reef flat, epilithic in pools, (leg. Leliaert, 21.vii.1997, FL 652); Nungwi, intertidal reef flat, epilithic, (leg. Leliaert, 20.vii.1997, FL 641, FL 642; leg. Leliaert & Coppejans, 21.vii.2001, FL 1010); Nungwi, intertidal rock pools, epilithic on horizontal surface, (leg. Leliaert, 25.vii.1997, FL 695); Nungwi, low intertidal, epilithic, (leg. Coppejans & De Clerck, 23.viii.1994, HEC 10583a, b, c); Paje, reef pools behind fringing reef, (leg. Leliaert, 23.vii.1997, FL 684); Pongwe, infralittoral fringe, shallow rock pool, epilithic, (leg. Coppejans & Schils, 26.vi.1999, HEC 12594); Pongwe, intertidal reef flat, epilithic, (leg. Leliaert, 19.vii.1997, FL 618 and HEC 11892); Pongwe, intertidal reef flat, epiphytic on various macroalgae or epilithic on coral boulders, (leg. Leliaert, 19.vii.1997, FL 617); Uroa, infralittoral fringe, shallow pool, epilithic, (leg. Coppejans, 2.viii.1993, HEC 9819); Uroa, mid intertidal reef flat, (leg. Leliaert & Coppejans, 19.vii.2001, FL 987, FL 985); **Pacific Ocean: Australia.** Cooktown, Queensland, (unknown collector s.n., 1879, MEL 666892); **Indonesia.** harbour of Taipabu, NW coast Binongko, Tukang Besi Islands, Banda Sea, (leg. Coppejans & Prud'homme van Reine, 10.ix.1984, Snellius-II 10329); Selat Linta, E of Komodo Island, (leg. Coppejans & Prud'homme van Reine, 18.ix.1984, Snellius-II 10843); **Papua New Guinea.** between Sinub and Wongat Island, Madang Province, (leg. Coppejans & Prud'homme van Reine, 18.vii.1990, Copp & PvR 13237); NW point of Christmas Bay, Bagabag, Madang Province, (leg. Coppejans & Prud'homme van Reine, 2.viii.1990, Copp & PvR 13508); **The Philippines.** Mactan Island, (leg. Leliaert & Liao, 6.viii.1998, PH 620b); Santa Cruz-Island (large), Zamboanga City, Mindanao, intertidal, epiphytic on seagrass stems, (leg. Leliaert & Liao, 23.viii.1998, PH 467).

2. composita morphotype: **Indian Ocean: Kenya.** Bamburi Bay, Mombasa, (leg. Coppejans, 17.ix.1990, HEC 8604); Casuarina Point, Malindi, (leg. Coppejans, 21.iii.1988, HEC 7422); Chale Island, Gazi, mid intertidal, on sand covered, horizontal substratum, (leg. Coppejans *et al.*, 14.ix.1992, HEC 9472); Mc Kenzie Point, Mombasa, (leg. Coppejans, vi.1985, HEC 5687); Nyali Beach reef, Mombasa, infralittoral fringe, (leg. Coppejans, 12.vii.1987, HEC 6766); Tiwi, (leg. Coppejans, 13.vii.1987, HEC 6785, HEC 6823); **Madagascar.** Grand Récif, Tuléar, reef platform and pools; partly emerged at good low tide; rather rare, (leg. Coppejans *et al.*, 14.viii.2002, HEC 14965); Plage de Monseigneur, Fort Dauphin, horizontal rock substratum of shallow pool (5–10 cm) low intertidal, (leg. Coppejans *et al.*, 31.viii.2002, HEC 15225); **Mauritius.** unknown locality, (leg. Telfair s.n., BM: lectotype and isolectotypes of *Conferva composita*); **Réunion.** St. Gilles les Bains, (leg. Dargent, 17.iv.1998, HOD RUN 98-17); **Tanzania.** Dar es Salaam, (leg. Danke s.n., B 09452); Mbudiya Island, Kunduchi, mid intertidal pools, epilithic on vertical walls, (leg. De Clerck, 11.vii.1997, ODC 665); Misali Island, W of Pemba Island, on horizontal rock substratum, mid intertidal, locally very abundant, (leg. Coppejans & De Clerck, 21.i.1996, HEC 11358); **Zanzibar (Tanzania).