V. INDEX OF COLUMNALS

Remarks:

In this section the stratigraphic range given under the genus is the compiled **range of all named species based solely on columnals** assigned to the genus. It should be noted that this range may and often differs considerably from the range given under the same genus in Section I, because that range is based on species identified on cups or crowns. All other abbreviations and format follow that of Section I. Generic names followed by the type species are based on columnals. Genera, not followed by the type species, are based on cups and crowns as given in Section I.

There are a number of unlisted columnal taxa from the literature that are indexed as genera recognized on cups and crowns. Bassler and Moodey (1943) did not index columnal taxa that were not new names or identified genera with the species unnamed. I have included some of the omissions of Bassler and Moodey, but have not made a search of the extensive literature specifically for the omitted citations because of time constraints. Many of these unlisted taxa are illustrated in the early state surveys of the eastern and central United States.

Many of the columnal species assigned to genera based on cups or crowns are incorrect assignments. An uncertain, but significant, number of the columnal genera are synonyms of other columnal genera as they are based on different parts of the stem of a single taxon. Also a number of the columnal genera are synonyms of genera based on cups and crowns as they come from more distal parts of the stem not currently known to be associated with the cup or crown. Some of the columnal genera will ultimately prove to have priority over genera named or to be named on the basis of cups and crowns. Some of the columnal taxa may belong to cystoids or other non-crinoid pelmatozoans.

Many corrections in this revision of the earlier bibliographies and indices, but by no means most of the taxa, have been made on the stratigraphic age of the species. These are based on new series terms used for the different geologic systems being defined for international terms. Most of these are for the Ordovician and Mississippian. Some corrections are based on more recent publications that incorporate new fossil data. Other corrections will be made for future revisions as ratification of the international terms become available and as time allows for making the corrections. Also the geographic occurrences of the taxa are being revised to take into account the breakup of the U.S.S.R. This has been done for most of the Ordovician listings, and will be made for others as time permits in the future. The corrections are designed to aid in future paleogeographic and evolutionary studies.

I consider the columnal classification of Stukalina (1986, 1988) to contain separate families erected for different parts of the stem of a single crinoid genus. Most columnal famiiles are based on a single genus. Therefore her classification is not used, nor is any columnal classification applied at this time. Hopefully as columnal studies continue the classification applied will be based on the whole animal, however, I do not expect that to occur in the near future.

Index:

Abraded columnal Pabian and Holterhoff, 1988, p. 83, Fig. 1, no. B. Webster, 1993, p. 127.
Pennsylvanian, Virgilian, Calhoun Shale. United States, Kansas

ACANTHOCRINUS Roemer, 1850.
Haude, 1981, p. 188, Figs. 1, no. H; 2, middle. Seilacher and MacClintock, 2005, p. 229, Fig. 6, no. F.
Acanthocrinus (sensu lato) Stukalina, 1986, p. 83. Webster, 1993, p. 127.
Recognized number of named columnal species: 4 Devonian species, 1 subspecies; 3 Emsian (+1 subspecies), 1 early Devonian, series uncertain
Devonian, Emsian. Europe; Kazakhstan

Acanthocrinus (sensu lato) Stukalina, 1986 = ***ACANTHOCRINUS***

Acanthocrinus faouensis Le Menn, 1985. Le Menn, 1987b, p. 817, Pl. 2, figs. 7-9. Gluchowski, 1993b, p. 164, Pl. 1, figs. 1-2. Webster, 1993, p. 127.
Devonian, late Emsian, Verveur Formation; Bukowa Gora Shales Formation. France; Poland

Acanthocrinus gracilior vermicularis Schmidt, 1941, p. 211, Fig. 58, no. a. Webster, 1973, p. 277.
Devonian, Emsian, upper part of Coblenzian Beds. Germany

Acanthocrinus kersivienensis Le Menn, 1985, p. 42, Pl. 5, figs. 1-9. Le Menn, 1987b, p. 817, Pl. 2, figs. 10, 15. Webster, 1988, p. 169. Webster, 1993, p. 127.
Devonian, late Emsian, Bolast Formation. France, Armorican Massif

Acanthocrinus? monstruosus Yeltyschewa and Stukalina *in* Stukalina, 1971, p. 197, Pl. 2, fig. 20. Stukalina, 1977c, p. 151, Pl. 31, figs. 1-3. Webster, 1977, p. 184. Stukalina, 1978a, p. 56, Pl. 13, fig. 15. Gluchowski, 1981b, p. 32, Pl. 2, fig. 5. Stukalina, 1986, p. 83, Pl. 20, figs. 18-14. Webster, 1986, p. 325. Stukalina, 1988c, p. 64, Pl. 13, figs. 1-2. Webster, 1988, p. 169. Stukalina, 1991, p. 154, Pl. 42, figs. 9-10; Fig. 11, no. a. Webster, 1993, p. 127.
Devonian, Emsian, Sardzhal Horizon. Kazakhstan, Pribalkhash. Poland

Acanthocrinus rex Jaekel, 1895. Ubaghs *in* Moore and Teichert, 1978, p. T93, Fig. 69, no. 1. Webster, 1986, p. 325. Südkamp, 1995, p. 114, unnumbered fig. p. 114.
Early Devonian, series uncertain. Germany

Acanthocrinus sp. Breuer *et al.*, 1992, p. 66, Pl. 12, fig. 4.
Early Devonian, series uncertain. Germany

ACANTHODOCRINUS Yeltsychewa, 1979. **Acanthodocrinus rakverensis* Yeltyschewa, 1979.
Yeltyschewa, 1979, p. 102. Webster, 1986, p. 325.
Recognized number of named columnal species: 2 Ordovician, Katian species
Ordovician, Katian. Estonia

Acanthodocrinus magnispinosus Yeltyschewa, 1979, p. 102, Pl. 1, fig. 12. Webster, 1986, p. 325.
Ordovician, Katian, Vormsi Horizon. Estonia

**Acanthodocrinus rakverensis* Yeltsychewa, 1979, p. 102, Pl. 1, figs. 6-7. Webster, 1986, p. 325.
Ordovician, Katian, Vezenberg Horizon. Estonia

ACBASTAUCRINUS Sisova, 1979 = ***FLORICYCLUS***

ACBASTAURCRINUS Sisova, 1979 = ***FLORICYCLUS***

**Acbastaucrinus acbastauensis* Sisova, 1979 = *Floricyclus acbastauensis*

Acbastaucrinus affectatus Sisova, 1988 = *Floricyclus affectatus*

Acbastaucrinus? martynovae Sisova, 1983 = *Floricyclus martynovae*

Acbastaucrinus quinquangularis Sisova, 1983 = *Floricyclus martynovae*

Acbastaucrinus undosus Sisova, 1979 = *Floricyclus undosus*

ACTINOCRINITES Miller, 1821.
Recognized number of named columnal species: 9 species. 8 Devonian,7 Eifelian, 1 Famennian; 1 Mississippian, Tournaisian
Devonian, Eifleian, Famennian. Germany
Devonian, Famennian. United Kingdom
Mississippian, Tournaisian. Ireland

Actinocrinites amphora Gilbertson, 1836. Gilbertson *in* Portlock, 1843, p. 348, Pl. 16, figs. 1a-1b.
Mississippian, Tournaisian. Ireland

Actinocrinites cingulatus Goldfuss, 1866 = *Pestericrinus cingulatus*

Actinocrinites cingulatus nobis Goldfuss, 1866 = *Pentagonocyclicus cingulatus* = *Salairocrinus cingulatus* = *Pestericrinus cingulatus*

Actinocrinites cingulatus Goldfuss, 1831, p. 195, Pl. 59, figs. 7a-7b. Bassler and Moodey, 1943, p. 268.
Melocrinus cingulatus (Goldfuss, 1831). d'Orbigny, 1840, p. 104.
Actinocrinus cingulatus (Goldfuss, 1831). Bronn, 1848, p. 14. Dujardin and Hupé, 1862, p.139.
Asterocrinus cingulatus (Goldfuss, 1831). d'Orbigny, 1850, p. 104.
Devonian, Eifelian. Germany

Actinocrinites laevis Miller, 1821. (**Note**: Probably not *A. laevis* and more than one species. GDW)
Goldfuss, 1831, p. 193, Pl. 59, figs. 3b-3e.
Early Carboniferous. Belgium
Kutorga, 1845-1846, p. 134, Pl. 8, fig. 6.
Devonian, Limestone of Wochana. Poland
Quenstedt, 1852, p. 622, Pl. 55, figs. 5-6. Quenstedt, 1867, p. 746, Pl. 69, figs. 5-6. Quenstedt, 1885, p. 961, Pl. 78, figs. 4-5.
Devonian, Eifelian. Germany

Actinocrinites moniliferus Goldfuss, 1831, p. 190, Pl. 59, figs. 10a-10b. Bassler and Moodey, 1943, p. 271.
Melocrinus moniliferus (Goldfuss, 1831). d'Orbigny, 1840, p. 104. Bassler and Moodey, 1943, p. 271.
Asterocrinus moniliferus (Goldfuss, 1831). d'Orbigny, 1850, p. 104.
Devonian, Eifelian. Germany

?Actinocrinites moniliformis Miller, 1821 (*non* Phillips, 1839) = *Cyathocrinites pinnatus*

Actinocrinites muricatus Goldfuss, 1831, p. 195, Pl. 59, figs. 8a-8c. Roemer, F. A., 1843, p. 9, Pl. 3, fig. 17. Roemer, F. A., 1866b, p. 227. Bassler and Moodey, 1943, p. 272.
Actinocrinus muricatus (Goldfuss, 1831). Bronn, 1848, p. 14. Dujardin and Hupé, 1862, p.139. Quenstedt, 1876, p. 649, Pl. 112, fig. 128.
Asterocrinus muricatus (Goldfuss, 1831). d'Orbigny, 1850, p. 104.
Devonian, Eifelian, Eifel Limestone. Germany

Actinocrinites cf. *muricatus* Goldfuss, 1831. Quenstedt, 1876, p. 649, Pl. 112, fig. 127.
Devonian, Eifelian, Eifel Limestone. Germany

Actinocrinites nodiger Eichwald, 1856, 1857 = *Hexacrinus nodiger*

Actinocrinites nodulosus Goldfuss, 1831, p. 195, Pl. 59, fig. 9. Roemer, F. A., 1843, p. 9, Pl. 12, fig. 7. Quenstedt, 1852, p. 623, Pl. 54, figs. 33a-33b. Roemer, F. A., 1866b, p. 227. Quenstedt, 1867, p. 746, Pl. 68, figs. 33a-33b. Quenstedt, 1885, p. 962, Pl. 78, fig. 8. Bassler and Moodey, 1943, p. 272.
Actinocrinus nodulosus (Goldfuss, 1831). Bronn, 1848, p. 14.
Actinocrinus nodulus (Goldfuss, 1831). Dujardin and Hupé, 1862, p. 139 (sic),
Asterocrinus nodulosus (Goldfuss, 1831). d'Orbigny, 1850, p. 104.
Devonian, Eifelian, Schalke Limestone; Kahleberg Schraubstone. Germany

Actinocrinites plumosus (Hall); Shumard, 1868 = *Eomyelodactylus ?plumosus*

Actinocrinites tenuistriatus Phillips, 1841. Roemer, F. A., 1843, p. 9, Pl. 3, fig. 16. Roemer, F. A., 1866b, p. 229.
Asterocrinus tenuistriatus (Phillips, 1841). d'Orbigny, 1850, p. 104.
Early - Late Devonian, Famennian, Kalkberg Ironstone; Pilton Beds. Germany; United Kingdom

Actinocrinites tesseratus Goldfuss, 1831, p. 196, Pl. 59, figs. 11b-11g. Bassler and Moodey, 1943, p. 275. (columnals of a Cupressocrinitid, GDW).
Devonian, Eifelian. Germany

Actinocrinites triacontadactylus Miller, 1821.
Goldfuss, 1831, p. 194, Pl. 59, figs. 6a-6e.
Devonian, Eifelian. Germany
Gilbertson *in* Portlock, 1843, p. 348, Pl. 16, figs. 2, 7-9.
Mississippian, series uncertain. Ireland

Taxa assigned to *ACTINOCRINUS* may or may not belong to *ACTINOCRINITES*, unless reassigned by a later author. They are left in *Actinocrinus* and are not included in the species count.

Actinocrinus cingulatus (Goldfuss, 1866) = *Actinocrinites cingulatus*

Actinocrinus costatus Eichwald, 1856, p. 118. Eichwald, 1860, p. 606, Pl. 33, figs. 14a-14e. Bassler and Moodey, 1943, p. 277.
Ordovician, Darriwilian, *Orthoceras* Limestone. Russia

Actinocrinus moniliformis Miller, 1821 = *Cyathocrinites pinnatus*

Actinocrinus muricatus (Goldfuss, 1831) = *Actinocrinites muricatus*

Actinocrinus nodifer Eichwald, 1856 = *Hexacrinus nodifer*

Actinocrinus nodulosus (Goldfuss, 1831) = *Actinocrinites nodulosus*

Actinocrinus nodulosus Roemer, 1843 (*non* Goldfuss, 1831) = *Platycrinus echinatus* = *Platycrinites echinatus*

Actinocrinus nodulus (Goldfuss, 1831) = *Actinocrinites nodulosus*

Actinocrinus parvus Shumard, 1855 = *Orocrinus parvus*

Actinocrinus ?plumosus Hall, 1843 = *Eomyelodactylus ?plumosus*

Actinocrinus punctatus Eichwald, 1856 = *Ctenocrinus punctatus*

Actinocrinus tenuistriatus Roemer, 1843. Richter and Unger, 1856, p. 131, Pl. 3, figs. 7-9.
Devonian, Famennian. Germany

Actinocrinus sp.
Baily, 1875, Pl. 36, fig. 8.
Mississippian, Tournaisian. Ireland

Krotova, 1885 = *Cyathocrinus* sp.

Actinocrinus? sp. Geinitz, 1867, p. 64, Pl. 4, figs, 25-26. (Dendrocrinid? Columnals, GDW)
Pennsylvanian. United States, Nebraska

AETHOCRINUS Ubaghs, 1969.
Recognized number of named columnal species: 1 Ordovician, Floian species
Ordovician, Floian (Arenigian). France

Aethocrinus murchisoni Donovan, 1986d, p. 37, Pl. 5, figs. 1-3; Fig. 20, no. L. Donovan, 1988c, p. 238. Webster, 1993, p. 127. Ausich, 1998, p. 507.
Encrinite stem (the oldest known). Murchison, 1859, p. 50, Woodcut, fossils (8), fig. 9. Ausich, 1998, p. 507.
Ordovician, Floian (Arenigian), Mytton Flagsy. United Kingdom

AGARICOCRINUS Hall, 1858.
Haude, 1981, p. 188, Fig. 2, middle.
Mississippian, Viséan (Osagean). United States

Agaricocrinus? stem Lane, 1973, p. 73, Fig. 16. Webster, 1977, p. 184.
Mississippian, Viséan (Osagean), Edwardsville Member. United States, Indiana

AGATHOCRINUS Schewtschenko, 1967.
Agathocrinus (sensu lato) Stukalina, 1986, p. 83. Webster, 1993, p. 127.
Recognized number of named columnal species: 6 Devonian species; 3 Early Devonian, uncertain, 1 Emsian, 1 Givetian, 1 Frasnian
Early Devonian, series uncertain. Russia, northeastern Salair, Kuznetz Basin; Tajikistan, Zeravshan Range
Devonian, Emsian, Givetian. France, Armorican Massif
Late Devonian. Russia, Novosibirsk

Agathocrinus (sensu lato) Stukalina, 1986 = ***AGATHOCRINUS***

Agathocrinus acanthaceus Schewtschenko, 1967, p. 87, Pl. 10, figs. 7-8; Fig. 9. Schewtschenko, 1968b, p. 83, Pl. 10, figs. 7-8; Fig. 9. Dubatolova, 1971, p. 62, Pl. 8, figs. 1-2; Fig. 28. Webster, 1973, p. 277. Webster, 1977, p. 184.
Early Devonian, series uncertain. Russia, northeastern Salair
Early Devonian, series uncertain. Tajikistan, Zeravshan Range

Agathocrinus brevis Le Menn, 1988b, p. 460, Pl. 53, figs. 2-3, 8. Webster, 1993, p. 127.
Devonian, Givetian, Blacourt Formation, Griset Member. France

Agathocrinus inflatus (Dubatolova, 1964). Dubatolova, 1971, p. 62. Webster, 1977, p. 184.
Pentagonocyclicus inflatus Dubatolova, 1964, p. 71, Pl. 9, figs. 11, 15; Fig. 9. Dubatolova, 1971, p. 62. Webster, 1973, p. 308. Webster, 1977, p. 184.

Early Devonian. Russia, Kuznetz Basin

Agathocrinus laevis Le Menn, 1981, p. 262, Pl. 33, figs. 17-20. Le Menn, 1985, p. 63, Pl. 11, figs. 3-4. Webster, 1988, p. 169.
Devonian, late Emsian, Marettes Formation, Reun ar C'Hrank Formation. France, Armorican Massif

Agathocrinus? sufflatus Yeltsychewa *in* Yeltyschewa and Stukalina, 1977, p. 212, Pl. 3, figs. 7-9. Webster, 1986, p. 325.
Devonian, Frasnian. Russia, Novosibirsk

Agathocrinus? verruculatus Dubatolova, 1971, p. 63, Pl. 8, figs. 3-4; Fig. 29. Webster, 1977, p. 184.
Early Devonian. Russia, northeastern Salair

ALGABASOCRINUS Stukalina and Tujutjan, 1970. **A. obtusus* Stukalina and Tujutjan, 1970.
Stukalina and Tujutjan, 1970, p. 64. Webster, 1977, p. 184. Jeffords *in* Moore and Teichert, 1978, p. T932. Stukalina, 1986, p. 76. Webster, 1993, p. 128.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Eastern Kazakhstan

**Algabasocrinus obtusus* Stukalina and Tujutjan, 1970, p. 65, Figs. 1, no. 7; 10. Webster, 1977, p. 184.
Ordovician, Sandbian. Eastern Kazakhstan

ALTAECRINUS Stukalina, 1966. *Nomen nudum*
Stukalina, 1966, p. 101. Jeffords *in* Moore and Teichert, 1978, p. T936.

Altaecrinus altaicus (Yeltyschewa, 1964). Stukalina, 1966, p. 101 (*nomen nudum*).

ALTIMARGINALICRINUS Stukalina, 1979. **Pentagonocyclicus altimarginalis* Yeltyschewa, 1955.
Stukalina, 1979a, p. 150. Stukalina, 1986, p. 79. Webster, 1986, p. 326. Webster, 1988, p. 169. Webster, 1993, p.128.
Recognized number of named columnal species:2 species. I Ordovician, Darriwilian – Sandbian, 1 Late Silurian
Ordovician, Darriwilian - Sandbian. Russia, Siberian Platform, Central Taymyr
Late Silurian. Canada, Nova Scotia; Poland

**Altimarginalicrinus altimarginalis* (Yeltsychewa, 1955). Stukalina, 1979a, p. 151, Pl. 31, figs. 15-16; Fig. 32, no. g (not Pl. 31, figs. 17-18 as given p. 151) . Stukalina, 1982c, p. 179, Fig. 11, no. 3. Stukalina, 1984, p. 107, Pl. 37, fig. 18. Stukalina, 1986, p. 79, Pl. 20, fig. 1. Webster, 1986, p. 326. Stukalina, 1988c, p. 62, Pl. 7, fig. 13. Webster, 1988, p. 169. Webster, 1993, p. 128.
Pentagonocyclicus altimarginalis Yeltsychewa, 1955a, p. 46, Pl. 37, fig. 4. Yeltyschewa, 1960, p. 20, Pl. 3, figs. 12-13. Yeltyschewa and Stukalina, 1963, p. 50, Pl. 1, fig. 9; Fig. 17. Yeltyschewa and Stukalina, 1964b, p. 75, Pl. 15, fig. 17.

Schewtschenko, 1971, p. 21, Pl. 5, figs. 1-2; Fig. 24. Webster, 1973, p. 305. Webster, 1977, p. 210. Stukalina, 1979a, p. 151. Gluchowski, 1981a, p. 101, Fig. 3. Gluchowski, 1981b, p. 50, Pl. 1, fig. 11. Webster, 1986, p. 326. Webster, 1988,
p. 202. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 294, Pl. 108, figs. 4-5.
Ordovician, Darriwilian - Sandbian, Mangazeja Horizon, upper part of Baksansky and lower part of Dolbor Horizons. Russia, Siberian Platform, Taymyr
Silurian,Ludlovian (Podlasian), Rzepin Formation. Poland

Altimarginalicrinus tenuis Le Menn *in* Blaise *et al.*, 1991, p. 174, Pl. 2, figs. 14-15.
Late Silurian, White Rock Formation. Canada, Nova Scotia

AMAZARICRINUS Kurilenko, 2001. *Amazaricrinus ildicanensis Kurilenko, 2001.
Kurilenko, 2001, p. 45. Kurilenko *in* Kurilenko, et al., 2002, p. 163.
Recognized number of named columnal species: 2 Devonian, Pragian species
Devonian, Pragian. Russia, Eastern Transbaikal

**Amazaricrinus ildicanensis* Kurilenko, 2001, p. 45, Pl. 1, figs. 1-3; Fig. 2, no. b. Kurilenko *in* Kurilenko, et al., 2002, p. 164, Pls. 56, figs. 9-11; 57, figs. 1-18. Kurilenko and Kulkov, 2008, p. 464, Fig. 3, nos. A, H, P.
Kuzbassocrinus binidigitatus Stukalina, 1978 (part). Kurilenko *in* Kurilenko, et al., 2002, p. 164.
Devonian, Pragian, Ildican Suite, Bolshoi Never Suite, Bolsharuzhennkh and Karbonathkh Horizons. Russia, Eastern Transbaikal

Amazaricrinus minimus (Stukalina, 1977). Kurilenko *in* Kurilenko, et al., 2002, p. 165, Pl.
57, figs. 21-22. Kurilenko and Kulkov, 2008, p. 464, Fig. 3, no. K.
Kuzbassocrinus minimus Stukalina, 1977c, p. 156, Pl. 31, fig. 11. Stukalina, 1978c, p. 60, Pl. 14, figs. 1-2. Stukalina, 1986, p. 81, Pl. 20, fig. 17. Webster, 1986, p. 363. Stukalina, 1988c, p. 64, Pl. 12, fig. 13. Webster, 1993, p. 168. Kurilenko *in* Kurilenko, et al., 2002, p. 165.
Devonian, Pragian, Ildican Suite, Bolsheever Suite. Russia, Eastern Transbaikal, Upper Amur Basin

AMMONICRINUS Springer, 1926.
Recognized number of named columnal species: 5 species. 4 Devonian, 1 Pragian, 1 Emsian, 1, Eifelian – Givetian, 1 Givetian; 1 Mississippian, series uncertain
Devonian, Pragian. Czech Republic
Devonian, Emsian. France
Devonian, Eifelian - Givetian. Poland
Mississippian, Tournaisian. Russia, Donetz Basin

Ammonicrinus bulbosus Prokop, 2009c, p. 162, Fig. 2, nos. B-H.
Devonian, Pragian, Koneprusy Limestone. Czech Republic

Ammonicrinus kerdreoletensis Le Menn and Jaouen, 2003, p. 210, Fig. 4, nos. A-C.

Hauser, 2005, p. 16, Fig. 10; unnumbered fig. p. 36.
Devonian, late Emsian, *patulus* Conodont Biozone, Kerdréolet Formation. France

Ammonicrinus kongieli Piotrowski, 1977, p. 213, Pls. 18, figs. 1-3, 9; 19, figs. 1-10 (not Pl. 18, figs. 1-9 as given p. 213). Hauser, 2005, p. 18, Figs. 11-12; unnumbered fig. p. 32.
Devonian, Givetian, Skalska Series, upper part of Skaly Formation, Sierzawa Member. Poland, Holy Cross Mountains

Ammonicrinus nordicus Yakovlev and Ivanov, 1956. Hauser, 2005, p. 20, Fig. 13; unnumbered fig. p. 32. (Probably a camptocrinid, GDW)
Mississippian, series uncertain. Russia, Donetz Basin

Ammonicrinus sulcatus Kongiel, 1958. Ubaghs *in* Moore and Teichert, 1978, p. T78, Fig. 57, no. 9. Gluchowski, 1981b, p. 36, Pl. 2, fig. 10. Webster, 1986, p. 326. Webster, 1988, p. 169. Gluchowski, 1993a, p. 48, Fig. 7, no. H. Le Menn and Jaouen, 2003, p. 208, Fig. 1, no. A.
Devonian, Eifelian/Givetian, Skaly Beds. Poland

Ammonicrinus sp. Hotchkiss, Prokop, and Petr, 1999, p. 330, Fig. 2, no. 21.
Devonian, Pragian, Trebotov Limestone. Czech Republic

AMPHOLENIUM Moore and Jeffords, 1968. **A. apolegma* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 75. Webster, 1973, p. 277. Jeffords *in* Moore and Teichert, 1978, p. T932. Webster, 1988, p. 169. Velasco de Leon and Sanchez, 1992, p. 75, Pl. 1, fig. 4.
Recognized number of named columnal species: 1 Mississippian Tournaisian – Viséan species
Mississippian, Tournaisian. Poland
Mississippian, Viséan (Osagean); basal part of Patlanoaya Formation. United States

**Ampholenium apolegma* Moore and Jeffords, 1968, p. 75, Pl. 23, fig. 2. Webster, 1973, p. 277. Gluchowski, 1981b, p. 45, Pl. 5, fig. 7. Webster, 1988, p. 169.
Mississippian, Viséan (Osagean), Floyds Knob Formation. United States, Kentucky
Mississippian, Tournaisian. Poland

AMSDENANTERIS Moore and Jeffords, 1968. **A. tennesseensis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 60. Webster, 1973, p. 277. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 1 Siliurain, Niagaran species
Silurian, Niagaran. United States, Tennessee

**Amsdenanteris tennesseensis* Moore and Jeffords, 1968, p. 60, Pl. 11, figs. 7-8. Webster, 1973, p. 277.
Silurian, Niagaran, Brownsport Formation. United States, Tennessee

AMUROCRINUS Dubatolova, 1971. **Pentagonocyclicus imatschensis* Yeltyschewa and

Dubatolova, 1961.
Dubatolova, 1971, p. 87. Webster, 1977, p. 184. Jeffords *in* Moore and Teichert, 1978, p. T932. Stukalina, 1986, p. 83. Webster, 1988, p. 169. Webster, 1993, p. 128. Ebert, 1994, p. 48. Franke, C., 2012, p. 61.
Recognized number of named columnal species: 3 Devonian species, 1 Emsian, 1 Emsian – Eifelian, 1 Eifelian - Frasnian
Devonian, Eifelian – Frasnian. Russia, Far East
Devonian, Emsian - Eifelian. Germany
Devonian, late Emsian. France Armorican Massif; Poland

Amurocrinus conserratus (Yeltyschewa and Dubatolova, 1967). Kurilenko *in* Kurilenko, et al., 2002, p. 168, Pls. 61, figs. 16-17; 62, fig. 10; 65, figs. 12-14; 66, figs. 10-13. Kurilenko and Kulkov, 2008, p. 464, Fig. 4, no. G.
Devonian, Givetian, Oldoy Horizon ; Eifelian – early Frasnian. Russia, Far East Transbaikal

**Amurocrinus imatschensis* (Yeltyschewa and Dubatolova, 1961). Dubatolova, 1971, p. 87, Pl. 10, figs. 6-18; Fig. 41. Webster, 1977, p. 184. Gluchowski, 1981b, p. 50, Pl. 3, fig. 18. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 10. Dubatolova, 1988, p. 75, Pl. 16, figs. 8-13, Unnum. Fig. p. 68, no. n. Webster, 1988, p. 170. Gluchowski, 1993a, p. 58, Fig. 10, no. G. Webster, 1993, p. 128. Ebert, 1994, p. 48, Pl. 3, figs. 5-6, 8; Figs. 46-47, 71-72, 74. Kurilenko *in* Kurilenko, et al., 2002, p. 167, Pls. 60, fig. 7; 62, fig. 17; 65, figs. 3-9; 66, fig. 18; 67, fig. 14. Kurilenko and Kulkov, 2008, p. 466, Fig. 4, no. A.
Pentagonocyclicus imatschensis Yeltyschewa and Dubatolova, 1961, p. 558, Pl. D-87, figs. 14-15. Yeltyschewa and Dubatolova, 1967, p. 49, Pl. 6, figs. 10-11; Fig. 20 (*non* Fig. 21 as given in text). Modzalevskaya, 1967, p. 546, Pl. 4, fig. 22. Yeltyschewa, 1969, p. 163, Pl. 40, figs. 7-9. Webster, 1973, p. 307. Webster, 1977, p. 184. Dubatolova, 1971, p. 87.
Middle - Late Devonian, Pragian – Frasnian; Jmatchinskian Suite; Ilinskaya Suite, upper part of Beloubinskoi Suite; Oldoy Horizon; Swietomarz Beds; Laskowa Gora Beds; Szydlowek Beds; lower part of Wietrznia Beds. Russia, Altai Mountains; Far East Trasnbaikal, Upper Amur Basin; Poland
Devonian, Emsian - Eifelian, Stöppel Formation; Brachtpe Formation. Germany

Amurocrinus lefretensis Le Menn, 1985, p. 143, Pls. 31, figs. 26-29; 32, figs. 1-3. Le Menn, 1987b, p. 815, Pl. 2, figs. 1-3. Webster, 1988, p. 170. Gluchowski, 1993b, p. 170, Pl. 4, figs. 4-6. Webster, 1993, p. 128. Franke, C., 2012, p. 62, Pl. 27, figs. 1-4.
Devonian, late Emsian, Berg an Arreun Formation; Bukowa Gora Shale Formation. France, Armorican Massif; Poland

Amurocrinus sp. Le Menn, 1985, p. 145, Pl. 32, figs. 4-5. Webster, 1988, p. 170.
Devonian, late Emsian, Bolast Formation. France, Armorican Massif

ANAMESOCRINUS Goldring, 1923.
Devonian, Givetian. United States, New York

Anamesocrinus sp. Brett, 1981b, p. 344, Fig. 1, no. B. Webster, 1988, p. 170.
Devonian, Givetian, Ledyard Shale. United States, New York

ANCYROCRINUS Hall, 1862. **A. bulbosus* Miller, 1889.
Shumard, 1868, p. 354. Zittel, 1880, p. 380. Moore and Laudon, 1943b, p. 103. Webster, 1973, p. 277. Jeffords *in* Moore and Teichert, 1978, p. T932. Haude, 1981, p. 194, Fig. 8. Webster, 1993, p. 128. Donovan, 2006a, p. 398.
Recognized number of named columnal species: 4 Devonian species, 1 Emsian – Frasnian, I Eifelian, 2 Givetian
Devonian, Emsian – Frasnian. France
Devonian, late Eifelian-early Givetian. Spain
Devonian, Givetian. United States, New York, Indiana, Illinois, Missouri

Ancyrocrinus armoricanus Morzadec, 1967. Le Menn, 1985, p. 92, Pls. 18, fig. 25; 20, figs. 8-12. Webster, 1988, p. 170. Le Menn and Pidal, 1989, p. 265, Pl. 5, figs. 15-19. Webster, 1993, p. 128.
Devonian, late Emsian - Frasnian, Candas, Pineres, Nocedo, Portilla, and La Vid Formations; Quelern, Tibidy, Kersadiou, and Kerbelec Formations. Spain
Devonian, Eifelian-early Givetian. France

**Ancyrocrinus bulbosus* Hall, 1862. Shumard, 1868, p. 354. Fraunfelter, 1974, p. 19, Pl. 3, fig. 1. Conkin and Conkin, 1976, p. 223, Pl. 8. Ubaghs *in* Moore and Teichert, 1978, p. T90, Fig. 66, nos. 1-5. Brett, 1981b, p. 348, Fig. 3, no. D. Webster, 1986, p. 326. Webster, 1988, p. 170. Le Menn and Jaouen, 2003, p. 206, Fig. 1, no. B. Fearnhead, 2008, p. 51, Fig. 3, nos. B-C.
Devonian, Givetian, St. Laurent Limestone; Lingle Limestone; Beechwood Formation. United States, Indiana

Ancyrocrinus crozonensis Le Menn and Jaouen, 2003, p. 209, Fig. 3, nos. A-D.
Devonian, early Eifelian, Saint-Fiacre Formation, *costatus* Biozone. France.

Ancyrocrinus spinosus Hall, 1862. Shumard, 1868, p. 354. Moore and Laudon, 1944, p. 209, Pl. 79, fig. 30. Webster, 1973, p. 277. Fraunfelter, 1974, p. 19, Pl. 3, fig. 2. Webster, 1986, p. 326.
Devonian, Givetian, Lingle Limestone. United States, New York, Illinois, Missouri

Ancyrocrinus spp.
Lowenstam, 1942, p. 21, Pls. 5, figs. 2-15; 6, figs. 1-8; Diags. 1-3; Chart 1. Webster, 1977, p. 185. (Pl. 5, fig. 2 probably not an *Ancyrocrinus*, Mississippian, locality unknown.)
Devonian, Eifelian or Givetian (Erian), Hamilton Group. United States, New York, Indiana
Conkin and Conkin, 1984, p. 35, Fig. 6. Webster, 1988, p. 170.
Devonian, Givetian, Beechwood Formation. United States, Indiana
Seilacher and MacClintock, 2005, p. 231, Fig. 10, nos. A-E.
Early – Middle Devonian. United States, New York, Indiana

ANDERKENICRINUS Stukalina, 1985. **A. antiquus* Stukalina, 1985.

Stukalina, 1985a, p. 183. Stukalina, 1986, p. 54. Webster, 1988, p. 170. Webster, 1993, p. 128.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Kazakhstan

**Anderkenicrinus antiquus* Stukalina, 1985a, p. 184, Pl. 2, figs. 10-11. Stukalina, 1986, p. 54, Pl. 7, fig. 9 (typographical error, *A. antiguus* in plate explanation). Stukalina, 1988c, p. 56, Pl. 2, fig. 18. Webster, 1988, p. 170. Webster, 1993, p. 128.
Ordovician, Sandbian, Anderken Horizon. Southern Kazakhstan

ANGUSTICRINUS Stukalina, 1980. **A. excisus* Stukalina, 1980.
Stukalina, 1980b, p. 109. Stukalina, 1986, p. 67. Webster, 1986, p. 326. Webster, 1993, p. 128.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. Kazhakstan, Kirghiz Range

**Angusticrinus excisus* Stukalina, 1980b, p. 109, Pl. 23, fig. 7; Fig. 19, no. 4. Webster, 1986, p. 326. Stukalina, 1988c, p. 59, Pl. 5, fig. 15. Webster, 1993, p. 129.
Ordovician, Darriwilian, upper part of Itkebash Formation. Kazhakstan, Kirghiz Range

ANNULOCOLUMNUS Donovan, 1989. **A. annulus* Donovan, 1989.
Donovan, 1989d, p. 98. Webster, 1993, p. 129.
Recognized number of named columnal species: 3 Ordovician species, 1 Dapingian, 1 Sandbian, 1 Katian
Ordovician, Dapingian - Katian. United Kingdom

**Annulocolumnus annulus* Donovan, 1989d, p. 100, Pl. 11, figs. 4-5; Fig. 35, no. C. Webster, 1993, p. 129.
Ordovician, Dapingian, Treiorwerth Formation. United Kingdom

Annulocolumnus tyronensis Donovan, 1989d, p. 100, Pl. 10, figs. 7, 9. Webster, 1993, p. 129.
Ordovician, Katian. United Kingdom

Annulocolumnus urceus Donovan, 1989d, p. 101, Pl. 10, figs. 2-3. Webster, 1993, p. 129.
Ordovician, Sandbian, Rhiwlas Limestone. United Kingdom

Annulocolumnus spp.
Donovan, 1989d, p. 101. Webster, 1993, p. 129.
Ordovician, Sandbian, Keisley Limestone. United Kingdom
Donovan, 1989d, p. 101, Fig. 36, nos. D-F. Webster, 1993, p. 129.
Ordovician, Darriwilian, Medowtown Beds. United Kingdom

ANOMALOCRINUS Meek and Worthen, 1865.
Recognized number of named columnal species: 2 Ordovician species, 1 Sandbian,

1 Katian
Ordovician, Sandbian. Canada, Ontario

Ordovician, Katian. United States, Ohio, Kentucky Canada, Ontario

Anomalocrinus? discoidal holdfast Brett and Liddell, 1978, p. 340, Fig. 5, no. L. Webster, 1986, p. 326.
Ordovician,Sandbian (Trentonian), Bobcaygeon Formation. Canada, Ontario

Anomalocrinus incurvus (Meek and Worthen, 1865). Meyer et al., 2002, p. 727, Fig. 2, no. 6.
Ordovician, Katian, Kope and Fairview Formations. United States, Ohio, Kentucky

Anomalocrinus sp. Brett, Deline and McLaughlin, 2008, p. 37, Figs. 2.17-2.18.
Ordovician, Katian (Cincinnatian, Edenian), Kope Formation, Economy Member. United States, Kentucky

ANTHINOCRINUS Yeltyschewa and Sisova *in* Stukalina, 1961. **A. ludlowicus* Stukalina, 1961.
Yeltyschewa and Sisova *in* Stukalina, 1961, p. 34. Stukalina, 1970b, p. 80. Dubatolova, 1971, p. 33. Webster, 1973, p. 277. Stukalina, 1975, p. 141. Le Menn *in* Le Menn *et al.*, 1976, p. 50. Webster, 1977, p. 185. Jeffords *in* Moore and Teichert, 1978, p. T932. Stukalina, 1986, p. 69. Webster, 1986, p. 326. Webster, 1988, p. 170. Stukalina, 1991, p. 171. Webster, 1993, p. 129. Ebert, 1994, p. 30. Stukalina, 1998, p. 15. Franke, C., 2012, p. 55.
Recognized number of named columnal species: 25 species. 10 Silurian, 1 Wenlockian, 1 Wenlockian – Ludlovian, 3 Ludlovian, 2 Ludlovian – Pridoli, 3 Late Silurian series uncertain; 1 Silurian, Ludlovian, Devonian, Eifelian – givetian; 12 Devonian, 1 Lochkovian, 1 pragian, 1 Emsian – Eifelian, 1 Early Devonain series uncertain, 3 Eifelian, 1 Eifelian – Givetian, 1 Givetian, 2 Mid Devonian series uncertain, 1 Devonian series uncertain; 2 Mississippian, 1 Viséan, 1 series uncertain
Late Silurian - Early Devonian - Mississippian. Russia, Kazakhstan, Novaya Zemlya, Podolia; Estonia; France; Poland

Anthinocrinus abditus Schewtschenko, 1966 = *Facetocrinus abditus*

Anthinocrinus acutulus Dubatolova, 1964 = *Facetocrinus acutulus*

Anthinocrinus admirabilis Milicina, 2001a, p. 63, Pl. 8, figs. 5a-5b; Fig. 5, nos. a-b. Milicina, 2001b, p. 399, Pl. 8, figs. 5a-5b; Fig. 5, nos. a-b.
Silurian, late Wenlockian, Elkina Horizon. Russia, East slope of Ural Mountains

Anthinocrinus arenosus Yeltyschewa and Dubatolova, 1967, p. 45, Pl. 5, figs. 13-15. Webster, 1973, p. 277. Gluchowski, 1981b, p. 37, Pl. 4, fig. 4. Webster, 1988, p. 170.

Mississippian, Viséan. Russia, Upper Priamur
Mississippian, Viséan. Poland

Anthinocrinus arreunensis Le Menn, 1985, p. 111, Pl. 25, figs. 1-3. Webster, 1988, p. 170. Ebert, 1994, p. 30, Pl. 1, figs. 16, 20; Figs. 24-25, 61, no. a; 73-74.
Devonian, late Emsian, Eifelian, Prioldy Formation; Hobräck Formation. France, Armorican Massif; Germany

Anthinocrinus balaensis Stukalina, 1971, p. 197, Pl. 2, fig. 19 (typographical error as *K. balaensis* p. 197). Webster, 1977, p. 185.
Devonian, Eifelian, Sardzhal Horizon. Kazakhstan, Pribalkhash

Anthinocrinus blandus Dubatolova, 1975 = *Blandicrinus blandus*

Anthinocrinus brevicostatus Gluchowski, 1993a, p. 50, 66, Fig. 8, no. E.
Devonian, Givetian, Laskowa Gora Beds; lower part of Wietrznia Beds: Dziewki Limestone. Poland

Anthinocrinus carbonicus Yltyschewa, 1969 = *Pentaridica carbonica*

Anthinocrinus cognatus Dubatolova, 1964, p. 56, Pl. 7, figs. 7-8. Webster, 1973, p. 277.
Early Devonian. Russia, Kuznetz Basin

Anthinocrinus conspicuus Dubatolova, 1964 = *Facetocrinus conspicuus*

Anthinocrinus costatus Stukalina, 1986, p. 141, Pl. 32, figs. 13-15 (*nomem nudum*), no description. Webster, 1993, p. 129. Stukalina, 1994, p. 57, Fig. 1, no. 5. Stukalina, 1995a, p. 75, Fig. 1, no. 5.
Late Silurian, Tokrau Horizon. Kazakhstan

Anthinocrinus eugeniae Yeltyschewa and Dubatolova, 1967 = **Urushicrinus eugeniae*

Anthinocrinus floreus Yeltyschewa *in* Yeltyschewa and Dubatolova, 1967 = *Floricrinus floreus* = *Ononicrinus gracilis*

Anthinocrinus aff. *floreus* Yeltyschewa *in* Dubatolova, 1964 = *Anthinocrinus primaevus*

Anthinocrinus floreus gracilis (Yeltyschewa and Dubatolova, 1961) = *Ononicrinus gracilis*

Anthinocrinus floreus var. *magna* Sisova, 1960, p. 53 (*nomen nudum*). Webster, 1973, p. 278.
Devonian, Eifelian - Frasnian. Kazakhstan

Anthinocrinus floreus rotundus Yeltyschewa and Sisova, 1973, p. 90, Pl. 1, figs. 5-7; Fig. 3. Webster, 1977, p. 185.
Middle - Late Devonian. Central Kazakhstan, Pribalkhash

Anthinocrinus grandilobatus Dubatolova, 1971 = *Floricrinus grandilobatus*

Anthinocrinus incisus Yeltyschewa *in* Dubatolova, 1964 = *Wenjukowicrinus incisus*

Anthinocrinus kulagaiensis Dubatolova, 1975a, p. 7, Pl. 1, figs. 1-3; Fig. 1. Gluchowski, 1981b, p. 37, Pl. 4, fig. 1. Dubatolova and Dubatolova, 1982, p. 37, Pl. 1, figs. 1-3; Fig. 1. Webster, 1986, p. 327. Webster, 1988, p. 171.
Devonian, Eifelian, Givetian, Tashtip Horizon. Poland; Russia, Southern Minusin and Tuvin Depressions

Anthinocrinus lacrimalis Dubatolova, 1971, p. 40, Pl. 4, figs. 6-8; Fig. 13. Webster, 1977, p. 185.
Middle Devonian. Russia, Altai Mountains

Anthinocrinus levis Stukalina, 1994, p. 57, Fig. 1, no. 3. Stukalina, 1995a, p. 74, Fig. 1, no. 3. Stukalina, 1998, p. 16, Fig. 4, no. 2
Silurian, Ludlovian - Pridoli. Russia, Novaya Zemlya, East European Platform

Anthinocrinus luchi Yeltyschewa, 1968, p. 40, Pl. 5, figs. 23-25. Webster, 1973, p. 278. Gluchowski, 1981b, p. 37, Pl. 1, fig. 17. Webster, 1988, p. 171. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 292, Pl. 108, fig. 15.
Silurian, Ludlovian (Podlasian), Rzepin Formation; Skalsk Horizon. Russia, Podolia; Poland

**Anthinocrinus ludlowicus* Stukalina, 1961, p. 34, Pl. 2, fig. 6. Stukalina, 1965b, p. 135, Pl. 2, figs. 12-14. Dubatolova, 1968, p. 147, Pl. 15, fig. 7; Fig. 5. Webster, 1973, p. 278. Stukalina, 1975, p. 136, Pl. 34, fig. 1. Gluchowski, 1977, p. 309, Fig. 7. Stukalina, 1986, p. 69, Pl. 15, fig. 1. Webster, 1986, p. 327. Stukalina, 1991, p. 172, Pl. 43, fig. 1; Fig. 14, no. b. Webster, 1993, p. 129. Stukalina, 1994, p. 57, Fig. 1, no. 8. Stukalina, 1995b, p. 75, Fig. 1, no. 8.
Late Silurian - Early Devonian, Karaespin Horizon, lower part of Rekovian Beds; Kokbaital Horizon. Russia, Aksarli Mountains; Kazakhstan, Salair

Anthinocrinus minimus Yeltyschewa and Dubatolova, 1967, p. 42, Pl. 5, figs. 7-9 (*non* figs. 7-8 as given in text); Fig. 18. Modzalevskaya, 1967, Pl. 4, fig. 20. Yeltyschewa, 1969, p. 161, Pl. 41, fig. 3. Webster, 1973, p. 278. Webster, 1977, p. 185. Rakhmonov, 2008, p. 251, Pl. 109, figs. 17-18.
Devonian, Eifelian, Jmatchinsk Suite. Russia, Upper Amur Basin
Devonian, Eifelian, Khodzhakkurgan Formation, Novikhushk Beds. Uzbekhistan, Zeravshan Range

Anthinocrinus orientalis Rakhmonov, 2008, p. 251, Pl. 109, figs. 14-16.
Devonian, Eifelian, Khodzhakurgan Formation, Uzbekistan, Zeravshan Range

Anthinocrinus petalatus Yeltyschewa and Dubatolova, 1967, p. 43, Pl. 4, fig. 10; Fig. 19. Modzalevskaya, 1967, Pl. 4, fig. 20. Yeltyschewa, 1969, p. 161, Pl. 41, figs. 6-8. Webster, 1973, p. 278. Webster, 1977, p. 186.
Middle Devonian, Jmatchinskian Suite. Russia, Upper Amur Basin

Anthinocrinus podolicus Yeltyschewa, 1968, p. 39, Pl. 5, figs. 26-29. Webster, 1973, p. 278. Yeltyschewa and Stukalina, 1977, p. 213, Pl. 4, figs. 1-6. Gluchowski, 1981a, p. 101, Fig. 3. Gluchowski, 1981b, p. 37, Pl. 1, figs. 14-16. Webster, 1986, p. 327. Stukalina, 1988c, p. 47, Fig. 29, no. 2. Webster, 1988, p. 171. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 292, Pl. 108, figs. 6-8. Webster, 1993, p. 129. Stukalina, 1994, p. 57, Fig. 1, no. 4. Stukalina, 1995a, p. 75, Fig. 1, no. 4.
Silurian, Ludlovian, Skalskian Horizon; Greven Horizon, Karpov Layer; Podlasian, Rzepin Formation. Russia, Vaigach, Upper Priamur; Poland

Anthinocrinus primaevus Sisova *in* Dubatolova, Yeltyschewa, and Modzalevskaya, 1967. Dubatolova, 1971, p. 35, figs. 11-16; Fig. 9. Stukalina, 1971, p. 194, Pl. 2, fig. 3. Yeltyschewa and Sisova, 1973, p. 88, Pl. 1, figs. 13-14; Fig. 1. Webster, 1973, p. 278. Webster, 1977, p. 186. Dubatolova, 1980, p. 117, Pl. 16, figs. 1-3; Fig. 10. Dubatolova, 1984, p. 112, Pl. 13, figs. 3-4; Fig. 2. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 11. Webster, 1986, p. 327. Dubatolova, 1988, p. 66, Pl. 14, figs. 1-5, Fig. p. 68, no. A. Webster, 1988, p. 171. Gluchowski, 1993a, p. 48, Fig. 8, no. G. Webster, 1993, p. 129. Kurilenko *in* Kurilenko et al., 2002, p. 152, Pls. 58, figs. 13-18; 60, figs. 15-16.
Anthinocrinus primevus Sisova *in* Dubatolova, Yeltyschewa, and Modzalevskaya, 1967, p. 39, Pl. 4, figs. 166-18.
Anthinocrinus aff. *floreus* Yeltyschewa *in* Dubatolova, 1964, p. 59, Pl. 7, figs. 13-15. Webster, 1973, p. 278. Dubatolova, 1980, p. 117. Webster, 1986, p. 327.
Anthiocrinus cf. *primaevus* Sisova *in* Dubatolova, 1967, p. 35, Pl. 6, figs. 8-9; Fig. 2. Webster, 1973, p. 278. Dubatolova, 1980, p. 117. Webster, 1986, p. 327.
Devonian, Lochkovian, Ainasu Horizon; Middle Devonian, Eifelian - Givetian, Ilinskaya Suite; upper part of Beloubin Suite; Vechernin Suite; Kriukov Suite; Losishin Suite; Laskowa Gora Beds; Szydlowek Beds; Jazwica Member. Russia, Upper Priamur, Kazakhstan, Far East Transbaikal, Altai Mountains, Omulev Mountains. Poland

Anthinocrinus primevus Sisova *in* Dubatolova, Yeltyschewa, and Modzalevskaya, 1967 = *A. primaevus*

Anthinocrinus cf. *primaevus* Sisova *in* Dubatolova, 1967 = *Anthinocrinus primaevus*

Anthinocrinus quinqueangularis Dubatolova, 1964 = *Facetocrinus quinqueangularis* = *Blandicrinus quinqueangularis*

Anthinocrinus quinquefidus Dubatolova, 1968, p. 148, Pl. 15, figs. 8-9; Fig. 6. Webster, 1973, p. 278.
Devonian, Tom-Chumskian Horizon, lower part of Rekovian Beds. Russia, Salair

Anthinocrinus radialis Stukalina, 1975, p. 142, Pl. 34, figs. 2-6. Stukalina, 1978a, p. 55, Pl. 13, fig. 9. Stukalina, 1986, p. 69, Pl. 15, figs. 2-7. Webster, 1986, p. 327. Stukalina, 1988c, p. 63, Pl. 11, figs. 15-18. Stukalina, 1991, p. 173, Pl. 43, figs. 2-6; Fig. 14, nos. v-g. Webster, 1993, p. 129. Stukalina, 1994, p. 57, Fig. 1, nos. 5-6. Stukalina, 1995a, p. 75, Fig. 1, nos. 5-6. Kurilenko *in* Kurilenko et al., 2002, p. 1511, Pl. 54, fig. 12.
Late Silurian - Early Devonian, middle Lochkovian, transition beds, Ainasu Horizon; Kokbaital Horizon; Pribalkhash Horizon. Russia, Argunsky Region, Transbaikal; Central Kazkhstan

Anthinocrinus raricostatus Yeltyschewa and Dubatolova, 1967 = *Urushicrinus raricostatus*

Anthinocrinus rotundilobus Le Menn *in* Le Menn and Racheboeuf, 1976, p. 313, Pl. 31, figs. 13-15. Le Menn, 1985, p. 110, Pl. 24, figs. 11-15. Webster, 1986, p. 328. Webster, 1988, p. 171.
Devonian, late Pragian (late Siegenian), Montguyon Formation. France, Armorican Massif

Anthinocrinus rozmanae Stukalina, 1994, p. 59, Pl. 9, fig. 5; Fig. 1, no. 1. Stukalina, 1995a, p. 79, Pl. 9, fig. 5; Fig. 1, no. a.
Silurian, Wenlockian/Ludlovian boundary beds. Southern Mongolia

Anthinocrinus sangulus Schewtschenko, 1966 = *Facetocrinus sangulus*

Anthinocrinus spinonodosus Le Menn *in* Le Menn *et al.*, 1976, p. 51, Pl. 9, figs. 1-3. Le Menn, 1981, p. 271. Le Menn, 1985, p. 111, Pl. 24, figs. 16-20. Webster, 1986, p. 328. Webster, 1988, p. 171.
Devonian, Emsian, Grauwacke du Faou Formation, Foulerie Formation, Marettes Formation, Reun ar C'Hrank Formation; Montguyon Formation. France, Armorican Massif

Anthinocrinus subisodentatus Dubatolova, 1971 = *Facetocrinus subisodentatus*

Anthinocrinus substellaris Yeltyschewa and Stukalina, 1977, p. 214, Pl. 4, fig. 7. Webster, 1986, p. 328.
Late Silurian, upper part of Khatanzeisk Horizon. Russia, Vaigach

Anthinocrinus terminalis Schewtschenko, 1966 = *Facetocrinus terminalis*

Anthinocrinus tuvaensis Yeltyschewa, 1982, p. 171, Pl. 2, figs. 8-10. Webster, 1988, p. 171. Stukalina, 1994, p. 57, Fig. 1, no. 2. Stukalina, 1995a, p. 75, Fig. 1, no. 2.
Late Silurian, Baital Suite, Pichisha Layer. Russia, Tuva

Anthinocrinus urkaensis Yeltyschewa and Dubatolova, 1967, p. 46, Pl. 5, figs. 1-2. Webster, 1973, p. 279.

Mississippian. Russia, Upper Priamur

Anthinocrinus wenjukowi Yeltyschewa *in* Yeltyschewa and Stukalina, 1977= *Wenjukowicrinus wenjukowi*

Anthinocrinus spp.
Ebert, 1994, p. 32, Figs. 26-27, 60, no. c; 72, 74.
Devonian, late Emsian, Brachtpe Formation. Germany
Gluchowski, 2002, p. 322, Fig. 2, no. D.
Devonian, Famennian, *Pa. triangularis* to *Pa. marginifera* Biozones. Poland
Franke, C., 2012, p. 55, Pl. 26, figs. 1-2.
Devonian, Emsian, Mulden group. Germany, Rhenischen Schiefergebirge

ANULOCRINUS Ramsbottom, 1961.
Recognized number of named columnal species: 1 Ordovician Sandbian – Katian species
Ordovician, Sandbian - Katian. United Kingdom, Scotland

**Anulocrinus thraivensis* Ramsbottom, 1961. Donovan, 1986d, p. 30, Pl. 1, figs. 7, 12; Fig. 13, no. A. Webster, 1993, p. 130.
Ordovician, Sandbian - Katian, Ladyburn Starfish Bed. United Kingdom, Scotland

AONODISCUS Le Menn *in* Chauvel and Le Menn, 1973. **A. spinosus* Le Menn *in* Chauvel and Le Menn, 1972.
Le Menn *in* Chauval and Le Menn, 1973, p. 45. Webster, 1977, p. 186. Webster, 1986, p. 328.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. France, Argol; Italy, Sardinia

**Aonodiscus spinosus* Le Menn *in* Chauvel and Le Menn, 1973, p. 46, Pl. 2, figs. 5-7. Le Menn *in* Chauvel, Melendez and Le Menn, 1975, p. 360, Pl. 3, figs. 9-10. Webster, 1977, p. 186. Webster, 1986, p. 328. Botquelen, Le Menn, and Loi, 2006, p. 21, Fig. 3, no. 12.
Ordovician, Katian, Rosan Foration; Tuviois Formation. France, Argol; Italy, Sardinia

Aonodiscus cf. *spinosus* Le Menn, 1973. Botquelen, Le Menn, and Loi, 2006, p. 21, Fig. 3, no. 12.
Ordovician, Katian, Tuviois Formation. Sardinia

Aorocrinus parvus (Shumard, 1855) = *Orocrinus parvus*

APERTOCRINUS Stukalina, 1968. **A. apertus* Yeltyschewa and Stukalina *in* Stukalina, 1968.
Stukalina, 1968c, p. 83. Stukalina, 1970b, p. 74. Webster, 1973, p. 279. Webster, 1977, p. 186. Jeffords *in* Moore and Teichert, 1978, p. T932. Hynda, 1986, p. 79. Stukalina, 1986, p. 52. Donovan, 1986d, p. 58. Webster, 1993, p. 130.
Recognized number of named columnal species: 3 species. 2 Ordovician, 1

Darrilian, 1 Darriwilian – Katian; 1 Silurian, Llandelian
Ordovician, Katian. Russia, United Kingdom

**Apertocrinus apertus* Yeltyschewa and Stukalina *in* Stukalina, 1968c, p. 84, Fig. 2, nos. a-b. Stukalina, 1970b, p. 75, Figs. 2, nos. a-b. Webster, 1973, p. 279. Webster, 1977, p. 186. Stukalina, 1986, p. 27, Fig. 9, no. 1. Webster, 1993, p. 130.
Ordovician. Darriwilian - Katian, Russia, Kazakhstan, Siberian Platform

Apertocrinus verrucosus Hynda, 1986, p. 79, Pls. 12, figs. 12-13; 13, figs. 1-2; Fig. 27. Webster, 1993, p. 130.
Ordovician, Darriwilian, Molodov Suite. Russia, Southwestern Eastern European Platform

Apertocrinus vulgaris Stukalina, 1986, p. 33, Fig. 13, no. 6 (*nomen nudum*), no description. Webster, 1993, p. 130.
Silurian, Llandeilian. Russia

Apertocrinus sp. Donovan, 1986d, p. 58, Pl. 3, figs. 8-9. Webster, 1993, p. 130.
Ordovician, Sandbian, Birdshill Limestone Formation. United Kingdom

APIASTRUM Moore and Jeffords, 1968. **A. candidum* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 58. Webster, 1973, p. 279. Jeffords *in* Moore and Teichert, 1978, p. T932. Webster. 1986, p. 328. Webster, 1988, p. 171.
Recognized number of named columnal species: 2 species. 1 Ordovician, Katian; 1 Devonian, Lochkovian
Ordovician, Katian, Nabala Horizon. Russia
Devonian, Lochkovian (Helderbergian). United States, Tennessee

**Apiastrum candidum* Moore and Jeffords, 1968, p. 58, Pls. 10, fig. 9; 11, figs. 2-3. Webster, 1973, p. 279.
Devonian, Lochkovian (Helderbergian), Birdsong Shale. United States, Tennessee

Apiastrum aff. *candidum* Moore and Jeffords, 1968. Gluchowski, 1981b, p. 432, Pl. 3, fig. 1. Webster, 1988, p. 171.
Devonian, Givetian, Skaly Beds. Poland

Apiastrum unicum Yeltyschewa, 1979, p. 101, Pl. 1, fig. 16. Webster, 1986, p. 328.
Ordovician, Katian, Nabala Horizon. Russia

Apiocrinites rosaceus Castelnau, 1843, p. 51, Pl. 25, fig. 12.
Given as Silurian, probably Devonian. United States, New York

APLETOANTERIS Webster and Delattre, 1993. **A. bajaensis* Webster and Delattre, 1993, OD.
Webster and Delattre, 1993, p. 93.
Recognized number of named columnal species: 1 Permian, Leonardian species
Permian, Leonardian. Mexico, Baja Penninsula

**Apletoanteris bajaensis* Webster and Delattre, 1993, p. 93, Figs. 3.1-3.14.
Permian, Leonardian, Zamora Formation. Mexico, Baja Penninsula

APORRETOCRINUS Dubatolova, 1971. **Entrochus ligatus* Quenstedt, 1876.
Dubatolova, 1971, p. 65. Webster, 1977, p. 186. Jeffords *in* Moore and Teichert,
1978, p. T932. Webster, 1993, p. 130.
APPORETOCRINUS Stukalina, 1986, p. 79. Webster, 1986, p. 328.
Recognized number of named columnal species: 2 Devonian species, 1 Esrly Devonian, 1 Early to Middle Devonian
Early - Middle Devonian. Russia, Salair; Germany

**Aporretocrinus ligatus* (Quenstedt, 1876). Dubatolova, 1971, p. 65. Webster, 1977, p. 187.
Entrochus ligatus Quenstedt, 1876. Yeltyschewa and Dubatolova, 1961, p. 556, Pl. D-87, fig. 9. Dubatolova, 1964, p. 74. Webster, 1973, p. 308. Webster, 1977, p. 187.
Pentagonocyclicus ligatus (Quenstedt, 1876). Dubatolova, 1964, p. 74, Pl. 10, figs. 4-6. Milicina, 1970, p. 102, Pl. 28, fig. 7; Fig. 11 (listed as *P.* cf. *ligatus* on plate explanation, p. 189). Dubatolova, 1971, p. 65. Webster, 1973, p. 308. Webster, 1977, p. 187.
Early - Middle Devonian. Russia, Northeastern Salair, Southwestern Tien-Shan, Ural Mountains, Kuznetz Basin, Salair; Germany

Aporretocrinus verrucatus Milicina, 1977a, p. 143, Pl. 59, fig. 6.
Apporetocrinus verrucatus (Milicina, 1977). Webster, 1986, p. 328 (sic).
Early Devonian, Vizhaich Horizon. Russia, Ural Mountains

APPORETOCRINUS Stukalina, 1986 = ***APORRETOCRINUS***

Apporetocrinus verrucatus (Milicina, 1977) = *Aporretocrinus verrucatus*

ARACHNOCRINUS Meek and Worthen, 1866.
Devonian. Givetian. North America

Arachnocrinus? sp. no. 1 Fraunfelter, 1974, p. 16, Pl. 2, fig. 12. Webster, 1986, p. 329.
Devonian, Givetian, Lingle Limestone. United States, Illinois

ARAGONOCRINUS Le Menn, 1988. **A. molinoensis* Le Menn, 1988.
Le Menn, 1988a, p. 3. Webster, 1993, p. 130.
Recognized number of named columnal species: 1 Devonian, Emsian species
Devonian, late Emsian. Spain

**Aragonocrinus molinoensis* Le Menn, 1988a, p. 3, Pl. 1, figs. 1-14; Figs. 1-3. Webster, 1993, p. 130.
Devonian, late Emsian, Ramblar Formation. Spain, Aragon

ARAXICRINUS Stukalina, 1999. **Araxicrinus papillaris* Stukalina, 1999
Stukalina, 1999a, p. 21. Stukalina, 1999b, p. 141.
Recognized number of named columnal species: 4 Permian species, 2 Dzhulfian, 1 Zechstein, 1 series uncertain
Permian, early Dzhulfian. Russia, Transcaucasia, southern Primorye
Pemian, Zechstein. Poland
Late Permian. China

Araxicrinus chanceensis (Dubatolova and Shao, 1959). Stukalina, 1999a, p. 21. Stukalina, 1999b, p. 141.
Cyclocyclicus chaneensis Dubatolova and Shao, 1959, p. 53, Pl. 2, fig. 6 (typographical error as *C. chanensis* on plate explanation). Webster, 1973, p. 285.
Late Permian. China, Hunan Province

Araxicrinus convexus Stukalina, 1999a, p. 21, Pl. 2, fig. 9. Stukalina, 1999b, p. 141, Pl. 2, fig. 9.
Permian, Dzhulfian, lower part of Lyudyanzin Horizon. Russia, southern Primorye

Araxicrinus mui (Dubatolova and Shao, 1959). Stukalina, 1999a, p. 21. Stukalina, 1999b, p. 141.
Cyclocyclicus mui Dubatolova and Shao, 1959, p. 54, Pl. 2, fig. 9. Dubatolova and Yeltyschewa, 1969, p. 66. Webster, 1973, p. 285. Webster, 1977, p. 190. Gluchowski, 1981b, p. 52, Pl. 5, fig. 12. Webster, 1988, p. 181.
Bicostulatocrinus? mui (Dubatolova and Shao, 1959). Dubatolova and Yeltyschewa, 1969, p. 66. Webster, 1977, p. 190.
Late Permian. China, Hunan, Kwangtung, and Sychuan Provinces
Permian, Zechstein. Poland

**Araxicrinus papillaris* Stukalina, 1999a, p. 21, Pl. 2, figs. 10-13. Stukalina, 1999b, p. 143, Pl. 2, figs. 10-13.
Permian, early Dzhulfian. Russia, Transcaucasia

Archaeocrinid stem Lewis, 1982, p. 64, Pl. 3, figs. 34-35. Webster, 1988, p. 171.
Ordovician, Sandbian, Bromide Formation, Pooleville Member. United States, Oklahoma

ARENARIOCRINUS Yeltyschewa and Sisova *in* Dubatolova and Yeltyschewa, 1969.
**Cyclocylicus arenarius* Yeltyschewa and Schewtschenko, 1960.
Yeltyschewa and Sisova *in* Dubatolova and Yeltyschewa, 1969, p. 62 (incorrectly listed type species as *Pentagonocyclicus arenarius*). Skoropisceva, 1969, p. 44. Webster, 1977, p. 187. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 6 species, 4 subspecies.1 Devonian, Frasnian species; Mississippian, 1 Viséan (+3 Viséan subspecies), 1 Viséan, Early Permian, 1 Mississippian series uncertain (+1 subspecies, series uncertain), 2 Middle – Late Mississippian, series uncertain

Late Devonian - Permian. Russia, China

**Arenariocrinus arenarius* (Yeltyschewa and Schewtschenko, 1960). Yeltyschewa and Sizova *in* Dubatolova and Yeltyschewa, 1969, p. 62. Skoropisceva, 1969, p. 46, Pls. 4, fig. 4; 6, figs. 6a-6b; 7, fig. 1. Webster, 1977, p. 187. Webster, 1986, p. 365.

Cyclocyclicus arenarius Yeltyschewa and Schewtschenko, 1960, p. 119, Pl. 1, figs. 10, 12-15. Skoropisceva, 1969, p. 44. Webster, 1973, p. 284.Webster, 1977, p. 187.

Pentagonocylicus arenarius (Yeltyschewa and Schewtschenko, 1960). Yeltyschewa and Sizova *in* Dubatolova and Yeltyschewa, 1969, p. 62. Webster, 1977, p. 187.

Lomalegnum arenarius (Yeltyschewa and Schewtschenko, 1960). Yeltyschewa and Polyarnaya, 1975, p. 206, Pl. 95, figs. 5-6. Webster, 1986, p. 365.

Mississippian, Viséan. Russia, Southern Ural Mountains

Mississippian - Early Permian. Russia, Verkhoyane, Spitzbergen, Taymyr, Tien Shan Mountains

Arenariocrinus arenarius carinatus Yeltyschewa and Dubatolova *in* Dubatolova and Yeltyschewa, 1969, p. 63, Pl. 16, figs. 1-3. Webster, 1977, p. 187.

Mississippian. Russia, Armenia

Arenariocrinus arenarius cingulatus (Yeltyschewa and Schewtschenko, 1960). Webster, 1977, p. 187.

Cyclocyclicus arenarius var. *cingulatus* Yeltyschewa and Schewtschenko, 1960, p. 120, Pl. 1, figs. 6-7. Webster, 1973, p. 285. Webster, 1977, p. 187.

Pentagonocyclicus arenarius cingulatus (Yeltyschewa and Schewtschenko, 1960). Dubatolova and Yeltyschewa, 1969, p. 62.

Mississippian, Viséan. Russia, Tien Shan Mountains

Arenariocrinus arenarius granulosus (Yeltyschewa and Schewtschenko, 1960). Dubatolova and Yeltyschewa, 1969, p. 62. Webster, 1977, p. 187.

Cyclocyclicus arenarius var. *granulatus* Yeltyschewa and Schewtschenko, 1960, p. 121, Pl. 2, figs. 1-2, 5-8, 11 (*non* fig. 9 as given in text). Dubatolova and Yeltyschewa, 1969, p. 62. Webster, 1973, p. 285. Webster, 1977, p. 187.

Mississippian, Viséan. Russia, Tien Shan Mountains

Arenariocrinus arenarius ordinatus (Yeltyschewa *in* Dubatolova and Shao, 1959). Dubatolova and Yeltyschewa, 1969, p. 62. Webster, 1977, p. 188.

Cyclocyclicus arenarius var. *ordinata* Yeltyschewa *in* Dubatolova and Shao, 1959, p. 54, Pl. 2, fig. 8. Webster, 1973, p. 286. Webster, 1977, p. 188.

Pentagonocyclicus arenarius ordinatus (Yeltyschewa, 1959). Dubatolova and Yeltyschewa, 1969, p. 62.

Mississippian, Viséan. China, Hunan Province

Arenariocrinus areniferus Yeltyschewa and Dubatolova *in* Dubatolova and Yeltyschewa,
1969, p. 64, Pl. 16, fig. 4. Skoropisceva, 1969, p. 45, Pl. 6, fig. 6. Webster, 1977, p. 188.
Devonian, Frasnian, Early Permian. Russia. Armenia, Verkhoyane, Nova Zemlya

Arenariocrinus hissariensis (Yeltyschewa and Schewtschenko, 1960). Dubatolova and Yeltyschewa, 1969, p. 62. Webster, 1977, p. 188.
Cyclocyclicus hissariensis Yeltyschewa and Schewtschenko, 1960, p. 122, Pl. 1, figs. 8-9. Webster, 1973, p. 285. Webster, 1977, p. 188.
Pentagonocyclicus hissariensis (Yeltyschewa and Schewtschenko, 1960). Dubatolova and Yeltyschewa, 1969, p. 62.
Mississipppian. Russia, Tien Shan Mountains

Arenariocrinus incrustatus Skoropisceva, 1969, p. 44, Pl. 6, figs. 1-2 (incorrectly given as Pl. 6, fig. 2, p. 44); Pl. 6, fig. 6d. Webster, 1977, p. 188.
Middle - Late Carboniferous. Russia, Verkhoyane, central Taymyr, Spitzbergen

Arenariocrinus mirandus (Yeltyschewa *in* Dubatolova and Shao, 1959). Dubatolova, and Yeltyschewa, 1969, p. 62. Webster, 1977, p. 188.
Cyclocyclicus mirandus Yeltyschewa *in* Dubatolova and Shao, 1959, p. 46, Pl. 1, fig. 12; Unnum. Fig. Webster, 1973, p. 285. Webster, 1977, p. 188.
Pentagonocyclicus mirandus (Yeltyschewa *in* Dubatolova and Shao, 1959). Dubatolova and Yeltsychewa, 1969, p. 62.
Mississippian, Viséan. China, Hunan and Kwangtung Provinces

Arenariocrinus mussalitini Skoropisceva, 1969, p. 46, Pl. 4, fig. 2. Webster, 1977, p. 188.
Middle - Late Carboniferous. Russia, Verkhoyane

Arenariocrinus rugosus (Yeltyschewa and Schewtschenko, 1960) = *Graphosterigma rugosus*

Artejos de crinioides Larrauri y Mercadillo, 1944, Pl. 7, fig. 3. Webster, 1973, p. 325.
Devonian. Spanish Sahara

ARTHROACANTHA Williams, 1883.
Recognized number of named columnal species: 1 Devonian, Emsian species
Devonian, late Emsian. Germany

Arthroacantha eupelmatus Schmidt, 1915. Hauser, 2003, p. 15.
Devonian, late Emsian, Hunrückschiefer. Germany

Arthroacantha? spp.
Termier, G. and Termier, H., 1950, p. 85, Pls. 213, figs. 16-21; 224, figs. 48-49. Webster, 1973, p. 279.
Early-Middle Devonian. Morocco
Termier, G. and Termier, H., 1950, p. 214, Pl. 215, figs. 21-22. Webster, 1973, p.

279.
Devonian, Emsian. Morocco

Cf. *Arthroacantha?* sp. Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 33-34. Webster, 1973, p. 279.
Devonian, Pragian (Siegenian). Morocco

Articles d'un meme genre Yakovlev, 1930a, p. 100, Pl. 1, figs. 8-10, 14.
Permian, Artinskian. Russia, Ural Mountains

Articles d'un tige d'un meme genre Yakovlev, 1930a, p. 100, Pl. 1, figs. 12-13, 15-17.
Permian, Artinskian. Russia, Ural Mountains

Articulated column Meyer, Ausich, and Terry, 1990, p. 545, Fig. 9, no. D. Webster, 1993, p. 130.
Mississippian, Viséan (Osagean), Fort Payne Formation. United States, Kentucky

ARTICULORAMUS Donovan, 1995. **A. montgomeryensis* Donovan, 1995.
Donovan, 1995b, p. 127.
Recognized number of named columnal species: 1 Ordovician Darriwilian species
Ordovician, Darriwilian (late Llandeilian). United Kingdom

**Articuloramus montgomeryensis* Donovan, 1995b, p. 127, Pl. 18, fig. 1; Fig. 43, nos. A-B.
Ordovician, Darriwilian (late Llandeilian), Calcareous Ash. United Kingdom

ARTIFICIOSOCRINUS Stukalina and Yeltyschewa, 1982. **Pentagonopentagonalis artificiosus* Yeltyschewa, 1964.
Stukalina, 1982a, p. 187. Stukalina, 1986, p. 58. Webster, 1988, p. 171. Webster, 1993, p. 131.
Recognized number of named columnal species: 1 Ordovician, Dapingian – Darriwilian species
Ordovician, Dapingian - Darriwilian. Estonia

**Artificiosocrinus artificiosus* (Yeltyschewa, 1964). Stukalina, 1982a, p. 187. Stukalina, 1986, p. 58, Pl. 10, fig. 6. Stukalina, 1988c, p. 57, Pl. 3, fig. 24. Webster, 1988, p.
172. Webster, 1993, p. 131.
Pentagonopentagonalis artificiosus Yeltyschewa, 1964a, p. 69, Pls. 3, fig. 27; 4, fig. 22. Webster, 1973, p. 312. Webster, 1988, p. 171.
Ordovician, Dapingian – Darriwilian, Kunda Horizon. Estonia

ASAPHOCRINUS Springer, 1920.
Recognized number of named columnal species: 1 Silurian, Wenlockian species
Silurian, Wenlockian. United States, New York

Asaphocrinus ornatus (Hall, 1852). Brett, 1981b, p. 348, Fig. 3, no. C. Webster, 1988, p. 172.

Silurian, Wenlockian, Rochester Shale. United States, New York

ASCARUM de Gregorio, 1930. **A. montanum* de Gregorio, 1930.
de Gregorio, 1930, p. 42. Bassler, 1938, p. 45. Bassler and Moodey, 1943, p. 311 (unrecognizable fragments). Moore and Laudon, 1943, p. 103. Jeffords *in* Moore and Teichert, 1978, p. T937 (columnal?).
Recognized number of named columnal species: 1 Permian, series uncertain
Permian. Sicily

**Ascarum montanum* de Gregorio, 1930, p. 42, Pl. 15, fig. 7. Bassler, 1938, p. 45. Bassler and Moodey, 1943, p. 312. Jeffords *in* Moore and Teichert, 1978, p. T937 (columnal?).
Permian. series uncertain. Sicily

ASPEROCRINUS Stukalina, 1975. **A. giganteus* Stukalina, 1975.
Stukalina *in* Levitskiy *et al.*, 1968 p. 69 (*nomen nudum*). Stukalina, 1975, p. 145. Le Menn *in* Le Menn *et al.*, 1976, p. 51. Jeffords *in* Moore and Teichert, 1978, p. T936. Stukalina, 1986, p. 80, 102, Fig. 31, nos. 2, 4. Webster, 1986, p. Stukalina, 1988c, p. 48, Fig. 30, nos. 2-3. Webster, 1988, p. 172. Webster, 1993, p. 131. Ebert, 1994, p. 57.
Recognized number of named columnal species: 12 Devonian species, 2 lochkovian – Pragian,1 Lochkovian - Givetian, 2 Pragian, 3 Emsian, 1 Eifelian, 2 Eiifelian – Givetian,1 Givetian - Frasnian
Devonian, Pragian. Purtugal,Czech Republic
Devonian, Lochkovian – Emsian. France
Devonian, Lochkovian – givetian. Poland; Kazakhstan
Devonian, Lochkovian –Frasnian. Russia
Devonian, Emsian. Germany

Asperocrinus annulatus Le Menn *in* Le Menn and Racheboeuf, 1976, p. 315, Pl. 31, figs. 10-12. Le Menn, 1985, p. 162, Pls. 35, figs. 19-21; 36, figs. 1-5; Fig. 65. Webster, 1986, p. 329. Le Menn, 1987b, p. 816, Fig. 6. Webster, 1988, p. 172. Webster, 1993, p. 131. Le Menn in Le Menn et al., 2002, p. 30, Pl. 2, figs. 20-22.
Devonian, Pragian (late Siegenian), Montguyon Formation. France, Armorican Massif
Devonian, Pragian, Monte das Russianas Formation. Portugal

Asperocrinus brevispinosus Gluchowski, 1993a, p. 62, 73, Fig. 12, no. K.
Devonian, Eifelian - Givetian, Skaly Beds; "Dabrowa Limestone"; *Stringocephalus* Beds; Dziewki Limestone. Poland

Asperocrinus dentatus (Quenstedt, 1874-1876). Kurilenko *in* Kurilenko et al., 2002, p. 161, Pls. 59, figs. 17-18; 60, figs. 12-14.
Devonian, Pragian-Eifelian. Russia, Vostochnogo Zabaikal

Asperocrinus echinatus Yeltyschewa and Stukalina *in* Stukalina, 1971, p. 197, Pl. 2, fig. 16 (*nomen nudum*). Skukalina, 1975, p. 145, Pl. 36, fig. 5. Webster, 1977, p. 188. Stukalina, 1978c, p. 56, Pl. 13, fig. 11. Gluchowski, 1981b, p. 48, Pl. 2,

fig. 14. Stukalina, 1986, p. 80, Pl. 20, figs. 2-3; Tab. 5. Webster, 1986, p. 329. Stukalina, 1988c, p. 65, Pl. 14, figs. 6-7; Fig. 31. Webster, 1988, p. 172. Stukalina, 1991, p. 197, Pl. 48, figs. 1-10; Fig. 19, nos. v-g. Webster, 1993, p. 131. Kurilenko *in* Kurilenko et al., 2002, p. 161, Pl. 55, figs. 7-10, 13-14.

Entrochus dentatus var. *echinata* Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961, p. 557, Pl. D-87, fig. 13. Webster, 1973, p. 306. Stukalina, 1975, p. 145. Webster, 1986, p. 329.

Entrochus dentatus echinata Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961. Dubatolova, 1971, p. 85. Webster, 1977, p. 200.

Pentagonocyclicus dentatus var. *echinata* (Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961). Dubatolova, 1964, p. 88, Pls. 12, fig. 12; 13, figs. 1-2. Webster, 1973, p. 306.

Pentagonocyclicus dentatus echinata (Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961). Dubatolova, 1971, p. 85. Webster, 1977, p. 200.

Cyclocyclicus echinatus Yeltsychewa *in* Stukalina, 1965b, p. 135, Pl. 2, figs. 3-4. Yeltyschewa, 1969, p. 166, Pl. 40, figs. 1-3. Webster, 1973, p. 285. Stukalina, 1975, p. 145. Webster, 1977, p. 195. Webster, 1986, p. 329.

Hexacrinites? dentatus echinatus Dubatolova, Yeltyschewa, and Modalevskaya, 1967, p. 26, Pl. 3, figs. 1-12; Fig. 13 (*non* Fig. 14 as given in text). Webster, 1973, p. 297. Stukalina, 1975, p. 145. Webster, 1986, p. 329. Milicina, 1989, p. 108, Pl. 1, fig. 11; Fig. 11. Webster, 1993, p. 164.

Fabalium rudocostatum Dubatolova, 1971, p. 85. Webster, 1977, p. 200.

Devonian, Lochkovian - Givetian, Ainasu Horizon; Pribalkhash Horizon; Kokbaital Horizon; Karpin Horizon; Skaly Beds: Russia, Central Ural Mountains, Kazakhstan, Upper Amur Basin, Kazakhstan, Pribalkhash; Poland

Devonian, Lochkovian. Russia, Vostochnogo Zabaikal

Devonian, Eifelian, Shandia Layer. Russia, Kuznetz Basin, Salair

Asperocrinus? gemmans (Waagen and Jahn, 1899). Prokop and Petr, 1990, p. 28.

Encrinites gemmans Waagen and Jahn, 1899, Pl. 79, figs. 19, no. 3-8 (only). Prokop and Petr, 1990, p. 27, 28. Webster, 1993, p. 131.

