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APPENDIX: New Taxa Noted after Completion of MS

The following taxa of rugose and tabulate corals, which came to the author's notice after the manuscript had gone to press, are listed in alphabetical order. Names considered valid are in bold face type; those considered invalid are in italic. Works not included in the appendix reference section are in the main References.

Acdalina LELESHUS & OSPANOVA, 1979b, p. 20 [**A. mutata*; OD; †414-2, UpG, Dushanbe; Ashgill., low. Archalyksk beds, Shakhriomon Pass, W. Zeravshan Ra.]. *U.Ord.(Ashgill.),* Asia(Tadzhik.). Subclass Tabulata, order Heliolitida, suborder Heliolitina, superfamily Proporicae, family Proporidae.

Acmoheliophyllum TSIN, 1962, work not traced, name quoted in WANG, 1978, p. 114 [type, *A. bellum*, OD; †not traced; L.Carb., China, Guizhou]. Add to synonymy of *Palastraea* MCCOY, subclass Rugosa, order Stauriida, suborder Aulophyllina, family Palaeosmiliidae.

Antheriastraea WANG, 1978, p. 141 [type, *A. floriformis,* OD; †Gcr 177, 178, GB, Guiyang; U.Carb., China, Dayandong, Longjie, Yunnan]. Questionably a synonym of *Ivanovia* DOBROLYUBOVA, subclass Rugosa, order Stauriida, suborder Lonsdaleiina, family Petalaxidae.

Atopophyllum ZHAO & WANG in WANG, 1978, p. 179 [type, *A. shiqianense,* OD; †Gcr 1201, 1202, GB, Guiyang; U.Perm., China, Wuguxi, Shiqian, Guizhou]. Add to synonymy of *Ipciphyllum* HUDSON, subclass Rugosa, order Stauriida, suborder Lonsdaleiina, family Waagenophyllidae, subfamily Waagenophyllinae.

Aulostrotion NAKAI, 1980, p. 140 [**A. yokokuraense*; OD; †R30420, UH, Sapporo; Visean, 600 m. NW. of Buntoku, Ochi-cho, Takaoka-gun, Kochi Prefect.]. *L.Carb.(up.Visean),* Asia(Japan). Subclass Rugosa, order Stauriida, suborder Lithostrotionina, family Lithostrotionidae.

Batangophyllum WU & ZHANG, 1979, p. 32 [**B. sinense*; OD; †47307, 47308, IGP, Nanking; latest L.Carb., Xuchika F., Batang co., Sichuan (Szechuan)] [?=*Symplectophyllum* HILL, which see]. Subclass Rugosa, order Stauriida, suborder Aulophyllina, ?family Aphrophyllidae.

Cavilasma HE, 1978, p. 102 [**C. daozhenense*; M; †Scr 509, IGMR, Chengdu; L.Sil., Daozhen, Guizhou (Kweichow)]. Solitary; major septa withdrawn somewhat irregularly from axis and greatly thickened in early stages, thickening decreasing mainly at periphery in later stages; minor septa very short; tabulae present where septa are not in contact; dissepiments absent. [Diagnosis tentative, from illustrations.] *L.Sil.,* Asia(China). Subclass Rugosa, order Stauriida, suborder Streptelasmatina, family Streptelasmatidae, ?subfamily Dinophyllinae.

Changjianggouphyllum FAN, 1978, p. 166 [**C. hexagonale*; OD; †Scr 202, IGMR, Chengdu; L.Perm., Changjianggou, Shangsi, Guangyuan, Sichuan (Szechwan)]. Cerioid; major and minor septa thin and discontinuous in wide dissepimentarium, major septa extending irregularly almost to axial region; tabulae thin, tabular floors slightly sagging; ?(no axial structure). [Diagnosis tentative, from illustrations.] *L.Perm.,* Asia(China). Subclass Rugosa, order Stauriida, suborder Lonsdaleiina, ?family Petalaxidae.

Chuanbeiphyllum HE, 1978, p. 138 [type, *C. hongyansiense,* OD; †Scr 626, IGMR, Chengdu; U.Dev., China, Hongyansi, Guanyuan, Sichuan (Szechwan)]. Questionably a synonym of *Phillipsastrea* D'ORBIGNY, subclass Rugosa, order Stauriida, suborder Columnariina, family Phillipsastreidae.