** Chwaka, high intertidal, epilithic on sand covered substratum, (leg. Leliaert, 31.vii.1997, FL 722); Matemwe, high intertidal reef flat, on wooden poles, (leg. Leliaert & Coppejans, 16.vii.2001, FL 950); Matemwe, intertidal pools, epilithic, (leg. Leliaert, 21.vii.1997, FL 662); Matemwe, intertidal reef flat, epiphytic on *Laurencia* sp., (leg. Leliaert & Coppejans, 14.vii.2001, FL 926, FL 927); Matemwe, mid to high intertidal reef flat, epilithic on shell-fragments and coral rubble, very loosely attached, (leg. Leliaert & Coppejans, 14.vii.2001, FL 923); Nungwi, fringing reef, epilithic or epiphytic, (leg. Leliaert, 25.vii.1997, FL 694); Nungwi, high intertidal reef pools, epilithic or epiphytic, (leg. Leliaert, 26.vii.1997, FL 702); Nungwi, infralittoral fringe, seaward side of fringing reef, epilithic or epiphytic, (leg. Leliaert & Coppejans, 21.vii.2001, FL 1007); Paje, fringing reef, epilithic, loosely attached, (leg. Leliaert, 23.vii.1997, FL 679); Pongwe, intertidal reef flat, loose lying, (leg. Leliaert, 19.vii.1997, FL 621); Pongwe, very loosely attached on sand covered substratum, (leg. Leliaert, 19.vii.1997, FL 622); Uroa, mid intertidal reef flat, loosely attached to coral rubble, (leg. Leliaert & Coppejans, 19.vii.2001, FL 986); **Pacific Ocean: Hawaii.** Waianae, Oahu, (leg. Tilden, American Algae s.n., M: lectotype of *Boodlea composita* forma *contracta*; leg. Tilden 539, 17.iii.1900, NY and PC: syntypes of *B. composita* forma *contracta*); **The Philippines.** Punta Engano, Mactan Island, Cebu, high intertidal reef flat, epilithic, (leg. Leliaert & Liao, 5.viii.1998, PH 625); **Vietnam.** Vicinity of the "Institut Oceanographique de Nhatrang", on coral rubble, (leg. Dawson 11119, 27.i.1953, B 09439).

3. delicatula morphotype: **Atlantic Ocean: Cameroon.** unknown locality, (leg. Ledermann 262, B A79, A80, A81); **Caribbean Sea: Aruba.** Lago, shallow subtidal, epilithic, (leg. Vroman Ar 20-10, L 8150); Savaneta, (leg. Vroman Ar 5-2, 5.iv.1958, L 8175); **Bonaire.** lagoon, infralittoral fringe, mangrove, (leg. Vroman Bo 22-3, 26.iii.1958, L 8170); **Puerto Rico.** W coast of Punta Arenas, Mayaguez, (leg. Diaz-Piferrer s.n., 21.iii.1967, L 989 079 201); **Indian Ocean: Kenya.** Gazi, tide channel, (leg. Coppejans, 9.viii.1989, HEC 8302a, b); Msambweni, ca. 55 km S of Mombasa, infralittoral fringe, reef pool, epilithic on the horizontal substratum, (leg. Coppejans *et al.*, 16.ix.1992, HEC 9493); **Pacific Ocean: Indonesia.** Bari Flores, (leg. Weber-van Bosse 1009, xii.1888, L 937 279 460); Borneo bank, (leg. Weber-van Bosse, Siboga expedition s.n., vi.1899, L 937 279 470); Java, (leg. Weber-van Bosse s.n., M); Kamaragi Bay, Tanah Djampeah, subtidal, 30 m depth, (leg. Weber-van Bosse, Siboga expedition s.n., 4.v.1899, L 937 279 320); Sailoes-besar, (leg. Weber-van Bosse, Siboga expedition s.n., L 937 279 306); SE side of Pearl bank, Sulu Archipelago, (leg. Weber-van Bosse, Siboga expedition 371, 27.vi.1999, L 937 279 315); Sunda Island, (leg. Weber-van Bosse s.n., M); unknown locality, (leg. Weber-van Bosse s.n., 1888, L 937 279 298); **New Caledonia.** Wagap, (unknown collector 2111, 1863, L 937 183 109: holotype of *Struvea delicatula*); **Papua New Guinea.** Boisa, Madang Province, (leg. Coppejans, 7.vii.1988, HEC 7748); **The Philippines.** Lumangcapan, Enrique Villanueva, Siquijor, shallow subtidal coral boulders, epiphytic on *Caulerpa racemosa*, (leg. Leliaert & Liao, 7.viii.1998, PH 21); Pitogo, Zamboanga City, Mindanao, shallow subtidal, epiphytic on *Hypnea* sp., (leg. Leliaert & Liao, 22.viii.1998, PH 451).