Devonian, Pragian, Dvorce-Prokop Limestone. Czech Republic

**Asperocrinus giganteus* Stukalina, 1971, p. 195 (*nomen nudum*). Stukalina, 1975, p. 145, Pl. 36, figs. 1-4. Webster, 1977, p. 189. Stukalina, 1986, p. 80, Tab. 5. Webster, 1986, p. 329. Stukalina, 1988c, p. 49, Fig. 31. Stukalina, 1991, p. 196, Fig. 19, nos. a-b. Webster, 1993, p. 131. Sorokoletov, 1996, p. 155, Fig. 2, no. c.

Devonian, Eifelian, upper part of Sardzhal - Kazakhstan Horizon. Kazakhstan

Asperocrinus longispinatus Le Menn, 1987a, p. 230, Pls. 1, fig. 10; 2, figs. 19-21; Figs. 7; 9, nos. D-E. Webster, 1993, p. 131.

Devonian, Lochkovian – Pragian (late Gedinnian – Siegenian}, Saint-Cenere Formation. France

Asperocrinus minimus Le Menn *in* Le Menn *et al.*, 1976, p. 51, Pls. 8, figs. 4-6; 9, fig. 13. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 315, unfig. Le Menn, 1981, p. 264, Pl. 32, figs. 19-23. Le Menn, 1985, p. 163, Pl. 36, figs. 12-19, Fig. 65.

Webster, 1986, p. 329. Le Menn, 1987b, p. 816, Pl. 3, fig. 24; Fig. 6. Webster, 1988, p. 172. Webster, 1993, p. 131. Ebert, 1994, p. 57, Figs. 59, no. a; 71, 74.
Devonian, Emsian, Reun ar C'Hrank Formation, Graywacke du Faou Formation. France, Armorican Massif
Devonian, late Emsian, *Orthocrinus* Formation. Germany

Asperocrinus aff. *minimus* Le Menn *in* Le Menn and Racheboeuf, 1976, p. 315, Pl. 28, figs. 18-20. Webster, 1986, p. 329.
Devonian, Emsian, Montguyon Formation. France, Amorican Massif

Asperocrinus multituberculatus (Le Menn, 1970). Le Menn *in* Le Menn and Racheboeuf, 1976, p. 314, Pl. 30, figs. 7-9. Le Menn, 1985, p. 163, Pl. 36, figs. 6-11; Fig. 65. Webster, 1986, p. 330. Le Menn, 1987b, p. 816, Fig. 6. Webster, 1988, p. 172. Webster, 1993, p. 131.
Hexacrinites? dentatus multituberculatus Le Menn, 1970a, p. 32, Pl. 5, figs. 1-3; Fig. 9. Webster, 1977, p. 202.
Devonian, early Emsian, Graywacke du Faou Formation, Montguyon Formation. France, Armorican Massif

Asperocrinus paucus Kurilenko, 2000, p. 122, Pl. 1, figs. 6-12. Kurilenko *in* Kurilenko et al., 2002, p. 160, Pl. 67, figs. 6-13. Kurilenko and Kulkov, 2008, p. 466, Fig. 4, nos. H, M.
Devonian, Givetian, Oldoy Horizon, - early Frasnian, Yakovlev F ormation. Russia, EasternTransbaikal

Asperocrinus radiatus Le Menn, 1980, p. 262, Pl. 36, figs. 1-4. Le Menn, 1985, p. 161, Pl. 35, figs. 14-18; Fig. 65. Webster, 1986, p. 330. Le Menn, 1987b, p. 817, Pl. 3, fig. 23, Fig. 6. Webster, 1988, p. 172. Webster, 1993, p. 131.
Devonian, Lochkovian – Pragian (late Gedinnian – Siegenian), l'Armorique Formation. France Armorican Massif

Asperocrinus cf. *radiatus* Le Menn, 1980. Le Menn in Le Menn et al., 2002, p. 30, Pl. 2, figs. 1-3.
Devonian, Pragian, lower part of Monte das Russianas Formation. Portugal

Asperocrinus uncitus Le Menn, 1985, p. 164, Pls. 36, figs. 20-23; 37, fig. 1; Fig. 65. Le Menn, 1987b, p. 816, Pl. 3, fig. 25, Fig. 6. Webster, 1988, p. 172. Webster, 1993,
p. 131.
Devonian, uppermost part of Emsian, Bolast Formation. France, Armorican Massif

Asperocrinus spp. Ebert, 1994, p. 22, fig. 12.
Devonian, Pragian - Emsian

Asperocrinus? sp. Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 326, Fig. 3, no. A.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia

ASPIDOCRINUS Hall, 1858.

Hall, 1858c, p. 178. Hall, 1859b, p. 122. Hall, 1861d, p. 122. Shumard, 1868, p. 355. Bigsby, 1868, p. 18. Zittel, 1880, p. 380. Miller, S. A., 1889, p. 225. Ehrenberg, 1929, p. 40. Bassler, 1938, p. 46. Bassler and Moodey, 1943, p. 312 (incrusting holdfast). Moore and Laudon, 1943b, p. 103. Webster, 1973, p. 279. Jeffords *in* Moore and Teichert, 1978, p. T932 (holdfasts). Seilacher and MacClintock, 2005, p. 227, Fig. 4, no. A.

Recognized number of named columnal species: 5 Devonian species, 4 Lochkovian, 1 Emsian

Devonian, Lochkovian, Emsian. United States

Aspidocrinus callosus Hall, 1859b, p. 125, Pl. 5, figs. 13-14. Shumard, 1868, p. 355. Bigsby, 1868, p. 18. Miller, S. A., 1889, p. 226. Goldring, 1923, p. 444, Pl. 59, figs. 10-12. Bassler and Moodey, 1943, p. 312.

Devonian, Lochkovian (Helderbergian), New Scotland Limestone. United States, New York

Aspidocrinus caroli Swartz, 1930, p. 52, Pl. 9, figs. 10-12. Bassler and Moodey, 1943, p. 312.

Devonian, Lochkovian (Helderbergian), Becraft Limestone, Giles Formation. United States, Virginia

Aspidocrinus digitatus Hall, 1859b, p. 123, Pl. 5, figs. 19-20. Shumard, 1868, p. 355. Bigsby, 1868, p. 18. Miller, S. A., 1889, p. 226. Goldring, 1923, p. 443, Pl. 59, figs. 8-9. Bassler and Moodey, 1943, p. 312. Ubaghs *in* Moore and Teichert, 1978, p. T88, Fig. 64, nos. 4-5. Brett, 1981b, p. 348, Fig. 3, no. A. Webster, 1986, p. 330. Webster, 1988, p. 172. Seilacher and MacClintock, 2005, p. 227, Fig. 4, no. D. Fearnhead, 2008, p. 51, Fig. 3, no. A.

Devonian Lochkovian (Helderbergian), New Scotland Limestone. United States, New York

Aspidocrinus onondagensis Goldring, 1923, p. 444, Pl. 59, fig. 13. Bassler and Moodey, 1943, p. 312.

Devonian, Emsian, Onondaga Limestone. United States, New York

**Aspidocrinus scutelliformis* Hall, 1859b, p. 122, Pl. 5, figs. 15-18. Shumard, 1868, p. 355. Bigsby, 1868, p. 18. Miller, S. A., 1889, p. 226. Goldring, 1923, p. 442, Pl. 59, figs. 6-7. Ehrenberg, 1929, p. 40, Figs. 29a-29b. Bassler, 1938, p. 46. Bassler and Moodey, 1943, p. 312. Ubaghs *in* Moore and Teichert, 1978, p. T88, Fig. 64, no. 3. Webster, 1986, p. 330. Seilacher and MacClintock, 2005, p. 227, Fig. 4, nos. B—C.

Devonian, Lochkovian (Helderbergian), New Scotland Limestone, Becraft Limestone.

United States, New York

Aspidocrinus sp. Howell, 1995, p. 99, Pl. 4, figs. 6-7.

No age or locality given.

Asteriocrinus? murchisoni (Münster, 1839) = *Asterocrinus murchisoni*

ASTEROCRINUS Münster, 1839.
Münster, 1831, p. 180. Münster, 1839, p. 4. d'Orbigny, 1850, p. 104. Bather *in* Lankester, 1900, p. 201. Bassler and Moodey, 1943, p. 313. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 4 species. 2 Ordovician, 1 Darriwilian, 1 series uncertain; 2 Devonian, 1 Frasnian, 1 *Orthoceras* Limetsone, series uncertain
Ordovician, Darriwilian; Devonian: Europe

Asterocrinus cingulatus Goldfuss, 1831 = *Actinocrinites cingulatus*

Asterocrinus moniliferus Goldufss, 1831 = *Actinocrinites moniliferus*

Asterocrinus munsteri Eichwald, 1840, p. 195 (German ed.), p. 207 (French ed.). Eichwald, 1860, p. 658, Pl. 31, figs. 61a-61c. Bigsby, 1868, p. 18. Bassler and Moodey, 1943, p. 313. Yeltyschewa, 1964a, p. 60, Pls. 1, figs. 23-28; 4, fig. 20. Webster, 1973, p. 279.
Ordovician, Darriwilian, Walchow Formation. Estonia
Ordovician, Darriwilian. Kazakhstan

**Asterocrinus murchisoni* Münster, 1839, p. 4, Pl. 16, fig. 7. Bassler, 1938, p. 46. Bassler and Moodey, 1943, p. 313.
Asteriocrinus? murchisoni Münster, 1839. Heller, 1926, p. 261 (sic).
Devonian, *Orthoceras* Limestone. Germany

Asterocrinus muricatus Goldfuss, 1832 = *Actinocrinites muricatus*

Asterocrinus nodulosus Goldfuss, 1832 = *Actinocrinites nodulosus*

Asterocrinus priscus Eichwald, 1840, p. 196 (German ed.), p. 208 (French ed). Bigsby, 1868, p. 18. Bassler and Moodey, 1943, p. 313.
Ordovician, series uncertain. Russia

Asterocrinus striatus Münster, 1840. d'Orbigny, 1850, p. 104.
Devonian, Frasnian. Germany

Asterocrinus tenuistriatus? Phillips, 1841 = *Actinocrinites tenuistriatus*

ASTEROMISCHUS Moore and Jeffords, 1968. **A. stellatus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 54. Webster, 1973, p. 279. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 2 Mississippian, Viséan species
Mississippian, Viséan (Chesterian). United States

**Asteromischus stellatus* Moore and Jeffords, 1968, p. 54, Pl. 9, figs. 1-3. Webster, 1973, p. 279.
Mississippian, Viséan (Chesterian), Paint Creek Formation. United States, Illinois

Asteromischus stellatus? Moore and Jeffords, 1968, p. 54, Pl. 8, fig. 11. Webster, 1973, p. 279.
Mississippian, Viséan (Chesterian), Paint Creek Formation. United States, Illinois

ASTROPORITES Lambe, 1896. **A. ottawaensis* Lambe, 1896.
Lambe, 1896, p. 1. Springer, 1911, p. 46. Bassler, 1938, p. 47. Bassler and Moodey, 1943, p. 313. Moore and Laudon, 1943b, p. 103. Webster, 1973, p. 279. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. North America

**Astroporites ottawaensis* Lambe, 1896, p. 1, Pl. 1, figs. 1-3. Ehrenberg, 1929, p. 59, Fig. 37. Bassler and Moodey, 1943, p. 313.
Ordovician, Katian, Trentonian, Hull Limestone, Curdsville Limestone. Canada, Ontario; United States, Kentucky

ASYMMETROCRINUS Donovan, 1987. **A. elleipticus* Donovan, 1987.
Donovan, 1987b, p. 255. Webster, 1993, p. 131.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Sweden

**Asymmetrocrinus elleipticus* Donovan, 1987b, p. 255, Figs. 1-2. Webster, 1993, p. 132.
Ordovician, Katian, Boda Limestone. Sweden, Isle of Gotland

ATACTOCRINUS Weller, 1916.
Ordovician, Katian. United States

Atactocrinus? species undetermined Moore and Jeffords, 1968, p. 37, Pl. 2, fig. 13. Webster, 1973, p. 279.
Ordovician, Katian (Cincinnatian), Fernvale Limestone. United States, Missouri, Minnesota, Iowa, Illinois

Attachment structure of crinoids Rozhnov, 1994b, p. 71, Pl. 6, figs. 1-4d. Rozhnov, 1995, p. 86, Pl. 6, figs. 1-4.
Ordovician, Floian – Darriwilian (Arenigian), Volkhov Horizon. Russia, St. Petersburg region

AULNOCRINUS Le Menn, 1970. **A. renaudae* Le Menn, 1970.
Le Menn, 1970a, p. 43. Webster, 1977, p. 189. Stukalina, 1986, p. 82. Webster, 1986, p. 330. Webster, 1988, p. 172. Webster, 1993, p. 132.
Recognized number of named columnal species: 3 Devonian species, 1, Lochkovian – early Emsiam, 1 late Emsian, 1 Eifelian
Devonian, Pragian (Siegenian) - Emsian. Russia, France

Aulnocrinus kasachstanensis Polozhichina, 1980, p. 117, Pl. 23, fig. 30. Stukalina, 1986, p. 82, Pl. 20, fig. 4. Webster, 1986, p. 330. Stukalina, 1991, p. 195, Fig. 18, no. d. Webster, 1993, p. 132.
Devonian, Eifelian, Sardzhal Horizon; lower part of Pribalkhash Horizon. Central Kazakhstan

Aulnocrinus personatus Le Menn, 1985, p. 109, Pl. 24, figs. 4-8. Webster, 1988, p. 172.
Devonian, late Emsian, La Grange Limestone. France, Armorican Massif

Aulnocrinus aff. *personatus* Le Menn, 1985. Gluchowski, 1993b, p. 165, Pl. 1, fig. 6.
Devonian, late Emsian, Zagorze Formation. Poland

**Aulnocrinus renaudae* Le Menn, 1970a, p. 43, Pl. 6, figs. 2-8; Figs. 10-11. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 311, Pl. 30, figs. 3-5. Webster, 1977, p. 189. Le Menn, 1985, p. 108, Pl. 24, figs. 1-3. Webster, 1986, p. 330. Webster, 1988, p. 172.
Devonian, Pragian (late Siegenian)-early Emsian, Graywacke du Faou Formation, Bois Roux Formation, Montguyon Formation. France, Armorican Massif

Aulnocrinus sp. Le Menn in Le Menn et al., 2002, p. 29, Pl. 2, fig. 18.
Silurian, Pridolian-early Lochkovian. Portugal

AUTUNIA Rusconi, 1955.
Rusconi, 1955, p. 3-64. Jeffords *in* Moore and Teichert, 1978, p. T932 (unrecognizable).
Cambrian or Ordovician. Argentina

AVICANTUS Moore and Jeffords, 1968. **A. dunbari* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 70. Webster, 1973, p. 279. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 1 Devonian, Lochkovian species
Devonian, Lochkovian (Helderbergian). United States

**Avicantus dunbari* Moore and Jeffords, 1968, p. 70, Pl. 20, figs. 4-6. Webster, 1973, p. 280.
Devonian, Lochkovian (Helderbergian), Birdsong Shale. United States, Tennessee

BABANICRINUS Stukalina, 1969. **B. tuberosus* Stukalina, 1969.
Stukalina, 1969, p. 211, Fig. 3, no. 3. Webster, 1977, p. 189. Jeffords *in* Moore and Teichert, 1978, p. T932. Hynda, 1986, p. 86. Stukalina, 1986, p. 64. Webster, 1986, p. 330. Webster, 1988, p. 172. Webster, 1993, p. 132.
Recognized number of named columnal species: 6 Ordovician species, 1 subspecies. 2 Darriwilian (+1 subspecies), 1 Sandbian, 3 Katian
Ordovician, Darriwilian - Katian. Baltic region
Ordovician, Sandbian – Katian. Kazakhstan

Babanicrinus kegelensis (Yeltyschewa, 1966) = **Virucrinus kegelensis* (see Part I)

Babanicrinus lacunosus Hynda, 1986, p. 88, Pls. 13, fig. 15; 14, figs. 1-4; Fig. 33. Webster, 1993, p. 132.
Ramulicrinus sp. Hynda, 1979, p. 70, Pl. 1, figs. 6-10; Fig. 4. Webster, 1986, p. 382.
Ramulicrinus sp. 1 Hynda, 1979. Hynda, 1986, p. 88. Webster, 1993, p. 132.
Ordovician, Sandbian, Idaver Horizon. Russia, Southwestern Eastern European Platform

Babanicrinus maximus Stukalina, 1969, p. 213, Pl. 1, figs. 11-12; Fig. 5. Webster, 1977, p. 189.
Ordovician, Katian. Central Kazakhstan, Chingiz

Babanicrinus partitus Hynda and Saladzhius, 1988, p. 50, Unnum. Pl., fig. 6; Fig. e. Webster, 1993, p. 132.
Ordovician, Katian, Svedasa Suite, Pirgu Horizon. Lithuania

Babanicrinus pentaporus (Eichwald, 1840). Stukalina, 1979a, p. 148. Stukalina, 1982c, p. 179, Fig. 10, no. 2. Webster, 1986, p. 330. Webster, 1988, p. 173.
Cupressocrinites pentaporus Eichwald, 1840, p. 171 (German ed.), p. 183 (French ed.). Eichwald, 1860, p. 600, Pl. 31, figs. 16a-16b, 55a-55b, 56a-56b. Bassler and Moodey, 1943, p. 38. Moore and Jeffords, 1968, p. 51. Webster, 1973, p. 290.
Cupressocrinus pentaporus Eichwald, 1840, p. 600, Pl. 31, figs. 16a-16b, 55a-56b. Stukalina, 1979a, p. 148. Webster, 1986, p. 330.
Dianthicoeloma pentaporus (Eichwald, 1840). Moore and Jeffords, 1968, p. 51, Pl. 7, fig. 4. Webster, 1973, p. 289.
Pentagonocyclicus pentaporus (Eichwald, 1840). Yeltyschewa, 1960, p. 18, Pl. 1, figs. 3-4; Yeltyschewa, 1964b, p. 75, Pl. 15, figs. 11-12. Webster, 1973, p. 290. Stukalina, 1979a, p. 148. Webster, 1986, p. 330.
Ordovician, Darriwilian, Krivolut Horizon; Volgin Horizon; *Orthocerus* Limestone. Russia, Siberian Platform
Ordovician, Darriwilian. Russia, St Petersburg region

Babanicrinus pentaporus tuberculata (Yeltyschewa, 1964)
Pentagonocyclicus pentaporus var. *tuberculata* Yeltyschewa, 1964a, p. 72, Pl. 3, figs. 18-22; 4, figs. 14-16. Webster, 1973, p. 290. Webster, 1993, p. 132.
Babanicrinus pentaporus var. *tuberculata* (Yeltyschewa, 1964). Stukalina, 1986, p. 65, Pl. 13, figs. 14-15. Stukalina, 1988c, p. 61, Pl. 8, figs. 8-9. Webster, 1993, p. 132.
Dianthicoeloma pentaporus var. *tuberculata* (Yeltyschewa, 1964). Webster, 1973, p. 290. Webster, 1993, p. 132.
Ordovician, Darriwilian, Kunda Horizon. Estonia

**Babanicrinus tuberosus* Stukalina, 1969, p. 212, Pl. 1, figs. 8-10; Fig. 4 (incorrectly given as Pl. 1, Fig. 10, p. 212). Webster, 1977, p. 189. Stukalina, 1986, p. 64, Pl. 13, fig. 13. Stukalina, 1988c, p. 61, Pl. 8, fig. 10. Webster, 1993, p. 132.
Ordovician, Katian, *Holorhynchus giganteus* Layers. Kazakhstan

Babanicrinus tumefactus Stukalina, 1985a, p. 188, Pl. 3, fig. 9. Webster, 1988, p. 173.
Ordovician, Sandbian, Anderken Horizon. Kazakhstan

Babanicrinus sp. Stukalina, 1980c, p. 171, Fig. 58, no. 4. Webster, 1986, p. 330.
Ordovician, Sandbian, Durban Horizon. Kazakhstan

"Babanicrinus" sp. Pisera, 1994, p. 288, Pl. 61, fig. 11.
Ordovician, Darriwilian, Llanvirnian, Mojcza Limestone. Poland, Holy Cross Mountains

BACTROCRINITES Schnur, 1849.
Haude, 1981, p. 188, Fig. 2, left.
Late Silurian - Middle Devonian. Europe; India; United States

Bactrocrinus? sp. Reed, 1908, p. 42, Pl. 6, fig. 12.
Devonian. India, Northern Shan States

BAKANASOCRINUS Stukalina and Tujutjan, 1970. **B. clavatus* Stukalina *in* Stukalina and Tujutjan, 1970.
Stukalina and Tujutjan, 1970, p. 59. Webster, 1977, p. 189. Jeffords *in* Moore and
Teichert, 1978, p. T932. Stukalina, 1986, p. 55. Webster, 1993, p. 132.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Kazakhstan

**Bakanasocrinus clavatus* Stukalina *in* Stukalina and Tujutjan, 1970, p. 59, Figs. 1, no. 6; 2. Webster, 1977, p. 189. Stukalina, 1986, p. 55, Pl. 8, figs. 7-8; Fig. 12, no. 2. Stukalina, 1988c, p. 58, Pl. 4, figs. 15-16; Fig. 24, no. 1. Webster, 1993, p. 132.
Ordovician, Katian, Dulankaren Horizon. Kazakhstan

BALACRINUS Ramsbottom, 1961.
Webster, 1993, p. 132.
Recognized number of named columnal species: 2 Ordovician species, 1 Sandbian – Katian, 1 Katian
Ordovician, Sandbian - Katian. United Kingdom

**Balacrinus basalis* (M'Coy, 1851). Donovan, 1986d, p. 47, Pls. 1, fig. 5; 4, fig. 5; Figs. 18, nos. A-C; 19. Webster, 1993, p. 132.
Ordovician, Katian. United Kingdom

Balacrinus cf. *basalis* (M'Coy, 1851). Donovan, 1986d, p. 47, Pl. 4, figs. 2-3. Webster, 1993, p. 133.
Ordovician, Katian. United Kingdom

Balacrinus inflatus Donovan, 1986d, p. 50, Pl. 1, fig. 13; Fig. 18, no. D. Webster, 1993, p. 133. Donovan, Paul, and Lewis, 1996, p. 217, Pl. 38, fig. 6.

Ordovician, Sandbian - Katian, Acton Scott Formation. United Kingdom

BALANOCRINUS Hall, 1861 = ***LAMPTEROCRINUS***

Balanocrinus erckerti (Dames, 1885). Romanovsky, 1890, p. 85, Pl. 14, figs. 7a-7b. (Not a *Balanocrinus*, GDW)
Age uncertain. Russia, Turkestan

BALTOCRINUS Stukalina, 1979. **Cyclopentagonalis balticus* Yeltyschewa, 1964. Stukalina, 1979b, p. 91, Fig. 1, nos. a-g. Stukalina, 1980c, p. 472, Fig. 1, nos. a-d. Hynda, 1986, p. 84. Stukalina, 1986, p. 64. Webster, 1986, p. 331. Webster, 1993, p. 133.
Recognized number of named columnal species: ;8 Ordovician species, 6 Darriwilian, 2 Sandbian
Ordovician, Darriwilian. Kazakhstan
Ordovician, Darriwilian - Sandbian. Estonia; Russia

Baltocrinus antiquus (Eichwald, 1860). Stukalina, 1979b, p. 92. Stukalina, 1980c, p. 473. Stukalina, 1986, p. 64, Pl. 12, figs. 9-12. Webster, 1986, p. 331. Stukalina, 1988c, p. 59, Pl. 6, figs. 4-7. Webster, 1993, p. 133.
Pentacrinus antiquus Eichwald, 1860, p. 577, Pl. 31, figs. 32a-32b (non figs. 24a-24b, 32c as given p. 577). Lessnikow, 1924, p. 171. Yeltyschewa, 1966, p. 57. Webster, 1973, p. 312. Stukalina, 1979b, p. 92. Stukalina, 1980c, p. 473. Webster, 1986, p. 331.
Pentagonopentagonalis antiquus (Eichwald, 1860). Yeltyschewa, 1966, p. 57, Pl. 2, figs. 23-26. Webster, 1973, p. 312. Stukalina, 1979b, p. 92. Stukalina, 1980c, p. 473.
Pentgonopentagonalis antiquus (Eichwald, 1860). Webster, 1986, p. 331 (sic).
Middle Ordovician, Darriwilian, Yikhva Horizon; Kunda? Horizon; Keila Horizon. Russia, St. Petersburg Region
Ordovician, Darriwilian, *Orthocerus* Limestone. Estonia

**Baltocrinus balticus* (Yeltyschewa, 1964). Stukalina, 1979b, p. 91. Stukalina, 1980c, p. 473. Stukalina, 1986, p. 64, Pl. 12, fig. 3. Webster, 1986, p. 331. Webster, 1993, p. 133.
Cyclopentagonalis balticus Yeltyschewa, 1964a, p. 76, Pl. 3, figs. 25-26. Webster, 1973, p. 287. Stukalina, 1979b, p. 91. Stukalina, 1980c, p. 473. Webster, 1986, p. 331.
Ordovician, *Darriwilian, Orthocerus* Limestone. Russia, Poulkowa in St. Petersburg region
Ordovician, Darriwilian, Kunda Horizon. Estonia

Baltocrinus cf. *balticus* (Yeltyschewa, 1964). Hynda, 1986, p. 84, Pl. 13, figs. 7-8, Fig. 30. Webster, 1993, p. 133.
Ordovician, Darriwilian, Kunda Horizon. Estonia, Southwestern Eastern European Platform

Baltocrinus decorus (Kutorga, 1846). Stukalina, 1988c, p. 60, Pl. 6, fig. 13. Webster, 1993, p. 133.
Ordovician, Darriwilian. Russia, St. Petersburg region

Baltocrinus gissarensis Stukalina, 1988 = *Cyclopentagonalis gissarensis*

Baltocrinus guttaeformis (Yeltyschewa, 1966). Stukalina, 1980c, p. 473. Webster, 1986, p. 331. Stukalina, 1993, p. 133.
Baltocrinus quttaeformis Yeltyschewa, 1966, p. 63, Pl. 3, figs. 1-2, 7-8. Webster, 1973, p. 287. Stukalina, 1979b, p. 92. Stukalina, 1988c, p. 59, Pl. 6, fig. 11; Fig. 27, no. 5. Webster, 1986, p. 331.
Cyclopentagonalis guttaeformis Yeltyschewa, 1966. Stukalina, 1979b, p. 92. Stukalina, 1980c, p. 474. Webster, 1986, p. 331.
Pentacrinus priscus Teichert, 1926, p. 524, Fig. 4 only. Stukalina, 1979b, p. 92. Stukalina, 1980c, p. 474. Webster, 1986, p. 331.
Ordovician, Sandbian, Idavere-Ykhvi Horizons. Estonia

Baltocrinus quttaeformis Yeltyschewa, 1966 = *Baltocrinus guttaeformis*

Baltocrinus hrevicaensis (Yeltyschewa, 1966). Stukalina, 1979b, p. 93. Stukalina, 1980c, p. 474. Stukalina, 1986, p. 64, Pl. 12, figs. 13-14. Webster, 1986, p. 331. Stukalina, 1988c, p. 59, Pl. 6, fig. 12. Webster, 1993, p. 133.
Cyclopentagonalis hrevicaensis Yeltsychewa, 1966, p. 63, Pl. 2, figs. 11-14. Stukalina, 1979b, p. 93. Stukalina, 1980c, p. 474. Webster, 1986, p. 331.
Cyclopentagonalis hrevicaenesis Yeltyschewa, 1966. Webster, 1973, p. 287 (sic).
Pentacrinus priscus Teichert, 1926, p. 524, Fig. 1 only. Stukalina, 1979b, p. 93. Stukalina, 1980c, p. 474. Webster, 1986, p. 331.
Ordovician, Sandbian, Ykhvi Horizon, Keila Horizon. Estonia

Baltocrinus kasachstanensis Stukalina, 1979b, p. 93, Fig. 2. Stukalina, 1980c, p. 474, Fig. 2. Webster, 1986, p. 331. Stukalina, 1988c, p. 60, Pl. 6, fig. 16. Webster, 1993, p. 133.
Ordovician, Darriwilian, Yerkebidaik Horizon. Kazakhstan

Baltocrinus lobatus (Eichwald, 1860) = *Cyclopentagonalis lobatus*

Baltocrinus rostovensis Stukalina, 1988c, Pl. 6, figs. 8-10 (*nomen nudum*), no description. Webster, 1993, p. 134.
Ordovician, Darriwilian?. Russia, East European Platform, Yaroslav region

Baltocrinus serratus (Yeltyschewa, 1966). Stukalina, 1979b, p. 92. Stukalina, 1980c, p. 473. Webster, 1986, p. 332.
Cyclopentagonalis serratus Yeltyschewa, 1966, p. 64, Pl. 2, figs. 1-4. Stukalina, 1979b, p. 92. Stukalina, 1980c, p. 473. Webster, 1986, p. 332.
Pentagonocyclicus serratus (Yeltsychewa, 1966). Webster, 1973, p. 310 (in error for *Cyclopentagonalis serratus*).
Ordovician, Darriwilian, Ykhaku Horizon. Estonia

Baltocrinus serratus? (Yeltyschewa, 1966). Hynda, 1986, p. 85, Pl. 13, fig. 9. Stukalina, 1986, p. 64, Pl. 12, fig. 8. Stukalina, 1988c, Pl. 6, fig. 2. Webster, 1993, p. 134.
Ordovician, Darriwilian, Kukruzek and Ykhaku Horizons. Russia, Southwestern Eastern European Platform, St. Petersburg Region

Baltocrinus sp. Stukalina, 1988c, p. 59, Pl. 6, fig. 3. Webster, 1993, p. 134.
Ordovician. Sandbian. Russia, Northwest East European Platform, St. Petersburg region

Baltocrinus sp. (*sp. nov*). Stukalina, 1986, p. 64, Pl. 12, Figs. 15-17. Webster, 1993, p. 134.
Ordovician, Darriwilian, Kukruzek Horizon. Russia, Yaroslav Region

BARRANDEOCRINUS Angelin, 1878.
Recognized number of named columnal species: 1 Silurian, Wenlockian species
Silurian, Wenlockian. Sweden

Barrandeocrinus sceptrum Angelin, 1878. Ubaghs *in* Moore and Teichert, 1878, p. T82, Fig. 60, nos. 1-2. Webster, 1986, p. 332.
Silurian, Wenlockian. Sweden, Isle of Gotland

Barycrinid? indet. Webster and Jell, 1992, p. 337, Figs. 12; 22, no. D.
Permian, late Sakmarian or early Artinskian, Callytharra Limestone. Australia, Western Australia, Carnarvon Basin

BARYCRINUS Wachsmuth *in* Meek and Worthen, 1868.
Webster, 1993, p. 134.
Recognized number of named columnal species: 2 species. 1 Mississipipan, Viséan, 1 Pennsylvanian, Missourian or Virgilian
Mississippian, Tournaisian - Viséan. Europe
Pennsylvanian, Missourian or Virgilian. United States

Barycrinus? aff. *B. herculeus* Meek and Worthen, 1868. Elias, 1957, p. 384, Pl. 41, figs. 1-2. Webster, 1973, p. 280. (not a *Barycrinus*, GDW)
Mississippian, Viséan (Chesterian), Redoak Hollow Formation. United States, Oklahoma

Barycrinus magister (Hall, 1858). Hollis and Ausich, 2009, p. 141, Fig. 6.
Mississippian, Viséan (late Osagean), Keokuk Limestone. United States, Iowa

Barycrinus subtumidus (?). Woodruff, 1906, p. 264, Pl. 7, fig. 10. (Not a *Barycrinus*, GDW).
Pennsylvanian, Missourian or Virgilian (Upper Coal Measures). United States, Nebraska

Barycrinus juvenile Hollis and Ausich, 2009, p. 138, Fig. 6.
Mississippian, Viséan (late Osagean), Edwardsville Formation. United States,

Indiana

Barycrinus pluricolumnal Hollis and Ausich, 2009, p. 141, Fig. 4.
Mississippian, Viséan (late Osagean), Edwardsville Formation. United States, Indiana

Barycrinus spp.
Sangil, 1955, p. 251, Fig. 2, no. A. Webster, 1973, p. 280.
No age given
Kammer, 1985a, p. 99, Fig. 10, nos. D, H. Webster, 1988, p. 173.
Mississippian, Viséan (Osagean). United States, Kentucky
Meyer, Ausich, and Terry, 1989, p. 545, Fig. 8, nos. A-C. Webster, 1993, p. 134.
Mississippian, Viséan (Osagean), Fort Payne Formation. United States, Kentucky
Donovan, 1989e, p. 34, Fig. 23. Webster, 1993, p. 134.
Mississippian. United Kingdom
Donovan, 1991c, p. 34, Fig. 23.
Mississippian. United Kingdom
Donovan, 1992c, p. 37, Fig. 5, nos. A-C.
Mississippian, Viséan (Chadian). United Kingdom, Scotland, Clitheroe area
Meyer *et al.*, 1995, p. 283, Fig. 10.
Mississippian, Viséan (Osagean), Fort Payne Formation. United States, Kentucky

BARYSCHYR Moore and Jeffords, 1968. **B. anosus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 64. Webster, 1973, p. 280. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 2 species. 1 Pennsylvanian, Atokan; 1 Permian, late Sakmarian or early Artinskian
Pennsylvanian, Atokan. United States
Permian, late Sakmarian or early Artinskian. Australia, Western Australia

**Baryschyr anosus* Moore and Jeffords, 1968, p. 64, Pls. 14, figs. 6-7; 15, figs. 7-11; 16, figs. 1-11. Moore *et al.*, 1968a, p. 11, Pl. 2, figs. 6-7. Webster, 1973, p. 280. Buitrón, Patiño, and Moreno, 1987, p. 130, Fig. 2.
Pennsylvanian, Atokan, Pumpkin Creek Limestone; Del Monte Formation. United States, Oklahoma; Mexico

Baryschyr? carnarvonensis Webster and Jell, 1992, p. 354, Fig. 22, nos. A-F.
Fragmented Crinoid stem Foord, 1890, p. 104, Pl. 4, fig. 11. Webster and Jell, 1992, p. 354.
Enlarged crinoid stem-portions Etheridge, 1903, p. 26, Pl. 4, figs. 1-9. Webster and Jell, 1992, p. 354.
Permian, late Sakmarian or early Artinskian, Callytharra Formation. Australia, Western Australia, Carnarvon Basin

BAZARICRINUS Stukalina, 1968. **B. bazarensis* Stukalina, 1968.
Stukalina, 1968c, p. 90. Stukalina, 1970b, p. 80. Stukalina, 1975, p. 142. Webster,

1977, p. 189. Jeffords *in* Moore and Teichert, 1978, p. T932. Stukalina, 1986, p. 68. Webster, 1986, p. 332. Webster, 1988, p. 173. Webster, 1993, p. 134.
Recognized number of named columnal species: 5 species, 4 Silurian, 1 Llandoverian, 1 Wenlockian, 1 Pridoli, 1 uncertain; 1 Devonian, Lochkovian
Silurian, Llandoverian, Wenlockian, Pridoli; Devonian, Lochkovian. Kazakhstan
Silurian, Llandoverian, Late Silurian, uncertain. Russia

**Bazaricrinus bazarensis* Stukalina, 1968c, p. 90, Fig. 2, no. z. Stukalina, 1970b, p. 80, Fig. 2, no. h. Webster, 1977, p. 189. Stukalina, 1986, p. 68, Pl. 15, fig. 9. Webster, 1993, p. 134. Stukalina, 1998, p. 15, Fig. 1,no. 2.
Silurian, Wenlockian. Kazakhstan

Bazaricrinus parvulus Stukalina, 1982b, p. 154, Pl. 23, fig. 13; Figs. 28, no. i; 29, no. b. Webster, 1988, p. 173. Stukalina, 1998, p. 15, Fig. 1, no. 1.
Pentagonopentagonalis comptus Myagkova *et al.*, 1963. Stukalina, 1982b, p. 154. Webster, 1988, p. 173.
Pentagonopentagonalis ex. gr. *comptus* Myagkova *et al.*, 1963. Stukalina, 1982b, p. 154. Webster, 1988, p. 173.
Silurian, Llandoverian, Khaastyrsky Horizon, Ugiyuk Suite. Russia, Siberian Platform

Bazaricrinus stellatilobatus Stukalina, 1986, p.141, Pl. 32, fig. 4 (*nomen nudum*), no description. Webster, 1993, p. 134. Stukalina, 1998, p. 15, Fig. 1, no. 4.
Silurian, Pridoli, Tokrau Horizon. Kazakhstan

Bazaricrinus tersus Stukalina, 1971, p. 196, Pl. 2, fig. 5. Stukalina, 1975, p. 142, Pl. 34, figs. 7-8. Webster, 1977, p. 189. Stukalina, 1986, p. 68, Pl. 15, fig. 8. Webster, 1986, p. 332. Webster, 1993, p. 134. Stukalina, 1998, p. 15, Fig. 1, no. 5.
Devonian, early Lochkovian, Karaespin Horizon; Kokbaital Horizon. Kazakhstan

Bazaricrinus umbonatus Stukalina, 1998, p. 14, Figs. 1, no. 3; 4, no. 1.
Late Silurian, Malinovets Horizon, Grintchuk Beds. Russia, Russian Platform

Bazaricrinus? sp. Stukalina, 2000, p. 106, Pl. 24, fig. 1.
Early Silurian, Pogranichnye Sloi Khakomsky and Tukalsky Horizons. Russia, Siberian Platform

BEECRINUS Dubatolova, 1975. **B. amplus* Dubatolova, 1975.
Dubatolova, 1975a, p. 27. Jeffords *in* Moore and Teichert, 1978, p. T932. Webster, 1986, p. 332.
Recognized number of named columnal species: 2 Devonian, Givetian species
Devonian, Givetian. Russia

**Beecrinus amplus* Dubatolvoa, 1975a, p. 28, Pl. 7, figs. 1-5; Fig. 17. Webster, 1986, p. 332.
Devonian, Givetian, Beisk Horizon. Russia, Southern Minusin Basin

Beecrinus hamatus Dubatolova, 1975a, p. 29, Pl. 7, figs. 6-9; Fig. 18. Webster, 1986, p. 332.
Devonian, Givetian, Beisk Horizon. Russia, Southern Minusin Basin

BERELJICRINUS Stukalina, 1980. **Tetragonotetragonalis altaicus* Yeltyschewa *in* Avrov and Stukalina, 1964.
Stukalina, 1980a, p. 95. Stukalina, 1986, p. 50. Webster, 1986, p. 332. Webster, 1993, p. 134.
Recognized number of named columnal species: 1 Silurian, Wenlockian species
Silurian, Wenlockian. Russia

**Bereljicrinus altaicus* (Yeltyschewa *in* Avrov and Stukalina, 1964). Stukalina, 1980a, p. 95. Webster, 1986, p. 333. Stukalina, 1988c, p. 35, Fig. 20, no. 2. Webster, 1993, p. 135.
Tetragonotetragonalis altaicus Yeltyschewa *in* Avrov and Stukalina, 1964, p. 27, Fig. 1. Webster, 1973, p. 322. Webster, 1986, p. 333.
Silurian, Wenlockian. Russia, Altai Mountains

BETPAKDALACRINUS Sisova, 1991. **Betpakdalacrinus cirriferum* Sisova, 1991.
Sisova, 1991, p. 157.
Recognized number of named columnal species: 1 Mississippian, late Tournaisian species
Mississippian, late Tournaisian. Southern Kazakhstan

**Betpakdalacrinus cirriferum* Sisova, 1991, p. 157, Pl. 2, fig. 9.
Mississippian, late Tournaisian. Southern Kazakhstan

BICOSTULATOCRINUS Dubatolova and Yeltyschewa, 1969. **Cyclocyclicus circumvalatus* Yeltyschewa *in* Dubatolova and Shao, 1959.
Dubatolova and Yeltyschewa, 1969, p. 65. Webster, 1977, p. 189. Jeffords *in* Moore
and Teichert, 1978, p. T932. Webster, 1986, p. 333. Webster, 1988, p. 173. Kurilenko *in* Kurilenko, et al., 2002, p. 169.
Recognized number of named columnal species: 1 Mississippian, Tournaisian species (+2 Tournaisian subspecies)
Mississippian - Permian. Russia; China

**Bicostulatocrinus circumvalatus* (Yeltyschewa *in* Dubatolova and Shao, 1959). Dubatolova *in* Dubatolova, 1976, p. 88, Pls. 23, figs. 13-15; 24, figs. 4-5; Fig. 9. Webster, 1977, p. 189. Webster, 1986, p. 333. Webster, 1988, p. 173.
Cyclocyclicus circumvalatus Yeltyschewa *in* Dubatolova and Shao, 1959, p. 48, Pl. 2, fig. 1. Xu, Shan, and Chang, 1962, p. 124, Pl. 1, figs. 11a-f. Stukalina, 1973, p. 37. Webster, 1973, p. 285. Webster, 1977, p. 190.
Bicostulatocrinus circumvallatus (Yeltyschewa, 1959). (sic)Dubatolova and Yeltyschewa, 1969, p. 66, Pl. 15, figs. 6-7. (sic)Dubatolova and Dubatolova, 1984, p. 160, Pls. 24, figs. 7-8; 25, fig. l; Fig. 5. (sic)Kurilenko *in* Kurilenko, et al., 2002, p. 169, Pls. 90, figs. 8-11; 91, fig. 9.

Cyclocyclicus circumvallatus Yeltyschewa, 1959. Dubatolova and Yeltyschewa, 1969, p. 65 (sic).
Hexacrinites? circumvalatus (Yeltyschewa *in* Dubatolova and Shao, 1959). Stukalina, 1973, p. 37, Pls. 4, figs. 1-5; 5, figs. 12-13 (not figs. 14-15 as given p. 37). Webster, 1977, p. 190.
Mississippian, Tournaisian-Viséan; Pennsylvanian, Moscovian, Taskuduk Suite, Severosayak Horizon; Rusakov Horizon. Russia, Southeastern part of Western Siberia, Northeast Pribalkhash
Mississippian, Tournaisian, Chengqiangou Formation. China, Hunan Province; Kwangtung Province

Bicostulatocrinus circumvallatus (Yeltyschewa, 1959) = *B. circumvalatus*

Bicostulatocrinus circumvalatus minor (Yeltyschewa *in* Dubatolova and Shao, 1959). Dubatolova and Yeltyschewa, 1969, p. 68, Pl. 15, figs. 12-13 (in error as *B. circumvallatus minus*). Webster, 1977, p. 190.
Pentagonocyclicus circumvalatus var. *minor* Yeltyschewa *in* Dubatolova and Shao, 1959. Dubatolova and Yeltyschewa, 1969, p. 68. Webster, 1977, p. 190.
Mississippian, Tournasian. Armenia; China, Hunan Province

Bicostulatocrinus circumvalatus squamiformis Yeltyschewa and Dubatolova *in* Dubatolova and Yeltyschewa, 1969, p. 67, Pl. 15, figs. 8-11 (in error as *B. circumvallatus squamiformis*). Webster, 1977, p. 190.
Mississippian. Armenia

Bicostulatocrinus? mui (Dubatolova and Shao, 1959) = *Araxicrinus mui*

BICYCLOCRINUS Sisova, 1991. **Bicyclocrinus polystichus* Sisova, 1991.
Sisova, 1991, p. 164.
Recognized number of named columnal species: 1 Mississippian, late Tournaisian species
Mississippian, late Tournaisian. Cental and southern Kazakhstan

Bicyclocrinus polystichus Sisova, 1991, p. 164, Pl. 1, fig. 8.
Mississippian, late Tournaisian. Cental and southern Kazakhstan

BILATEROCOLUMNUS Donovan, 1989. **B. pinnatus* Donovan, 1989.
Donovan, 1989d, p. 85. Webster, 1993, p. 135.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. United Kingdom

**Bilaterocolumnus pinnatus* Donovan, 1989d, p. 85, Pl. 13, figs. 3, 7; Fig. 32. Webster, 1993, p. 135.
Ordovician, Darriwilian (Llandeilian), Llandeilo Flags. United Kingdom

Bimeric columnals Donovan, 1986d, p. 60, Pl. 2, figs. 10-11. Webster, 1993, p. 135.
Ordovician, Katian (Ashgillian). Rhiwlas Limestone. United Kingdom

Bimerism Donovan, 1985e, p. 21, Fig. 2, no. 19. Webster, 1988, p. 173.
Ordovician, Katian (Ashgillian). United Kingdom

BLANDICRINUS Stukalina, 1977 = ***BLANDICRINUS***

BLANDICRINUS Stukalina and Dubatolova *in* Stukalina, 1998. **Anthinocrinus blandus* Dubatolova, 1975.
Stukalina, 1998, p. 22.
BLANDICRINUS Stukalina, 1977, p. 66, nomen nudum.
Recognized number of named columnal species:2 Devonian, Givetian species
Devonian, Givetian. Russia

**Blandicrinus blandus* (Dubatolova, 1975). Stukalina, 1998, p. 22, Fig. 3, no. 3.
Anthinocrinus blandus Dubatolova, 1975a, p. 8, Pl. 1, figs. 4-10 (incorrectly listed as figs. 4-7, p. 8); Fig. 2. Webster, 1986, p. 326.. Stukalina, 1998, p. 22.
Devonian, Givetian, Beisk Horizon. Russia, Minusin Basin

Blandicrinus quinqueangularis (Dubatolova, 1964). Stukalina, 1998, p. 22.
Anthinocrinus quinqueangularis Dubatolova, 1964. Stukalina, 1998, p. 22.
Note. Stukalina, 1998, p. 21 places *A. quinqueangualris* in *Facetocrinus* and then p. 22 places it in *Blandicrinus*. GDW)
Devonian, Givetian, Beisk Horizon. Russia, Minusin Basin

BLOTHRONAGMA Moore and Jeffords, 1968. **Blothronagma cinctutum* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 63. Webster, 1973, p. 280. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 1 Pennsylvanian, Atokan – Desmoinesian species
Pennsylvanian, Atokan - Desmoinesian. United States, Colorado

**Blothronagma cinctutum* Moore and Jeffords, 1968, p. 63, Pls. 15, figs. 1-6; 16, figs. 12-15. Moore *et al.*, 1968a, p. 11, Pl. 2, fig. 3. Webster, 1973, p. 280. Webster and Houck, 1998, p. 1067, Figs. 5.17-5.22.
Pennsylvanian, Atokan - Desmoinesian, Pumpkin Creek Limestone; Minturn Formation. United States, Oklahoma, Colorado

BODACRINUS Donovan, 1986. **B. columnus* Donovan, 1986.
Donovan, 1986b, p. 236. Webster, 1993, p. 135.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Sweden

**Bodacrinus columnus* Donovan, 1986b, p. 236, Pl. 23, figs. 1-10; Fig. 2. Donovan, 1989e, p. 35, Fig. 15. Donovan, 1991c, p. 33, Fig. 15. Webster, 1993, p. 135.
Ordovician, Katian, Boda Limestone. Sweden

BOHUSLAVOCRINUS Grygar and Vasícek, 1983. **B. grandis* Grygar and Vasícek, 1983.
Grygar and Vasícek, 1983, p. 276.
Recognized number of named columnal species: 1 Carboniferous, Namurian species
Carboniferous, Namurian. Czech Republic

**Bohuslavocrinus grandis* Grygar and Vasícek, 1983, p. 276, Pl. 2, figs. 1a-1b; Fig. 5.
Carboniferous, Namurian. Czech Republic

BORNIUM de Gregorio, 1930. **B. vetustum* de Gregorio, 1930.
de Gregorio, 1930, p. 35. Bassler, 1938, p. 53. Bassler and Moodey, 1943, p. 337. Moore and Laudon, 1943b, p. 103. Webster, 1973, p. 280. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 1 Permian, Wordian species (+1 Wordian subspecies)
Permian, Wordian. Sicily

Bornium vetustum de Gregorio, 1930, p. 35, Pl. 14, figs. 1-3. Bassler, 1938, p. 53. Bassler and Moodey, 1943, p. 337.
Permian, Wordian. Sicily

Bornium vetustum inane de Gregorio, 1930, p. 36, Pl. 13, fig. 4. Bassler and Moodey, 1943, p. 337.
Permian, Wordian. Sicily

BOTRYOCRINUS Angelin, 1878.
Webster, 1993, p. 135.
Recognized number of named columnal species: 5 species. 1 Late Silurian; 4 Devonian, 1 Pragian, 1 Pragian – Emsian, 1 late Emsian, 1 Eifelian – Givetian
Late Silurian: Canada, Nova Scotia
Devonian, Pragian - Givetian. Europe

Botryocrinus convexus Le Menn, 1985, p. 89, Pl. 18, figs. 14-24; Fig. 36, nos. C, G. Le Menn, 1987b, p. 821, Pl. 3, fig. 22; Fig. 12, no. C. Webster, 1988, p. 173. Webster, 1993, p. 135. Ebert, 1994, p. 27, Pl. 1, figs. 4, 8, 10-12; Figs. 19-20, 73, 74.
Devonian, Eifelian, Hobräck Formation; Mühlenberg Formation: Germany
Devonian, Givetian, Kerbelec Formation: France, Armorican Massif

Botryocrinus megumaensis Le Menn *in* Blaise *et al.*, 1991, p. 173, Pl. 2, figs. 8-13.
Late Silurian, White Rock Formation. Canada, Nova Scotia

Botryocrinus montguyonensis Delpey, 1942 = *B. montisguyonensis*

Botryocrinus montisguyonensis Delpey, 1942. Webster, 1977, p. 190. Le Menn, 1981, p. 263. Le Menn, 1985, p. 86, Pls. 17, figs. 12-14, 18, figs. 1-3; Fig. 36, nos. A, E.
Webster, 1986, p. 333. Le Menn, 1987b, p. 821, Pl. 3, figs. 16-18, 20, Fig. 12, no. A. Webster, 1988, p. 173. Webster, 1993, p. 135.
Botryocrinus montis-guyonensis Delpey, 1942. Le Menn, 1970a, p. 38, Pls. 5, figs. 11-14; 6, fig. 1. Le Menn *in* Le Menn *et al.*, 1976, p. 50, Pl. 9, fig. 7.
Botryocrinus montguyonensis Delpey, 1942. Gluchowski, 1993b, p. 164, Pl. 1, fig. 3 (sic).
Devonian,Pragian (late Siegenian) - Emsian, Montguyon Formation, Faou Formation, Reun ar C'Hrank, Bois-Roux Formation, Aubriais Member, Foulerie Formation, Pont-aux-Bouchers Formation; Pesche Graywacke; La Vid Shale, Santa Cruz Formation, Mariposas Formation; Zagorze Formation. France, Armorican Massif; Belgium; Spain; Portugal; Poland

Botryocrinus montis-guyonensis Delpey, 1942 = *B. montisguyonensis*

Botryocrinus punctatus Le Menn, 1980, p. 256, Pl. 35, figs. 12-16. Le Menn, 1985, p. 86, Pl. 18, figs. 4-8; Fig. 36, no. D. Webster, 1986, p. 333. Webster, 1988, p. 173.
Le Menn et al., 2002, p. 28, Pl. 2, figs. 4-6.
Devonian, Pragian (early Siegenian), l'Armorique Schistes. France, Armorican Massif
Devonian, Pragian, lower part of Monte das Russianas Formation. Portugal

Botryocrinus reunensis Le Menn, 1985, p. 87, Pl. 18, figs. 9-13; Fig. 36, nos. B, F. Le Menn, 1987b, p. 821, Pl. 3, figs. 19, 21, Fig. 12, no. B. Webster, 1988, p. 174. Webster, 1993, p. 135.
Devonian, late Emsian, Prioldy Formation, Pen an Ero Formation, le Fret Formation. France, Armorican Massif

Botryocrinus spp.
Termier, G. and Termier, H., 1950, p. 88, Pl. 226, figs. 23-24. Webster, 1973, p. 280.
Ordovician,Darriwilian (Llandeilian). Morocco
Ubaghs, 1953, p. 751, Fig. 86. Webster, 1973, p. 280.
No age given
Ebert, 1994, p. 22, Fig. 12.
Devonian, Pragian - Givetian

BRACHIOCRINUS Hall, 1858.
Recognized number of named columnal species: 1 Devonian, Lochkovian species
Devonian, Lochkovian. United States, New York

**Brachiocrinus nodosarius* Hall, 1859. Brett, 1981b, p. 364, Fig. 8, no. B. Webster, 1988, p. 174. Seilacher and MacClintock, 2005, p. 229, Fig. 7, nos. A-E.
Devonian, Lochkovian, New Scotland Limestone. United States, New York

Bras de Crinoide non pinnulé Flexible Termier, G. and Termier, H., 1950, p. 222, Pl. 219, figs. 29-31. Webster, 1973, p. 325.
Devonian, Eifelian. Morocco

Bras de Crinoide portant des parasites Termier, G. and Termier, H., 1950, p. 222, Pl. 219, fig. 33. Webster, 1973, p. 325.
Devonian, Emsian. Morocco

Bras? d'une espece dont le calice est inconnu Barrande, 1887 = *Ramseyocrinus? primus*

BREIMEROCRINUS Arendt, 2002. **Breimerocrinus laevis* Arendt, 2002 (OD)
Arendt, 2002, p. 141.
Recognized number of named columnal species: 1 Mississippian, Serpukhovian species
Mississippian, Serpukhovian, Steshev Horizon. Russia, Moscow Basin

**Breimerocrinus laevis* Arendt, 2002, p. 141, Pl. 12, figs. 7-8; Fig. 5, nos d-f.
Mississippian, lower part of Serpukhovian, Steshev Horizon. Russia, Moscow Basin

Broad, flange-like epifacet Donovan, 1985e, p. 21, Fig. 2, no. 11. Webster, 1988, p. 174.
Ordovician, Darriwilian (Llanvirnian). United Kingdom

Bryozoan colony growing on crinoid stems Rose, 1967, p. 142, Pl. 18, fig. 2. Webster, 1977, p. 227.
Mississippian, Viséan (Meramecian), Pella Beds. United States, Iowa

BULBOCRINUS Stukalina, 1980. **S. bacillaris* Stukalina, 1980.
Stukalina, 1980d, p. 235. Stukalina, 1986, p. 61. Webster, 1986, p. 333. Webster, 1993, p. 135.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Kazakhstan

**Bulbocrinus bacillaris* Stukalina, 1980d, p. 235, Pl. 2, fig. 9; Fig. 4, no. 2. Stukalina, 1986, p. 61, Pl. 11, fig. 4. Webster, 1986, p. 333. Webster, 1993, p. 135.
Ordovician, Katian, Dulankaren Horizon. Southern Kazakhstan

BUROVICRINUS Stukalina and Kurilenko, 2002. **Pentagonocyclicus burovi* Skoropisceva, 1969.
Stukalina and Kurilenko *in* Kurilenko, 2002, p. 264.
Recognized number of named columnal species: 2 species. 1 Mississippian, late Viséan - Serpukhovian; 1 Permian, series uncertain
Mississippian, late Viséan – Serpukhovian, Permian, series uncertain. Russia

**Burovicrinus burovi* (Skoropisceva, 1969).
Pentagonocyclicus burovi Skoropisceva, 1969, p. 40, Pl. 3, figs. 9-10. Webster, 1977, p. 210. Stukalina and Kurilenko *in* Kurilenko et al., 2002, p. 264.

Permian. Russia, Spitzbergen, Verkhoyane

Burovicrinus subconcentricus (Stukalina, 1973). Kurilenko *in* Kurilenko et al., 2002, p. 264, Pls. 92, fig. 7; 93, figs. 8-15; 96, fig. 10.
Pentagonocyclicus subconcentricus Stukalina, 1973, p. 46, Pl. 6, figs. 1-2. Webster, 1977, p. 214. Kurilenko *in* Kurilenko et al., 2002, p. 264.
Mississippian, late Viséan – Serpukhovian. Russia, Transbaikal

BYSTROWICRINUS Yeltyschewa *in* Yeltyschewa and Stukalina, 1963. **Pentagonopentagonalis quinquelobatus* Yeltyschewa, 1955.
Yeltyschewa *in* Yeltyschewa and Stukalina, 1963, p. 27. Stukalina, 1970b, p. 80. Schewtschenko, 1971, p. 4, Pls. 1, fig. 16; 3, fig. 12. Webster, 1973, p. 280. Webster, 1977, p. 190. Jeffords *in* Moore and Teichert, 1978, p. T932. Stukalina, 1979d, p. 158, Fig. 2, no. 3. Hynda, 1986, p. 89. Stukalina, 1986, p. 57, 95, Fig. 27, nos. 1-3. Webster, 1986, p. 333. Stukalina, 1988c, p. 39, Fig. 23, nos. 1-3. Webster, 1988, p. 174. Webster, 1993, p. 136. Donovan, 1995b, p. 128.
OBUTICRINUS Yeltyschewa and Stukalina, 1963, p. 32. **Pentagonopentagonalis bilobatus* Yeltyschewa, 1960. Stukalina, 1970b, p. 80. Schewtschenko, 1971, p. 7, Pls. 1, fig. 16; 3, fig. 12. Webster, 1973, p. 303. Webster, 1977, p. 208. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1979d, p. 158, Fig. 2,no. 2. Webster, 1986, p. 370. Webster, 1988, p. 200.
Recognized number of named columnal species:12 Species. 8 Ordovician, 1 Darriwilian – Sandbian, 1 Sandbian, 6 Katian; 3 Silurian, 1 Llandoverian – Wenlockian, 1 Wenlockian, 1 Early Silurian uncertain; 1 Devonian, early Emsian
Ordovician, Darriwilian – Katian, - Silurian, Llandoverian - Wenlockian. Russia
Ordoviian, Darriwilian – Katian. United kingdom
Ordovician, Katian. Latvia, Estonia
Devonian, Emsian. Czech Republic

Bystrowicrinus angustilobatus (Yeltyschewa, 1963) = *B. quinquelobatus*

Bystrowicrinus arcus Donovan, 1995b, p. 129, Pl. 18, fig. 6.
Ordovician, Katian, Rhiwlas Limestone. United Kingdom

Bystrowicrinus bilobatus (Yeltyschewa, 1955). Stukalina, 1982b, p. 151, Pl. 23, figs. 3-12, 14; Figs. 29, no. v; 32. Milicina, 1985, p. 48. Stukalina, 1986, p. 57, Pl. 9, figs. 3-12. Stukalina, 1988c, p. 57, Pl. 4, figs. 7, 8; Fig. 14. Webster, 1988, p. 174, p. 200. Webster, 1993, p. 136. Stukalina, 2000, p. 37, Pls. 10, figs. 1-6; 11, figs. 1, 3, 5, 7-11; Fig. 7.
Pentagonopentagonalis bilobatus Yeltyschewa, 1960, p. 17, Pl. 5, figs. 1-4. Yeltyschewa and Stukalina, 1963, p. 32. Yeltyschewa, 1964b, p. 75, Pl. 15, fig. 21. Schewtschenko, 1964, p. 13, Pls. 1, fig. 1; 4, fig. 3. Webster, 1973, p. 303. Stukalina, 1982b, p. 151. Milicina, 1985, p. 48. Webster, 1988, p. 174, p. 200.
Obuticrinus bilobatus (Yeltyschewa, 1960). Yeltyschewa and Stukalina, 1963, p. 32, Pl. 2, figs. 1-3; Fig. 4. Schewtschenko, 1971, p. 7, Pls. 2, figs. 1-6; 5. Webster, 1973, p. 303. Webster, 1977, p. 208. Stukalina, 1982b, p. 151. Milicina,
1985, p. 48, Pl. 3, fig. 8; Fig. 3. Webster, 1988, p. 174, p. 200.

Pentagonocyclicus indissimilis Schewtschenko, 1964, p. 18, Pls. 2, figs. 10-11; 3, figs. 4-5. Schewtschenko, 1968a, p. 278, Pl. 66, fig. 2; Fig. 29. Schewtschenko, 1971, p. 8. Webster, 1973, p. 308. Stukalina, 1982b, p. 151. Webster, 1988, p. 174.

Pengagonocyclicus indissimilis (Schewtschenko, 1964). Webster, 1977, p. 208 (sic).

Obuticrinus bullosus Yeltyschewa and Stukalina, 1963, p. 34, Pl. 2, figs. 9-11; Fig. 5. Webster, 1973, p. 303. Stukalina, l982b, p. 151. Milicina, 1985, p. 47, Pl. 3, figs. 5-7; Fig. 2. Webster, 1988, p. 174, p. 201

Obuticrinus indissimilis (Schewtschenko, 1964). Schewtschenko, 1971, p. 8, Pl. 2, figs. 7-8; Fig. 2. Webster, 1977, p. 208. Stukalina, 1982b, p. 151. Webster, 1988, p. 174.

Silurian, Wenlockian, Middle Klenov Suite; Khakom Horizon; Elkin Horizon; Isov Horizon. Russia, Siberian Platform, Northern Ural Mountains, Nova Zemlya

Silurian, Wenlockian. Tadzhikstan. Zeravshan-Gissar Mountain Region,

Bystrowicrinus cadus Donovan, 1995b, p. 129, Pl. 18, figs. 4-5.
Ordovician, Katian, Rhiwlas Limestone. United Kingdom

Bystrowicrinus compositus (Yeltsychewa, 1955) = **Compositocrinus compositus*

Bystrowicrinus cf. *compositus* (Yeltyschewa, 1955). Hynda, 1986, p. 88, Pl. 14, figs. 5-6; Fig. 34. Webster, 1993, p. 136.
Ordovician, Sandbian, Kukruzea and Idabereja Horizons. Russia, Southwestern Eastern European Platform

Bystrowicrinus costatus Stukalina, 2000, p. 41, Pl. 9, fig. 2; Fig. 8, no. 3.
Early Silurian, Khaastyrsky Horizon, Ugiyukskaya Suite. Russia, Siberian Platform

Bystrowicrinus dowhillensis Donovan, 1995b, p. 129, Fig. 43, nos. C-D.
Ordovician, Sandbian. United Kingdom

Bystrowicrinus dyfedensis Donovan, 1995b, p. 130, Pls. 18, fig. 3; 19, fig. 13; Fig. 43, nos. E-G.
Ordovician, Katian, Rhiwlas Limestone; Sholeshook Limestone. United Kingdom

Bystrowicrinus parvirugosus Yeltyschewa, 1979, p. 97, Pl. 1, fig. 4. Webster, 1986, p. 334.
Ordovician, Katian, Nabala Horizon. Latvia

Bystrowicrinus patellus Donovan, 1995b, p. 131, Pl. 18, fig. 2.
Ordovician, Katian, Rhiwlas Limestone. United Kingdom

Bystrowicrinus primarius Yeltyschewa, 1979, p. 96, Pl. 1, fig. 5. Webster, 1986, p. 334.
Ordovician, Katian, Vezenberg Horizon. Estonia

Bystrowicrinus angustilobatuc (Schewtschenko *in* Schewtschenko, 1964) = *B. quinquelobatus*

Bystrowicrinus angustilobatuc (Schewtschenko *in* Schewtschenko, 1964) =
**Bystrowicrinus quinquelobatus*

**Bystrowicrinus quinquelobatus* (Yeltyschewa, 1955). Yeltyschewa and Stukalina, 1963, p. 28, Pl. 2, figs. 7-8; Fig. 1. Schewtschenko, 1971, p. 5, Pl. 1, figs. 2-9; Fig. 2. Webster, 1973, p. 280. Gluchowski, 1977, p. 309, Fig. 5. Stukalina, 1979a, p. 141, Pl. 30, fig. 8; Fig. 31, no. b. Tasakov *et al.*, 1980, p. 149, Pl. 28, fig. 3. Stukalina, 1982b, p. 151, Pl. 23, fig. 2; Fig. 28, no. K. Stukalina, 1986, p. 57, Pl. 9, figs. 1-2; Figs. 10, no. 6; 12, no. 4. Webster, 1986, p. 334. Stukalina, 1988c, p. 58, Pl. 4, figs. 9-14; Fig. 24, no. 3. Webster, 1988, p. 174. Webster, 1993, p. 136. Stukalina, 2000, p. 36, Pls. 11, figs. 2, ,6 ; 12, fgi. 1, 14, fig. 2; 23, fig. 1 (non fig. 2 as given p. 36); Fig. 8, no. 1.

Pentagonopentagonalis quinquelobatus Yeltsychewa, 1955a, p. 43, Pls. 23, fig. 4-5; 37, figs. 5-6. Yeltsychewa, 1960, p. 11, Pl. 2, figs. 1-6. Yeltyschewa and Stukalina, 1963, p. 28. Schewtschenko, 1964, p. 11, Pls. 1, figs. 3-5; 2, fig. 12; 3, fig. 7. Webster, 1973, p. 280.

Pentagonopentagonalis compositus Schewtschenko, 1964 (*non* Yeltyschewa, 1955). Stukalina, 1979a, p. 142. Webster, 1986, p. 334.

Pentagonopentagonalis angustilobatus Schewtschenko *in* Schewtschenko, 1964, p. 12, Pls. 2, figs. 3-5, 9; 4, fig. 4. Myagkova *et al.*, 1963. Webster, 1973, p. 312. Stukalina, 1979a, p. 142. Webster, 1986, p. 334.

Pentagonocyclicus ex. gr. *angustilobatus* Myagkova *et al.*, 1963. Stukalina, 1979a, p. 142. Webster, 1986, p. 334.

Bystrowicrinus angustilobatus (Schewtschenko *in* Schewtschenko, 1964). Schewtschenko, 1971, p. 6, Pl. 1, figs. 13-14; Fig. 4. Milicina, 1973, p. 17, Pl. 3, figs. 1-3. Webster, 1973, p. 280. Webster, 1977, p. 190. Stukalina, 1979a, p. 142. Webster, 1986, p. 334. Webster, 1993, p. 136.

Bystrowicrinus angustilobatuc (Schewtschenko *in* Schewtschenko, 1964). Yeltyschewa *in* Yeltyschewa and Stukalina, 1963, p. 29, Pl. 2, fig. 6; Fig. 2 (sic).

Ordovician, Darriwilian – Sandbian; Silurian, late Llandoverian - Wenlockian, Ilkin Horizon; Mangazeja Horizon, Baksun Subhorizon. Russia, Siberian Platform, Taymyr, Northern Ural Mountains, Nova Zemlya, Pamyr Mountains, Pribaltic, Tadzhikstan, Zeravshan-Gissar Mountain Region,

Bystrowicrinus quinquelobus Donovan, 1995b, p. 131, Fig. 43, nos. J-K.
Ordovician, Darriwilian - Sandbian. United Kingdom

Bystrowicrinus scoticus Donovan, 1995b, p. 131, Pl. 17, fig. 6.
Ordovician, Katian, Craighead Limestone. United Kingdom

Bystrowicrinus torosus Stukalina, 2000, p. 40, Pl. 10, fig. 10; Fig. 8, no. 2.
Early Silurian, Talikitsky Horizon. Russia, Siberian Platform

Bystrowicrinus vitiosus Prokop and Slámová, 2009, p. 42, Pl. 2, figs. E-L; Fig. 3, nos. A-D.
Devonian, early Emsian, Zlíchov Limestone. Czech Republic

Bystrowicrinus? sp. A Donovan, 1994 = *Bystrowicrinus?* (col) sp.

Bystrowicrinus? sp. A Donovan, 1995b = *Bystrowicrinus?* (col) sp.

Bystrowicrinus? sp. B Donovan, 1995b, p. 132, Fig. 43, no. F.
Ordovician, Katian. United Kingdom

Bystrowicrinus sp. Donovan, 1987a, p. 100, Fig. 2. Webster, 1993, p. 136.
Ordovician, Hirnantian. United Kingdom

Bystrowicrinus? sp. Donovan, 1995a, p. 14, Fig. 2, no. e.
Ordovician, Hirnantian, Glyn Formation. United Kingdom, Wales

Bystrowicrinus spp. *sensu lato* Donovan, 1995b, p. 132, Pl. 19, figs. 2-3, 5, 11.
Ordovician, Katian, Rhiwlas Limestone. United Kingdom

Bystrowicrinus (col.) sp. Fone, et al., 2002, p. 110, Pl. 4, fig. 1; Fig. 1, no. D.
Ordovician, Darriwilian, (Llanvirian), Meadowtown Formation. United Kingdom, Shropshire

Bystrowicrinus? (col) spp.
Donovan, 1994, p. 77, Fig. 8, no. E. Donovan, 1995a, p. 14, Fig. 2, no. e.
Ordovician, Hirnantian, Glyn Formation. United Kingdom, Wales
Donovan and Wright, 1995, p. 233, Figs. 3, no. B; 4, nos. D-F.
Ordovician, Hirnantian, beds above Keisley Limestone. United Kingdom

Bystrowicrinus? (col) sp. Donovan and Wright, 1995, p. 233, Fig. 2, no. C.
Bystrowicrinus? sp. A Donovan, 1994, Fig. 8, no. F.
Bystrowicrinus? sp. A Donovan, 1995b, p. 131, Fig. 43, nos. H-I.
Ordovician, Hirnantian, Glyn Formation. United Kingdom

Bystrowicrinus-type columnals Donovan, 1985e, p. 22, Fig. 3. Webster, 1988, p. 174.
Ordovician. United Kingdom

Bystrowicrinus-type holdfasts Donovan, Harper and Hakansson, 2007, p. 314, Fig. 1,no.
E.
Silurian, Wenlockian, Klinteberg Formation. Sweden, Island of Gotland

Bystrowicrinus-type holdfasts Donovan, Harper, and Hakansson, 2007, p. 315, Fig. 1, no. E.
Silurian, Wenlockian, Klinteberg Formation. Sweden, Island ofGotland

Calceocrinid holdfasts Eckert, 1984, p. 76, Pl. 7, figs. 1-2. Webster, 1988, p. 174.
Early Silurian, Cabot Head Formation. Canada, Ontario

CALEIDOCRINUS Waagen and Jahn *in* Jahn, 1899.

Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. United Kingdom

Caleidocrinus (Huxleyocrinus) turgidulus Ramsbottom, 1961. Donovan, 1986d, p. 28, Pl. 1, fig. 6.
Ordovician, Darriwilian (Llanvirnian), Builth Volcanic Group. United Kingdom

CALLEOCRINUS Dubatolova, 1971. **Pentagonocyclicus granatus* Dubatolova, 1964. Dubatolova, 1971, p. 84. Webster, 1977, p. 191. Jeffords *in* Moore and Teichert, 1978, p. T932. Webster, 1986, p. 334. Webster, 1988, p. 174. Webster, 1993, p. 136. Ebert, 1994, p. 55. Franke, c., 2012, p. 62.
Recognized number of named columnal species: 12 Devonian species, 1 subspecies: 1 Pragian, 1 Pragian – Emsian, 1 emsian, 1 Emsian – Eifelian, 3 Eifelian,1 Eifelian – Frasnian, 2 Frasnian, 1 Frasnian or Famennian, 1 Early - LateDevonian
Devonian, Emsian. Uzbekistan; France
Devonian, Emsian, Eifelian, Losishin Suite – Frasnian or Famennian. Russia, Rudny Altai
Devonian, Emsian, Frasnian. Poland
Devonian, Eifleian. Germany

Calleocrinus antisus Rakhmonov and Stukalina, 2000, p. 3, Pl. 2, figs. 7-8 (nomen nudum, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

Calleocrinus bicostatus Gluchowski, 1993a, p. 60, 73, Fig. 11, nos. J-K.
Devonian, Frasnian, Kadzielnia Member; Detrital Beds; Kowala Formation. Poland

Calleocrinus byssinus Dubatolova, 1980, p. 143, Pl. 21, figs. 10-11; Fig. 36. Webster, 1986, p. 334.
Devonian, late Emsian - Eifelian, Zlikhov Layer. Russia, Altai Mountains

Calleocrinus byssinus salagensis Dubatolova, 1984, p. 120, Pl. 15, figs. 1-4; Fig. 10. Webster, 1988, p. 174.
Devonian, Vechernin Suite. Russia, Omulev Mountains

Calleocrinus exsertus Dubatolova, 1980, p. 142, Pl. 21, figs. 7-9; Fig. 35. Webster, 1986, p. 334.
Devonian, late Emsian, Zlikhov Layer. Russia, Altai Mountains

**Calleocrinus granatus* (Dubatolova, 1964). Dubatolova, 1971, p. 84. Webster, 1977, p. 191.
Pentagonocyclicus granatus Dubatolova, 1964, p. 78, Pls. 10, fig. 14; 11, figs. 1-2. Dubatolova, 1971, p. 84. Webster, 1973, p. 307. Webster, 1977, p. 191.
Devonian, Frasnian or Famennian. Russia, Kuznetz Basin

Calleocrinus hirtus Dubatolova, 1975a, p. 22, Pl. 5, figs. 4-6 (incorrectly listed as figs. 4-9, p. 22); Fig. 13. Dubatolova and Dubatolova, 1982, p. 42, Pl. 1, figs. 15-18; Fig. 5. Webster, 1986, p. 334. Webster, 1988, p. 174.
Devonian. early Eifelian, Russia, Southern Minusin and Tuvin Depressions

Calleocrinus cf. *hirtus* Dubatolova, 1975. Ebert, 1994, p. 55, Pl. 3, fig. 16; Figs. 54, 64, no. b; 73-74.
Devonian, Eifleian, Mühlenberg Formation; Ohle Formation. Germany

Calleocrinus kielcensis Gluchowski, 1993a, p. 60, 72, Fig. 11, nos. G-I. Gluchowski, 2002, p. 323, Figs. 2, nos. K-N. Gluchowski, Casier, and Olempska, 2006, p. 701, Fig. 3, nos. N, O.
Devonian, Eifleian, Mühlenberg Formation; Ohle Formation. Germany
Devonian, Frasnian, Wietrznia Beds; *Phlogoiderhynchus* Level; Kadzielnia Member; upper part of Sitkowka Beds; Detrital Beds; Grained Limestone. Poland

Calleocrinus lagrangensis Le Menn, 1985, p. 149, Pl. 33, figs. 11-13, 16. Webster, 1988, p. 174. Franke, C., 2012, p. 62, Pl. 27, figs. 5-6.
Devonian, late Emsian, La Grange Limestone. France, Armorican Massif

Calleocrinus minutus Dubatolova, 1990, p. 124, Pl. 16, figs. 15-16; Fig. 29, nos. A-B. Webster, 1993, p. 136.
Devonian, Pragian. Russia, West Siberian Platform

Calleocrinus multicius (Dubatolova, 1964). Dubatolova, 1971, p. 84. Webster, 1977, p. 191.
Pentagonocyclicus multicius Dubatolova, 1964, p. 94, Pl. 14, fig. 3. Dubatolova, 1971, p. 84. Webster, 1973, p. 309. Webster, 1977, p. 191.
Early - Late Devonian. Russia, Kuznetz Basin, Northeastern Salair

Calleocrinus tenuicostalis Zinevich, 1988, p. 87, Pl. 19, fig. 9; Fig. p. 81, no. i. Webster, 1993, p. 136.
Devonian, Eifelian, Losishin Suite. Russia, Rudny Altai

CALPIOCRINUS Angelin, 1878.
Recognized number of named columnal species: 1 Silurian species, series uncertain
Silurian, series uncertain. Czech Republic

Calpiocrinus bohemicus Waagen and Jahn, 1899. Bassler and Moodey, 1943, p. 350.
Calpiocrinus? bohemicus Waagen and Jahn, 1899, p. 21, Pls. 59-79. Bather, 1900, p. 113, Fig. 6. Bassler and Moodey, 1943, p. 350.
Silurian, series uncertain. Czech Republic, Bohemia

Calpiocrinus? bohemicus Waagen and Jahn, 1899 = *Calpiocrinus bohemicus*

Calpiocrinus??? bohemicus Waagen and Jahn, 1899 = Polypeltidae gen. et sp. ind.

CAMAROCRINUS Hall, 1879. **C. stellatus* Hall, 1879.
Zittel, 1895, p. 154. Schuchert, 1904b, p. 263. Sun, 1955, p. 85. Author unknown, 1974, p. 719. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 4 species. 1 Silurian, Wenlockian; 3 Devonian, Lochkovian
Silurian, Wenlockovian. China, Yunnan – Devonian, Lochkovian
Devonian, Lochkovian (Helderbergian). United States, Tennessee, Virginia, Missouri, Oklahoma, West Virginia

Camarocrinus asiaticus Reed, 1906. Sun, 1955, p. 85, Pl. 47, figs. 1-4. Author unknown, 1974, p. 720, Pl. 32, figs. 11-12.
Silurian, Wenlockian, Heqian Limestone. China, Yunnan

Camarocrinus saffordi Hall, 1879. Schuchert, 1904b, p. 270, Pl. 40, fig. 10.
Devonian, Lochkovin (Helderbergian), Linden Formation. United States, Tennessee, Missouri

Camarocrinus stellatus Hall, 1879. Schuchert, 1904b, p. 269, Pl. 44, figs. 1-5.
Devonian, Lochkovian (Helderbergian), Manlius Shale. United States, New York, Maryland, West Virginia

Camarocrinus stellatus n. var. Schuchert, 1904b, p. 272, Pls. 40, fig. 9; 41, fig. 6 (given as *Camarocrinus ulrichi stellifer* on plate and figures explanations).
Devonian, Lochkovian (Helderbergian), Hunton Formation. United States, Oklahoma

Camarocrinus ulrichi Schuchert, 1904b, p. 271, Pls. 40, figs. 6-8; 41-41; Figs. 42, no. b, 43-44.
Devonian, Lochkovian (Helderbergian), Hunton Formation. United States, Oklahoma

Camarocrinus, the bulbous root of *Scyphocrinus pratteni* McChesney, 1860. Dunbar, 1919, p. 50, Pl. 1, fig. 10.
Devonian, Ross Limestone. United States, Tennessee

Camarocrinus spp.
Ubaghs *in* Moore and Teichert, 1978, p. T91, T93, Figs. 67, nos. 1-6; 68, nos. 1-5. Webster, 1986, p. 334.
No age given

Camarocystida = Lobolithes Jaekel, 1896, p. 168.
Silurian. Europe, Czech Republic

Camerate columnals Brower, 1974b, p. 46, Fig. 20, nos. 1-2. Brower *in* Moore and Teichert, 1978, p. T251, Fig. 198, nos. 1-2. Webster, 1986, p. 395.
No age given

CAMPTOCRINUS Wachsmuth and Springer, 1897.

Stukalina, 1973, p. 25. Webster, 1977, p. 191.
Recognized number of named columnal species: 10 species: 1 Carboniferous uncertain, 1 early – Middle Carboniferous uncertain, 5 Mississippian, 1, Early Mississippian uncertain, 2 Viséan, 1 Serpukhovian, 3 Permian Sakmarian – Artinskian
Mississippian - Pennsylvanian. Poland; United Kingdom, Scotland; Russia; United States
Permian, Sakmarian - Artinskian. Argentina

Camptocrinus beaveri Moore and Jeffords, 1968, p. 48, Pls. 5, fig. 10; 6, fig. 4. Webster, 1973, p. 281. Gluchowski, 1981b, p. 36, Pl. 5, fig. 4. Webster, 1988, p. 175.
Mississippian, Chesterian, Paint Creek Formation. United States, Illinois
Mississippian, Viséan, Serpukhovian: Poland

Camptocrinus bezouglovae Hlebszevitsch, 2005, p. 603, Fig. 3, nos. M-N, R.
Permian, Sakmarian-Artinskian, Mojón de Hierro Formation. Argentina

Camptocrinus compressus Wright, 1937. Ubaghs *in* Moore and Teichert, 1978, p. T70, Fig. 50, nos. 1-6. Webster, 1986, p. 335. Donovan, 1989e, p. 34, Fig. 27. Donovan, 1991c, p. 34, Fig. 27. Webster, 1993, p. 136.
Mississippian, Viséan. United Kingdom, Scotland

Camptocrinus gutaensis Stukalina, 1973, p. 27, Pl. 2, figs. 1-4. Webster, 1977, p. 191. Stukalina, 1986, p. 139, Pl. 26, figs. 4-7. Webster, 1993, p. 136. Kurilenko *in* Kurilenko et al., 2002, p. 254, Pl. 93, figs. 4-7.
Early - Middle Carboniferous, Gutak Suite. Russia, Transbaikal, Zabaikal
Mississippian, Serpukhovian, Guraiska Suite, Mergensky Horizon. Russia, Central Transbaikal

Camptocrinus lobachevae Kurilenko *in* Kurilenko et al., 2002, p. 155, Pl. 96, fig. 11.
Pensylvanian , Bashkirian, Shazagaituiska Suite, Shazagaiuisky Horizon. Russia Far East, Transbaikal

Camptocrinus magnus Stukalina, 1973, p. 26, Pl. 1, figs. 1-6. Webster, 1977, p. 191. Stukalina, 1986, p. 138, Pls. 25, figs. 19-21; 26, figs. 1-3. Webster, 1993, p. 137.
Early - Middle Carboniferous, Gutak Suite. Russia, Transbaikal; Mongolia, Zabaikal

Camptocrinus myelodactylus Wachsmuth and Springer, 1897. Ubaghs *in* Moore and Teichert, 1978, p. T87, Fig. 62, nos. 5-6. Webster, 1986, p. 335.
Early Mississippian. United States, Indiana

Camptocrinus olartei Hlebszevitsch, 2005, p. 604, Fig. 3, nos. G-H.
Permian, Sakmarian-Artinskian, Mojón de Hierro Formation. Argentina

Camptocrinus patagoniensis Hlebszevitsch, 2005, p. 603, Fig. 3, nos. E-F, I-L.