Clisiophyllum (Paraclisiophyllum) WANG, 1978, p. 146 [type, *C. (P.) yashuiense,* OD; †Gcr 190, GB, Guiyang; L.Carb., China, Yashui, Huishui co., Guizhou]. Add to synonymy of *Clisiophyllum* DANA, subclass Rugosa, order Stauriida, suborder Aulophyllina, subfamily Clisiophyllinae.

Crassicyclus SOTO, 1978, p. 426 [**C. densiseptatus*; OD; †11718, DPO, Oviedo; low. Givet., La Vecilla, Léon, Spain]. Solitary, discoid, small; epithecate base with central apex; calice with shallow axial depression and cardinal fossula; septa coarse, arranged in quadrants, distal edges sharp or spinose, minor septa ?contratingent. *M.Dev. (Givet.),* Eu.(Spain). Subclass Rugosa, order

Stauriida, suborder Metriophyllina, family Hadrophyllidae.

Cystomichelinia (Protocystomichelinia) YANG, 1974, work not traced, quoted in YANG, 1978, p. 196 [type, *C. (P.) stenocystosa,* ?OD; †Gct 40, 41, GB, Guiyang; L.Carb., China, Pingzi, Chaizhong, Weibao Shan, Yunnan]. Questionably a synonym of *Michelinia* DE KONINCK, subclass Tabulata, order Favositida, suborder Favositina, superfamily Favositicae, family Micheliniinae, subfamily Micheliniinae.

Debnikiella ROZKOWSKA, 1979, p. 25 [**D. formosa*; OD; †TcI/15, University Adam Mickiewitz, Poznan; Frasn., stratum with *Phillipsastrea,* Dębnik, Żarnówczany Dól, Silesia-Cracow upland]. "Large solitary corallite. Septa numerous, radially arranged with fan-shaped trabeculae of the rhipidacanthine type; dissepimentarium everted, broad, without horseshoe dissepiments; tabulae incomplete, tabularium distally concave." Subclass Rugosa, order Stauriida, suborder Columnariina, family Disphyllidae.

Dimelasma SYTOVA, 1979b, p. 167 [**D. gratum*; OD; †76, coll. 11581, TsGM, Leningrad; U.Ord., Mangazeysk horizon, up. Baksan beds, R. Stolbovaya, Sib. Platf.). Solitary, small to medium-sized and conical, almost erect, with deep, funnel-shaped calice; septa thick with clear median line; with fossula and axial complex; tabulae convex. Subclass Rugosa, order Stauriida, suborder Streptelasmatina, family Streptelasmatidae.

Entelophyllia HE, 1978, p. 111 [**E. dangduogouensis*; OD; †Scr 536, IGMR, Chengdu; U.Sil., Dangduogou, Yiwa, Gansu (Kansu)]. Solitary; septa numerous, radially arranged, major somewhat withdrawn from axis, minor long; tabularium wide, tabular floors flat with downturned edges; dissepiments normal-concentric. [Diagnosis tentative, from illustrations.] *U.Sil.,* Asia(China). Subclass Rugosa, order Stauriida, suborder Arachnophyllina, family Entelophyllidae.

Favosichaetetes YANG, 1978, p. 225 [**F. multiporosus*; OD; †Gct 175, 176, GB, Guiyang; L. Carb., Huishui, Guizhou (Kweichow)]. Cerioid to pseudomeandroid; side walls with large, oval pores; adaxial increase mainly bipartite. [Diagnosis tentative, from illustrations.] *L.Carb.,* Asia (China). Name genus of Favosichaetetidae YANG, 1978, see this appendix.

Favosichaetetidae YANG, 1978, p. 225. Corallites very slender; side walls with large, oval pores; tabulae very thin; increase bi- to quadripartite. [Diagnosis tentative, from illustrations.] *L.Carb.* Subclass Tabulata, order Chaetetida.

Fedorowskicyathus ROZKOWSKA, 1979, p. 36 [**F. similis*; OD; †TcI/38, University Adam Mickiewitz, Poznan; Frasn., *Palmatolepis gigas* Zone, Kowala II road cut, Holy Cross Mts., Pol.]. "Solitary corallites with two orders of septa in the lumen; major septa twisted, commonly reaching the corallite axis; minor septa enter the tabularium; dissepiments elongated, flattened, axially inclined; tabularium domed, tabulae arranged in systems." Subclass Rugosa, family uncertain.