4. kenyensis morphotype: **Indian Ocean: Kenya.** Iwatine Bay, N of Mombasa, mid intertidal rock pool, epilithic, (leg. Coppejans, 10.ix.1992, HEC 9404); Mwamba Beach, Mombasa, mid to low intertidal rock pools, epilithic, (leg. Coppejans, 5.ix.1991, HEC 8669a: holotype); Vipingo, 35 km N of Mombasa, (leg. Coppejans, 29.vii.1989, HEC 8187).

5. montagnei morphotype: **Indian Ocean: Zanzibar (Tanzania).** Chwaka Bay, intertidal flat, loose lying, (leg. Leliaert, 18.vii.1997, FL 611, FL 614); Chwaka, intertidal seagrass bed, epizoic on sponge, (leg. Leliaert & Coppejans, 18.vii.2001, FL 978); Chwaka, intertidal seagrass beds, loosely attached to rocky substratum, (leg. Leliaert & Coppejans, 17.vii.2001, FL 961); Chwaka, mangrove channel and intertidal flat, loose-lying, (leg. Coppejans & Schils, 27.vi.1999, HEC 12610); Kiwengwa, drift, (leg. Leliaert, 22.vii.1997, FL 663); Matemwe, mid intertidal reef flat, epilithic on shaded wall of a small rock pool, (leg. Leliaert & Coppejans, 16.vii.2001, FL 958a); **Pacific Ocean: Indonesia.** unknown locality, (leg. Weber-van Bosse, Siboga expedition s.n., 1899, L 938 046 399); E Tarupa Kecil, NE Taka Bone Rate, (leg. Coppejans & Prud'homme van Reine, 26.ix.1984, Snellius-II 11278); Selat Linta, E of Komodo Island, (leg. Coppejans & Prud'homme van Reine, 18.ix.1984, Snellius-II 10842); **Papua New Guinea.** Boisa, Madang Province, (leg. Coppejans, 7.vii.1988, HEC 7735); Durangit reef, Hansa Bay, Madang Province, (leg. Coppejans, 17.vii.1988, HEC 7847); Gumbi Bay, Madang Province, (leg. Coppejans, 25.vii.1988, HEC 7943); Kranket Island, Madang Province, (leg. Coppejans, 7.viii.1988, HEC 8078; leg. Coppejans & Prud'homme van Reine, 13.vii.1990, Copp & PvR 13133, Copp & PvR 13134); Laing Island (Bogia), Hansa Bay, Madang Province, (leg. Coppejans, vi.1980, HEC 4431; viii.1986, HEC 6451; 22.viii.1986, HEC 6581; 29.vi.1988, HEC 7638; 5.vii.1988, HEC 7690); Megiar Harbour, Madang Province, (leg. Coppejans, 18.viii.1986, HEC 6535); Motupore Island, Port Moresby area, (leg. Coppejans, vi.1986, HEC 6347); N of Pig (Tab) Island, Madang Province, (leg. Coppejans & Prud'homme van Reine, 5.viii.1990, Copp & PvR 13588); NW point of Christmas Bay, Bagabag, Madang Province, (leg. Coppejans & Prud'homme van Reine, 2.viii.1990, Copp & PvR 13509b); Sarang Harbour, Madang Province, (leg. Coppejans & Prud'homme van Reine, 23.vii.1990, Copp & PvR 13351); **Solomon Islands.** Guadalcanal, Komimbo, (leg. Womersley & Bailey 239, 14.viii.1965,