Permian, Sakmarian-Artinskian, Mojón de Hierro Formation. Argentina

Camptocrinus permiensis Yakovlev, 1927 = *Stomiocrinus permiensis*

Camptocrinus suni (Dubatolova and Shao, 1959). Stukalina and Shulza, 1993, p. 97, Pl. 1, fig. 4.
Carboniferous, Porit Suite. Russia, Lvov-Volyn Basin

Camptocrinus? tasmaniensis Sieverts-Doreck, 1942 (part) = *Neocamptocrinus? tasmaniensis*

Camptocrinus? tasmaniensis Sieverts-Doreck, 1942 (part) = *Neocamptocrinus? sievertsae*

Camptocrinus sp. 1 Hlebszevitsch, 2005, p. 604, Fig. 3, nos. O-P.
Permian, Sakmarian-Artinskian, Mojón de Hierro Formation. Argentina

Camptocrinus sp. 2 Hlebszevitsch, 2005, p. 604, Fig. 3, no. S.
Permian, Sakmarian-Artinskian, Mojón de Hierro Formation. Argentina

Camptocrinus sp. 3 Hlebszevitsch, 2005, p. 604, Fig. 3, no. Q.
Permian, Sakmarian-Artinskian, Mojón de Hierro Formation. Argentina

Camptocrinus spp.
Moore, 1939b, p. 195, Fig. 6, no. 1.
Mississippian, Viséan (Osagean), Indian Creek Beds. United States, Indiana
Burdick and Strimple, 1971a, p. 41. Webster, 1977, p. 191.
Mississippian, Viséan (Chesterian), Beech Creek Limestone. United States, Illinois

Canaliculi Donovan, 1985e, p. 21, Fig. 2, no. 17. Webster, 1988, p. 175.
Ordovician, Katian (Ashgillian). United Kingdom

CARABOCRINUS Billings, 1857.
Stukalina, 2000, p. 16.
Recognized number of named columnal species: 1 Late Ordovician species
Late Ordovician, Dolborsky Horizon, middle part of Dzheromskoi Suite. Russia, Siberian Platform

Carabocrinus dzheromensis Stukalina, 2000, p. 23, Pl. 18, figs. 5-6; Fig. 3.
Late Ordovician, Dolborsky Horizon, middle part of Dzheromskoi Suite. Russia, Siberian Platform

CARAGACHICRINUS Stukalina, 1980. **C. quinquepartitus* Stukalina, 1980.
Stukalina, 1980b, p. 105. Stukalina, 1986, p. 67. Webster, 1993, p. 137.
Recognized number of named columnal species: 2 Ordovician species, 1 Darriwilian, 1 Sandbian
Ordovician, Darriwiliian - Sandbian. Kazakhstan

Caragachicrinus minutus Stukalina, 1980b, p. 106, Pl. 23, fig. 2. Webster, 1986, p. 335.
Ordovician, Darriwilian, Yerkebidaik Horizon. Kazakhstan

Caragachicrinus quinquepartitus Stukalina, 1980b, p. 105, Pl. 23, fig. 1; Fig. 19, no. 1. Stukalina, 1986, p. 67, Pl. 14, fig. 1. Webster, 1986, p. 335. Stukalina, 1988c, p. 59, Pl. 5, fig. 14. Webster, 1993, p. 137.
Ordovician, Sandbian, Karagach Suite, Anderken Horizon. Eastern Kazakhstan

CARINATOCRINUS Arendt, 2002. **Carinatocrinus carinatus* Arendt, 2002, (OD) Arendt, 2002, p. 138.
Recognized number of named columnal species: 1 Mississippian, Serpukhovian species
Mississippian, early Serpukhovian. Russia, Moscow Basin

**Carinatocrinus carinatus* Arendt, 2002, p. 138, Pl. 16, figs. 1-3; Fig. 4, nos. j-l.
Mississippian, early Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

CAROLICRINUS Waagen and Jahn, 1899.
Silurian, Pridoli. Czech Republic

Carolicrinus spp. Prokop and Petr, 2001b, p. 264, Figs. 6, nos. a-c, 8.
Silurian, Pridoli, Pridoli Limestone. Czech Republic

CATAGRAPHIOCRINUS Stukalina, 1968. **Pentagonopentagonalis quindecemlobatus* Yeltyschewa and Stukalina, 1963.
Stukalina, 1968c, p. 88. Stukalina, 1970b, p. 78. Webster, 1973, p. 281. Webster, 1977, p. 191. Jeffords *in* Moore and Teichert, 1978, p. T932. Stukalina, 1986, p. 66. Webster, 1986, p. 335. Webster, 1988, p. 175. Webster, 1993, p. 137.
Recognized number of named columnal species: 4 species: 3 Ordovician, 1 Sandbian, 2 Katian, 1 Ordovician, Sandbian – Silurian, Llandoverian
Ordovician, Sandbian – Silurian, Llandoerian. Kazakhstan

Catagraphiocrinus accolensis Stukalina and Tujutuan, 1980. Stukalina, 1980b, p. 103,
Pl. 22, figs. 21-22; Fig. 18, no. 1. Webster, 1986, p. 335. Stukalina, 1988c, p. 60, Pl. 7, fig. 18.
Ordovician, Katian, Dulankaren Horizon, Akkol Limestone. Kazakhstan

Catagraphiocrinus altus Stukalina, 1980b, p. 104, Pl. 22, fig. 23; Fig. 18, no. 2. Webster, 1986, p. 335.
Ordovician, Sandbian, Anderken Horizon. Kazakhstan

Catagraphiocrinus bandaletovi Stukalina *in* Zanina, 1972, p. 290, Pl. 60, fig. 11. Webster, 1977, p. 191.
Ordovician, Katian, Dzhamanshuruk Suite, Basal Kulunbulak Suite. Kazakhstan

Catagraphiocrinus catagraphus (Stukalina, 1960) = *Uzenicrinus catagraphus*

**Catagraphiocrinus quindecemlobatus* (Yeltyschewa and Stukalina, 1963). Stukalina, 1986c, p. 88. Stukalina, 1970b, p. 79. Webster, 1973, p. 281. Webster, 1977, p. 192. Stukalina, 1985a, p. 178, Pl. 3, figs. 4-8 (typographical error as *Gatagraphiocrinus* on plate explanation, p. 198) . Stukalina, 1986, p. 66, Pl. 14, figs. 18-22. Stukalina, 1988c, p. 60, Pl. 7, figs. 19-24; Fig. 27, no. 6. Webster, 1988, p. 175. Webster, 1993, p. 137.

Pentagonopentagonalis quindecemlobatus Yeltyschewa and Stukalina, 1963, p. 41, Pl. 1, figs. 19-20; Fig. 10. Stukalina, 1968c, p. 88.

Ordovician, Sandbian, - Early Silurian, Llandoverian, Anderken Horizon. Kazakhstan,
Taymyr

CATHOLICORHACHIS Moore and Jeffords, 1968. **C. exile* Moore and Jeffords, 1968.

Moore and Jeffords, 1968, p. 63. Webster, 1973, p. 281. Jeffords *in* Moore and Teichert, 1978, p. T932.

Recognized number of named columnal species: 1 Pennsylvanian, Desmoinesian species

Pennsylvanian, Desmoinesian. United States

**Catholicorhachis exile* Moore and Jeffords, 1968, p. 63, Pl. 14, fig. 8. Webster, 1973, p. 281.

Pennsylvanian, Desmoinesian, Mingus Shale. United States, Texas

CELTOCRINUS Donovan and Cope, 1989. **C. ubaghsi* Donovan and Cope, 1989.

Donovan and Cope, 1989, p. 104. Donovan, 1989d, p. 80. Webster, 1993, p. 137.

Recognized number of named columnal species: 1 Ordovician, Floian species

Ordovician, Floian (Arenigian). United Kingdom

**Celtocrinus ubaghsi* Donovan and Cope, 1989, p. 104, Pl. 14, figs. 1-6; Figs. 1-2. Donovan, 1989d, p. 80, Pl. 7, fig. 1; Fig. 25, no. D. Webster, 1993, p. 137.

?Dendrocrinus sp. Bloxam *in* Owen *et al.*, 1971. Donovan, 1989d, p. 80. Webster, 1993, p. 137.

Monobathrid gen. et sp. nov. Donovan, 1988c, p. 237. Donovan, 1989d, p. 80. Webster, 1993, p. 137.

Recognized number of named columnal species:

Ordovician, Floian (Arenigian), Blaencedin Formation. United Kingdom, Wales

CENERICRINUS Le Menn, 1976. **C. tenuis* Le Menn, 1976.

Le Menn, 1976, p. 281, Pl. 53, figs. 6-8. Webster, 1986, p. 335. Webster, 1988, p. 175.

Recognized number of named columnal species: 1 Devonian, early Pragian species

Devonian, early Pragian. France

**Cenericrinus tenuis* Le Menn, 1976, p. 281, Pl. 53, figs. 6-8. Le Menn, 1985, p. 157,

Pl. 35, figs. 5-8, 10. Webster, 1986, p. 335. Webster, 1988, p. 175.
Devonian, early Pragian (early Siegenian), Saint-Céneré Formation. France, Armorican Massif

CHEIROCRINUS Salter, 1859 = *CALCEOCRINUS*

Cheirocrinus? tumefatus Stukalina, 1978. Stukalina, 1986, p. 140, Pl. 30, figs. 1-15. Webster, 1993, p. 137.
Ordovician, Sandbian, Obikalon Layer. Kazakhistan, Tien Shan

CHINACRINUS Lane, Waters, and Maples, 1997.
Devonian, Fammenian. China, Xinjiang-Uygur Autonomous Region

Chinacrinus sp. Lane, Waters, and Maples, 1997, p. 20, Figs. 6.11.
Devonian, Famennian, Hongguleleng Formation, upper member. China, Xinjiang-Uygur Autonomous Region

CHINGIZOCRINUS Stukalina, 1982. **Pentagonopentagonalis kokajgirensis* Stukalina, 1960.
Stukalina, 1969, p. 206 (*nomen nudum*). Jeffords *in* Moore and Teichert, 1978, p. T936. Stukalina, 1979d, p. 158, Fig. 2, no. 2. Stukalina, 1982a, p. l94. Webster, 1986, p. 336. Webster, 1988, p. 175. Webster, 1993, p. 137.
Recognized number of named columnal species: 1 Silurian, Llandoverian species
Silurian, Llandoverian. Eastern Kazakhstan

**Chingizocrinus kokajgirensis* (Stukalina, 1960). Stukalina, 1982a, p. 194. Webster, 1988, p. 175.
Pentagonopentagonalis kokajgirensis Stukalina, 1960, p. 104, Fig. 4. Webster, 1973, p. 312. Webster, 1988, p. 175.
Silurian, Llandoverian, *Holorhynchus cinghizicus* Beds, Alpeis Horizon. Kazakhstan, Chingiz Mountains

CHLIDONOCRINUS Strimple and Watkins, 1969.
Recognized number of named columnal species: 1 Pennsylvanian, Desmoinesian species
Pennsylvanian, Desmoinesian. United States, Texas

Chlidonocrinus echinatus Strimple and Watkins, 1969. Simms and Sevastopulo, 1993, p. 95, Pl. 1, figs. 1, 8, 10.
Pennsylvanian, Desmoinesian, Marble Falls Formation, Lemons Bluff Member. United States, Texas

CINCINNATICRINUS Warn and Strimple, 1977.
Recognized number of named columnal species: 2 Ordovician species, 1 Sandbian, 1 Katian
Ordovician, Sandbian – Katian (Edenian – Richmondian). United States

Cincinnaticrinus column Ausich, 1996b, p. 244, Fig. 17-4, no. 7.

Ordovician, stratum unknown. United States, Ohio

Cincinnaticrinus heterodactylus Titus, 1979, p. 112, Fig. 7, no. 4. Webster, 1986, p. 336.
Ordovician, Sandbian (early Trentoniam). United States, New York

Cincinnaticrinus holdfast Sumrall, et al., 2007, p. 32, Fig. 3, no. 4.
Ordovician, Katian (Maysvillian), Fairview Formation. United States, Kentucky

Cincinnaticrinus stem segment Morris and Felton, 2003, p. 551, Fig. 2, no. F.
Ordovician, Katian (Cincinnatian), upper part of Kope Formation. United States, Ohio

Cincinnaticrinus varibrachialus Warn and Strimple, Meyer et al., 2002, p. 727, Fig. 2, nos. 1, 8. Rozhnov, 2002, p. S576, Fig. 38. (diagramatic)
Ordovician, Katian, Kope and Fairview Formations. United States, Ohio, Kentucky

Cincinnaticrinus spp.
Donovan and Schmidt, 2001, p. 263, Figs. 2-3. Donovan and Lewis, 2008b, Fig. 3.
Ordovician, Katian (Cincinnatian), Kope Formation and Liberty Formation. United States, Kentucky, Ohio, Indiana
Donovan, 2003, p. 238, Fig. 1, nos. b-c.
Ordovician, Katian?. United States, Kentucky, Ohio
Brett, Deline and McLaughlin, 2008, p. 27, Fig. 2.4, nos. 1-2.
Ordovician, Katian (Cincinnatian, Edenian), Kope Formation. United States, Ohio

CIONERISMA Moore and Jeffords, 1968. **C. exile* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 76. Webster, 1973, p. 281. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species: 1 Silurian, Niagaran species
Silurian, Niagaran. United States

**Cionerisma exile* Moore and Jeffords, 1968, p. 76, Pl. 23, fig. 5. Webster, 1973, p. 281.
Silurian, Niagaran, Waldron Shale. United States, Indiana

Circular column Riddle, 1989, p. 891, Fig. 1, nos. 1-2. Webster, 1993, p. 137.
Age uncertain

Circular columnal sp. Donovan et al.,2012, p. 231.
Devil's Dingle Morphology 2 Veltkamp and Donovan, 1984, p. 192 Fig. 3, nox. C-E. Donovan et al , 2012, p. 231.
Silurian, Llandoverian (Telychian), Hughley Shales. United Kingdom, Shropshire

Circular crinoid columnal Sumrall, Sprinkle, and Bonem, p. 230, Fig. 2.15.
Pennsylvanian, Morrowan, Golf Course Formation, unnamed unit 1. United States, Oklahoma

CIRCUMBRELLA Termier and Termier, 1974. *Nomen nudum*
Termier, H. and Termier, G., 1974, p. 33. Webster, 1986, p. 336.
Late Devonian. Morocco

Circumbrella sp. 1 Termier, H. and Termier, G., 1974, p. 33, Pl. 2, fig. 5 (typographical error as *Cyclumbrella* on plate explanation, p. 38). Webster, 1986, p. 336.
Late Devonian. Moroccco

Cirrales, genre et espece indetermines Le Menn, 1981, p. 271, Pl. 33, figs. 28-30 (not Pl. 32 as given p. 271). Webster, 1988, p. 175.
Devonian, Late Emsian. France, Armorican Massif

Cirriferous holdfasts Prokop and Petr, 2001b, p. 265, Fig. 7, nos. a-b.
Silurian, Pridolian, Pridoli Limestone. Czech Republic

Cirrus lobolith Prokop and Petr, 2001b, p. 262, Fig. 3.
Silurian, Pridolian, Pridoli Limestone. Czech Republic

Cirrus loboliths Haude and Wallliser, 1998, p. 94, Fig. 1.
Silurian, late Pridoli. Morocco

Cirrus root Brower, 1976, p. 676, Pl. 102, fig. 3. Webster, 1986, p. 395.
Mariacrinus flabellatus Salter, 1873, p. 122 (part) (*nomem nudum*). Bassler and Moodey, 1943, p. 546. Brower, 1976, p. 676.
Silurian, Wenlockian, Wenlock Limestone. United Kingdom

Cladid inadunate crinoid Donovan and Sevastopulo, 1985, p. 179, Figs. 1-3. Webster, 1988, p. 175.
Mississippian, Salthill Cap Beds. United Kingdom, Scotland

Cladid sp. indet. Donovan and Lewis, 2010, p. 12, Fig. 2.
Silurian, Wenlockian, Much Wenlock Limestone Formation. United Kingdom, Shropshire

CLADOSTOMA Rafinesque, 1819. *Nomen nudum*
Rafinesque, 1819, p. 249. Jeffords *in* Moore and Teichert, 1978, p. T932.

Cladostoma flexuosa Rafinesque, 1819, p. 249 (*nomen nudum*), no description.

Cladostoma leioperis Rafinesque, 1819, p. 249 (*nomen nudum*), no description.

CLAVATICRINUS Polozhichina, 1980. **C. lobatus* Polozhichina, 1980.
Polozhichina, 1980, p. 118. Stukalina, 1986, p. 71. Webster, 1986, p. 336. Webster, 1993, p. 137.
PENTAPETALOCRINUS Dubatolova, 1980, p. 122. **P. quinquerimalis* Dubatolova,
1980. Stukalina, 1986, p. 71. Webster, 1986, p. 377. Stukalina, 1991, p. 169.

Webster, 1993, p. 137.

Note. Sukalina,1986, p. 71 placed *Pentapetalocrinus* in synonomy of *Clavaticrinus.* Both genera were named in 1980. As the first revisor her revision has presidence over Zinevich, 1988, who also placed *Clavaticrinus* in synonomy of *Pentapetalocrinus.*

Recognized number of named columnal species: 8 Devonian species, 1 Pragian, 2 Emsian, 1 Emsian – Eifelian, 1 Early Devonian uncertain, 2 Eifelian, 1 Middle Devonian uncertain

Early - Middle Devonian, Kazakhstan Horizon. Central Kazakhstan; Russia

Clavaticrinus buchtarmensis (Dubatolova, 1988).

Pentapetalocrinus buchtarmensis Dubatolova, 1988, p. 71, Pl. 15, figs. 4-7; Fig. p. 68, no. e. Webster, 1993, p. 180.

Middle Devonian, Ilin Suite (upper part of Beloubin Suite). Russia, Altai Mountains

Clavaticrinus curtus (Dubatolova, 1964).

Pentapetalocrinus curtus (Dubatolova, 1964). Dubatolova, 1990, p. 118, Pl. 16, figs. 4a-4b; Fig. 22, nos. A-B. Webster, 1993, p. 180.

Devonian, Pragian. Russia, West Siberian Platform

**Clavaticrinus lobatus* Polozhichina, 1980, p. 119, Pl. 23, fig. 33. Webster, 1986, p. 336. Stukalina, 1991, p. 170, Pl. 42, figs. 11-13; Fig. 13, nos. a-v.

Early Devonian, Kazakhstan Horizon. Central Kazakhstan

Clavaticrinus plurisquamosus (Zinevich, 1988).

Pentapetalocrinus plurisquamosus Zinevich, 1988, p. 18, fig. 2; Fig. p. 81, no. b. Webster, 1993, p. 181.

Devonian, Eifelian, Losishin Suite. Russia, Altai Mountains

Clavaticrinus quinquerimalis (Dubatolova, 1980).

Pentapetalocrinus quinquerimalis Dubatolova, 1980, p. 122, Pl. 17, figs. 9-10; Fig. 14. Webster, 1986, p. 377.

Devonian, late Emsian, Zlikhov Layer. Russia, Altai Mountains

Clavaticrinus retusus (Dubatolova, 1980).

Pentapetalocrinus retusus Dubatolova, 1980, p. 123, Pl. 17, figs. 7-8; Fig. 15. Webster, 1986, p. 377.

Devonian, late Emsian - Eifelian. Russia, Altai Mountains

Clavaticrinus rimalolobatus (Dubatolova, 1980).

Pentapetalocrinus rimalolobatus Dubatolova, 1980, p. 24, Pls. 17, fig. 11; 18, fig. 1; Fig. 16. Webster, 1986, p. 377.

Devonian, late Emsian, Zlikhov Layer. Russia, Altai Mountains

Clavaticrinus tschernyhi (Zinevich, 1988).

Pentapetalocrinus tschernyhi Zinevich, 1988, p. 80, Pl. 18, fig. 2; Fig. p. 81, no. a. Webster, 1993, p. 181.

Devonian, Eifelian, Losishin Suite. Russia, Rudny Altai

CLEIOCRINUS Billings, 1857.
Recognized number of named columnal species: 3 Ordovician species, 1 Middle Devonian, series uncertain, 2 Katian
Middle Ordovician, series not designated. United States, New York
Ordovician, Katian. Canada, Ottawa

Cleiocrinus billingsi Ford and Dwight, 1886, p. 252, Pl. 7, fig. 5. Bassler, 1915, p. 230. Bassler and Moodey, 1943, p. 364.
Middle Ordovician, Taconic series. United States, New York

Cleiocrinus grandis Billings, 1859, p. 54, Pl. 5, figs. 2a-2c. Shumard, 1868, p. 359. Bigsby, 1868, p. 18. Miller, S. A., 1889, p. 231. Bassler, 1915, p. 230. Bassler and Moodey, 1943, p. 364. Wilson, 1946, p. 24. Webster, 1973, p. 281.
Ordovician, Katian, Trenton, Cobourg Limestone; Hull Limestone. Canada, Ottawa

Cleiocrinus magnificus Billings, 1859, p. 54, Pl. 5, fig. 3. Shumard, 1868, p. 359. Bigsby, 1868, p. 18. Miller, S. A., 1889, p. 232. Springer, 1905, p. 111, Pl. 1, figs. 11-12. Bassler, 1915, p. 230. Bassler and Moodey, 1943, p. 365. Wilson, 1946, p. 24. Webster, 1973, p. 281.
Ordovician, Katian, Trenton, Cobourg Limestone; Hull Limestone. Canada, Ottawa

Cleiocrinus? sp. Brett and Liddell, 1978, p. 339, Figs. 5, no. E; 6-7. Webster, 1986, p. 336.
Ordovician, Katian, Trentonian, Bobcaygeon Formation. Canada, Ontario

CLEMATIDISCUS Moore and Jeffords, 1968. **C. denotatus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 74. Webster, 1973, p. 281. Jeffords *in* Moore and Teichert, 1978, p. T932.
Recognized number of named columnal species:1 Devonian, Pragian species
Devonian, Pragian (Erian). United States

**Clematidiscus denotatus* Moore and Jeffords, 1968, p. 74, Pl. 22, figs. 9-11. Webster, 1973, p. 281.
Devonian, Pragian (Erian), Wanakah Shale. United States, New York

CLONOCRINUS Quenstedt, 1876.
Middle Silurian - Early Devonian. Europe, United States

Clonocrinus sp. Franzén-Bengtson, 1983, p. 296, Fig. 7, no. B. Webster, 1988, p. 175.
Silurian, Slite Beds. Sweden, Isle of Gotland

CODIACRINUS Schultz, 1866.
Haude, 1981, p. 188, Fig. 2, left.
Late Silurian - Middle Devonian. Europe, Australia

Cog-wheel crinoid columnal Conkin and Conkin, 1976, p. 220, Pl. 5. Conkin and Conkin, 1984, p. 34, Fig. 5. Webster, 1988, p. 175.
Devonian, Jeffersonville Limestone. United States, Kentucky

Coil of crinoid joints Foerste, 1884, Fig. p. 57.
Silurian, Niagaran, Clinton Group. United States, Ohio

Coiling stems Franzén, 1977, p. 227, Figs. 2, no. B; 7, nos. A-C. Webster, 1986, p. 395.
Silurian, Llandoverian-Wenlockian. Sweden, Isle of Gotland

COLPODECRINUS Sprinkle and Kolata, 1982.
Recognized number of named columnal species: 2 Ordovician species, 1 Sandbian, 1 Sandbian - Katian
Ordovician, Sandbian – Katian. United States

Colpodecrinus forbesi Donovan, 1983c, p. 846, Figs. 1, nos. A-B; 2, nos. A-B, D. Donovan, 1986d, p. 42, Pl. 2, figs. 9, 12; Fig. 10, nos. A-B. Webster, 1988, p. 175. Webster, 1993, p. 138. Donovan, Paul, and Lewis, 1996,np. 219, Pl. 38, fig. 2.
Ordovician, Sandbian – Katian (Caradocian – Ashgillian), Bala Limestone, Glanrafon Beds. United Kingdom

Colpodecrinus quadrifidus Sprinkle and Kolata, 1982. Donovan, 1983c, p. 847, Fig. 2, no. E. Webster, 1988, p. 176.
Ordovician, Sandbian, Bromide Formation, Upper part of Mountain Lake Member. United States, Oklahoma

Column
Etheridge, 1892, p. 115, Pl. 13, figs. 5-6.
Permian, Upper Marine Series. Australia, New South Wales
Etheridge, 1892, p. 116, Pl. 17, fig. 5.
Permian, Upper Marine Series. Australia, New South Wales
Etheridge, 1892, p. 116, Pl. 18, fig. 2.
Permian, Upper Marine Series. Australia, New South Wales
Etheridge, 1892, p. 117, Pl. 18, fig. 4.
Permian, Muree Rock, Upper Marine Series. Australia, New South Wales
Ausich and Sevastopulo, 1994, p. 248, Fig. 3, no. C.
Mississippian, late Tournaisian, Hook Head Formation. Ireland

Column of unknown crinoid Eckert and Brett, 2001, p. 7, Fig. 1, no. H.
Glyptocrinus plumosus Hall1852. Eckert and Brett, 2001, p. 7.
Silurian, middle Llandoverian, Reynales Limestone. United States, New York

Column segment with cirrus attachment facets Guensburg, 1984, p. 70, Pl. 14, fig. 16. Webster, 1988, p. 176.
Ordovician, Sandbian, Lebanon Limestone. United States, Tennessee

Columnaire de Camerata
Termier and Termier, 1950, p. 204, Pl. 210, fig. 18. Webster, 1973, p. 325.
Devonian, Eifelian. Morocco
Termier and Termier, 1950, p. 236, Pl. 226, figs. 1-4. Webster, 1973, p. 325.
Silurian, late Wenlockian. Morocco

Columnaire de Camerata Diplobathra Termier, H. and Termier, G., 1952, p. 168, Pl. 16, fig. 9.
No age of locality given

Columnaire de Camerata Monobathra Termier, H. and Termier, G., 1952, p. 168, Pl. 16, fig. 8.
No age of locality given

Columnaire de Diplobathra
Termier and Termier, 1950, p. 204, Pl. 210, figs. 13-14. Webster, 1973, p. 325.
Devonian, Pragian (Siegenian). Morocco
Termier and Termier, 1950, p. 204, Pl. 210, fig. 15. Webster, 1973, p. 325.
Devonian, Emsian. Morocco
Termier and Termier, 1950, p. 204, Pl. 210, fig. 17. Webster, 1973, p. 325.
Early Devonian, series uncertain. Morocco

Columnaire de Flexibilia indéterminé Termier and Termier, 1950, p. 210, Pl. 213, figs. 34-35. Webster, 1973, p. 325.
Middle Devonian, series uncertain. Morocco

Columnaire de Monobathra indéterminé
Termier and Termier, 1950, p. 206, Pl. 211, fig. 44. Webster, 1973, p. 325.
Silurian, late Wenlockian or Early Devonian, series uncertain. Morocco
Termier and Termier, 1950, p. 240, Pl. 228, figs. 25-26. Webster, 1973, p. 325.
Mississippian, late Viséan. Morocco

Columnaire de Platycrinidé Termier, H. and Termier, G., 1952, p. 168, Pl. 16, fig. 10.
No age or locality given

Columnaire du groupe des Cyclici (Crotalocrinid?) Termier, H. and Termier, G., 1974, p. 33, Pl. 8, figs. 1-2. Webster, 1986, p. 395.
Devonian, Pragian - Emsian. Morocco

Columnaire du groupe des Cyclici (*Gilbertsocrinus*?) Termier, H. and Termier, G., 1974, p. 33, Pl. 8, fig. 5. Webster, 1986, p. 395.
Devonian, Pragian – Emsian. Morocco

Columnaire du groupe des Cyclici (Platycrinide?) Termier, H. and Termier, G., 1974, p. 33, Pl. 8, fig. 4. Webster, 1986, p. 395.
Devonian, Pragian - late Emsian. Morocco

Columnaire d'un genre indéterminé Termier, G. and Termier, H., 1950, p. 238, Pl. 227, fig. 18. Webster, 1973, p. 325.
Mississippian, Viséan. Algeria

Columnaire indéterminée
Termier, G. and Termier, H., 1950, p. 204, Pl. 210, fig. 21. Webster, 1973, p. 325.
Pennsylvanian, Westphalian. Algeria
Termier, G. and Termier, H., 1950, p. 206, Pl. 211, figs. 45-48. Webster, 1973, p. 325.
Devonian, Pragian (Siegenian). Morocco
Termier, G. and Termier, H., 1950, p. 204, Pl. 210, fig. 16. Webster, 1973, p. 326.
Devonian, Emsian. Morocco
Termier, G. and Termier, H., 1950, p. 236, Pl. 226, figs. 32-33. Webster, 1973, p. 326.
Middle Devonian, series uncertain. Algeria
Termier, G. and Termier, H., 1950, p. 240, Pl. 228, figs. 27-28. Webster, 1973, p. 326.
Mississippian, late Viséan. Algeria

Columnal a Strimple, 1963d, p. 126, Pl. 12, fig. 1. Webster, 1973, p. 326.
Silurian, Niagaran, Henryhouse Formation. United States, Oklahoma

Columnal b Strimple, 1963d, p. 126, Pl. 12, fig. 2. Webster, 1973, p. 326.
Silurian, Niagaran, Henryhouse Formation. United States, Oklahoma

Columnal c Strimple, 1963d, p. 126, Pl. 12, fig. 3. Webster, 1973, p. 326.
Silurian, Niagaran, Henryhouse Formation. United States, Oklahoma

Columnal d Strimple, 1963d, p. 126, Pl. 12, fig. 4. Webster, 1973, p. 326.
Silurian, Niagaran, Henryhouse Formation. United States, Oklahoma

Columnal dispar (Moore, 1939). *Nomen vetitum*
Moore and Laudon, 1944, p. 209, Pl. 79, fig. 9. Webster, 1973, p. 326.
Pennsylvanian, Missourian, Coffeyville Formation. United States, Kansas

Columnal ellipticus Strimple, 1962. *Nomen vetitum*
Strimple 1962a, p. 4, figs. 1-3. Webster, 1973, p. 326. Bowsher and Strimple, 1986, p. 8, Fig. 18, nos. a-c, not a-e as given in figure explanation (after Strimple, 1962a). Webster, 1993, p. 138.
Pennsylvanian, Desmoinesian, Pumpkin Creek Limestone. United States. Oklahoma

Columnal excentricus (Moore, 1939). *Nomen vetitum*
Moore and Laudon, 1944, p. 209, Pl. 79, fig. 14. Strimple, 1962e, p. 56, Pl. 7, figs. 3-4. Webster, 1973, p. 326.
Pennsylvanian, Desmoinesian, Mineral Coal Cap, Oologah Limestone. United States, Kansas, Oklahoma
Devonshire, 1954, Pl. 1, fig. 8. Devonshire, 1955, Pl. 1, fig. 8. Webster, 1977, p.

192.
Pennsylvanian, Desmoinesian, Pumpkin Creek Limestone. United States, Oklahoma
Pitakpaivan, Ingavat, and Pariwatvorn, 1969, p. 59, Pl. 14, figs. 1-2. Webster, 1993, p. 138.
Carboniferous. Thailand

Columnal, Form A Titus, 1979, p. 112, Fig. 7, no. 1. Webster, 1986, p. 395.
Ordovician, early Trenton. United States, New York

Columnal, Form B Titus, 1979, p. 112, Fig. 7, no. 13. Webster, 1986, p. 395.
Ordovician, early Trenton. United States, New York

Columnal gen. et sp. nov. Donovan, 1994, p. 77, Fig. 8, no. H.
Ordovician, Hirnantian, Glyn Formation. United Kingdom, Wales

Columnal granulosus (Moore, 1939). *Nomen vetitum*
Moore and Laudon, 1944, p. 209, Pl. 79, fig. 13. Webster, 1973, p. 326.
Pennsylvanian, Desmoinesian, Savanna Formation. United States, Oklahoma

Columnal intermidia Byrne and Seeberger, 1942. *Nomen vetitum*
Byrne and Seeberger, 1942, p. 222, Pl. 1, figs. 3-4. Webster, 1973, p. 326.
Permian, Wolfcampian, Americus Limestone. United States, Kansas

Columnal maxima Byrne and Seeberger, 1942. *Nomen vetitum*
Byrne and Seeberger, 1942, p. 223, Pl. 1, figs. 5-6. Webster, 1973, p. 326.
Permian, Wolfcampian, Hughes Creek Shale. United States, Kansas

Columnal minima Byrne and Seeberger, 1942. *Nomen vetitum*
Byrne and Seeberger, 1942, p. 222, Pl. 1, figs. 1-2. Webster, 1973, p. 326.
Permian, Wolfcampian, Hughes Creek Shale. United States, Kansas

Columnal nodosa Strimple, 1962e, p. 55, Pl. 7, figs. 1-2. Webster, 1973, p. 326.
Pennsylvanian, Desmoinesian, Oologah Limestone. United States, Oklahoma

Columnal of undetermined crinoid Elias, 1957, Pl. 41, fig. 20.
Mississippian, Serpukhovian (Chesterian), Goddard Shale, Redoak Hollow Member. United States, Oklahoma

Columnal of unknown crinoid Eckert and Brett, 2001, p. 7
Glyptocrinus sp. Hall, 1852. Eckert and Brett, 2001, p. 7,Fig. 1,no. H.
Glyptocrinus - ? Hall, 1852c, p. 5, Pl. A41, no. 4.
Silurian, Wenlockian, Clinton Group. United States, New York

Columnal quadrangulatus Strimple, 1962a, p. 3, Figs. 4-7. Webster, 1973, p. 326.
Bowsher and Strimple, 1986, p. 8, Fig. 19, nos. a-d. Webster, 1993, p. 138.
Pennsylvanian, Desmoinesian, Pumpkin Creek Limestone. United States. Oklahoma

Columnal spicatus (Moore, 1939). Moore and Laudon, 1944, p. 209, Pl. 79, fig. 20. Webster, 1973, p. 326.
Pennsylvanian, Missourian, Coffeyville Formation. United States, Kansas

Columnal termination.
Strimple, 1963d, p. 26, Pl. 11, fig. 1. Webster, 1973, p. 327.
Silurian?. United States, Oklahoma
Strimple, 1963d, p. 27, Fig. 3, no. c. Webster, 1973, p. 326.
Silurian?. United States, Oklahoma
Strimple, 1963d, p. 27, Fig. 3, no. b. Webster, 1973, p. 326.
Silurian?. United States, Oklahoma

Columnal type A1Haude, 2004b, p. 242, unfig.
Devonian, late Famennian, Etröungt, Middle *expansa* Biozone. Germany

Columnal type A2 Haude, 2004b, p. 242, Pl. 2, fig. 17.
Devonian, late Famennian, Etröungt, Middle *expansa* Biozone. Germany

Columnal type A3 Haude, 2004b, p. 242, Pl. 2, figs. 20-21.
Devonian, late Famennian, Etröungt, Middle *expansa* Biozone. Germany

Columnal type B 1 Haude, 2004b, p. 242, Pl. 2, figs. 18-19.
Devonian, late Famennian, Etröungt, Middle *expansa* Biozone. Germany

Columnal type B 2 Haude, 2004b, p. 242, unfig.
Devonian, late Famennian, Etröungt, Middle *expansa* Biozone. Germany

Columnal type C Haude, 2004b, p. 242, Pl. 2, figs. 22-23.
Devonian, late Famennian, Etröungt, Middle *expansa* Biozone. Germany

Columnal uncertain Webster et al., 2004, p. 62, Pl. 17, figs. 17-18.
Pennsylvanian, Bashkirian, upper part of Hassi Kerma Formation. Algeria

Columnal with a tetralobate lumen Donovan, 1989d, p. 93, Fig. 34, nos. E-F. Webster, 1993, p. 138.
Ordovician. United Kingdom

Columnal with a V-shaped lumen Donovan, 1989d, p. 87, Fig. 33, no. E. Webster, 1993, p. 138.
Ordovician, Katian (Ashgillian). Rhiwlas Limestone. United Kingdom

Columnale, genre et espece indetermines Colchen and Ubaghs, 1969, p. 652, Fig. 10. Webster, 1977, p. 227.
Late Cambrian - Early Ordovician. Spain

Columnales dissociciées de Crinoïdes Le Menn and Melendez, 1988, p. 474, Figs. 1, 2. Webster, 1993, p. 138.

Ordovician. Spain

Columnals Moore, 1939b, p. 170, Fig. 2, nos. 8-10, 17 (4 species).
Mississippian, Viséan (Osagean). United States

Columnals Turek, 1988, p. 374, Fig. 1.
Devonian, Emsian (Zlichovian). Czech Republic

Columnals Kalvacheva and Prokop, 1988, p. 91, Figs. 1-3, 5. Webster, 1993, p. 138.
Early Paleozoic, possibly Devonian. Bulgaria, Sipka Balkan Mountain

Columnals Fearnhead and Harper, 2007, p. 71, Fig. 1, no. F.
Silurian, early Llandoverian, Mulloch Hill Sandstone Formation. United Kingdom, Scotland

Columnals lot #1. Webster et al., 2003, p. 32.
Mississippian, Tournaisian, Sardar Formation. Iran, Kerman Province

Columnals lot #2. Webster et al., 2003, p. 32.
Mississippian, Tournaisian, Sardar Formation. Iran, Kerman Province

Columnals lot #3. Webster et al., 2003, p. 32.
Mississippian, Tournaisian, Sardar Formation. Iran, Kerman Province

Columnals lot #4. Webster et al., 2003, p. 32.
Mississippian, Tournaisian, Sardar Formation. Iran, Kerman Province

Columnals lot #5. Webster et al., 2003, p. 32.
Mississippian, Tournaisian, Sardar Formation. Iran, Kerman Province

Columnals of crinoids Branisa, 1965, Pl. 8, fig. 33. Webster, 1977, p. 227.
Devonian, series uncertain. Bolivia

Columnals of unknown crinoids Elias, 1957, Pl. 41, figs. 16-18.
Mississippian, Chesterian, Goddard Shale, Redoak Hollow Member. United Staes, Oklahoma

Columnea of the group Cyclici Termier and Termier, 1974, p. 46, Pl. 6, fig. 8. Webster, 1986, p. 395.
Devonian, Pragian. Morocco

Columnea of the group with Cyclici sp. Termier and Termier, 1974, p. 46, Pl. 6, fig. 5. Webster, 1986, p. 395.
Devonian, Pragian. Morocco

Colunares de crinóides Piçarra and Le Menn, 1994, p. 17, Pl. 1, figs. 1-4.
Late Ordovician or post Late Silurian, Estremoz Carbonated Sedimentary Complex. Portugal

Columns of *Cleiocrinus* species Guensburg, 1984, p. 23, Pl. 1, figs. 1-2, 10, 25.
Webster, 1988, p. 176.
Ordovician, Sandbian, Lebanon Limestone. United States, Tennessee

Columns of Crinoidea
Phillips, 1839, p. 674, Pl. 18, figs. 2, 9.
Silurian, Llandeilian. United Kingdom
Owen and Norwood, 1847, p. 6, Unnum. Pl., fig. 13. (*Platycrinites* sp. GDW)
Mississippian, series uncertain. United States, Kentucky

COMPOSITOCRINUS Stukalina, 1979. **Pentagonopentagonalis compositus* Yeltyschewa, 1955.
Stukalina, 1979a, p. 141. Stukalina, 1986, p. 56. Webster, 1986, p. 336. Webster, 1988, p. 176. Webster, 1993, p. 138.
Recognized number of named columnal species: 2 species. 1 Ordovician, Darriwilian
– Sandbian, 1 Silurian, Llandoverian
Middle Ordovician. Russia, Siberian Platform
Sillurian, Llandoverian. Tadzhikstan, Zeravshan-Gissar Mountain region

**Compositocrinus compositus* (Yeltyschewa, 1955). Stukalina, 1979a, p. 141, Pl. 30, fig. 7; Fig. 31, no. a. Stukalina, 1984, p. 98, Pl. 37, fig. 6. Stukalina, 1986, p. 56, Figs. 10, no. 8; 12, no. 1. Webster, 1986, p. 336. Webster, 1988, p. 176. Webster, 1993, p. 138.
Pentagonopentagonalis compositus Yeltyschewa, 1955a, p. 42, Pl. 23, fig. 1. Yeltyschewa, 1960, p. 10, Pl. 1, figs. 1-2. Yeltyschewa and Stukalina, 1963, p. 31. Schewtschenko, 1964, p. 11, Pls. 2, figs. 6-7; 3, fig. 3. Webster, 1973, p. 280.
Webster, 1986, p. 336.
Bystrowicrinus compositus (Yeltsychewa, 1955). Yeltyschewa and Stukalina, 1963, p. 31, Pl. 2, fig. 6; Fig. 2 (typographical error as *B. angustilobatuc*, p. 29). Schewtschenko, 1971, p. 6, Pl. 1, figs. 10-12; Fig. 3. Webster, 1977, p. 190. Webster, 1986, p. 336.
Ordovician, Darriwilian – Sandbian, Silurian,Llandoverian, Mangazeisk Horizon; Baksan Horizon. Russia, Siberian Platform, Taymyr, Nova Zemlya
Silurian, Llandoverian**.** Tadzhikstan, Zeravshan-Gissar Mountain Region

Compound discoid holdfasts Ausich and Copper, 2010, p. 75, Pl. 14, figs. 1-4, 8.
Orodvician, Katian, Vauréal Formation, Homard Member; Silurian, Llandoverian, Jupiter Formation, Cybèle Member; Canada, Quebec, Anticosti Island

Compound holdfast spp.
Brett, 1981b, p. 348, Fig. 3, no. G. Webster, 1988, p. 176.
Ordovician, Sandbian, Bobcaygeon Limestone. Canada, Ontario
Brett, 1981b, p. 348, Fig. 3, no. H. Webster, 1988, p. 176.
Ordovician, Sandbian, Bobcaygeon Limestone. Canada, Ontario

COMPTOCRINUS Stukalina, 1979. **Pentagonopentagonalis comptus* Yeltyschewa, 1955.

Stukalina, 1979a, p. 149. Stukalina, 1986, p. 76. Webster, 1986, p. 337. Webster, 1988, p. 176.

Webster, 1993, p. 139. Donovan, 1995b, p. 133.

Recognized number of named columnal species: 1 Late Ordovician – Early Silurian species

Late Ordovician – Early Silurian. Russia***,*** *Taymyr, Siberian Platform*

**Comptocrinus comptus* (Yeltyschewa, 1955). Stukalina, 1979a, p. 150, Pl. 312, figs. 12-14; Fig. 32, no. v. Stukalina, 1982c, p. 179, Fig. 11, no. 6. Stukalina, 1984, p. 102, Pl. 37, figs. 15-17. Stukalina, 1986, p. 76, Pl. 18, figs. 7-9. Webster, 1986, p.

337. Stukalina, 1988c, Fig. 29, no. 3. Webster, 1988, p. 176. Webster, 1993, p. 139.

Pentagonopentagonalis comptus Yeltyschewa, 1955a, p. 45, Pl. 37, fig. 7. Yeltyschewa, 1960, p. 14, Pl. 3, figs. 6-9. Yeltyschewa and Stukalina, 1963, p. 36, Pl. 1, figs. 10-12; Fig. 6. Yeltyschewa and Stukalina, 1964b, p. 75, Pl. 15, fig. 16. Webster, 1973, p. 312.

Middle - Late Ordovician – Early Silurian, upper part of Mangazeisk Horizon; upper part of Baksan Horizon; lower part of Dolbor Horizon. Russia, Siberian Platform, Taymyr

Comptocrinus (col) sp. aff. *C. comptus* (Yeltyschewa, 1955). Donovan, 1994, p. 77, Fig. 8, no. B. Donovan, 1995a, p. 14, Fig. 2, no. b. Donovan, 1995b, p. 133, Fig. 44, nos. F-G.

Ordovician, Hirnantian (Ashgillian), Glyn Formation. United Kingdom, Wales

Comptocrinus sp. Donovan, 1995b, p. 133, Fig. 48, no. J.

Ordovician, late Llanvirnian, Ffairfach Group. United Kingdom

CONCAVICRINUS Stukalina, 1997. **Pentagonocyclicus concavus* Stukalina, 1973.

Stukalina, 1997c, p. 41, Fig. 3, no. d. Stukalina, 1997d, p. 607, Fig. 3, no. d.

Recognized number of named columnal species: 1Early – Middle Carboniferous species

Early – Middle Carboniferous. Mongolia; Russia, Transbaikal

**Concavacrinus concavus* (Stukalina, 1973).

Pentagonocyclicus concavus Stukalina, 1973, p. 45, Pl. 5, fig. 11. Webster, 1977, p. 210.

Early-Middle Carboniferous. Russia, Transbaikal

Early-Middle Carboniferous. Mongolia

CONCRETUM de Gregorio, 1930. **C. perplexum* de Gregorio, 1930.

de Gregorio, 1930, p. 42. Bassler, 1938, p. 71. Bassler and Moodey, 1943, p. 371. Jeffords *in* Moore and Teichert, 1978, p. T937 (unrecognizable, ? columnal). Pseudocrynoidea - sponges?

Recognized number of named columnal species: 1 Permian, Wordian species

Permian, Wordian. Sicily

**Concretum perplexum* de Gregorio, 1930, p. 42, Pl. 15, figs. 8-11. Bassler and Moodey, 1943, p. 371 (unrecognizable).
Concretum perplexus de Gregorio, 1930. Bassler, 1938, p. 71.
Permian, Wordian. Sicily

Concretum perplexus de Gregorio, 1930 = **Concretum perplexum*

CONSPECIOCRINUS Stukalina, 1969 = ***CONSPECTOCRINUS***

CONSPECTOCRINUS Stukalina, 1969. **C. conspectus* Stukalina, 1969.
Stukalina, 1969, p. 213, Fig. 3, no. 4. Le Menn *in* Chauvel and Le Menn, 1973, p. 47. Webster, 1977, p. 192. Stukalina, 1986, p. 65. Webster, 1986, p. 337. Webster, 1993, p. 139. Donovan, 1995b, p. 133. Wolfart, 2001, p. 218.
CONSPECIOCRINUS Stukalina, 1969. Jeffords *in* Moore and Teichert, 1978, p.
T932 (sic).
Recognized number of named columnal species: 5 Ordovician species, 1 Darriwilian,
1 Sandbian, 2 Sandbian – Katian, 1 Katian
Ordovician, Darriwilian, Sandbian – Katian. Kazakhstan
Ordovician, Sandbian – Katian. Uzbekistan

Middle - Late Ordovician. Russia, Central Kazakhstan, France

Conspectocrinus celticus Le Menn *in* Chauvel and Le Menn, 1973, p. 48, Pl. 1, figs. 7-9. Le Menn *in* Chauvel, Melendez, and Le Menn, 1975, p. 359, Pl. 3, figs. 4-5. Webster, 1977, p. 192. Stukalina, 1978a, p. 159, Pl. 35, figs. 10-13. Stukalina, 1986, p. 65, Pl. 13, figs. 5-12. Webster, 1986, p. 337. Stukalina, 1988c, p. 61, Pl. 8, figs. 13-19. Webster, 1993, p. 139. Donovan, 1995b, p. 133, Fig. 43, nos. L-N. Botquelen, Le Menn, and Loi, 2006, p. 19, Fig. 3, nos. 17, 19-20. Rakhmonov and Ghobadi Pour, 2008, p. 58, Pl. 107, figs. 11-13.
Middle - Late Ordovician; Sholeshook Limestone. Russia; France, Spain, United Kingdom
Ordovician, Ashgillian, Tuviois. Sardinia
Ordovician, early Sandbian- Katian (early Caradocian), Obikalon Beds. Uzbekistan, Southern Tien Shan, Zeravshan Range

Conspectocrinus cf. *celticus* Le Menn, 1973. Le Menn *in* Chauvel and Le Menn, 1979, p. 576. Webster, 1986, p. 337.
Ordovician, Sandbian – Katian, Ashgillian. Spain, Fombuena

Conspectocrinus sp. cf. *celticus* Chauvel and LeMenn,1973. Wolfart, 2001, p. 218, Pl. 13, figs. 4-6; Fig. 12, no. b.
Middle or early Late Ordovician, Thong Pha Phum Silt-/Mudstone Formation. Thailand

**Conspectocrinus conspectus* Stukalina, 1969, p. 214, Pl. 1, figs. 13-15; Fig. 6. Webster, 1977, p. 192. Stukalina, 1986, p. 56, Pl. 13, figs. 1-4. Stukalina, 1988c, p. 61, Pl. 8, figs. 20-21. Webster, 1993, p. 139.
Ordovician, Sandbian – Katian, Dulankaren Horizon, Nadakkol Layer. Kazakhstan, Chingiz, Kandigatari Mountain

Conspectocrinus sp. A aff. *C. conspectus* Stukalina, 1969. Wolfart, 2001, p. 220, Pl. 14, fig. 6; Fig. 12, no. a.
Middle or early Late Ordovician, Thong Pha Phum Silt-/Mudstone Formation. Thailand

Conspectocrinus dulancarensis Stukalina, 1980d, p. 230, Pls. 1, fig. 24; 2, figs. 1-4; Fig. 3, no. 3. Webster, 1986, p. 337.
Ordovician, Katian, Dulankaren Horizon. Eastern Kazakhstan

Conspectocrinus malkeldensis Stukalina, 1980d, p. 230, Pl. 1, fig. 23; Fig. 3, no. 2. Webster, 1986, p. 337.
Ordovician, Sandbian, Anderken Horizon?. Eastern Kazakhstan

Conspectocrinus simplex Stukalina, 1980d, p. 229, Pl. 1, figs. 19-22; Fig. 3, no. 1. Webster, 1986, p. 337.
Ordovician, Darriwilian, Erkebidaik Horizon. Northern Kazakhstan

CONSTRICTOCRINUS Hynda, 1984. **C. gibberulosus* Hynda, 1984.
Hynda, 1984, p. 59. Hynda, 1986, p. 96. Webster, 1988, p. 176. Webster, 1993, p. 139.
Recognized number of named columnal species: 2 species. 1 Ordovician, Sandbian;
1 Silurian, Wenlockian
Ordovician, Sandbian; Silurian, Wenlockian. Russia

**Constrictocrinus gibberulosus* Hynda, 1984, p. 60, Pl. 1, figs. 4-6; Fig. 2, nos. a-b (typographical error as *C. gibberulesus* on plate explanation). Hynda, 1986, p. 96, Pl. 15, figs. 6, 11; Fig. 38. Webster, 1988, p. 176. Webster, 1993, p. 139.
Late Ordovician, Sandbian, Karadok Layer, Idavere Horizon; Kukruze and Rakvera Horizons. Russia, Southwest margin of East European Platform

Constrictocrinus turgidus (Yeltyschewa, 1975). Hynda, 1984, p. 60. Webster, 1988, p. 176.
Desmidocrinus turgidus Yeltyschewa, 1975, p. 126, Pl. 2, figs. 10-15. Hynda, 1984, p. 60. Webster, 1986, p. 349. Webster, 1988, p. 176.
Silurian, Wenlockian, Kitaigorod Horizon, Demshin Layer. Russia, Podolia

COPHINUS Murchison, 1839. **C. dubius* Murchison, 1839.
Murchison, 1839, p. 697. Salter, 1873?, (trace fossil, made by transverse motion of stem in mud). Bigsby, 1868, p. 18. Zittel, 1880, p. 380. Bather *in* Lankester, 1900, p. 202. Bassler, 1938, p. 72. Bassler and Moodey, 1943, p. 371 (stem

impressions). Moore and Laudon, 1943b, p. 104. Webster, 1973, p. 281. Jeffords
in Moore and Teichert, 1978, p. T937 (impression of columnal).
Recognized number of named columnal species: 1 Silurian, late Ludlovian species
Silurian, late Ludlovian. United Kingdom

**Cophinus dubius* Murchison, 1839, p. 697, Pl. 26, fig. 12. Murchison, 1859, p. 147, Pl. 12, fig. 5. Bigsby, 1868, p. 18. Bassler, 1938, p. 72. Bassler and Moodey, 1943, p. 371.
Silurian, late Ludlovian. United Kingdom

CORDONICRINUS Stukalina, 1980. **C. petaloides* Stukalina, 1980.
Stukalina, 1980b, p. 107. Stukalina, 1986, p. 68. Webster, 1986, p. 337. Webster, 1993, p. 139.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. Kazakhstan

**Cordonicrinus petaloides* Stukalina, 1980b, p. 107, Pl. 23, fig. 3; Fig. 19, no. 2 (typographical error as *C. petaloideus*, p. 158). Webster, 1986, p. 337.
Middle Ordovician, Darriwilian, Erkebidaik Horizon, Sandy Limestone. Central Kazakhstan

COSMOCRINUS Jaekel, 1898.
Recognized number of named columnal species: 2 Devonian species, 1 Givetian – Frasnian, 1 Middle – Late Devonian, series uncertain
Devonian, Givetian - Frasnian. Kazakhstan Germany, Poland, North America
Devonian, Famennian. Kazakhstan, Poland

Cosmocrinus distinctus Stukalina, 1977c, p. 159, Pl. 313, figs. 15-18. Webster, 1986, p. 337. Stukalina, 1988c, p. 64, Pl. 13, figs. 14-16. Webster, 1988, p. 177. Stukalina, 1991, p. 167, Pl. 39, figs. 2-5. Webster, 1993, p. 139.
Devonian, Givetian – Frasnian. Eastern Kazakhstan; Poland

Cosmocrinus polonicus Gluchowski, 2002, p. 320, Fig. 2, nos. O-U.
Cosmocrinus distinctus Stukalina, 1977. Gluchowski, 1981b, p. 49, Pl. 3, fig. 12. Gluchowski, 2002, p. 320.
Note: *Cosmocrinus distinctus* has priority over *C. polonicus.*
Devonian, Famennian, *Pa. crepida* to *S. praesulcata* Biozones. Poland
Middle - Late Devonian, Besoba Horizon; Aidarlin? Horizon. Kazakhstan; Poland

COSTALOCRINUS Jaekel, 1918.
Recognized number of named columnal species: 1 Devonian, Givetian species
Devonian, Givetian. Europe, Poland; North America: Canada, Ontario, United States, New York, Kentucky

Costalocrinus sp. McIntosh, 1984, p. 1273, Fig. 5, nos. K-N, P (holdfasts). Webster, 1988, p. 58.

Devonian, Givetian, Centerfield Limestone Member, Ludlowville Formation, Wanakah Shale Member; Moscow Formation, Kashong Shale Member, Windom Shale Member; Hungry Hollow Formation; Beechwood Formation. United States, New York, Kentucky; Canada, Ontario
Devonian, late Givetian. Poland

COSTATOCRINUS Stukalina, 1975. **Pentagonocyclicus bicostatus* Stukalina, 1961. Stukalina, 1966a, p. 98 (*nomen nudum*). Stukalina, 1966b, p. 98. Stukalina *in* Levitskiy and others, 1968, p. 71-72 (*nomen nudum*). Stukalina, 1975, p. 150. Jeffords *in* Moore and Teichert, 1978, p. T932. Stukalina, 1986, p. 83, Fig. 31, no. 1. Webster, 1986, p. 338. Stukalina, 1988c, p. 48, Fig. 30. Webster, 1993, p. 139.
Recognized number of named columnal species: 3 species. 1 Early Silurian, 1late Silurian – early Devonian, Pragian; 1 Devonian, Pragian/Emsian boundary beds
Early Silurian. Russia
Late Silurian – Early Devonian. Russia, Kazakhstan
Devonian, Pragian/Emsian boundary beds. Uzbekistan

**Costatocrinus bicostatus* (Stukalina, 1961). Stukalina, 1975, p. 150, Pl. 36, fig. 11. Webster, 1986, p. 338. Stukalina, 1991, p. 201, Fig. 19, nos. n-o. Kurilenko *in* Kurilenko, et al., 2002, p. 167, Pls. 54, figs. 8a; 55, figs. 11-12. Kurilenko and Kurkov, 2008, p. 464, Fig. 3, no. F.
Pentagonocyclicus bicostatus Stukalina, 1961, p. 36, Pl. 2, fig. 1. Webster, 1973, p. 305. Stukalina, 1975, p. 150. Webster, 1986, p. 338.
Pentagonocyclicus monocostatus Stukalina, 1961, p. 37, Pl. 1, fig. 2. Stukalina, 1965b, p. 135, Pl. 1, figs. 14-16. Webster, 1973, p. 309. Stukalina, 1975, p. 150. Webster, 1986, p. 338.
Pentagonocyclicus tricostatus Stukalina, 1961, p. 37, Pl. 2, fig. 3. Stukalina, 1965b, p. 135, Pl. 1, fig. 17 (mistakenly listed as *P. bicostatus* in text?). Webster, 1973, p. 311. Stukalina, 1975, p. 150. Webster, 1986, p. 338.
Late Silurian - Early Devonian, Karaespin Horizon; Ainasu Horizon, Kokbaital Horizon; Russia, Kazakhstan
Devonian, Lochkovian - Pragian, Ildican Suite, Bolshoi Never Suite. Russia, Far East
Transbaikal

Costatocrinus clamosus Stukalina, 1966a, p. 98 (*nomen nudum*) . Stukalina, 1966b, p. 98. Stukalina, 1988c, Fig. 29, no. 1 (*nomen nudum*), no description. Webster, 1993, p. 139.
Early Silurian. Russia

Costatocrinus perrarus Rakhmonov and Stukalina, 2000, p. 3, Pl. 2, figs. 9-10 (*nomen nudum*, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

COTYLOCRINUS Dubatolova, 1971. **Pentagonocyclicus insignis* Dubatolova, 1964. Dubatolova, 1971, p. 70. Webster, 1977, p. 192. Jeffords *in* Moore and Teichert, 1978, p. T932.

Recognized number of named columnal species: 3 Devonian species, 2 Early Devonian, series uncertain, 1 late Emsian species
Early Devonian, series uncertain, late Emsian. Russia

Cotylocrinus caecus Dubatolova, 1980, p. 133, Pl. 20, figs. 1-3; Fig. 25. Webster, 1986, p. 338.
Devonian, late Emsian, Zlikhov Layer. Russia, Altai Mountains

Cotylocrinus exculcatus (Dubatolova, 1964). Dubatolova, 1971, p. 70. Webster, 1977, p. 192.
Pentagonocyclicus exculcatus Dubatolova, 1964, p. 79, Pl. 11, figs. 11-12. Dubatolova, 1971, p. 70. Webster, 1973, p. 306. Webster, 1977, p. 192.
Early Devonian. Russia, Northeastern Salair, Kuznetz Basin

**Cotylocrinus insignis* (Dubatolova, 1964). Dubatolova, 1971, p. 70. Webster, 1977, p. 192.
Pentagonocyclicus insignis Dubatolova, 1964, p. 80, Pl. 11, fig. 10. Dubatolova, 1971, p. 70. Webster, 1973, p. 308. Webster, 1977, p. 192.
Early Devonian. Russia, Northeastern Salair

Cotylocrinus sp. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 6.
Devonian, late Givetian. Poland

CRAPTOCRINUS Dubatolova, 1971 = ***GRAPTOCRINUS***

Craptocrinus incelebratus (Yeltyschewa and Dubatolova, 1967) = *Graptocrinus incelebratus*

Craptocrinus inconditus (Dubatolova, 1964) = **Graptocrinus inconditus*

Craptocrinus obstupendus (Dubatolova, 1964) = *Graptocrinus obstupendus*

Craptocrinus sp. Le Menn, 1988 = *Graptocrinus* sp.

Creeping or stolon-type holdfast Brett, 1981b, p. 344, Fig. 1, no. A. Webster, 1988, p. 177.
Silurian, Wenlockian, Gasport Limestone. United States, New York

Creeping roots.
Ruhrmann, 1971a, p. 76, Fig. 11, no. a. Webster, 1977, p. 227.
Silurian. Sweden, Isle of Gotland
Brett, 1991, p. 323, Fig. 13, no. N.
Silurian, no stratigraphic information

Creeping stems Franzén, 1977, p. 227, Figs. 2, no. F; 6, no. D. Webster, 1986, p. 395.
Silurian, Wenlockian. Sweden, Isle of Gotland

CREMACRINUS Ulrich, 1886.

Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. United Kingdom, Scotland

Cremacrinus drummuckensis (Ramsbottom, 1961). Donovan, 1986d, p. 31, Figs. 13, nos. B-C; 14, nos. E-F. Webster, 1993, p. 140.
Ordovician, Katian (Ashgillian), Ladyburn Starfish Bed. United Kingdom, Scotland

CRENATAMES Moore and Jeffords, 1968. **C. amicabilis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 71. Dubatolova, 1971, p. 85. Webster, 1973, p. 281. Webster, 1977, p. 193. Jeffords *in* Moore and Teichert, 1978, p. T932. Webster, 1988, p. 177. Webster, 1993, p. 140. Ebert, 1994, p. 45. Scheffler and Fernandes, 2007, p. 92.
Recognized number of named columnal species: 5 Devonian species, 2 late Emsian,
1Givetian, 1 Emsian - Eifelian, 1 uncertain
Devonian, Erian. United States

**Crenatames amicabilis* Moore and Jeffords, 1968, p. 71, Pl. 21, figs. 8-9. Webster, 1973, p. 281. Gluchowski, 1981b, p. 44, Pl. 3, fig. 10. Le Menn, 1988b, p. 468, Pl. 53, fig. 16. Webster, 1988, p. 177. Webster, 1993, p. 140.
Devonian, Givetian (Erian), Wanakah Shale. United States, New York
Devonian, Givetian, Blacourt Formation, Griset Member; Skaly Beds. France; Poland

Crenatames avrensis Dubatolova, 1984, p. 121, Pl. 15, figs. 5-8, Fig. 11. Webster, 1988, p. 177.
Devonian, Vechernin Suite. Russia, Omulev Mountains

Crenatames brachyodontus Dubatolova, 1971, p. 86, Pls. 9, fig. 11; 10, fig. 3; Fig. 3. Webster, 1977, p. 193.
Middle Devonian. Russia, Northeastern Salair

Crenatames crassicrenulatus Ebert, 1994, p. 46, Pl. 3, figs. 2-4, 7; Figs. 42-43, 62, no. a; 71, 74.
Devonian, late Emsian - early Eifelian, *Orthocrinus* to Stöppel Formations. Germany

Crenatames minimus Le Menn, 1981 = *Stukalinaecrinus minimus*

Crenatames sp. Le Menn, 1985, p. 140, Pl. 31, figs. 8-9. Webster, 1988, p. 177.
Devonian, late Emsian, La Grange Limestone. France, Armorican Massif

CRENATOCRINUS Hynda, 1984. **Poteriocrinus biplex* Eichwald, 1860.
Hynda, 1984, p. 60. Hynda, 1986, p. 101. Webster, 1988, p. 177. Webster, 1993, p. 140.
Recognized number of named columnal species: 3 Ordovician species, 1 Darriwilian,
Katian; 2 Katian

Ordovician, Darriwilian, Katian. Estonia
Ordovician, Katian. Russia

**Crenatocrinus biplex* (Eichwald, 1860). Hynda, 1984, p. 60, Pl. 1, fig. 10; Fig. 3 (typographical error as *Crematocrinus biplex* on plate explanation). Hynda, 1986, p. 102, Pl. 16, figs. 9-12; Fig. 41. Webster, 1988, p. 177. Webster, 1993, p. 140.
Poteriocrinus biplex Eichwald, 1856, p. 121 (*nomen nudum*). Eichwald, 1860, p. 587,
Pl. 31, figs. 22a-22c, 42a-42c. Bassler and Moodey, 1943, p. 646. Hynda, 1984, p. 60. Webster, 1988, p. 177.
Pentagonocyclicus biplex (Eichwald, 1860). Yeltyschewa, 1964a, p. 71, Pls. 3, figs. 12-14; 4, fig. 21. Webster, 1973, p. 305. Hynda, 1980, p. 67, Pl. 1, figs. 6-8. Webster, 1986, p. 373.
Ordovician, Darwilian, Katian (Llanvirian, Llandeilian, Caradocian), Kunda Horizon Azer-Lasnamyagin Horizon, Ukhaku Horizon. Estonia

Crenatocrinus obliquus Hynda, 1984, p. 61, Pl. 1, figs. 7-9; Fig. 4. Hynda, 1986, p. 103, Pl. 17, figs. 1-3; Fig. 42. Webster, 1988, p. 177. Webster, 1993, p. 140.
Ordovician, Katian, Molodov Horizon. Russia, Southwest Margin East European Platform

Crenatocrinus vormsiensis (Yeltyschewa, 1975). Hynda, 1986, p. 102, Pl. 17, figs. 4-5. Webster, 1993, p. 140.
Pentagonocyclicus vormsiensis Yeltyschewa, 1975, p. 134, Pl. 1, figs. 4-5. Yeltyschewa, 1979, p. 100. Webster, 1986, p. 345. Hynda, 1986, p. 102. Webster, 1993, p. 140.
Cyclopagoda vormsiensis (Yeltyschewa, 1975). Yeltsychewa, 1979, p. 100, Pl. 2, figs. 6-7. Webster, 1986, p. 345.
Ordovician, Katian, Molodov Suite. Russia, Southwestern Eastern European Platform
Ordovician, Katian, Vormsi Horizon. Estonia

CRINOBRACHIATUS Moore, 1962. **Myelodactylus brachiatus* Hall, 1852.
Webster, 1988, p. 177.
Recognized number of named columnal species:1 Silurian, Niagaran species
Silurian, Niagaran. United States

**Crinobrachiatus brachiatus* (Hall, 1852). Brett, 1984, p. 111, Fig. 15, nos. D-E. Webster, 1988, p. 177.
Silurian, Niagaran, Rochester Shale. United States, New York

Crinobrachiatus sp. Seilacher and MacClintock, 2005, p. 231, Fig. 8, no. C.
Early Devonian. United States, New York

Crinoid
Tesakov *etal.*, 1980, p. 144, Pls. 9, fig. 6; 21, fig. 6. Webster, 1986, p. 395.
Silurian, Wenlockian, Mukshin Horizon. Russia, Northwestern Siberian Platform

Speyer and Brett, 1991, p. 521, Fig. 9, no. A. (diagramatic)

Crinoid attachment bases Jell *et al.,* 1988, p. 397, Figs. 27, nos. P-Q. Webster, 1993, p. 140.
Devonian, late Eifelian and Givetian, Papilio Formation. Australia, Queensland

Crinoid attachment discs Steele and Sinclair, 1971, p. 3, Pl. 16, figs. 5-9. Webster, 1977, p. 227.
Middle Ordovician. Canada, Ontario

Crinoid calyx and column Kuang *et al.*, 1989, Pl. 48, fig. 1. Webster, 1993, p. 140.
Early Devonian, middle part of Zayilin Member, Yujian Formation. China, Guangxi

Crinoid column
Hall, 1843a, p. 157, Pl. 31, figs. 3-3b; Fig. 61, nos. 3-3b.
Devonian, Emsian, Onondaga Limestone. United States, New York
Wolf, 1983, p. 89, Pl. 24, fig. 4.
Pennsylvanian, Missourian, Hertha Formation. United States, Iowa
Wolf, 1983, p. 116, Pl. 24, fig. 6 (left).
Pennsylvanian, Virgilian, Wakarusa Formation. United States, Nebraska
Brett, 1985a, p. 628, Fig. 3, no. 1. Webster, 1988, p. 177.
Silurian, Wenlockian, Gasport Limestone. United States, New York
Donovan, 1989b, p. 310, Fig. 3 (diagramatic). Webster, 1993, p. 140.
No age given.
Donovan, 1989f, p. 258, Fig. 11.5, nos. A-B. Webster, 1993, p. 141.
Ordovician, Katian (Ashgillian). Rhiwlas Limestone. United Kingdom
Powers and Ausich, 1990, p. 251, Fig. 3.1. Webster, 1993, p. 141.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana
Powers and Ausich, 1990, p. 251, Fig. 3.6. Webster, 1993, p. 141.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana
Powers and Ausich, 1990, p. 255, Fig. 5.4. Webster, 1993, p. 141.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana
Powers and Ausich, 1990, p. 255, Fig. 5.5. Webster, 1993, p. 141.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana
Powers and Ausich, 1990, p. 255, Fig. 5.6. Webster, 1993, p. 141.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana
Ausich, 1996b, p. 248, Fig. 17-6, no. 9.
Devonian, Columbus Limestone. United States, Ohio
Galle and Prokop, 2000, p. 442, Pl. 1, figs. 1-8.
Devonian, Pragian, Dvorce-Prokop Limestone. Czech Republic

Crinoid column exhibiting extreme deformation caused by pit-forming epizoans Brett, 1978b, p. 218, Fig. 1. Webster, 1986, p. 396.
Silurian, Wenlockian, Rochester Shale. United States, New York

Crinoid column segment Ausich, 1996b, p. 247, Fig. 17-5, no. 14.
Silurian, Brassfield Formation. United States, Ohio

Crinoid columnal
Mamay and Yochelson, 1962, p. 219, Pl. 34, fig. 12.
Pennsylvanian, Desmoinesian, Cherokee Group, Cabanis Formation, Mineral Coal Bed. United States, Kansas
Branson, 1964b, p. 243, Fig. 1. Webster, 1977, p. 227.
Pennsylvanian, Lenapah Formation. United States, Oklahoma
Grant, 1963, Pl. 19, figs. 12-13. Webster, 1977, p. 227.
Permian, Leonardian, Bone Spring Formation. United States, Texas
Meyers, 1977, p. 88, Fig. 8, no. d (thin-section). Webster, 1986, p. 396.
Mississippian, Viséan (Osagean), Lake Valley Formation. United States, New Mexico
Donovan, 1989e, p. 258, Fig. 11.5. Donovan, 1991b, p. 257, Fig. 11.5, nos. A-B.
Ordovician, Katian (Ashgillian). Rhiwlas Limestone. United Kingdom, Wales
Ausich, 1996b, p. 249, Fig. 17-7, nos. 15-16.
Pennsylvanian, Missourian, Conemaugh Group, Cambridge Limestone. United States, Ohio
Savarese, Dodd, and Lane, 1997, p. 145, Fig. 1, no. C.
Mississippian. United States, Indiana
Savarese, Dodd, and Lane, 1997, p. 145, Fig. 1, no. D.
Mississippian, Viséan, Ramp Creek Formation. United States, Indiana
Ausich, 2000, p. 60, Figs. 1-2.
Pennylvanian, late Desmoinesian, Marmaton Group, Nowata Shale. United States, Oklahoma

Crinoid columnals
Talent, 1963, p. 49, Pl. 19, figs. 9-12. Webster, 1973, p. 327.
Devonian, Wentworth Group. Australia, Victoria
Branson, 1964a, p. 166, Fig. 1, nos. a-b. Webster, 1977, p. 227.
Pennsylvanian, Desmoinesian, Wewoka Sandstone. United States, Oklahoma
Branisa, 1965, Pl. 22, fig. 6. Webster, 1977, p. 227.
Early Devonian. Bolivia
Markovskiy, 1966, Pl. 12.
Pennsylvanian. Russia
Markovskiy, 1966, Pls. 15-16.
Late Devonian. Russia
Schewtschenko, 1966, Pl. 7-8. Webster, 1973, p. 327.
Late Silurian-Early Devonian. Tadzhistan, Tien Shan Mountains
Conkin and Conkin, 1976, p. 212, Fig. 14, no. 42. Webster, 1988, p. 178.
Devonian, Beechwood Formation. United States, Kentucky
Conkin and Conkin, 1976, p. 212, Fig. 14, no. 43. Webster, 1988, p. 178.
Mississippian. no locality data
Conkin and Conkin, 1976, p. 212, Fig. 14, no. 44. Webster, 1988, p. 178.
Early Mississippian. no locality data
Conkin and Conkin, 1976, p. 212, Fig. 14, no. 45. Webster, 1988, p. 178.
Early Mississippian. no locality data
Conkin and Conkin, 1976, p. 225, Pl. 10. Webster, 1988, p. 178.
Mississippian, Viséan, New Providence Shale, Button Mold Knob Member. United States, Kentucky

Anderson, 1983, p. 157, Fig. 7.16. Webster, 1988, p. 178.
Mississippian, no locality data
Hemish, 1987, p. 157, Fig. 5. Webster, 1993, p. 141.
Pennsylvanian, Missourian, Checkerboard Limestone. United States, Oklahoma
Finsley, 1989, p. 95, Fig. 23.
Early Pennsylvanian. United States, Texas
Donovan, 1991c, p. 31, figs. 1-11.
Schematic diagrams.
Hotchkiss, Prokop, and Petr, 1999, p. 330, Fig. 2, nos. 22-26.
Devonian, Pragian, Trebotov Limestone. Czech Republic
Kovedynsky and Prokop, 2006, p. 92, figs. 4-7.
Devonian, Lochkovian – Zlichovian?, Steglov Formation. Czech Republic
Greb et al., 2008, p. 127, Fig. F. Meyer and Ausich, 2009, p. 19, Fig. 13, no. D.
Mississippian, Viséan, late Osagean, Fort Payne Formation. United States, Kentucky

Crinoid columnals and plates, representing *Dolatocrinus, Megistocrinus* spp. and two calceocrinid species Kesling *et al.*, 1974, Pls. 21, 29, undesignated figures. Webster, 1986, p. 396.
Middle Devonian, Whiskey Creek Formation, Bryozoan Bed. United States, Michigan

Crinoid columnars
Chapman, 1907, p. 67.
Silurian. Australia, Victoria
Chapman, 1907, p. 67.
Silurian. Australia, Victoria

Crinoid columns
Gilbertson *in* Portlock, 1843, Pl. 15, figs. 2a-2b.
Mississippian. Ireland
Davis, 1992, p. 41, Pl. 1, fig. 15.
Late Ordovician. United States, Cincinnati, Ohio region
Terry, 1992, p. 10, Fig. 13, no. D.
Mississippian, Viséan (Osagean), Fort Payne Formation. United States, Kentucky
Donovan and Pickerill, 1995a, p. 363, Figs. 3-5.
Silurian, Arisaig Group, Moydart Formation, Green Member. Canada, New Brunswick
Klug, et al., 2003, p. 158, Fig. 4, no. B.
Devonian, early Famennian. Morocco

Crinoid facet Donovan, 1989b, p. 308, Fig. 1 (diagramatic). Webster, 1993, p. 141.

Crinoid fragments
Reinhardt, 1988, p. 259, Pls. 32, fig. 5; 34, fig. 6; 35, figs. 4-5 (thin-section views).
Permian, late Lopingian,Changxing Formation. China, Sichuan

Ferretti and Kriz, 1995, p. 249, Fig. 9, no. H (columnal).
Silurian, early - middle Ludlovian. Czech Republic
Gischler, 1996, p. 301, Figs 2, nos. e, f, g; 3, nos. a, c.
Mississippian, late Tournaisian, middle Viséan. Germany, Harz Mountains

Crinoid, gen. and sp. indet. Shikama, 1964, p. 168, Pl. 61, figs. 9-12. (More than 1 species, GDW).
Age and locality uncertain

Crinoid grapple Goldstein, 1983, p. 37, Fig. 4. Webster, 1988, p. 178.
Silurian, Niagaran, Louisville Limestone. United States, Kentucky

Crinoid holdfast
Brett, 1991, p. 321, Fig. 12, no. H.
Silurian, Wenlockian, Waldron Shale. United States, Tennessee
Rozhnov, 2006, p. S448, Fig. 2, no. d.
Middle Ordovician. Baltic region
Stinchcomb, 2008, p. 84, Fig. 05-09.
Middle Silurian. United States, Illinois
Stinchcomb, 2008, p. 125, Fig. 07-050.
Mississippian, Viséan, Bordon Formation New Providence Shale. United States, Kentucky, Button Mold Knob

Crinoid holdfast type 3 Palmer and Palmer, 1977, p. 187, Fig. 5, no. A. Webster, 1986, p. 396.
Ordovician, Sandbian, Champlainian, Galena Group, Dunleith Formation, Rivoli Member. United States, Iowa

Crinoid holdfasts
Kammer, 1985a, p. 99, Fig. 10, nos. A-I. Webster, 1988, p. 178.
Mississippian, Viséan (Osagean). United States, Kentucky
Haude *in* Jahnke and Shi, 1989, p. 178, Pl. 4, fig. 4; Fig. 37, no. A. Webster, 1993, p. 141.
Silurian, Xiangyangsi Formation, Tugua Member. China, Yunnan Province
Klug, et al., 2003, p. 154, Figs. 2-3.
Devonian, early Famennian. Morocco

Crinoid holdfasts, genera and species undetermined Le Menn *in* Chauvel and Le Menn, 1979, p. 577, Pl. 3, figs. 13-17. Webster, 1986, p. 396.
Ordovician, Ashgillian. Spain, Fombuena

Crinoid indet. Murchison, 1839 = *Entrochus asteriscus*

Crinoid joint
Lesley, 1889, p. 161, Fig. 9.
Devonian, Loraine (Hudson River) Formation. United States, New York
Lesley, 1889, p. 161, Figs. 3, 5.