Gaynaphyllum PEDDER, 1980, p. 608 [**Xystriphyllum hyperbolicum* CRICKMAY, 1960, p. 11; OD; †27037, PRI, Ithaca; up. Eifel, "Lower beds of the *verrilli* Zone," Gayma R. 2.4 km. from its confluence with Mountain R., 65°24′N, 129°11′W, Mackenzie Distr.]. Like *Redstonea* but cerioid. *M.Dev.(Eifel.),* N.Am.(Mackenzie Distr.). Subclass Rugosa, order Stauriida, suborder Ptenophyllina, ?family Ptenophyllidae.

Gubbera WRIGHT, 1979, p. 135 [**G. regina*; OD; †P88212, SU, Sydney; L.Dev., Sutchers Creek F., near Mudgee, New S. Wales] [?=*Cystiphyllum (Zonophyllum)* WEDEKIND, which see]. Subclass Rugosa, order Cystiphyllida, family Cystiphyllidae.

Guizhouchaetetes YANG, 1978, p. 228 [**G. furcatus*; OD; †Gct 178, 179, GB, Guiyang; L.Carb., Miaotian, Wudang, Guiyang, Guizhou (Kweichow)]. Cerioid; side walls with large, oval pores; adaxial increase marked, bipartite, tripartite, or quadripartite. [Diagnosis tentative, from illustrations.] *L.Carb.,* Asia(China). Genus of Favosichaetetidae YANG, 1978, see this appendix.

Hemiplasmopora OSPANOVA, 1979a, p. 17 [**H. communicata*; OD; †1271, coll. 3690, UpG, Dushanbe; low. Wenlockian, bed K, Zeravshan Ra.]. Hemispherical or tumoroid; tabularia closely spaced, with aureole of 12 coenenchymal tubules, or contiguous in places; septal elements fine spines or tubercles; tabulae curved, flat, or incomplete; in early stages of growth of corallum and in "light" zones in late stages, coenenchyme may be of proporoid dissepiments; elsewhere it is of plasmoporoid tubuli with continuous but zigzag walls. *M.Sil.(Wenlock.),* Asia(Tadzhik.). Subclass Tabulata, order Heliolitida, suborder Heliolitina, superfamily Proporicae, family Plasmoporidae.

Hexaphyllia (Crepidophyllia) YÜ *et al.,* 1978, p. 51 [type, *H. (C.) flexuosa,* OD; †C65225, 65226, GC, Changchun; L.Carb., Visean, China, Yamansu, Hamai distr., E. Xingjiang (Sinkiang); inner ends of six septa conjoined in auloslike structure]. Add to synonymy of *Hexaphyllia* SHTUKENBERG, subclass Rugosa, order Heterocorallia, family Heterophylliidae.

Huishuiphyllum WANG, 1978, p. 160 [type, *H. irregulare,* OD; †Gcr 233-235, GB, Guiyang; L. Carb., China, Huishui, Guizhou]. Questionably a synonym of *Corwenia* SMITH & RYDER, subclass Rugosa, order Stauriida, suborder Aulophyllina, subfamily Dibunophyllinae.

Innaeporidae OSPANOVA, 1979b, p. 57, *nom. van.,* based on a misspelling of the generic name *Innapora* LELESHUS, 1974c, p. 99, subclass Tabulata, order Heliolitida, suborder Heliolitina, superfamily Proporicae.

Kenelasma SYTOVA, 1979b, p. 166 [**Kenophyllum holophragmoides* IVANOVSKIY, 1963, p. 25; OD; †16, coll. 41, SNIIGGIMS, Novosibirsk; U.Ord.,

low. beds Dolbor horizon, R. Stolbovaya, Sib. Platf.]. Trochoid or turbinate, large, only major septa noted; septa thick, long, reaching axis where they combine with thick tabulae to form axial complex; tabulae convex, fossula present. *U.Ord.*, Asia(Sib.Platf.). Subclass Rugosa, order Stauriida, suborder Streptelasmatina, family Streptelasmatidae.