L 211504); **The Philippines**. Mactan Island, Cebu Province, intertidal, epilithic, (leg. Leliaert & Liao, 6.viii.1998, PH 646); Mactan Island, Cebu Province, (leg. Coppejans, 19.iv.1998, HEC 12262); Malibago Bluewater Resort, Mactan Island, Cebu, intertidal reef flat, epilithic or loose lying on coral rubble, (leg. Leliaert & Liao, 27.viii.1998, PH 565, PH 572); Santa Cruz Island (small), Zamboanga City, Mindanao, intertidal, epilithic, (leg. Leliaert & Liao, 24.viii.1998, PH 517); Simunu, Tawi, (leg. Dargent & Bel, 19.viii.1999, HOD PH 99-156); **Tonga**. unknown locality, (leg. Harvey s.n., BM); Lifuka, Ha'apai group, (leg. Harvey, Australian Algae 89, 1857, BM: holotype of *Microdictyon montagnei*; PC: isotype).

6. siamensis morphotype: **Caribbean Sea: St. Thomas**. unknown locality, (leg. Børgesen 1068, 1905–1906, L 936 181 459); **Indian Ocean: India**. Dwarka, (leg. Børgesen 5426, 1927–1928, C: lectotype of *Boodlea siamensis* forma *robusta*; Børgesen 5412, 5457 & 5561: syntypes); Port Okha, (leg. Børgesen 5561, 1927–1928, C: syntype of *B. siamensis* forma *robusta*); **Kenya**. between English Point & Mc Kenzie Point, Mombasa, (leg. Coppejans, i.1986, HEC 5836); Chale Island, Gazi, (leg. Coppejans, 9.viii.1989, HEC 8316); Gazi, mangrove creek, (leg. Coppejans, i.1986, HEC 6075; 8.vii.1987, HEC 6736); Iwatine Bay, Mombasa, high intertidal, (leg. Coppejans *et al.*, 11.ix.1992, HEC 9397); Kanamai, Mombasa, (leg. Coppejans, vi.1985, HEC 5625); Kikambala, (leg. Napper 439, 5.i.1956, B 09440); Kikari, SE end of Manda Island, (leg. Greenway & Rawlins 8884, 12.ii.1956, B 09444); Kiu Island lagoon, Lamu District, on dead coral, (leg. Greenway & Rawlins 9379, 23.x.1957, B 33891); Mwamba Beach, Mombasa, mid intertidal, on sand covered coral, (leg. Coppejans, 5.ix.1991, HEC 8693); Nyali Beach, Mombasa, (leg. Coppejans, vi.1985, HEC 5659); Osine, Lamu District, shallow bay, wave exposed, (leg. Greenway & Rawlins 9321, 9.x.1957, B 09441); Ras Wasin, Shimoni, (leg. Coppejans, 8.iii.1988, HEC 7266); Silversands, Malindi, (leg. van Someren E.A.H. 10.485, i.1956, B 09443); Vipingo, 35 km N of Mombasa, (leg. Coppejans, 29.vii.1989, HEC 8189); **Madagascar**. Tamatave Reef, (leg. Voeltzkow s.n., 1904, B A449); **Mauritius**. unknown locality, (leg. Vaughan 290, B 09448); unknown locality, (leg. Voeltzkow s.n., xii.1904, B A469); **Oman**. Daynayah, Ashai, (leg. Jupp, 13.i.1994, FL 875, FL 876, FL 877, FL 878); **Réunion**. St. Gilles les Bains, (leg. Dargent, 19.iv.1998, HOD RUN 98-35); Trois Bassins, (leg. Dargent, 22.iv.1998, HOD RUN 98-45); **Seychelles**. Alphonse Atoll, drifting outside the atoll, (leg. Coppejans, Kooistra & Audiffred, 4.i.1993, SEY 729); Anse Forbans, Mahé, lagoon section, sandy reef flat, (leg. Coppejans, Kooistra & Audiffred, 10.xii.1992, SEY 1); Mare Anglaise, Mahé, rock pool, (leg. Coppejans, Kooistra & Audiffred, 12.xii.1992, SEY 52); **South Africa**. Sodwana Bay, KwaZulu-Natal, (leg. Coppejans *et al.