Devonian. United States, Virginia

Crinoid ossicle Loope and Watkins, 1989, p. 375, Fig. 5, no. H. Webster, 1993, p. 141.
Pennsylvanian, Missourian, Kansas City Group. United States, Nebraska

Crinoid ossicles
Gupta and Kaul, 1975, p. 87, Fig. 1, no. 9.
Note, most Gupta localities considered fraudulent, Webster, 1991a.)
Mississippian. India
Engelder and Engelder, 1977, p. 457, Fig. 1. Webster, 1986, p. 396.
Late Devonian. United States, New York
Binns and Gayer, 1980, p. 53, Fig. 1. Webster, 1986, p. 396.
Late Ordovician, Silurian. Norway

Crinoid packstone Stemmerik, 1989, p. 691, Fig. 5. Webster, 1993, p. 141.
Pennsylvanian, early Moscovian, Kap Jungersen Formation, Ingolf Fjord Member. Greenland

Crinoid plate
Gupta, 1971, p. 75, Pl. 58, fig. 2. Webster, 1977, p. 228.
Permian. India, Madhya Pradesh
Note, most Gupta localities considered fraudulent, Webster, 1991a.
Smith, 1990, p. 436, Fig. 11, no. A.
Mississippian. no locality given

Crinoid plates
Easton, 1962, p. 37, Pl. 4, figs. 6-7. Webster, 1973, p. 327.
Mississippian or Pennsylvanian, Cameron Creek Formation. United States, Montana
Easton, 1962, p. 37, Pl. 4, fig. 8. Webster, 1973, p. 327.
Mississippian or Pennsylvanian, Alaska Bench Formation. United States, Montana
Easton, 1962, p. 37, Fig. 10. Webster, 1973, p. 327.
Mississippian, Chesterian, Heath Formation. United States, Montana
Easton, 1962, p. 37, Fig. 11. Webster, 1973, p. 327.
Mississippian,Chesterian, Otter Formation. United States, Montana

Crinoid pluricolumnal
Donovan, 1983b, p. 20, Fig. 1, no. B. Webster, 1988, p. 178.
Mississippian: no locality data
Eckert, 1988b, p. 281, Fig. 1, nos. A-B. Webster, 1993, p. 141.
Silurian, late Llandovery, Willowvale Shale. United States, New York

Crinoid pleuricolumnals Brett, 1985b, p. 822, Fig. 2. Webster, 1988, p. 178.
Silurian, Gasport Limestone. United States, New York

Crinoid root Brower and Veinus, 1974, p. 102, Pl. 9, figs. 1a-1b. Webster, 1986, p. 396.
Ordovician, Sandbian, Benbolt Formation; Wardell Formation; Lincolnshire Formation; Ottosee Shale or Sevier Shale; Red Knobs Formation; Pierce Shale. United States, Virginia, Tennessee

Crinoid root of the *Eucalyptocrinites* type Lowenstam, 1948, Pl. 5, fig. 3.
Silurian, Niagaran, reef facies. United States, Illinois

Crinoid roots.
Hecker, 1983, p. 76, Pl. 38, fig. 2. Webster, 1993, p. 141.
Middle Devonian, Pskov Layer. Russia, Main Devonian Field
Hecker, 1983, p. 76, Pl. 38, fig. 3. Webster, 1993, p. 141.
Middle Devonian, Chudov Layer. Russia, Main Devonian Field
Hecker, 1983, p. 76, Pl. 59, figs. 1-3. Webster, 1993, p. 141.
Middle Devonian, Chudov Layer. Russia, Main Devonian Field
Hecker, 1983, p. 76, Fig. 36. Webster, 1993, p. 141.
Middle Devonian, Chudov Layer. Russia, Main Devonian Field

Crinoid roots and rootlets Archer and Feldman, 1986, p. 137, Figs. 3-5. Webster, 1993,
p. 142.
Silurian, Niagaran, Waldron Shale. United States, Indiana

Crinoid roots, coiled stems, etc Wright, 1958, p. 327, Pls. 80, figs. 18, 20; 81. Webster, 1973, p. 327.
Mississippian. United Kingdom, Scotland; Ireland

Crinoid segments Mark, 1911, p. 298, Pl. 10, figs. 18-19.
Pennsylvanian, Atokan, Mercer Limestone. United States, Ohio

Crinoid species B Eckert and Brett, 2001, p. 64, Pl. 2, figs. 16-17.
Silurian, middle Llandoverian, Reynales Formation, Hickory Corners Member. United States, New York

Crinoid species C Eckert and Brett, 2001, p. 64, Pl. 9, figs. 10, 20.
Silurian, middle Llandoverian, Wolcott Limestone. United States, New York

Crinoid species D Eckert and Brett, 2001, p. 64, Pl. 9, figs. 1, 6, 11-13.
Silurian, late Llandoverian, Willowvale Shale. United States, New York

Crinoid species E Eckert and Brett, 2001, p. 65, Pl. 9, figs. 21, 24.
Silurian, late Llandoverian, Willowvale Shale. United States, New York

Crinoid species F Eckert and Brett, 2001, p. 65, Pl. 9, figs. 22-23.
Silurian, late Llandoverian, Kirkland Iron Ore and Willowvale Shale. United States, New York

Crinoid species G Eckert and Brett, 2001, p. 65, Pl. 9, figs. 18, 25.
Silurian, late Llandoverian, Willowvale Shale and Williamson Shale. United States, New York

Crinoid stalk columnals. Norton, 1995, p. 72, Fig. 3.
No age or locality given, probably Mississippian: Indiana

Crinoid stalk fragment. Norton, 1995, p. 75, Fig. 8.
No age or locality given, probably Mississippian: Indiana

Crinoid stem Foord, 1890 = *Baryschyr? carnarvonensis*

Crinoid stem
Nicholson and Etheridge, 1880, p. 327, Pl. 22, fig. 1.
Ordovician, Katian, Craighead Limestone. United Kingdom
Nicholson and Etheridge, 1880, p. 327, Pl. 22, fig. 2.
Ordovician, Katian, Craighead Limestone. United Kingdom
Nicholson and Etheridge, 1880, p. 327, Pl. 22, figs. 3-4.
Ordovician, Katian, Craighead Limestone. United Kingdom
Nicholson and Etheridge, 1880, p. 328, Pl. 22, fig. 5.
Ordovician, Katian. United Kingdom
Nicholson and Etheridge, 1880, p. 328, Pl. 22, figs. 6-8.
Ordovician, Katian. United Kingdom
Lesley, 1889, p. 162, Fig. 6.
Devonian, Givetian, Hamilton Formation. United States, New York
Chandra, 1972, p. 362, Fig. 3.
Early Permian, Lower Gondwanas. India
Tesmer, 1964, p. 3, Fig. G. Webster, 1973, p. 327.
Late Devonian, Awkwright Group. United States, New York
Gupta, 1971, p. 41, Pl. 24, fig. 9. Webster, 1977, p. 228.
Note, most Gupta localities considered fraudulent, Webster, 1991a.
Silurian, Naubug Beds. India, Kashmir
Franzén, 1974, p. 291, Figs. 3; 14, no. F. Webster, 1986, p. 396.
Silurian, early Wenlockian, Högklint Beds. Sweden, Isle of Gotland
Nelson, 1975, p. 457, Fig. 13. Webster, 1986, p. 396.
No age given, probably Paleozoic
Welch, 1976, p. 219, Pl. 1, fig. 2. Webster, 1986, p. 396.
Pennsylvanian, late Missourian, Bond Formation, Millersville Limestone Member. United States, Illinois
Welch, 1976, p. 219, Pl. 1, fig. 3. Webster, 1986, p. 397.
Permian, Wolfcampian, Foraker Limestone, Hughes Creek Shale Member. United States, Kansas
Lane *in* Moore and Teichert, 1978, p. T347, Fig. 218, no. 1. Webster, 1986, p. 397.
Late Pennsylvanian, Seminole Formation. United States, Oklahoma
Conway Morris, 1981, p. 496, Pl. 1, fig. A. Webster, 1988, p. 178.
Silurian. Sweden
Conway Morris, 1981, p. 496, Pl. 1, fig. E. Webster, 1988, p. 178.
Permian, Foraker Limestone. United States, Kansas

Conway Morris, 1981, p. 496, Pl. 1, fig. F. Webster, 1988, p. 178.
Carboniferous, Haney Limestone. United States, Indiana
Conway Morris, 1981, p. 496, Pl. 2, fig. C. Webster, 1988, p. 178.
Devonian. Morocco
Conway Morris, 1981, p. 496, Pl. 2, fig. D. Webster, 1988, p. 178.
Silurian, Klinteberg Beds: Sweden
Hoskins, Inners, and Harper, 1983, p. 36, Pls. 2, 6, 13; Unnum. Fig. p. 36, no. a.
Note. authors use same diagramatic figure for all ages.
Ordovician, Silurian, Devonian, Mississippian, Pennsylvanian. United States, Pennsylvania
Kammer, 1985c, p. 22, Fig. K. Webster, 1988, p. 178.
Mississippian, Viséan (Osagean), Borden Formation. United States
Archer and Feldman, 1986, p. 135, Figs. 3, nos. B, F; 4, nos. A-C; 5, nos. 1-2.
Webster, 1993, p. 142.
Silurian, Wenlockian, Waldron Shale. United States, Indiana
Boucot, 1990, p. 29, Fig. 19, nos. 12, 16.
Permian
Linsley, 1994, Pl. 341, fig. 6.
Devonian. United States, New York
Wood, Dickson, and Kirkland, 1996, p. 747, Pl. 3, fig. 1.
Permian, Capitanian. United States, Texas
Shi and McLoughlin, 1997, p. 46, Pl. 5, fig. 5.
Permian, Artinskian, Wandrawandian Siltstone. Australia, New South Wales
Ausich and Simms, *in* Hess et al., 1999 p. 57, Fig. 66.
Mississippian, Viséan, middle Osagean, Borden Formation. United States, Kentucky
Ausich and Simms, *in* Hess et al., 1999 p. 58, Fig. 68.
Mississippian, Chesterian, Indian Springs Shale. United States, Indiana
Morris and Felton, 2003, p. 550, Fig. 2, no. C.
Ordovician, Katian (Cincinnatian), Fairview Formation. United States, Kentucky

Crinoid stem and joints Lesley, 1889, p. 161, Figs. 3-3b.
Devonian, Upper part of Helderberg Formation. United States, New York

Crinoid stem fragment
Strong and Kean, 1972, p. 1576, Fig. 2. Webster, 1977, p. 228.
Middle Ordovician, Cutwell Group. Canada, Newfoundland
Hill, 1985, p. 825, Figs. 3-4. Webster, 1988, p. 178.
Age uncertain, migmatitic gneiss. Canada, British Columbia

Crinoid stem fragments Hashim, 1985, p. 207, Figs. 4-6. Webster, 1988, p. 178.
Permian, Series unceretain, Kenny Hill Formation. Malaysia

Crinoid stem impression Douglas, 1969, p. 224, Fig. 4. Webster, 1977, p. 228.
Mississippian?. United States, Indiana

Crinoid stem no. 1 Fraunfelter, 1974, p. 17, Pl. 2, fig. 15. Webster, 1986, p. 397.

Devonian, Givetian, St. Laurent Limestone, Lingle Limestone. United States, Illinois, Missouri

Crinoid stem no. 2 Fraunfelter, 1974, p. 18, Pl. 2, fig. 16. Webster, 1986, p. 397.
Devonian, Givetian, St. Laurent Limestone, Lingle Limestone. United States, Illinois, Missouri

Crinoid stem no. 3 Fraunfelter, 1974, p. 18, Pl. 2, fig. 17. Webster, 1986, p. 397.
Middle Devonian, St. Laurent Limestone, Lingle Limestone. United States, Illinois, Missouri

Crinoid stem parts
Bennett, 1984, p. 112, Fig. 58. Webster, 1988, p. 179.
Pennsylvanian, no locality data
Dott, 1981, p. 38, Fig. 4. Webster, 1988, p. 179.
Pennsylvanian, late Desmoinesian – early Missourian, Seminole and Holdenville Formations. United States, Oklahoma

Crinoid stem remnants Palivades *et al.*, 1980, p. 290, Fig. 3, nos. D-J. Webster, 1986, p. 397.
Late Ordovician. United States, Virginia

Crinoid stem segment
Genser, 1965, p. 155, Fig. 2. Webster, 1977, p. 229.
Paleozoic, age uncertain. Germany
Malakhova, 1969, Pl. 45, fig. 319. Webster, 1977, p. 229.
Devonian, Eifelian. Russia, Southern Urals
Malakhova, 1969, Pl. 46, fig. 321. Webster, 1977, p. 229.
Devonian, Eifelian. Russia, Southern Urals

Crinoid stem segments Yanishevsky, 1900, p. 98, Pl. 1, figs. 18-21.
Mississippian, Tournaisian, C1: Russia, Ural Mountains

Crinoid stem (type 2) Reed, 1927, p. 112 (description only).
Permo-Carboniferous. China, Yunnan

Crinoid stem (type 3) Reed, 1927, p. 113 (description only).
Permo-Carboniferous. China, Yunnan

Crinoid stem (type 4) Reed, 1927, p. 113 (description only).
Permo-Carboniferous. China, Yunnan

Crinoid stem with a parasitic *Phosphannulus* Lane *in* Moore and Teichert, 1978, p. T347, Fig. 218, no. 4. Webster, 1986, p. 397.
Mississippian, Chesterian, Haney Formation. United States, Indiana

Crinoid stem with local swelling Franzén, 1974, p. 292, Fig. 7, nos. A-B. Webster, 1986, p. 397.

Silurian, Ludlovian, Klinteberg Beds. Sweden, Isle of Gotland

Crinoid stems
Etheridge, 1879, p. 19, Pls. 1-2.
Carboniferous. United Kingdom
Etheridge, 1903, p. 25, Pl. 4, figs. 1-9.
Permian, Sakmarian, lower part of Callytharra Formation. Australia, Western Australia
Reed, 1906, p. 93, Pl. 8, figs. 13-14.
Silurian, ?early Llandoverian, Namhsim Sandstone, Zebingyi Beds. India
Zelizko, 1911a, p. 118, Figs. 1-5. (Three species, GDW)
Early Silurian. Czech Republic, Bohemia
Bucher, Caster, and Jones, 1945, p. 11, Pl. 1, figs. 14a-14b, 15.
Ordovician, Katian (Cincinnatian). United States, Cincinnati area
Lawrence, L. J., 1953, p. 120, figs. 1-2.
Permian. Australia, New South Wales
Newell *et al.*, 1953, p. 165, Pl. 35, fig. 12. Webster, 1973, p. 327.
Permian, Artinskian, Copacabana Group. Peru
Eargle, 1960, Pl. 28, fig. B. Webster, 1977, p. 228.
Pennsylvanian, Desmoinesian, Ricker Station Limestone. United States, Texas
Sahni and Gupta, 1965b, p. 248, Fig. 1. Webster, 1973, p. 327.
Note: Most Gupta localities considered fraudulent, Webster, 1991a.
Silurian: India, Kashmir
Foyn, S., 1967, p. 215, Fig. 5.
Silurian: Norway
Douglas, 1969, p. 224, Fig. 5. Webster, 1977, p. 229.
No age or locality given
Douglas, 1969, Unnum. Figs. top and middle p. 227. Webster, 1977, p. 229.
Mississippian. United States, Indiana
Douglas, 1969, Unnum. Fig. bottom p. 227. Webster, 1977, p. 229.
Glacial Drift. United States, Michigan
Broadhurst and Simpson, 1973, p. 372, Fig. 4, nos. A-C. Webster, 1977, p. 229.
Mississippian. United Kingdom
Franzén, 1974, p. 296, Figs. 13, no. A; 14, nos. A-E, G; 15. Webster, 1986, p. 397.
Silurian, Ludlovian, Klinteberg beds. Sweden, Isle of Gotland
Gupta and Kaul, 1975, p. 87, Fig. 1, no. 10-11.
Note, most of Gupta's localities considered fraudulent, Webster, 1991a.
Mississippian. India
Hoggan, 1975, p. 173, Fig. 6. Webster, 1986, p. 397.
Devonian, Guilmette Formation. United States, Nevada, Utah
Paul, 1976a, p. 36, Fig. 2, nos. s-v. Webster, 1986, p. 397.
Ordovician. Greenland
Welch, 1976, p. 219, Pls. 1, figs. 1, 4-7; 2, figs. 1-5. Webster, 1986, p. 397.
Mississippian, Serpukhovian (middle Chesterian), Haney Limestone. United States, Indiana
Thorne, 1978, p. 19, cover photo. Webster, 1986, p. 397.
Carboniferous-Permian, Chilliwach Group. United States, Washington
Franzén-Bengtson, 1983, p. 291, Figs. 1-6, 7, no. D; 8. Webster, 1988, p. 179.

Silurian, Ludlovian, Slite Beds, Klinteberg Beds. Sweden, United Kingdom. Gotland
Hecker, 1983, p. 75, Pl. 4, fig. 1. Webster, 1993, p. 142.
Middle Devonian, Pskov Layer. Russia, Main Devonian Field
Hecker, 1983, p. 75, Pl. 4, fig. 2. Webster, 1993, p. 142.
Middle Devonian, Chudov Layer. Russia, Main Devonian Field
Hecker, 1983, p. 75, Pl. 6, fig. 1. Webster, 1993, p. 142.
Middle Devonian, Chudov Layer. Russia, Main Devonian Field
Hecker, 1983, p. 75, Pl. 15, fig. 1. Webster, 1993, p. 142.
Middle Devonian, Chudov Layer. Russia, Main Devonian Field
Donovan, 1989e, p. 251, Fig. 11.3, nos. C-E. Webster, 1993, p. 142.
Mississippian. United Kingdom, Scotland
Hedinger, 1989, p. 455, Fig. 4. Webster, 1993, p. 142.
Devonian, Frasnian. Canada, Alberta
Boucot, 1990, p. 32, Fig. 22, nos. 1-7.
Mississippian. United States
Donovan, 1991b, p. 249, Fig. 11.4, no. C.
Mississippian. United Kingdom, Scotland
Bartels, Briggs, and Brassel, 1998, p. 117, Fig. 93.
Devonian, early Emsian, Hunsrückschiefer. Germany
Manning and Sevastopulo, 1998, p. 184.
Mississippian, Viséan, Arundian, Bundoran Shale Formation. Ireland
Miller et al., 2008, p. 256, Fig. 12.7.
Mississippian, Viséan (Osagean), Weaubleau Breccia. United States, Missouri
Lewis and Donovan, 2008, p. 9, Fig.5, no. A.
Mississippian Limestone. United Kingdom
Stinchfield, 2008, p. 155, Fig. 08-074.
Mississippian, Viséan. (Merimecian), St. Louis Limestone. United States, Missouri, St. Louis County

Crinoid stems and columnals Sprinkle and Wahlman, 1994, p. 336, Figs. 6.12-6.15.
Early Ordovician. United States, West Texas

Crinoid stems and preserved root system Prokop, 1967, p. 367, Pls. 1-2. Webster, 1973, p. 327.
Devonian, Pragian, upper part of Koneprusy Beds. Czech Republic, Bohemia

Crinoid stems (Group A) Girty, 1915a, p. 30, Pl. 3, figs. 1-6.
Pennsylvanian, Desmoinesian, Wewoka Formation. United States, Oklahoma

Crinoid stems (Group B) Girty, 1915a, p. 31, Pl. 3, figs. 7-8.
Pennsylvanian, Desmoinesian, Wewoka Formation. United States, Oklahoma

Crinoid stems malformed by attachment of cornulitids Franzén, 1974, p. 296, Fig. 12. Webster, 1986, p. 397.
Silurian, Ludlovian, Klinteberg Beds. Sweden, Isle of Gotland

Crinoid stems with barrel-shaped inflations Franzén, 1974, p. 293, Fig. 10. Webster, 1986, p. 397.
Silurian. Sweden

Crinoid stems with cirri Babcock, 1977, p. 371, Fig. 3, no. b.
Permian, Lamar Limestone. United States, West Texas

Crinoid (unidentified plates in thin-section) Meyers, 1977, p. 87, Figs. 8, nos. b-c; 9, nos. a-d; 10, no. a; 13, no. a; 14, nos. c-d. Webster, 1986, p. 397.
Mississippian, Viséan (Osagean), Lake Valley Formation. United States, New Mexico

Crinoidal debris Greb et al., 2008, p. 15, Fig. E; p. 27, Fig. E. Meyer and Ausich, 2009, p. 19, Fig. 13, no. E.
Mississippian, Viséan (late Osagean), Fort Payne Formation. United States, Kentucky

Crinoids Ausich, Schmidt, and Carney, 2007, Figs. 18-19.
Silurian, Ludlovian, Wabash Formation. United States, Indiana

Columnal Wolf, 1983, p. 116, Pl. 24, fig. 6 (right).
Pennsylvanian, Virgilian, Wakarusa Formation. United States, Nebraska

Crinoidal columnals Toomey and Cys, 1977, p. 137, Fig. 2, no. E.
Permian, Guadalupian, Capitan Formation. United States, New Mexico

Crinoidal columns Billings, E., 1895b, p. 347, Fig. 1, nos. k-o.
Ordovician, Calciferous Sandrock. Canada, Mingan Island

Crinoidal debris
Kano, 1989, p. 298, Fig. 5.
Silurian, Ludlovian, Sundre Beds. Sweden, Gotland
Terry, 1992, p. 10, Fig. 13, no. E.
Mississippian, Viséan (Osagean), Fort Payne Formation. United States, Kentucky

Crinoidal joint Hall, 1843a, p. 77, Pl. 9, fig. 3; Fig. 19, no. 3.
Silurian, Niagaran, Clinton Group. United States, New York

Crinoidal limestone Hadding, 1933, p. 49, Fig. 25.
Silurian. Sweden

Crinoidal marl Hadding, 1941, p. 56, Figs. 52-54.
Silurian. Sweden

Crinoidal remains
Reed, 1927, p. 10 (description only).
Devonian. China, Yunnan

Reed, 1927, p. 64 (description only).
Mississippian. China, Yunnan
Newell *et al.*, 1953, Pl. 23, fig. 47. Webster, 1973, p. 327.
Permian, Guadalupian, Lamar Limestone. United States, Texas
Newell *et al.,* 1972, p. 227, Pl. 23, fig. 47.
Permian, ?Guadalupian, Permian reef complex. United States, Texas

Crinoidal stem Reed, 1928, p. 370, Pl. 36, figs. 15-15a.
Permian, Artinskian, *Productus* horizon. India, Umaria

Crinoidal stem sections Lowenstam, 1948, Pl. 6, fig. 1.
Silurian, Niagaran, Blue Island Zone. United States, Illinois

Crinoïde
Delgado, 1908, p. 51.
Early Silurian. Portugal
Delgado, 1908, p. 98.
Late Silurian. Portugal
Delgado, 1908, p. 126.
Late Silurian. Portugal
Delgado, 1908, p. 140.
Early Silurian. Portugal
Patte, 1926, p. 39, Pl. 1, fig. 8.
Devonian. Indochina, east of Tonkin

Crinoidea Zakowa, 1966, p. 117, Pl. 16, figs. 11a-11d.
Carboniferous, *Goniatites crenistria* Biozone. Poland

Crinoidea, columnals of stems Zakowa, 1958, p. 126, Pl. 10, fig. 4a. Webster, 1977, p. 227.
Mississippian. Poland

Crinoidea elliptici resembling *Platyplateium* Fleming, Murray, and Whitaker, 1975, p. 417, Figs. 3-4. Webster, 1986, p. 396.
Late Paleozoic, probably Mississippian, Wandilla Formation. Australia, Queensland

Crinoidea (fragment of stem segment)
Malakhova, 1969, Pl. 15, figs. 126. Webster, 1977, p. 227.
Late Devonian. Russia, Southern Urals
Malakhova, 1969, Pl. 25, fig. 204. Webster, 1977, p. 227.
Devonian. Russia, Southern Urals
Malakhova, 1969, Pl. 26, fig. 205. Webster, 1977, p. 227.
Devonian. Russia, Southern Urals

Crinoidea, fragments of stems or arms Zakowa, 1958, p. 126, Pl. 10, figs. 4b, 4d. Webster, 1977, p. 228.
Mississippian. Poland

Crinoidea Gen et sp. indet. Prokop, 1970b, p. 42, Pl. 4. Webster, 1977, p. 228.
Early Devonian, Reefton Group. New Zealand, South Island

Crinoidea imprint of columnal of stem Zakowa, 1958, p., 126, Pl. 10, fig. 4c. Webster, 1977, p. 228.
Mississippian. Poland

Crinoidea indet. Branisa, 1965, Pl. 54, figs. 1-9, 11-18, 24-27 (misnumbered as 21-24, repeating numbers 21-23 on the plate). Webster, 1977, p. 228.
Early Permian, Copacabana Group. Bolivia

Crinoidea indet. 3 Branisa, 1965, Pls. 22, fig. 4; 23, figs. 4-6. Webster, 1977, p. 228.
Early Devonian. Bolivia

Crinoidea indet. 4 Branisa, 1965, Pls. 22, fig. 5; 23, figs. 7-9. Webster, 1977, p. 228.
Early Devonian. Bolivia

Crinoidea indet. 5 Branisa, 1965, Pl. 23, fig. 21. Webster, 1977, p. 228.
Early Devonian. Bolivia

Crinoidea (stem segment).
Malakhova, 1969, Pl. 22, fig. 166. Webster, 1977, p. 228.
Late Devonian - Carboniferous, early Tournaisian. Russia, Southern Urals
Malakhova, 1969, Pl. 27, fig. 207. Webster, 1977, p. 228.
Devonian. Russia, Southern Urals

Crinoidean Breton, 1847, p. 241 (description).
Permian. Australia, Tasmania

Crinoidearum genus, sp. 1 Altar, 1931, p. 30, Figs. 14, 21.
Devonian?, Veik'scher Schieferbrüche. Germany

Crinoidearum genus, sp. 2 Altar, 1931, p. 30, Figs. 15-18.
Devonian?, Bahr'scher Schieferbrüche. Germany

Crinoidearum genus, sp. 3 Altar, 1931, p. 30, Figs. 19-20.
Devonian?, Veik'scher Schieferbrüche. Germany

Crinoidearum genus, sp. 4 Altar, 1931, p. 30, Figs. 22.
Devonian?, Veik'scher Schieferbrüche. Germany

Crinoidearum ordo, fam., gen. et spp. ind. Prokop and Petr, 1990, p. 16.
Elément d'une Tige Waagen et Jahn, 1899, Pl. 78, fig. 1, nos. 15-16. Prokop and Petr, 1990, p. 60. Webster, 1993, p. 142.
Silurian, late Wenlockian, Liten Formation. Czech Republic
Encrinites anonymus Barrande *in* Waagen and Jahn, 1899, p. 134, Pl. 70, figs. 1-6, 7-16 (cited as *Entrochus anonymus* p. 148). Bassler and Moodey, 1943, p. 446. Prokop and Petr, 1990, p. 13. Webster, 1993, p. 142.

Silurian, Ludlovian, Kopanina Formation. Czech Republic

Encrinites betula Barrande *in* Waagen and Jahn, 1899, p. 155, Pl. 77, case 21. Bassler and Moodey, 1943, p. 446. Prokop and Petr, 1990, p. 15. Webster, 1993, p. 142.

Silurian, late Wenlockian, Liten Formation. Czech Republic

Encrinites binarius Barrande *in* Waagen and Jahn, 1899, p. 144, Pl. 79, case 16. Bassler and Moodey, 1943, p. 446. Prokop and Petr, 1990, p. 15. Webster, 1993, p. 142.

Ordovician, Sandbian (Caradocian), Zahorany Formation. Czech Republic

Encrinites fenestratus Barrande *in* Waagen and Jahn, 1899, p. 143, Pl. 79, cases. 2-4, 6-9. Bassler and Moodey, 1943, p. 447. Prokop and Petr, 1990, p. 27. Webster, 1993, p. 142.

Ordovician, Katian (Ashgillian), Kraluv Dvur Formation. Czech Republic

Encrinites gemmans Barrande *in* Waagen and Jahn, 1899, p. 157, Pl. 79, case 19, figs. 1-8. Bassler and Moodey, 1943, p. 447. Prokop and Petr, 1990, p. 27. Webster, 1993, p. 142.

Devonian, Pragian, Dvorce-Prokop Formation. Czech Republic

Encrinites inflatus Barrande *in* Waagen and Jahn, 1899, p. 158, Pl. 79, case 22. Bassler and Moodey, 1943, p. 447. Prokop and Petr, 1990, p. 29. Webster, 1993, p. 142.

Devonian, early Emsian, Zlichov Formation. Czech Republic

Entrochus laetus Barrande *in* Waagen and Jahn, 1899, p. 142, Pl. 79, case 1 (Given as *Encrinites* on plate explanation). Bassler and Moodey, 1943, p. 452.

Silurian: Czech Republic, Bohemia

Encrinites laso Barrande *in* Waagen and Jahn, 1899, p. 193, Pl. 77, cases 14-19. Bassler and Moodey, 1943, p. 447. Prokop and Petr, 1990, p. 31 (parts of ? arms and ? stems). Webster, 1993, p. 142.

Silurian, Wenlockian, Liten Formation. Czech Republic, Bohemia

Encrinites medullosus Waagen and Jahn, 1899, Pl. 79, fig. 20, no. 4 (only) (cited as *Entrochus medullosus* p. 148). Bassler and Moodey, 1943, p. 447. Prokop and Petr, 1990, p. 33. Webster, 1993, p. 142.

Silurian, Ludlovian, Kopanina Formation. Czech Republic

Encrinites nepos Barrande *in* Waagen and Jahn, 1899, p. 152, Pl. 76, case 1, figs. 1-3. Bassler and Moodey, 1943, p. 448. Prokop and Petr, 1990, p. 35. Webster, 1993, p. 142.

Silurian, Pridolian, Pridoli Formation. Czech Republic

Encrinites nudus Barrande *in* Waagen and Jahn, 1899, p. 156, Pl. 79, case 10, figs. 1-3. Bassler and Moodey, 1943, p. 448. Prokop and Petr, 1990, p. 35. Webster, 1993, p. 143.

Devonian, late Emsian, Daleje Shales. Czech Republic

Encrinites petasus Barrande *in* Waagen and Jahn, 1899, p. 186, Pl. 79, case 5, figs. 1-3. Bassler and Moodey, 1943, p. 448. Prokop and Petr, 1990, p. 38. Webster, 1993, p. 143.

Ordovician, Katian (Ashgillian), Kraluv Dvur Formation. Czech Republic

Encrinites praecursor Barrande *in* Waagen and Jahn, 1899, p. 155, Pl. 77, cases 8-10. Bassler and Moodey, 1943, p. 448.

Encrinites praecursor (Waagen and Jahn, 1899). Prokop and Petr, 1990, p. 38.

Webster, 1993, p. 143.
Ordovician, Sandbian (Caradocian), Zahorany Formation. Czech Republic

Encrinites rotator Barrande *in* Waagen and Jahn, 1899, p. 144, Pl. 79, cases 12-13. Bassler and Moodey, 1943, p. 449. Prokop and Petr, 1990, p. 44. Webster, 1993, p. 143.
Ordovician, Sandbian (Caradocian), Zahorany Formation. Czech Republic

Encrinites scopularum Barrande *in* Waagen and Jahn, 1899, p. 118, Pl. 77, case 20. Bassler and Moodey, 1943, p. 449.
Encrinites scopularum (Waagen and Jahn, 1899). Prokop and Petr, 1990, p. 45. Webster, 1993, p. 143.
Silurian, late Wenlockian, Liten Formation. Czech Republic

Encrinites strigens Barrande *in* Waagen and Jahn, 1899, p. 156, Pl. 79, case 11. Bassler and Moodey, 1943, p. 449. Prokop and Petr, 1990, p. 47. Webster, 1993, p. 143.
Devonian, late Emsian, Daleje Shales. Czech Republic

Encrinites subpartitus Barrande *in* Waagen and Jahn, 1899, p. 145, Pl. 79, case 18. Bassler and Moodey, 1943, p. 449. Prokop and Petr, 1990, p. 48. Webster, 1993, p. 143.
Ordovician, Sandbian (Caradocian), Zahorany Formation. Czech Republic

Encrinites versatilis Barrande *in* Waagen and Jahn, 1899, p. 156, Pl. 79, case 14. Bassler and Moodey, 1943, p. 449.
Encrinites versatilis (Waagen and Jahn, 1899). Prokop and Petr, 1990, p. 50. Webster, 1993, p. 143.
Devonian, Givetian, Kacak Member. Czech Republic

Encrinites sp. Waagen and Jahn, 1899. Prokop and Petr, 1990, p. 23,-4. Webster, 1993, p. 143.
Silurian, late Wenlockian, Liten Formation. Czech Republic

Entrochus nympharum Barrande *in* Waagen and Jahn, 1899, p. 150, Pl. 71, figs. 17-24 (Given as *Encrinites* on plate explanation). Bassler and Moodey, 1943, p. 453.
Encrinites nympharum (Waagen and Jahn, 1899). Prokop and Petr, 1990, p. 35. Webster, 1993, p. 143.
Silurian, Pridoli, Pridoli Formation. Czech Republic

Restes indéterminés Waagen and Jahn, 1899, Pl. 60, fig. 2, nos. 1-3; fig. 5, nos. 1-3; fig. 6, nos. 1-3; 73, fig. 10, nos. 6-9. Prokop and Petr, 1990, p. 52. Webster, 1993, p. 143.
Devonian, late Emsian, Suchomasty Limestone. Czech Republic

Restes indéterminés Waagen and Jahn, 1899, Pls. 60, fig. 3, nos. 1-3; fig. 4, nos. 1-3; 73, fig. 1, nos. 1-3; fig. 2, nos. 1-3; fig. 3, nos. 1-3; fig. 4, nos. 1-3; fig. 5, nos. 1-3; fig. 6, nos. 1-3; fig. 7, nos. 1-2; fig. 8, nos. 1-3; fig. 9, nos. 1-5; fig. 10, nos. 1-4, 10-12, 16-21, 28-31; Pl. 74, figs. 1-8, 11-17; Pl. 75, figs. 1-46. Prokop and Petr, 1990, p. 52-59. Webster, 1993, p. 143.
Devonian, Pragian, Koneprusy Limestone?. Czech Republic

Restes indéterminés Waagen and Jahn, 1899 Pl. 76a, fig. 2, no. 2 (only). Prokop and Petr, 1990, p. 59. Webster, 1993, p. 143.
Devonian?. Czech Republic

Restes indéterminés Waagen and Jahn, 1899 Pl. 76, fig. 2, no. 1 (only). Prokop and Petr, 1990, p. 59. Webster, 1993, p. 143.

Silurian, Ludlovian, ?Kopanina Formation. Czech Republic
Restes indéterminés Waagen and Jahn, 1899 Pl. 72, fig. 20, nos. 1-3; Pl. 76, fig. 2, nos. 6-10 (only). Prokop and Petr, 1990, p. 54. Webster, 1993, p. 143.
Silurian, Pridoli, Pridoli Formation?. Czech Republic
Restes indéterminés Waagen and Jahn, 1899 Pl. 72, fig. 13, nos. 1-3 (only). Prokop and Petr, 1990, p. 53. Webster, 1993, p. 143.
Silurian, Pridoli, Pridoli Formation? or Lochkov Formation?. Czech Republic
Restes indéterminés Waagen and Jahn, 1899 Pl. 78, fig. 3, nos. 10-13 (only). Prokop and Petr, 1990, p. 61. Webster, 1993, p. 143.
Silurian, late Wenlockian, Liten Formation. Czech Republic
Syndetocrinus bohemicus Bouska, 1946, Pl. 2, fig. 11. Prokop and Petr, 1990, p. 17 (basal part of stem with cirri-sockets). Webster, 1993, p. 143.
Silurian, Ludlovian, basal part of Kopanina Formation. Czech Republic
Tiges d'encrines Waagen and Jahn, 1899, Pl. 78, fig. 1, nos. 1-3, 10-12 (only). Prokop and Petr, 1990, p. 59, 60. Webster, 1993, p. 144.
Silurian, Pridoli, Pridoli Formation. Czech Republic

?Crinoidearum ordo, fam., gen. et sp. ind. Prokop and Petr, 1990, p. 13, 14. Webster, 1993, p. 144.
Encrinites artifex Barrande *in* Waagen and Jahn, 1899, p. 183, Pl. 77, cases 1-7 (cited as *Entrochus artifex*, p. 140). Bassler and Moodey, 1943, p. 446. Prokop and Petr, 1990, p. 13, 14. Webster, 1993, p. 144.
Ordovician, Sandbian (Caradocian), Bohdalec Formation. Czech Republic
Entrochus milleporus Barrande *in* Waagen and Jahn, 1899, p. 142, Pl. 77, case 11 (Given as *Encrinites* on plate explanation). Bassler and Moodey, 1943, p. 452.
Encrinites milleporus Waagen and Jahn, 1899. Prokop and Petr, 1990, p. 33. Webster, 1993, p. 144.
Ordovician, Katian (Ashgillian), Kraluv Dvur Formation. Czech Republic

Crinoideen-Reste Stache, 1883, p. 409, Pl. 7, figs. 33-39 (no fig. 36 on Pl. 7, there are two fig. 38)
Mississippian. Western Sahara

Crinoideen-Reste, Armform Stache, 1883, p. 409, Pl. 7, figs. 40-41. (Cirri, GDW)
Mississippian. Western Sahara

Crinoideen-Säule Geinitz, 1867, p. 64, Pl. 4, fig. 24.
Pennsylvanian. United States, Nebraska

Crinoidenrest Franke, 1973, p. 126, Pl. 9, fig. 2.
Carboniferous, Dinantian, Erdbach Limestone. Germany

Crinoidenstiel mit Bewuchs von *Asplasmophyllum* cf. *crinoiphilum* Roemer, 1880. Hauser, 1997, Pl. 75, fig. 8.
Devonian, Givetian, Loogh Formation. Germany

Crinoidenstiel mit Bohrlöchen eines Parasiten Hauser, 1997, Pl. 76, fig. 6.

Devonian, Eifelian, Freilingen Formation, Nollenbach Member. Germany

Crinoidenstiel mit Bohrspuren eines Paerasiten Hauser, 1997, Pl. 73, fig. 4.
Devonian, Eifelian, Freilingen Formation, Nollenbach Member. Germany

Crinoidenstiel mit Verwachsung Hauser, 1997, Pl. 75, fig. 9.
Devonian, Givetian, Loogh Formation, Hustley Member. Germany

Crinoidenstiele Enderle, 1901, p. 93, Pl. 8, figs. 8a-8f.
Carboniferous. Asia Minor, Balia Maaden

Crinoidenstielenglieder Enderle, 1901, p. 94, Pl. 8, figs. 9-11.
Carboniferous. Asia Minor, Balia Maaden

Crinoidenstieles Yanishevsky, 1910, p. 33, Pl. 1, figs. 14, 17.
Mississippian, lower part of Kohlenkalks. Russia

Crinoidenstieles Yanishevsky, 1910, p. 33, Pl. 1, figs. 15-16.
Pennsylvanian. Russia

Crinoidenstielglieder
Schmidt, 1933, p. 14, Pl. 1, fig. 6.
Mississippian, Kellerwaldquarzit. Germany
Kowalski, 1985, p. 398, Fig. 38. Webster, 1988, p. 179.
Middle Devonian, Gerolstein. Germany

Crinoiden-stielglieder sp. 1 Patteisky, 1929, p. 201, Pl. 18, fig. 24.
Mississippian, Wagstädter Schichten. Germany, Czech Republic, Poland

Crinoiden-stielglieder sp. 2 Patteisky, 1929, p. 201, Pl. 18, fig. 25.
Mississippian, Wagstädter Schichten. Germany, Czech Republic, Poland

Crinoiden-stielglieder sp. 3 Patteisky, 1929, p. 202.
Late Devonian, Engelsberger Schichten. Germany

Crinoidenstielreste Schmidt, 1933, p. 39, Pl. 5, figs. 13-14.
Mississippian, Tanner Grauwacke. Germany

Crinoidenwurzel auf Korallenstock Hauser, 1997, Pl. 76, fig. 7.
Devonian, Eifelian, Freilingen Formation. Germany

Crinoidenwurzel auf matrix (Korallenstock) Hauser, 1997, Pl. 76, fig. 3.
Devonian, Givetian, Loogh Formation, ?Rech Member. Germany

Crinoidenwurzel auf matrix (Korallenstock) Hauser, 1997, Pl. 76, fig. 9.
Devonian, horizon uncertain. Germany

Crinoidenwurzel auf matrix (Korallenstück) Hauser, 1997, Pl. 76, fig. 5.

Devonian, horizon uncertain. Germany

Crinoidenwurzel auf Matrix (flächige Koralle) Hauser, 1997, Pl. 76, fig. 4.
Devonian, Eifelian, ?Freilingen Formation. Germany

Crinoiden-Wurzelstock mit Stiel Hauser, 1997, Pl. 76, fig. 8.
Devonian, Eifelian, Freilingen Formation, Nollenbach Member. Germany

Crinoideorum genus? Roemer, C. F., 1885, p. 55, Pl. 3, figs. 11a-11b.
Early Silurian, Backstein Kalks. Germany

Crinoideorum genus? Roemer, C. F., 1885, p. 137, Pl. 11, fig. 5.
Devonian, Dolomitische Gesteine. Germany

Crinoides Hernández-Sampelayo, 1954, p. 25, Pl. 3, fig. 1. Webster, 1973, p. 327.
Carboniferous. Spain

Crinoïdes indéterminés Articles de Tige Thoral, 1935, p. 88, Pl. 8, fig. 6. (Pl. 8, fig. 6 is listed under *Lingulocyctis elongata*, p. 95 and on plate explanation)
Ordovician, Tremadocian. France, Montagne Noire

Crinoidideae Billings, E., 1859a, p. 347, Fig. 1, nos. k-l.
Ordovician, Darriwilian (Chazyean), Calciferus Sandstone Series. Canada, Quebec

Crinoidideae Billings, E., 1859a, p. 347, Fig. 1, nos. m-n.
Ordovician, Darriwilian (Chazyean), Calciferus Sandstone Series. Canada, Quebec

Crinoidideae Billings, E., 1859a, p. 347, Fig. 1, no. o.
Ordovician, Darriwilian (Chazyean), Calciferus Sandstone Series. Canada, Quebec

Crinoids Williams, M. E., 1982, p. 20, Pl. 1.
Mississippian, Tournaisian – Viséan (Kinderhookian-Osagean). United States, Indiana, Iowa

Crinoidstilke Kiaer, 1902, p. 60 (very meager description, GDW).
Silurian. Norway

CRISANTUM de Gregorio, 1930. **C. stevensoni* de Gregorio, 1930.
de Gregorio, 1930, p. 36. Bassler, 1938, p. 75. Bassler and Moodey, 1943, p. 377 (unrecognizable, based on columns). Moore and Laudon, 1943b, p. 104. Webster, 1973, p. 281.
Recognized number of named columnal species: 1 Permian, Wordian species (+1 subspecies)
Permian, Wordian: Sicily

**Crisantum stevensoni* de Gregorio, 1930, p. 36, Pl. 13, figs. 7-10. Bassler, 1938, p. 75. Bassler and Moodey, 1943, p. 377.
Permian, Wordian. Sicily

Crisantum stevensoni submissum de Gregorio, 1930, p. 36, Pl. 13, fig. 11. Bassler and Moodey, 1943, p. 377.
Permian, Wordian: Sicily

CROMYOCRINUS Trautschold, 1867.
Pennsylvanian, Moscovian. Russia

Cromyocrinus sp. Yakovlev, 1956a, p. 118, Fig. 44, nos. 1-3. Yakovlev, 1958, p. 102, Fig. 44, nos. 1-3. Yakovlev, 1964a, p. 105, Fig. 46. Webster, 1973, p. 282.
Pennsylvanian, Moscovian. Russia, Moscow Basin

CROSSOTOCRINUS Dubatolova, 1971. **Pentagonocyclicus cortinatus* Dubatolova, 1968.
Dubatolova, 1971, p. 68. Webster, 1977, p. 193. Jeffords *in* Moore and Teichert, 1978, p. T932. Webster, 1993, p. 144.
Recognized number of named columnal species: 2 Devonian species, 1 Pragian, 1 Early Devonian series uncertain
Devonian, Pragian. Russia

**Crossotocrinus cortinatus* (Dubatolova, 1968). Dubatolova, 1971, p. 68. Webster, 1977, p. 193. Dubatolova, 1990, p. 119, Fig. 23, nos. A-B. Webster, 1993, p. 144.
Pentagonocyclicus cortinatus Dubatolova, 1968, p. 151, Pl. 16, figs. 1-8; Fig. 9; **1971**, p. 68. Webster, 1977, p. 193.
Pentagonocyclicus continatus Dubatolova, 1968. Webster, 1973, p. 306 (sic).
Devonian, Pragian; Tom-Chum Horizon, lower part of Rekov Beds. Russia, Salair, Altai Mountains, West Siberian Platform

Crossotocrinus gradatus (Yeltyschewa *in* Dubatolova, 1964). Dubatolova, 1971, p. 69, Pls. 9, fig. 12; 10, figs. 1-2; Fig. 31. Webster, 1977, p. 193.
Pentagonocyclicus gradatus Yeltyschewa *in* Dubatolova, 1964, p. 79, Pl. 11, figs. 3-4. Dubatolova, 1971, p. 69. Webster, 1973, p. 307. Webster, 1977, p. 193.
Early Devonian. Russia, Salair, Kuznetz Basin, Altai Mountains, Pribalkhash

CROTALOCRINITES Austin and Austin, 1842.
Stukalina, 1975, p. 139. Haude, 1981, p. 188, Fig. 2, right. Webster, 1986, p. 338. Stukalina, 2000, p. 17.
Crotalocrinites (sensu lato) Stukalina, 1986, p. 71. Webster, 1993, p. 144.
Recognized number of named columnal species: 8 species. 6 Silurian, 2 Llandoverian, 3 Wenlockian, 1 Late Silurian uncertain; 1 Silurian/Devonian boundary beds; 1 Silurian/Devonian uncertain
Silurian. Europe; Russia; United States; Australia

Crotalocrinites (sensu lato) Stukalina, 1986 = ***CROTALOCRINITES***

Crotalocrinites? armiger Milicina, 1980, p. 204, Pl. 2, fig. 7. Webster, 1986, p. 338.

Silurian, late Wenlockian, equivalent to Pavdin Horizon. Russia, Ural Mountains

Crotalocrinites baschkiricus Yakovlev, 1949 (part) = *Pentagonocyclicus rimosus*

Crotalocrinites? borealis (Yeltyschewa, 1960). Stukalina, 1982b, p. 148, Pl. 22, figs. 8-10, Figs. 28, nos. v- e; 31, nos. a- v. Stukalina, 1986, p. 71, Pl. 16, figs. 5-12; Fig. 13, no. 2. Stukalina, 1988c, p. 62, Pl. 9, fig. 16; Fig. 25, no. 1. Webster, 1988, p. 179. Stukalina, 2000, p. 24, Pls. 3, figs. 1-5; 15, figs. 7-9; Fig. 4.
Pentagonocyclicus borealis Yeltyschewa, 1955a, p. 46, Pl. 54, fig. 3. Yeltyschewa, 1960, p. 21, Pl. 4, fig. 8. Yeltyschewa and Stukalina, 1963, p. 53, Pl. 1, fig. 18; Fig. 20. Webster, 1973, p. 306. Webster, 1988, p. 179.
Pentagonopentagonalis borealis (Yeltyschewa, 1955). Stukalina, 1982b, p. 148.
Crotalocrinites sp. Yeltyschewa, 1960, p. 7, Pl. 5, figs. 11-13. Webster, 1973, p. 282. Stukalina, 1982b, p. 148. Webster, 1988, p. 179. Webster, 1993, p. 144.
Silurian, Llandoverian, Alpeja and Khaastyr? Horizons. Russia, Siberian Platform, Taymyr
Silurian, Llandoverian. Eastern Kazakhstan

Crotalocrinites karagatschensis Stukalina, 1975. Stukalina, 1991, p. 261, Pl. 51, figs. 1-10.
Early Devonian, Lochkovian, Pribalkhash Horizon. Kazakhstan

Crotalocrinites? karagatschensis Stukalina, 1975, p. 139, Pl. 33, figs. 3-5. Stukalina, 1986, p. 71, Pl. 16, figs. 13-14. Webster, 1986, p. 338. Webster, 1993, p. 144.
Late Silurian, Akkan Horizon; Tokrau Horizon. Kazakhstan

Crotalocrinites? kokbajtalensis Stukalina, 1971, p. 196, Pl. 2, fig. 15. Stukalina, 1975, p. 139, Pl. 33, figs. 6-7. Webster, 1977, p. 193. Stukalina, 1986, p. 71, Pl. 16, figs. 1-4. Webster, 1986, p. 338. Stukalina, 1991, p. 166, Pl. 40, figs. 1-6; Fig. 11, no. p-s. Webster, 1993, p. 144.
Late Silurian - Early Devonian, Boundary Beds of Ainasu Horizon. Central Kazakhstan, Pribalkhash

Crotalocrinites pulcher (Hisinger, 1840). Franzén-Bengtson, 1983, p. 296, Fig. 7, no. C. Webster, 1988, p. 179.
Silurian, Wenlockian, Hogklint or Slite Beds. Sweden, Isle of Gotland

Crotalocrinites radicosus Milicina, 1980, p. 202, Pl. 2, figs. 3-6. Webster, 1986, p. 338.
Silurian, late Wenlockian, Elkin Horizon. Russia, Ural Mountains

Crotalocrinites rugosus (Miller, 1821).
Eichwald, 1860, p. 611, Pl. 31, figs. 60a-60b. Stukalina, 1965b, p. 137, Pl. 1, figs.
10-13; Fig. 3. Webster, 1973, p. 282. Webster, 1977, p. 193.
Crotalocrinus verrucosus Schlotheim, 1926. Wood, A.. 1965, p. 278. Webster, 1977, p. 193.
Silurian. Russia, Kazakhstan
Devonian, Coroux de Kasti Limestone. Estonia, Isle of Oesel

Age uncertain. United Kingdom, Germany

Crotalocrinites? subrugosus Milicina, 1980, p. 203, Pl. 1, figs. 5-6. Webster, 1986, p. 338.
Silurian, late Llandoverian, Semenobb Horizon. Russia, Ural Mountains

Crotalocrinites tuvaensis Yeltyschewa, 1982, p. 168, Pl. 2, figs. 11-12. Webster, 1988, p. 179. Stukalina, 1994, p. 58, Pl. 9, fig. 4. Stukalina, 1995a, p. 78, Pl. 9, fig. 4.
Late Silurian, Elegest Suite; upper part of Dashtyg-Oy Beds. Russia, Tuva, Mongolia

Crotalocrinites sp. Yeltyschewa, 1960 = *Crotalocrinites? borealis*

Crotalocrinites spp.
Kaljo, 1970, Pl. 3, fig. 6. Webster, 1977, p. 194.
Late Silurian. Estonia
Crotalocrinus sp.
Yeltyschewa, 1955a, p. 41, Pl. 54, figs. 4-5. Webster, 1973, p. 282.
Silurian, Llandoverian. Russia, Siberian Platform
Sangil, 1955, p. 251, Fig. 2, no. F. Webster, 1973, p. 282.
No age given
Crotalocrinus sp. indet. Schmidt, 1952, Pl. 8, figs. 5a-5b. Webster, 1973, p. 282.
Devonian. Germany

Crotalocrinites sp. indet. Jell, 1999a, p. 68, Fig. 54, nos. A-C.
Devonian, late Lochkovian, Mt. Ida Formation. Australia, Victoria

Crotalocrinites? sp. Ausich and Copper, 2010, p. 51.
Crotalocrinus? sp. Twenhofel, 1928. Ausich and Copper, 2010, p. 51.
Silurian, Llandoverian, Chicotte Formation. Canada, Quebec, Anticosti Island

Crotalocrinitidae g. et sp. indet. Bouska, 1946a, p. 18, Pl. 4, figs. 5-5a.
Early Devonian, Koneprusy Limestone. Czech Republic, Bohemia

Crotalocrinitidae gen. et sp. indet. Bouska, 1950, p. 21, Pl. 4, figs. 5-5a. Webster, 1973, p. 327.
Devonian, Pragian, Koneprusy Limestone. Czech Republic, Bohemia

Crotalocrinus rugosus
Miller, 1821, p. 89. Goldfuss, 1826, p. 192, Pl. 59, fig. 1. Austin, 1843, p. 189. Angelin, 1878, p. 26, Pls 7, fig. 4; 17, figs. 3a-3b, 8-8a. Wieniukow, 1899, p. 94. Siemiradzki, 1906a, p. 278, Pl. 21, fig. 15.
Paleozoic, *Monograptus* Biozone. Poland
Roemer, C. F., 1885, p. 91, Pl. 5, fig. 13 (pars)
Silurian, Wenlockian, Gotländer Crinoiden-Kalk. Germany
Siemiradzki, 1906a, p. 277, Pl. 21, figs. 15a-15b. Siemiradzki, 1906b, p. 181, Pl. 7, figs. 15a-15b (*non* Miller, 1821).
Carboniferous. Russia, Podolia

Crotalocrinus verrucosus Schlotheim, 1826, Wood, 1965 = *Crotalocrinites rugosus*

Crotalocrinus sp. of authors = *Crotalocrinites* spp.

Crotalocrinus sp. indet. Schmidt, 1952 = *Crotalocrinites* spp.

Crotalocrinus? sp. Twenhofel, 1928 = *Crotalocrinites*? sp.

CTENOCRINUS Bronn, 1840.
MARIACRINUS Hall, 1858.
Recognized number of named columnal species: 4 species. 2 Ordovician, 1 Darriwilian, 1 Katian; 1 Late Silurian; 1 Devonian, series uncertain
Late Silurian - Middle Devonian. Europe; North America

Ctenocrinus notatus Eichwald, 1860, p. 610, Pl. 31, figs. 37, 38a-38c. Bigsby, 1868, p. 19. Bassler and Moodey, 1943, p. 381.
Ordovician, Darriwilian, *Orthoceras* Limestone. Russia

Ctenocrinus sp. (aff. *pinnatus* Goldfuss) Kettner and Prantl, 1942, p. 13, Pl. 1, figs. 4-6. Webster, 1973, p. 282.
Devonian. Czech Republic

?Ctenocrinus portezuelensis Rusconi, 1952, p. 35, Fig. 6. Sieverts-Doreck, 1957b, p. 154. Webster, 1973, p. 282.
Ordovician, Katian, or younger, Salagastanse Horizon. Argentina

Ctenocrinus punctatus (Eichwald, 1856). Eichwald, 1860, p. 609, Pl. 321, figs. 36a-36c. Bigsby, 1868, p. 19. Bassler and Moodey, 1943, p. 381.
Actinocrinus punctatus Eichwald, 1856, p. 118. Eichwald, 1857, p. 64. Eichwald, 1860, p. 31, Figs. 36, nos. a-c. Bassler and Moodey, 1943, p. 381.
Devonian. Russia

Ctenocrinus pusillus Stukalina, 1986, p. 141, Pl. 32, no. 8. Webster, 1993, p. 144.
Late Silurian, upper part of Akkan Horizon. Kazakhstan

Ctenocrinus? spp.
Kutscher, 1971, p. 115, Pl. 1. Webster, 1977, p. 194.
Devonian, Emsian, Hunsrückschiefer. Germany
Fraunfelter, 1974, p. 15, Pl. 2, figs. 6-8. Webster, 1986, p. 338.
Middle Devonian, St. Lurent Limestone. United States, Illinois

CUBOIDECRINUS Stukalina, 1986 = ***CUBOIDICRINUS***

Cuboidecrinus sp. = *Cuboidicrinus* sp

CUBOIDICRINUS Stukalina, 1980. **C. cuboides* Stukalina, 1980.

Stukalina, 1980d, p. 239. Webster, 1986, p. 339. Webster, 1993, p. 144.
CUBOIDOCRINUS Stukalina, 1967a, p. 203.
CUBOIDECRINUS Stukalina, 1986, p. 83.
Recognized number of named columnal species: 1 Ordovician, Katian series
Ordovician, Katian. Kazakhstan

**Cuboidicrinus cuboides* Stukalina, 1980d, p. 239, Pl. 2, fig. 15. Webster, 1986, p. 339.
Cuboidocrinus cuboides Stukalina, 1967a, p. 203 (*nomen nudum*).
Ordovician, Katian, *Holorhynchus giganteus* Beds. Kazakhstan

Cuboidicrinus sp. Stukalina, 1980c, p. 171, Fig. 58, no. 5.
Cuboidecrinus sp. Webster, 1986, p. 339 (sic).
Ordovician, Hirnantian, Ashgillian, Durben Horizon. Kazakhstan

CUBOIDOCRINUS Stukalina, 1967 = ***CUBOIDICRINUS***

Cuboidocrinus cuboides Stukalina, 1967 = *Cuboidicrinus cuboides*

CULMICRINUS Jaekel, 1918.
Mississippian. Europe, United States

Culmicrinus n. sp. Sieverts-Doreck, 1964, p. 4, Pls. 1, figs. 1-9; 3. Webster, 1973, p. 282.
Carboniferous, Namurian?. Spain

Culmicrinus n. sp.? Sieverts-Doreck, 1964, p. 9. Webster, 1973, p. 282.
Carboniferous, Namurian?, Middle Limestone Series. Spain

CUPRESSOCRINITES Goldfuss, 1831.
Schewtschenko, 1989, p. 81. Webster, 1993, p. 144. Ebert, 1994, p. 24.
CUPRESSOCRINUS Termier and Termier, 1974, p. 32.
Recognized number of named columnal species: 23 species. 1 Ordovician or younger; 21 Devonian, 12 Eifelian, 3 Givetian, 1 Eifelian – Givetian, 2 Middle Devonian, 4 Devonian uncertain
Devonian. Cosmopolitan
Ordovician or younger. Argentina

Cupressocrinites abbreviatus Schultze, 1867 = *C. scaber*

Cupressocrinites brevis Schewtschenko, 1989, p. 85, Pl. 1, fig. 15; Fig. 1, nos. v-g, e. Webster, 1993, p. 144.
Devonian, Eifelian. Tadzhistan, southern Tien Shan

Cupressocrinites? chingizensis Stukalina, 1991, p. 166, Pl. 39, fig. 1.
Middle Devonian, Givetian?, Aidarlin? Horizon. Kazakhstan

**Cupressocrinites crassus* Goldfuss, 1831. Schewtschenko, 1989, p. 84, Pl. 1, figs. 1-6. Webster, 1993, p. 145.
Devonian, Eifelian. Tadzhistan, southern Tien Shan

Cupressocrinites crassus Yeltyschewa and Dubatolova, 1961 (*non* Goldfuss, 1826) = *Cupressocrinites scaber*

Cupressocrinites cf. *crassus* Goldfuss, 1831. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, figs. 7-8.
Devonian, late Givetian. Poland

Cupressocrinites cf. *crassus* Goldfuss, 1839. Milicina, 1977a, p. 139, Pl. 58, figs. 8-9. Webster, 1986, p. 339.
Early Devonian, Toshem Horizon. Russia, Eastern Slope Ural Mountains

Cupressocrinites dubius Roemer, F. A., 1843, p. 8, Pl. 12, fig. 10.
Devonian. Germany

Cupressocrinites elegans (Schewtschenko, 1959). Webster, 1973, p. 282. Schewtschenko, 1989, p. 85, Pl. 1, fig. 16. Webster, 1993, p. 145. Rakhmonov, 2008, p. 251, Pl. 109, figs. 11-13.
Cupressocrinus elegans Schewtschenko, 1959, p. 8, Pl. 1, figs. 8-9. Webster, 1973, p. 282.
Devonian, Eifelian. Uzbekistan, Zeravshan Range, Tien Shan

Cupressocrinites? elegans (Schewtschenko, 1959). Stukalina, 1988c, p. 56, Pl. 1, fig. 22. Webster, 1993, p. 145.
Devonian, Eifelian, Obisaphit Beds. Uzbekistan, Tien Shan

Cupressocrinites gracilis Goldfuss, 1831. Yeltyschewa and Dubatolova, 1961, p. 552, Pl. D-86, fig. 4. Dubatolova, 1964, p. 29, Pl. 3, figs. 3-4; Figs. 3-4. Webster, 1973, p. 282. Gluchowski, 1981b, p. 31, Pl. 2, fig. 16. Donovan, 1986c, p. 422, Fig. 1, nos. B-D, H. Webster, 1988, p. 179. Gluchowski, 1993a, p. 46, Fig. 6, nos. C-D. Webster, 1993, p. 145. Ebert, 1994, p. 24, Pl. 1, figs. 1-2; Figs. 13-14, 71-74.
Devonian, Givetian, Eifelian - Eifelian/Givetian boundary, Shandin Layer; Skaly Beds; "Dabrowa Limestone". Russia, Altai Mountains, Kuznetz Basin; Poland
Devonian, Emsian - Eifelian, *Orthocrinus* Formation; *Calceola* Formation. Germany

Cupressocrinites cf. *gracilis* Goldfuss, 1866. Milicina, 1970, p. 97, Pl. 29, figs. 1-4, 7; Fig. 6. Webster, 1977, p. 194.
Devonian. Russia, Ural Mountains

Cupressocrinites? gratus (Dubatolova, 1967). Yeltyschewa and Stukalina, 1977, p. 206. Webster, 1986, p. 339.
Tetragonotetragonalis gratus Dubatolvoa, 1967, p. 37, Pl. 6, figs. 11-15; Fig. 4. Dubatolova, 1971, p. 25. Webster, 1973, p. 322. Yeltyschewa and Stukalina, 1977, p. 206. Webster, 1977, p. 223. Webster, 1986, p. 339.

Tessarocrinus gratus (Dubatolova, 1967). Dubatolova, 1971, p. 25. Dubatolova, 1973b, p. 98, Pl. 24, fig. 3; Fig. 3. Yeltsychewa and Stukalina, 1977, p. 206. Webster, 1977, p. 222. Webster, 1986, p. 339.
Devonian, Eifelian. Russia, Middle East SSR, Nova Zemlya, Tas-Hayahtah Mountains, Salair, Altai Mountains

Cupressocrinites? indefinitus (Dubatolova, 1967). Stukalina, 1988c, p. 56, Pl. 1, figs. 20-21. Webster, 1993, p. 145.
Tetragonocyclicus indefinitus Dubatolova, 1967. Webster, 1993, p. 145.
Note. This species was made the type species of *Tetraxonocrinus* Dubatolova, 1971; see *Tetraxonocrinus indefinitus.* GDW, 2003.
Devonian, Eifelian, Obisaphit Beds. Uzbekistan, Tien Shan

Cupressocrinites? kakvensis Milicina, 1977b, p. 128, Pl. 1, fig. 9; Fig. 5. Webster, 1986, p. 339.
Devonian, Eifelian. Russia, Eastern Slope Ural Mountains

Cupressocrinites longibrachiatus Polyarnaya, 1973. Donovan, 1986c, p. 422, Fig. 1, no. I. Webster, 1993, p. 145.
Devonian, Givetian. Russia, Southern Urals

Cupressocrinites? longibrachiatus Polyarnaya, 1973. Milicina, 1977b, p. 127, Pl. 2, figs. 2-3; Fig. 4. Webster, 1986, p. 339.
Devonian, Eifelian, *Conchidiella* Biozone. Russia, Eastern Slope Ural Mountains

Cupressocrinites minor Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961, p. 553, Pl. D-86, fig. 5. Webster, 1973, p. 282.
Devonian, Eifelian, Shandin Layer. Russia, Altai Mountains

Cupressocrinites ovatus (Schewtschenko, 1959). Webster, 1973, p. 282. Milicina, 1977a, p. 139, Pl. 57, fig. 10. Webster, 1986, p. 339. Schewtschenko, 1989, p. 84, Pl. 1, figs. 7-8; Fig. 1, nos. a-b. Webster, 1993, p. 145.
Cupressocrinus ovatus Schewtschenko, 1959, p. 9, Pl. 1, figs. 5-7. Webster, 1973, p. 282.
Early - Middle Devonian, series uncertain, Karpin Horizon. Russia, Eastern Slope Ural Mountains,
Early - Middle Devonian, series uncertain, Karpin Horizon. Kazhistan, southern Tien Shan, Zeravshan Mountains

Cupressocrinites? ovatus (Schewtschenko, 1959). Yeltyschewa and Stukalina, 1977, p. 205, Pl. 1, fig. 7. Webster, 1986, p. 339. Stukalina, 1988c, p. 56, Pl. 1, fig. 19. Webster, 1993, p. 145.
Middle Devonian, Eifelian, Obisaphit Beds. Russia, Nova Zemlya
Middle Devonian, Eifelian. Uzbekistan, Tien Shan

Cupressocrinites pentaporus Eichwald, 1840 = *Dianthiocoeloma pentaporus* = *Babnicrinus pentaporus*

Cupressocrinites planus (Schewtschenko, 1959). Webster, 1973, p. 282. Milicina, 1970, p. 98, Pl. 29, figs. 11-17; Fig. 7. Webster, 1977, p. 194. Schewtschenko, 1989, p. 86, Pl. 1, fig. 11. Webster, 1993, p. 145.
Cupressocrinus planus Schewtschenko, 1959, p. 7, Pl. 1, figs. 1-4. Webster, 1973, p. 282.
Devonian, Eifelian. Russia, Ural Mountains
Devonian, Eifelian. Tadzhistan, Southern Tien Shan, Zeravshan Mountains

Cupressocrinites rossicus gr. Cyclotetradigonopae (Antropov, 1954). Webster, 1973, p. 282.
Cupressocrinus rossicus gr. Cyclotetradigonopae Antropov, 1954, p. 15, Pl. 1, figs. 1-3, 6. Webster, 1973, p. 282.
Devonian. Russia

Cupressocrinites rossicus gr. Ellipsisodigonopae (Antropov, 1954). Webster, 1973, p. 282.
Cupressocrinus rossicus gr. Ellipsisodigonopae Antropov, 1954, p. 15, Pl. 1, figs. 4-5. Webster, 1973, p. 283.
Devonian. Russia

Cupressocrinites cf. *rossicus* (Antropov, 1954). Webster, 1977, p. 194.
Cupressocrinus cf. *rossicus* Antropov, 1954. Malakhova, 1969, Pl. 45, fig. 320. Webster, 1977, p. 194.
Devonian, Eifelian. Russia, Southern Ural Mountains

Cupressocrinites? salagastianus (Rusconi, 1952). Webster, 1973, p. 283.
?Cupressocrinus salagastianus Rusconi, 1952, p. 37, Figs. 7-8. Sieverts-Doreck, 1957b, p. 154.
Ordovician or younger (Sieverts-Doreck, 1957b), Salagastanse Horizon. Argentina

Cupressocrinites sampelayoi (Almeda and Revilla, 1950). Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 4.
Devonian, late Givetian. Poland

Cupressocrinites scaber Schultze, 1867. Dubatolova, 1964, p. 28, Pls. 2, fig. 9; 3, figs. 1-2. Dubatolova, 1973b, p. 96, Pl. 24, figs. 1-2; Fig. 1. Webster, 1973, p. 283. Milicina, 1977b, p. 128, Pl. 3, figs. 1-4. Webster, 1977, p. 194. Webster, 1986, p. 340.
Cupressocrinites crassus Yeltyschewa and Dubatolova, 1961 (*non* Goldfuss, 1826), p. 552, Pl. D-87, fig. 1. Dubatolova, 1964, p. 28. Webster, 1973, p. 283.
Cupressocrinites abbreviatus Schultze, 1867, p. 131, Pl. 2, fig. 2. Milicina, 1977b, p. 128. Webster, 1986, p. 340.
Devonian, Eifelian, Shandin Layer. Russia, Eastern Slope Ural Mountains, Northeastern Salair, Altai Mountains, Kuznetz Basin

Cupressocrinites? scaber Schultze, 1867. Yeltyschewa and Stukalina, 1977, p. 204, Pl. 1, figs. 4-6. Webster, 1986, p. 340. Rakhmonov, 2008, p. 250, Pl. 109, fig. 10.

Devonian, Eifelian. Russia, Nova Zemlya, Central Taymyr
Devonian, Emsian, Khodzhakurgan Formation, Obisafit Beds. Uzbekistan, Zeravshan Range

Cupressocrinites teres Roemer, F. A., 1843, p. 8, Pl. 3, fig. 10. d'Orbigny, 1850, p. 102. Bassler and Moodey, 1943, p. 386.
Cupressocrinus teres (Roemer, 1943). Bronn, 1848, p. 363.
Devonian, series uncertain, Rammelsberg Beds. Germany, Harz Mountains

Cupressocrinites tesseratus Goldfuss, 1831. Quenstedt, 1852, p. 623, Pl. 55, figs. 8-12. Quenstedt, 1861, Unnum. Fig. . Quenstedt, 1867, p. 747, Pl. 69, figs. 8-12. Quenstedt, 1885, p. 962, Pl. 78, figs. 9-10; Fig. 366 (holdfast and distal part of column).
Devonian, Eifelian. Germany

Cupressocrinites aff. *trimerus* Quenstedt, 1849. Schewtschenko, 1989, p. 87, Pl. 1, figs. 13-14. Webster, 1993, p. 145.
Devonian, Eifelian. Tadzhistan, southern Tien Shan

Cupressocrinites tripartitus Schewtschenko, 1968, p. 284, Pl. 66, fig. 8; Fig. 36. Milicina, 1970, p. 97, Pl. 29, figs. 5-6; Figs. 8-10 (fig. 8 uncertain on plate explanation p. 190). Webster, 1973, p. 283. Webster, 1977, p. 194. Schewtschenko, 1989, p. 86, Pl. 1, fig. 12; Fig. 1, nos. zh, z. Webster, 1993, p. 145.
Devonian, Eifelian. Russia, Southern Urals
Devonian, Eifelian. Tadzhistan, Southern Tien Shan

Cupressocrinites yunnanensis Mu and Wu, 1974, p. 247, Pl. 118, figs. 15-18. Webster, 1986, p. 340.
Middle Devonian, Huaning Group, Po'hsi Formation. China, Yunnan Province

Cupressocrinites sp. A Gluchowski, 1993a, p. 46, Fig. 7, no. G.
Devonian, Eifelian-Givetian boundary, Skaly Beds; Givetian, Laskowa Gora Beds; early Frasnian, lower part of Wietrznia Beds; late Frasnian, Detrital Beds. Poland

Cupressocrinites sp. B Gluchowski, 1993a, p. 46, Fig. 6, nos. A-B.
Devonian, Eifelian-Givetian boundary, Skaly Beds. Poland
Devonian, Givetian,Laskowa Gora Beds, Szydlowek Beds. Poland

Cupressocrinites sp. 1 Ebert, 1994, p. 26, Pl. 1, fig. 5; Figs. 16, 71, 74.
Devonian, Emsian, *Orthocrinus* Formation. Germany

Cupressocrinites sp. 2 Ebert, 1994, p. 26, Pl. 1, figs. 3, 7; Figs. 15, 17, 71, 74.
Devonian, Eifelian, Middle part of Stöppel Formation; Upper part of *Speciosus* Formation to *Calceola* Formation. Germany

Cupressocrinites sp. 3 Ebert, 1994, p. 26, Pl. 1, fig. 6; Fig. 18, 71, 74.

Devonian, late Emsian - early Eifelian, *Orthocrinus* Formation; *Calceola* Formation. Germany

Cupressocrinites spp.
Lee, 1872, p. 387, Fig. 3, nos. a-b.
Devonian. United Kingdom
Stukalina, 1978d, p. 74, Unnum. Fig. p. 72. Webster, 1986, p. 340.
Devonian, Eifelian. Russia
Stukalina, 1982d, p. 142, Unnum. Fig. p. 141. Webster, 1988, p. 179.
Devonian, Eifelian. Russia
Turek, 1988, p. 374, Figs. 4-5.
Middle Devonian, Eifelian. Germany
Ebert, 1994, p. 82, Fig. 72.
Devonian, Eifelian, Bigge Formation. Germany
Gluchowski, Casier, and Olempska, 2006, p. 699, Fig. 3, no. E.
Devonian, early middle Frasnian, middle part of Wietrznia Beds. Poland

Cupressocrinitid or gasterocomid sp. indet. Donovan, 1986c, p. 423, Fig. 1, no. A. Webster, 1993, p. 145.
Mississippiian, Tournaisian. United Kingdom

Cupressocrinitidae indet. Bohaty and Herbig, 2010, p. 381**,** Fig. 12, nos. e-l.
Devonian, middle Givetian, upper part of Büchel Formation, shallow water reef flat. Germany, Rhenish Massif

CUPRESSOCRINUS Termier and Termier, 1974 = ***CUPRESSOCRINITES***

Cupressocrinus canaliculatus (Goldfuss, 1831) = *Myelodactylus canaliculatus*

Cupressocrinus elegans Schewtschenko, 1959 = *Cupressocrinites elegans*

Cupressocrinus ovatus Schewtschenko, 1959 = *Cupressocrinites ovatus*

Cupressocrinus pentaporus Eichwald, 1860 = *Cupressocrinites pentaporus* = *Dianthiocoeloma pentaporus* = *Babanicrinus pentaporus*

Cupressocrinus planus Schewtschenko, 1959 = *Cupressocrinites planus*

Cupressocrinus rossicus gr. Cyclotetradigonopae Antropov, 1954 = *Cupressocrinites rossicus* gr. Cyclotetradigonopae

Cupressocrinus rossicus gr. Ellipsisodigonopae Antropov, 1954 = *Cupressocrinites rossicus* gr. Ellipsisodigonopae

Cupressocrinus cf. *rossicus* Antropov, 1954. Malakhova, 1969 = *Cupressocrinites* cf. *rossicus*

?Cupressocrinus salagastianus Rusconi, 1952 = *?Cupressocrinus salagastianus*

Cupressocrinus sp. ind. Siemiradzki, 1906a, p. 278, Pl. 21, figs. 18, 24. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 18.
Paleozoic, *Monograptus* Biozone. Poland

Cupressocrinus sp.
Neumayr, 1889, p. 430, Fig. 120, left.
Devonian: Germany
Sangil, 1955, p. 251, Fig. 2, no. B. Webster, 1973, p. 283.
Diagramatic
Schewtschenko, 1959, p. 9, Pl. 1, figs. 10-11. Webster, 1973, p. 283.
Devonian, Eifelian. Tadzhistan, Zeravshan Range
Termier and Termier, 1974, p. 32, Pl. 6, fig. 4. Webster, 1986, p. 340.
Middle Devonian. Morocco

CUPULOCRINUS d'Orbigny, 1849.
Recognized number of named columnal species: 2 Ordovician, Katian species
Ordovician, Katian. United Kingdom, Scotland

Cupulocrinus drummuckensis Kolata, 1975. Donovan, 1986d, p. 38, Fig. 13, no. J. Webster, 1993, p. 146.
Ordovician, Katian (Ashgillian), Ladyburn Starfish Bed. United Kingdom, Scotland

Cupulocrinus heterobrachialis Ramsbottom, 1961. Donovan, 1986d, p. 39, Fig. 13, nons. F-H, ?K, ?L. Webster, 1993, p. 146.
Ordovician, Katian (Ashgillian), Ladyburn Starfish Bed. United Kingdom, Scotland

Cupulocrinus spp.
Titus, 1979, p. 112, Figs. 7, no. 12; 8, no. 3. Webster, 1986, p. 340.
Ordovician, Sandbian (early Trenton). United States, New York
Titus, 1989, p. 89, Fig. 5, no. 11. Webster, 1993, p. 146.
Ordovician, Steuben Limestone. United States, New York

Curved pluricolumnal Wright, D. K., 1983, p. 598, Pl. 65, fig. 7. Webster, 1988, p. 179.
Late Ordovician, Glanrafon Beds. United Kingdom

Curved pluricolumnal Lewis, Donovan, and Sawford, 2003, p. 315, Fig. 3, no. b.
Mississippian, Holkerian, Clifton Down Limestone. United Kingdom

CYATHOCRINITES Miller, 1821.
Recognized number of named columnal species: 18 species, various Paleozoic ages, Ordovician - Permian
Silurian - Permian. Cosmopolitan
Note. Most columnal species listed under *Cyathocrinites* and *Cyathocrinus* probably belong to other genera. They are left in these genera until revised.

(Cyathocrinites) berkaloffi (Valette, 1934). Branson, 1948, p. 188.

Cyathocrinus berkaloffi Valette, 1934, p. 98, Fig. 12, nos. a-e. Bassler and Moodey, 1943, p. 397. Branson, 1948, p. 188.
Permian, Wordian. Tunisia

Cyathocrinites catenatus (Trenkner, 1868). Bassler and Moodey, 1943, p. 389.
Cyathocrinus catenatus Trenkner, 1868, p. 206, Pl. 5, fig. 20. Bassler and Moodey, 1943, p. 389.
Early Devonian, Coblenzian, *Spirifer* Sandstone. Germany

Cyathocrinites decaphyllus Roemer, F. A., 1843, p. 8, Pl. 3, fig. 11.
Devonian. Germany

Cyathocrinites distans (Phillips, 1841). Bassler and Moodey, 1943, p. 390.
Cyathocrinus distans Phillips, 1841, p. 135, Pl. 58, fig. 49. Bronn, 1848, p. 366. Bassler and Moodey, 1943, p. 390.
Devonian. United Kingdom

Cyathocrinites goliathus (Waagen, 1885). Webster, 1973, p. 283.
Cyathocrinus goliathus Waagen, 1887. Valette, 1934, p. 95, Unnum. Pl., figs. 11-11a.
"Cyathocrinus" goliathus Waagen, 1885. Termier and Termier, 1958, p. 53, Pl. 2, figs. d-n.
Permian, Wordian. Tunisia

Cyathocrinites macrostylus Phillips, 1846-1848, p. 384. Bassler and Moodey, 1943, p. 392.
Silurian, Wordian. United Kingdom

Cyathocrinites? macrostylus Phillips, 1846-1848, p. 384 (description only). Bassler and Moodey, 1943, p. 394.
Ordovician, Sandbian (Caradocian). United Kingdom

Cyathocrinites obliquiseptatus (Trenkner, 1868). Bassler and Moodey, 1943, p. 394.
Cyathocrinus obliquiseptatus Trenkner, 1868, p. 205, Pl. 6, fig. 16. Bassler and Moodey, 1943, p. 394.
Early Devonian, Coblenzian, *Spirifer* Sandstone. Germany

Cyathocrinites pentagonus Goldfuss, 1831, p. 192, Pl. 59, figs. 2a-2c. Bassler and Moodey, 1943, p. 394.
Cyathocrinus pentagonus (Goldfuss, 1831). Bronn, 1848, p. 366.
Devonian. Germany

Cyathocrinites (??) *pentagonus* Goldfuss, 1831. Roemer, C. F., 1885, p. 91, Pl. 5, fig. 13 (pars).
Silurian, Wenlockian, Gotländer Crinoiden-Kalk. Germany

(Cyathocrinites) permiensis (Valette, 1934). Branson, 1948, p. 189.