Khangailites Bondarenko & Minzhin, 1980, p. 34 [**K. heteromorphosus*; OD; †1, coll. 3681, PIN, Moscow; Ashgill., southern foothills of Khangaysk Ra., right bank R. Buriduin-gol, 9 km. SE. Mt. Ulan-Tologoy, Mongolia]. *U.Ord.(Ashgill.)*, Asia. Subclass Tabulata, order Heliolitida, superfamily Proporicae, family Proheliolitidae.

Kowalaephyllum Rozkowska, 1979, p. 39 [**K. excelsum*; OD; †TcI/47, University Adam Mickiewitz, Poznan; Frasn., *Palmatolepis gigas* Zone, Kowala II road cut, Holy Cross Mts., Pol.]. "Chonophylloid corallites with axial bosses, and everted calicular platforms; septa in the lonsdaleoid dissepimentarium interrupted, naotic; in the inner dissepimentarium and in tabularium lamellar, rotated around the corallite axis; dissepiments elongated, flattened; tabulae incomplete, domed; lateral surfaces foliated; monacanths uni- and multiseriate." *U.Dev.(Frasn.)*, Eu.(Pol.-Belg.). Subclass Rugosa, order Stauriida, suborder Ketophyllina, ?family Endophyllidae.

Leptelasma Sytova, 1979a, p. unknown. Work not seen by author. Subclass Rugosa.

Longmenshanophyllum He, 1978, p. 150 [type, *L. ganxiense*, OD; †Scr 678, IGMR, Chengdu; L. Dev., China, Ganxi, Beichuan, Sichuan (Szechwan)]. Questionably a synonym of *Ornatophyllum* Nikolaeva, subclass Rugosa, order Stauriida, suborder Arachnophyllina, family Entelophyllidae. Adds L.Dev. to genus range.

Majiaobaphyllum Fan, 1978, p. 190 [**M. praecepsum*; OD; †?(Scr 104, IGMR, Chengdu; L.Carb., Majiaoba, Jiangyu, Sichuan [Szechwan])]. Solitary; septa long; axial structure of median plate and numerous irregular septal lamellae and conical tabellae; dissepiments lonsdaleoid; long clinotabellae present between axial structure and dissepimentarium. [Diagnosis tentative, from illustrations.] *L.Carb.(Visean)*, Asia(China). Subclass Rugosa, order Stauriida, suborder Lonsdaleiina, family Axophyllidae.

Maoyingophyllum Wang, 1978, p. 186 [type, *M. maoyingense*, OD; †Gcr 365-369, GB, Guiyang; Carb.-Perm., Maoying, Ziyun, Guizhou]. Add to synonymy of *Wentzelellites* Wu, subclass Rugosa, order Stauriida, suborder Lonsdaleiina, family Waagenophyllidae, subfamily Wentzellinae. Adds Carb. to genus range.

Melanophyllidae Fan, 1978, p. 164, ?synonym of Cyathopsidae Dybowski, subclass Rugosa, order Stauriida, suborder Caniniina.

Mesoalveolites Lin in Kim, 1978a, p. 75 [type, *Subalveolites ellipticus* Lin & Yeh, 1975, work not traced, OD; †not traced; Sil., China]. Questionably a synonym of *Subalveolites* Sokolov, subclass Tabulata, order Favositida, suborder Alveolitina, family Alveolitidae, subfamily Alveolitinae.

Metamsassia Kim, 1978a, p. 86 [**M. songpanensis*; OD; †Sct 132, IGMR, Chengdu; M.Dev., Caotanggou, Huanglong, Songpen, Sichuan (Szechwan)]. Like *Amsassia* but cerioid. [Diagnosis tentative, from illustrations.] *M.Dev.*, Asia(China). Adds *M.Dev.* to range of Cryptolichenariidae. Subclass Tabulata, order Chaetetida, ?family Cryptolichenariidae.

Metasinopora Kim, 1978b, p. 148 [type, *M. xiushanensis*, OD; †Sct 187, IGMR, Chengdu; L.Perm., China, Sechuan, Xiushan co., Rongxi, Sanbai]. Questionably a synonym of *Sinopora* Sokolov, subclass Tabulata, order Auloporida, superfamily Auloporicae, ?family Sinoporidae.

Molophyllum Onoprienko, 1979, p. 28 [**M. adapertum*; OD; †18, coll. 1408, BPI, Vladivostok; L.Carb., Tournais., bed 21b, Ushurakchanian horizon, Omolon massif, NE. USSR] [?=*Palaeosmilia* Milne-Edwards & Haime, which see]. Subclass Rugosa, order Stauriida, suborder Aulophyllina, family Palaeosmiliidae.