*, 8.viii.1999, KZN 237, leg. De Clerck & Cocquyt, KZN 1737); **Tanzania**. Ras Ruvula, Mnazi Bay, Mtwara area, low intertidal, (leg. Coppejans, Dargent & Bel, 21.vii.2000, HEC 12771); Ras Ruvula, Mnazi Bay, Mtwara area, subtidal, 15 m depth, loosely attached on coral, (leg. Coppejans, Dargent & Bel, 28.vii.2000, HEC 12938); Fungu Achungu, Mnazi Bay, Mtwara area, subtidal reef slope, 6 m depth, on coral rubble on sand, (leg. Coppejans, Dargent & Bel, 11.viii.2000, HEC 14222); Chole Bay in front of Mafia Island Lodge, Mafia Island, low intertidal, epilithic in seagrass bed, (leg. Coppejans & De Clerck, 8.i.1996, HEC 11124); Shangani Reef, N of Chole Bay, Mafia Island, subtidal, 25 m depth, on coral fragments on sand, (leg. Coppejans & De Clerck, 14.i.1996, HEC 11256); **Zanzibar (Tanzania)**; Chwaka, intertidal reef flat, epilithic or loosely attached to the substratum, (leg. Leliaert, 18.vii.1997, FL 613; 31.vii.1997, FL 714); Chwaka, intertidal seagrass bed, epilithic on coral rubble, (leg. Leliaert & Coppejans, 18.vii.2001, FL 977); Chwaka, intertidal seagrass bed, epiphytic on *Laurencia* sp., (leg. Leliaert & Coppejans, 18.vii.2001, FL 979); Chwaka, mid intertidal reef flat, loosely attached to the rocky substratum, (leg. Leliaert & Coppejans, 17.vii.2001, FL 968); Chwaka, shallow subtidal seagrass beds, 1–2 m depth, epilithic, loosely attached, (leg. Leliaert & Coppejans, 17.vii.2001, FL 964); Matemwe, sandy reef pools, epilithic, (leg. Leliaert, 21.vii.1997, FL 649, FL 651); Nungwi, intertidal reef flat, epilithic on sand covered substratum, (leg. Leliaert, 20.vii.1997, FL 643; leg. Leliaert & Coppejans, 21.vii.2001, FL 1008); Nungwi, mid intertidal reef flat, epilithic, loosely attached to the substratum, (leg. Leliaert & Coppejans, 21.vii.2001, FL 999); Nungwi, mid intertidal, epilithic or epiphytic, (leg. Leliaert, 25.vii.1997, FL 696); Uroa, infralittoral fringe, epiphytic on *Amphiroa* sp. and *Halimeda opuntia*, (leg. Coppejans, 24.vii.1993, HEC 9677); **Yemen**. Dihamd-Qadeb, N-coast of Socotra, shallow subtidal, 2 m depth, epilithic on sand covered rock, (leg. Leliaert, 26.ii.1999, SOC 226); E of Rhiy di Howlaf, N Socotra, shallow subtidal, 3 m depth, on coral rubble, (leg. Leliaert, 19.ii.1999, SOC 112); Rhiy di-Adhoh, NE Socotra, (leg. Leliaert, 24.ii.1999, SOC 204); Siqirah, NE Socotra, shallow subtidal, 3 m depth, epilithic on dead coral, (leg. Leliaert, 24.ii.1999, SOC 201); Socotra, (leg. Leliaert, SOC 254); **Pacific Ocean: Cook Island**. Mangaia, (leg. Gill s.n., BM); **Hawaii**. Nanakuli, (leg. Papenfuss 10787, 23.xi.1941, S); **Indonesia**. Ambon, (leg. Weber-van Bosse, Siboga expedition s.n., 16.xi.1899, L 936 181 314); Bira, (leg. Weber-van Bosse, Siboga expedition s.n., L 936 181 328); Buru Island, Moluccas, (leg. Weber-van Bosse, Siboga Expedition, Herbarium Reinbold, M: lectotype of *Boodlea paradoxa*); E Tarupa Kecil, NE Taka Bone Rate, (leg. Coppejans & Prud'homme