Cyathocrinus? permiensis Valette, 1934, p. 91, Unnum. Pl., figs. 1a-1f. Bassler and Moodey, 1943, p. 399.
Cyathocrinus permiensis Valette, 1934, p. 91, Fig. 1, nos. a-f. Branson, 1948, p. 189.
Permian, Wordian: Tunisia

Cyathocrinites pinnatus Goldfuss, 1831, p. 190, Pl. 58, figs. 7a-7z. Bronn, 1837, p. 62, Pl. 4, figs. 7a-7f. Eichwald, 1840b, p. 173. Quenstedt, 1852, p. 622, Pl. 54, fig. 32. Quenstedt, 1885, p. 961, Fig. 365. Bassler and Moodey, 1943, p. 394. Termier and Termier, 1950, p. 93, Pl. 213, figs. 22-29. Webster, 1973, p. 283.
Cyathocrinus pinnatus (Goldfuss, 1831). Phillips, 1841, p. 31, Pl. 16, figs. 4-5. Bronn, 1848, p. 366. d'Orbigny, 1850, p. 104. Dujardin and Hupé, 1862, p. 131. Roemer, F. A., 1866b, p. 222. Bigsby, 1868, p. 19. Bassler and Moodey, 1943, p. 394.
Cyathocrinus? pinnatus (Goldfuss, 1831). Austin and Austin, 1845, p. 62, Pl. 7, figs. 6a-6b. Bassler and Moodey, 1943, p. 394.
?Actinocrinites moniliformis Miller, 1821 (*non* Phillips, 1839). Bronn, 1848, p. 366.
Actinocrinus moniliformis Miller, 1821. Bronn, 1848, p. 14.
Note. More than one genus in the above listings, GDW, 2003.
Silurian. Estonia; United Kingdom
Early Devonian. Morocco
Devonian, Eifelian. Germany

Cyathocrinites? pinnatus Goldfuss, 1831. Gilbertson *in* Portlock, 1843, p. 349. Quenstedt, 1861, p. 326, Unnum.Fig. Roemer, F. A., 1866b, p. 229.
Mississippian. Ireland

Cyathocrinites? pinnatus Goldfuss, 1831. Roemer, F. A., 1866b, p. 229.
Late Devonian, Iberger Kalk. Germany

Cyathocrinites radiatus (Trenkner, 1868) (non Eichwald, 1856). Bassler and Moodey, 1943, p. 395.
Cyathocrinus radiatus Trenkner, 1868, p. 205, Pl. 5, fig. 10. Bassler and Moodey, 1943, p. 395.
Early Devonian, Coblenzian, *Spirifer* Sandstone. Germany

Cyathocrinites rugosus Miller, 1821.
Goldfuss, 1831, p. 192, Pl. 59, figs. 1a-1p.
Devonian, Eifelian. Germany
Quenstedt, 1852, p. 617, Pl. 54, figs. 21-22. Quenstedt, 1867, p. 735, Pl. 68, figs. 21-22. Quenstedt, 1885, p. 942, Pl. 75, figs. 2-3.
Silurian, Wenlockian. Sweden, Isle of Gotland
Quenstedt, 1861, p. 326, 3 Unnum. Figs. (Could be three different species, GDW).
Silurian, Wenlockian. Sweden, Isle of Gotland

Cyathocrinites tricarinitus Roemer, F. A., 1843, p. 8, Pl. 12, fig. 2. Roemer, F. A., 1866b, p. 229.
Late Devonian, Ibergber Kalk. Germany

Cyathocrinites virgalensis (Waagen, 1885). Webster, 1973, p. 283.
"Cyathocrinus" virgalensis Waagen, 1885. Termier and Termier, 1958, p. 55, Pl. 3, figs. 1-f. Webster, 1973, p. 283.
Permian, Wordian. Tunisia

CYATHOCRINUS
Recognized number of named columnal species: 17 species, various Paleozoic ages, Silurian - Permian

Cyathocrinus annulatus Couch, 1855, p. 241. Collins, 1896, p. 81, Pl. 2, figs. 3-4. Bassler and Moodey, 1943, p. 397.
Paleozoic. United Kingdom

Cyathocrinus berkaloffi Valette, 1924 = *Cyathocrinites berkaloffi*

Cyathocrinus brachydactylus Roemer, F. A., 1866a, p. 205, Pl. 35, figs. 10a-10b (not Pl. 33, fig. 4 as given p. 205). Roemer, F. A., 1866b, p. 220. Bassler and Moodey, 1943, p. 476. (part of holdfast, GDW)
Devonian, late Coblenzian, *Spirifer* Sandstone. Germany

Cyathocrinus? carinatus Collins, 1896, p. 76, Pl. D, figs. 6-7. Bassler and Moodey, 1943, p. 397.
Devonian?. United Kingdom

Cyathocrinus catenatus Trenkner, 1868 = *Cyathocrinites catenatus*

Cyathocrinus distans Phillips, 1847 = *Cyathocrinites distans*

Cyathocrinus ellipticus Phillips, 1841, p. 29, Pl. 16, fig. 49. Bronn, 1848, p. 366. d'Orbigny, 1850, p. 104. Bassler and Moodey, 1943, p. 398.
Late Devonian. United Kingdom

Cyathocrinus foveolatus Eichwald, 1860, p. 595, Pl. 31, figs. 54a-54b.
Middle Carboniferous. Russia, Moscow Basin

Cyathocrinus goliathus Waagen, 1887 = *Cyathocrinites goliathus*

Cyathocrinus goliathus Termier and Termier, 1958 = *Cyathocrinites goliatus*

Cyathocrinus indicus Waagen, 1887. Valette, 1934, p. 95, Unnum. Pl., figs. 8-9.
Permian, Wordian. Tunisia

Cyathocrinus kattaensis Waagen, 1887. Valette, 1934, p. 95, Unnum. Pl., figs. 10-10a; p. 97, Unnum. Pl., fig. 19.
Permian, Wordian. Tunisia

Cyathocrinus? leptos Collins, 1896, p. 78, Pl. D, figs. 9a-9b. Bassler and Moodey, 1943, p. 399.
Devonian. United Kingdom

Cyathocrinus lineatus Eichwald, 1856 = *Grammocrinus lineatus*

Cyathocrinus? megastylus Phillips, 1841, p. 32, Pl. 16, fig. 47. Bronn, 1848, p. 366. d'Orbigny, 1850, p. 104. Bassler and Moodey, 1943, p. 399.
Devonian. United Kingdom

Cyathocrinus nodulosus? Phillips, 1841. Bronn, 1848, p. 366. d'Orbigny, 1850, p. 103.
Devonian. United Kingdom

Cyathocrinus? nodulosus Phillips, 1841, p. 32, Pl. 16, fig. 46. Bassler and Moodey, 1943, p. 399.
Devonian. United Kingdom

Cyathocrinus obliquiseptatus Trenkner, 1868 = *Cyathocrinites obliquiseptatus*

Cyathocrinus pentagonus (Goldfuss, 1831) = *Cyathocrinites pentagonus*

Cyathocrinus permiensis Valette, 1934 = *Cyathocrinites permiensis*

Cyathocrinus? permiensis Valette, 1934 = *Cyathocrinites permiensis*

Cyathocrinus pinnatus Goldfuss, 1831.
Note. The following listings are not the same species and probably belong to more than one genus. GDW, 2003.
Roemer, F. A., 1843, p. 7, Pl. 3, figs. 9a-9b. Roemer, F. A., 1866b, p. 220.
Devonian, Coblenzian, Kahleberg Sandstone. Germany
Eichwald, 1860, p. 596.
Devonian, series uncertain, Coraux Limestone: Estonia
Quenstedt, 1867, p. 746, Pl. 68, figs. 32a-32b.
Devonian, Eifelian. Germany

Cyathocrinus pinnatus (Goldfuss, 1850) = *Cyathocrinites pinnatus*

Cyathocrinus? pinnatus (Goldfuss, 1831) = *Cyathocrinites pinnatus*

Cyathocrinus (probably) *pinnatus* Goldfuss, 1831. Blandowski, 1855, p. 222, Figs. 309-314.
Silurian. Australia, New South Wales

Cyathocrinus? conf. *quinquangularis* Miller, 1821. Toula, 1875, p. 574, Pl. 5, fig. 8.
Carboniferous. Norway, Barents Island

Cyathocrinus radiatus Trenkner, 1868 = *Cyathocrinites radiatus*

Cyathocrinus cf. *ramosus* Schlotheim, 1816-1817. Romanov, 1898, p. 10.
Permian, Kungurian. Russia, Kama River

Cyathocrinus cfr. *ramosus* Schlotheim, 1816-1817. Arthaber, 1900, p. 285.
Carboniferous. Russia, Armenia; or eastern part of Turkey

Cyathocrinus rugosus Goldfuss, 1842, p. 192, Pl. 59, fig. 4. Bassler and Moodey, 1943, p. 399.
Devonian. Germany

Cyathocrinus (Crotalocrinus?) stellatus Romanovsky, 1890, p. 81, Pl. 14, figs. 6, 12.
Silurian?. Russia, Turkestan

Cyathocrinus virgalensis Waagen, 1887. Valette, 1934, p. 95, Unnum. Pl., figs. 4-7.
Permian, Wordian. Tunisia

Cyathocrinus cfr. *virgalensis* Waagen, 1887. Arthaber, 1900, p. 285.
Carboniferous. Russia, Armenia; or eastern part of Turkey

"Cyathocrinus" virgalensis Waagen, 1885 = *Cyathocrinites virgalensis*

Cyathocrinus species undetermined Baily, 1875, Pl. 6, figs. 5a-5b.
Ordovician, Darriwilian (Llandeilian). United Kingdom

Cyathocrinus cf. Angelin, 1878. Patte, 1929, p. 31, Pl. 3, fig. 2.
Silurian?. Indochina

Cyathocrinus sp. Krotova, 1885, p. 294. Stukenberg, 1899, p. 270, Pl. 5, figs. 20a-20b.
Actinocrinus sp. Krotova, 1885, p. 296. Stukenberg, 1899, p. 270.
Carboniferous. Russia

Cyathocrinus sp. Siemiradzki, 1906a, p. 277, Pl. 21, fig. 30.
Silurian, *Monograptus* Zone. Russia, Podolia

CYCLOCAUDEX Moore and Jeffords, 1968. **C. typicus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 65. Webster, 1973, p. 283. Le Menn *in* Le Menn and others, 1976, p. 52. Simon and Geizer, 1976, p. 100. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 340. Webster, 1988, p. 179. Scheffler and Fernandes, 2007, p. 89.
Recognized number of named columnal species: 11 species. 1 Devonian, Emsian; 5 Mississippian, 4 late tournaisian, 1Tournaisian – Serpukhovian, 1 Viséan; 5 Pennsylvanian, 1 Atokan – Desmoinesian, 3 Virgilian
Devonian, Emsian. Brazil
Mississippian, Tournaisian. Kazakhstan; United Kingdom
Mississippian, Viséan, Pennsylvanian, Atokan – Virgilian. United States
Mississippian, Tournaisian – Serpukhovian. Poland
Pennsylvanian, Atokan - Virgilian, Middle Permian. Mexico

Cyclocaudex aptus Moore and Jeffords, 1968, p. 66, Pl. 17, fig. 9. Webster, 1973, p. 283. Gluchowski, 1981b, p. 42, Pl. 5, fig. 2. Webster, 1988, p. 179.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky
Mississippian, , Tournaisian – Serpukhovian (Namurian A). Poland

Cyclocaudex congregalis Moore and Jeffords, 1968, p. 65, Pl. 17, fig. 10. Webster, 1973, p. 283.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

Cyclocaudex costatus Moore and Jeffords, 1968, p. 66, Pl. 17, fig. 8. Webster, 1973, p. 283.
Pennsylvanian, Virgilian, South Bend Shale. United States, Texas

Cyclocaudex cf. *C. costatus* Moore and Jeffords, 1968. Buitrón, Patiño, and Moreno, 1987, p. 131, Fig. 3.
Late? Pennsylvanian, Del Monte Formation. Mexico

Cyclocaudex cf. *C. costatus* Moore and Jeffords, 1968. Buitron-Sanchez, et al., 2007, p. 347, Fig. 3, no. e.
Middle Permian, Monos Formation. Mexico, Sonora

Cyclocaudex eodevonicus Le Menn, 1976 = **Paracyclocaudex eodevonicus*

Cyclocaudex infundibularis Sisova, 1991, p. 158, Pl. 1, figs. 9-10.
Mississippian, late Tournaisian. Cental and southern Kazakhstan

Cyclocaudex insaturatus Moore and Jeffords, 1968, p. 66, Pl. 17, fig. 11. Webster, 1973, p. 283. Gluchowski, 1977, p. 309, Fig. 9. Webster, 1986, p. 340. Buitrón, Patiño, and Moreno, 1987, p. 131, Fig. 4. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. a.
Pennsylvanian, Atokan - Desmoinesian, Cabaniss Formation; Del Monte Formation; La Joya Formation. United States, Kansas; Mexico

Cyclocaudex jucundus Moore and Jeffords, 1968, p. 66, Pl. 17, figs. 6-7. Webster, 1973, p. 283. Simon and Geizer, 1976, p. 101, Fig. 9, nos. 1, 4. Webster, 1986, p. 340. Buitrón, Patiño, and Moreno, 1987, p. 132, Fig. 5. Velasco de Leon and Sanchez, 1992, p. 75, Pl. 2, figs. 1-4.
Pennsylvanian, Virgilian, Chaffin Limestone; Belknap Limestone; Ames Limestone; Del Monte Formation; Patlanoaya Formation. United States, Texas, Ohio; Mexico

Cyclocaudex cf. *C. jucundus* Moore and Jeffords, 1968. Buitrón-Sanchez, et al., 2007, p. 347, Fig. 3, nos. c, d.
Middle Permian, Monos Formation. Mexico, Sonora

Cyclocaudex medius Gluchowski, 1986, p. 200, Pl. 2, fig. 3. Gluchowski and Racki, 2005, p. 167, Fig. 4, no. G.

Mississippian, late Tournaisian. Poland
Mississippian, Tournaisian, Pilton beds. United Kingdom, North Devon

Cyclocaudex paranaensis Scheffler and Fernandes, 2007, p. 89, Fig. 6, nos. a-d.
Devonian, Emsian, Jaguariaiva, Member, Ponta Grossa Formation. Brazil, Parana Basin

Cyclocaudex plenus Moore and Jeffords, 1968, p. 66, Pls. 17, fig. 12; 18, figs. 1-5. Moore *et al.*, 1968a, p. 19, Pls. 2, figs. 1-4; 3, fig. 9. Jeffords and Miller, 1968, p. 11, Pl. 1, figs. 1-13; Figs. 1A, 2A, 3, 4A-4B, 5A-5B. Webster, 1973, p. 283. Simon and Geizer, 1976, p. 100, Figs. 7, nos. 1-16; 8, nos. 9, 16-17; 9, no. 6. Ubaghs *in* Moore and Teichert, 1978, p. T80, Fig. 58, no. 3. Webster, 1986, p. 341.
Pennsylvanian, Virgilian, Chaffin Limestone; Black Ranch Limestone; Belknap Limestone; Gunsight Limestone; Wayland Shale; Ames Limestone; Wayland Shale. United States, Ohio, Texas

Cyclocaudex plenus Moore and Jeffords, 1968. Gluchowski, 1986, p. 199, Pls. 2, figs. 5-8; 3, fig. 9. (Not *C. plenus*, GDW)
Mississippian, late Tournaisian. Poland

Cyclocaudex stellifer Gluchowski, 1986, p. 200, Pl. 3, fig. 4.
Mississippian, late Tournaisian. Poland

**Cyclocaudex typicus* Moore and Jeffords, 1968, p. 65, Pl. 17, figs. 1-5. Webster, 1973, p. 284. Simon and Geizer, 1976, p. 100, Figs. 6, nos. 1-7; 8, nos. 1-5. Webster, 1986, p. 341. Martínez, Martínez, and Montero, 1987, p. 406, Pl. 3, fig. 1.
Pennsylvanian, Virgilian, Belknap Limestone; Ames Limestone; Patlanoaya Formation. United States, Ohio; Mexico

Cyclocaudex spp.
Termier, Termier, and Vachard, 1977, p. 96. Webster, 1986, p. 341.
Permian, Merbah el Oussif Series. Southern Tunisia
Martínez, Martínez, and Montero, 1987, p.412, Pl. 1, figs. 15-16.
Early Mississippian, Patlanoaya Formation. Mexico
Webster and Houck, 1998, p. 1069, Figs. 5.15-5.16.
Pennsylvanian, Desmoinesian, Minturn Formation. United States, Colorado

Cyclocaudex? sp. Gluchowski, 1986, p. 201, Pl. 3, figs. 5-6.
Mississippian, late Tournaisian. Poland

CYCLOCAUDICULUS Moore and Jeffords, 1968. **C. regularis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 83. Webster, 1973, p. 284. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 341. Webster, 1988, p. 180.
Recognized number of named columnal species: 6 species. 2 Devonian, Famennian
– Mississippian, late Tournaisian; 3 Mississippian, 1 late Tournaisian, 1
– Tournaisian – Viséan, 1 Viséan; 1 Pennsylvanian, virgilian

Mississippian, late Tournaisian - Viséan. Pennsylvanian, Westphalian. Poland
Mississippian, Tournaisian. United Kingdom
Mississippian, late Viséan. Czech Republic
Pennsylvanian, Virgilian. United States

Cyclocaudiculus cavus Gluchowski, 1986, p. 205, Pl. 1, fig. 3.
Mississippian, late Tournaisian - Viséan. Pennsylvanian, Westphalian. Poland

Cyclocaudiculus edwardi sp. n. Prokop and Pek, 1998, p. 202, Figs. 3-5.
Mississippian, late Viséan, Moravice Formation. Czech Republic, Moravia

Cyclocaudiculus gracilis Gluchowski, l980a, p. 47, Pls. 1, fig. 2; 2, fig. 3. Gluchowski, 1981b, p. 48, Pl. 5, fig. 3. Gluchowski, 1982, p. 78, Pl. 27, figs. 1, 3-4. Webster, 1986, p. 341. Webster, 1988, p. 180.
Mississippian, Tournaisian-Viséan, Pennsylvanian, Westphalian. Poland

Cyclocaudiculus longus Gluchowski, 1986, p. 204, Pl. 1, figs. 1-2. Gluchowski, 2002, p. 323, Fig. 3, nos. A-E.
Devonian, Famennian, *Pa. crepida* to *Pa. marginifera* Biozones. Poland
Mississippian, late Tournaisian. Poland

**Cyclocaudiculus regularis* Moore and Jeffords, 1968, p. 83, Pl. 27, fig. 12. Webster, 1973, p. 284.
Pennsylvanian, Virgilian, Chaffin Limestone. United States, Texas

Cyclocaudiculus varius Gluchowski, 1986, p. 205, Pls. 2, figs. 1-2; 3, figs. 7-8. Gluchowski and Racki, 2005, p. 167, Fig. 5, nos. C-E.
Mississippian, Tournaisian, Pilton Beds. United Kingdom, North Devon
Mississippian, late Tournaisian. Poland, United Kingdom

CYCLOCHARAX Moore and Jeffords, 1968. **C. fasciatus* Moore and Jeffords, 1968. Moore and Jeffords, 1968, p. 76. Le Menn *in* Chauvel and Le Menn, 1973, p. 44. Webster, 1977, p. 194. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 341. Webster, 1988, p. 180.
Recognized number of named columnal species: 5 species. 1 Ordovician, Katian; 2 Silurian Niagaran; 1 Mississippian, late Tournaisian; 1 Pennsylvanian, Moscovian
Ordovician, Katian. Spain, Sardinia
Silurian Niagaran. Poland, United States, Indiana
Mississippian, late Tournaisian. Poland
Pennsylvanian, Moscovian. Russia; Poland; Spain

Cyclocharax alienus Dubatolova *in* Dubatolov, 1976, p. 89, Pl. 25, fig. 1; Fig. 10. Webster, 1986, p. 341.
Pennsylvanian Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Northeast Pribalkhash

**Cyclocharax fasciatus* Moore and Jeffords, 1968, p. 76, Pl. 23, figs. 7-8. Webster, 1973, p. 284. Gluchowski, 1981b, p. 45, Pl. 1, fig. 13. Webster, 1988, p. 180. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 293, Pl. 108, fig. 22.
Silurian, Niagaran, Waldron Shale. United States, Indiana
Silurian, Podlasian, Rzepin Formation. Poland

Cyclocharax grandis Gluchowski, 1986, p. 201, Pl. 1, fig. 7.
Mississippian, late Tournaisian. Poland

Cyclocharax modestus Moore and Jeffords, 1968, p. 76, Pl. 23, fig. 1. Webster, 1973, p. 284.
Silurian, Niagaran, Waldron Shale. United States, Indiana

Cyclocharax paucicrenellatus Le Menn *in* Chauvel and Le Menn, 1973, p. 44, Pl. 2, fig. 8. Le Menn *in* Chauvel, Melendez, and Le Menn, 1975, p. 360, Pl. 3, fig. 7. Webster, 1977, p. 194. Le Menn *in* Chauvel and Le Menn, 1979, p. 576, Pl. 3, figs. 7-8. Webster, 1986, p. 341. Botquelen, Le Menn, and Loi, 2006, p. 20, Fig. 3, nos. 7, 9-11.
Ordovician, Katian (Ashgillian). France, Spain
Ordovician, Katian (Ashgillian), Tuviois Formation. Sardinia

Cyclocharax (col.) sp. Donovan and Wright, 1995, p. 235, Fig. 3, no. C.
Ordovician, Katian (Ashgillian), beds above Keisley Limestone. United Kingdom

CYCLOCION Moore and Jeffords, 1968. **C. distinctus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 78. Webster, 1973, p. 284. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1988, p. 180. Chernova and Stukalina, 1989, p. 125. Webster, 1993, p. 146.
Recognized number of named columnal species: 1 Mississippian, Viséan species; 1 Devonian, Famennian subspecies
Devonian, Famennian. Kazakhstan
Mississippian, Viséan. Kazakhstan

**Cyclocion distinctus* Moore and Jeffords, 1968, p. 78, Pls. 24, figs. 15-16; 25, figs. 1-7. Webster, 1973, p. 284. Chernova and Stukalina, 1989, p. 126, Pl. 2, figs. 8-9. Webster, 1993, p. 146.
Mississippian, Viséan. Kazakhstan

Cyclocion aff. *distinctus* Moore and Jeffords, 1968. Gluchowski, 1981b, p. 46, Pl. 5, fig. 6. Webster, 1988, p. 180.
Mississippian, Viséan. Poland

Cyclocion distinctus primus Sisova, 1988, p. 148, Pl. 1, figs. 4a-4b. Webster, 1993, p. 146.
Devonian, Famennian, Sultsiferovyi Horizon, Aidagarlin Layer. Kazakhstan

Cyclocion sp. Gluchowski, 2002, p. 323, Fig. 3, nos. O-Q.
Devonian, Famennian, *Pa. crepida* to *S. praesulcata* Biozones. Poland

CYCLOCRISTA Moore and Jeffords, 1968. **C. lineolata* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 79. Simon and Geizer, 1976, p. 103. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 341. Webster, 1988, p. 180.
Recognized number of named columnal species: 10 species. 5 Mississippian, 3 Tournaisian, 1 Viséan; 1 Mississippian, Tournaisian – Pennsylvanian, Westphalian A; 1 Mississippian, Viséan – Serpukhovian, Pennsylvanian, Moscovian, Virgilian; 1 Pennsylvanian, Moscovian; 2 Permian, 1 Wolfcampian, 1 uncertain
Mississippian, late Viséan. Poland
Late Pennsylvanian - Early Permian. United States, Russia
Permian. Tunisia

Cyclocrista asymmetrica Gluchowski, 1986, p. 202, Pl. 1, fig. 4.
Mississippian, late Tournaisian. Poland

Cyclocrista cheneyi Moore and Jeffords, 1968, p. 80, Pl. 26, figs. 7-8. Webster, 1973, p. 284. Gluchowski, 1977, p. 309, Fig. 11. Webster, 1986, p. 341.
Permian, Wolfcampian. United States, Texas

Cyclocrista goliathus (Waagen, 1883). Termier, Termier, and Vachard, 1977, p. 95, Pl. 18, figs. 5-6. Webster, 1986, p. 342.
Permian, Bateun Beni Zid Series (Lower Dolomites and Limestones of Chabet n Guer). Southern Tunisia

Cyclocrista hispella Gluchowski, 1980a, p. 47, Pls. 1, fig. 1; 2, fig. 1. Gluchowski, 1981b,
p. 47, Pl. 4, fig. 16. Webster, 1986, p. 342. Webster, 1988, p. 180.
Mississippian, Viséan. Poland

**Cyclocrista lineolata* Moore and Jeffords, 1968, p. 80, Pl. 25, figs. 13-14. Webster, 1973, p. 284. Gluchowski, 1981b, p. 47, Pl. 4, fig. 15. Webster, 1988, p. 180.
Pennsylvanian, Virgilian, Chaffin Limestone. United States, Texas
Mississippian, Tournaisian – Pennsylvanian, Westphalian A. Poland

Cyclocrista martini Miller *in* Moore and Jeffords, 1968, p. 80, Pl. 26, figs. 1-6. Jeffords and Miller, 1968, p. 13, Pl. 4, figs. 1-9; Figs. 1D-2D, 3, 4E-4F, 5D. Webster, 1973, p. 284. Simon and Geizer, 1976, p. 103, Fig. 10, nos. 11-12 (not nos. 11-13 as given p. 103). Gluchowski, 1981b, p. 47, Pl. 4, fig. 14. Webster, 1986, p. 342. Webster, 1988, p. 180. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. b.
Mississippian, Viséan – Serpukhovian (Namurian A). Poland
Pennsylvanian, Atokan = early late Moscovian, La Joya Formation. Mexico
Pennsylvanian, Virgilian, Ames Limestone. United States, Ohio

Cyclocrista nematocarinata Dubatolova *in* Dubatolova, 1976, p. 94, Pl. 24, figs. 9-13; Fig. 14. Webster, 1986, p. 342.
Pennsylvanian, Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Northeast Pribalkhash

Cyclocrista propinqua Dubatolova and Dubatolova, 1984, p. 162, Pl. 24, figs. 10-11; Fig. 7. Webster, 1988, p. 180.
Mississippian, Tournaisian. Russia, western Siberia

Cyclocrista(?) patugiata Dubatolova and Dubatolova, 1984, p. 164, Pl. 25, figs. 2-5; Fig. 8. Webster, 1988, p. 180.
Mississippian, Tournaisian. Russia, western Siberia

Cyclocrista torulosa Dubatolova *in* Dubatolova, 1976, p. 95, Pl. 25, figs. 2-4; Fig. 15. Webster, 1986, p. 342.
Pennsylvanian, Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Northeast Pribalkhash

Cyclocrista? sp. Gluchowski, 1986, p. 202, Pl. 1, fig. 6.
Mississippian, late Tournaisian. Poland

CYCLOCYCLICUS Yeltyschewa, 1955. **C. tenuis* Yeltyschewa, 1955.
Yeltyschewa, 1955a, p. 46. Yeltyschewa, 1956, p. 42, Fig. 1, no. 5E. Yeltyschewa, 1959, p. 233, Fig. 1, no. 5E. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 5E. Dubatolova, 1964, p. 9, Fig. 1, no. 5E. Skoropisceva, 1969, p. 47. Schewtschenko, 1971, p. 24. Webster, 1977, p. 194. Jeffords *in* Moore and Teichert, 1978, p. T933. Stukalina, 1986, p. 89. Webster, 1986, p. 342. Donovan,
1989d, p. 101. Donovan and Harper, 1993, p. 671. Webster, 1993, p. 146. Donovan, 1995b, p. 118. Fearnhead and Donovan, 2007c, p. 340. Donovn et al., 2012, p. 220.
Recognized number of named columnal species: 56 species. 17 Ordovician, 1 Floian, 2 Darriwilian, 5 Dapingian, 2 Sandbian, 5 Katian, 2 Hirnantian; 12 Silurian, 8 Llandoverian, 1 Llandoverian – Wenlockian, 1 Wenlockian, 2 uncertain; 4 Devonian, 1 Eifelian, 1 Givetian, 1 Givetian – Frasnian, 1 Famennian; 11 Mississippian, 2 Tournaisian, 2 Tournaisian – Viséan, 1 Viséan, 1
Viséan – Serpukhovian, 5 uncertain; 2 Early – Middle Carboniferous uncertain;1 Mississippian – Pennsylvanian, Tournaisian – Westphalian; 2 Pennsylvanian uncertain; 2 Middle Carboniferous uncertain; 1 Middle Carboniferous – Early Permian uncertain; 2 Late Permian uncertain; 1 late Palaeozoic uncertain
Late Ordovician - Early Permian. Russia
Mississippian, Permian. China
Silurian. Uzbekhistan
Middle – Late Ordovician. United Kingdom
Ordovician. Devonian - Mississippian. Kazakhstan
Mississippian - Pennsylvanian. Poland
Late Ordovician - Early Silurian. Estonia

Cyclocyclicus acutulus (Dubatolova, 1964)**.** Xu, Shan, and Chang, 1962, p. 124, Pl. 1, figs. 2a-d. (Not same species as *Anthinocrinus acutulus* Dubatolova, 1964, GDW)
Mississippian, Huaitoutala Formation. China, Qinghai

Cyclocyclicus aequiplicatus Yeltyschewa and Dubatolova, 1960a, p. 372, Pl. 70, fig. 5; Fig. 45. Yeltyschewa and Dubatolova, 1967, p. 58, Pl. 6, fig. 9; Fig. 23 (*non* Fig. 24 as listed p. 58). Yeltyschwa, 1969, p. 167, Pl. 58, figs. 6-7 (*non* Pl. 8 as given p. 167). Webster, 1973, p. 284. Webster, 1977, p. 194.
Devonian, Givetian - early Frasnian. Russia, Far East, Upper Amur Basin

Cyclocyclicus ampliatus Yeltyschewa, 1968, p. 47, Pl. 5, figs. 21-22. Webster, 1973, p. 284.
Silurian, Borschovsk Horizon. Russia, Podolia

Cyclocyclicus amplus Schewtschenko, 1971, p. 25, Pl. 5, figs. 12, 14-15; Fig. 30. Webster, 1977, p. 195.
Silurian, middle Llandoverian. Uzbekhistan, Zeravshan-Gissar Mountain Region

Cyclocyclicus arenarius Yeltyschewa and Schewtschenko, 1960 = **Arenariocrinus arenarius*

Cyclocyclicus arenarius var. *cingulatus* Yeltyschewa and Schewtschenko, 1960 = *Arenariocrinus arenarius cingulatus*

Cyclocyclicus arenarius var. *granulosus* Yeltyschewa and Schewtschenko, 1960 = *Arenariocrinus arenarius granulosus*

Cyclocyclicus arenarius var. *ordinatus* Yeltyschewa *in* Dubatolova and Shao, 1959 = *Arenariocrinus arenarius ordinatus*

Cyclocyclicus arenarius var. *laevis* Sisova, 1960, p. 59 (*nomen nudum*). Webster, 1973, p. 285.
Mississippian, late Viséan – Serpukhovian (Namurian). Kazakhstan

Cyclocyclicus arenarius var. *ordinata* Yeltyschewa *in* Dubatolova and Shao, 1959 = *Arenariocrinus arenarius ordinatus*

Cyclocyclicus brevitodentatus Dubatolova and Shao, 1959, p. 47, Pl. 1, fig. 14. Webster, 1973, p. 285.
Early - Middle Carboniferous. China, Kwangtung Province

Cyclocyclicus carinatus Yeltyschewa var. *carbonica* (Yeltyschewa, 1967). Xu, Shan, and Chang, 1962, p. 124, Pl. 1, figs. 3a-b. (Not same species as *Anthinocrinus carbonicus* Yeltyschewa *in* Yeltyschewa and Stukalina, 1967, GDW)
Mississippian, Chengqiangou Formation; Huaitoutala Formation. China, Qinghai

Cyclocyclicus chaneensis Dubatolova and Shao, 1959 = *Araxicrinus chanceensis*

Cyclocyclicus cf. *chanensis* Dubatolova and Shao, 1959. Mu and Wu, 1975, p. 312, Pl. 1, figs. 22-24. Webster, 1986, p. 342.
Late Paleozoic. China, Tingchieh Hsien

Cyclocyclicus circumvalatus Yeltyschewa *in* Dubatolova and Shao, 1959 = *Bicostulatocrinus circumvalatus*

Cyclocyclicus circumvallatus Yeltyschewa, 1959 = *Bicostulatocrinus circumvalatus*

Cyclocyclicus coronarius Tujutjan, 1972, p. 48, Figs. 1, nos. 3a-3b; 2, nos. a-b.
Ordovician, Katian, Ulkuntas Horizon. Southern Kazakhstan

Cyclocyclicus crassiformis Yeltyschewa, 1964 = **Simplocrinus crassiformis*

Cyclocyclicus crassituberculatus Yeltyschewa and Stukalina, 1977 = *Cycloocetocrinus crassituberculatus*

Cyclocyclicus crista Yeltyschewa *in* Sisova,1960, p. 58 (*nomen nudum*). Webster, 1973, p. 285.
Mississippian, Viséan. Central Kazakhstan

Cyclocyclicus crossfellensis Donovan, 1989d, p. 104, Fig. 35, nos. I-M. Webster, 1993, p. 146.
Ordovician, Katian (Ashgillian), Dufton Shales. United Kingdom

Cyclocyclicus crystalliferus Yeltyschewa, 1964a, p. 78, Pl. 3, figs. 5-6. Webster, 1973, p. 285.
Ordovician, Darriwilian (Trentonian?), Kunda Horizon. Estonia

Cyclocyclicus decadus Schewtschenko, 1971, p. 25, Pl. 5, figs. 11-13; Fig. 31. Webster, 1977, p. 195.
Silurian, middle Llandoverian. Tadzhistan, Zeravshan-Gissar Mountain Region

Cyclocyclicus depressus Donovan, 1989d, p. 104, Fig. 35, nos. F-G. Webster, 1993, p. 146.
Ordovician, Floian (Arenigian), Penmaen Dewi Formation. United Kingdom

Cyclocyclicus dibuliformis Schewtschenko, 1971, p. 26, Pl. 4, fig. 14; Fig. 32. Webster, 1977, p. 195.
Silurian, middle Llandoverian – Wenlockian. Tadzhistan, Zeravshan-Gissar Mountain Region

Cyclocyclicus dignus Yeltyschewa, 1959. Xu, Shan, and Chang, 1962, p. 125, Pl. 1, figs. 12a-b.
Mississippian, Huaitoutala Formation. China, Qinghai

Cyclocyclicus aff. *dignus* Yeltyschewa *in* Dubatolova and Shao, 1959, p. 53, Pl. 2, fig. 7. Webster, 1973, p. 285. Gluchowski, 1981b, p. 52, Pl. 4, fig. 11. Webster, 1988, p. 180.
Mississippian, Viséan. China, Hunan Province; Poland

Cyclocyclicus disparies Dubatolova and Shao, 1959, p. 56, Pl. 2, fig. 10. Webster, 1973, p. 285.
Late Permian. China, Hunan Province

Cyclocyclicus dubatolowae Shao and Chang *in* Xu, Shan, and Chang, 1962, p. 126, Pl. 2, figs. 8a-8b.
Middle Carboniferous, lower part of Keluke Group. China, Qinghai

Cyclocyclicus echinatus Yeltyschewa *in* Stukalina, 1965 = *Asperocrinus echinatus*

Cyclocyclicus echinus Donovan, 1989d, p. 104, Pl. 11, fig. 6. Webster, 1993, p. 146.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Cyclocyclicus elatus Sisova, 1991, p. 165, Pl. 1, figs. 11-12.
Mississippian, late Tournaisian. Southern Kazakhstan

Cyclocyclicus fastigatus Yeltyschewa, 1975, p. 139, Pl. 2, figs. 8-9. Gluchowski, 1977, p. 309, Fig. 1. Gluchowski, 1981a, p. 101, Fig. 3. Gluchowski, 1981b, p. 52, Pl. 1, fig. 7. Webster, 1986, p. 342. Webster, 1988, p. 181. Gluchowski, Piotrowski, and
Tomczykowa, 1991, p. 294, Pl. 108, figs. 16-18.
Silurian, Wenlockian, Kitaigorod Horizon, Demshin Layer. Russia, Podolia
Silurian, Bielskian, Podlasian. Poland

Cyclocyclicus feoffnewalli Fearnhead and Donovan, 2007c, p. 340, Figs. 1-4.
Silurian, Llandoverian, *Pentamerus* Beds. United Kingdom

Cyclocyclicus (col) *foraminosus* Donovan and Harper, 1992. Donovan, 1994, p. 78, Fig. 9, no. A. Donovan, 1995a, p. 14, Fig. 1, no. a. Donovan, 1995b, p. 118, Pl. 14, fig. 18.
Late Ordovician, Hirnantian, High Mains Formation. United Kingdom, Scotland

Cyclocyclicus (col.) sp. cf. *C.* (col.) *foraminosus* Donovan and Harper, 1933. Donovan and Wright, 1995, p. 235, Fig. 2, no. B.
Late Ordovician, Hirnantian. United Kingdom

Cyclocyclicus geolfnewalli Fearnhead and Dodnovan 2007b. Donovan et al., 2012, p. 223.
Silurian, Llandoverian (Telchian), *Pentamerus* Beds. United Kingdom, Shopshire

Cyclocyclicus gyratus Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961, p. 559, Pl. D-87, fig. 18. Webster, 1973, p. 285.

Devonian, Eifelian, Shandin Layer. Russia, Salair

Cyclocyclicus hissariensis Yeltyschewa and Schewtschenko, 1960 = *Arenariocrinus hissariensis*

Cyclocyclicus kuangtungensis Dubatolova and Shao, 1959, p. 52, Pl. 2, fig. 5. Webster, 1973, p. 285. Gluchowski, 1981b, p. 51, Pl. 4, fig. 10. Webster, 1988, p. 181.
Carboniferous, Tournaisian. China, Hunan Province, Kwangtung Province
Carboniferous, Viséan. Poland

Cyclocyclicus infacetus Stukalina, 1960, p. 108, Fig. 7. Webster, 1973, p. 285.
Silurian, Llandoverian. Uzbekhistan, Chingiz Mountains

Cyclocyclicus minimus Donovan, 1989d, p. 105, Pl. 10, fig. 6. Webster, 1993, p. 146.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Cyclocyclicus mirandus Yeltyschewa *in* Dubatolova and Shao, 1959 = *Arenariocrinus mirandus*

Cyclocyclicus mui Dubatolova and Shao, 1959 = *Bicostulatocrinus? mui* = *Araxicrinus mui*

Cyclocyclicus cf. *mui* Dubatolova and Shao, 1959. Mu and Wu, 1975, p. 313, Pl. 1, fig. 25. Webster, 1986, p. 343.
Late Paleozoic. China, Tingchieh Hsien

Cyclocyclicus multigranulatus Yeltyschewa and Stukalina, 1977 = *Cycloocetocrinus multigranulatus*

Cyclocyclicus nuraensis Sisova, 1960, p. 55 (*nomen nudum*). Webster, 1973, p. 285.
Devonian, Famennian. Kazakhstan

Cyclocyclicus orbitus Dubatolova, 1964, p. 98, Pl. 14, fig. 15. Webster, 1973, p. 286.
Devonian, Givetian. Russia, Kuznetz Basin

Cyclocyclicus orulganicus Skoropisceva, 1969, p. 47, Pl. 6, fig. 4. Webster, 1977, p. 195.
Middle Carboniferous - Early Permian. Russia, Northern Verkhoyane, Khrebet Orulgan

Cyclocyclicus ottuktachensis Skoropisceva, 1969, p. 47, Pl. 6, fig. 3. Webster, 1977, p. 195.
Pennsylvanian. Russia, Verkhoyane

Cyclocyclicus paludatus Dubatolova, 1964 = *Peribolocrinus paludatus*

Cyclocyclicus cf. *pauper* Dubatolova and Chang (MS) *in* Xu, Shan, and Chang, 1962, p. 126, Pl. 2, figs. 9a-c.
Mississippian, Huaitoutala Formation. China, Qinghai

Cyclocyclicus (col) *periogmos* Donovan and Harper, 1993, p. 672, Fig. 2, nos. c-d, f-h. Donovan, 1994, p. 78, Fig. 9, no. F. Donovan, 1995a, p. 14, Fig. 1, no. g. Donovan, 1995b, p. 119, Pl. 14, figs. 10, 16.
Ordovician, Hirnantian, High Mains Formation. United Kingdom, Scotland

Cyclocyclicus perpusillus Dubatolova and Shao, 1959, p. 47, Pl. 1, fig. 13. Webster, 1973, p. 286. Gluchowski, 1981b, p. 51, Pl. 4, fig. 7. Webster, 1988, p. 181.
Mississippian, Tournaisian – Pennsylvanian, Westphalian A. Poland

Cyclocyclicus cf. *phacosus* Dubatolova and Wang (MS) *in* Xu, Shan, and Chang, 1962,
p. 127, Pl. 1, figs. 8a-8b.
Middle Carboniferous, upper part of Keluke Group. China, Qinghai

Cyclocyclicus proximus Dubatolova, 1964 = **Peribolocrinus proximus*

Cyclocyclicus pulcher Yeltyschewa *in* Dubatolova and Shao, 1959 = *Kasachstanocrinus pulcher* = *Pentaridica pulcher*

Cyclocyclicus cf. *pulcher* Yeltyschewa *in* Dubatolova and Shao, 1959. Mu and Wu, 1975, p. 313, Pl. 1, figs. 26-29. Webster, 1986, p. 343.
Carboniferous-Permian. China, Amgjen Hsien

Cyclocyclicus punctatus Skoropisceva, 1969, p. 48, Pl. 6, figs. 5a-5b. Webster, 1977, p. 196.
Pennsylvanian. Russia, Verkhoyane

Cyclocyclicus qamdoensis Mu and Lin, 1982, p. 207, Pl. 1, figs. 1-5; Fig. 1. Webster, 1988, p. 181.
Late Permian, Tuoba Coal Formation. China, Tibet

Cyclocyclicus radius Donovan, 1989d, p. 106, Pl. 12, fig. 9; Fig. 35, nos. A-B. Webster, 1993, p. 146.
Ordovician, Sandbian (Caradocian), upper part of Coston Formation. United Kingdom

Cyclocyclicus raikkulaensis Yeltyschewa, 1975, p. 136, Pl. 1, figs. 13-15. Gluchowski, 1977, p. 309, Fig. 2. Webster, 1986, p. 343.
Silurian, Llandoverian, Raikkiula Horizon. Estonia

Cyclocyclicus rarigranulatus Yeltyschewa and Stukalina, 1977 = *Cycloocetocrinus rarigranulatus*

Cyclocyclicus rarus Schewtschenko, 1966, p. 169, Pl. 5, fig. 13; Fig. 41. Webster, 1973, p. 286.
Late Silurian, Shishkat Horizon. Uzbekisatan, Zeravshan Mountains

Cyclocyclicus rhopus Donovan, 1989d, p. 106, Pl. 12, fig. 3; Fig. 38, nos. D-F. Webster, 1993, p. 146.
Ordovician, Dapingian (Arenigian), Treiorwerth Formation. United Kingdom

Cyclocyclicus romanus Donovan, 1989d, p. 106, Fig. 36, nos. G-J. Webster, 1993, p. 146.
Ordovician, Darriwilian (Arenigian or Llanvirnian). United Kingdom

Cyclocyclicus rugosus Yeltyschewa and Schewtschenko, 1960 = *Arenariocrinus rugosus* = *Graphosterigma rugosus*

Cyclocyclicus scalariformis Yeltyschewa, 1960 = **Scalaricrinus scalariformis*

Cyclocyclicus sibiricus Yeltyschewa, 1960, p. 24, Pl. 4, figs. 6-7. Webster, 1973, p. 286.
Silurian, Llandoverian?. Russia, Siberian Platform

Cyclocyclicus strigiliferus Yeltyschewa and Dubatolova, 1967, p. 59, Pl. 6, fig. 20; Fig. 24. Webster, 1973, p. 286.
Mississippian. Russia, Upper Priamur

Cyclocyclicus subincrustatus Schewtschenko, 1968a, p. 281, Pl. 66, fig. 6; Fig. 33. Webster, 1973, p. 286.
Middle Carboniferous. Russia, Pamir

Cyclocyclicus subsulcatus Yeltyschewa and Schewtschenko, 1960, p. 122, Pl. 2, figs. 3-4. Webster, 1973, p. 286. Yeltyschewa and Polyarnaya, 1975, p. 207, Pl. 95, fig. 7. Webster, 1986, p. 343.
Mississippian, Viséan – Serpukhovian (Namurian). Russia, Darvus, Southern Ural Mountains

Cyclocyclicus suni Dubatolova and Shao, 1959, p. 51, Pl. 2, fig. 4. Xu, Shan, and Chang, 1962, p. 125, Pl. 1, figs. 4a-b. Webster, 1973, p. 286. Gluchowski, 1981b, p. 51, Pl. 4, fig. 9. Webster, 1988, p. 181.
Mississippian, Tournaisian - Viséan, Huaitoutala Formation. China, Hunan Province, Kwangtung Province; Poland

Cyclocyclicus tenuis Yeltyschewa, 1955 = *Dentiferocrinus tenuis*

Cyclocyclicus ex. gr. *tenuis* Yeltyschewa, 1955. Milicina, 1985, p. 55, Pl. I, fig. 8. Webster, 1988, p. 181.
Silurian, Llandoverian, Middle Perseiskoi Suite. Russia, Nova Zemlya

Cyclocyclicus tieni Dubatolova and Shao, 1959. Gluchowski, 1981b, p. 51, Pl. 4, fig. 8. Webster, 1988, p. 181.
Mississippian, Tournaisian. Poland

Cyclocyclicus tortousus Sisova, 1960, p. 59 (*nomen nudum*). Webster, 1973, p. 286.
Mississippian, Viséan. Kazakhstan

Cyclocyclicus aff. *transformis* Dubatolova and Chang (MS) *in* Xu, Shan, and Chang, 1962, p. 126, Pl. 1, fig. 10a.
Middle Carboniferous, upper part of Keluke Group. China, Qinghai

Cyclocyclicus treiorwerthensis Donovan, 1989d, p. 108, Pl. 12, fig. 5; Fig. 38, nos. A-B, K-L. Webster, 1993, p. 147.
Ordovician, Dapingian (Arenigian), Treiorwerth Formation. United Kingdom

Cyclocyclicus cf. *treslineatus* Yeltyschewa**.** Xu, Shan, and Chang, 1962, p. 125, Pl. 1, figs. 7a-b.
Note. I can find no species designated as *treslineatus* by Yeltyschewa or any other author, GDW, 2003.
Mississippian, Huaitoutala Formation. China, Qinghai

Cyclocyclicus triffletonensis Donovan, 1989d, Pl. 12, fig. 4; Figs. 35, nos. D-E; 38, nos. I, J; 39. Webster, 1993, p. 147.
Ordovician, Dapingian (Arenigian), Blaencedin Formation. United Kingdom

Cyclocyclicus turbineus Donovan, 1989d, p. 109, Pl. 12, figs. 6-8; Figs. 38, nos. C, G-H; 40. Webster, 1993, p. 147.
Ordovician, Dapingian (Arenigian), Treiorwerth Formation. United Kingdom

Cyclocyclicus turricolumnus Donovan, 1989d, p. 110, Pl. 10, fig. 1. Webster, 1993, p. 147.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Cyclocyclicus ungulatus Yeltyschewa, 1966, p. 65, Pl. 3, fig. 6. Webster, 1973, p. 286.
Ordovician, Sandbian, Idavere Horizon. Estonia

Cyclocyclicus variabilis Yeltyschewa, 1964a, p. 77, Pl. 3, figs. 1-4. Webster, 1973, p. 286.
Ordovician. Dapingian, Volkov Horizon. Russia, St. Petersburg vicinity

Cyclocyclicus verrocosus Yeltyschewa, 1977 = *Cycloocetocrinus verrucosus*

Cyclocyclicus verrucosus Yeltyschewa, 1977 = *Cycloocetocrinus verrucosus*

Cyclocyclicus yeltyshevae Donovan, 1989. *Nomen correctum.* Webster, 1993, p. 147.
Cyclocyclicus yeltyschevai Donovan, 1989d, p. 111, Pl. 11, fig. 10; Fig. 41. Webster, 1993, p. 147.

Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Cyclocyclicus yeltyschevai Donovan, 1989 = *Cyclocyclicus yeltyshevae*

Cyclocyclicus sp. A Donovan, 1989d, p. 111, Fig. 35, no. H. Webster, 1993, p. 147.
Ordovician. Ireland

Cyclocyclicus sp. B Donovan, 1989d, p. 111, Fig. 36, nos. A-C. Webster, 1993, p. 147.
Ordovician, Darriwilian (early Llandeilian), Meadowtown Beds. United Kingdom

Cyclocyclicus sp. C Donovan, 1989d, p. 112, Fig. 36, nos. K-L. Webster, 1993, p. 147.
Ordovician, Caradocian, upper part of Coston Formation. United Kingdom

Cyclocyclicus spp.
Mu and Wu, 1975, p. 312, Pl. 1, fig. 21. Webster, 1986, p. 343.
Middle Ordovician, upper part of Chaitsun Group. China, Nyalomu Hsien
Mu and Lin, 1982, p. 208, Pl. 1, fig. 15. Webster, 1988, p. 181.
Mississippian - Permian. China, Tibet
Donovan and Harper, 2003, p. 88, Fig. 2, no. G. Donovan et al., 2012, p. 225, Pl. 61,
Figs. 7, 10.
Silurian, upper Llandovery, Finny School Member, Kilbride Formation. Ireland
Silurian, Llandoverian, Rhuddanian/Acronian boundary. U[[ermost part of Brassfield FormationUnited kingdom, Wales; United States, Ohio
Lewis, Donovan, and Sawford, 2003, p. 315, Fig. 3, nos. i-l, o.
Mississippian, Holkerian, Clifton Down Limestone. United Kingdom

CYCLOCYCLOPA Moore, 1939. *Nomen vetitum *C. acaticarinata* Moore, 1939.
Moore, 1939b, p. 189. Jeffords *in* Moore and Teichert, 1978, p. T936.
Recognized number of named columnal species: 1 Pennsylvanian, Missourian species
Pennsylvanian, Missourian. United States, Kansas

Cyclocyclopa acaticarinata Moore, 1939b, p. 189, Pl. 1, figs. 8a-8b.
Pennsylvanian, Missourian, Stanton Formation, Stoner Limestone Member. United States, Kansas

CYCLOCYCLOPA Wright, 1983 (*non* Moore, 1939). *Nomen nudum.*
Wright, D. K., 1983, p. 592, Unnum. Fig. Webster, 1988, p. 181.
Ordovician, Katian. United Kingdom

Cyclocyclopa 1 Wright, D. K., 1983, p. 592, Pl. 65, fig. 6; Unnum. Fig. p. 592. Webster, 1988, p. 181.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 1a Wright, D. K., 1983, p. 592, Unnum Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 2 Wright, D. K., 1983, p. 592, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 3 Wright, D. K., 1983, p. 592, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 4 Wright, D. K., 1983, p. 592, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 5 Wright, D. K., 1983, p. 592, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 6 Wright, D. K., 1983, p. 592, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 7 Wright, D. K., 1983, p. 592, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 7a Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 8 Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 9 Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 9a Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 10 Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 11 Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 12 Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

Cyclocyclopa 13 Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 182.
Ordovician, Katian (Caradocian). United Kingdom

CYCLOELLIPTICUS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 5F. Yeltyschewa, 1959, p. 233, Fig. 1, no. 5F. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 5F. Dubatolova, 1964, p. 9, Fig. 1, no.

5F. Webster, 1973, p. 286. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species

CYCLOHEXAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 5D. Yeltyschewa, 1959, p. 233, Fig. 1, no. 5D. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 5D. Dubatolova, 1964, p. 9, Fig. 1, no. 5D. Webster, 1973, p. 287. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species

CYCLOHEXAGONALIS Donovan, 1989 (*non* Yeltyschewa, 1956). **C. floreatus* Donovan, 1989.
Donovan, 1989d, p. 96. Webster, 1993, p. 147. Jeffords *in* Moore and Teichert, 1978, p. T936.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian (late Llanvirnian). United Kingdom

**Cyclohexagonalis floreatus* Donovan, 1989d, p. 97, Pl. 8, fig. 4; Fig. 34, nos. H-I. Webster, 1993, p. 147.
Ordovician, Darriwilian (late Llanvirnian), Flairfach Group. United Kingdom

CYCLOMISCHUS Moore and Jeffords, 1968. **C. shelbyensis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 58. Webster, 1973, p. 287. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species:3 Silurian, Niagaran species
Silurian, Niagaran. United States

Cyclomischus alternatus Moore and Jeffords, 1968, p. 59, Pl. 11, fig. 1. Webster, 1973, p. 287.
Silurian, Niagaran, Waldron Shale. United States, Indiana

**Cyclomischus shelbyensis* Moore and Jeffords, 1968, p. 58, Pl. 10, figs. 3-4. Webster, 1973, p. 287.
Silurian, Niagaran, Waldron, Shale. United States, Indiana

Cyclomischus tennesseensis Moore and Jeffords, 1968, p. 59, Pl. 12, fig. 1. Webster, 1973, p. 287.
Silurian, Niagaran, Waldron Shale. United States, Tennessee

CYCLOMONILE Moore and Jeffords, 1968. **C. monile* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 58. Webster, 1973, p. 287. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 2 Ordovician, Katian species
Ordovician, Katian (Trentonian). United States, Russia

Cyclomonile denticulata Yeltyschewa, 1979, p. 100, Pl. 2, figs. 4-5. Webster, 1986, p. 343.
Ordovician, Katian (Trentonian), Nabala Horizon. Russia

**Cyclomonile monile* Moore and Jeffords, 1968, p. 58, Pl. 10, figs. 3-4. Webster, 1973, p. 287.
Ordovician, Katian (Trentonian), Catheys Limestone. United States, Tennessee

Cyclomonile sp. Titus, 1979, p. 112, Figs. 7, no. 9; 8, no. 4. Webster, 1986, p. 343.
Ordovician, Katian (early Trentonian). United States, New York

CYCLOOCETOCRINUS Dubatolova, 1980. **C. ruidus* Dubatolova, 1980.
Dubatolova, 1980, p. 145. Webster, 1986, p. 343. Webster, 1988, p. 182. Webster, 1993, p. 147.
Recognized number of named columnal species: 6 Devonian species, 1 Emsian, 1 Eifelian, 1 Givetian, 3 uncertain
Early - Middle Devonian. Russia
Devonian, Emsian – Givetian. Poland

Cycloocetocrinus crassituberculatus (Yeltyschewa and Stukalina, 1977). Webster, 1986, p. 344.
Cyclocyclicus crassituberculatus Yeltyschewa and Stukalina, 1977, p. 222, Pl. 3, figs. 1-4. Dubatolova, 1980, p. 145. Webster, 1986, p. 344.
Devonian, Givetian. Russia, Central Taymyr, Nova Zemlya

Cycloocetocrinus multigranulatus (Yeltyschewa and Stukalina, 1977). Webster, 1986, p. 344. Gluchowski, 1993a, p. 64, Fig. 13, nos. G-H.
Cyclocyclicus multigranulatus Yeltyschewa and Stukalina, 1977, p. 223, Pl. 3, fig. 10. Dubatolvoa, 1980, p. 145. Gluchowski, 1981b, p. 50, Pl. 4, fig. 5. Webster, 1986, p. 344. Webster, 1988, p. 181.
Devonian, Eifelian. Russia, Nova Zemlya
Devonian, Eifelian-Givetian boundary, Skaly Beds. Poland

Cycloocetocrinus rarigranulatus (Yeltyschewa and Stukalina, 1977). Webster, 1986, p. 344.
Cyclocyclicus rarigranulatus Yeltyschewa and Stukalina, 1977, p. 223, Pl. 3, fig. 10. Dubatolova, 1980, p. 145. Gluchowski, 1981b, p. 50, Pl. 4, fig. 6. Webster, 1986, p. 344. Webster, 1988, p. 181.
Early Devonian, Valne Horizon. Russia, Nova Zemlya
Devonian, Givetian, Skaly Beds. Poland

Cycloocetocrinus aff. *rarigranulatus* (Yeltyschewa and Stukalina, 1977). Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 12.
Devonian, late Givetian. Poland

**Cycloocetocrinus ruidus* Dubatolova, 1980, p. 145, Pl. 22, figs. 3-6; Fig. 38. Dubatolova, 1984, p. 112, Pl. 15, figs. 9-12; Fig. 12. Webster, 1986, p. 344. Dubatolova, 1988, p. 76, Pl. 17, figs. 4-9; Fig. p. 68, no. p. Webster, 1988, p. 183. Gluchowski, 1993b, p. 171, Pl. 5, figs. 5-6. Webster, 1993, p. 147.
Middle Devonian, Zlikhov Layer; Ilin Suite (upper part of Beloubin Suite); Vechernin Suite. Russia, Altai Mountains, Omulev Mountains

Devonian, late Emsian, Bukowa Gora Shales Formation. Poland

Cycloocetocrinus scabiosus Dubatolova, 1980, p. 147, Pl. 22, figs. 7-9; Fig. 39. Webster, 1986, p. 344. Dubatolova, 1988, p. 77, Pl. 17, figs. 10-14, Fig. p. 68, no. r. Webster, 1993, p. 147.
Middle Devonian, Ilin Suite (upper part of Beloubin Suite). Russia, Altai Mountains

Cycloocetocrinus verrucosus (Yeltyschewa *in* Yeltyschewa and Stukalina, 1977). Webster, 1986, p. 344.
Cyclocyclicus verrucosus Yeltyschewa *in* Yeltyschewa and Stukalina, 1977, p. 224, Pl. 3, fig. 13. Webster, 1986, p. 344.
Cyclocyclicus verrocosus Yeltyschewa *in* Yeltyschewa and Stukalina, 1977. Dubatolova, 1980, p. 145 (sic).
Devonian, Eifelian. Russia, Nova Zemlya

Cycloocetocrinus spp.
Gluchowski, 1993a, p. 64, Fig. 13, no. I.
Devonian, Eifelian-Givetian boundary - early Frasnian, Skaly Beds; Laskowa Gory Beds, lower part of Wietrznia Beds, *Phlogoiderhynchus* Level. Poland
Gluchowski, 2005, p. 321, Figs. 3, nos. G-H; 5, no. H.
Devonian, late Eifelian, Skaly Beds. Poland
Gluchowski, Casier, and Olempska, 2006, p. 701, Fig. 3, no. U.
Devonian, early middle Frasnian, middle part of Wietrznia Beds. Poland

CYCLOPAGODA Moore and Jeffords, 1968. **C. alternata* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 57. Webster, 1973, p. 287. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 344.
Recognized number of named columnal species: 5 Ordovician Katian species
Ordovician, Katian. United States, Estonia, Russia

Cyclopagoda alikhovae Yeltsychewa, 1979, p. 99, Pl. 2, figs. 10-11. Webster, 1986, p. 344.
Ordovician, Katian, Vormsi Horizon. Estonia

**Cyclopagoda alternata* Moore and Jeffords, 1968, p. 57, Pl. 10, figs. 5-6. Webster, 1973, p. 287.
Ordovician, Katian (Cincinnatian). United States, Ohio

Cyclopagoda anulata Yeltyschewa, 1979, p. 99, Pl. 1, fig. 13. Webster, 1986, p. 344.
Ordovician, Katian, Nabla Horizon. Russia

Cyclopagoda costata Moore and Jeffords, 1968, p. 57, Pl. 10, figs. 1-2. Webster, 1973, p. 287.
Ordovician, Katian (Cincinnatian). United States, Ohio

Cyclopagoda tubuliforma Yeltyschewa, 1979, p. 100, Pl. 2, figs. 13-14. Webster, 1986, p. 344.
Ordovician, Katian, Vormsi Horizon. Estonia

Cyclopagoda vormsiensis (Yeltyschewa, 1975) = *Crenatocrinus vormsiensis*

Cyclopagoda sp. Termier, Termier, and Vachard, 1977, p. 97 (probably not a *Cyclopagoda,* GDW). Webster, 1986, p. 345.
Permian, Merbah el Oussif Series. Southern Tunisia

"Cyclopentagonalic columnal" species Donovan, 1995b, p. 136, Fig. 46, no. I.
Ordovician, Hirnantian (late Ashgillian), Keisley Limestone. United Kingdom

CYCLOPENTAGONALIS Yeltyschewa, 1964. *Nomen Vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1,no. 5C. Yeltyschewa, 1959, p. 233, Fig. 1, no. 5C. Yeltyschewa, 1964a, p. 76. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 5C. Dubatolova, 1964, p. 9, Fig. 1, no. 5C. Schewtschenko, 1971, p. 20. Webster, 1977, p. 196. Jeffords *in* Moore and Teichert, 1978, p. T933. Stukalina, 1986, p. 75. Webster, 1986, p. 345. Webster, 1993, p. 148.
Recognized number of named columnal species: 4 species. 2 Ordovician, Sandbian;
1 Silurian, early Llandoverian; 1 Early Permian, series uncertain
Ordovician, Sandbian. Uzbekistan, Russia, Estonia
Silurian, early Llandoverian. Tadzhistan
Early Permian, series uncertain. China, Fujian Province

Cyclopentagonalis balticus Yeltsychewa, 1964 = **Baltocrinus balticus*

Cyclopentagonalis gissarensis (Stukalina and Schewshenko, 1991). Rakhmonov and Ghobadi Pour, 2008, p. 59, Pl. 107, figs. 11-23.
Baltocrinus gissarensis Stukalina, 1986c, p. 60, Pl. 6, figs. 134-15 (*nomen nudum*). Webster, 1993, p. 133. Rakhmonov and Ghobadi Pour, 2008, p. 59. Stukalina and Schewtschenko, 1991, p. 31, Pl. 95, figs. 14-15.
Ordovician, Sandbian (Caradocian), Obikalhon Beds. Uzbekistan, Zeravshan Range

Cyclopentagonalis guttaeformis Yeltyschewa, 1966 = *Baltocrinus guttaeformis*

Cyclopentagonalis hrevicaenesis Yeltyschewa, 1966 = *Baltocrinus hrevicaensis*

Cyclopentagonalis hrevicaensis Yeltyschewa, 1966 = *Baltocrinus hrevicaensis*

Cyclopentagonalis lobatus (Eichwald, 1861). Rakhmonov and Ghobadi Pour, 2008, p. 59, Pl. 107, figs. 18-20. Rakhmonov and Ghobadi Pour, 2008, p. 59.
Pentacrinus lobatus Eichwald, 1861, p. 578, Pl. 31, figs. 24a-24b, 25a-25b. Eichwald, 1861, p. 158, Pl. 10, fig. 25. Rakhmonov and Ghobadi Pour, 2008, p. 59.
Pentagonopentagonalis lobatus (Eichwald, 1861). Yeltyschewa, 1966, p. 58, Pl. 3, figs. 3-5. Webster, 1973, p. 313. Stukalina, 1979b, p. 91. Stukalina, 1980c, p. 473. Webster, 1986, p. 332. Rakhmonov and Ghobadi Pour, 2008, p. 59.
Baltocrinus lobatus (Eichwald, 1861). Stukalina, 1979b, p. 91. Stukalina, 1980c, p. 473. Yeltyschewa, 1966, p. 58. Webster, 1973, p. 313. Stukalina, 1979b, p. 91.

Stukalina, 1980c, p. 473. Stukalina, 1986, p. 64, Pl. 12, figs. 4-7. Webster, 1986, p. 332. Stukalina, 1988c, p. 59, Pl. 6, fig. 1. Webster, 1993, p. 133. Rakhmonov and Ghobadi Pour, 2008, p. 59.
Ordovician, early Sandbian (early Caradocian), Obikalhon Beds. Uzbekistan, Zeravshan Range
Ordovician, Sandbian, Khrevit and Idavere Horizons. Estonia; Russia, Poulkowa near St. Petersburg

Cyclopentagonalis pulcher var. *carbonica* Sisova, 1960, p. 60 (*nomen nudum*).
Note: species initially assigned to *Cyclocyclicus*.
Carboniferous, late Viséan - Namurian. Kazakhstan

Cyclopentagonalis quinquelobus Mu and Lin, 1983, p. 353, Pl. 130, figs. 10-13. Webster, 1988, p. 183.
Early Permian. China, Fujian Province

Cyclopentagonalis serratus Yeltyschewa, 1966 = *Baltocrinus serratus*

Cyclopentagonalis stella Yeltyschewa, 1966 = *Yeltyschewaecrinus stella*

Cyclopentagonalis subflosculus Schewtschenko, 1971, p. 20, Pl. 4, fig. 4; Fig. 23. Webster, 1977, p. 196.
Silurian, early Llandoverian. Tadzhistan, Zeravshan-Gissar Mountain Region

CYCLOPENTAGONOPA Moore, 1939. *Nomen Vetitum* **C. granulosa* Moore, 1939. Moore, 1939b, p. 190.
Recognized number of named columnal species: 2 Pennsylvanian, Desmoinesian species
Pennsylvanian, Desmoinesian. United States, Kansas, Oklahoma

**Cyclopentagonopa granulosa* Moore, 1939b, p. 190, Pl. 1, figs. 1a-1b.
Pennsylvanian, Desmoinesian, Savanna Formation, San Creek Limestone Member. United States, Oklahoma

Cyclopentagonopa excentrica Moore, 1939b, p. 191, Pl. 1, figs. 2a-2b.
Pennsylvanian, Desmoinesian, cap rock of Mineral Coal. United States, Kansas

CYCLOPENTAGONOPA Wright, D. K., 1983 (non Moore, 1939). *Nomen nudum* Wright, 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovian, Katian. United Kingdom

Cyclopentagonopa 1 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

Cyclopentagonopa 2 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

Cyclopentagonopa 3 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.

Ordovician, Katian (Caradocian). United Kingdom

Cyclopentagonopa 4 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

Cyclopentagonopa 5 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

Cyclopentagonopa 6 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

Cyclopentagonopa 7 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

Cyclopentagonopa 8 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

CYCLOPENTASTELLATOPA Wright, 1983. *Nomen nudum*
Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian. United Kingdom

Cyclopentastellatopa 1 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

Cyclopentastellatopa 2 Wright, D. K., 1983, p. 594, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

Cyclopentastellatopa 3 Wright, D. K., 1983, p. 595, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

Cyclopentastellatopa 4 Wright, D. K., 1983, p. 595, Unnum. Fig. Webster, 1988, p. 183.
Ordovician, Katian (Caradocian). United Kingdom

CYCLOSCAPUS Moore and Jeffords, 1968. **C. laevis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 83. Webster, 1973, p. 287. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 1 Pennsylvanian, Desmoinesian species
Pennsylvanian, Desmoinesian. United States

**Cycloacapus laevis* Moore and Jeffords, 1968, p. 83, Pl. 27, fig. 15. Webster, 1973, p. 287. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. f
Pennsylvanian, Atokan = early late Moscovian, La Joya Formation. Mexico
Pennsylvanian, Desmoinesian, Mingus Shale. United States, Texas

Cycloscapus sp. Gluchowski and Racki, 2005, p. 167, Fig. 5, no. F.
Mississippian, Tournaisian, Pilton Beds. United Kingdom, North Devon

CYCLOSTELECHUS Moore and Jeffords, 1968. **C. turritus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 75. Webster, 1973, p. 288. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 1 Mississippian, Visean species
Mississippian, Viséan (Osagean). United States

**Cyclostelechus turritus* Moore and Jeffords, 1968, p. 76, Pl. 23, fig. 3. Webster, 1973, p. 288. Martínez, Martínez, and Montero, 1987, p. 404, Pl. 1, figs. 1-2.
Mississippian, Viséan (Osagean), Burlington Limestone; Patlanoaya Formation.
United States, Iowa; Mexico

Cyclostelechus? sp. Gluchowski, 2002, p. 323, Fig. 3, no. X.
Devonian, Famennian, *Pa. crepida* to *S. praesulcata* Biozones. Poland

CYCLOTETRAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 5B. Yeltyschewa, 1959, p. 233, Fig. 1, no. 5B. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 5B. Dubatolova, 1964, p. 9, Fig. 1, no. 5B. Webster, 1973, p. 288. Jeffords *in* Moore and Teichert, 1978, p. T933.
Theoretical genus, no known species

CYCLOTRIGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 5A. Yeltyschewa, 1959, p. 233, Fig. 1, no. 5A. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 5A. Dubatolova, 1964, p. 9, Fig. 1, no. 5A. Webster, 1973, p. 288. Jeffords *in* Moore and Teichert, 1978, p. T933.
Theoretical genus, no known species

CYCLOTRISTELLATOPA Wright, 1983. *Nomen nudum*
Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 184.
Ordovician, Katian (Caradocian). United Kingdom

Cyclotristellatopa 1 Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 184.
Ordovician, Katian (Caradocian). United Kingdom

Cyclotristellatopa 2 Wright, D. K., 1983, p. 593, Unnum. Fig. Webster, 1988, p. 184.
Ordovician, Katian (Caradocian). United Kingdom

CYLINDROCAULISCUS Moore and Jeffords, 1968. **C. fiski* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 62. Webster, 1973, p. 288. Webster, 1986, p. 345. Webster, 1988, p. 184.
Recognized number of named columnal species: 3 species. 1 Mississippian, Tournaisian; 2 Pennsylvanian, 1 Desmoinesian, 1 Westphalian A
Mississippian, Tournaisian, Pennsylvanian Westphalian A. Poland

Pennsylvanian, Desmoinesian. United States

Cylindrocauliscus bicruris Dubatolova *in* Dubatolov, 1976, p. 87, Pl. 24, figs. 6-8; Fig. 8. Gluchowski, 1981b, p. 43, Pl. 5, fig. 14. Webster, 1986, p. 345. Webster, 1988, p. 184.
Pnnsylvanian, Westphalian A. Poland

**Cylindrocauliscus fiski* Moore and Jeffords, 1968, p. 62, Pl. 14, fig. 5. Webster, 1973, p. 288. Buitrón, Patiño, and Moreno, 1987, p. 130, Fig. 1.
Early – Middle Pennsylvanian, Desmoinesian, Mingus Shale; lower part of Santa Rosa Formation. United States, Texas; Mexico

**Cylindrocauliscus fiski?* Moore and Jeffords, 1968. Buitrón, 1977, p. 148, Fig. 2, no. F. Webster, 1986, p. 345.
Pennsylvanian. Mexico, Chiapas

Cylindrocauliscus multicostatus Gluchowski, 1986, p. 198, Pl. 1, fig. 5.
Mississippian, late Tournaisian. Poland

CYMATOCRINUS Dubatolova, 1971. **C. undulaticostatus* Dubatolova, 1971.
Dubatolova, 1971, p. 74. Webster, 1977, p. 196. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 345.
Recognized number of named columnal species: 1 Middle Devonian species
Middle Devonian. Russia

**Cymatocrinus undulaticostatus* Dubatolova, 1971, p. 74, Pl. 8, figs. 11-12; Fig. 34. Milicina, 1977b, p. 134, Pl. 5, fig. 2. Webster, 1977, p. 196. Webster, 1986, p. 345.
Middle Devonian. Russia, Northeastern Salair, Eastern Slope Ural Mountains

CYPHOSTELECHUS Moore and Jeffords, 1968. **C. claudus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 62. Webster, 1973, p. 288. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 1 Pennsylvanian, Desmoinesian species
Pennsylvanian, Desmoinesian. United States

**Cyphostelechus claudus* Moore and Jeffords, 1968, p. 63, Pl. 14, fig. 4. Webster, 1973, p. 288.
Pennsylvanian, Desmoinesian, Mingus Shale. United States, Texas

Cystidea nugatula Barrande, 1887. Sprinkle, 1973a, p. 183, Pl. 33, fig. 11. Webster, 1977, p. 196.
Middle Ordovician, Darriwilian. Czech Republic, Bohemia

CYSTICRINUS Zittel, 1880 = ***CYSTOCRINUS***

CYSTOCRINUS Roemer, 1860. **C. tennesseensis* Roemer, 1860.
Roemer, 1860, p. 56, 760. Wachsmuth and Springer, 1881, p. 404 (230). Shumard, 1868, p. 365. Miller, 1889, p. 237. Bassler, 1915, p. 372. Bassler, 1938, p. 82. Moore and Laudon, 1943b, p. 104. Webster, 1973, p. 288. Jeffords *in* Moore and Teichert, 1978, p. T933.
CYSTICRINUS Zittel, 1880, p. 380.
Recognized number of named columnal species: 1 Silurian, Niagaran species
Silurian, Niagaran. United States

**Cystocrinus tennesseensis* Roemer, C. F., 1860, p. 56, Pl. 4, figs. 8a-8d. Shumard, 1868, p. 365. Miller, 1889, p. 237, Fig. 279. Bather, 1898, p. 327, Fig. 11. Bather *in* Lankester, 1900, p. 133, Fig. 50, no. 2. Bassler, 1915, p. 373. Bassler and Moodey, 1943, p. 402.
Cystocrinus tennessee-ensis Roemer, 1860. Bigsby, 1868, p. 19.
Silurian,Llandoverian, upper part of Elfhorn Formation. United States, Indiana

Silurian, Niagaran, Beech River Formation; Brownsport Limestone. United States, Tennessee

Cystocrinus tennessee-ensis Roemer, 1860 = *Cystocrinus tennesseensis*

CYSTOIDOSACCUS Faber, 1929. **C. fultoni* Faber, 1929.
Faber, 1929, p. 481. Bassler, 1938, p. 82. Jeffords *in* Moore and Teichert, 1978, p. T937 (Unrecognizable).
Recognized number of named columnal species: 1 Silurian, Llandoverian species
Early Silurian. United States, Indiana

**Cystoidosaccus fultoni* Faber, 1929, p. 482, Pl. 35, figs. 4-5. Bassler and Moodey, 1943, p. 402.
Silurian,Llandoverian, upper part of Elfhorn Formation. United States, Indiana

DACTYLOCRINUS Quenstedt, 1876.
Webster, 1993, p. 148.
Recognized number of named columnal species: 1 Devonian, Famennian species
, FMennian. Kazakhstan

Dactylocrinus? unicus Sisova, 1988, p. 147, Pl. 1, figs. 1a-1b. Webster, 1993, p. 148.
Devonian, Famennian, Sultsiferovii Horizon, Ustkaragandin Layer.Kazakhstan

Dactylocrinus sp. Hecker, 1983, p. 75, Pl. 38, fig. 1. Webster, 1993, p. 148.
Middle Devonian, Chudov Layer. Russia, Main Devonian Field

DASTARICRINUS Stukalina, 1986. **D. digitatus* Stukalina, 1986.
Stukalina, 1986, p. 84. Webster, 1993, p. 148. Stukalina, 1995b, p. 205.
Recognized number of named columnal species: 4 Silurian species, 3 Early Silurian, 1 Late Silurian
Early Silurian. Russia
Early – Late Silurian. Kazakhstan

Dastaricrinus barbarus Stukalina, 1986, p. 84 (*nomen nudum*) no description. Webster, 1993, p. 148. Stukalina, 1995b, p. 205, Fig. 1.
Early Silurian, Zhumak Horizon, Tyulkuli Beds. Kazakhstan

**Dastaricrinus digitatus* Stukalina, 1986, p. 84, Pl. 32, fig. 7. Webster, 1993, p. 148. Stukalina, 1995b, p. 205, Fig. 3.
Late Silurian, upper part of Akkan Horizon. Kazakhstan

Dastaricrinus petaloideus Stukalina, 1986, Pl. 31, nos. 5-6, *nomen nudum*. Stukalina, 1988c, p. 62, Pl. 10, figs. 10-11 (*nomen nudum*) no description. Webster, 1993, p. 148. Stukalina, 1995b, p. 205, Fig. 4. Stukalina, 2000, Pls. 16, fig. 1; 20, figs. 3-6; 21, fig. 1; Fig. 11, no. 4.
Early Silurian, Chakom Horizon, Chyuktin Beds. Russia, Siberian Platform

Dastaricrinus primitivus Stukalina, 1986, p. 84.
Pentagonocyclicus primitivus Schewtschenko, 1964; Milicina, 1973, p. 22, Pl. 2, fig. 4. Stukalina, 1986, p. 84. Webster, 1993, p. 148. Stukalina, 1995b, p. 206, Fig. 2.
Note. Milicina, 1973, identified and described a pluricolumnal as *P. primitivus* considering it to be the same as the specimens named *P. primitivus* Schewtschenko, 1964. Stukalina, 1986, considered the Milicina' specimen to belong to *Dastaricrinus,* not the same species as the one Schewtschenko named *P. primitivus.* Thus Stukalina reassigned the specimen to *Dastaricrinus* attributing authorship to Milicina. Since Stukalina is the first person to use this combination she is the designator of the species. GDW, 2003.
Early Silurian, Elkin Horizon. Russia, East Slope Ural Mountains

DECACRINUS Yeltyschewa, 1957. **D. pennatus* Yeltyschewa, 1957.
Yeltyschewa, 1957, p. 221. Stukalina, 1968b, p. 256. Dubatolova, 1971, p. 44. Schewtschenko, 1971, p. 14. Webster, 1973, p. 288. Webster, 1977, p. 196. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 346.
Decacrinus Yeltyschewa, 1957 (*s. str*). Stukalina, 1986, p. 77. Stukalina, 1988c, p. 28, Fig. 15, no. 3. Webster, 1993, p. 148.
Recognized number of named columnal specieszzz; 12 species, 1 subspecies. 3 Silurian, 2 Llandoverian, 1 Tiverian; 9 Devonian, 1 Lochkovian, 1 Lochkovien – Pragian, 4 Pragian, 1 Pragian – Eifelian, 2 Early Devonian uncertain (+1 subspecies)
Early Silurian. Taadzhistan
Devonian, Pragian. Czech Republic
Early Devonian. Kazakhstan
Early Devonian. Russia, France, Uzbekistan

Decacrinus Yeltyschewa, 1957 (*s. str)* = ***DECACRINUS***

Decacrinus alternatus Schewtschenko, 1971, p. 15, Pl. 4, fig. 9; Fig. 15. Webster, 1977, p. 196. Rakhmonov, 2008, p. 130, Pl. 108, figs. 19-21

Silurian, early Llandoverian, Minkuchar Beds. Uzbekistan, Zeravshan-Gissar Mountain Region

Decacrinus antiquus Yeltyschewa, 1964 = *Jrucrinus antiquus*

Decacrinus bohemicus Prokop and Petr, 1998c, p. 53, Fig. 1, nos. a-b.
Devonian, Pragian, Koneprusy Limestone. Czech Republic, Bohemia

Decacrinus decemcrassus Dubatolova, 1971, p. 48, Pl. 5, figs. 2-9; Fig. 18. Webster, 1977, p. 196. Stukalina, 1978d, p. 73, Unnum. Fig. p. 72. Stukalina, 1982d, p. 140, Unnum. fig. p. 141. Stukalina, 1986, p. 77, Tab. 5. Stukalina, 1988c, Fig. 31.
Webster, 1986, p. 346. Webster, 1988, p. 184. Webster, 1993, p. 149.
Devonian, Pragian (Siegenian) - Eifelian. Russia, Altai Mountains, Ural Mountains, Far East, Salair
Devonian, Pragian-Eifelian. Kazakhstan

Decacrinus ludlowensis Schewtschenko, 1966, p. 148, Pl. 6, figs. 16-18; Fig. 18. Webster, 1973, p. 288.
Late Silurian, Tiverian Stage, Shishkat Horizon. Uzbekistan, Tien Shan Mountains, Zeravshan Mountains

Decacrinus orientalis Yeltyschewa, 1957 = *Paradecacrinus orientalis*

Decacrinus ornatus Stukalina, 1968b, p. 260, Pl. 1, figs. 12-13; Figs. 1, no. 4; 2, no. 5. Levitskiy *et al.*, 1968, p. 72, Fig. 2, no. 5. Webster, 1973, p. 288. Stukalina, 1975, p. 136, Pl. 35, figs. 9-11. Stukalina, 1978c, p. 55, Pl. 13, fig. 3. Stukalina, 1978d, p. 73, Unnum. Fig. p. 72. Stukalina, 1982d, p. 140, Unnum. Fig. p. 141. Stukalina, 1986, p. 77, Pl. 19, figs. 12-13; Fig. 22, no. 4; Tab. 5. Webster, 1986, p. 346. Stukalina, 1988c, p. 64, Pl. 12, figs. 8-10; Figs 12, no. 4; 31. Webster, 1988, p. 184. Stukalina, 1991, p. 191, Pl. 46, figs. 6-8; Fig. 17, no. k. Webster, 1993, p. 149.
Devonian, Pragian (Siegenian). Russia, Ural Mountains, Salair, Central Asia, Altai Mountain
Devonian, Pragian (Siegenian), upper part of Pribalkhash Horizon. Central Kazakhstan,

Decacrinus ovalis Stukalina, 1968b, p. 257, Pl. 1, figs. 7-11; Figs. 1, no. 2; 2, no. 3. Levitskiy *et al.*, 1968, p. 71, Fig. 2, no. 3. Stukalina, 1971, p. 197, Pl. 2, fig. 7. Webster, 1973, p. 288. Stukalina, 1975, p. 136, Pl. 35, figs. 3-5. Webster, 1977, p. 197. Stukalina, 1978c, p. 56, Pl. 13, fig. 2 (typographical error as *Dacacrinus* on plate explanation) . Stukalina, 1978d, p. 73, Unnum. Fig. p. 72. Stukalina, 1982d, p. 140, Unnum. Fig. p. 141. Stukalina, 1986, p. 77, Pl. 19, figs. 3-5; Fig. 22, no. 2; Tab. 5. Webster, 1986, p. 346. Stukalina, 1988c, p. 63, Pl. 12, figs. 1, 2; Figs. 12, no. 2; 31. Webster, 1988, p. 184. Stukalina, 1991, p. 188, Pls. 44, figs. 1-7; 45, fig. 4; Fig. 17, no. z. Webster, 1993, p. 149.
Late Silurian - Devonian, Lochkovian - Pragian, Pribalkhash Horizon, Kokbaital Horizon. Russia, Central Kazakhstan, Pribalkhash, Far East, Ural Mountains,

Altai Mountains, Central Asia
Late Silurian - Devonian, Lochkovian - Pragian, Pribalkhash Horizon, Kokbaital Horizon. Central Kazakhstan, Pribalkhash

**Decacrinus pennatus* Yeltyschewa, 1957, p. 221, Pl. 1, figs. 1-4; Fig. 1. Yeltyschewa, 1964b, p. 80, Pl. 15, fig. 22. Yeltyschewa and Dubatolova, 1967, p. 33, Pl. 5, fig. 19. Moore and Jeffords, 1968, p. 35, Pl. 2, fig. 2. Stukalina, 1968b, p. 259, Pl. 1, figs. 1-6; Figs. 1, no. 3; 2, no. 4. Levitskiy *et al.*, 1968, p. 71, Fig. 2, no. 4. Yeltyschewa and Sisova, 1971, p. 36, Pl. 2, figs. 1-19; Fig. 2. Stukalina, 1971, p. 197, Pl. 2, fig. 12. Webster, 1973, p. 288. Stukalina, 1975, p. 136, Pl. 35, figs. 6-8. Gluchowski, 1977, p. 309, Fig. 8. Webster, 1977, p. 197. Stukalina, 1978c, p. 56, Pl. 13, fig. 1. Stukalina, 1978d, p. 73, Unnum. Fig. p. 72. Stukalina, 1982d, p. 140, Unnum. Fig. p. 141. Stukalina, 1986, p. 77, Pl. 19, figs. 6-11; Fig. 22, no. 3; Tab. 5. Webster, 1986, p. 346. Stukalina, 1988c, p. 63, Pl. 12, figs. 3-7; Figs. 12, no. 3; 31. Webster, 1988, p. 184. Stukalina, 1991, p. 190, Pls. 45, figs. 5-8; 46, figs. 1-5; Fig. 17, no, i. Webster, 1993, p. 149.
Late Silurian - Devonian, Pragian, Pribalkhash Horizon, Layer with *Leptostrophia rotunda*; Karaespin Layer. Russia, Far East, Ural Mountains, Altai Mountains, Central Asia, Salair
Late Silurian - Devonian, Pragian, Pribalkhash Horizon, Layer with *Leptostrophia rotunda*; Karaespin Layer. Central Kazakhstan, Pribalkhash

Decacrinus aff. *pennatus* Yeltyschewa, 1957. Modzalevskaya, 1967, p. 545, Pl. 3, fig. 6. Yeltyschewa, 1969, p. 157, Pl. 25, figs. 6a-6b. Webster, 1973, p. 288. Webster, 1977, p. 197.
Early Devonian, Bolshenever Suite. Russia, Upper Amur Basin

Decacrinus roseliformis Polozhichina, 1980, p. 114, Pl. 23, figs. 23-24. Stukalina, 1986,
p. 77, Tab. 5. Webster, 1986, p. 346. Stukalina, 1988c, Fig. 31. Stukalina, 1991, p. 191, Pl. 45, fig. 9. Webster, 1993, p. 149.
Devonian, Pragian, Pribalkhash Horizon. Central Kazakhstan

Decacrinus sarymatus Schewtschenko, 1971, p. 14, Pl. 4, fig. 10; Fig. 14. Webster, 1977, p. 197.
Silurian, early Llandoverian. Tadzhistan, Zeravshan-Gissar Mountain Region

Decacrinus tenuicrenulatus Moore and Jeffords, 1968, p. 35, Pl. 2, fig. 1. Webster, 1973, p. 289.
Devonian, Lochkovian (Ulsterian), Birdsong Shale. United States, Tennessee

Decacrinus tortuosus Stukalina, 1977c, p. 155, Pl. 31, fig. 9. Webster, 1986, p. 346.
Early Devonian, upper part of Bolshenever Suite. Russia, Far East

Decacrinus variabilis variabilis Dubatolova, 1971, p. 44, Pls. 5, figs. 10-11; 6, figs. 3-8; Figs. 16-17. Webster, 1977, p. 197.
Early Devonian. Russia, Northeastern Salair

Decacrinus variabilis decemangularis Dubatolova, 1971, p. 47, Pl. 6, figs. 3-8; Fig. 17. Webster, 1977, p. 197.
Early Devonian. Russia, Northeastern Salair

Decacrinus sp. Jell, 1999a, p. 108, Fig. 85, nos. A-B.
Devonian, late Lochkovian, Humevale Formation. Australia, Victoria

DECADOCRINUS Wachsmuth and Springer, 1880.
Devonian, Givetian - Pennsylvanian. United States

Decadocrinus? sp. no. 1 Fraunfelter, 1974, p. 17, Pl. 2, fig. 13. Webster, 1986, p. 346.
Devonian, Givetian, Lingle Limestone. United States, Illinois

Decadocrinus sp. Le Menn, 1985, p. 99, Pl. 23, fig. 6. Webster, 1988, p. 184.
Devonian, Givetian, Kerbelec Formation, Lanvoy Formation, Kergarvan Formation. France, Armorican Massif

DECALOBATOCRINUS Sisova, 1991. **.Decalobatocrinus laciniatus* Sisova, 1991.
Sisova, 1991, p. 155.
Recognized number of named columnal species: 1 Mississippian, late Tournaisian species
Mississippian, late Tournaisian. Southern Kazakhstan

**Decalobatocrinus laciniatus* Sisova, 1991, p. 156, Pl. 2, figs. 6-8.
Mississippian, late Tournaisian. Southern Kazakhstan

DECAPENTACRINUS Sisova, 1977. **D. inceptus* Sisova, 1977.
Sisova, 1977, p. 162. Webster, 1986, p. 346.
Recognized number of named columnal species: 1Mississippian, late Visean – Serpukhovian species
Mississippian, late Viséan - Serpukhovian. Central Kazakhstan

**Decapentacrinus inceptus* Sisova, 1977, p. 162, Pl. 32, figs. 6-11; Fig. 25. Webster, 1986, p. 347.
Mississippian, late Viséan – Serpukhovian (early Namurian). Central Kazakhstan

DECAPETALUS Donovan, 1995. **D. beggi* Donovan, 1995.
Donovan, 1995b, p. 137.
Recognized number of named columnal species: 2 Ordovician, Sandbian species
Ordovician, Sandbian (Caradocian). United Kingdom

Decapetalus balclatchiensis Donovan, 1995b, p. 138, Pl. 18, figs. 7, 15.
Ordovician, Sandbian. United Kingdom

**Decapetalus beggi* Donovan, 1995b, p. 137, Pl. 21, figs. 1-11.
Ordovician, Sandbian (Caradocian), Harnage Shale. United Kingdom

DECEMICRINUS Stukalina, 1980. *D. decilobatus* Stukalina, 1980.