Navoites Leleshus & Ospanova, 1979a, p. 150 [**N. simmetricus*; OD; †6-42, coll. 1271, UpG, Dushanbe; Ashgill., Zeravshan Ra.]. Small, conical; tabularia widely separated, each with aureole of 12 tubuli similar in size to or smaller than other coenenchymal tubuli; septa 12, laminar processes commonly continuous with walls between the 12 aureolar tubuli; tabulae flat, curved, convex or seldom concave or inosculating; tubuli with continuous straight longitudinal walls and with flat or curved diaphragms. *U.Ord.(Ashgill.)*, Asia (Tadzhik.). Subclass Tabulata, order Heliolitida, suborder Heliolitina, superfamily Helioliticae, family Pseudoplasmoporidae.

Neobeichuanophyllum Fan, 1978, p. 153 [type, *Beichuanophyllum (N.) multiseptatum*, OD; †?(Scr 10, IGMR, Chengdu; L.Carb., China, Shawozi, Ganxi, Beichuan, Sichuan)]. Add to synonymy of *Cystophrentis* Yü, subclass Rugosa, order Stauriida, suborder Caniniina, family Uraliniidae.

Neokeyserlingophyllum Onoprienko, 1979, p. 39 [**N. mustum*; OD; †56, coll. 1408, BPI, Vladivostok; L.Carb., Tournais., Verkhnenadedny section, bed 9b, Omolon massif, NE. USSR] [?=*Keyserlingophyllum* Shtukenberg, which see, but septal thickening not marked]. Subclass Rugosa, order Stauriida, suborder Caniniina, family Uraliniidae.

Neosunophyllum He, 1978, p. 154, *nom. null., err. pro Neospongophylloides* Jia in Jia *et al.*, 1977, p. 158, subclass Rugosa, order Stauriida, suborder Ketophyllina, ?family Endophyllidae.

Nitkovicepora Hladil, 1980, p. 102, *nom. subst. pro Crassialveolitella* Hladil, 1974, p. 219, *non* Chi, 1966, p. 122 [**N. orbicularis*; OD; †sample 1 and thin section 12,388, Geol. Surv., Brno; up.

Givet., borehole Nítkovice-2, depth 1,702-1,707 m.; =*Crassialveolitella orbicularis* HLADIL, 1974, p. 219, *nom. nud.*]. Corallites of peripheral zone of branch thick walled and isometric, directed 75° from axis. *M.Dev.(Givet.)*, Eu.(Czech.). Subclass Tabulata, order Favositida, suborder Alveolitina, family Alveolitidae, subfamily Natalophyllinae.

Paracravenia WANG, 1978, p. 110 [type, *P. guizhouensis*, OD; †Gcr 16, 17, GB, Guiyang; U.Carb., China, Xingzhong, Guizhou]. Questionably a synonym of *Cravenia* HUDSON, subclass Rugosa, order Stauriida, suborder Plerophyllina, family Verbeekiellidae. Adds ?U.Carb. to genus range.

Paralithostrotionidae Yü, 1965, work not traced, quoted by WANG, 1978, p. 139, synonym of Petalaxidae FOMICHEV, subclass Rugosa, order Stauriida, suborder Lonsdaleiina.

Parasiphonophyllia ONOPRIENKO, 1979, p. 34 [**P. smirnovi*; OD; †24, coll. 1408, BPI, Vladivostok; L.Carb., Tournais., Verkhnenadedny section, bed 5a, Omolon massif, NE. USSR] [?=*Kusbassophyllum* DOBROLYUBOVA, which see]. Subclass Rugosa, order Stauriida, suborder Caniniina, family Cyathopsidae.

Parathysanophyllum FAN, 1978, p. 186 [**P. concavitabulatum*; OD; †?(Scr 81, IGMR, Chengdu; L.Carb., Majiaoba, Jiangyu, Sichuan)]. Like *Dorlodotia* but solitary. *L.Carb.(Visean)*, Asia (China). Subclass Rugosa, order Stauriida, suborder Lithostrotionina, family Lithostrotionidae, subfamily Thysanophyllinae.