van Reine, 26.ix.1984, Snellius-II 11279); Elat, Groot-Key rif (stat. 261), (leg. Weber-van Bosse, Siboga expedition s.n., 16.xii.1899, L 936 181 326); harbour of Taipabu, NW coast Binongko, Tukang Besi Islands, Banda Sea, (leg. Coppejans & Prud'homme van Reine, 10.ix.1984, Snellius-II 10330, Snellius-II 10351); Insula Edam, Java, (leg. Möller s.n., 4.ix.1897, B 09456); Moearas reef, (leg. Weber-van Bosse, Siboga expedition s.n., 22.vi.1899, L 936 181 313); Pulu-Karang, S Aru, (leg. Arnoldi s.n., 2.v.1909, L 940 118 146); S Tomea, Tukang Besi Islands, Banda Sea, (leg. Coppejans & Prud'homme van Reine, 7.ix.1984, Snellius-II 11165); Sikka, Flores, (leg. Weber-van Bosse 1091, xii.1888, L 936 181 397); unknown locality, (leg. Weber-van Bosse, Siboga expedition s.n., M); unknown locality, (leg. Weber-van Bosse, Siboga expedition s.n., xi.1899, L 936 181 332); W Kudingareng Keke Island, SW Sulawesi, shallow subtidal, 1 m depth, (leg. Verheij 0907, 20.xii.1989, L 992 261 222); **Japan**. unknown locality, (leg. Moseley, Challenger expedition s.n., BM); Hachijyo Island, Sokodo, intertidal pools, epilithic, (leg. Tanaka 79, 12.v.1990, L 993 356 415); Hachijyo Island, Sokodo, intertidal pools, epilithic, (leg. Tanaka s.n., 12.v.1999, B 36273); Hoshizuna-no-hana, Iriomote Island, shallow subtidal, lagoon, (leg. Coppejans, 15.ix.1993, HEC 10075); O-shima, Wakayama Prefecture, S-coast of Japan, (leg. Moseley s.n., Challenger Expedition s.n., Herb. Dickie, BM: holotype of *Cladophora coacta*); Sesoko, Okinawa, subtidal, (leg. Coppejans, 7.ix.1993, HEC 9982); Sunosaki (Boshu),

low intertidal, on sandy rocks, (leg. Okamura 99, vi.1899, BM); Sunosaki (Boshu), low intertidal, on sandy rocks, (leg. Okamura 99, vi.1899, L 937 072 241); Sunosaki, Boshu, low intertidal, on sandy rocks, (leg. Okamura s.n., vi.1899, M); Sunozaki, Boshu, (unknown collector s.n., M); Tateyama, (leg. Higashi s.n., viii.1932, B 09434); Tateyama, (leg. Higashi s.n., viii.1932, M); **Papua New Guinea**. Gumbi Bay, Madang Province, (leg. Coppejans, 25.vii.1988, HEC 7934); Hatzfeldhafen, Madang Province, (leg. Coppejans, 21.vii.1988, HEC 7903); Horse Shoe Reef, Port Moresby area, shallow subtidal reef platform, 2 m depth, (leg. Coppejans & De Clerck, 30.vii.1994, HEC 10340); island N of Demasa Island, Madang Province, (leg. Coppejans & Prud'homme van Reine, 15.vii.1990, Copp & PvR 13170); Laing Island, Madang Province, (leg. Coppejans, 10.vii.1986, HEC 6674); Loloata Island, Port Moresby area, shallow subtidal, 5 m depth, (leg. De Clerck & Coppejans, 28.vii.1994, ODC 250); Motupore Island, Port Moresby area, infralittoral fringe, lagoon, on horizontal substratum, (leg. Coppejans & De Clerck, 21.vii.1994, HEC 10203); Motupore Island, Port Moresby area, inner slope of the fringing reef, (leg. Coppejans, vi.1986, HEC 