Stukalina, 1980d, p. 233. Stukalina, 1986, p. 65. Webster, 1986, p. 347. Webster, 1993, p. 149.
Recognized number of named columnal species: ! Ordovician Katian species
Ordovician, Katian. Kazakhstan

**Decemicrinus decilobatus* Stukalina, 1980d, p. 233, Pl. 2, fig. 7; Fig. 3, no. 5. Webster, 1986, p. 347.
Ordovician, Katian, Dulankaren Horizon: Central Kazakhstan

Dendritic radix Clement, Gibson, and Broadhead, 1987, p. 189, Fig. 1, no. A. Webster, 1993, p. 150.
Devonian, Lochkovian, Ross Formation. United States, Tennessee

Dendritic ("tree stump") holdfast Brett, 1985b, p. 827, Fig. 6, no. 4. Webster, 1988, p. 184.
Silurian, Gasport Limestone. United States, New York

Dendrocrinid sp. nov. Dononvan, 1989 = *Dendrocrinus collapsus*

Dendrocrinoide sp. Termier, G. and Termier, H., 1950, p. 200, Pl. 208, figs. 16-21. Webster, 1973, p. 327.
Mississippian, Viséan – Serpukhovian (Namurian) transition. Algeria

Dendrocrinoidea indéterminé Termier, G. and Termier, H., 1950, p. 200, Pl. 208, figs. 23-24. Webster, 1973, p. 327.
Mississippian, Viséan – Serpukhovian (Namurian) transition. Morocco

Dendrocrinoidea indéterminé Termier, G. and Termier, H., 1950, p. 214, Pl. 215, figs. 17-18. Webster, 1973, p. 327.
Mississippian, late Viséan. Algeria

Dendrocrinoidea indéterminé Termier, G. and Termier, H.,1950, p. 216, Pl. 216, figs. 7-8. Webster, 1973, p. 327.
Carboniferous, Namurian. Algeria

Dendrocrinoidea indéterminé Termier, G. and Termier, H., 1950, p. 230, Pl. 223, figs. 2-3. Webster, 1973, p. 327.
Mississippian, late Viséan. Algeria

DENDROCRINUS Hall, 1852.
Webster, 1988, p. 184. Donovan, 1995b, p. 115.
Recognized number of named columnal species: 7 species, 5 Ordovician. Katian; 2 Silurian, Wenlockian
Ordovician, Katian; - Silurian, Silurian-Devonian transition. United States
Ordovician, Katian. Ireland; United Kingdom, Scotland

Dendrocrinus alternatus Titus, 1979, p. 112, Figs. 7, no. 11; 8, no. 9. Webster, 1986, p. 347.

Ordovician, Katian (early Trentonian). United States, New York

Dendrocrinus casei Meek, 1871. Donovan, Kallmeyer, and Veltkamp, 1995, p. 310, Figs. 2, nos. A-D; 3, nos. E, H-L.
Ordovician, Katian (Richmondian), basal part of Liberty Formation. United States, Indiana

Dendrocrinus celsus Ringueberg, 1888. Brett, 1981b, p. 344, Fig. 1, no. F. Webster, 1988, p. 184.
Silurian, Wenlockian, Rochester Shale. United States, New York

Dendrocrinus collapsus Donovan, 1992. Donovan, 1995, p. 116, Pl. 14, figs. 3-4.
Dendrocrinid sp. nov. Dononvan, 1989b, fig. 1.
Ordovician, Katian (Rawtheyan), Starfish Bed. United Kingdom, Scotland

Dendrocrinus granditubus Ramsbottom, 1961. Donovan, 1986d, p. 34, Fig. 13, no. I. Webster, 1993, p. 149.
Ordovician, Katian (Ashgillian), Ladyburn Starfish Bed. United Kingdom, Scotland

**Dendrocrinus longidactylus* Hall, 1852. Brett, 1981b, p. 344, Fig. 1, no. G. Webster, 1988, p. 184.
Silurian, Wenlockian, Rochester Shale. United States, New York

Dendrocrinus rugocyathus Ramsbottom, 1961. Donovan, 1986d, p. 34, Fig. 14, nos. A-B. Webster, 1993, p. 149.
Ordovician, Katian (Ashgillian), Slade Beds. United Kingdom

cf. *Dendrocrinus rugocyathus* Ramsbottom, 1961. Donovan, 1986d, p. 34, Pl. 5, fig. 4; Fig. 20, no. H. Webster, 1993, p. 149.
Ordovician, Katian (Ashgillian), Robeston Wathen Limestone. United Kingdom

Dendrocrinus sp. Donovan, 1986d, p. 36, Fig. 14, nos. C-D. Webster, 1993, p. 149.
Ordovician, Katian (Ashgillian), Killey Bridge Formation. Ireland

?Dendrocrinus sp. Bloxam *in* Owen *et al.,* 1971 = **Celtocrinus ubaghsi*

DENTIFEROCRINUS Stukalina, 1968. **Pentagonopentagonalis dentiferus* Yeltsychewa, 1955.
Stukalina, 1968c, p. 85. Stukalina, 1970b, p. 76. Webster, 1973, p. 289. Webster, 1977, p. 197. Jeffords *in* Moore and Teichert, 1978, p. T933. Hynda, 1986, p. 91. Stukalina, 1986, p. 75. Webster, 1986, p. 347. Webster, 1988, p. 185. Webster, 1993, p. 149.
Note: Stukalina, 1979a, considered *Cyclopagoda* Moore and Jeffords, Jan. 26, 1968, and *Dentiferocrinus* Stukalina, Mar. 5, 1968 to be synonymous. If this is correct then *Dentiferocrinus* is a junior synonym of *Cyclopagoda* by priority date of publication.
Recognized number of named columnal species: 19 species. 12 Ordovician, 11 Katian, 1 Sandbian; 2 Ordovician Darriwilian – Silurian, Llandoverian; 5 Silurian,

4 Llandoverian, 1 Llandoverian - Wenlockian
Ordovician, Darriwilian – Katian. North America, Uzbekistan, Tadzhikstan
Ordovician, Katian. Kazakhstan
Early Silurian. Russia

Dentiferocrinus alternata (Moore and Jeffords, 1968). Stukalina, 1979a, p. 148. Webster, 1986, p. 347.
Ordovician, Katian (Cincinnatian). United States, Ohio

Dentiferocrinus coronoideus Yeltyschewa, 1975, p. 132, Pl. 1, figs. 6-8. Milicina, 1987, p. 17, Pl. 7, fig. 6. Webster, 1993, p. 150.
Ordovician, Katian (Ashgillian), Molodov Horizon; Rassokhin Horizon, Palnikshorskie Stratum. Russia, Northern Urals

Dentiferocrinus costata (Moore and Jeffords, 1968). Stukalina, 1979a, p. 148. Webster, 1986, p. 347. See **note** under genus.
Ordovician, Katian (Cincinnatian). United States, Ohio

Dentiferocrinus dauritschensis (Schewtschenko, 1964). Stukalina, 1978a, p. 163, Pl. 35, figs. 19-21. Stukalina, 1979a, p. 148. Stukalina, 1986, p. 75, Pl. 18, figs. 2-5. Webster, 1986, p. 347. Webster, 1993, p. 150. Rakhmonov, 2008, p. 129, Pl. 108, figs. 15-18.
Pentagonopentagonalis dauritschensis Schewtschenko, 1964, p. 14, Pls. 2, fig. 1; 3, fig. 2. Schewtschenko, 1968a, p. 283, Pl. 66, fig. 7; Fig. 35. Schewtschenko, 1971, p. 19, Pl. 4, figs. 13, 18; Fig. 21. Webster, 1973, p. 312. Webster, 1977, p. 215. Stukalina, 1978a, p. 163. Webster, 1986, p. 347.
Pentagonopentagonalis dividuus Schewtschenko, 1971, p. 18, Pl. 4, figs. 16-17; Fig. 20. Webster, 1977, p. 197. Stukalina, 1978a, p. 163. Webster, 1986, p. 347.
Ordovician, Darriwilian; - Early Silurian, late Llandoverian, Minkuchar Layer. Uzbekistan, Tadzhikstan, Southern Tien Shan, Zeravshan-Gissar Mountain Region

**Dentiferocrinus dentiferus* (Yeltyschewa, 1955). Stukalina, 1968c, p. 85. Stukalina, 1970b, p. 76. Webster, 1973, p. 289. Webster, 1977, p. 197. Tesakov *et al.*, 1980, p. 146, Pl. 15, fig. 5; p. 149, Pl. 28, fig. 3. Stukalina, 1982b, p. 156, Pl. 24, fig. 1; Fig. 28, nos. l-5. Milicina, 1985, p. 53, Pl. I, Figs. 1-5. Stukalina, 1986, p. 75, Pl. 18, fig. 1. Webster, 1986, p. 348. Stukalina, 1988c, p. 62, Pl. 10, figs. 12-13. Webster, 1988, p. 185. Webster, 1993, p. 150. Stukalina, 2000, p. 52, Pl. 19, figs. 2, 5, 7-8; Fig. 11, no. 2 (non Pls. 10, fig. 3 as given p. 52).
Pentagonopentagonalis dentiferus Yeltyschewa, 1955a, p. 45, Pl. 54, figs. 1-2. Yeltyschewa, 1960, p. 16, Pl. 4, figs. 1-5. Yeltyschewa, 1964b, p. 75a, Pl. 15, fig. 19. Stukalina, 1968c, p. 85. Webster, 1973, p. 289.
Silurian, Llandoverian, Moierokan and Khaastyr Suites; Lower part of Persei Suite. Russia, Siberian Platform, Nova Zemlya

Dentiferocrinus dividuus (Yeltyschewa, 1955). Stukalina, 1968c, p. 85. Stukalina, 1970b,

p. 76. Webster, 1973, p. 289. Webster, 1977, p. 197. Stukalina, 1979a, p. 149, Pl. 31, figs. 1-11; Fig. 32, no. b. Stukalina, 1982c, p. 179, Fig. 11, no. 1. Stukalina, 1984, p. 101, Pl. 37, figs. 11-14. Hynda, 1986, p. 92, Pl. 14, figs. 11-12. Stukalina, 1986, p. 75, Pl. 18, fig. 6; Fig. 10, no. 4. Webster, 1986, p. 348. Webster, 1988, p. 185. Webster, 1993, p. 150. Stukalina, 2000, p. 106, Pl. 19, fig. 1.

Pentagonopentagonalis dividuus Yeltyschewa, 1955a, p. 44, Pl. 37, figs. 1-2. Yeltyschewa, 1960, p. 15, Pl. 3, figs. 10-11. Stukalina, 1968c, p. 85. Webster, 1973, p. 289.

Ordovician, Darriwilian – Sandbian (Caradocian), - Silurian, Llandoverian, Pishchan Suite; Mangazeja Horizon, upper part of Baksan Subhorizon; lower part of Dolbor Horizon. Russia, Southwestern Eastern European Platform, Tunguska , Siberian Platform

Dentiferocrinus cf. *dividuus* (Yeltyschewa, 1955). Milicina, 1987, p. 40, Pl. 7, fig. 7. Webster, 1993, p. 150.

Ordovician, Katian (Ashgillian), Rassokhin Horizon, Palnikshor Stratum. Russia, Northern Urals

Dentiferocrinus hondelensis Yeltyschewa, 1982, p. 173, Pl. 1, figs. 7-11. Webster, 1988, p. 185.

Silurian, Llandoverian, Alavelsy Suite, Alash Layer. Russia, Tuva

Dentiferocrinus kozhimensis Milicina, 1987, p. 90, Pl. 7, figs. 1-4. Webster, 1993, p. 150.

Ordovician, Katian (Ashgillian), Rassokhin Horizon, Palnikshor Stratum. Russia, Northern Urals

Dentiferocrinus miscellus Yeltyschewa, 1975, p. 133, Pl. 1, figs. 2-3. Webster, 1986, p. 348.

Ordovician, Katian, Molodov Horizon. Russia, Podolia

Dentiferocrinus pirguensis Yeltsychewa, 1979, p. 98, Pl. 2, fig. 12. Webster, 1986, p. 348.

Ordovician, Katian, Pirgu Horizon. Estonia

Dentiferocrinus proximus (Yeltyschewa and Stukalina, 1963). Stukalina, 1968c, p. 85. Stukalina, 1970b, p. 76. Webster, 1973, p. 289. Stukalina, 1977, p. 197.

Pentagonopentagonalis proximus Yeltyschewa and Stukalina, 1963, p. 39, Pls. 3, figs. 1-7; 4, figs. 1-2; Fig.1, nos. a-b.

Ordovician, Sandbian. Russia, Vaigach

Dentiferocrinus spinosus Stukalina *in* Zania, 1972, p. 288, Pl. 60, figs. 5-6. Webster, 1977, p. 198.

Ordovician, Katian (late Caradocian), basal part of Taldyboy Suite. Eastern Kazakhstan, Taldyboy River

Dentiferocrinus taldyboicus Stukalina *in* Zania, 1972, p. 289, Pl. 60, figs. 9-10. Webster, 1977, p. 198.
Ordovician, Katian (late Caradocian), upper part of Taldyboy Suite. Eastern Kazakhstan, Taldyboy River

Dentiferocrinus tenuis (Yeltyschewa, 1955). Stukalina, 1979a, p. 149. Webster, 1986, p. 348. Kurilenko *in* Kurilenko et al., 2002, p. 96, Pl. 33, figs. 8-11.
Cyclocyclicus tenuis Yeltyschewa, 1955a, p. 46, Pl. 54, fig. 6. Yeltyschewa, 1960, p. 23, Pl. 6, figs. 1-4. Skoropisceva, 1969, p. 47. Webster, 1973, p. 286. Webster, 1977, p. 196. Webster, 1986, p. 348.
Silurian, Llandoverian – Wenlockian, Omutninsky Suite. Russia, Siberian Platform

Dentiferocrinus tenuitas (Yeltyschewa and Stukalina, 1963). Stukalina, 1979a, p. 149. Webster, 1986, p. 348.
Pentagonocyclicus tenuitas Yeltyschewa and Stukalina, 1963, p. 51, Pl. 4, figs. 1b, 3-4; Fig. 18. Webster, 1973, p. 310. Webster, 1986, p. 348.
Silurian, Llandoverian. Russia, Taymyr, Vaigach

Dentiferocrinus tuberculatus Stukalina, 1982b, p. 157, Pl. 24, figs. 2-6; Fig. 28, nos. n-o. Webster, 1988, p. 185. Stukalina, 2000, p. 54, Pl. 19, figs. 3-4, 6, 9; Fig. 11, no. 3.
Silurian, Llandoverian, Khaastyr Horizon, Ugiyuk Suite. Russia, Siberian Platform

Dentiferocrinus vermiculatus Yeltyschewa, 1979, p. 98, Pl. 1, figs. 14-15. Webster, 1986, p. 348.
Ordovician, Katian, Nabala Horizon. Latvia

Dentiferocrinus visendus Yeltyschewa, 1979, p. 97, Pl. 1, fig. 17. Webster, 1986, p. 348.
Ordovician, Katian, Nabala Horizon. Latvia

Dentiferocrinus wychmaensis Yeltyschewa, 1979, p. 99, Pl. 1, fig. 3. Webster, 1986, p. 348.
Ordovician, Katian, Nabala Horizon. Latvia

Desgl. Säulenstück Geinitz, 1867, Pl. 4, fig. 23.
Pennsylvanian. Nebraska

DESIDIAMPHIDIA Moore and Jeffords, 1968. **D. frondea* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 70. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1988, p. 185.
Recognized number of named columnal species: 2 Devonian, Givetian species
Devonian, Givetian (Erian). United States, France

**Desidiamphidia frondea* Moore and Jeffords, 1968, p. 70, Pl. 20, figs. 9-10. Webster, 1973, p. 289.
Devonian, Givetian (Erian), Wanakah Shale. United States, New York

Desidiamphidia porsguenensis Le Menn, 1985, p. 161, Pl. 35, figs. 9, 11, 13. Webster, 1988, p. 185.
Devonian, Givetian, Kergarvan Formation. France, Armorican Massif

DESMIDOCRINUS Angelin, 1878.
Webster, 1993, p. 150.
Desmidocrinus (sensu lato) Stukalina, 1986, p. 84. Webster, 1993, p. 150.
Recognized number of named columnal species: 5 species. 2 Ordovician, 1 Katian, 1 Hirnantian; 1 Silurian, Wenlockian - Ludlovian; 1 Silurian Ludlovian – Early Devonian; 1 Devonian, Emsian - Pragian
Ordovician, Katian. Argentina
Ordovician, Hirnantian. Estonia
Early Silurian, Early Devonian. Russia, Salair, East slope Urals

Desmidocrinus (sensu lato). Stukalina, 1986 = ***DESMIDOCRINUS***

Desmidocrinus(*?) alternus* Milicina, 2000a, p. 57, Pl. 10, fig. 6. Milicina, 2000b, p. 62, Pl.
10, figs. 6a-6b.
Silurian, early Wenlockian, “Fragmental” limestone (Pavdinskii Horizon; late Wenlockian, Elkino Horizon; Ludlovian, Isovskoi Horizon; Early Devonian, Sarainaya Horizon. Russia, east slope Ural Mountains

Desmidocrinus improcerus Rakhmonov and Stukalina, 2000, p. 3, Pl. 1, figs. 1-2 (nomen nudum, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

Desmidocrinus macrodactylus Angelin, 1878. Dubatolova, 1968, p. 144, Pl. 15, fig. 1; Fig. 2. Milicina, 1970, p. 101, Pl. 28, figs. 5-6; Fig. 10 fig. 5 (incorrectly labeled *Pentagonocyclicus* cf. *ligatus* on plate explanation p. 189); Webster, 1973, p. 289. Milicina, 1977a, p. 140, Pl. 56, fig. 8. Webster, 1977, p. 198. Webster, 1986,
p. 348.
Silurian, Ludlovian-Early Devonian. Russia, Ural Mountains

Desmidocrinus pjriensis Yeltyschewa, 1979, p. 96, Pl. 2, fig. 15. Webster, 1986, p. 349.
Ordovician, Hirnantian, Porjuni Horizon. Estonia

Desmidocrinus salagastianus Rusconi, 1951, p. 256 (*nomen nudum*). Rusconi, 1952, p. 36, Pl. 1, fig. 3. Sieverts-Doreck, 1957b, p. 154. Webster, 1973, p. 289.
Ordovician or younger (Sieverts-Doreck, 1957b), Katian, Salagastense Horizon. Argentina

Desmidocrinus turgidus Yeltyschewa, 1975 = *Constrictocrinus turgidus*

Desmiocrinus improcerus Rakhmonov and Stukalina, 2000, p. 3, Pl. 1, figs. 1-2 (nomen

nudum, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

Detail of the central zone of a columnal Termier, H. and Termier, G., 1974, p. 50, Pl. 8, fig. 3. Webster, 1986, p. 398.
Devonian, early Emsian. Morocco

Devil's Dingle morphology 1 Weltkamp and Donovan, `965. = Pentagonal columnal sp. Gpns; vp;Imns
Devil's Dingle Morphology 2 Veltkamp and Donovan, 1984 = Circular Columnal sp.

DIAMENOCRINUS Oehlert, 1891.
Recognized number of named columnal species: 4 Devonian species, 1 Lochkovian – Pragian, 1 Pragian, 1 Pragian – Emsian, 1 Emsian, 1 Devonian uncertain
Early Devonian.France, Spain

Diamenocrinus floreus Le Menn *in* Le Menn *et al.*, 1976, p. 48, Pl. 9, figs. 5-6. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 306. Le Menn, 1985, p. 35, Pls. 1, fig. 10; 2, figs. 4-10. Webster, 1986, p. 349. Le Menn, 1987b, p. 817, Pl. 1, figs. 13-14. Webster, 1988, p. 185. Webster, 1993, p. 150.
Devonian, Emsian, Faou Graywacke Formation, Reun ar C'Hrank Formation; Mariposas Formation. France, Armorican Massif; Spain

Diamenocrinus aff. *floreus* Le Menn *in* Le Menn *et al.*, 1976. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 306. Webster, 1986, p. 349.
Early Devonian, Montguyon Formation. France, Amorican Massif

Diamenocrinus jouani Oehlert, 1891. Ubaghs *in* Moore and Teichert, 1978, p. T93, Fig. 62, no. 2. Webster, 1986, p. 349.
Devonian. France

Diamenocrinus primaevus Le Menn, 1970a, p. 15, Pl. 4, figs. 1-3. Le Menn, 1970b, p. 367, Fig. 3. Le Menn, 1987b, p. 817, Pl. 1, figs. 6, 9, 12. Webster, 1993, p. 150.
Devonian, Pragian (late Siegenian) - early Emsian, Le Faou Formation. France

Diamenocrinus stellatus Jaekel, 1895. Le Menn, 1987b, p. 817, Pl. 1, fig. 5. Webster, 1993, p. 150.
Devonian, Lochkovian (late Gedinnian) – Pragian (middle Siegenian), Saint-Cenere Formation. France

Diamenocrinus sp. A Le Menn, 1985, p. 36, Pl. 2, figs. 15-17. Webster, 1988, p. 185.
Devonian, early Gedinnian, Landevennec Formation. France, Armorican Massif

Diamenocrinus sp. B Le Menn, 1985, p. 37, Pl. 2, figs. 11-12. Webster, 1988, p. 185.
Devonian, early Emsian. France, Armorican Massif

Diamenocrinus sp. B Le Menn, 1987b, p. 817, Pl. 1, fig. 10. Webster, 1993, p. 150.
Devonian, early Emsian. Germany

Cf. *Diamenocrinus* sp. Termier, G. and Termier, H., 1950, p. 222, Pl. 219, fig. 4. Webster, 1973, p. 289.
Devonian, Emsian. Morocco

DIANTHICOELOMA Moore and Jeffords, 1968. **D. insuetum* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 50. Webster, 1973, p. 289. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 2 Ordovician species, 1 Floian – Darriwilian, 1 Katian
Ordovician, Katian. United States
Ordovician, Floian – Darriwilian. Russia, Estonia, Yugoslavia

**Dianthicoeloma insuetum* Moore and Jeffords, 1968, p. 50, Pl. 7, figs. 1-3. Webster, 1973, p. 289.
Ordovician, Katian (Cincinnatian), Blanchester Formation. United States, Ohio

Dianthicoeloma monile (Eichwald, 1860). Moore and Jeffords, 1968, p. 51, Pl. 7, fig. 8. Webster, 1973, p. 289.
Haplocrinus monile Eichwald, 1860, p. 580, Pl. 31, figs. 4-9, 17-20, 29a-29b (non fig. 29c as given p. 580). Moore and Jeffords, 1968, p. 51. Webster, 1973, p. 289.
Pentagonocyclicus monile (Eichwald, 1860). Yeltyschewa, 1960, p. 18, Pl. 1, figs. 5-6. Yeltyschewa, 1964a, p. 70, Pls. 1, figs. 1-7; 4, figs. 1-13. Yeltyschewa, 1964b, p. 75, Pl. 15, figs. 9-10. Moore and Jeffords, 1968, p. 51. Webster, 1973, p. 289. Hynda, 1980, p. 67, Pl. 1, fig. 5. Hynda, 1986, p. 106, Pl. 17, fig. 7. Webster, 1986, p. 374. Webster, 1993, p. 179. Rozhnov, 1994b, p. 72, Pl. 6, fig. 3. Rozhnov, 1995, p. 86, Pl. 6, fig. 3. Rozhnov, 2002, p. S629, Fig. 72, nos. a-h. (diagramatic)
Ordovician, Floian – Darriwilian (Arenigian – Llandeilian), Volkhov Horizon; Ustukut Stage. Russia, Eastern European Platform, Volyn, Taymyr Peninsula; Estonia; Northwestern Yugoslavia

Dianthicoeloma pentaporus (Eichwald, 1840) = *Babanicrinus pentaporus*

Dianthicoeloma pentaporus var. *tuberculata* (Yeltyschewa, 1964) = *Babanicrinus pentaporus tuberculata*

DICHOCRINUS Münster, 1839.
Recognized number of named columnal species: 1 Permian, Artinskian species
Permian, Artinskian. Australia, New South Wales

?Dichocrinus australis Willink, 1980. Shi and McLoughlin, 1997, p. 46, Pl. 5, fig. 4.
Permian, Artinskian, Wandrawandian Siltstone. Australia, New South Wales

DICIRROCRINUS Schmidt, 1934.

Recognized number of named columnal species: 5 Devonian species, 1 subspecies, 1 Pragian, 3 Emsian (+1 subspecies), 1 Emsian - Eifelian
Devonian, Pragian - Eifelian. Germany

Dicirrocrinus comtus Schmidt, 1934. Bartels and Brassel, 1990, p. 174, Fig. 22. Bartels, Briggs, and Brassel, 1998, p. 41, Fig. 26.
Devonian, early Emsian, Hunsrück Slate. Germany, Bundenbach

Dicirrocrinus(?) dicirrocrinus (Ehrenberg, 1930). Schmidt, 1942, p. 140, Pl. 15, fig. 3. Webster, 1973, p. 290. Breuer *et al.*, 1992, p. 62, Pl. 10, fig. 4.
Herpetocrinus (Myelodactylus) dicirrocrinus Ehrenberg, 1930a, p. 263, Pl. 15, fig. 5. Bassler and Moodey, 1943, p. 568. Schmidt, 1942, p. 140. Webster, 1973, p. 290.
Myelodactylus dicirrocrinus (Ehrenberg, 1930). Bassler and Moodey, 1943, p. 568.
Devonian, Emsian, upper part of Coblenzian Beds. Germany
Devonian, Eifelian. Germany

Dicirrocrinus(?) duplex a Schmidt, 1942, p. 141, Pl. 17, fig. 3. Webster, 1973, p. 290.
Devonian, Emsian (Coblenzian), lower part of Coblenzian Beds. Germany

Dicirrocrinus(?) duplex b Schmidt, 1942, p. 142, Pl. 17, fig. 4. Webster, 1973, p. 290. Devonian, Emsian (Coblenzian), lower part of Coblenzian Beds. Germany

Dicirrocrinus(?) margaritatus Schmidt, 1942, p. 142, Pl. 20, fig. 7. Webster, 1973, p. 290.
Devonian, Pragian (Siegenian), Rauhflaser Beds. Germany

Dicirrocrinus ramulosus Schmidt, 1942, p. 143, Fig. 37. Webster, 1973, p. 290. Ubaghs *in* Moore and Teichert, 1978, p. T87, Fig. 62, no. 4. Webster, 1986, p. 349.
Devonian, Emsian (Coblenzian), upper part of Coblenzian Beds. Germany

Dicirrocrinus sp. indet. Kutscher, 1971, p. 115, Pl. 1. Webster, 1977, p. 198.
Early Devonian, Emsian, Hunsrückschiefer. Germany

DIEROCALIPTER Moore and Jeffords, 1968. **D. doter* Moore and Jeffords, 1968. Moore and Jeffords, 1968, p. 73. Webster, 1973, p. 290. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 2 Mississippian species, 1 Tournaisian, 1 Viséan
Mississippian, Viséan (Osagean). United States
Mississippian, Tournaisian.˚Kazakhstan

**Dierocalipter doter* Moore and Jeffords, 1968, p. 73, Pl. 21, fig. 10. Webster, 1973, p. 290. Ubaghs *in* Moore and Teichert, 1978, p. T77, Fig. 55, no. 3. Webster, 1986, p. 349.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

Dierocalipter surculosus Sisova, 1991, p. 163, Pl. 2, figs. 10-11.
Mississippian, late Tournaisian. Southern Kazakhstan

Digitate holdfast disc Brett, 1991, p. 232, Fig. 13, nos. L-M.
Silurian, no other stratigraphic information

DIGITICRINUS Stukalina, 1980. **D. digitatus* Stukalina, 1980.
Stukalina, 1980d, p. 226. Stukalina, 1986, p. 56. Webster, 1986, p. 349. Webster, 1993, p. 151.
Recognized number of named columnal species: 5 Orddoviciaan species, 1 Darriwilian, 21 Sandbian, 3 Katian
Ordovician, Darriwilian, Katian. Kazakhstan
Ordovician, Sandbian. Thailand

Digiticrinus baculiformis Stukalina, 1980d, p. 228, Pl. 1, fig. 18; Fig. 2, no. 4. Stukalina, 1986, p. 56, Pl. 8, fig. 12. Webster, 1986, p. 349. Stukalina, 1988c, p. 58, Pl. 4, fig. 22. Webster, 1993, p. 151.
Ordovician, Katian, Dulankaren Horizon. Southern Kazakhstan

Digiticrinus bellus Stukalina, 1980d, p. 227, Pl. 1, figs. 12-14; Fig. 2, no. 2. Stukalina, 1986, p. 56, Pl. 8, figs. 13-17. Webster, 1986, p. 350. Stukalina, 1988c, p. 58, Pl. 4, fig. 23. Webster, 1993, p. 151.
Ordovician, Katian, *Holorhyunchus giganteus* Layer, *Carenipora libera* bearing beds. Eastern Kazakhstan

Digiticrinus sp. cf. *D. bellus* Stukalina, 1980. Wolfart, 2001, p. 221, Pl. 13, figs. 10-11; Fig. 12, no. c.
Ordovician, Sandbian, Thong Pha Phum Silt-/Mudstone Formation. Thailand

**Digiticrinus digitus* Stukalina, 1980d, p. 226, Pl. 1, figs. 10-11; Fig. 2, no. 1. Stukalina, 1986, p. 56, Pl. 8, figs. 10-11. Webster, 1986, p. 350. Webster, 1993, p. 151.
Ordovician, Katian, Dulankaren Horizon, Nadakkol Layer. Southern Kazakhstan

Digiticrinus levis Stukalina, 1980d, p. 228, Pl. 1, figs. 16-17; Fig. 2, no. 3. Stukalina, 1986, p. 56, Pl. 8, fig. 9. Webster, 1986, p. 350. Webster, 1993, p. 151.
Ordovician, Darriwilian, Erkebidaik Horizon. Northern Kazakhstan

DILANTERIS Moore and Jeffords, 1968. **D. trestes* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 72. Webster, 1973, p. 290. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 1 Mississippian, Viséan species
Mississippian, Viséan (Osagean). United States

**Dilanteris trestes* Moore and Jeffords, 1968, p. 73, Pl. 21, fig. 13. Webster, 1973, p. 290.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

DIMEROCRINITES Phillips *in* Murchison, 1839.

EXACOSIODISCUS Moore and Jeffords, 1968. Prokop and Slámová, 2009, p. 39.
Recognized number of named columnal species: 2 Devonian species, 1 Lochkovian, 1 Emsian
Silurian - Middle Devonian. Europe; United States
Devonian, Lochkovian. France
Devonian, Emsian. Czech Repujblic

Dimerocrinites lanveocensis Le Menn, 1985. Le Menn, 1987b, p. 817, Pl. 1, fig. 17; Fig. 7. Webster, 1993, p. 151.
Devonian, Lochkovian (Gedinnian), Gahard Formation. France

Dimerocrinites lemenni Prokop and Slámová, 2009, p. 40, Pl. 2, figs. A-D; Fig. 2, nos. A-C.
Devonian, early Emsian, Zlíchov Limestone. Czech Republic

Dimerocrinites sp. B Le Menn, 1985, p. 51, Pl. 7, figs. 6-11. Webster, 1988, p. 185.
Devonian, Gedinnian, Haye du Puits Formation, Gahard Formation. France, Armorican Massif

Dimerocrinites sp. B Le Menn, 1987b, p. 817, Pl. 1, fig. 18; Fig. 7. Webster, 1993, p. 151.
Devonian, Lochkovian (Gedinnian), Gahard Formation. France

Dimerocrinites spp.
Brett, 1984, p. 96, Fig. 4, nos. B, D. Webster, 1988, p. 186.
Silurian, Rochester Shale. United States, New York
Brett, 1985b, p. 827, Fig. 6, nos. 2-3, 5. Webster, 1988, p. 186.
Silurian, Gasport Limestone. United States, New York
Seilacher and MacClintock, 2005, p. 230, Fig. 6, nos. A-E.
Silurian, Waldron Shale. United states, Tennessee

Dimerocrinitid stolons spp.
Brett, 1981b, p. 348, Fig. 4, no. B. Webster, 1988, p. 186.
Silurian, Rochester Shale. United States, New York
Brett, 1981b, p. 348, Fig. 4, no. C. Webster, 1988, p. 186.
Silurian, Rochester Shale. United States, New York
Brett, 1985b, p. 828, Fig. 7, no. D. Webster, 1988, p. 186.
Silurian, Gasport Limestone. United States, New York
Brett, 1984, p. 96, Fig. 4, no. C. Webster, 1988, p. 186.
Silurian, Rochester Shale. United States, New York

DIPENTAGONOCRINUS Arendt, 2002. **Dipentagonocrinus magnocarinatus* Arendt, 2002 (OD).
Arendt, 2002, p. 143.
Recognized number of named columnal species: 1 Mississippian, Serpukhovian species
Mississippian, Serpukhovian, Steshev Horizon. Russia, Moscow Basin

**Dipentagonocrinus magnocarinatus* Arendt, 2002, p. 144, Pl. 12, fig. 10; Fig. 5, nos m-n.
Mississippian, lower part of Serpukhovian, lower part of Steshev Horizon. Russia,

Diplobathra indéterminés Termier, G. and Termier, H., 1950, p. 230, Pl. 223, figs. 4-7. Webster, 1973, p. 328.
Carboniferous, late Viséan. Algeria

Diplobathra indéterminés Termier, G. and Termier, H., 1950, p. 230, Pl. 223, figs. 8-9. Webster, 1973, p. 328.
Carboniferous, Namurian. Algeria

Diplobathra indéterminés Termier, G. and Termier, H., 1950, p. 232, Pl. 224, fig. 35. Webster, 1973, p. 328.
Devonian, Siegenian. Morocco

Diplobathra indéterminés Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 46-47. Webster, 1973, p. 328.
Carboniferous, late Viséan. Morocco

Diplobathra indéterminés Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 50-51. Webster, 1973, p. 328.
Devonian, Coblenzian. Morocco

Diplobathrid(?) indet. Donovan, Paul, and Lewis, 1996, p. 218, P37, Fig. 6.
Ordovician, Katian (late Ashgillian), Lady Burn Starfish Bed. Scotland

Disarticulated crinoids Havlicek *in* Chlupac *et al.*, 1998, p. 75, Pl. 19, fig. 12.
Ordovician, Katian (late Caradocian), Bohdalec Formation. Czech Republic, Prague Basin

Disarticulated pluricolumnals Donovan and Harper, 2003, p. 88, Fig. 2, no. J.
Early Silurian, upper Llandovery, Finny School Member, Kilbride Formation. Ireland

Discoid attachments Franzén, 1977, p. 221, Figs. 2, no. 1; 3, nos. A-G. Webster, 1986, p. 398.
Silurian, Llandovery-Wenlockian. Sweden. Isle of Gotland

Discoid holdfast Kammer, 1985a, p. 99, Fig. l0, no. C. Webster, 1988, p. 186.
Mississippian, Viséan (Osagean). United States, Kentucky

Discoid root of unknown crinoid Lowenstam, 1948, Pl. 5, figs. 1-2.
Silurian, Niagaran, Blue Island Zone. United States, Illinois

Discoid type of holdfast (probably of a pisocrinid) Petr, 1984, p. 80, Fig. l. Webster, 1988, p. 186.
Late Silurian, Pridoli Formation. Czech Republic, Bohemia

Disparid basal attachment plate, perhaps *Columbicrinus crassus* Guensburg, 1992a, p. 132, Fig. 1, no. 5.
Late Ordovician, Sandbian, Lebanon Limestone. United States, Tennessee

Dissociated columnals Lowenstam, 1948, Pl. 6, fig. 2.
Silurian, Niagaran, Blue Island Zone. United States, Illinois

Dissociated myelodactylid columnals Donovan and Franzén-Bengtson, 1988, p. 71, Figs. 2-4. Webster, 1993, p. 151.
Silurian, late Llandoverian, lower part of Visby Beds. Sweden, Isle of Gotland

Distal coil Brett, 1981b, p. 348, Fig. 3, nos. E-F. Webster, 1988, p. 186.
Silurian, Rochester Shale. United States, New York

Distales Stielende eines Crinoiden Thomas and Haude, 2006, p. 186, Fig. 4, no. A.
Diagramatic

Distinctive “cog-wheel” crinoid columnal Ausich, 1996b, p. 247, Fig. 17-5, no. 11.
Silurian, uppermost part of Brassfield Formation. United States, Ohio

DISTINCTOCRINUS Milicina, 2001. **Distinctocrinus primitivus* Milicina, 2001.
Milicina, 2001a, p. 60. Milicina, 2001b, p. 396.
Recognized number of named columnal species: 1 Silurian, Wenlockian species
Silurian, late Wenlockian. Russia, Ural Mountains

**Distinctocrinus primitivus* Milicina, 2001a, p. 60, Pl. 8, figs. 1a-1b; Fig. 1, nos. a-b.
Milicina, 2001b, p. 397, Pl. 8, figs. 1a-1b; Fig. 1, nos. a-b
Silurian, late Wenlockian, Elkino Horizon. Russia, East slope of Ural Mountains

DITTLEROCRINUS Grygar and Vasícek, 1983. **D. gracilis* Grygar and Vasícek, 1983.
Grygar and Vasícek, 1983, p. 278.
Recognized number of named columnal species: 1 Pennsylvanian, Namurian species
Pennsylvanian, Namurian. Czech Republic

**Dittlerocrinus gracilis* Grygar and Vasícek, 1983, p. 278, Pl. 2, figs. 3a-3b; Fig. 7.
Pennsylvanian, Namurian. Czech Republic

DIVISICRINUS Stukalina, 1980. **D. divisus* Stukalina, 1980.
Stukalina, 1980d, p. 240. Stukalina, 1986, p. 72. Webster, 1986, p. 350. Webster, 1993, p. 151.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. Kazakhstan

**Divisicrinus divisus* Stukalina, 1980d, p. 240, Pl. 2, figs. 16-17. Webster, 1986, p. 350.
Middle Ordovician, Darriwilian. Northern Kazakhstan

Dizygocrinus parvus (Shumard, 1855) (*non* Rowley, 1906) = *Orocrinus parvus*

DOLATOCRINUS Lyon, 1857.
Dubatolova, 1971, p. 66. Webster, 1977, p. 198. Webster, 1993, p. 151.
Dolatocrinus (sensu lato) Stukalina, 1986, p. 84. Webster, 1993, p. 151.
Recognized number of named columnal species: 4 /Devonian species, 1 Eifelian, 3 Givetian species
Devonian, Givetian. United States; Uzbekisstan; Russia
Devonian, Eifelian. Russia

Dolatocrinus (sensu lato). Stukalina, 1986 = ***DOLATOCRINUS***

Dolatocrinus avis Moore and Jeffords, 1968, p. 47, Pl. 6, fig. 14. Webster, 1973, p. 290.
Devonian, Givetian (Erian), Wanakah Shale. United States, New York

Dolatocrinus? ellipsoidalis Milicina, 1977b, p. 131, Pl. 4, figs. 4-7; Fig. 8. Webster, 1986, p. 350.
Devonian, Eifelian. Russia, Eastern Slope Ural Mountains

Dolatocrinus exculptus Moore and Jeffords, 1968, p. 47, Pl. 6, figs. 12-13. Webster, 1973, p. 290. Ubaghs *in* Moore and Teichert, 1978, p. T498, Fig. 300, nos. if-ih. Webster, 1986, p. 350.
Middle Devonian, Ludlowville Formation. United States, New York

Dolatocrinus aff. *spinosus* Miller and Gurley, 1894. Dubatolova, 1971, p. 67, Pl. 8, fig. 5; Fig. 30. Webster, 1977, p. 198.
Early Devonian. Russia, Northeastern Salair; Uxbekistan Southwestern Tien-Shan

Dolatocrinus tetragonus (Schewtschenko, 1964). Stukalina, 1988c, p. 64, Pl. 13, fig. 20. Webster, 1993, p. 151.
Note. I have been unable to find any reference or listing in Schewtschenko, 1964, for
a species *tetragonus* thus the author is probably Stukalina. GDW, 2003.
Devonian, Givetian,Pandzhrut Horizon. Uzbekistan, Tien Shan

Dolatocrinus spp.
Conkin and Conkin, 1976, p. 220, Pl. 5. Conkin and Conkin, 1984, p. 34, Fig. 5. Webster, 1988, p. 186.
Devonian, Jeffersonville Limestone. United States, Kentucky
Ausich, 1996b, p. 248, Fig. 17-6, nos. 7-8.
Devonian, probably Columbus Limestone. United States, Ohio

Dolatocrinus stems Boucot, 1990, p. 36, Fig. 29, nos. C-F.
Devonian, Givetian, Hungry Hollow Formation; Kashong Shale. Canada, Ontario; United States, New York

DORASHAMICRINUS Stukalina, 1999. **Dorashamicrinus vulgaris* Stukalina, 1999.

Stukalina, 1999a, p. 22. Stukalina, 1999b, p. 144.
Recognized number of named columnal species: 1 Permian, early Dzhulfian species
Permian, early Dzhulfian. Russia, Transcaucasia

**Dorashamicrinus vulgaris* Stukalina, 1999a, p. 22, Pl. 2, figs. 15-16. Stukalina, 1999b, p. 144, Pl. 2, figs. 15-16.
Late Permian, early Dzhulfian. Russia, Transcaucasia

Dorycrinus amoenus Miller, S. A., 1891 = *Orocrinus parvus*

DRONOVICRINUS Stukalina, 1997. **D. notabilis* Stukalina, 1997.
Stukalina, 1997a, p. 68. Stukalina, 1997b, p. 413.
Recognized number of named columnal species: 1 Devonian/Mississippian, Famennian/Tournaisian species
Devonian/Mississippian, Famennian/Tournaisian boundary strata. Central Afghanistan
Devonian, Famennian. Poland

**Dronovicrinus notabilis* Stukalina, 1997a, p. 68, Pl. 9, fig.s 16-18. Stukalina, 1997b, p. 413, Pl. 9, figs. 16-18. Gluchowski, 2002, p. 323, Fig. 3, nos. R-S.
Devonian/Mississippian, Famennian/Tournaisian boundary strata. Central Afghanistan
Devonian, Famennian, *Pa. crepida* to *Pa. marginifera* Biozones. Poland

Dulanocrinidae Stukalina, 1986, p. 92, Fig. 26, no. 6. Stukalina, 1988c, p. 39, Fig. 22, no. 6. Webster, 1993, p. 151.
Ordovician, Katian. Kazakhstan

DULANOCRINUS Stukalina and Tujutjan, 1970. **D. ulkuntasensis* Stukalina and Tujutjan, 1970.
Stukalina and Tujutjan, 1970, p. 60. Webster, 1977, p. 198. Jeffords *in* Moore and Teichert, 1978, p. T933. Stukalina, 1986, p. 58. Webster, 1993, p. 152.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Southern Kazakhstan

**Dulanocrinus ulkuntasensis* Stukalina and Tujutjan, 1970, p. 61, Figs. 1, no. 3; 4. Webster, 1977, p. 198.
Ordovician, Katian, Ulkuntas Horizon. Kazakhstan

Dwortsowaecrinidae Stukalina, 1986, p. 90, Fig. 25, nos. 2-3 (not no. 1 as given in figure explanation). Stukalina, 1988c, p. 36, Fig. 321, nos. 2-3. Webster, 1993, p. 152.
Middle Ordovician - Early Silurian

DWORTSOWAECRINUS Stukalina *in* Stukalina and Tujutjan, 1967.
**Tetragonotetragonalis quadrihamatus* Yeltyschewa, 1963.

Stukalina *in* Stukalina and Tujutjan, 1967, p. 72. Webster, 1973, p. 290. Jeffords *in* Moore and Teichert, 1978, p. T933. Hynda, 1986, p. 78. Stukalina, 1986, p. 49. Webster, 1986, p. 350. Webster, 1988, p. 186. Webster, 1993, p. 152.
Recognized number of named columnal species: 9 species, 8 Ordovician, 1 Darriwilian, 4 Sandbian, 3 Katian; 1 Ordovician, Katian – Silurian, Llandoverian
Ordovician, Sandbian - Katian. Kazakhstan
Ordovician, Darriwilian, Katian – Silurian, Llandoverian. Estonia, Russia

Dwortsowaecrinus antiquus Stukalina and Tujutjan *in* Stukalina, 1980a, p. 89, Pl. 21, fig. 1; Fig. 15, no. 1. Stukalina, 1986, p. 49, Fig. 24, no. 1 (not Fig. 23 as given p. 49). Webster, 1986, p. 350. Webster, 1993, p. 152.
Ordovician. Darriwilian. Russia

Dwortsowaecrinus dwortsowae Stukalina *in* Stukalina and Tujutjan, 1967, p. 74, figs. 6, 10. Webster, 1973, p. 290. Stukalina, 1986, p. 49, Pl. 4, fig. 11. Stukalina, 1988c, p. 55, Pl. 1, fig. 10. Webster, 1993, p. 152.
Ordovician, Katian, Dulankaren Horizon, Akkol Limestone. Southern Kazakhstan

Dwortsowaecrinus korjikensis Stukalina, 1980a, p. 90, Pl. 21, figs. 2-3; Fig. 15, no. 2. Donovan, 1986c, p. 422, Fig. 1, nos. E-G). Stukalina, 1986, p. 49, Pl. 4, figs. 6-8; Fig. 24, no. 2. Webster, 1986, p. 350. Stukalina, 1988c, p. 55, Pl. 1, figs. 14-15; Fig. 20, no. 3. Webster, 1993, p. 152.
Ordovician, Sandbian, Anderken Horizon, Algabas Limestone. Kazakhstan

Dwortsowaecrinus nanus Stukalina, 1985a, p. 180, Pl. 1, fig. 8. Stukalina, 1986, p. 49, Pl. 4, fig. 9. Stukalina, 1988c, p. 55, Pl. 1, fig. 9. Webster, 1988, p. 186. Webster, 1993, p. 152.
Ordovician, Sandbian, Anderken Horizon; Sartanmanay Limestone.Southen Kazakhstan

**Dwortsowaecrinus quadrihamatus* (Yeltyschewa, 1963). Stukalina and Tujutjan, 1967, p. 72. Webster, 1973, p. 290. Yeltyschewa, 1979, p. 103, Pl. 1, fig. 11. Stukalina, 1986, p. 49, Pl. 4, figs. 12-14. Webster, 1986, p. 350. Stukalina, 1988c, p. 55, Pl. 1, figs. 11-13.
Tetragonotetragonalis quadrihamatus Yeltyschewa *in* Yeltyschewa and Stukalina, 1963, p. 55, Pl. 2, figs. 22-23; Fig. 21. Stukalina and Tujutjan, 1967, p. 72. Webster, 1973, p. 290.
Ordovician, Katian -Early Silurian, Llandoverian, Vormsi Horizon. Estonia; Russia, Nova Zemlya

Dwortsowaecrinus robustus Tujutjan *in* Stukalina and Tujutjan, 1967, p. 74, Figs. 1, no. 5; 11. Webster, 1973, p. 291.
Ordovician, Sandbian, Anderken Horizon. Kazakhstan

Dwortsowaecrinus sculptus Stukalina, 1980a, p. 91, Pl. 21, fig. 6; Fig. 15, no. 4. Stukalina, 1986, p. 49, Pl. 4, fig. 10; Fig. 24, no. 4 (not Fig. 23 as given p. 49). Webster, 1986, p. 351. Stukalina, 1988c, p. 55, Pl. 1, fig. 8. Webster, 1993, p.

152.
Ordovician, Sandbian, Anderken Horizon, Sartanmanay Limestone. Southern Kazakhstan

Dwortsowaecrinus simplex Stukalina, 1980a, p. 90, Pl. 21, figs. 4-5; Fig. 15, no. 3. Stukalina, 1986, p. 49, Pl. 4, fig. 5; Fig. 24, no. 3 (not Fig. 23 as given p. 49). Webster, 1986, p. 351. Stukalina, 1988c, p. 55, Pl. 1, figs. 6-7. Webster, 1993, p. 152.
Ordovician, Katian, Dulankaren Horizon, Otar Sandstone. Southern Kazakhstan

Dwortsowaecrinus tapaensis Yeltyschewa, 1979, p. 103, Pl. 1, figs. 9-10 (typographical error as *D. tapensis* on p. 142). Webster, 1986, p. 351.
Ordovician, Katian, Vormsi Horizon. Estonia

Dwortsowaecrinus spp.
Hynda, 1979, p. 60, Pl. 1, fig. 2; Fig. 2. Webster, 1986, p. 351.
Late Ordovician, Sandbian, Idavera Horizon. Russia, Volhyn
Hynda, 1986, p. 78, Pl. 12, fig. 14; Fig. 26. Webster, 1993, p. 153.
Late Ordovician, Sandbian (Caradocian), Idavera Horizon. Russia, Southwestern Eastern European Platform

Echinoderm column Tull *et al.*, 1993, p. 217, Figs. 4, nos. B-D; 5.
Ordovician?, unit directly above Murphy Marble. United States, North Carolina

Echinoderm holdfasts Wilson *et al.*, 1992, p. 26, Figs. 4, nos. A-F; 5, no. D.
Ordovician, Floian (late Arenig), Kanosh Shale. United States, Utah

ECTENOCRINUS Miller, 1889.
Webster, 1993, p. 153. Donovan and Wright, 1995, p. 231. Donovan, Paul, and Lewis, 1996, p. 206.
Recognized number of named columnal species: 4 Ordovician species, 1 Sandbian – Katian, 3 Katian
Ordovician, Sandbian - Katian. United States
Ordovician, Katian. United Kingdom

Ectenocrinus britannicus Donovan and Wright, 1995, p. 231, Figs. 3, nos. D-G; 4, no. H.
Ordovician, Katian (Ashgillian), beds above Keisley Limestone. United Kingdom

Ectenocrinus canadensis Titus, 1979, p. 112, Fig. 7, no. 7. Webster, 1986, p. 351.
Ordovician, Katian (early Trentonian). United States, New York

Ectenocrinus grandis (Meek, 1873). Jillson, 1963, p. 16, Fig. 13. Webster, 1973, p. 291.
Ordovician, Katian (Cincinnatian), Eden Formation. United States, Kentucky

**Ectenocrinus simplex* (Hall, 1847). Jillson, 1963, p. 16, Fig. 12. Webster, 1973, p. 291. Titus, 1979, p. 112, Figs. 7, no. 2; 8, no. 5. Donovan, 1986d, p. 23, Fig. 11, no. A. Webster, 1986, p. 351. Titus, 1989, p. 90, Figs. 4, nos. 24-25; 5, nos. 9, 10. Webster, 1993, p. 153. Meyer et al., 2002, p. 727, Fig. 2, nos. 2, 9.
Ordovician, Sandbian - Katian (Cincinnatian), Eden Formation; Steuben Limestone; Kope Formation and Fairview Formations. United States, New York, Ohio, Indiana

Ectenocrinus sp. A Donovan, 1986d, p. 24, Pl. 2, figs. 1-3; Fig. 11, no. B. Webster, 1993, p. 153.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

Ectenocrinus sp. B Donovan, 1986d, p. 24, Fig. 11, nos. C-D. Webster, 1993, p. 153.
Ordovician, Darriwilian (early Cautleyan). Ireland

Ectenocrinus spp.
Titus, 1989, p. 85, Figs. 6, 8. Webster, 1993, p. 153.
Ordovician, Katian (Trenton). United States, New York
Donovan, 1989e, p. 35, Fig. 14. Webster, 1993, p. 153.
Late Ordovician, Katian. United Kingdom
Donovan, 1991c, p. 34, Fig. 14.
Late Ordovician, Katian. United Kingdom
Donovan, Paul, and Lewis, 1996, p. 206, Pl. 38, fig. 5.
Ordovician, Katian (late Ashgillian), Rhiwlas Limestone. United Kingdom
Morris and Felton, 2003, p. 550, Fig. 2, no. D.
Late Ordovician, Katian (Cincinnatian), Fairview Formation. United States, Kentucky
McLaughlin and Brett, 2007, p. 262, Figs. 6; 7, nos. A-C; 11, nos. A, E; 12, nos. B, E, F; 14.
Late Ordovician, Katian (Cincinnatian), Lexington Limestone, Kope Formation. United States, Kentucky

EGIASAROWICRINUS Schewtschenko, 1971. **Pentagonocyclicus egiasarowi* Yeltyschewa, 1960.
Schewtschenko, 1971, p. 10, Pl. 3, fig. 12. Webster, 1977, p. 198. Jeffords *in* Moore and Teichert, 1978, p. T933. Stukalina, 1986, p. 56. Webster, 1988, p. 186. Webster, 1993, p. 153.
Recognized number of named columnal species: 2 Silurian species, 1 Llandoverian, 1 Wenlockian
Silurian, Llandoverian - Wenlockian. Russia

Egiasarowicrinus asiaticus Schewtschenko, 1971, p. 11, Pls. 2, figs. 11-12; 3, fig. 5; Fig. 9. Webster, 1977, p. 198.
Silurian, Llandoverian. Russia, Zeravshan-Gissar Mountain Region

**Egiasarowicrinus egiasarowi* (Yeltyschewa, 1960). Schewtschenko, 1971, p. 10. Webster, 1977, p. 198. Webster, 1993, p. 153. Stukalina, 2000, p. 34, Pl. 10, figs. 7-9, 12-13 (non fig. 11 as given p. 34); 13, figs. 5, 7-8, 11; Fig. 6, no. 4.

Pentagonocyclicus egiasarowi Yeltyschewa, 1960, p. 22, Pl. 5, figs. 5-6. Schewtschenko, 1971, p. 10. Webster, 1973, p. 306. Webster, 1977, p. 199. Stukalina, 1982b, p. 151. Webster, 1988, p. 174.
Eqiasarowicrinus eqiasarowi (Yeltyschewa, 1960). Stukalina, 1988c, p. 58, Pl. 4, figs. 24-25 (sic).
Obuticrinus egiasarowi (Yeltyschewa, 1960). Milicina, 1973, p. 18, Pl. 3, figs. 4-8. Webster, 1993, p. 136.
Silurian, Wenlockian, upper part of Agidyiskogo Horizon, Preimushchestvenno Khakom Horizon. Russia, Siberian Platform

**Egiasarowicrinus* ex. gr. *egiasarowi* (Yeltyschewa), 1960. Milicina, 1985, p. 49, Pl. 3, fig. 9 (not fig. 8 as given p. 49); Fig. 4. Webster, 1988, p. 186.
Silurian, Wenlockian, Klenov Suite. Russia, Nova Zemlya

Elément d'une tige Waagen et Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

ELLIPSELLIPSOPA Moore, 1939. *Nomen vetitum *E. spicata* Moore, 1939.
Moore, 1939a, p. 229. Moore, 1939b, p. 195. Branson, C. C., 1948, p. 191. Jeffords *in* Moore and Teichert, 1978, p. T936.
Recognized number of named columnal species: 2 species, 1 Pennsylvanian, Missourian' 1 Permian, Wolfcampian
Pennsylvanian, Missourian; Permian, Wolfcampian. United States, Kansas, Texas

Ellipsellipsopa latissima Moore, 1939a, p. 229, Fig. 1, nos. a-b. Bowsher and Strimple, 1986, p. 9, Fig. 28, nos. a-b. Webster, 1993, p. 153.
Permian, Wolfcampian. United States, Texas

**Ellipsellipsopa spicata* Moore, 1939b, p. 195, Pl. 1, figs. 3a-3b.
Pennsylvanian, Missourian, Checkerboard? Limestone. United States, Kansas

ELLIPSOCRINUS Prokop and Slámová, 2009. **Ellipsocrinus hanusi* Prokop and Slámová, 2009.
Prokop and Slámová, 2009, p. 38.
Recognized number of named columnal species: 1 Devonian, Emsian species
Devonian, early Emsian. Czech Republic

* *Ellipsocrinus hanusi* Prokop and Slámová, 2009, p. 38, Pl. 1, figs. A-J: Fig. 1, nos. A-D.
Devonian, early Emsian, Zlíchov Limestone. Czech Republic

ELLIPSOCYCLICUS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 6E. Yeltyschewa, 1959, p. 233, Fig. 1, no. 6E. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 6E. Dubatolova, 1964, p. 9, Fig. 1, no. 6E. Webster, 1973, p. 291. Jefords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species

ELLIPSOELLIPTICUS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 6F. Yeltyschewa, 1959, p. 233, Fig. 1, no. 6F.

Yeltyschewa, 1964b, p. 75, Fig. 114, no. 6F. Dubatolova, 1964, p. 9, Fig. 1, no. 6F. Webster, 1973, p. 291. Jeffords *in* Moore and Teichert, 1978, p. T936. Webster, 1986, p. 352.
Recognized number of named columnal species: 3 species. 1 Ordovician, Darriwilian; 1 Mississiippian uncertain; 1 late Paleozoic uncertain
Ordovician, Darriwiian. China
Late Paleozoic. China
Mississippian, Huaitoutala Formation. China, Qinghai

Ellipsoellipticus himalayensis Mu and Wu, 1975, p. 313, Pl. 1, figs. 30-34. Webster, 1986, p. 352.
Ordovician, Darriwilian, upper part of Chaitsun Group. China, Nyalomu Hsien

Ellipsoellipticus shaerensis Mu and Wu, 1975, p. 313, Pl. 1, fig. 35 (incorrectly given as fig. 23, p. 313). Webster, 1986, p. 352.
Late Paleozoic. China, Tingchieh Hsien

Ellipsoellipticus spicatus (Moore, 1939). Xu, Shan, and Chang, 1962, p. 123, Pl. 2, figs. 11a-c.
Mississippian, Huaitoutala Formation. China, Qinghai

ELLIPSOHEXAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 6D. Yeltyschewa, 1959, p. 233, Fig. 1, no. 6D. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 6D. Dubatolova, 1964, p. 9, Fig. 1, no. 6D. Webster, 1973, p. 291. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species

ELLIPSOPENTAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 6C. Yeltyschewa, 1959, p. 233, Fig. 1, no. 6C. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 6C. Dubatolova, 1964, p. 9, Fig. 1, no. 6C. Webster, 1973, p. 291. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species

ELLIPSOTETRAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 6B. Yeltyschewa, 1959, p. 233, Fig. 1, no. 6B. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 6B. Dubatolova, 1964, p. 9, Fig. 1, no. 6B. Webster, 1973, p. 291. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species

ELLIPSOTRIGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 6A. Yeltyschewa, 1959, p. 233, Fig. 1, no. 6A. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 6A. Dubatolova, 1964, p. 9, Fig. 1, no. 6A. Webster, 1973, p. 291. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species

Elliptical columnal of *Platycrinites* Sevastopulo and Keegan, 1980, p. 751, Pl. 94, figs. 2, 4. Webster, 1986, p. 380.
Mississippian, Brigantian, Charlestown Main Limestone. Ireland

Elliptical columnal with a pentagonal lumen Donovan, 1987a, p. 101, Fig. 5.
Webster, 1993, p. 153.
Ordovician, Katian (Ashgillian). United Kingdom

Elliptical crinoid stem plate resembling *Platycion* Fleming et al., 1974, p. 105, Fig. 4.
Webster, 1986, p. 398.
Late Plaeozoic, Neranleigh-Fernvale Beds. Australia, Queensland

Elliptical crinoid stem plate resembling *Platyplateium* Fleming et al., 1974, p. 105, Fig. 5. Webster, 1986, p. 398.
Late Plaeozoic, Neranleigh-Fernvale Beds. Australia, Queensland

ELYTROCLON Moore and Jeffords, 1968. **E. elimatus* Moore and Jeffords, 1978.
Moore and Jeffords, 1968, p. 39. Webster, 1973, p. 291. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 351.
Recognized number of named columnal species: 1 Missisippian, Viséan species
Mississippian, Viséan (Osagean). United States

**Elytroclon elimatus* Moore and Jeffords, 1968, p. 40, Pl. 3, figs. 2-3. Webster, 1973, p. 291. Ubaghs *in* Moore and Teichert, 1978, p. T80, Fig. 58, no. 1. Webster, 1986, p. 351.
Early Mississippian, Viséan (Osagean), New Providence Formation. United States, Kentucky

Empreintes d'Encrines(?) Bohm, 1935, p. 115, Pl. 5, figs. 12-13.
Early Carboniferous. France

Encrines Bohm, 1935, p. 114, Pl. 5, fig. 11.
Early Carboniferous. France

Encrinital columns Hall, 1843a, p. 90, Fig. 26.
Silurian, Niagaran. United States, New York

Encrinital limestone Hall, 1843a, p. 204, Fig. 83, nos. 1-2.
Devonian, Portage Group. United States, New York

Encrinite stem (the oldest known) Murchison, 1859 = *Aethocrinus murchisoni*

ENCRINITES Guettard, 1761.
Guettard, 1761, p. 29 (non Davila and Romé de L'Isle, 1769). Jeffords *in* Moore and Teichert, 1978, p. T937.
Note: *Encrinites* has been used for crinoids of all ages. Species properly assigned to the genus are post-Paleozoic in age. Paleozoic species assigned to *Encrinites* are left in the genus until properly reassigned. GDW

ENCRINITES Miller, 1821.
Steininger, 1831, p. 22.

Encrinites anonymus Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites apiosus de Gregorio, 1930, p. 37, Pl. 13, fig. 12. Bassler and Moodey, 1943, p. 446.
Permian, Wordian: Sicily

Encrinites artifex Barrande *in* Waagen and Jahn, 1899 = ?Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites betula Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites binarius Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites disculus de Gregorio, 1930, p. 37, Pl. 13, figs. 24-25. Bassler and Moodey, 1943, p. 447.
Permian, Wordian. Sicily

Encrinites doctus Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Encrinites echinatus Schlotheim, 1822-1823, p. 95, Pl. 25, figs. 5a-5f.
Mississippian, Mountain Limestone. United Kingdom

Encrinites epithonius Quenstedt, 1852, p. 622, Pl. 54, figs. 34-35. Quenstedt, 1867, p. 745, Pl. 68, figs. 34-35. Quenstedt, 1885, p. 961, Pl. 78, fig. 1.
Devonian, Eifelian. Germany

Encrinites fenestratus Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites flexilis Hisinger, 1823, p. 88, Pl. 3.
Age uncertain, Paleozoic?. Norway

Encrinites gemmans Barrande *in* Waagen and Jahn, 1899 (part)= Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites gemmans Waagen and Jahn, 1899 (part)= ?*Asperocrinus gemmans*

Encrinites inflatus Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites laetus Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites laso Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites liliiformis Miller, 1821. Steininger, 1831, p. 22 (not *E. liliiformis*, GDW).
Devonian, Eifelian. Germany

Encrinites margaritarum Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Encrinites medullosus Barrande *in* Waagen and Jahn, 1899 (part) = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites medullosus Barrande *in* Waagen and Jahn, 1899 (part) = Scyphocrinitidae gen. et sp. ind.

Encrinites milleporus Waagen and Jahn, 1899 (part) = ?Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites mirus de Gregorio, 1930, p. 38, Pl. 13, figs. 17-18. Bassler and Moodey, 1943, p. 448.
Permian, Wordian. Sicily

Encrinites nepos Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites nudus Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites nudus de Gregorio, 1930, p. 38, Pl. 13, figs. 22-23. Bassler and Moodey, 1943, p. 448.
Permian, Wordian. Sicily

Encrinites nympharum Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites orthoceratoides Schlotheim, 1820, p. 335. Schlotheim, 1823, p. 91, Pl. 24, figs. 1a-1f. Schlotheim, 1832, p. 23, Pl. 24, figs. 1a-1f. Bassler and Moodey, 1943, p. 448 (root of *Crotalocrinites*).
Silurian. Sweden, Isle of Gotland

Encrinites patiens de Gregorio, 1930, p. 37, Pl. 13, fig. 14-15. Bassler and Moodey, 1943, p. 448.
Permian, Wordian. Sicily

Encrinites perminutus de Gregorio, 1930, p. 37, Pl. 13, fig. 13. Bassler and Moodey, 1943, p. 448.
Permian, Wordian. Sicily

Encrinites petasus Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites placidus Barrande *in* Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Encrinites praecursor Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites praedominans de Gregorio, 1930, p. 36, Pl. 13, figs. 1-5. Bassler and Moodey, 1943, p. 448.
Permian, Wordian. Sicily

Encrinites praedominans alternatus de Gregorio, 1930, p. 37, Pl. 13, fig. 6. Bassler and Moodey, 1943, p. 448.
Permian, Wordian. Sicily

Encrinites procerus Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Encrinites regularis Gregorio, 1930, p. 37, Pl. 13, fig. 19. Bassler and Moodey, 1943, p. 449.
Permian, Wordian. Sicily

Encrinites robustissimus Waagen and Jahn, 1899 = Polypeltidae gen. et sp. ind.

Encrinites rotator Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites runicus Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Encrinites scopularum Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites senior Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Encrinites simplicior Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Encrinites stoloniferus Fischer de Waldheim, 1830. Fischer de Waldheim, 1837, Pl. 41, figs. 5-6.
Pennsylvanian, Moscovian. Russia, Moscow Basin

Encrinites stringens Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites St. Ivanensis Waagen and Jahn, 1899 = *Pandocrinus stoloniferus*?

Encrinites subpartitus Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites tolomeus de Gregorio, 1930, p. 37, Pl. 13, fig. 26. Bassler and Moodey, 1943, p. 449.
Permian, Wordian. Sicily

Encrinites turgidus Waagen and Jahn, 1899 (part) = Polypeltidae gen. et sp. ind.

Encrinites versatilis Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites sp. Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Encrinites spp.
Schlotheim, 1822-1823, p. 101, Pl. 28, figs. 4a-4c.
Mississippian. United Kingdom
Fischer de Waldheim, 1837, Pl. 40, figs. 4-7.
Pennsylvanian, Moscovian: Russia, Moscow Basin
Castelnau, 1843, p. 51, Pl. 25, fig. 4.
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 25, fig. 5.
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 25, fig. 6 (secondarily called *Cyathocrinites*).
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 25, fig. 7 (incorrectly given as fig. 3 and secondarily called *Pentacrinites*).
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 25, fig. 8.
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 25, fig. 9.
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 25, fig. 10.
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 25, fig. 11 (secondarily called *Apiocrinites*).
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 26, fig. 1.
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 26, fig. 2.
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 26, fig. 3 (secondarily called *Apiocrinites?*).
Called Silurian, probably Devonian. United States, New York
Castelnau, 1843, p. 51, Pl. 26, fig. 4. (May be an ichnofossil, GDW)
Called Silurian, probably Devonian. United States, New York
Couch, 1855, p. 251, Figs. G-I.
Devonian. United Kingdom
Sharpe and Salter, 1856, p. 223, Pl. 26, figs. 20-23.
Devonian, Bokkeveld. South Africa

Encrinites spp. allied to *Rhodocrinus* Sharp and Salter, 1856, p. 223, Pl. 25, figs. 21-28.
Early Devonian, Bokkeveld Series. South Africa

Encrites apiosus de Gregorio, 1930, p. 37 (sic).
Permian, Wordian. Sicily

ENCRINUS Lamarck, 1801.
Lamarck , 1801, p. 379.
Recognized number of named columnal species: 7 species. 1 Ordovician, 6 Devonian
Middle Triassic. Europe
Note: Numerous Paleozoic crinoid columnals have been incorrectly assigned to *Encrinus*. They are left in this incorrect combination until properly reassigned.

Encrinus curvatus Eaton, 1832, p. 36, 128, Pl. 1, fig. 4. Bassler, 1915, p. 480.
Ordovician. United States, New York

Encrinus equicyclus Eaton, 1832, p. 128, Pl. 1, fig. 7.
Devonian, Corniferous Limestone. United States, New York

Encrinus giganteus Eaton, 1832, p. 37, Pl. 1, fig. 8.
Devonian, Saliferous rock. United States, New York

Encrinus interruptus Eaton, 1832, p. 37, Pl. 1, fig. 9.
Devonian, Coral Rag. United States, New York

Encrinus teretiformis Eaton, 1832, p. 37, Pl. 1, fig. 12. (A tentaculitid, GDW)
Devonian, Coral Cave. United States, New York

Encrinus transversus Eaton, 1832, p. 36, Pl. 1, fig. 5.
Devonian, Otsquago Creek. United States, New York

Encrinus transversus variety *multiradiatus* Eaton, 1832, p. 36, Pl. 1, fig. 11 (referred to as *E. multiradiatus,* p. 36).
Devonian, 1st greywacke. United States, New York

Encrinus tricyclus Eaton, 1832, p. 36, Pl. 1, fig. 6
Devonian, 3rd greywacke. United States, New York

Encrinus sp.
Cumberland, 1821, p. 94, Pl. 5, fig. 11.
Early Carboniferous?. United Kingdom
Cumberland, 1821, p. 94, Pl. 5, fig. 12.
Mississippian?. United Kingdom
Cumberland, 1821, p. 94, Pl. 5, fig. 13.
Mississippian?. United Kingdom

ENCRINUSTES Sharpe and Salter, 1856. *Nomen nudum*
Sharpe and Salter, 1856, p. 223. No type species

Encrinustes spp. Sharpe and Salter, 1856, p. 223, Pl. 25, figs. 21-28.
Early Devonian, Bokkeveld Series. South Africa, Cape Province

Encrusting crinoid holdfast Rozhnov, 2000, p. 248, Fig. 11.6.
Early Ordovician, Floian or Dapingian (Arenigian), Volkhov Stage. Russia

Encrusting type of crinoid holdfast Prokop and Petr, 1989a, p. 1331, Pl. 1, fig. 11; Fig. 4.
Devonian, Pragian, Lodenice Limestone. Czech Republic, Bohemia

Enkrinitenstieles Fric, 1869, p. 259, Fig. 56, nos. a-h. Fric, 1970, p. 233, Fig. 56, nos. a-h.
Silurian or Devonian?, Limestone of Pankrac. Czech Republic, Bohemia

Enlarged crinoid stem-portions Etheridge, 1903 = *Baryschyr? carnarvonensis*

Enlarged stems Etheridge, 1892, p. 117, Pl. 18, fig. 3.
Permian, Upper Marine Series. Australia, New South Wales

ENTROCHI of authors
Note. *Entrochi* (18 species), *Entrochites* (6 species), and *Entrochus* (16 species) have been applied to refer to columnals of various types and ages. They are left as assigned until properly reassigned. GDW

Entrochi Ure, 1793, p. 318, Pls. 18, figs. 1-22; 19, figs. 1-3, 5-6.
Age variable, probably both Paleozoic and Mesozoic. United Kingdom

Entrochi, Asteriae, Trochitae vertebrae Cumberland, 1811, p. 152-216, Pls. 13, figs. 1-23, 25-29, 31-35, 38-74; 15, figs. 1, 3-8. (There are many taxa in the forms illustrated, including Paleozoic and post-Paleozoic forms. Locality information is provided in the text for some specimens.)
Silurian - Recent. United Kingdom

Entrochi biarticulati Quenstedt, 1876 = *Hexacrinites (?) humilicarinatus*

Entrochi cavi Stache, 1883, p. 394, Pl. 6, figs. 4, 17.
Mississippian. Western Sahara

Entrochi cingulati Stache, 1883, p. 393, Pl. 5, figs. 15-16.
Mississippian. Western Sahara

Entrochi cingulati impares Quenstedt, 1876, p. 645, Pl. 112, figs. 104-111.
Entrochus cingulatus impares (Quenstedt, 1876). Bassler and Moodey, 1943, p. 451.
Devonian, Eifelian. Germany

Entrochi cingulati pares Quenstedt, 1876, p. 647, Pl. 112, figs. 112-117.