Pentaphyllia Yü *et al.*, 1978, p. 55 [type, *P. regulare*, OD; †C65230, 65231, GC, Changchun; L. Carb., Visean, China, Yamansu, Hamai distr., Xingjiang (Sinkiang); septa five in tabularium]. Add to synonymy of *Hexaphyllia* SHTUKENBERG, subclass Rugosa, order Heterocorallia, family Heterophylliidae.

Piceaphyllum ROZKOWSKA, 1979, p. 34 [**Neostringophyllum pronini* SOSHKINA, 1951, p. 61; OD; †"sl. 9570," PIN, Moscow; Frasn., Pokrovsk, Central Urals]. "Subcylindrical corallites having peripheral ends of septa radially split, forming retrosplits; minor septa locally reduced to short ridges, replaced by angulate dissepiments; tabulae horizontal; trabeculae charactophylloid." *U.Dev.(Frasn.)*, Eu.(USSR-Pol.). Subclass Rugosa, order Stauriida, suborder Columnariina, family Disphyllidae.

Plasmoporella (Mianyangopora) KIM, 1978a, p. 93 [type, *P. (M.) mianyangensis*, OD; †Sct 146, IGMR, Chengdu; M.Sil., China, Mianyang, Chandi, ?Sichuan]. Questionably a synonym of *Innapora* LELESHUS, subclass Tabulata, order Heliolitida, suborder Heliolitina, superfamily Proporicae, family Proporidae.

Polygonaria FAN in WANG, 1978, p. 133 [**Donophyllum (Polygonaria) regularis*; OD; †?(Scr 145, IGMR, Chengdu; L.Carb., Songpan, Sichuan)] [=*Polygonalia* FAN, 1978, p. 171, *nom. nud.*]. Cerioid; major and minor septa long, major extending almost to axis; tabular floors updrawn axially to form weak axial structure lacking columella; dissepimentarium with sporadic lonsdaleoid dissepiments. [Diagnosis tentative, from illustrations.] *L.Carb.(Visean)*, Asia(China). Adds L. Carb. to subfamily Yatsengiinae range. Subclass Rugosa, order Stauriida, suborder Lithostrotionina, family Lithostrotionidae, subfamily Yatsengiinae.

Protocaninia ONOPRIENKO, 1979, p. 25 [**P. cylindrica*; OD; †10, coll. 1408, BPI, Vladivostok; Tournais., Ushurakchanian horizon, bed 14, Omolon massif]. Solitary; major septa moderately long, minor septa very short, cardinal ?(counter) septum elongate, counter ?(cardinal) septum short; tabular floors mesa-shaped, axial tabellae wide and flat, periaxial tabellae wide and declined abaxially; dissepimentarium narrow. *L.Carb.(Tournais.)*, Asia(NE.USSR). Subclass Rugosa, order Stauriida, suborder Caniniina, ?family Cyathopsidae.

Protocarcinophyllum FAN, 1978, p. 186 [**P. zongchanggouense*; OD; †?(Scr 86, IGMR, Chengdu; Visean, Zongchanggou, Jiangyu, Sichuan)]. Solitary, with lonsdaleoid dissepimentarium; major septa withdrawn from thin medial plate; tabular floors low cones, somewhat updrawn at medial plate. [Diagnosis tentative, from illustrations.] *L.Carb.(Visean)*, Asia(China). Subclass Rugosa, order Stauriida, suborder Lithostrotionina, family Lithostrotionidae, ?subfamily Thysanophyllinae.

Protocystiphyllum HE, 1978, p. 159 [type, *Cysticonophyllum crassum* GE & Yü, 1974, p. 168, OD; †22095, IGP, Nanking; L.Sil., China, Hubei]. Questionably a synonym of *Cystiphyllum* LONSDALE, subclass Rugosa, order Cystiphyllida, family Cystiphyllidae.

Pseudolaceropora KIM, 1978a, p. 37 [type, *P. daguanensis*, OD; †Sct 2, IGMR, Chengdu; M. Sil., China, Daguan, Yunnan]. Add to synonymy of *Palaeocorolites* LELESHUS, subclass Tabulata, order Sarcinulida, family Theciidae.