6339); NW point of Christmas Bay, Bagabag, Madang Province, (leg. Coppejans & Prud'homme van Reine, 2.viii.1990, Copp & PvR 13509a); Ruo Island, Madang Province, (leg. Coppejans & Prud'homme van Reine, 19.vii.1990, Copp & PvR 13262); SW of Wangat Island, Madang Province, (leg. Coppejans & Prud'homme van Reine, 14.vii.1990, Copp & PvR 13157); W of Malamal Island, Madang Province, (leg. Coppejans, 7.viii.1988, HEC 8067); **Philippines**. Philippines, (unknown collector s.n., M); **Samoa**. unknown locality, (leg. Reichinger s.n., B 09454, B 09455); **Tahiti**. unknown locality, (leg. Tilden 105, x.1909, M: lectotype of *Boodlea composita* f. *irregularis*; B 09435, B 09436, B 09437, B 09438: isolectotypes); Papeivi Pass, free floating, (leg. Setchell & Parks 5214, 24.vi.1922, UC 261241, L 936 073 147); **Thailand**. Ko Kahdat, Ko Chang Archipelago, (leg. Reinbold s.n., Danish Expedition to Siam, Herb. Reinbold, M: holotype of *Boodlea siamensis*); **The Philippines**. Cangalwang, Siquijor, intertidal reef flat, epiphytic on seagrasses and macro-algae, (leg. Leliaert & Liao, 8.viii.1998, PH 85); Caw-Oy, Olango Island, Cebu, intertidal, epilithic, (leg. Leliaert & Liao, 13.viii.1998, PH 219); Karagasan, Zamboanga City, Mindanao, infralittoral fringe, on *Kappaphycus monolines*, (leg. Leliaert & Liao, 25.viii.1998, PH 547); Lumangcapan, Enrique Villanueva Siquijor, high intertidal, sandy reef flat, epilithic, loosely attached to the substratum, (leg. Leliaert & Liao, 7.viii.1998, PH 7, PH 47); Mactan Island, intertidal, epilithic, (leg. Leliaert & Liao, 6.viii.1998, PH 648); Marigondon, Lapu Lapu City, Mactan Island, Cebu, intertidal, epiphytic on various macro-algae, (leg. Leliaert & Liao, 12.viii.1998, PH 175); Tolingon, Isabel, Leyte Island, epiphytic or epilithic, (leg. Leliaert & Liao, 20.viii.1998, PH 368); **Tonga**. Tongatapu, (leg. Graeffe 1717 & 1717b, S); **Vietnam**. Vicinity of the "Institut Oceanographique de Nhatrang", on coral rubble, (leg. Dawson 11119, 27.i.1953, L 961 176 478); **Red sea: Egypt**. Dahab, (leg. De Clerck, 24.v.1997, ODC 571).

7. *struveopsis* morphotype: **Indian Ocean: Tanzania**. Kiwengwa, Zanzibar, fringing reef, epilithic, (leg. Leliaert, 22.vii.1997, FL 677); Mbudya Island, Kunduchi, low intertidal pools, on vertical walls, (leg. Coppejans & De Clerck, 18.i.1996, HEC 11334); Mbudya Island, west coast, High intertidal, shaded rock pool, epilithic on horizontal to vertical substratum, (leg. Leliaert & Coppejans, 11.vii.2001, FL 916); **Thailand**. Nai Yang, Koh Phuket, growing on sandstone/limestone slabs, mid-littoral, (leg. Hansen, Egerod no. LE 72-7, x.1972, C: isotype of *Pseudostruvea siamensis*); Takuapa, upper littoral, epilithic on rock, (leg. Egerod LE 71-2-26, 9.iv.1971, C: paratype of *P. siamensis*).