Entrochus cingulatus pares (Quenstedt, 1876). Bassler and Moodey, 1943, p. 451.
Devonian, Eifelian. Germany

Entrochi erecti Quenstedt, 1876, p. 648, Pl. 112, figs. 121-123.
Entrochus erectus (Quenstedt, 1876). Bassler and Moodey, 1943, p. 452.
Devonian, Eifelian, Eifel Limestone. Germany

Entrochi impares Quenstedt, 1876, p. 643, Pl. 112, figs. 92-103.
Devonian, Eifelian. Germany

Entrochi irregularis g Rothpletz, 1892, p. 73, Pl. 13, fig. 21 (given as *Entrochus irregularares* on plate explanation).
Permian. Timor, Rotti

Entrochi irregularis h Rothpletz, 1892, p. 73, Pl. 13, fig. 24 (given as *Entrochus irregularares* on plate explanation).
Permian. Timor

Entrochi laeves concavi Quenstedt, 1876, p. 641, Pl. 112, figs. 80-81.
Entrochus laevis cavus (Quenstedt, 1876). Bassler and Moodey, 1943, p. 452.
Devonian, Eifelian. Germany

Entrochi laeves incisi Stache, 1883, p. 391, Pls. 5, figs. 8-10; 6, figs. 13-16.
Mississippian. Western Sahara

Entrochi laeves lineati Quenstedt, 1876, p. 640, Pl. 112, figs. 72-77.
Entrochus laevis lineati (Quenstedt, 1876). Bassler and Moodey, 1943, p. 452.
Devonian, Eifelian. Germany

Entrochi laeves plani Stache, 1883, p. 388, Pls. 5, figs 1-7; 6, figs. 9-10.
Mississippian. Western Sahara

Entrochi laevis sigillatus Quenstedt, 1876, p. 641, Pl. 112, fig. 78.
Entrochus laevis sigillatus (Quenstedt, 1876). Bassler and Moodey, 1943, p. 452.
Devonian, Eifelian. Germany

Entrochi laeves subtornati Stache, 1883, p. 392, Pl. 5, figs. 12-14.
Mississippian. Western Sahara

Entrochi laevis compressus Stache, 1883, p. 395, Pl. 6, fig. 5.
Mississippian. Western Sahara

Entrochi laevis impar.? Stache, 1883, p. 397, Pl. 6, fig. 17.
Mississippian. Western Sahara

Entrochi laevis incisus Stache, 1883, p. 395, Pl. 6, fig. 6.
Mississippian. Western Sahara

Entrochi laevis planus Stache, 1883, p. 396, Pl. 6, figs. 19-20.
Mississippian. Western Sahara

Entrochi laevis subangulatus Stache, 1883, p. 395, Pl. 6, fig. 7.
Mississippian. Western Sahara

Entrochi ligati Quenstedt, 1876, p. 650, Pl. 113, figs. 1-10.
Entrochus ligatus (Quenstedt, 1876). Bassler and Moodey, 1943, p. 452.
Devonian, Eifelian. Germany

Entrochi mammillati Quenstedt, 1976 = *Hexacrinites(?) humilicarinatus*

Entrochi pares Quenstedt, 1876, p. 643, Pl. 112, fig. 91.
Entrochus pares (Quenstedt, 1876). Bassler and Moodey, 1943, p. 453.
Devonian, Eifelian. Germany

Entrochi regularis a Rothpletz, 1892, p. 72, Pl. 13, fig. 38.
Permian. Timor, Amarassi

Entrochi regularis b Rothpletz, 1892, p. 72, Pl. 13, fig. 23, 32-34.
Permian. Timor, Rotti

Entrochi regularis c Rothpletz, 1892, p. 72, Pl. 13, fig. 29. 36-37.
Permian. Timor, Ajer Mati, Amarassi

Entrochi regularis d Rothpletz, 1892, p. 72, Pl. 13, fig. 30-31.
Permian. Timor, Ajer Mati, Amarassi

Entrochi regularis e Rothpletz, 1892, p. 72, Pl. 13, fig. 18-20.
Permian. Timor, Rotti

Entrochi regularis f Rothpletz, 1892, p. 72, Pl. 13, fig. 22.
Permian. Timor

Entrochi cf. *rosacei* Quenstedt, 1876, p. 651, Pl. 113, figs. 11-15.
Entrochus rosaceus (Quenstedt, 1876). Bassler and Moodey, 1943, p. 453.
Devonian, Eifelian. Germany

Entrochi stellati Quenstedt, 1876 = *Entrochus stellatus*

Entrochi subtornatus interlineatus Stache, 1883, p. 397, Pl. 6, fig. 12.
Mississippian. Western Sahara

Entrochi tornati Quenstedt, 1876, p. 641, Pl. 112, figs. 82-90.
Entrochus tornati (Quenstedt, 1876). Bassler and Moodey, 1943, p. 454.
Devonian, Eifelian. Germany

Entrochi tornati Stache, 1883 (*non* Quenstedt, 1876), p. 393, Pls. 5, fig. 11; 6, fig. 11.
Mississippian. Western Sahara

Entrochi cf. *tornati* Quenstedt, 1876, p. 641, Pl. 113, figs. 16-20.
Devonian, Eifelian. Germany

Entrochi tornatus Stache, 1883, p. 394, Pl. 6, figs. 1-4, 18, 21.
Mississippian. Western Sahara

Entrochit Quenstedt, 1876, p. 650, Pl. 112, figs. 133-134.
Devonian, Eifelian. Germany

Entrochitae Martin, 1809, Pls. 24, figs. 1-3.
Carboniferous?. United Kingdom, Derbyshire

Entrochiten unbestimmter Gattung Beyrich, 1865, p. 84, Pl. 2, figs. 13-15.
Permian. Timor

ENTROCHITES Titius, 1767.
Titius, 1767, p. 2. Jeffords *in* Moore and Teichert, 1978, p. T937.
Carboniferous. United Kingdom

Entrochites annulatus Titius, 1767, p. 4.
Carboniferous. United Kingdom

Entrochites laceratus Quenstedt, 1876, p. 585, Pls. 110, fig. 29. Bassler and Moodey, 1943, p. 452.
Mississippian, Viséan (Osagean), lower part of Burlington Limestone. United States, Iowa

Entrochites laevis Titius, 1767, p. 2.
Carboniferous. United Kingdom

Entrochites prominens Titius, 1767, p. 3.
Carboniferous. United Kingdom

Entrochites tetradactylus Pusch, 1833-1837, p. 8, Pl. 2, fig. 8.
Entrochus tetradactylus (Pusch, 1837). Bassler and Moodey, 1943, p. 453.
Devonian. Poland

Entrochites verrucosus Titius, 1767, p. 3.
Carboniferous. United Kingdom

Entrochite sp. Mantell, 1854, Fig. 91, no. 8.
No age given, probably Paleozoic. United Kingdom

ENTROCHUS Agricola, 1558. Bassler, 1938, p. 95.

ENTROCHUS Hofer, 1760.
Hofer, 1760, p. 189. Jeffords *in* Moore and Teichert, 1978, p. T933.
Silurian - Permian. Cosmopolitan

Entrochus asteriscus Roemer, C. F., 1885, p. 84, Pl. 7, figs. 18a-18c. Siemiradzki, 1906a, p. 277, Pl. 21, fig. 20. Siemiradzki, 1906b, p. 277, Pl. 7, fig. 20.
Crinoid. indet. Murchison, 1839, Pl. 4, fig. 56. Siemiradzki, 1906a, p. 277.
Entrochus sp. Krause, 1884, p. 12, Pl. 1, fig. 2. Siemiradzki, 1906a, p. 277.
Silurian, Ludlovian, *Monograptus* Biozone. Russia, Podolia
Devonian, Beyrichien Kalk. Germany

Entrochus anonymus Waagen and Jahn, 1899 = *Encrinites anonymus*

Entrochus biarticulatus (Quenstedt, 1876) = *Entrochi biarticulati*

Entrochus bulbosus Waagen and Jahn, 1899 = Polypeltidae gen. et sp. ind.

Entrochus cingulatus Stache, 1883, p. 399, Pl. 6, fig. 26.
Mississippian. Western Sahara

Entrochus cingulatus impares (Quenstedt, 1876) = *Entrochi cingulati impares*

Entrochus cingulatus pares (Quenstedt, 1876) = *Entrochi cingulati pares*

Entrochus cingulatus impares Yeltyschewa, 1961 = *Pentagonocyclicus cingulatus* = *Salairocrinus cingulatus* = *Pestericrinus cingulatus*

Entrochus compressus Quenstedt, 1876, Pl. 111, fig. 43. Bassler and Moodey, 1943, p. 452.
Devonian, Eifelian, Eifel Limestone. Germany

Entrochus dentatus Quenstedt, 1876, p. 649, Pl. 112, fig. 132. Bassler and Moodey, 1943, p. 452. Modzalevskaya, 1967, p. 547, Pl. 6, fig. 26. Yeltyschewa, 1969, p. 156, Pl. 58, figs. 3-5. Webster, 1973, p. 291. Webster, 1977, p. 199.
Devonian, Eifelian, Eifel Limestone. Germany
Middle - Late Devonian, Oldoiskaya Suite. Russia, Upper Amur Basin

Entrochus cf. *dentatus* Quenstedt, 1874-1876. Yeltyschewa and Dubatolova, 1961, p. 557, Pl. D-87, figs. 16-17. Webster, 1973, p. 291.
Middle Devonian. Russia, Altai Mountains

Entrochus dentatus echinata Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961 = *Fabalium rudocostatus* = *Asperocrinus echinatus*

Entrochus dentatus var. *echinata* Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961 = *Pentagonocyclicus dentatus* var. *echinata* = *Fabalium rudocostatum* = *Asperocrinus echinatus*

Entrochus doctus Barrande *in* Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Entrochus erectus (Quenstedt, 1876) = *Entrochi erecti*

Entrochus impar laceratus Stache, 1883, p. 399, Pl. 6, fig. 27.
Mississippian. Western Sahara

Entrochus laceratus Quenstedt, 1876, p. 649, Pl. 112, fig. 131. Bassler and Moodey, 1943, p. 452.
Devonian, Eifelian. Germany

Entrochus laetus Barrande *in* Waagen and Jahn, 1899 = Crinoidearum ordo, fam., gen. et sp. ind.

Entrochus laevis cavus (Quenstedt, 1876) = *Entrochi laeves concavi*

Entrochus laevis compressus Quenstedt, 1876, p. 641, Pl. 112, fig. 79. Bassler and Moodey, 1943, p. 452.
Devonian, Eifelian. Germany

Entrochus laevis lineati (Quenstedt, 1876) = *Entrochi laeves lineati*

Entrochus laevis sigillatus (Quenstedt, 1876) = *Entrochi laevis sigillatus*

Entrochus ligatus Quenstedt, 1876 = *Pentagonocyclicus ligatus* = *Aporretocrinus ligatus*

Entrochus ligatus (Quenstedt, 1876) = *Entrochi ligati*

Entrochus mammillati (Quenstedt, 1876) = *Entrochi mammillati* = *Hexacrinites(?) humilicarinatus*

Entrochus margaritarum Barrande *in* Waagen and Jahn, 1899, p. 149, Pl. 71, figs. 8-11 (Given as *Encrinites* on plate explanation). Bassler and Moodey, 1943, p. 452.
Silurian. Czech Republic, Bohemia

Entrochus micropyle Quenstedt, 1876, p. 648, Pl. 112, figs. 119-120. Stache, 1883, p. 399, Pl. 6, fig. 25. Bassler and Moodey, 1943, p. 452.
Devonian, Eifelian. Germany
Mississippian. Western Sahara

Entrochus milleporus Barrande *in* Waagen and Jahn, 1899 = ?Crinoidearum ordo, fam., gen. et sp. ind.

Entrochus moniliferus Quenstedt, 1876, p. 649, Pl. 112, figs. 129-130. Bassler and Moodey, 1943, p. 453.
Devonian, Eifelian. Germany

Entrochus nodulosus Waagen and Jahn, 1899 = Polypeltidae gen. et sp. ind.

Entrochus pares (Quenstedt, 1876) = *Entrochi pares*

Entrochus placidus Barrande *in* Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Entrochus primus Waagen and Jahn, 1899 = *Ramseyocrinus? primus*

Entrochus pygmaeus (Eichwald, 1860). Donovan, 1986d, p. 22. Webster, 1993, p. 155.
Goniaster pygmaeus Eichwald, 1860. Donovan, 1986d, p. 22. Webster, 1993, p. 155.
Tetragonocrinus (Eichwald, 1860). Donovan, 1986d, p. 22. Webster, 1993, p. 155.
Early Ordovician. Estonia

Entrochus quadrinus Quenstedt, 1876, p. 655, Pl. 113, figs. 34-36. Bassler and Moodey, 1943, p. 453.
Ordovician, Darriwilian, *Orthocerus* Limestone. Russia, Pulkowa

Entrochus regularis Rothpletz, 1892. Gupta, 1971, p. 71, Pl. 54, fig. 18. Webster, 1977,
p. 199.
Note, most Gupta localities considered fraudulent, Webster, 1993.
Permian. India, Mandakpal, Kashmir

Entrochus robustissimus Barrande, 1887 = *Pentagonocyclicus robustissimus*

Entrochus robustissimus Barrande *in* Waagen and Jahn, 1899 = Polypeltidae gen. et sp. ind.

Entrochus rosaceus (Quenstedt, 1876) = *Entrochi* cf. *rosacei*

Entrochus cf. *rugosus* Quenstedt, 1876, p. 647, Pl. 112, fig. 118.
Devonian, Eifelian. Germany

Entrochus runicus Barrande *in* Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Entrochus senior Barrande *in* Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Entrochus simplicior Barrande *in* Waagen and Jahn, 1899 = Scyphocrinitidae gen. et sp. ind.

Entrochus stellatus Quenstedt, 1876. Stache, 1883, p. 399, Pl. 6, fig. 28. Bassler and Moodey, 1943, p. 453.
Entrochi stellati Quenstedt, 1876, p. 653, Pl. 113, figs. 21-28.
Devonian, Eifelian. Germany
Mississippian. Western Sahara

Entrochus tetradactylus (Pusch, 1837) = *Entrochites tetradactylus*

Entrochus tornati (Quenstedt, 1876) = *Entrochi tornati*

Entrochus, gen. et sp. indet. Chapman, 1901, p. 144, Pl. 3, figs. 5-6.
Silurian, Wenlockian. Sweden, Gotland

Entrochus sp. A Sieverts-Doreck, 1951a, p. 129, Pl. 9, fig. 9. Webster, 1973, p. 292.
Mississippian, Erdbaker Limestone. Germany

Entrochus sp. B Sieverts-Doreck, 1951a, p. 130, Pl. 9, fig. 8. Webster, 1973, p. 292.
Mississippian, Erdbaker Limestone. Germany

Entrochus sp. C Sieverts-Doreck, 1951a, p. 135. Webster, 1973, p. 292.
Mississippian. Germany

Entrochus sp. D Sieverts-Doreck, 1951a, p. 136. Webster, 1973, p. 292.
Mississippian. Germany

Entrochus sp. E Sieverts-Doreck, 1951a, p. 136, Pl. 9, fig.11; Fig. 3. Webster, 1973, p. 292.
Mississippian. Germany

Entrochus sp. F Sieverts-Doreck, 1951a, p. 139, Fig. 7. Webster, 1973, p. 292.
Mississippian. Germany

Entrochus sp. G Sieverts-Doreck, 1951a, p. 142. Webster, 1973, p. 292.
Mississippian. Germany

Entrochus sp. H Sieverts-Doreck, 1951a, p. 142, Pl. 9, fig. 1. Webster, 1973, p. 292.
Mississippian. Germany

Entrochus (Culmicrinus?) sp. 1 Sieverts-Doreck, 1964, p. 9, Pl. 1, fig. 11. Webster, 1973, p. 292.
Mississippian, Namurian?, Hangend Bed. Spain

Entrochus (Culmicrinus?) sp. 1? Sieverts-Doreck, 1964, p. 10, Pl. 1, fig. 12. Webster, 1973, p. 292.
Mississippian, Namurian?, Hangend Bed. Spain

Entrochus sp. 2 Sieverts-Doreck, 1964, p. 10, Pl. 1, figs. 13-14. Webster, 1973, p. 292.

Mississippian, Namurian?, Hangend Bed. Spain

cf. *Entrochus* sp. 2 Sieverts-Doreck, 1964, p. 11. Webster, 1973, p. 292.
Mississippian, Namurian?, Pyritkalkbank. Spain

Entrochus sp. 3 Sieverts-Doreck, 1964, p. 11. Webster, 1973, p. 292.
Mississippian, Namurian?, Middle Limestone Series. Spain

Entrochus sp. 1 Ramovs and Sieverts-Doreck, 1968, p. 202, Pl. 1, fig. 2 right.
Middle Permian, Trogkofel Stage. Yugoslavia

Entrochus sp. 2 Ramovs and Sieverts-Doreck, 1968, p. 202, Pl. 1, fig. 5.
Middle Permian, Trogkofel Stage. Yugoslavia

Entrochus spp.
Krause, 1877, p. 12, Pl. 1, fig. 3. Roemer, C. F., 1885, p. 94, Pl. 7, figs. 17a-17b.
Devonian, Beyrichien- oder Choneten-Kalke. Germany
Krause, 1877, p. 12, Pl. 1, fig. 2.
Devonian, Beyrichien- oder Choneten-Kalke. Germany
Krause, 1877, p. 12, Pl. 1, fig. 5. Roemer, C. F., 1885, p. 94.
Devonian, Beyrichien- oder Choneten-Kalke. Germany
Krause, 1877, p. 13, Pl. 1, fig. 4. Roemer, C. F., 1885, p. 95.
Devonian, Beyrichien- oder Choneten-Kalke. Germany

Entrochus sp. ind.
Siemiradzki, 1906a, p. 277, Pl. 21, fig. 14. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 14.
Silurian, *Monograptus* Biozone. Ukraine, Podolia
Siemiradzki, 1906a, p. 277, Pl. 21, fig. 16. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 16.
Silurian, *Monograptus* Biozone. Ukraine, Podolia
Siemiradzki, 1906a, p. 277, Pl. 21, fig. 16. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 17.
Silurian, *Monograptus* Biozone. Ukraine, Podolia
Siemiradzki, 1906a, p. 277, Pl. 21, fig. 19. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 19.
Silurian, *Monograptus* Biozone. Ukraine, Podolia
Siemiradzki, 1906a, p. 277, Pl. 21, fig. 2. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 22.
Silurian, *Monograptus* Biozone. Ukraine, Podolia
Siemiradzki, 1906a, p. 277, Pl. 21, figs. 25-28. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 25-28.
Silurian, *Monograptus* Biozone. Ukraine, Podolia
Siemiradzki, 1906a, p. 277, Pl. 21, fig. 29. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 29.
Silurian, *Monograptus* Biozone. Ukraine, Podolia
Sieverts-Doreck, 1964, p. 11. Webster, 1973, p. 292.
Mississippian, Namurian?, Middle Limestone Series. Spain

Entrochus (Crotalocrinus?) sp.
Siemiradzki, 1906a, p. 277, Pl. 21, fig. 21. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 21.
Age uncertain. Ukraine, Podolia
Siemiradzki, 1906a, p. 277, Pl. 24, fig. 14. Siemiradzki, 1906b, p. 181, Pl. 7, fig. 24.
Age uncertain. Ukraine, Podolia

Entrochus sp. Krause, 1884 = *Entrochus asteriscus*

Entrochus spp. Stache, 1883, p. 398, Pl. 6, figs. 22-23.
Mississippian. Western Sahara

EOCAMPTOCRINUS Gluchowski, 1980. **E. fragilis* Gluchowski, 1980.
Gluchowski, 1980a, p. 46. Webster, 1986, p. 351. Webster, 1993. 1988, p. 186.
Recognized number of named columnal species: 1 Devonian Eifelian – Givetian species
Devonian, Eifelian - Givetian. Poland

**Eocamptocrinus fragilis* Gluchowski, 1980a, p. 46, Pls. 1, fig. 3; 2, fig. 2. Gluchowski, 1981b, p. 36, Pl. 36, fig. 3. Webster, 1986, p. 351. Webster, 1988, p. 186. Gluchowski, 1993a, p. 42, Fig. 4, no. G.
Devonian, Eifelian-Givetian boundary, Skaly Beds. Poland

EOMYELODACTYLUS Foerste, 1919.
Webster, 1993, p. 155.
Recognized number of named columnal species: 4 Silurian Llandoverian species
Silurian, late early or middle Llandoverian. United States

Eomyelodactylus ?plumosus (Hall, 1852) Eckert and Brett, 2001, p. 7, 38.
Glyptocrinus plumosus Hall, 1852a, p. 180, Pl. 41, figs. 3a-3g. Shumard, 1868, p. 373. Bigsby, 1868, p. 20. Miller, S. A., 1889, p. 248. Grabau, 1901a, p. 157, Fig. 52. Grabau, 1901b, p. 157, Fig. 52. Bassler, 1915, p. 555. Bassler and Moodey, 1943, p. 493. Eckert and Brett, 2001, p. 38, Fig. 1, no. I.
Actinocrinus? plumosus Hall, 1843b, p. 72, Pl. 16, fig. 5; Fig. 16, no. 5. Bronn, 1848, p. 14. Miller, S. A., 1889, p. 219. Bassler, 1915, p. 555. Bassler and Moodey, 1943, p. 493.
Actinocrinites? plumosus (Hall, 1843). Shumard, 1868, p. 373.
Silurian, middle Llandoverian, Reynales Limestone. United States, New York

**Eomyelodactylus rotundatus* (Foerste, 1919). Ausich, 1986c, p. 722. Webster, 1993, p. 155.
Silurian, late early or middle Llandoverian, Brassfield Limestone. United States, Ohio

Eomyelodactylus sparteus Eckert, 1990, p. 38, Pl. 2, figs. 1-5, 15, 22; Fig. 13, no. A.
Silurian, middle Llandoverian, Raynales Formation, Hickory Corners Member. United
States, New York

Eomyelodactylus uniformis Eckert, 1990. Eckert and Brett, 2001, Pl. 2, figs. 18, 20; Fig. 13, no. B.
Silurian, middle Llandoverian, Raynales Formation, Wallington Member. United States, New York

Eomyelodactylus sp. Eckert and Brett, 2001, p. 7, Fig. 1, no. G.
Glyptocrinus plumosus Hall, 1852. Eckert and Brett, 2001, p. 7.
Silurian, middle Llandoverian, Reynales Limestone. United States, New York

EPALXYOCRINUS Sisova, 1960. *Nomen nudum*
Sisova, 1960, p. 58. Webster, 1986, p. 351. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 1 Mississippian, Viséan - Namurian
Mississippian, Viséan - Namurian. Russia

Epalxyocrinus asymmetricus Sisova, 1960, p. 58 (*nomen nudum*). Webster, 1973, p. 292. Yeltyschewa and Polyarnaya, 1975, p. 206, Pl. 95, fig. 10. Webster, 1986, p. 352.
Mississippian, Viséan - Namurian, Ladenin Horizon. Russia, southern Urals
Mississippian, Viséan – Namurian. Kazakhstan

Epalxyocrinus asymmetricus var. *spina* Sisova, 1960, p. 58 (*nomen nudum*). Webster, 1973, p. 292.
Mississippian, Viséan - Namurian. Kazakhstan

Eqiasarowicrinus eqiasarowi (Yeltyschewa, 1960) = *Egiasarowicrinus egiasarowi*

ERISOCRINUS Meek and Worthen, 1865.
Recognized number of named columnal species: 2 species. 1 Pennsylvanian, uncertain; 1 Periam, Dzhulfian
Permian, early Dzhulfiian. Russia
Pennsylvanian, Missourian or Virgilian. United States

Erisocrinus araxensis Yakovlev, 1933. Stukalina, 1999a, p. 19, Pl. 2, figs. 1-4.
Stukalina,
1999b, p. 140, Pl. 2, figs. 1-4.
Permian, early Dzhulfian. Russia, Transcaucasia

Erisocrinus typus Meek and Worthen, 1865. Woodruff, 1906, p. 264, Pl. 7, figs. 3-4, 8-9.
Pennsylvanian, Missourian or Virgilian (Upper Coal Measures). United States, Nebraska

EUCALYPTOCRINITES Goldfuss, 1831.
Recognized number of named columnal species: 6 species. 5 Silurian, 2 Wenlockian, 2 Niagaran, 1 Ludlovian; 1 Devonian uncertain
Silurian, Llandoverian. Canada, Quebec
Silurian, Wenlockian, Niagaran. United states
Silurian, /wemlockian, Ludlovian, Early - Middle Devonian. Russia

Eucalyptocrinites(?) compositus Milicina, 2000a, p. 60, Pl. 9, figs. 8-9. Militcina, 2000b,

p. 66, Pl. 9, figs. 8-9.
Silurian, Ludlovian, Isovskoi Horizon. Russia, east slope Ural Mountains.

Eucalyptocrinites crassus (Hall, 1863). Brett, 1981b, p. 348, Fig. 3, no. F. Webster, 1988, p. 187. Peters and Bork, 1998, p. 888, Figs. 3-4.
Silurian, Wenlockian, Waldron Shale. United States, Indiana

Eucalyptocrinites holdfast. Siemann-Gartmann, 1983, p. 56, Fig. 2. Webster, 1988, p. 187.
Silurian, Wenlockian, Waldron Shale. United States, Indiana

Eucalyptocrinites? ligatus (Quenstedt, 1876). Milicina, 1977a, p. 141, Pl. 57, fig. 2. Webster, 1986, p. 352.
Early Devonian, Sarainin Horizon, Toshem Horizon. Russia, Ural Mountains

Eucalyptocrinites ovalis (Hall, 1847). Ubaghs *in* Moore and Teichert, 1978, p. T88, Fig. 64, no. 2. Webster, 1986, p. 352. Fearnhead, 2008, p. 51, Fig. 3, no. D.
Silurian, middle Niagaran. North America

Eucalyptocrinites cf. *rosaceus* Goldfuss, 1826. Yeltyschewa and Dubatolova, 1961, p. 553, Pl. D-87, Fig. 2. Webster, 1973, p. 292.
Devonian, Eifelian. Russia, Salair

Eucalyptocrinites? shelbyensis Moore and Jeffords, 1968, p. 46, Pl. 5, fig. 3. Webster, 1973, p. 292.
Silurian, Niagaran, Waldron Shale. United States, Indiana

Eucalyptocrinites(?) subligatus Milicina, 2000a, p. 59, Pl. 9, figs. 5-7. Milicina, 2000b, p. 64, Pl. 9, figs. 5-7.
Silurian, Wenlockian, Elkinsky Horizon. Russia, east slope Ural Mountians

Eucalyptocrinites-type holdfasts Ausich and Copper, 2010, p. 74, Pl. 15, fig. 2.
Silurian, Llandoverian, Chicotte Formation. Canada, Quebec, Anticosti Island

Eucalyptocrinites spp.
Lowenstam, 1948, Pl. 6, fig. 3.
Silurian, Niagaran, Blue Island Zone. United States, Illinois
Brett, 1984, p. 94, Fig. 4, no. A. Webster, 1988, p. 187.
Silurian, Rochester Shale. United States, New York
Brett, 1985b, p. 828, Fig. 7, no. E. Webster, 1988, p. 187.
Silurian, Gasport Limestone. United States, New York
Seilacher and MacClintock, 2005, p. 229, Figs. 6, nos. A-B, D; 11, nos. A-C; 12, nos.
A-C.
Silurian

Eucalyptocrinites spp., cirrus
Wilson, 1948, p. 158, Pl. 25, fig. 6. Webster, 1977, p. 199 (not *Eucalyptocrinites,*

GDW.)
Silurian, Waldron Shale. United States, Tennessee
Wilson, 1948, p. 158, Pl. 25, fig. 7. Webster, 1977, p. 199.
Silurian, Waldron Shale. United States, Tennessee

Eucalyptocrinites species, root system Wilson, 1948, p. 158, Pl. 25, figs. 4-5. Webster, 1977, p. 199.
Silurian, Waldron Shale. United States, Tennessee

Eucalyptocrinites species, stem Wilson, 1948, p. 158, Pl. 25, fig. 3. Webster, 1977, p. 199.
Silurian, Waldron Shale. United States, Tennessee

EUCLADOCRINUS Meek, 1872.
Riddle, 1989, p. 893, Fig. 1, nos. 5-6 (model). Webster, 1993, p. 155.
Recognized number of named columnal species: 2 Mississippian, Viséan species
Mississippian, Viséan (Osagean). United States

Eucladocrinus? kentuckiensis Moore and Jeffords, 1968, p. 42, Pl. 4, fig. 7. Webster, 1973, p. 292.
Mississippian, Viséan (Osagean), Borden Group; Burlington Limestone. United States, Tennessee, Indiana, Iowa

Eucladocrinus? springeri Moore and Jeffords, 1968, p. 42, Pl. 4, fig. 1. Webster, 1973, p. 292.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa

Eucladocrinus spp.
Moore, 1939b, p. 195, Fig. 6, no. 2.
Mississippian, Viséan (Osagean), Burlington-Keokuk transition beds. United States, Iowa
Moore, 1939b, p. 195, Fig. 6, no. 11.
Mississippian, Viséan (Osagean), upper part of Burlington Limestone. United States, Iowa

EUGENIACRINITES Miller, 1821.
Middle Jurassic - Lower Cretaceous. Europe; Russia

Eugeniacrinites sp. Webster, 1973, p. 292.
Eugeniacrinus sp. Sangil, 1955, p. 253, Fig. 3, no. D. Webster, 1973, p. 292. Diagramatic

Eugeniacrinus sp. Sangil, 1955 = *Eugeniacrinites* sp.

EULONCHEROSTIGMA Moore and Jeffords, 1968. **E. impunitum* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 58. Webster, 1973, p. 293. Jeffords *in* Moore and Teichert, 1978, p. T933.

Recognized number of named columnal species: 1 Mississippian, Viséan species
Mississippian, Viséan (Osagean). United States

**Euloncherostigma impunitum* Moore and Jeffords, 1968, p. 58, Pl. 11, fig. 6. Webster, 1973, p. 293.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

EUMORPHOCRINUS Wright, 1955.
Recognized number of named columnal species: 1 Devonian, Famennian species
Devonian, Famennian. United Kingdom, north Devon

Eumorphocrinus porteri (Whidborne, 1896). Donovan and Ewin, 2010, p. 18, Fig. 1, no. C.
Devonian, Famennian, Pilton Formation. United Kingdom, north Devon

EUPACHYCRINUS Meek and Worthen, 1865.
Recognized number of named columnal species: 1 Pennsylvanian species
Pennsylvanian. United States

Eupachycrinus magister Miller and Gurley, 1890. Woodruff, 1906, p. 264, Pl. 7, fig. 5.
Pennsylvanian (Upper Coal Measures). United States, Nebraska

EURAX Moore and Jeffords, 1968. **E. ethas* Moore and Jeffords, 1968
Moore and Jeffords, 1968, p. 68. Le Menn, 1970a, p. 51. Webster, 1973, p. 293. Webster, 1977, p. 199. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 352. Webster, 1988, p. 187. Webster, 1993, p. 156.
Recognized number of named columnal species: 4 specues, 1 Silurian, Niagaran; 3 Devonian, 1Pragian – Emsian, 1 Emsian, 1 Early Devonian, uncertain
Silurian, Niagaran. United States
Early Devonian. Russia
Devonian, Pragian = Emsian. France
Devonian, Emsian. Algeria

**Eurax ethas* Moore and Jeffords, 1968, p. 68, Pl. 19, figs. 7-10. Webster, 1973, p. 293.
Silurian, Niagaran, Brownsport Formation, Waldron Shale. United States, Tennessee, Indiana

Eurax eugenes Moore and Jeffords, 1968, p. 68, Pl. 19, figs. 1-6. Webster, 1973, p. 293. Milicina, 1977a, p. 145, Pl. 57, fig. 9. Ubaghs *in* Moore and Teichert, 1978, p. T79, Fig. 54, no. 10. Webster, 1986, p. 352.
Silurian, Niagaran - Devonian, Helderbergian, Brownsport Formation, Birdsong Shale. United States, Tennessee
Early Devonian, Vizhaich Horizon, Toshem Horizon. Russia, Ural Mountains;

Eurax marhoumensis Le Menn, 1989, p. 397, Figs. 1-8. Webster, 1993, p. 156.
Devonian, Emsian, Chefar el Ahmar Formation. Algeria

Eurax opercularis Le Menn, 1970a, p. 511, Pl. 7, figs. 4-5. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 314, Pl. 30, fig. 11. Webster, 1977, p. 199. Le Menn, 1985, p. 160, Pl. 35, fig. 12. Webster, 1986, p. 352. Webster, 1988, p. 187.
Devonian, Pragian (late Siegenian) - early Emsian, Faou Graywacke Formation; Montguyon Formation. France, Armorican Massif

Eurax sp. Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 330, Fig. 3, no. C.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia

EUTAXOCRINUS Springer, 1906.
Recognized number of named columnal species: 1 Devonian, Givetian species
Devonian, Givetian. France

Eutaxocrinus ? aff. *kergarvanensis* Le Menn, 1985, p. 102, Pl. 23, figs. 7-13. Webster, 1988, p. 187.
Devonian, Givetian, Kergarvan Formation. France, Armorican Massif

Eutaxocrinus? sp. Gluchowski, 1993a, p. 48, Fig. 7, no. J.
Devonian, Givetian, Laskowa Gora Beds, Szydlowek Beds. Poland

EXACOSIODISCUS Moore and Jeffords, 1968 = *DIMEROCRINITES*

EXAESIODISCUS Moore and Jeffords, 1968. **E. acutus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 73. Webster, 1973, p. 293. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 352. Webster, 1988, p. 187.
Recognized number of named columnal species: 7 species. 1 Ordovician, Katian; 4 Silurian, 1 Llandoverian, 1 Niagaran, 1 Niagaran, Bielskian, 1 Late Silurian uncertain; 2 Devonian, 1 Givetian, 1 Frasnian
Ordovician, Katian, Early, Late Silurian. Russia
Middle – Late Silurian, Devonian, Givetian, Frasnian. Poland
Silurian, Niagaran. United States
Devonian, Emsian. Brazil

**Exaesiodiscus acutus* Moore and Jeffords, 1968, p. 73, Pl. 22, figs. 4-6. Webster, 1973, p. 293.
Silurian, Niagaran, Waldron Shale. United States, Indiana

Exaesiodiscus compositus Gluchowski, 1993a, p. 62, 75, Fig. 13, nos. J-K.
Devonian, late Frasnian, Detrital Beds. Poland

Exaesiodiscus discoideus Yeltyschewa, 1982, p. 170, Pl. 1, figs. 3-6. Webster, 1988, p. 187.
Late Silurian, Baital Suite, Pichishua Layer. Russia, Tuva

Exaesiodiscus kovichticus Kurilenko *in* Kurilenko et al., 2002, p. 97, Pl. 33, figs. 4-7.
Early Silurian, Llandoverian, Omythinsky Suite. Russia, Amazar Basin

Exaesiodiscus minutus Moore and Jeffords, 1968, p. 74, Pl. 22, figs. 7-8. Webster, 1973, p. 293. Gluchowski, 1981b, p. 45, Pl. 1, fig. 9. Webster, 1988, p. 187.
Devonian, Givetian (Erian), Wanakah Shale. United States, New York
Devonian, Givetian, Skaly Beds. Poland

Exaesiodiscus aff. *minutus* Moore and Jeffords, 1968. Scheffler et al., 2006, p. 240, Fig. 6, nos. a-c.
Devonian, Emsian, Maecuru Formation. Brazil, Amazon Basin

Exaesiodiscus molodovensis Yeltyschewa, 1975, p. 128, Pl. 1, figs. 10-12. Webster, 1986, p. 352.
Late Ordovician, Katian, Molodov Horizon. Russia, Podolia

Exaesiodiscus salviensis Le Menn, 1976 = *Pterinocrinus salviensis*

Exaesiodiscus truncatus Moore and Jeffords, 1968, p. 73, Pl. 22, figs. 1-3. Webster, 1973, p. 293. Gluchowski, 1981b, p. 44, Pl. 1, fig. 8. Webster, 1988, p. 187. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 293, Pl. 108, figs. 13-14.
Silurian, Niagaran, Waldron Shale. United States, Indiana
Middle-Late Silurian, Bielskian, Podlasian. Poland

EXCISOCRINUS Stukalina, 1985. **E. excisus* Stukalina, 1985.
Stukalina, 1980b, p. 99 (*nomen nudum*). Stukalina, 1985a, p. 183. Stukalina, 1986, p. 54. Webster, 1986, p. 353. Webster, 1988, p. 187; 1993, p. 156.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Late Ordovician, Sandbian. Kazakhstan

**Excisocrinus excisus* Stukalina, 1985a, p. 183, Pl. 2, figs. 6-9. Stukalina, 1986, p. 54, Pl. 7, figs. 10-13. Stukalina, 1988c, p. 57, Pl. 3, figs. 6-9. Webster, 1988, p. 187. Webster, 1993, p. 156.
Late Ordovician, Sandbian, Anderken Horizon, Sartanmanay Limestone. Southern Kazakhstan

EXEDRODISCUS Moore and Jeffords, 1968. **E. excussus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 74. Webster, 1973, p. 293. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 1 Mississippian, Viséan species
Mississippian, Viséan (Osagean). United States

**Exedrodiscus excussus* Moore and Jeffords, 1968, p. 74, Pl. 23, fig. 9. Webster, 1973, p. 293.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

EXTRAORDINARICRINUS Stukalina, 1999. **Extraordinaricrinus extraordinarius* Stukalina, 1999.
Stukalina, 1999a, p. 22. Stukalina, 1999b, p. 145.
Recognized number of named columnal species: 1 Permian, Dzhulfian species

Late Permian, Dzhulfian. Russia, southern Primorye

**Extraordinaricrinus extraordinarius* Stukalina, 1999a, p. 22, Pl. 3, figs. 1-2. Stukalina, 1999b, p. 145, Pl. 3, figs. 1-2.
Late Permian, Dzhulfian, lower part of Lyudyanzin Horizon. Russia, southern Primorye

FABALIUM Moore and Jeffords, 1968. **F. fabale* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 71. Dubatolova, 1971, p. 85. Webster, 1973, p. 293. Webster, 1977, p. 199. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 2 species. 1 Silurian, Niagaran, 1 Silurian, Niagaran - Early Devonian
Silurian, Niagaran . United States
Silurian, Niagaran - Early Devonian. Russia

Fabalium costatus (Schewtschenko, 1966). Dubatolova, 1971, p. 85. Webster, 1977, p. 199.
Pentagonocyclicus costatus Schewtschenko, 1966, p. 165, Pl. 5, figs. 7-8; Fig. 36. Dubatolova, 1968, p. 152, Pl. 16, fig. 9; Fig. 10. Dubatolova, 1971, p. 85. Webster, 1973, p. 306. Webster, 1977, p. 200. Webster, 1986, p. 379.
Pisocrinus? costatus costatus (Schewtschenko, 1966). Milicina, 1977a, p. 135. Webster, 1986, p. 379.
Late Silurian - Early Devonian, Tiverskian Stage, Shishkat Horizon, Tom-Chum Horizon, lower part of Rekov Beds. Russia, Tien Shan Mountains, Salair

**Fabalium fabale* Moore and Jeffords, 1968, p. 71, Pl. 21, fig. 7. Webster, 1973, p. 293.
Silurian, Niagaran, Brownsport Formation. United States, Tennessee

Fabalium rudocostatum Dubatolova, 1971 = *Asperocrinus echinatus*

Facetocrinidae Stukalina, 1986, p. 96, Fig. 29, nos. 9-10. Stukalina, 1988c, p. 44, Fig. 28, nos. 9-10. Webster, 1993, p. 156.
Early Silurian - Middle Devonian

FACETOCRINUS Stukalina, 1968. **Pentagonopentagonalis facetus* Stukalina, 1961.
Stukalina, 1968c, p. 91. Stukalina, 1970b, p. 81. Stukalina, 1975, p. 143. Stukalina, 1977, p. 200. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 70, 353. Webster, 1988, p. 187. Webster, 1993, p. 156. Ebert, 1994, p. 34. Stukalina 1998, p. 21. Franke, C., 2012, p. 53.
Recognized number of named columnal species: 22 species. 1 late Silurian uncertain; 2 late Silurian, Ludlovian – Early Devonian; 19 Devonian, 1 Pragian; 2 Pragian – Emsian, 1 Emsian, 4 Early Devonian, uncertain; 1 Early – Middle Devonian uncertain, 2 Eifelian, 7 Givetian, 1 Middle Devonain uncertain
Silurian, Ludlovian - Devonian, Givetian. Russia; Kazakhstan; France, Germany

Facetocrinus abditus (Schewtschenko, 1966). Stukalina, 1998, p. 21.

Anthinocrinus abditus Schewtschenko, 1966, p. 151, Pl. 4, fig. 1; Fig. 20. Webster, 1973, p. 277. Stukalina, 1998, p. 21.
Devonian, Givetian, Pandzhrut Horizon. Kazakhstan, Zeravshan Mountains

Facetocrinus acutulus (Dubatolova, 1964). Stukalina, 1998, p. 21.
Anthinocrinus acutulus Dubatolova, 1964, p. 57, Pl. 7, figs. 9-11. Webster, 1973, p. 277. Stukalina, 1998, p. 21.
Early Devonian. Russia, Kuznetz Basin

Facetocrinus ajnasuensis (Stukalina, 1961). Stukalina, 1968c, p. 91. Stukalina, 1970b, p. 81. Stukalina, 1971, p. 194. Webster, 1973, p. 293. Stukalina, 1975, p. 136, Pl.
34, figs. 9-10. Webster, 1977, p. 200. Stukalina, 1986, p. 70, Pl. 15, figs. 10-12; Tab. 5. Webster, 1986, p. 353. Stukalina, 1988c, p. 63, Pl. 11, figs. 30-32; Fig. 31. Stukalina, 1991, p. 180, Fig. 15, nos. d-e. Webster, 1993, p. 156.
Pentagonopentagonalis ajnasuensis Stukalina, 1961, p. 36, Pl. 1, fig. 3. Stukalina, 1968c, p. 91. Webster, 1973, p. 293.
Silurian, late Ludlovian - Devonian boundary layers Ainasu Horizon; Early Devonian, Kokbaital Horizon; lower part of Pribalkhash Horizon. Kazakhstan

Facetocrinus alveatus (Schewtschenko, 1966).
Vasocrinus alveatus Schewtschenko, 1966, p. 132, Pl. 4, figs. 8, 15; Fig. 3. Webster, 1973, p. 323.
Facetocrinus alveolatus (Schewtschenko, 1966). Stukalina, 1998, p. 21 (misspelling of *Facetocrinus alveatus*).
Vasocrinus alveolatus Schewtschenko, 1966. Stukalina, 1998, p. 21 (misspelling of *Vasocrinus alveatus*).
Devonian, Givetian, Pandzhrut Horizon. Kazakhstan, Tien Shan Mountains

Facetocrinus conspicuus (Dubatolova, 1964). Stukalina, 1968c, p. 91. Stukalina, 1970b, p. 81. Webster, 1973, p. 293. Webster, 1977, p. 200. Stukalina, 1998, p. 21.
Athinocrinus conspicuus Dubatolova, 1964, p. 58, Pl. 7, fig. 12. Stukalina, 1968c, p. 91. Webster, 1973, p. 293.
Early Devonian. Russia, Kuznetz Basin

Facetocrinus crozonensis Le Menn, 1985, p. 114, Pl. 25, figs. 14-17. Webster, 1988, p. 188. Gluchowski, 1993b, p. 165, Pl. 1, fig. 4.
Devonian, late Emsian, Fret Formation. France, Armorican Massif
Devonian, late Emsian, Bukowa Gora Shales Formation. Poland

**Facetocrinus facetus* (Stukalina, 1961). Stukalina, 1968c, p. 91. Stukalina, 1970b, p. 81. Webster, 1973, p. 293. Webster, 1977, p. 200. Stukalina, 1991, p. 178, Fig. 15, no. a.
Pentagonopentagonalis facetus Stukalina, 1961, p. 35, Pl. 1, fig. 7. Stukalina, 1965b, p. 135, Pl. 2, fig. 11. Stukalina, 1968c, p. 91. Webster, 1973, p. 293.
Late Silurian, late Ludlovian - Early Devonian, Karaespin Horizon; Pribalkhash Horizon. Kazakhstan

Facetocrinus menakovae Schewtschenko, 1989, p. 89, Pl. 1, fig. 17; Fig. 2, no. V. Webster, 1993, p. 156.
Middle Devonian, late Eifelian. Kazakhstan, Tien Shan, Zeravshan- Gissar Mountains

Facetocrinus minusculus Kurilenko *in* Kurilenko et al., 2002, p. 157, Pl. 58, figs. 20-21.
Devonian, Pragian, Bolsheneversky Suite. Vostochnoe Zabaikal

Facetocrinus minutus Rakhmonov and Stukalina, 2000, p. 3, Pl. 2, fig. 3 (nomen nudum, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

Facetocrinus paucus Rakhmonov and Stukalina, 2000, p. 3, Pl. 2, fig. 4 (nomen nudum, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

Facetocrinus pentagonus Stukalina, 1977c, p. 154, Pl. 31, figs. 6-7. Stukalina, 1986, p. 70, Pl. 15, figs. 17-18. Tab. 5. Webster, 1986, p. 353. Stukalina, 1988c, p. 62, Pl. 11, fig. 12; Fig. 31. Stukalina, 1991, p. 179, Fig. 15, no. v. Webster, 1993, p. 156. Sorokoletov, 1996, p. 155, Fig. 2, no. b
Early Devonian, upper part of Pribalkhash Horizon, Sardzhal Horizon; Kazakh Horizon. Kazakhstan

Facetocrinus quelernensis Le Menn, 1985, p. 116, Pl. 25, figs. 18-23. Webster, 1988, p. 188. Ebert, 1994, p. 34, Pls. 1, figs. 23-24; 2, figs. 1-3, 5; Figs. 30, 63, no. b; 65, no. a; 73-74.
Devonian, Eifelian, Quelern Formation. France, Armorican Massif
Devonian, Eifelian, Mühlenberg Formation, Unnenberg Formation. Germany

Facetocrinus quinqueangularis (Dubatolova, 1964). Stukalina, 1970b, p. 81. Webster, 1973, p. 294. Webster, 1977, p. 200. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, figs. 18-19. Stukalina, 1991, p. 180, Fig. 15, no. g. Gluchowski, 1993a, p. 50, Fig. 9, no. A. Stukalina, 1998, p. 21. (**Note.** Stukalina, 1998, p. 21, places *Anthinocrinus quinqueangualris* in *Facetocrinus* and then p. 22 places it in *Blandicrinus*. GDW, 2010)
Anthinocrinus quinqueangularis Dubatolova, 1964, p. 59, Pl. 7, figs. 16-19. Stukalina, 1968c, p. 91. Webster, 1973, p. 294.
Facetocrinus quinqulangularis (Dubatolova, 1964). Stukalina, 1968c, p. 91 (sic).
Early - Middle Devonian, Ainasu and Kokbaital Horizons; Givetian, Laskowa Gora Beds; Crinoid-Coral level; Jazwica Member. Russia, Kuznetz Basin; Poland
Early - Middle Devonian, Ainasu and Kokbaital Horizons. Kazakhstan

Facetocrinus quinqueangularis Racki et al., 1985 = *Ononicrinus gracilis*

Facetocrinus quinqueangulatus Stukalina, 1998, p. 21, Fig. 4, no. 3.

Late Silurian, Malinovets Horizon, Grintchuk Beds. Russia, Russian Platform

Facetocrinus quinquespinosus (Stukalina, 1961). Stukalina, 1968c, p. 91. Stukalina, 1970b, p. 81. Webster, 1973, p. 294. Stukalina, 1975, p. 136, Pl. 34, fig. 14. Webster, 1977, p. 200. Stukalina, 1986, p. 70, Pl. 15, fig. 16. Webster, 1986, p. 353. Stukalina, 1988c, p. 63, Pl. 11, fig. 29. Webster, 1993, p. 156.
Pentagonopentagonalis quinquespinosus Stukalina, 1961, p. 35, Pl. 2, fig. 5. Stukalina, 1965b, p. 135, Pl. 2, figs. 17-19. Stukalina, 1968c, p. 91. Webster, 1973, p. 294.
Early Devonian, Kokbaital Horizon. Central Kazakhstan

Facetocrinus quinqulangularis (Dubatolova, 1964) = *Facetocrinus quinqueangularis*
Note. Stukalina, 1998, p. 21 places *Anthinocrinus quinqueangualris* in *Facetocrinus* and then p. 22 places it in *Blandicrinus*. GDW)

Facetocrinus sangulus (Schewtschenko, 1966). Stukalina, 1998, p. 21.
Anthinocrinus sangulus Schewtschenko, 1966, p. 152, Pl. 4, fig. 16. Dubatolova, 1971, p. 37, Pl. 4, fig. 1; Fig. 10. Webster, 1973, p. 278. Milicina, 1977a, p. 142, Pl. 59, fig. 3. Webster, 1977, p. 186. Gluchowski, 1981b, p. 38, Pl. 4, fig. 3. Webster, 1986, p. 328. Webster, 1988, p. 171. Stukalina, 1998, p. 21.
Devonian, Givetian, Pandzhrut Horizon; Vizhaich Horizon; Toshem Horizon; Skaly Beds. Russia, Zeravshan Mountains, Northeastern Salair, Ural Mountains, Tien Shan Mountains; Poland

Facetocrinus stellatus (Yeltyschewa and Sisova, 1973). Stukalina, 1975, p. 143, Pl. 34, figs. 11-13. Stukalina, 1978c, p. 54, Pl. 13, fig. 8. Stukalina, 1986, p. 70, Pl. 15, figs. 13-15; Tab. 5. Webster, 1986, p. 353. Stukalina, 1988c, p. 63, Pl. 11, figs. 26-28; Fig. 31. Stukalina, 1991, p. 178, Fig. 15, no. b. Webster, 1993, p. 156. Kurilenko *in* Kurilenko et al., 2002, p. 156, Pl. 55, figs. 16-17.
Early Devonian, Pribalkhash Horizon; Kokbaital Horizon. Kazakhstan

Facetocrinus subisodentatus (Dubatolova, 1971). Stukalina, 1998, p. 21.
Anthinocrinus subisodentatus Dubatolova, 1971, p. 39, Pl. 4, figs. 14-15; Fig. 12. Webster, 1977, p. 186. Stukalina, 1998, p. 21.
Middle Devonian. Russia, Altai Mountains

Facetocrinus terminalis (Schewtschenko, 1966). Stukalina, 1998, p. 21.
Anthinocrinus terminalis Schewtschenko, 1966, p. 153, Pl. 4, fig. 2; Fig. 22. Webster, 1973, p. 279. Stukalina, 1998, p. 21.
Devonian, Givetian, Pandzhrut Horizon. Kazakhstan, Zeravshan Mountains, Tien Shan Mountains

Facetocrinus tuberculifer (Schewtschenko, 1966). Stukalina, 1998, p. 21.
Vasocrinus tuberculifer Schewtschenko, 1966, p. 132, Pl. 4, figs. 3, 9; Fig. 2. Webster, 1973, p. 323. Stukalina, 1998, p. 21.
Devonian, Givetian, Pandzhrut Horizon. Kazakhstan, Tien Shan Mountains

Facetocrinus vivianae Le Menn, 1985, p. 117, Pl. 26, figs. 1-7. Webster, 1988, p. 188.
Devonian, Givetian, Kergarvan Formation. France, Armorican Massif

Facetocrinus sp. 1 Eberg, 1994, p. 34, Pl. 2, figs. 6, 10; Figs. 71, 73-74.
Devonian, late Emsian - early Eifelian, Stöppel Formation; *Orthocrinus* Formation; Hobrack Formation; boundary *Orthocrinus*/Stöppel Formation. Germany

Facetocrinus sp. 2 Eberg, 1994, p. 35, Figs. 31, 62, no. c; 71, 73-74.
Devonian, early Eifelian, Hobräck Formation, Stöppel Formation. Germany

Facetocrinus sp. Franke, C., 2012, p. 53, Pl. 25.
Devonian, Emsian, Mulden group. Germany, Rhenischen Schiefergebirge; Luxemburg

Family, genus, and species unknown, species E Webster and Lane, 1967, p. 31, Pl. 2, fig. 11 (root holdfast). Webster, 1973, p. 328.
Permian, Wolfcampian, upper part of Bird Spring Formation. United States, Nevada

Family Platycrinitidae--stem segment Arendt and Hecker, 1964, p. 98, Pl. 15, fig. 8. Webster, 1973, p. 328.
Middle Carboniferous. Russia, Moscow Basin

FASCICRINUS Stukalina, 1968. **F. flabellatus* Yeltyschewa and Stukalina *in* Stukalina, 1968.
Stukalina, 1968c, p. 87. Stukalina, 1970b, p. 78. Webster, 1973, p. 294. Webster, 1977, p. 200. Jeffords *in* Moore and Teichert, 1978, p. T933. Stukalina, 1986, p. 54. Donovan, 1986d, p. 54. Webster, 1986, p. 353. Webster, 1988, p. 188. Webster, 1993, p. 157.
Recognized number of named columnal species: 16 species. 13 Ordovician, ! Darriwilian,, 6 Sandbian, 6 Katian; 3 Silurian, Llandoverian
Ordovician, Darriwilian – Katian (Caradocian – Ashgillian). Kazakhstan; Russia
Ordovician, Katian. United Kingdom, Scotland
Silurian, Llandoverian. Uzbekistan; Russia

Fascicrinus concavus Stukalina, 1980b, p. 100, Pl. 22, figs. 6-10; Fig. 16, no. 2. Stukalina, 1986, p. 27, 54, Pls. 6, fig. 10; 7, figs. 1-3; Fig. 9, no. 2. Webster, 1986, p. 353. Stukalina, 1988c, p. 56, Pl. 2, figs. 10-12. Webster, 1993, p. 157.
Ordovician, Sandbian, Anderken Horizon, Anderken Limestone. Southern Kazakhstan

Fascicrinus costatus Stukalina, 1978a, p. 159, Pl. 35, figs. 8-9. Webster, 1986, p. 353. Rakhmonov, 2008, p. 128, Pl. 108, figs. 5-8.
Silurian, Llandovery, Minkuchar Beds. Uzbekistan, Zeravshan Range

Fascicrinus fasciculus Stukalina, 1977. Stukalina, 1980b, p. 99, Pl. 22, figs. 3-5; Fig. 16, no. 1. Stukalina, 1986, p. 54, Pl. 7, fig. 4. Webster, 1986, p. 353. Stukalina, 1988c, p. 56, Pl. 2, figs. 7-9. Webster, 1993, p. 157.

Ordovician, Sandbian, Anderken Horizon, Anderken Limestone. Southern Kazakhstan

**Fascicrinus flabellatus* Yeltyschewa and Stukalina *in* Stukalina, 1968c, p. 87, Fig. 2, no. zh. Stukalina, 1970b, p. 78, Fig. 2, no. g. Webster, 1973, p. 294. Webster, 1977, p. 200. Stukalina, 1986, p. 54, Pl. 5, fig. 13. Stukalina, 1988c, p. 56, Pl. 2, fig. 13. Webster, 1993, p. 157.
Ordovician, Katian (Caradocian), Anderken Horizon. Kazakhstan

Fascicrinus inflatus Stukalina, 1980b, p. 101, Pl. 22, figs. 14-15; Fig. 16, no. 4. Stukalina, 1986, p. 54, Fig. 9, no. 5. Webster, 1986, p. 353. Webster, 1993, p. 157.
Ordovician, Sandbian, Anderken Horizon, Biogermne Limestone. Kazakhstan

Fascicrinus iodes Milicina, 1987, p. 17, *nomen nudum,* no description or illustrations. Webster, 1993, p. 157.
Ordovician, Katian (Ashgillian), Rassokhin Horizon, Palnikshor Stratum. Russia, Northern Urals

Fascicrinus keisleyensis Donovan, 1986d, p. 55, Pl. 4, fig. 6; Fig. 17, nos. I-J. Webster, 1993, p. 157.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Fascicrinus kulensis Rakhmonov, 2008, p. 129, Pl. 108, figs. 9-10.
Silurian, Llandovery, Minkuchar Beds. Uzbekistan, Zeravshan Range

Fascicrinus lentiformis Stukalina, 1980b, p. 100, Pl. 22, figs. 11-13; Fig. 16, no. 3. Webster, 1986, p. 354.
Ordovician, Sandbian, Anderken Horizon, Akkol Limestone. Kazakhstan

Fascicrinus ordinarius Stukalina, 1979a, p. 139, Pl. 30, fig. 4; Fig. 33, no. b. Stukalina, 1984, p. 98, Pl. 37, fig. 2. Webster, 1986, p. 354. Webster, 1988, p. 188.
Ordovician, Darriwilian, Mangazei Horizon, Baksan Horizon. Russia, Siberian Platform

Fascicrinus ophioideus Milicina, 1973, p. 23, Pl. 2, figs. 5-7; Fig. 5. Webster, 1993, p. 157.
Silurian, Llandoverian. Russia, Ural Mountains

Fascicrinus stolbovensis Stukalina, 1979a, p. 139, Pl. 30, fig. 5; Fig. 33, no. v. Webster, 1986, p. 354.
Ordovician, Sandbian, Dolbor Horizon. Russia, Central Siberia

Fascicrinus stukalinae Donovan, 1986d, p. 56, Pl. 6, figs. 1, 8, 12. Webster, 1993, p. 157.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom, Scotland

Fascicrinus subflabellatus Stukalina *in* Zania, 1972, p. 289, Pl. 60, figs. 7-8. Webster, 1977, p. 200.
Ordovician, Katian (Ashgillian). Kazakhstan, Chingiz, Tarbagatai

Fascicrinus turgocolumnus Donovan, 1986d, p. 56, Pl. 6, figs. 4, 11. Webster, 1993, p. 157.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom, Scotland

Fascicrinus umbonatus Stukalina, 1985a, p. 181, Pl. 1, figs. 11-15. Stukalina, 1986, p. 54, Pls. 5, figs. 15-17; 6, figs. 1-5. Stukalina, 1988c, p. 56, Pl. 2, figs. 14-16. Webster, 1988, p. 188. Webster, 1993, p. 157.
Ordovician, Sandbian, Anderken Horizon, Sartanmanay Limestone. Southern Kazakhstan

Fascicrinus sp. Stukalina, 1986, p. 54, Pl. 6, fig. 11. Webster, 1993, p. 157.
Ordovician, Sandbian, Anderken Horizon. Southern Kazakhstan

FASCICULARICRINUS Stukalina, 1982. **F. fascicularis* Stukalina, 1982.
Stukalina, 1982b, p. 158. Stukalina, 1986, p. 84. Webster, 1988, p. 188. Webster, 1993, p. 157.
Recognized number of named columnal species: 1 Silurian, Llandoverian species
Silurian, Llandoverian. Russia, Siberian Platform

**Fascicularicrinus facicularis* Stukalina, 1982b, p. 158, Pl. 24, Fig. 9; Fig. 28, nos. n, r. Webster, 1988, p. 188. Stukalina, 2000, p. 58, Pl. 18, fig. 8 (non fig. 7 as given p. 58); Fig. 12, no. 2.
Silurian, Llandoverian, Ugiyuk Suite, Khaastyr Horizon. Russia, Siberian Platform

FASCICULOCRINUS Stukalina, 1967.
Stukalina, 1967a, p. 202 (*nomen nudum*). Jeffords *in* Moore and Teichert, 1978, p. T936.

Fasciculocrinus flabellatus Stukalina, 1967a, p. 205 (*nomen nudum*).

Fasciculocrinus subflabellatus Stukalina, 1967a, p. 202 (*nomen nudum*).

FERULACRINUS Stukalina, 1978. **F. rigidus* Stukalina, 1978.
Stukalina, 1978a, p. 162. Stukalina, 1986, p. 84. Webster, 1986, p. 354. Webster, 1993, p. 158.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, early Sandbian. Uzbekistan, Tien Shan

**Ferulacrinus rigidus* Stukalina, 1978a, p. 162, Pl. 35, fig. 18. Webster, 1986, p. 354. Rakhmonov and Ghobadi Pour, 2008, p. 60, Pl. 107, figs. 24-25.
Ordovician, early Sandbian (early Caradocian), Obikalon Beds. Uzbekistan, Zeravshan Range

FIBRACRINUS Tujutjan *in* Stukalina and Tujutjan, 1970. **F. fibratus* Tujutjan *in* Stukalina and Tujutjan, 1970.
Tujutjan *in* Stukalina and Tujutjan, 1970, p. 62. Webster, 1977, p. 200. Jeffords *in* Moore and Teichert, 1978, p. T933. Stukalina, 1986, p. 53. Webster, 1993, p. 158.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Southern Kazkhstan

**Fibracrinus fibratus* Tujutjan *in* Stukalina and Tujutjan, 1970, p. 62, Figs. 1, no. 2; 6. Webster, 1977, p. 201. Stukalina, 1986, p. 53, Pl. 5, fig. 13. Stukalina, 1988c, p. 56, Pl. 2, fig. 19. Webster, 1993, p. 158.
Ordovician, Sandbian, Anderken Horizon, Anderken Limestone. Southern Kazakhstan

Figured columnals of various unknown crinoids from the Twin Cities area Brower and Veinus, 1978, p. 383, Pl. 24, figs. 9-14. Webster, 1986, p. 398.
Ordovician, Katian, Decorah Shale. United States, Minnesota

Five-fold arrangement of ligament pits Donovan, 1985e, p. 21, Fig. 2, no. 9. Webster, 1988, p. 188.
Ordovician, Dapingian (Arenigian). United Kingdom

Five-part columnal, unknown echinoderm Sprinkle, 1971, p. D94, Fig. 1, nos. 83-84. Webster, 1977, p. 229.
Ordovician, Darriwilian, Antelope Valley Limestone. United States, Nevada

Flanged columnal of unknown origin Sprinkle, 1971, p. D94, Fig. 1, no. 80. Webster, 1977, p. 229.
Ordovician, Darriwilian, Antelope Valley Limestone. United States, Nevada

FLECKENBERGOCRINUS Ebert, 1994. **F. periradialis* Ebert, 1994.
Ebert, 1994, p. 46.
Recognized number of named columnal species: 2 Devonian species, 1 Emsian – Eifelian, 1 Givetian
Devonian, late Emsian – early Eifelian. Germany
/Devonian, Givetian, Czech Republic

Fleckenbergocrinus moravicus Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 329, Pl. 1, fig. 11-14, 16-17.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia

**Fleckenbergocrinus periradialis* Ebert, 1994, p. 46, Pl. 3, fig. 9; Figs. 44-45, 59, no. b; 71-73.
Devonian, late Emsian - earliest Eifelian, Hobräck Formation; *Orthocrinus* Formation; upper part of *Speciosus* Formation. Germany

Flexicrinidae Stukalina, 1986, p. 92, Fig. 26, no. 5. Stukalina, 1988c, p. 39, Fig. 22, no. 5. Webster, 1993, p. 158.

Middle Ordovician, Kazakhstan

FLEXICRINUS Stukalina and Tujutjan, 1970. **F. flexus* Stukalina and Tujutjan, 1970.
Stukalina and Tujutjan, 1970, p. 59. Webster, 1977, p. 201. Jeffords *in* Moore and Teichert, 1978, p. T933. Stukalina, 1986, p. 57. Webster, 1993, p. 158.
Recognized number of named columnal species: 1 Ordovician, Sandbian – Katian species
Ordovician, Sandbian - Katian. Kazakhstan

**Flexicrinus flexus* Stukalina and Tujutjan, 1970, p. 60, Figs. 1, nos. 4-5; 3. Webster, 1977, p. 201. Stukalina, 1986, p. 57, Pl. 10, figs. 3-5; Fig. 12, no. 5 (not fig. 8 as given in figure explanation). Stukalina, 1988c, p. 57, Pl. 4, figs. 4-6; Fig. 24, no. 4. Webster, 1993, p. 158.
Ordovician, Sandbian - Katian. Anderken Horizon analog?, Koryk Limestone. Central Kazakhstan

FLORICOLUMNUS Donovan and Clark, 1992. **F. girvanensis* Donovan and Clark, 1992.
Donovan and Clark, 1992, p. 28. Donovan et al., 2012, p. 125.
Recognized number of named columnal species: 2 Silurian, Llandoverian species
Silurian, Llandoverian. United Kingdom, Scotland, Wales

**Floricolumnus girvanensis* Donovan and Clark, 1992, p. 29, Pl. 1, figs. 1-2, 5-6; Figs. 2-4. Hope, 2004, p. 25, unnum. Fig. p. 35, Fig. 3. Donovan et al., 2008, p. 35, Fig. 3, no. A. Donovan et al., 2012, p. 125, Pl. 38, Fig. 2; Fig. 99.
Silurian, Llandoverian Early (Aeronian), Newlands Farm Formation. United Kingdom. Scotland

Floricolumnus sp. cf. *F. girvanensis* Donovan and Clark, 1992, p. 32, Pl. 1, figs. 3-4; Fig. 6. Donovan, 1993a, p. 12, Fig. 9.
Silurian, Llandoverian, Gasworks Mudstone. United Kingdom, Wales

Floricolumnus lefewi *Donovan in Donovan et al., 2012, p. 227, Fig. 100.*
Silurian, Llandoverian,{ Rhuddanian} Top of Haverford Mudstone formation or Possibly low in Gasworks Sandstone Formation. United Kingdom, Wales

FLORICRINUS Stukalina, 1977. **F. proteus* Stukalina, 1977.
Stukalina, 1979c, p. 152. Webster, 1986, p. 354. Webster, 1993, p. 158. Ebert, 1994,
p. 32. Stukalina, 1998, p. 18.
Recognized number of named columnal species: 6 Devonian species, 1 Early Devonian unceertain, 2 Eifelian, 1 Givetian, 2 Middle Devonian uncertain
Early - Middle Devonian. Kazakhstan; Russia

Floricrinus floreus (Yeltyschewa and Dubatolova, 1967) = *Ononicrinus gracilis*

Floricrinus floreus gracilis (Yeltyschewa and Dubatolova, 1961) = *Ononicrinus gracilis*

Floricrinus gracilis (Yeltyschewa and Dubatolova, 1961) = *Ononicrinus gracilis*

Floricrinus grandilobatus (Dubatolova, 1971). Stukalina, 1998, p. 18, Fig. 2, no. 7.
Anthinocrinus grandilobatus Dubatolova, 1971, p. 40, Pl. 4, figs. 6-8; Fig. 13. Webster, 1977, p. 185. Stukaliina, 1998, p. 18.
Middle Devonian. Russia, Altai Mountains

Floricrinus nanus Kiurilenko *in* Kulkob et al., 2009, p. 83, Pl. 3, figs. 8, 13-18.
Devonian, Givetian, upper part of Kukui Suite. Russia, environs Kuria, environs Novofirsovo

Floricrinus primaevus (Sisova *in* Dubatolova *et al.*, 1967). Stukalina, 1991, p. 176, Fig. 14, no. e. Ebert, 1994, p. 32, Pl. 1, fig. 17 (not fig. 1 as given p. 32); Fig. 28 (not Fig. 15-5.2 as given p. 32); Figs. 73-74. Sorokoletov, 1996, p. 155, Fig. 2, no. a. Stukalina, 1998, p. 18, Fig. 2, no. 3.
Devonian, early Eifelian, Hobrack Formation; Sardzhal and Kazakh Horizons. Germany; Kazakhstan

**Floricrinus proteus* Stukalina, 1977c, p. 152, Pl. 31, fig. 5. Stukalina, 1986, p. 69, Pl. 15, fig. 22; Tab. 5. Webster, 1986, p. 354. Stukalina, 1988c, p. 63, Pl. 11, fig. 14; Fig. 31. Stukalina, 1991, p. 175, Fig. 14, no. zh. Webster, 1993, p. 158. Stukalina, 1998, p. 18, Fig. 2, no. 4.
Early Devonian, Sardzhal Horizon; Kazakh Horizon. Kazakhstan

Floricrinus rotundus (Yeltyschewa and Sisova, 1973). Stukalina, 1991, p. 176, Fig. 14, no. z. Stukalina, 1998, p. 18, Figs. 2, no. 5.
Middle Devonian, Besobin, Aidarlin and Mai Horizons. Kazakhstan

Floricrinus sogdianus Schewtschenko, 1989, p. 88, Pl. 1, fig. 18, Fig. 2, no. A. Webster, 1993, p. 158. Stukalian, 1998, p. 118, Fig. 2, no. 6.
Devonian, late Eifelian. Kazakhstan, Tien Shan, Zeravshan Mountains

Floricrinus spp.
Gluchowski, 1993a, p. 50, Fig. 8, no. K.
Devonian, Frasnian, lower part of Wietrznia Beds; Detrital Beds. Poland
Gluchowski, Casier, and Olempska, 2006, p. 699, Fig. 3, no. F.
Devonian, early middle Frasnian, middle and upper parts of Wietrznia Beds. Poland

FLORICYCLUS Moore and Jeffords, 1968. **F. hebes* Moore and Jeffords, 1968. Moore and Jeffords, 1968, p. 76. Webster, 1973, p. 294. Simon and Geizer, 1976, p. 102. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 354. Webster, 1988, p. 188. Chernova and Stukalina, 1989, p. 121. Webster, 1993, p. 158. Donovan et al., 2012, p. 220.
ACBASTAUCRINUS Sisova, 1979, p. 167. **A. acbastauensis* Sisova, 1979. Webster, 1988, p. 169. Webster, 1993, p. 127.
ACBASTAURCRINUS Sisova, 1979. Webster, 1986, p. 325.

PLUMMERANTERICRINUS Sisova, 1983, p. 270. **P. paratus* Sisova, l983, p. 271, Pl. 1, figs. 13-14. Webster, 1988, p. 208. Webster, 1993, p. 184.
Recognized number of named columnal species: 21 species.3 Devonian, Famennian; 1 Devonian, Famennian – Mississippian, Tournaisian; 7 Mississippian, 1 tournaisian, 2 Viséan, 2 Viséan – Serpukhovian, 2 Serpukhovian; 3 Late Early – Early Middle Carboniferous; 7 Pennsylvanian, 1 Bashkirian, 2 Moscovian, 3 Desmoinesian, 1 Virgilian
Devonian, Famennian – Mississippian, Serpukhovian, Pennsylvanian, Moscovian. Kazakhstan; Russia
Mississippian, Viséan. Poland
Mississippian, Viséan – Serpukhovian. Mongolia
Middle Carboniferous. China
Pennsylvanian, Bashkirian. Algeria
Pennsylvanian, Desmoinesian, Virgilian. United States

Floricyclus acbastauensis (Sisova, 1979). Chernova and Stukalina, 1989, p. 124. Webster, 1993, p. 159.
Acbastaucrinus acbastauensis Sisova, 1979, p. 167, Pl. 1, figs. 1-5. Webster, 1986, p. 325. Chernova and Stukalina, 1989, p. 124. Webster, 1993, p. 159.
Acbastaucrinus undosus Sisova, 1979. Chernova and Stukalina, 1989, p. 124. Webster, 1993, p. 159.
Devonian, Famennian - Mississippian, Tournaisian, Sultsiferov Horizon; Kassin Horizon, lower part of Rusakov Horizon. Russia, Kazakhstan, Central Asia

Floricyclus affectatus (Sisova, 1988). New Combination
Acbastaucrinus affectatus Sisova, 1988, p. 149, Pl. 1, figs. 5a-5b. Webster, 1993, p. 127. Gluchowski, 2002, p. 323, Fig. 3, nos. F-K.
Devonian, Famennian, *Pa. crepida* to *S. praesulcata* Biozones, Sultsiferovi Horizon, Aidagarlin Layer. Russia, Kazakhstan; Poland

Floricyclus angustimargo Moore and Jeffords, 1968, p. 77, Pl. 24, figs. 6-7. Webster, 1973, p. 294. Chernova and Stukalina, 1989, p. 121. Webster, 1993, p. 159. Webster and Houck, 1998, p. 1069, Fig. 5.13-5.14.
Pennsylvanian, Desmoinesian, Minturn Formation. United States, Colorado

Floricyclus cf. *F. angustimargo* Moore and Jeffords, 1968. Webster et al., 2004, p. 62, Pl. 17, figs. 19-20.
Pennsylvanian, Bashkirian, lower part of Hassi Kerma Formation. Algeria

Floricyclus bobrovi Stukalina *in* Chernova and Stukalina, 1989, p. 121, *nomen nudum.*

Floricyclus bobrovi Stukalina, 1997c, p. 39, Fig. 1, nos. a-g; 2, nos. a-b. Stukalina, 1997d, p. 605, Figs. 1, nos. a-e (not nos. f-g as given p. 605); 2, nos. a-b.
Mississippian, Viséan-Serpukhovian. Mongolia

Floricyclus candidus Sisova, 1983, p. 268, Pl. 1, figs. 10-11. Webster, 1988, p. 188.
Mississippian, Serpukhovian, Beleutin Horizon. Kazakhstan

Floricyclus expressus (Dubatolova and Shao, 1959). Chernova and Stukalina, 1989, p. 125. Webster, 1993, p. 159.

Pentagonocyclicus expressus Dubatolova and Shao, 1959, p. 43, Pl. 1, fig. 4. Xu, Shan, and Zhang, 1962, p. 120, Pl. 1, figs. 14a-b. Webster, 1973, p. 307. Chernova and Stukalina, 1989, p. 125. Webster, 1993, p. 159.

Late Early - early Middle Carboniferous, Huaitoutala Formation. China, Qinghai, Kwangtung Province

Floricyclius granulosus Moore and Jeffords, 1968, p. 77, Pls. 24, figs. 1-3; 26, figs. 9-16. Moore *et al.*, 1968a, p. 16, Fig. 3, no. 3. Webster, 1973, p. 294. Simon and Geizer, 1976, p. 102, Figs. 6, nos. 8-14; 8, no. 10. Ubaghs *in* Moore and Teichert, 1978, p. T79, Fig. 54, no. 6. Gluchowski, 1981b, p. 45, Pl. 5, fig. 9. Webster, 1986, p. 354. Webster, 1988, p. 188. Chernova and Stukalina, 1989, p. 123. Webster, 1993, p. 159.

Florycyclus granulosus (Moore and Jeffords, 1968). Ciezskowski, 1979, p. 78, Fig. 5, no. 3.

Pennsylvanian, Virgilian, Wayland Shale; Thrifty Formation, South Bend Shale Member; Ames Limestone. United States, Texas, Ohio

Mississippian, Viséan. Poland

**Floricyclus hebes* Moore and Jeffords, 1968, p. 77, Pl. 24, fig. 5. Webster, 1973, p. 294. Chernova and Stukalina, 1989, p. 119. Webster, 1993, p. 159.

Note: Cherova and Stukalina, 1989, p. 121, retain the genus *Floricyclus* recognizing several species, however, they transfer the type species, **F. hebes,* to *Plummeranteris*. If the type species is transferred to *Plummeranteris* then so must the genus be put in synonomy. Since I question the transfer to *Plummeranteris* I retain *Floricyclus*. GDW, 2003)

Pennsylvanian, Desmoinesian, Mingus Shale. United States, Kansas

Floricyclus hudolasensis Polyarnaya *in* Yeltyschewa and Polyarnaya, 1975, p. 207, Pl. 95, fig. 11. Webster, 1986, p. 355.

Mississippian, Viséan, Ladenin Horizon. Russia, Southern Ural Mountains

Floricyclus insolitus Sisova, 1983, p. 269, Pl. 1, fig. 12. Webster, 1988, p. 188.

Mississippian, Serpukhovian, Beleutin Horizon. Russia, Kazakhstan

Floricyclus kansasensis Moore and Jeffords, 1968, p. 77, Pl. 24, fig. 9. Webster, 1973, p. 294. Chernova and Stukalina, 1989, p. 123. Webster, 1993, p. 159.

Pennsylvanian, Desmoinesian, Cabaniss Formation. United States, Kansas

Floricyclus kazangapicus Sisova, 1983, p. 265, Pl. 1, figs. 4-5. Webster, 1988, p. 188. Chernova and Stukalina, 1989, p. 124. Webster, 1993, p. 159. Kurilenko *in* Kurilenko et al., 2002, p. 261, Pl. 90, figs. 12-13

Floricyclus kotasensis Sisova, 1983, p. 266, Pl. 1, figs. 6-7. Chernova and Stukalina, 1989, p. 124. Webster, 1993, p. 159.

Mississippian, Tournaisian, Kassin Horizon, lower part of Rusakov Horizon. Russia, Kazakhstan

Floricyclus kotasensis Sisova, 1983 = *Floricyclus kazangapicus*

Floricyclus kuangsinensis (Dubatolova and Shao, 1959). Chernova and Stukalina, 1989, p. 125. Webster, 1993, p. 159.
Pentagonocyclicus kuangsinensis Dubatolova, 1959, p. 43, Pl. 1, fig. 3. Webster, 1973, p. 308. Chernova and Stukalina, 1989, p. 125. Webster, 1993, p. 159.
Mississippian, Viséan. China, Kwangtung Province

Floricyclus kungesaensis Dubatolova *in* Dubatolov, 1976, p. 92, Pl. 24, fig. 14; Fig. 12. Webster, 1986, p. 355. Chernova and Stukalina, 1989, p. 125. Webster, 1993, p. 160.
Pennsylvanian, early Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Kazakhstan, Pribalkhash

Floricyclus leiocauliscens Dubatolova *in* Dubatolov, 1976, p. 91, Pl. 24, fig. 15; Fig. 11. Webster, 1986, p. 355.
Pennsylvanian, Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Northeast Pribalkhash

Floricyclus martynovae (Sisova, 1983). Chernova and Stukalina, 1989, p. 123. Webster, 1993, p. 160.
Acbastaucrinus? martynova Sisova, 1983, p. 264, Pl. 1, fig. 3. Webster, 1988, p. 169. Chernova and Stukalina, 1989, p. 123. Webster, 1993, p. 160.
Acbastaucrinus quinqueangularis Sisova, 1983, p. 263, Pl. 1, figs. 1-2. Webster, 1988, p. 169. Chernova and Stukalina, 1989, p. 123. Webster, 1993, p. 160.
Devonian, Famennian, Sultsiferovy Horizon. Russia, Kazakhstan

Floricyclus paratus (Sisova, 1983). Chernova and Stukalina, 1989, p. 124, Pl. 3, figs. 1-10; Fig. 4. Webster, 1993, p. 160. Arendt, 2002, p. 129, Pl. 10, figs. 1-6. Fig. 2, nos. j- m.
Plummerantericrinus paratus Sisova, 1983. Webster, 1988, p. 208. Chernova and Stukalina, 1989, p. 124. Webster, 1993, p. 160.
Mississippian, Viséan - Serpukhovian, Beleutin Horizon. Russia, Kazakhstan
Mississippian, early Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

Floricyclus parvicostatus Sisova, 1983 = *Lamprosterigma parvicostatus*

Floricyclus pulcher Moore and Jeffords, 1968 = *Plummeranteris pulcher*

Floricyclus pulverlus (Dubatolova and Shao, 1959). Chernova and Stukalina, 1989, p. 125. Webster, 1993, p. 160.
Pentagonocyclicus pulverlus Dubatolova and Shao, 1959, p. 42, Pl. 1, fig. 2. Webster, 1973, p. 310. Chernova and Stukalina, 1989, p. 125. Webster, 1993, p. 160.
Late Early - early Middle Carboniferous. China, Kwangtung Province

Floricyclus undosus (Sisova, 1979). New Combination

Acbastaucrinus undosus Sisova, 1979, p. 167, Pl. 1, figs. 6-7. Webster, 1986, p. 325.
Devonian, Famennian, Sultsiferov Horizon. Kazakhstan

Floricyclus virgalensis Polyarnaya *in* Yeltyschewa and Polyarnaya, 1975, p. 207, Pl. 95, fig. 14. Webster, 1986, p. 355. Chernova and Stukalina, 1989, p. 124. Webster, 1993, p. 160. Kurilenko *in* Kurilenko et al., 2002, p. 261, Pl. 95, figs. 9-10.
Note. Chernova and Stukalina, 1989, p. 124 attribute authorship of this species to Sisova and Stukalina, 1973. Stukalina, 1973, p. 47 introduced the name creating a *nomen nudum*. The species was first described and illustrated by Polyarnaya *in* Yeltyschewa and Polyarnaya, 1975, establishing authorship. GDW, 2003.
Pentagonocyclicus virgalensis Stukalina, 1973 (*nomen nudum*). Sisova and Stukalina *in* Stukalina, 1973, p. 47, Pl. 6, fig. 3. Webster, 1977, p. 214. Chernova and Stukalina, 1989, p. 124. Webster, 1993, p. 160.
Early - Middle Carboniferous. Russia, Zabaikal, Southern Ural Mountains, Kazakhstan; Mongolia

Floricyclus welleri Moore and Jeffords, 1968 = *Lamprosterigma welleri*

Floricyclus sp. 2 Kurilenko *in* Kurilenko et al., 2002, p. 262, Pl. 90, fig. 19.
Pennsylvanian, early Bashkirian, Khara-Shibirska Suite, Khara-Shibirsky Horizon. Russia, Far East, Transbaikal

Floricyclus spp.
Gluchowski and Racki, 2005, p. 167, Fig. 4, no. H.
Mississippian, Tournaisian, Pilton Beds. United Kingdom, North Devon
Kurilenko and Kulkov, 2008, p. 466, Fig. 4, no. J.
Devonian, Givetian, Oldoy Horizon. Russia, Far East

FLORIPILA Moore and Jeffords, 1968. **F. florealis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 56. Webster, 1973, p. 294. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 355. Webster, 1988, p. 189.
Recognized number of named columnal species: 2 Devonian species, 1 Emsian, 1 Givetian
Devonian, Emsian. Czech Republic
Devonian, Givetian. United States

**Floripila florealis* Moore and Jeffords, 1968, p. 57, Pl. 10, figs. 7-8. Webster, 1973, p. 294. Ubaghs *in* Moore and Teichert, 1978, p. T77, Fig. 55, no. 2. Webster, 1986, p. 355.
Devonian, Givetian (Erian), Wanakah Shale. United States, New York

Floripila formosa Prokop and Slámová*, 2012, p 134, Pl. 1, figs.. 7-10; Fig. 1.*
Devonian, early Emsian Zlichow Limestone. Czech Republic, Barrandian area

Floripila spp.
Le Menn, 1980, p. 262, Pl. 35, figs. 10-11. Webster, 1986, p. 355.