Rachaniephyllum ROZKOWSKA, 1979, p. 45 [**R. andreae*; OD; †1429.II.21, IG, Warsaw; Frasn., Lublin reg., borehole Rachanie IG-I, depth 1,805 m.]. "Phaceloid, laterally offsetting coralla with underdeveloped septa of two orders located on the external wall and on horizontal elements; spine-like monacanths; dissepiments elongated, flattened, deeply inclined axially; tabulae globose or plate-like, mainly concave." Subclass Rugosa, order Cystiphyllida, ?family Cystiphyllidae.

Ramiphyllum WU & ZHANG, 1979, p. 32 [**R. firmatum*; OD; †47313, IGP, Nanking; latest L. Carb., Xuchika F., Batang co., Sichuan (Szechuan)] [?=*Amygdalophyllum* DUN & BENSON, which see]. Subclass Rugosa, order Stauriida, suborder Aulophyllina, family Aulophyllidae, subfamily Amygdalophyllinae.

Redstoneainae PEDDER, 1980, p. 608. Subclass

Rugosa, order Stauriida, suborder Ptenophyllina, ?family Ptenophyllidae.

Reimanelasma SYTOVA, 1979b, p. 165 [**R. elegans*; OD; †16, coll. 11581, TsGM, Leningrad; U.Ord., Mangazeysk horizon, up. Baksan beds, R. Bolshaya Nirunda, Sib. Platf.]. Solitary, erect conical, with deep, gobletlike chalice; septa of two orders, thick in early stages, thinning in later stages, their microstructure pinnate; with fossula, broken stereozone and rare thickened tabulae, flat or weakly convex. Suborder Rugosa, order Stauriida, suborder Streptelasmatina, family Streptelasmatidae.

Schizophaulactis LAUB, 1979, p. 213 [**Cyathophyllum densiseptatum* FOERSTE, 1906, p. 314; OD; †neotype, 41944, UCGM, Cincinnati; by LAUB, 1979, p. 214; mid. Llandov., Waco bed, Brassfield F., 1/2 mi. E. of Panola, Ky.] [?=*Phaulactis* RYDER, which see]. *L.Sil.(mid.Llandov.)*, N.Am. (Ky.). Subclass Rugosa, order Stauriida, suborder Lycophyllina, family Lykophyllidae.

Sichuanastraea HE, 1978, p. 134 [type, *Billingsastraea (Sichuanastraea) crassiseptata*, OD; †Scr 623, IGMR, Chengdu; M.Dev., China, Shawozi, Ganxi, Beichuan, Sichuan]. Questionably a synonym of *Scruttonia* CHEREPNINA, subclass Rugosa, order Stauriida, suborder Columnariina, family Phillipsastreidae. Adds M.Dev. to genus range.

Smithicyathus ROZKOWSKA, 1979, p. 18 [**Phillipsastrea cincta* SMITH, 1945, p. 43; OD; †9244, GSC, Ottawa; U.Dev., 5 mi. above falls, Redknife R., NW. Terr., Can.]. "Fan-shaped trabeculae of the rhipidacanthine type supplement the Smith's (1945: 43) diagnosis." Phillipsastreid in which many of the corallites are separated by epitheca and which has very abbreviated septa, complete tabulae, and horse-shoe dissepiments. *U.Dev. (Frasn.)*, N.Am.(NW.Terr.)-Eu.(Pol.). Subclass Rugosa, order Stauriida, suborder Columnariina, family Phillipsastreidae.

Sokoloviella SYTOVA, 1979a, p. unknown [**S. delicata*; OD]. Work not seen by author. Subclass Rugosa.

Spongioalveolites IVEN, 1980, p. 151 [**Alveolites intermixtus* LECOMPTE, 1939, p. 50; OD; †IG8254, IRSN, Brussels; M.Dev., Co2d, pl. Couvin 8708]. Subclass Tabulata, order Favositida, suborder Alveolitina, family Alveolitidae.

Tabulophyllidae ONOPRIENKO, 1979, p. 6, synonym of Endophyllidae TORLEY, subclass Rugosa, order Stauriida, suborder Ketophyllina.

Tawuphyllum PEDDER, 1980, p. 602 [**Australophyllum praeclarum* CRICKMAY, 1962, p. 6; OD; †27080, PRI, Ithaca; up. Eifel., Hume F., "Houston R.," 65°24′N, 131°21′W]. Cerioid, commonly major and minor septa reduced to thin, sparse septal crests in dissepimentarium, major septa thin, straight, and not carinate in tabularium. *M.Dev. (Eifel.)*, N.Am.(Yukon Terr.). Subclass Rugosa, order Stauriida, suborder Ptenophyllina, family Spondophyllidae.

Tetradium (Paenetetradium) COPPER & MORRISON, 1978, p. 2016 [type, *Stenopora huronensis* BILLINGS, 1865, p. 185, *sensu* FOORD, 1883, p. 25, OD; †not traced; "Hudson River Formation, Cape Smyth, Lake Huron," most probably U.Ord., Ashgill., base of Meaford F. of Manitoulin I., at Clay Cliffs S. of Cape Smyth, *fide* COPPER & MORRISON, 1978, p. 2017]. Add to synonymy of *Tetradium* DANA, subclass Tabulata, order Tetradiida, family Tetradiidae.

Trigonella ROZKOWSKA, 1979, p. 24 [**T. sandaliformis*; OD; †TcI/13, University Adam Mickiewicz, Poznan; Frasn., *Palmatolepis gigas* Zone, Jaźwica quarry, Holy Cross Mts., Pol.]. "?Marisastrid corallite with *Calceola* shape; major septa long, spindle-shaped in the dissepimentarium, thin in the tabularium; minor septa contratingent; cardinal septum short, thick; cardinal fossula triangular, open; counter septum elongated; dissepimentarium everted; tabularium broad, concave; fine structure of septa trabecular with fan-shaped trabeculae of the ?rhipidacanthine type." Subclass Rugosa, order Stauriida, suborder Columnariina, family Disphyllidae.

Weiningophyllum WANG, 1978, p. 124 [**W. sinense*; OD; †Gcr 87-92, GB, Guiyang; L.Carb., Liudongqiao, Weining, Guizhou (Kweichow)] [=*Beichuanophyllum* FAN, 1978, p. 152 (type, *B. pachyseptatum*, OD; †?(Scr 1, IGMR, Chengdu; L.Carb., Shawozi, Ganxi, Beichuan, Sichuan)]. Solitary, with very long cardinal fossula on shorter (concave) side of corallum; major septa greatly thickened; minor septa very short; major septa of counter quadrants short, more numerous than those of cardinal quadrants, which are very long. [Diagnosis tentative, from illustrations.] *L.Carb.*, Asia (China, Guizhou-Sichuan). Subclass Rugosa, order Stauriida, suborder Stereolasmatina, family Hapsiphyllidae.

Xiangzhouphyllum YU & KUANG, 1980, p. 178 [**X. minor*; OD; †54533-54537/Diy-7, ?IGP, Nanking; L.Dev., Guangxi, Xiangzhou distr.]. Subclass Rugosa, order Stauriida, suborder Cyathophyllina, ?family Cyathophyllidae.

Yanbianophyllum HE, 1978, p. 108 [*Y. *irregulare*; OD; †Scr 529, IGMR, Chengdu; U.Sil., Yema, Yanbian, Sichuan]. Solitary; septa numerous, long, may be weakly convolute and somewhat thickened in tabularium; minor septa discontinuous in late stages; tabular floors irregularly arched; dissepimentarium wide, floors steeply inclined, dissepiments elongate, inosculating in late stages. [Diagnosis tentative, from illustrations.] *U.Sil.*, Asia(China). Subclass Rugosa, order Stauriida, suborder Cyathophyllina, family Ptychophyllidae.

Zhushanophyllum HE, 1978, p. 170 [**Z. yangpoense*; OD; †Scr 738, IGMR, Chengdu; mid. L. Sil., Yangpo, Zhuchan, Hubei]. Phaceloid, septa acanthine, not reaching axis; minor septa distinctly shorter than major; tabulae flat, mesa-shaped or sagging, closely spaced; narrow dissepimentarium

?present in places. [Diagnosis tentative, from illustrations.] *L.Sil.*, Asia(China). Subclass Rugosa, order Cystiphyllida, family Tryplasmatidae, ?subfamily Tryplasmatinae.

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Italicized names in the following index are considered to be invalid; those printed in roman type, including morphological terms, are accepted as valid. The names of all taxa above the rank of superfamily are distinguished by the use of full capitals, and authors' names are set in large and small capitals. Page references having chief importance are in boldface type.