Devonian, early Siegenian, l'Armorique Formation. France, Armorican Massif Le Menn, 1985, p. 125, Pl. 27, fig. 9. Webster, 1988, p. 189.
Devonian, Pragian (Early Seiginian), l'Armorique Formation. France, Armorican Massif

Florycyclus granulosus (Moore and Jeffords, 1968) = *Floricyclius granulosus*

FLUCTICHARAX Moore and Jeffords, 1968. **F. undatus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 70. Webster, 1973, p. 294. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 355. Webster, 1988, p. 189.
Recognized number of named columnal species: 1 Mississippian, Tournaisian – Viséan species
Mississippian, Viséan. United States
Mississippian, Tournaisian. Poland

**Fluctichárax undatus* Moore and Jeffords, 1968, p. 71, Pl. 20, figs. 7-8. Webster, 1973, p. 294. Gluchowski, 1977, p. 309, Fig. 10. Ubaghs *in* Moore and Teichert, 1978, p. T77, Fig. 55, no. 4. Gluchowski, 1981b, p. 44, Pl. 5, fig. 1. Webster, 1986, p. 355. Webster, 1988, p. 189.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky
Mississippian, Tournaisian. Poland

Fluted crinoid columnal Conkin and Conkin, 1976, p. 217, Pl. 2. Webster, 1988, p. 189.
Silurian, Brassfield Limestone. United States, Kentucky

FORBESIOCRINUS de Koninck and Le Hon, 1854.
Recognized number of named columnal species: 1 Permian, Wordian species
Permian, Wordian. Sicily

Forbesiocrinus? siculus de Gregorio, 1930, p. 35, Pl. 13, fig. 16. Bassler and Moodey, 1943, p. 480. (pluricolumnal? or bryozoan?)
Permian, Wordian. Sicily

Form-genus *Ellipsellipsopa* sp. Oakley, 1941, p. 11.
Middle or ?Late Carboniferous. India, Sikkim

FORMALIOCRINUS Stukalina, 1980. **F. minimus* Stukalina, 1980.
Stukalina, 1969, p. 204 (*nomen nudum*). Jeffords *in* Moore and Teichert, 1978, p. T936. Stukalina, 1980c, p. 172. Webster, 1986, p. 355. Webster, 1993, p. 160.
Recognized number of named columnal species: 1 Ordovician, Katian? or Hirnantian? Species: 1 Ordovician, Katian? Or Hirnantian? species
Ordovician, Katian? or Hirnantian? (Ashgillian). Kazakhstan

**Formaliocrinus minimus* Stukalina, 1980c, p. 173, Pl. 32, figs. 8-9; Fig. 58, no. 6. Stukalina, 1986, p. 33, Fig. 13, no. 1. Webster, 1986, p. 355. Webster, 1993, p. 160.
Ordovician, Katian? or Hirnantian? (Ashgillian), Chokpar Horizon, Durben

Horizon. Kazakhstan

Formosocrinidae Stukalina, 1986, p. 96, Fig. 29, no. 6. Stukalina, 1988c, p. 44, Fig. 28, no. 6. Webster, 1993, p. 160.
Late Silurian - Early Devonian

FORMOSOCRINUS Stukalina, 1975. **Kasachstanocrinus formosus* Yeltyschewa and Sisova, 1973.
Stukalina, 1975, p. 144. Stukalina, 1986, p. 70. Webster, 1986, p. 356. Webster, 1988, p. 189. Webster, 1993, p. 160. Stukalina, 1998, p. 22.
Recognized number of named columnal species: 2 species. 1 Late Silurian – Early Devonian; 1 Early Devonian species
Late Silurian - Early Devonian. Kazakhstan; Poland

**Formosocrinus formosus* (Yeltyschewa and Sisova, 1973). Stukalina, 1975, p. 144, Pl. 34, figs. 17-20. Stukalina, 1978c, p. 56, Pl. 13, fig. 13. Gluchowski, 1981b, p. 39, Pl. 2, fig. 2. Stukalina, 1986, p. 70, Pl. 15, figs. 23-25. Webster, 1986, p. 356. Stukalina, 1988c, p. 63, Pl. 11, figs, 19-21. Webster, 1988, p. 189. Stukalina, 1991, p. 181, Pl. 43, fig. 9; Fig. 15, no. zh. Webster, 1993, p. 161.
Kasachstanocrinus formosus Yeltyschewa and Sisova, 1973, p. 93, Pl. 1, fig. 9; Fig. 6. Stukalina, 1975, p. 144. Webster, 1977, p. 204. Webster, 1986, p. 356.
Late Silurian - Early Devonian, Ainasu Horizon; Kokbaital Horizon; Pribalkhash Horizon. Russia, Kazakhstan; Poland

Formosocrinus cf. *formosus* (Yeltyschewa and Sisova, 1973). Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 292, Pl. 108, fig. 21.
Silurian, Podlasian, Rzepin Formation. Poland

Formosocrinus spiculatus Polozhichina, 1980, p. 116, Pl. 23, figs. 27-28. Webster, 1986, p. 356. Stukalina, 1988c, p. 63, Pl. 11, fig. 22. Stukalina, 1991, p. 181, Pl. 43, figs. 7-8; Fig. 15, no. z. Webster, 1993, p. 161.
Early Devonian, lower part of Pribalkhash Horizon. Kazakhstan

Formosocrinus sp. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 2.
Devonian, late Givetian. Poland

FOSSULACRINUS Stukalina *in* Stukalina and Hints, 1979. **F. fossulus* Stukalina *in* Stukalina and Hints, 1979.
Stukalina *in* Stukalina and Hints, 1979, p. 7. Hynda, 1986, p. 90. Stukalina, 1986, p. 61. Webster, 1986, p. 356. Webster, 1993, p. 161.
Recognized number of named columnal species: 2 Ordovician, Katian species
Ordovician, Katian. Lithuania; Latvia; Russia

**Fossulacrinus fossulus* Stukalina *in* Stukalina and Hints, 1979, p. 7, Pl. 1, figs. 18-20. Hynda, 1986, p. 90, Pl. 14, figs. 7-10, Fig. 35. Stukalina, 1986, p. 61, Pl. 11, figs. 8-10. Webster, 1986, p. 356. Stukalina, 1988c, p. 58, Pl. 5, figs. 7-9. Webster, 1993, p. 161.
Ordovician, Katian, upper part of Pishchan Suite; Rakvere Horizon, Oandu

Horizon, Nabala Horizon. Russia, Southwestern Eastern European Platform; Latvia

Fossulacrinus shushvensis Hynda and Saladzhius, 1988, p. 49, Unnum. Pl., fig. 5; Fig. d. Webster, 1993, p. 161.
Ordovician, Katian, Voor Suite, Nabala Horizon. Lithuania

Fossulae Donovan, 1985e, p. 21, Fig. 2, no. 20. Webster, 1988, p. 189.
Ordovician, Hirnantian (Ashgillian). United Kingdom

Fragment de la surface d'une tige d'*Arthroacantha?* sp. Termier, G. and Termier, H., 1950, p. 214, Pl. 215, fig. 29. Webster, 1973, p. 328.
Devonian, Siegenian. Morocco

Fragment de tige Yakovlev, 1930a, Pl. 1, figs. 18a-18b.
Permian, Artinskian. Russia, Ural Mountains

Fragment de tige de Dendrocrinoidea Termier, G. and Termier, H., 1950, p. 236, Pl. 226, figs. 75-6 (sic). Webster, 1973, p. 328.
Silurian, late Wenlockian. Morocco

Fragment de tige indéterminé Termier, G. and Termier, H., 1950, p. 236, Pl. 226, figs. 7-8. Webster, 1973, p. 328.
Mississippian, Viséan. Algeria

Fragment indeterminate Termier, H. and Termier, G., 1974, p. 46, Pl. 6, fig. 3. Webster, 1986, p. 398.
Devonian, Pragian. Morocco

Fragment of crinoid stem Foord, 1890 = *Baryschyr? carnarvonensis*

Fragmented stalks Baumiller and Ausich, 1992, p. 289, Fig. 1, nos. A-H.
Mississippian, late Osagean, Fort Payne Formation. United States, Kentucky

Fragments de Crinoides indéterminés Termier, G. and Termier, H., 1950, p. 236, Pl. 226, figs. 13-22. Webster, 1973, p. 328.
Devonian, Siegenian. Morocco

Fragments de tiges de Crinoides de Koninck, 1873, p. 10, Pl. 1, figs. 6-10.
Carboniferous. Bleiberg in Carinthie

Fragments of columns Zakowa, 1966, Pl. 16, figs. 11a-11d. Webster, 1977, p. 229.
Mississippian, Sokolec Bed. Poland

Fragments of crinoids Bartels, Briggs, and Brassel, 1998, p. 105, Fig. 80.
Devonian, early Emsian, Hunsrückschiefer. Germany, Taunus

GASTEROCOMA Goldfuss, 1839.

Recognized number of named columnal species: 1 Devonian, Pragian species
Early - Devonian. France

Gasterocoma armoricana Le Menn, 1980, p. 255, Pl. 34, figs. 1-8. Webster, 1986, p. 356.
Devonian,Pragian (early Siegenian), Armorique Formation. France, Amorican Massif

Gasterocoma spp.
Nelson, 1975, p. 458, Pl. 26, figs. 1-2. Webster, 1986, p. 356.
Late early and early Middle Devonian, late Emsian - middle Eifelian. Northern Canada
Dunn and Kendall, 1978, p. 159, Fig. 2.
Devonian, Givetian, Dawson Bay Formation. Canada, Saskatchewan, Manitoba

Generalized float (lobolith) Prokop and Petr, 2001b, p. 260, Fig. 1a.
Diagramatic

GENNAEOCRINUS Wachsmuth and Springer, 1881.
Recognized number of named columnal species: 1 Middle Devonian species
Middle Devonian. United States, New York

cf. *Gennaeocrinus* Termier, G. and Termier, H., 1950, p. 222, Pl. 219. Webster, 1973, p. 294.
Devonian, Gedinnian. Morocco

Gennaeocrinus eucharis (Hall, 1862). Brett, 1981b, p. 348, Fig. 7, no. E. Webster, 1988, p. 189.
Middle Devonian, Moscow Formation. United States, New York

Gennaeocrinus spp. Fraunfelter, 1974, p. 14, Pls. 1, figs. 24-25; 2, fig. 1. Webster, 1986, p. 356.
Middle Devonian, St. Laurent Limestone, Lingle Limestone. United States, Illinois

Genus and species undetermined (holdfast) Pabian and Strimple, 1974a, p. 289, Pl. 32, fig. 13. Webster, 1986, p. 398.
Pennsylvanian, Virgilian, Lecompton Formation, Beil Limestone Member. United States, Nebraska

Genus and species undetermined (stem segment) Pabian and Strimple, 1974a, p. 314, Pl. 39, figs. 1-3. Webster, 1986, p. 398.
Permian, Wolfcampian, Winfield Formation, Grant Shale Member. United States, Nebraska

Genus and species unknown Pabian and Strimple, 1993, p. 46, Fig. 17, no. j.
Pennsylvanian, Missourian, ?Virgilian, South Bend Limestone. United States, Nebraska

Gen. et sp. indet. Sieverts-Doreck, 1942, p. 230, Fig. 7. Webster, 1973, p. 328.
Permian. Australia, Tasmania

Geodized crinoid stem Douglas, 1969, p. 226, Fig. 3. Douglas, 1971, p. 199, Fig. 3. Webster, 1977, p. 229.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana

Geodized crinoid stem Douglas, 1971, Unnum. Fig. p. 203. Webster, 1977, p. 229.
Mississippian. United States, Indiana

Geodized crinoid stem section Douglas, 1969, p. 226, Fig. 2. Douglas, 1971, p. 199, Fig. 2. Webster, 1977, p. 229.
Mississippian?. United States, Indiana

Geodized fossil-probably a crinoid stem Douglas, 1971, p. 199, Fig. 1. Webster, 1977, p. 229.
Mississippian. United States, Indiana

GILBERTSOCRINUS Phillips, 1836.
Webster, 1993, p. 161. Donovan, 2006b, p. 88.
Recognized number of named, columnal species: 9 species. 4 Devonian, 1 Eifelian – Givetian boundary, 2 Givetian,1 Famennian; 1 Devonian, Famennian – Mississippian, Tournaisian; 4 Mississippian, 1 Tournaisian – Visean, 3 Viséan Devonian, Givetian – Mississippian, Visean. Europe, United States, Afgahnistan

Gilbertsocrinus aequalis Moore and Jeffords, 1968, p. 39, Pl. 3, fig. 5. Webster, 1973, p. 294.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

Gilbertsocrinus cassiope Moore and Jeffords, 1968, p. 39, Pl. 3, figs. 6-7. Webster, 1973, p. 295. Gluchowski, 1981b, p. 32, Pl. 3, fig. 9. Webster, 1988, p. 189. Gluchowski and Racki, 2005, p. 163, Fig. 3, nos. A-B.
Mississippian, Tournaisian. Poland
Mississippian, Tournaisian, Pilton Beds. United Kingdom, North Devon

Gilbertsocrinus concinnus Moore and Jeffords, 1968, p. 39, Pl. 3, fig. 12. Webster, 1973, p. 295. Gluchowski, 1981b, p. 31, Pl. 3, fig. 8. Webster, 1988, p. 189.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa
Mississippian, Tournaisian. Poland

Gilbertsocrinus fionae Donovan, 2006b, p. 88, Figs. 2, 3.
Mississippian, Viséan, Brigantian, Monsal Dale Limestone. United Kingdom

Gilbertsocrinus rugosus Stukalina, 1997a, p. 64, Pl. 9, figs. 1-2. Stukalina, 1997b, p. 410, Pl. 9, figs. 1-2.
Late Devonian, Famennian/Tournaisian boundary strata. Central Afghanistan

Gilbertsocrinus tenuis Le Menn, 1985, p. 44, Pl. 5, figs. 10-18. Webster, 1988, p. 189.
Devonian, Givetian, Kerbelec Formation. France, Armorican Massif

Gilbertsocrinus aff. *tenuis* Le Menn, 1985. Le Menn, 1988b, p. 459, Pl. 53, figs. 4-6. Webster, 1993, p. 161.
Devonian, Frasnian, Beaulieu Formation, Patures Member. France

Gilbertsocrinus tuberosus (Lyon and Casseday, 1859). Riddle, Wulff, and Ausich, 1988, p. 641, Figs. 1-7. Webster, 1993, p. 161. Hollis and Ausich, 2008, p. 136, Figs.2-2-4, 5, no. C, 6.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana

Gilbertsocrinus tuberosus (Lyon and Casseday 1859) Lane, 1963 = Tuberous holdfast

Gilbertsocrinus vetulus Moore and Jeffords, 1968, p. 38, Pl. 3, fig. 1. Webster, 1973, p. 295. Gluchowski, 1981b, p. 32, Pl. 3, fig. 7. Webster, 1988, p. 190. Gluchowski, 1993a, p. 42, Fig. 5, nos. H-I. Gluchowski, 2005, p. 316, Figs. 2, no. A; 5, E, G.
Devonian, Givetian (Erian), Wanakah Shale, Centerfield Limestone. United States, New York
Devonian, Eifelian-Givetian boundary, Skaly Beds. Poland

Gilbertsocrinus sp. A Gluchowski and Racki, 2005, p. 163, Fig. 3,nos. C-D.
Devonian, Famennian, Pilton Beds; Mississipian, Tournaisian, Saunton Sands. United Kingdom, North Devon

Gilbertsocrinus sp. B Gluchowski and Racki, 2005, p. 163, Fig. 3,nos. E-F.
Mississippian, Tournaisian, Pilton Beds. United Kingdom, North Devon

Gilbertsocrinus sp. Powers and Ausich, 1990, p. 251, Fig. 3.2. Webster, 1993, p. 161.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana

GISSOCRINUS Angelin, 1878.
Recognized number of named columnal species: 2 species. 1 Ordovician, Katian or younger; 1 Silurian , Ludlovian
Ordovician, Katian or younger. Argentina
Silurian - Middle Devonian. Europe, United States

Gissocrinus(?) issensis Milicina, 2000a, p. 56, Pl. 10, fig. 5. Milicina, 2000b, p. 61, Pl. 10, figs. 5a-5b.
Silurian, Ludlovian, Isovskoi Horizon. Russia, east slope Ural Mountains

?Gissocrinus salagastensis Rusconi, 1951, p. 257 (*nomen nudum*). Rusconi, 1952, p. 37, Pl. 1, fig. 4; Fig. 9. Sieverts-Doreck, 1957b, p. 154. Webster, 1973, p. 295.
Ordovician, Katian or younger. Argentina

Gliptocrinus elegans jaani Yeltyschewa, 1975 = *Glyptocrinus elegans jaani*

GLYPHIDOCRINUS Dubatolova, 1971. **Pentagonocyclicus singularis* Dubatolova,

1964.
Dubatolova, 1971, p. 84. Webster, 1977, p. 201. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 356. Webster, 1988, p. 190. Webster, 1993, p. 161.
Recognized number of named columnal species: 8 Devonian species: 1 Pragian, 1 Emsian, 1 Emsian – Eifelian, 2 Eifelian, 2 Frasnian, 1 Famennian
Devonian, Pragian = Frasnian. Russia, France

Glyphidocrinus barbasculus Dubatolova, 1980, p. 140, Pl. 21, figs. 4-5; Fig. 33. Webster, 1986, p. 357.
Devonian, late Emsian, Zlikhov Layer. Russia, Altai Mountains

Glyphidocrinus carinatus Le Menn, 1985, p. 151, Pl. 33, figs. 1-7. Webster, 1988, p. 190.
Devonian, Eifelian, Quelern Formation. France, Armorican Massif

Glyphidocrinus conspiciendus Dubatolova, 1980, p. 141, Pl. 21, fig. 6; Fig. 34. Webster, 1986, p. 357.
Devonian, late Emsian-Eifelian, Zlikhov Layer. Russia, Altai Mountains

Glyphidocrinus infimus (Dubatolova, 1964). Dubatolova, 1971, p. 84. Webster, 1977, p. 201.
Pentagonocyclicus infimus Dubatolova, 1964, p. 91, Pl. 13, figs. 11-14 (given as figs. 11-13 in text). Dubatolova, 1971, p. 84. Webster, 1973, p. 308. Webster, 1977, p. 201. Gluchowski, 1993a, p. 60, Fig. 12, nos. I-J. Gluchowski, Casier, and Olempska, 2006,p. 701, Fig. 3, no. P.
Devonian, Frasnian. Russia, Kuznetz Basin; Poland

Glyphidocrinus(?) politus Dubatolova, 1990, p. 123, Pl. 16, figs. 10-14; Fig. 28, nos. A-V. Webster, 1993, p. 161.
Early Devonian, Pragian. Russia, West Siberian Platform

Glyphidocrinus raricostalis Zinevich, 1988, p. 86, Pl. 19, figs. 6-8; Fig. p. 81, no. z. Webster, 1993, p. 161.
Middle Devonian, Eifelian, Losishin Suite. Russia, Rudny Altai

Glyphidocrinus singularis (Dubatolova, 1964). Dubatolova, 1971, p. 84. Webster, 1977,
p. 201.
Pentagonocyclicus singularis Dubatolova, 1964, p. 91, Pl. 13, figs. 9-10. Dubatolova,
1971, p. 84. Webster, 1973, p. 310. Webster, 1977, p. 201.
Devonian, Frasnian. Russia, Kuznetz Basin

Glyphidocrinus verrucatus Stukalina, 1997a, p. 68, Pl. 9, fig. 15. Stukalina, 1997b, p. 413, Pl. 9, fig. 15.
Late Devonian, uppermost beds of the Famennian. Central Afghanistan

Glyphidocrinus spp.
Le Menn, 1985, p. 152, Pl. 33, figs. 8-10. Webster, 1988, p. 190.
Devonian, late Emsian, La Grange Limestone. France, Armorican Massif
Gluchowski, 1993a, p. 61, Fig. 12, no. H.
Devonian, Eifelian-Givetian boundary - Givetian, Skaly Beds, Laskowa Gora Beds, Szydlowek Beds, Dziewki Limestone, *Stringocephalus* Beds, lower part of Wietrznia Beds. Poland
Gluchowski and Racki, 2005, p. 169, Fig. 5, no. H.
Devonian, Famennian, Pilton Beds. United Kingdom, North Devon

GLYPTOCRINUS Hall, 1847.
Webster, 1993, p. 162.
GLYPTOCRINUS sensu lato Stukalina, 1986, p. 72. Stukalina, 2000, p. 19.
Recognized number of named columnal species: 3 species. 2 Ordovician, Katian; 1 silurian, Wenlockian
Ordovician, Katian. United States
Silurian, Wenlockian. Poland

GLYPTOCRINUS sensu lato Stukalina, 1986 = ***GLYPTOCRINUS***

Glyptocrinus decadactylus Hall, 1847. Meyer et al., 2002, p. 727, Fig. 2, nos. 4, 7, 11.
Ordovician, Katian, Kope and Fairview Formations. United States, Ohio, Kentucky

Glyptocrinus elegans (Yeltyschewa, 1960) = *Pentagonocyclicus elegans*

Glyptocrinus? elegans (Yeltyschewa, 1960) = *Pentagonocyclicus elegans*

Glyptocrinus elegans jaani Yeltyschewa, 1975. Webster, 1988, p. 190.
Gliptocrinus elegans jaani Yeltyschewa, 1975, p. 127, Pl. 2, figs. 1-7 (sic). Gluchowski, 1981a, p. 101, Fig. 3. Gluchowski, 1981b, p. 34, Pl. 1, fig. 12. Webster, 1986, p. 357. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 291, Pl. 108, fig. 3.
Silurian, Wenlockian. Poland

Glyptocrinus plumosus Hall, 1852 (part) = *Eomyelodactylus ?plumosus*

Glyptocrinus plumosus Hall, 1852 (part) = *Eomyelodactylus* sp.

Glyptocrinus plumosus Hall, 1852 (part) = *Haptocrinus* sp.

Glyptocrinus ramulosus Titus, 1979, p. 112, Figs. 7, no. 14; 8, no. 1. Webster, 1986, p. 357.
Ordovician, Katian (early Trentonian). United States, New York

Glyptocrinus sp. Hall, 1852 = Columnal of unknown crinoid

GOBICRINUS Stukalina, 1997. **G. vasiljevi* Stukalina, 1997.

Stukalina, 1997c, p. 42, Fig. 3, no. b. Stukalina, 1997d, p. 607, Fig. 3, no. b.
Recognized number of named columnal species: 1 Mississippian, Viséan species
Mississippian, Viséan. Mongolia

**Gobicrinus vasiljevi* Stukalina, 1997c, p. 42, Fig. 1, nos. e, zh. Stukalina, 1997d, p. 607,
Fig. 1, nos. f-g.
Mississippian, Viséan, Urmugtai Formation. Mongolia, eastern Gobi

Goniaster pygmaeus Eichwald, 1860 = *Tetragonocrinus pygmaeus* = *Entrochus pygmaeus*

GONIOCION Moore and Jeffords, 1968. **G. gonicus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 75. Webster, 1973, p. 295. Jeffords *in* Moore and Teichert, 1978, p. T933.
Recognized number of named columnal species: 2 Mississippian, Viséan species
Mississippian, Viséan (Osagean). United States

**Goniocion gonimus* Moore and Jeffords, 1968, p. 75, Pl. 23, fig. 6. Webster, 1973, p. 295.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa

Goniocion turgidus Moore and Jeffords, 1968, p. 75, Pl. 23, fig. 4. Webster, 1973, p. 295.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa

GONIOSTATHMUS Moore and Jeffords, 1968. **G. annexus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 75. Webster, 1973, p. 295. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1993, p. 162.
Recognized number of named columnal species: 2 species. 1 Devonian, Famennian; 1 Mississippian, Viséan
Devonian, Famennian. Kazakhstan
Mississippian, Viséan (Osagean). United States

**Goniostathmus annexus* Moore and Jeffords, 1968, p. 75, Pl. 22, fig. 12. Webster, 1973, p. 295.
Mississippian, Viséan (Osagean), Burlington Limestone. United Staes, Iowa

Goniostathmus olentensis Sisova, 1988, p. 150, Pl. 1, figs. 6a-6b, 7. Webster, 1993, p. 162.
Devonian, Famennian, Simorin Horizon. Kazakhstan

GOVOROVOCRINUS Arendt, 2002. **Gorovocrinus okensis* Arendt, 2002 (OD).
Arendt, 2002, p. 142.
Recognized number of named columnal species: 1 Mississippian, Serpukhovian species
Mississippian, Serpukhovian, Steshev Horizon. Russia, Moscow Basin

**Govorovocrinus okensis* Arendt, 2002, p. 142, Pl. 14, figs. 2a-2b; Fig. 5, nos. g-h (not Pl. 12, figs. 7-8 as given p. 142).
Mississippian, lower part of Serpukhovian, Steshev Horizon. Russia, Moscow Basin

GRAMMACRINUS Eichwald, 1869 = ***GRAMMOCRINUS***

GRAMMOCRINUS Eichwald, 1860. **Cyathocrinus lineatus* Eichwald, 1856
Eichwald, 1860, p. 597. Bigsby, 1868, p. 20. Bassler, 1938, p. 106. Bassler and Moodey, 1943, p. 495. Moore and Jeffords, 1968, p. 104. Webster, 1973, p. 295. Jeffords *in* Moore and Teichert, 1978, p. T933. Hynda, 1986, p. 104. Webster, 1993, p. 162.
GRAMMACRINUS Eichwald, 1869. Zittel, 1880, p. 380 (sic).
Recognized number of named columnal species: 3 species, 1 subspecies. 2 Ordovician, 1 Floian 1 subspecies, 1 Darriwilian; 1 Late Silurian uncertain
Ordovician, Floian - Darriwilian. Russia
Late Silurian. Estonia, Isle of Ösel

Grammocrinus clathratus Eichwald, 1860, p. 598, Pl. 31, figs. 15a-15b. Bigsby, 1868, p. 20. Bassler and Moodey, 1943, p. 495.
Late Silurian, Calcaire a Coraux. Isle of Ösel

**Grammocrinus lineatus* (Eichwald, 1856). Eichwald, 1860, p. 597, Pl. 31, figs. 10-14. Bigsby, 1868, p. 20. Bassler and Moodey, 1943, p. 495. Yeltyschewa, 1964a, p. 67, Pl. 1, figs. 18-19. Webster, 1973, p. 295.
Cyathocrinus lineatus Eichwald, 1856, p. 116. Bassler, 1938, p. 106. Bassler and Moodey, 1943, p. 495.
Ordovician, Darriwilian, *Orthoceras* Limestone. Russia

Grammocrinus lineatus var. *brevia* Yeltyschewa, 1964a, p. 67, Pl. 1, figs. 15-17. Webster, 1973, p. 295.
Ordovician, Floian. Russia, Popovka River

Grammocrinus tuberculatus Yeltyschewa, 1964a, p 68, Pl. 1, fig. 20. Webster, 1973, p. 295.
Ordovician, Floian. Russia, Popovka River

Grammocrinus cf. *tuberculatus* Yeltyschewa, 1964. Hynda, 1980, p. 66, Pl. 1, fig. 3. Hynda, 1986, p. 105, Pl. 17, figs. 8-10; Fig. 43. Webster, 1986, p. 357. Webster, 1993, p. 162.
Middle Ordovician, Darriwilian (Llanvirnian – Llandeilian), Azer - Ukhaku Horizons. Russia, Southwestern Eastern European Platform

GRANULICRINUS Stukalina, 1988. **Granulosocrinus granulosus* Stukalina, 1985. Webster, 1993, p. 162.
GRANULOSOCRINUS Stukalina, 1985a [non *Pisocrinus (Granulosocrinus)* Rozhnov, 1981, p. 190. Rusconi, 1986, p. 72. Webster, 1988, p. 190. Webster, 1993, p. 162.

Recognized number of named columnal species: 1 Ordovician, Katian species
Late Ordovician, Katian. Kazakhstan

**Granulicrinus granulosus* (Stukalina, 1985). Stukalina, 1988c, p. 64, Pl. 13, figs. 3-4. Webster, 1993, p. 162.
Granulosocrinus granulosus Stukalina, 1985a, p. 190, Pl. 3, fig. 13. Stukalina, 1986, p. 72, Pl. 17, fig. 19. Webster, 1988, p. 190. Webster, 1993, p. 162.
Late Orodovician, Katian, Anderken Horizon equivalent. Southern Kazakhstan

GRANULOSOCRINUS Stukalina, 1985 = ***GRANULICRINUS***

Granulosocrinus granulosus Stukalina, 1985 = **Granulicrinus granulosus*

GRAPHOSTERIGMA Moore and Jeffords, 1968. **G. scriptum* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 61. Webster, 1973, p. 295. Jeffords *in* Moore and Teichert, 1978, p. T933. Webster, 1986, p. 357. Webster, 1988, p. 190.
Recognized number of named columnal species: 5 Mississippian species, 4 Viséan, 1 Serpukhovian
Mississippian, Viséan. United States, Russia; Kazakhstan
Mississippian, Serpukhovian. Poland

Graphosterigma grammodes Moore and Jeffords, 1968, p. 62, Pls. 13, fig. 6; 14, figs. 1-3. Webster, 1973, p. 295. Gluchowski, 1981b, p. 43, Pl. 5, fig. 13. Webster, 1988, p. 190.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana
Mississippian, Viséan –Serpukhovian (Namurian A). Poland

Graphosterigma rugosus (Yeltyschewa and Schewtschenko, 1960). Yeltyschewa and Polyarnaya, 1975, p. 206, Pl. 95, fig. 4. Webster, 1986, p. 357.
Cyclocyclicus rugosus Yeltyschewa and Schewtschenko, 1960, p. 121, Pl. 1, figs. 1-5. Webster, 1973, p. 286. Webster, 1977, p. 188. Webster, 1986, p. 357.
Pentagonocyclicus rugosus (Yeltyschewa and Schewtschenko, 1960). Dubatolova and Yeltyschewa, 1969, p. 62.
Arenariocrinus rugosus (Yeltyschewa and Schewtschenko, 1960). Dubatolova and Yeltyschewa, 1969, p. 62. Webster, 1977, p. 188. Webster, 1986, p. 357.
Mississippian, Viséan. Russia, Southern Ural Mountains
Mississippian, Viséan. Kazakhstan, Tien Shan Mountains

**Graphosterigma scriptum* Moore and Jeffords, 1968, p. 62, Pl. 13, fig. 3. Webster, 1973, p. 295.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

Graphosterigma synthetes Moore and Jeffords, 1968, p. 62, Pl. 13, fig. 1. Webster, 1973, p. 295.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

Graphosterigma unilineatus (Yeltyschewa and Dubatolova *in* Dubatolova and Yeltyschewa, 1969). Yeltyschewa and Polyarnaya, 1975, p. 206, Pl. 95, figs. 8-9. Webster, 1977, p. 226. Webster, 1986, p. 357.

**Unilineatocrinus unilineatus* Yeltyschewa and Dubatolova *in* Dubatolova and Yeltyschewa, 1969, p. 65, Pl. 16, fig. 5. Skoropisceva, 1969, p. 44, Pls. 5, fig. 5; 6, fig. 6c. Webster, 1977, p. 226.

Mississippian, late Viséan, Ladenin Horizon. Russia, Southern Ural Mountains Armenia, Verkhoyane, Spitzbergen

GRAPTOCRINUS Dubatolova, 1971. **Pentagonocyclicus inconditus* Dubatolova, 1964.

CRAPTOCRINUS Dubatolova, 1971, p. 70. Webster, 1977, p. 192. Jeffords *in* Moore and Teichert, 1978, p. T932. Webster, 1993, p. 162.

Note. Dubatolova, 1971, obviously intended for this genus to be designated *Graptocrinus* as may be noted in the footnote for the etmology of the name. However, the spelling was given as *Craptocrinus* for the genus, while both species assigned to the genus were given as *Graptocrinus.* Webster, 1977, incorrectly took the spelling of *Craptocrinus* and placed both species under *Craptocrinus.*

Recognized number of named columnal species:4 Devonian species: 1 Pragian, 1 Middle Devonian uncertain, 1 Eifelian, 1 Eifelian – Famennian

Early – Middle Devonian. Russia

Graptocrinus incelebratus (Yeltyschewa and Dubatolova, 1967). Webster, 1993, p. 163.

Pentagonocyclicus incelebratus Yeltyschewa and Dubatolova *in* Dubatolova, Yeltyschewa, and Modzalevskaya, 1967, p. 51, Pl. 7, figs. 1-4. Dubatolova, 1971, p. 70. Webster, 1973, p. 308. Webster, 1977, p. 192. Webster, 1993, p. 163.

Craptocrinus incelebratus (Yeltyschewa and Dubatolova, 1967). Dubatolova, 1971, p. 70. Webster, 1977, p. 193. Webster, 1993, p. 163.

Pentagonocyclicus incellebratus Yeltyschewa and Dubatolova *in* Dubatolova, Yeltyschewa, and Modzalevskaya, 1967. Yeltyschewa, 1969, p. 165, Pl. 40, figs. 5-6.

Early - Middle Devonian. Russia, Upper Amur Basin.

**Graptocrinus inconditus* (Dubatolova, 1964). Webster, 1993, p. 163.

Pentagonocyclicus inconditus Dubatolova, 1964, p. 85, Pl. 12, figs. 9-11; Fig. 12. Dubatolova, 1971, p. 70. Webster, 1973, p. 308. Webster, 1977, p. 193. Webster, 1993, p. 163.

Craptocrinus inconditus (Dubatolova, 1964). Dubatolova, 1971, p. 70. Webster, 1977, p. 193. Webster, 1993, p. 163.

Early Devonian, Eifelian: Russia, Kuznetz Basin, Salair

Graptocrinus obstupendus (Dubatolova, 1964). Webster, 1993, p. 163.

Pentagonocyclicus obstupendus Dubatolova, 1964, p. 82, Pl. 12, figs. 1-4; Fig. 11.

Dubatolova, 1971, p. 70. Webster, 1973, p. 309. Webster, 1977, p. 193. Webster,
1993, p. 163.
Craptocrinus obstupendus (Dubatolova, 1964). Dubatolova, 1971, p. 70 . Webster, 1977, p. 193. Webster, 1993, p. 163.
Devonian, Eifelian - Famennian. Russia, Kuznetz Basin

Graptocrinus (?) suavis Dubatolova, 1990, p. 120, Pl. 16, figs. 5-6; Fig. 24, nos. A-B. Webster, 1993, p. 163.
Early Devonian, Pragian. Russia, West Siberian Platform

Graptocrinus sp. Le Menn, 1988. Webster, 1993, p. 163.
Craptocrinus sp. Le Menn, 1988b, p. 472, Pl. 53, fig. 7. Webster, 1993, p. 163.
Devonian, Givetian, Blacourt Formation, Griset Member. France

GREGARIOCRINUS Stukalina, 1968. **Pentagonocyclicus forus* Stukalina, 1961.
Stukalina, 1968c, p. 91. Stukalina, 1970b, p. 81. Webster, 1973, p. 295. Webster, 1977, p. 201. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 70. Webster, 1993, p. 163. Stukalina, 1998, p. 21.
Recognized number of named columnal species: 1 Late Silurian - Devonian, Lochkovian species
Late Silurian - Devonian, Lochkovian. Russia; Kazakhstan
Devonian, Lochkovian. Russia

**Gregariocrinus forus* (Stukalina, 1961). Stukalina, 1968c, p. 91. Stukalina, 1970b, p. 81. Webster, 1973, p. 295. Stukalina, 1975, p. 136, Pl. 34, figs. 15-16. Stukalina, 1978c, p. 54, Pl. 13, fig. 5. Webster, 1977, p. 201. Stukalina, 1986, p. 70, Pl. 15, figs. 19-20; Tab. 5. Webster, 1986, p. 357. Stukalina, 1988c, p. 63, Pl. 11, figs. 23-24; Fig. 31. Stukalina, 1991, p. 182, Fig. 15, no. k. Webster, 1993, p. 163. Kurilenko *in* Kurilenko et al., 2002, p. 157, Pl. 55, figs. 18-19.
Pentagonocyclicus forus Stukalina, 1961, p. 39, Pl. 1, fig. 8. Stukalina, 1965b, p. 135, Pl. 2, figs. 1-2. Stukalina, 1968c, p. 91. Webster, 1973, p. 295.
Late Silurian, Silurian - Devonian boundary layer, Ainasu Horizon; Kokbaital Horizon. Central Kazakhstan
Devonian, Lochkovian, Ainasu and Kokbaital Horizons. Russia, Vostochnogo Zabaikal

GRISETOCRINUS Le Menn *in* Ures, Le Menn, and Hladil, 1999. **Grisetocrinus uresi* Le Menn *in* Ures, Le Menn, and Hladil, 1999.
Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 327.
Recognized number of named columnal species: 1 Devonian, Givetian species
Devonian, Givetian. Czech Republic, Moravia

Grisetocrinus aff. *spinonodosus* (Le Menn, 1976). Le Menn, 1980. Le Menn et al., 2002, p. 29, Pl. 2, fig. 19.
Devonian, Pragian, Monte das Russianas Formation. Portugal

**Grisetocrinus uresi* Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 327, Pl. 1, figs. 1-10.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia

Grisetocrinus sp. Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 328, Pl. 1, fig. 29.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia

Group columnals Pitakpaivan, Ingavet, and Pariwatvorn, 1969, p. 59, Pl. 14, figs. 1-2. Webster, 1977, p. 230.
Carboniferous. Thailand

GURJEVSKOCRINUS Dubatolova, 1971. **G. punctulatus* Dubatolova, 1971.
Dubatolova, 1971, p. 56. Webster, 1977, p. 201. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 82. Webster, 1988, p. 190. Webster, 1993, p. 163.
Recognized number of named columnal species: 2 Devonian species, 1 Lochkovian, 1 Eifelian – Givetian
Devonian, Lochkovian. Russia, Far East
Devonian, Eifelian - Givetian. Kazakhstan, Poland

Gurjevskocrinus impalpabilis (Dubatolova, 1968). Kurilenko *in* Kurilenko, et al., 2002, p. 166, Pl. 55, fig. 20.
Devonian, Lochkovian. Russia, Far East, Transbaikal

**Gurjevskocrinus punctulatus* Dubatolova, 1971, p. 56, Pl. 6, figs. 13-15; Fig. 23. Webster, 1977, p. 201. Gluchowski, 1981b, p. 39, Pl. 3, fig. 11. Webster, 1988, p. 190. Gluchowski, 1993a, p. 52, Fig. 10, nos. H-I. Webster, 1993, p. 163.
Devonian, Eifelian-Givetian boundary, Skaly Beds, Eifelian, ?"Dabrowa Limestone"; Givetian, *Strinogocephalus* beds. Kazakhstan; Poland

GYMNOCRINUS Grygar and Vasícek, 1983. **Gymnocrinus minimus* Grygar and Vasícek, 1983.
Grygar and Vasícek, 1983, p. 276.
Recognized number of named columnal species: 1 Mississippian, Serpukhovian species
Mississippian, Serpukhovian (Namurian). Czech Republic

**Gymnocrinus minimus* Grygar and Vasícek, 1983, p. 277, Pl. 2, figs. 2a-2b; Fig. 6.
zmississippain, Serpukhovian (Namurian). Czech Republic

HAERETICOTAXOCRINUS Franzen, 1982.
Silurian, Ludlovian. Sweden

Haereticotaxocrinus asper Franzen, 1982. Hess, *in* Hess et al., 1999 p. 83, Fig. 98.
Silurian, Ludlovian, Eke beds. Sweden

HAPLOCRINITES Steininger, 1837.
Silurian - Mississippian. North America; Europe

Haplocrinites? Termier, H. and Termier, G., 1974, p. 34, Pl. 6, figs. 6-7. Webster, 1986, p. 357.
Late Devonian. Morocco

Haplocrinus Steininger, 1837. Eichwald, 1860, p. 580 (sic).

Haplocrinus annularis Eichwald, 1860, p. 582, Pl. 31, figs. 1-3, 57a-57c (sic). Lessnikow, 1924, p. 173 (sic).
Ordovician, Darriwilian, *Orthocerus* Limestone. Russia, Poulkowa in vicinity of St. Petersburg

Haplocrinus monile Eichwald, 1856 = *Dianthicoeloma monile*

HAPLOTETOCRINUS Dubatolvoa, 1971. **Pentagonocyclicus expolites* Dubatolova, 1964.
Dubatolova, 1971, p. 79. Webster, 1977, p. 201. Jeffords *in* Moore and Teichert, 1978, p. T934. Rakhmonov and Stukalina, 2000, p. 3, Pl. 2, figs. 5-6.
Recognized number of named columnal species: 3 Devonian species: 1 Early Devonian, uncertain, 1 Eifelian, 1 Devonian uncertain
Early - Middle Devonian, Pragian/Emsian. Uzbekistan, southern Tien Shan
Early – Middle Devonian. Russia

**Haplotetocrinus expolitus* (Dubatolova, 1964). Dubatolova, 1971, p. 79. Webster, 1977, p. 201.
Pentagonocyclicus expolitus Dubatolova, 1964, p. 83, Pl. 11, fig. 8. Dubatolova, 1971, p. 79. Webster, 1973, p. 307. Webster, 1977, p. 201.
Early Devonian. Russia, Kuznetz Basin

Haplotetocrinus levidensis (Dubatoloba, 1964). Dubatolova, 1971, p. 79. Webster, 1977, p. 202.
Pentagonocyclicus levidensis Dubatolova, 1964, p. 86, Pl. 12, figs. 6-8. Dubatolova, 1971, p. 79. Webster, 1973, p. 308. Webster, 1977, p. 202.
Devonian, Eifelian. Russia, Kuznetz Basin

Haplotetocrinus submersus (Dubatolova, 1968). Dubatolova, 1971, p. 79. Webster, 1977, p. 202.
Pentagonocyclicus submersus Dubatolova, 1968, p. 154, Pl. 15, figs. 14-15; Fig. 13. Dubatolova, 1971, p. 79. Webster, 1973, p. 310. Webster, 1977, p. 202.
Devonian, Tom-Chum Horizon. Russia, Salair

Haptocrinus sp. Eckert and Brett, 2001, p. 42, Pl. 10, fig. 2.
Glyptocrinus sp. Hall, 1852 (part).
Silurian, middle Llandoverian, Reynales Formation, Hickory Corners Member. United
States, New York

HATTINANTHERIS Moore and Jeffords, 1968. **H. indianensis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 59. Webster, 1973, p. 296. Jeffords *in* Moore and Teichert, 1978, p. T934.
Recognized number of named columnal species: 2 Silurian, Niagaran species
Silurian, Niagaran. United States

**Hattinantheris indianensis* Moore and Jeffords, 1968, p. 59, Pl. 11, fig. 5. Webster, 1973, p. 296.
Silurian, Niagaran, Waldron Shale. United States, Indiana

Hattinantheris regularis Moore and Jeffords, 1968, p. 59, Pl. 12, fig. 2. Webster, 1973, p. 296.
Silurian, Niagaran, Waldron Shale. United States, Indiana

HEMICYCLOCYCLOPA Wright, 1983. *Nomen nudum.*
Wright, 1983, p. 597, Unnum. Fig. Webster, 1988, p. 190.
Ordovician, Katian (Caradocian). United Kingdom

Hemicyclocyclopa 1 Wright, 1983, p. 597, Unnum. Fig. Webster, 1988, p. 190.
Ordovician, Katian (Caradocian). United Kingdom

HERPETOCRINUS Salter, 1873 = ***MYELODACTYLUS***

HERPETOCRINUS Salter, 1873
Recognized number of named columnal species: 2 Silurian, Llandoverian species
Silurian, Llandoverian. Aweden

Herpetocrinus (Myelodactylus) dicirrocrinus Ehrenberg, 1930 = *Dicirrocrinus(?) dicirrocrinus*

Herpetocrinus flabellicirrus Bather, 1893. Donovan and Franzén-Bengtson, 1988, p. 71. Webster, 1993, p. 163.
Silurian, Llandoverian. Sweden, Isle of Gotland

Herpetocrinus fletcheri Donovan and Franzén-Bengtson, 1988, p. 71. Webster, 1993, p. 163.
Silurian, Llandoverian. Sweden, Isle of Gotland

Herpetocrinus sp. Yeltyschewa, 1955 = *Myelodactylus flexibilis*

Heterocrinids? Donovan, 1986d, p. 29, Figs. 13, nos. D-E; 17, no. G. Webster, 1993, p. 164.
Ordovician. United Kingdom

HETEROCRINUS Hall, 1847.
Recognized number of named columnal species: 2 Ordovician, 1 Katian, 1 Katian – Hirnantian

Ordovician, Katian - Hirnanatian (Cincinnatian). United States

Heterocrinus decadactylus Hall, 1847. Emmons, 1855, p. 223, Pl. 17, fig. 20, (incorrectly cited on plate explanation as *H. heterodactylus*).
Ordovician, Katian – Hirnanatian (Cincinnatian), Lorraine Shale. United States, Kentucky

Heterocrinus juvenis Hall, 1866. Warn, 1974, p. 506, Figs. 3-4. Webster, 1986, p. 357.
Ordovician, Katian (Richmondian), Liberty Formation. United States, Ohio

cf. *Heterocrinus* sp. Quenstedt, 1885, p. 945, Pl. 75, fig. 19.
Silurian, Hudson River Group. United States, Ohio

HETEROSTAURUS Moore and Jeffords, 1968. **H. belknapensis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 83. Webster, 1973, p. 296. Jeffords *in* Moore and Teichert, 1978, p. T934.
Recognized number of named columnal species: 1 Pennsylvanian, Virgilian species
Pennsylvanian, Virgilian. United States

**Heterostaurus belknapensis* Moore and Jeffords, 1968, p. 83, Pl. 27, fig. 14. Webster, 1973, p. 296.
Pennsylvanian, Virgilian, Belknap Limestone. United States, Texas

HETEROSTELECHUS Moore and Jeffords, 1968. **H. texanus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 81. Webster, 1973, p. 296. Simon and Geizer, 1976, p. 102. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1986, p. 357.
Recognized number of named columnal species: 3 species. 2 Pennsylvanian,

1 Atokan,Virgilian; 1 Pennsylvanian, Virgilian – Permian, Wolfcampian

Pennsylvanian, Atokan, Virgilian - Permian, Wolfcampian. United States

Heterostelechus jeffordsi Miller *in* Moore and Jeffords, 1968, p. 82, Pl. 28, figs. 2-6. Jeffords and Miller, 1968, p. 12, Pl. 3, figs. 1-9; Figs. 1, no. C; 2, no. C; 3; 4, nos. C-D; 5, no. C. Webster, 1973, p. 296. Simon and Geizer, 1976, p. 103, Fig. 10, nos. 7-10. Webster, 1986, p. 358.
Pennsylvanian, Virgilian, Wayland Shale; Ames Limestone. United States, Texas, Ohio

Hesterostelechus cf. *jeffordsi* Miller, 1968. Grygar and Vasícek, 1983, p. 275, Pl. 1, figs. 3a-3b; Fig. 4.
Mississippian, Serpukhovian. Czech Republic

Heterostelechus keithi Miller *in* Moore and Jeffords, 1968, p. 82, Pl. 28, figs. 8-10. Moore *et al.*, 1968a, p. 11, Pl. 3, figs. 1-3; Fig. 3, no. 1. Webster, 1973, p. 296. Simon and Geizer, 1976, p. 102, Fig. 10, nos. 1-3 (not nos. 1-6 as given p. 102).

Ciezskowski, 1979, p. 78, Fig. 5, no. 1. Webster, 1986, p. 358. Buitrón, Patiño, and Moreno, 1987, p. 134, Figs. 8-9. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. c.
Pennsylvanian, Virgilian, Gunsight Limestone; Wayland Shale; Graham Formation; Ames Limestone; Del Monte Formation. United States, Texas, Ohio; Mexico
Pennsylvanian, Atokan = early late Moscovian, La Joya Formation. Mexico

**Heterostelechus texanus* Moore and Jeffords, 1968, p. 81, Pls. 27, fig. 16; 28, figs. 1, 7. Moore *et al.*, 1968a, p. 16, Fig. 3, no. 4. Webster, 1973, p. 296. Ubaghs *in* Moore and Teichert, 1978, p. T79, Fig. 54, no. 7. Ciezskowski, 1979, p. 78, Fig. 5, no. 4. Webster, 1986, p. 358. Buitron-Sanchez, et al., 2007, p. 349, Fig. 3, nos.
h, i.
Pennsylvanian, Virgilian - Permian, Wolfcampian, Thrifty Formation, Belnap Limestone Member; Waldrip Shale. United States, Texas
Middle Permian, Monos Formation. Mexico, Sonora

Hexacriniden Kutscher, 1971, p. 115, Pl. 1. Webster, 1977, p. 203.
Devonian, Emsian, Hunsrückschiefer. Germany

HEXACRINITES Austin and Austin, 1843.
Le Menn *in* Le Menn *et al.*, 1976, p. 49. Webster, 1986, p. 358.
Hexacrinites sensu lato Stukalina, 1986, p. 85. Webster, 1993, p. 164.
Recognized number of named columnal species: 27 species, 2 subspecies. 3 Silurian, 2 uncertain, 1 late Silurian uncertain; 1 Late Silurian – Devonian, Lochkovian; 20 Devonian, 1 Pragian – Emsian, 1 Pragian – Frasnian, 3 Emsian, 1 Emsian – Eifelian, 2 Early Devonian uncertain, 2 Eifelian, 3 Givetian, 3 Givetian – Frasnian, 1 Middle Devonain, uncertain, (2 Middle Devonian subspecies); 3 Frasnian; 1 Devonian, Pragian – Emsian, Mississippian, Tournaisian; 1 Mississippian – Serpukhovian; 1 Permian, Wordian
Middle Silurian - Early Carboniferous. Cosmopolitan

HEXACRINITES sensu lato Stukalina, 1986 = ***HEXACRINITES***

Hexacrinites? Austin and Austin, 1843. Stukalina, 1973, p. 36. Webster, 1977, p. 202.

Hexacrinites? amentaceus Schewtschenko, 1989, p. 89, Pl. 1, fig. 23 (typographical error as *H. amantaceus* on plate explanation). Webster, 1993, p. 164.
Devonian, late Eifelian. Uzbekistan or Tadzhikstan, Tien Shan, Gissar and Zeravshan Mountains

Hexacrinites? angustannulus Dubatolova, 1975 = *Marettocrinus angustannulus*

Hexacrinites? argutus Yeltyschewa *in* Dubatolova, 1964, p. 41, Pl. 5, figs. 3-5. Webster, 1973, p. 296.
Devonian, Frasnian. Russia, Kuznetz Basin

Hexacrinites? bellus Polozhichina, 1980, p. 117, Pl. 23, fig. 31. Webster, 1986, p. 358. Stukalina, 1991, p. 161, Pl. 38, fig. 4.
Devonian, Emsian, Sardzhal Horizon. Kazakhstan

Hexacrinites? biconcavus (Yeltyschewa and Dubatolova, 1960). Yeltyschewa and Dubatolova, 1967, p. 23, Pl. 2, figs. 7-10; Fig. 11 (*non* Fig. 12 as given in text). Modzalevskaya, 1967, p. 547, Pl. 6, figs. 19-20. Yeltyschewa, 1969, p. 154, Pls. 57, figs. 9-12; 58, figs. 1-2. Webster, 1973, p. 296. Webster, 1977, p. 202. Stukalina, 1978a, p. 60, Pl. 14, fig. 9. Stukalina, 1986, p. 85, Pl. 21, fig. 5. Webster, 1986, p. 358. Milicina, 1989, p. 109, Pl. 1, fig. 7; Figs. 8-9. Webster, 1993, p. 164. Kurilenko *in* Kurilenko et al., 2002, p. 146, Pls. 60, figs. 11, 17-20; 61, fig. 12; 63, figs. 8-13; 64, fig. 14. Kurilenko and Kulkov, 2008, p. 466, Fig. 4, no. L. Kurilenko *in* Kulkob et al., 2009, p. 82, Pl. 3, figs. 1-7, 10.
Hexacrinus biconcavus Yeltyschewa and Dubatolova, 1960, p. 369, Pl. 70, figs. 7-8. Webster, 1973, p. 296.
Devonian, Givetian - Frasnian, Oldoi Suite, upper part of Bolshenever Suite; Karpin Horizon. Russia, Far East Transbaikal, Altai Mountains, Kazakhstan, Central Urals; China
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

Hexacrinites? brevicrenellatus Le Menn, 1970 = *Marettocrinus brevicrenellatus*

Hexacrinites? cauliculatus Dubatolova, 1968, p. 145, Pl. 15, figs. 2-3; Fig. 3. Webster, 1973, p. 296.
Early Devonian, lower part of Rekovian beds. Russia, Salair

Hexacrinites? celticus Le Menn, 1970 = *Laudonomphalus celticus*

Hexacrinites? circumvalatus (Yeltyschewa *in* Dubatolova and Shao, 1959) = *Bicostulatocrinus circumvalatus*

Hexacrinites? concius Le Menn, 1970 = *Laudonomphalus conicus*

Hexacrinites? dentatus carinatus Yeltyschewa and Dubatolova, 1967, p. 25, Pl. 2, figs. 1-6; Fig. 12 (*non* Fig. 13 as given in text). Webster, 1973, p. 296. Dubatolova, 1988, p. 69, Pl. 14, figs. 12-16; Fig. p. 68, no. g. Webster, 1993, p. 164.
Middle Devonian, Ilinskaya Suite, upper part of Beloubin Suite. Russia, Rudny Altai

Hexacrinites? dentatus dentatus (Quenstedt, 1874). Milicina, 1989, p. 107, Pl. 1, fig. 10, Fig. 10. Webster, 1993, p. 164.
Early - Middle Devonian, Karpin Horizon. Russia, Central Urals

Hexacrinites? dentatus echinatus Dubatolova, Yeltyschewa, and Modalevskaya, 1967 = *Asperocrinus echinatus*

Hexacrinites? dentatus echinatus Yeltyschewa and Dubatolova, 1967 = *Asperocrinus echinatus*

Hexacrinites? dentatus multituberculatus Le Menn, 1970 = *Asperocrinus multituberculatus*

Hexacrinites? dentatus verrocosus Yeltyschewa and Dubatolova, 1969, p. 61, Pl. 15, fig. 14. Webster, 1977, p. 202.
Middle Devonian. Armenia

Hexacrinites? depressus Le Menn, 1970 = *Marettocrinus depressus*

Hexacrinites dubatolovae Stukalina, 1997a, p. 65, Pl. 9, figs. 3-8. Stukalina, 1997b, p. 410, Pl. 9, figs. 3-8.
Late Devonian, Frasnian. Central Afghanistan

Hexacrinites? humilicarinatus Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961, p. 555, Pl. D-87, fig. 6. Dubatolova, 1964, p. 37, Pl. 3, figs. 8-11; Fig. 5. Dubatolova,
1967, p. 34, Pl. 6, figs. 3-7; Fig. 1. Dubatolova and Yeltyschewa, 1969, p. 58, Pl. 14, figs. 3-10. Dubatolova, 1971, p. 59, Pl. 7, figs. 8-9; Fig. 26. Dubatolova, 1973b, p. 98, Pl. 25, figs. 3-4; Fig. 4. Webster, 1973, p. 297. Dubatolova, 1975b, p. 49, Pl. 9, figs. 3-8; Fig. 2. Yeltyschewa and Stukalina, 1977, p. 208, Pl. 1, figs. 8-13. Webster, 1977, p. 202. Dubatolova, 1980, p. 121, Pl. 17, figs. 3-6; Fig. 13. Gluchowski, 1981b, p. 32, Pl. 2, fig. 9. Dubatolova, 1984, p. 115, Pl. 13, figs. 10-13; Fig. 5. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 15. Stukalina, 1986, p. 85, Tab. 5. Gluchowski, 1986, p. 10, Fig. 1, nos. j-k. Webster, 1986, p. 359. Dubatolova, 1988, p. 70, Pl. 15, figs. 1-3. Stukalina, 1988c, Figs. 29, no. 4; 31. Webster, 1988, p. 191. Milicina, 1989, p. 105, Pl. 1, figs. 2-3; Fig. 6. Stukalina, 1991, p. 158, Fig. 11, nos. i, k. Gluchowski, 1993a, p. 54, Fig. 9, no. G.
Gluchowski, 1993b, p. 166, Pl. 2, figs. 1-4. Webster, 1993, p. 164. Rakhmonov and Stukalina, 2000, p. 3, Pl. 1, fig. 3.
Laudonomphalus humilicarinatus (Yeltyschewa, 1961). Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 15. Stukalina, 1991, p. 158. Gluchowski, Casier, and Olempska, 2006, p. 699, Fig. 3, no. I.
Entrochi biarticulati Quenstedt, 1876, p. 640, Pl. 112, figs. 68-71. Dubatolova, 1964, p. 37. Webster, 1973, p. 297.
Entrochus biarticulatus (Quenstedt, 1876). Bassler and Moodey, 1943, p. 451.
Entrochi mammillati Quenstedt, 1876, p. 639, Pl. 112, figs. 64-67. Dubatolova, 1964, p. 37. Webster, 1973, p. 297.
Entrochus mammillati (Quenstedt, 1876). Stache, 1883, p. 399, Pl. 6, fig. 24. Bassler and Moodey, 1943, p. 452.
Laudonomphalus regularis Moore and Jeffords, 1968, p. 72, Pl. 21, figs. 1-4. Webster, 1973, p. 299. Yeltyschewa and Stukalina, 1977, p. 208. Le Menn, 1985,
p. 131, Pls. 28, figs. 23-27; 29, figs. 1-3. Webster, 1986, p. 359. Webster, 1988, p. 196. Stukalina, 1991, p. 158.

Devonian, Givetian (Erian), Bell Shale, Rockport Limestone, Wanakah Shale. United States, Michigan, New York
Early - Middle Devonian, Pragian - Frasnian, Ilinskaya Suite, upper part of Beloubin Suite; Karpin Horizon; Vechernin Suite. Russia, Altai Mountains, Urals, Far East, Salair, Kazakhstan, Kuznetz Basin, Omulev Mountains, Armenia
Devonian, Givetian, Kergarvan Formation. France, Armorican Massif
Devonian, Eifelian. Germany
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan
Devonian, late Emsian - Frasnian, Zaforze Formation; Dabrowa Horizon; Skaly Series; *Stringocephalus bustini* Beds; Laskowa Gora Beds; lower and middle part of Wietrznia Beds; upper part of Sitkowka Beds; Dziewka Limestones. Poland
Mississippian, Tournaisian. Western Sahara

Hexacrinites? inflatus Stukalina, 1965b, p. 190, Pl. 1, figs. 5-8. Webster, 1973, p. 297. Stukalina, 1986, p. 85, Tab. 5. Stukalina, 1988c, Fig. 31. Stukalina, 1991, p. 156, Pl. 38, figs. 5-10; Fig. 11, no. d. Webster, 1993, p. 164.
Late Silurian - Early Devonian, Lochkovian (Gedinnian), Kokbaital Horizon. Kazakhstan

Hexacrinites? kartzaeva (Yeltyschewa and Dubatolova, 1961) = *Marettocrinus kartzevae*

Hexacrinites? kartzevae Yeltyschewa and Dubatolova, 1961 = *Marettocrinus kartzevae*

Hexacrinites? latus Dubatolova, 1971, p. 57, Pl. 7, fig. 7; Fig. 24. Webster, 1977, p. 203.
Middle Devonian. Russia, Salair

Hexacrinites? maculosus Dubatolova, 1964 = *Marettocrinus maculosus*

Hexacrinites madmonicus Rakhmonov and Stukalina, 2000, p. 3, Pl. 1, fig. 4 (nomen nudum, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekhistan, southern Tien Shan

Hexacrinites ? *mamillatus* (Yeltyschewa and Dubatolova, 1960). Yeltyschewa and Dubatolova, 1967, p. 20, Pl. 1, figs. 1-12; Fig. 10 (*non* Fig. 11 as given in text). Modzalevskaya, 1967, p. 547, Pl. 6, figs. 21-22. Yeltyschewa, 1969, p. 153, Pl. 57, figs. 1-4. Webster, 1973, p. 297. Webster, 1977, p. 203. Gluchowski, 1981b, p. 33, Pl. 2, fig. 7. Webster, 1988, p. 191. *Kurilenko* in Kurilenko et al., 2002, p. 146, Pls. 59. figs, 1-13; 60, figs. 21-23; 61, fig, 13. Kurilenko and Kulkov, 2008, p. 464, Fig. 3, no. O.
Hexacrinus mammillatus Yeltyschewa and Dubatolvoa, 1960, p. 367, Pl. 70, figs. 1-2. Sisova, 1960, p. 53. Webster, 1973, p. 297.
Devonian, Givetian - early Frasnian. Russia, Far East, Upper Amur Basin, Poland
Devonian, Givetian - early Frasnian. Kazakhstan

Hexacrinites? aff. *mamillatus* Yeltyschewa and J. Dubatolova, 1960. Kurilenko *in* Kulkob et al., 2009, p. 82, Pl. 3, fig. 9.
Devonian, Givetian. Russia, environs Novofirsovo

Hexacrinites? maximus Le Menn, 1976 = *Laudonomphalus maximus*

Hexacrinites? minimus Le Menn, 1970 = *Laudonomphalus minimus*

Hexacrinites? modzalevskajae Yeltyschewa, 1969, p. 154, Pls. 57, figs. 5-8; 58, fig. 2. Webster, 1977, p. 203. Stukalina, 1978c, p. 131, Pl. 14, figs. 8, 11. Stukalina, 1986, p. 85, Pl. 23, fig. 1. Webster, 1986, p. 359. Stukalina, 1988c, p. 65, Pl. 14,
fig. 22. Webster, 1993, p. 164.
Devonian, Givetian - early Frasnian, upper part of Bolshenever Suite, Imachi Formation. Russia, Far East, Upper Amur Basin

Hexacrinites? multipunctatus Milicina, 1989, p. 105, Pl. 1, fig. 6, Fig. 7. Webster, 1993, p. 165.
Devonian, Emsian, Karpin Horizon. Russia, Central Urals

Hexacrinites? ornatus (Moore and Jeffords, 1968).
Laudonomphalus ornatus Moore and Jeffords, 1968, p. 72, Pl. 21, fig. 5. Webster, 1973, p. 299. Yeltyschewa and Stukalina, 1977, p. 209. Webster, 1986, p. 359. Stukalina, 1991, p. 159.
Devonian, Givetian (Erian), Rockport Limestone. United States, Michigan

Hexacrinites paratuberosus Yeltyschewa, 1968, p. 37, Pl. 5, figs. 14-15. Webster, 1973, p. 297.
Silurian, Skalskian Horizon. Russia, Podolia

Hexacrinites? pentastellatus Donovan et al., 1997, p. 14, Pls. 1-2.
Late Silurian, uncertain formation. Canada, Newfoundland

Hexacrinites? perdubius (de Gregorio, 1930). Branson, 1948, p. 196 (organic?).
Hexacrinus? perdubius de Gregorio, 1930, p. 41, Pl. 15, figs. 21-21. Bassler and Moodey, 1943, p. 511 (unrecognizable). Branson, 1948, p. 196.
Idromecrinus perdubius (de Gregorio, 1930), p. 66. Branson, 1948, p. 196.
Permian, Wordian, Sosio Beds. Sicily

Hexacrinites? pisum Kurilenko *in* Kulkob et al., 2009, p. 82, Pl. 3, figs. 11-12.
Devonian, Givetian, upper part of Kukui Suite. Russia, environs Kuria

Hexacrinites? polyformis Sisova, 1977, p. 160, Pl. 32, figs. 4-5. Webster, 1986, p. 359.
Missippian, late Viséan – Serpukhovian (early Namurian). Kazakhstan

Hexacrinites? punctaticarinatus Milicina, 1977b, p. 129, Pl. 3, figs. 5-7; Fig. 6. Webster, 1986, p. 360. Milicina, 1989, p. 107, Pl. 1, fig. 4, Fig. 5. Webster, 1993, p. 165.
Devonian, Emsian - Eifelian, Karin Horizon. Russia, Central Ural Mountains

Hexacrinites? quadriformis Sizova *in* Yeltyschewa and Sizova, 1971, p. 38, Pl. 1, figs. 13-14; Fig. 3. Webster, 1977, p. 203. Stukalina, 1991, p. 161, Fig. 11, nos. e-z.
Devonian, Givetian - early Frasnian, Aidarlin Horizon. Russia, Far East, Upper Amur Basin

Hexacrinites ? *regularis* Le Menn, 1970 (non Moore and Jeffords, 1968) = *Laudonomphalus seillouensis*

Hexacrinites? *stukalinae* Kurilenko *in* Kurilenko and Kulkov, 2008, p. 469, Fig. 4, nos. F, K.
Devonian, Givetian, Oldoy Horizon. Russia, Far East

Hexacrinites? subbiconcavus Stukalina, 1965 = *Marettocrinus subbiconcavus*

Hexacrinites? subtuberosus Milicina, 1989, p. 104, Pl. 1, fig. 5; Fig. 4. Webster, 1993, p. 165.
Devonian, Emsian, Karpin Horizon. Russia, Central Urals

Hexacrinites? sverbilovi Stukalina, 1965b, p. 191, Pl. 1, figs. 9-13. Webster, 1973, p. 297. Stukalina, 1986, p. 85, Pl. 21, figs. 1-3. Stukalina, 1991, p. 260, Pl. 38, figs. 1-3. Webster, 1993, p. 165.
Devonian, Frasnian. Kazakhstan

Hexacrinites? tarejaensis Yeltyschewa and Stukalina, 1977, p. 211, Pl. 1, figs. 14-16. Webster, 1986, p. 360.
Devonian, Ust-tarei Horizon, Tolbat Layer. Russia, Central Taymyr

Hexacrinites? tenuicrenulatus Le Menn, 1976 = *Laudonomphalus tenuicrenulatus*

Hexacrinites? torulosus Dubatolova, 1971, p. 58, Pl. 7, figs. 4-6; Fig. 25. Webster, 1977, p. 203. Kurilenko *in* Kurilenko et al., 2002, p.145, Pl. 63, figs. 15-17.
Devonian, Eifelian. Russia, Far East, Altai Mountains

Hexacrinites? tuberosus Yeltyschewa *in* Dubatolova and Yeltyschewa , 1961 = *Laudonomphalus tuberosus*

Hexacrinites tumidulus Yeltyschewa, 1968, p. 38, Pl. 5, figs. 10-13. Webster, 1973, p. 297.
Silurian, Borschov Horizon. Russia, Podolia

Hexacrinites spp.
Prokop, 1970b, p. 42, Pl. 3. Webster, 1977, p. 203.
Early Devonian, Reefton Group. New Zealand, South Island

Milicina, 1977a, p. 181, Pl. 59, fig. 12. Webster, 1986, p. 360.
Devonian. Russia, ////emsian. Ural Mountains
Hexacrinus spp.
Reed, 1908, p. 41, Pl. 6, fig. 4.
Devonian. India, Northern Shan States
Termier, G. and Termier, H., 1950, p. 206, Pl. 211, figs. 27-28. Webster, 1973, p. 297.
Devonian, early Eifelian. Morocco
Termier, G. and Termier, H., 1950, p. 206, Pl. 211, figs. 33-34. Webster, 1973, p. 297.
Devonian, early Eifelian. Morocco
Termier, G. and Termier, H., 1950, p. 206, Pl. 211, figs. 37-38. Webster, 1973, p. 297.
Devonian, early Eifelian. Morocco
Sangil, 1955, p. 251, Fig. 2, no. C. Webster, 1973, p. 297.
Diagramatic
Gluchowski, 1981b, p. 34, Pl. 2, fig. 6. Webster, 1988, p. 191.
Devonian, Givetian-Famennian. Poland
Stukalina, 1986, p. 85, Pl. 21, fig. 4. Webster, 1993, p. 165.
Early Devonian, upper part of Pribalkhash Horizon, Besoba Horizon. Central Kazakhstan
Hexacrinus? sp. Termier, G. and Termier, H., 1950, p. 84, Pl. 211, figs. 39-41. Webster, 1973, p. 297.
Devonian, Givetian. Morocco

HEXACRINUS **Note:** Numerous species have been incorrectly referred to *Hexacrinus*. Some belong to *Hexacrinites* some do not. Unless reidentified within other studies I have left them in *Hexacruinus* for future correction, GDW.

Hexacrinus biconcavus Yeltyschewa and Dubatolova, 1960 = *Hexacrinites biconcavus*

Hexacrinus kartzevae var. *kazachstanica* Sisova, 1960, p. 55 (*nomen nudum*). Webster, 1973, p. 297.
Devonian, Givetian-Frasnian. Kazakhstan

Hexacrinus mammillatus Yeltyschewa and Dubatolvoa, 1960 = *Hexacrinites* ? *mamillatus*

Hexacrinus nodiger (Eichwald, 1856). Eichwald, 1860, p. 604, Pl. 31, figs. 28a-28c. Eichwald, 1861, p. 170, Pl. 10, figs. 28a-28c. Bassler and Moodey, 1943, p. 511.
Actinocrinus nodiger Eichwald, 1856, p. 118. Eichwald, 1857, p. 64. Eichwald, 1860, p. 31, Figs. 36, nos. a-c. Bassler and Moodey, 1943, p. 511.
Carboniferous. Russia

Hexacrinus? perdubius de Gregorio, 1930 = *Hexacrinites? perdubius*

Hexacrinus spinosus (Müller, 1856). Zittel, 1895, p.128, Fig. 242, nos. d-e. Wachsmuth

in Zittel, 1900, p. 140, Fig. 241, nos. d-e. Opitz, 1932, p. 111, Fig. 90.
Devonian, Eifelian, Dachschiefer. Germany

Hexacrinus cf. *spinosus* (Müller, 1856). Reed, 1908, p. 41, Pl. 6, figs. 1-3.
Devonian. India, Northern Shan States

Hexacrinus sp. of authors = *Hexacrinites* spp.

Hexacrinus? sp. Termier and Termier, 1950 = *Hexacrinites* ? spp.

Hexagonal, holomeric columnal Donovan, 1985e, p. 21, Fig. 2, no. 10. Webster, 1988, p. 191.
Ordovician,Darriwilian (Llanvirnian). United Kingdom

HEXAGONOCYCLICUS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 4E. Yeltyschewa, 1959, p. 233, Fig. 1, no. 4E. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 4E. Dubatolova, 1964, p. 9, Fig. 1, no. 4E. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T936. Webster, 1986, p. 360.
Theoretical genus, no known species.

HEXAGONOCYCLICUS Donovan, 1989 (*non* Yeltyschewa, 1956). **H. hexagonalis* Donovan, 1989.
Donovan, 1989d, p. 96. Webster, 1993, p. 165.
Recognized number of named columnal species: 3
Ordovician, Darriwilian, Katian (Ashgillian). United Kingdom

Hexagonocyclicus banzhuangensis Mu and Wu, 1974, p. 154, Pl. 67, figs. 3-4. Webster, 1986, p. 360.
Late Ordovician, Darriwilian, Nanchingkuan Group. China, Kweichow Province

Hexagonocyclicus douyunensis Mu and Wu, 1974, p. 154, Pl. 67, figs. 1-2. Webster, 1986, p. 360.
Late Ordovician, Darriwilian, Nanchingkuan Group. China, Kweichow Province

**Hexagonocyclicus hexagonalis* Donovan, 1989d, p. 96, Pl. 8, fig. 5. Webster, 1993, p. 165.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

HEXAGONOCYCLOPA Wright, 1983. *Nomen nudum.*
Wright, 1983, p. 597, Unnum. Fig. Webster, 1988, p. 192.
Ordovician, Katian (Caradocian). United Kingdom

Hexagonocyclopa 1 Wright, 1983, p. 597, Unnum. Fig. Webster, 1988, p. 192.
Ordovician, Katian (Caradocian). United Kingdom

Hexagonocyclopa 2 Wright, 1983, p. 597, Unnum. Fig. Webster, 1988, p. 192.
Ordovician, Katian (Caradocian). United Kingdom

HEXAGONOELLIPTICUS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 4F. Yeltyschewa, 1959, p. 233, Fig. 1, no. 4F. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 4F. Dubatolova, 1964, p. 9, Fig. 1, no. 4F. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species.

HEXAGONOHEXAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 4D. Yeltyschewa, 1959, p. 233, Fig. 1, no. 4D. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 4D. Dubatolova, 1964, p. 9, Fig. 1, no. 4D. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species.

HEXAGONOPENTAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 4C. Yeltyschewa, 1959, p. 233, Fig. 1, no. 4C. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 4C. Dubatolova, 1964, p. 9, Fig. 1, no. 4C. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species.

HEXAGONOTETRAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 4B. Yeltyschewa, 1959, p. 233, Fig. 1, no. 4B. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 4B. Dubatolova, 1964, p. 9, Fig. 1, no. 4B. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species.

HEXAGONOTRIGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 4A. Yeltyschewa, 1959, p. 233, Fig. 1, no. 4A. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 4A. Dubatolova, 1964, p. 9, Fig. 1, no. 4A. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species.

HIATOCRINUS Stukalina, 1969. *Nomen nudum*
Stukalina, 1969, p. 204. Jeffords *in* Moore and Teichert, 1978, p. T937.

HOLAMPTOCRINUS Prokop, 2009. **Holamptocrinus argutus* Prokop, 2009.
Prokop, 2009b, p. 49.
Recognized number of named columnal species: 1 Devonian, Dalejan Species
Devonian, Dalejan. Czech Republic

Holamptocrinus argutus Prokop, 2009b, p. 50, Figs Fig. 1, nos. A-E.
Devonian, Dalejan, Trebotov Limestone. Czech Republic

Holdfast Ausich and Sevastopulo, 1994, p. 248, Fig. 3, no. C.
Mississippian, late Tournaisian, Hook Head Formation. Ireland

Holdfast and associated distal stem of *Hybocystites* Brett and Liddell, 1978, p. 338, Fig. 5, no. H. Webster, 1986, p. 399.

Ordovician, Katian (Trentonian), Bobcaygeon Formation. Canada, Ontario

Holdfast indeterminant Webster and Lane, 2007, p. 964, Fig. 6, nos. 1-2.
Permian, Artinskian, Bird Spring Formation. United States, Nevada

Holdfast type A Guensburg, 1984, p. 69, Pl. 14, figs. 17-19, 23-24. Webster, 1988, p. 192.
Ordovician, Sandbian, Lebanon Limestone. United States, Tennessee

Holdfast type B Guensburg, 1984, p. 69, Pl. 14, figs. 21, 25. Webster, 1988, p. 192.
Ordovician, Sandbian, Lebanon Limestone. United States, Tennessee

Holdfast type C (*Lichenocrinus*) Guensburg, 1984, p. 70, Pl. 14, figs. 20, 23, 26-27. Webster, 1988, p. 192.
Ordovician, Sandbian, Lebanon Limestone. United States, Tennessee

Holdfast type 1A Lewis, 1982, p. 58, Pl. 3, figs. 10-11, 17, 24, 28; Fig. 16. Webster, 1988, p. 192.
Ordovician, Sandbian, Bromide Formation, Mountain Lake Member. United States, Oklahoma

Holdfast type 1B Lewis, 1982, p. 59, Pl. 3, figs. 14, 21-23, 29-30; Fig. 16. Webster, 1988, p. 192.
Ordovician, Sandbian, Bromide Formation, Mountain Lake Member. United States, Oklahoma

Holdfast type 1C Lewis, 1982, p. 60, Pl. 3, figs. 12-13, 15-16, 33; Fig. 16. Webster, 1988, p. 192.
Ordovician, Sandbian, Bromide Formation, Mountain Lake Member. United States, Oklahoma

Holdfast type 1D Lewis, 1982, p. 61, Pl. 3, fig. 31; Fig. 16. Webster, 1988, p. 192.
Ordovician, Sandbian, Bromide Formation, Mountain Lake Member. United States, Oklahoma

Holdfast type 2 Lewis, 1982, p. 61, Pl. 3, fig. 27; Fig. 16. Webster, 1988, p. 192.
Ordovician, Sandbian, Bromide Formation, Mountain Lake Member. United States, Oklahoma

Holdfast type 3
Palmer and Palmer, 1977, p. 187, Fig. 5, no. A. Webster, 1986, p. 399.
Ordovician, Katian (Champlainian), Galena Group, Dunleith Formation, Rivoli Member. United States, Iowa
Lewis, 1982, p. 61, Fig. 16. Webster, 1988, p. 192.
Ordovician, Sandbian, Bromide Formation, Mountain Lake Member. United States, Oklahoma

Holdfast type 4A Lewis, 1982, p. 62, Pl. 3, figs. 25, 32; Fig. 16. Webster, 1988, p. 192.

Ordovician, Sandbian, Bromide Formation, Mountain Lake Member. United States, Oklahoma

Holdfast type 4B Lewis, 1982, p. 64, Pl. 3, fig. 26; Fig. 16. Webster, 1988, p. 193.
Ordovician, Sandbian, Bromide Formation, Mountain Lake Member. United States, Oklahoma

Holdfasts Thomaas and Haude, 2006, p. 194, Fig. 10.
Mississippian. Germany

Holdfasts formed by undifferentiated stereome accretion Franzén, 1977, p. 231, Fig. 4, nos. A-B. Webster, 1986, p. 399.
Silurian, Ludlovian. Sweden, Isle of Gotland

Holdfasts of ?*Cleiocrinus* species Guensburg, 1984, p. 24, Pl. 1, figs. 4, 18. Webster, 1988, p. 192.
Ordovician, Sandbian, Lebanon Limestone. United States, Tennessee

Holdfasts of crinoids Becker, 2000, Fig. 3, nos. D-E.
Devonian, Famennian. Australia, Western Australia

Holdfasts of crinoids Rozhnov, 2002, p. S656, Fig. 94, upper.
Ordovician, Darriwilian (late Arenig). Russia, St. Petersburg Region

Holdfasts of crinoids Rozhnov, 2002, p. S656, Fig. 95.
Ordovician, Darriwilian (late Arenig). Russia, St. Petersburg Region

Holdfasts with stout cirri Franzén, 1977, p. 225, Figs. 2, no. D; 6, nos. B-C. Webster, 1986, p. 399.
Silurian, Ludlovian, Sweden, Isle of Gotland

Holomeric columnal with bilateral symmetry Donovan, 1985e, p. 21, Fig. 2, no. 12. Webster, 1988, p. 193.
Ordovician, Darriwilian (Llandeilian). United Kingdom

Holomeric columnal with pentastellate lumen Donovan, 1985e, p. 21, Fig. 2, no. 13. Webster, 1988, p. 193.
Ordovician, Katian (Caradocian). United Kingdom

Holomeric columnal with 3-fold symmetry Donovan, 1985e, p. 21, Fig. 2, no. 16. Webster, 1988, p. 193.
Ordovician, Katian (Caradocian). United Kingdom

Holomeric crenulated columnals with round lumen Pisera, 1994, p. 288, Pl. 61, fig. 8.
Ordovician, Darriwilian – Katian (Llanvirnian – Ashgillian), Mojcza Limestone. Poland, Holy Cross Mountains

Holomeric, crinoid-like columnal Donovan, 1985e, p. 21, Fig. 2, no. 6. Webster, 1988, p. 193.
Ordovician, Tremadocian. United Kingdom

Holomeric pentagonal columnal Pisera, 1994, p. 288, Pl. 62, fig. 1.
Ordovician, Darriwilian (Llanvirnian), Mojcza Limestone. Poland, Holy Cross Mountains

HOMOCRINUS Hall, 1852.
Haude, 1981, p. 188, Fig. 1, no. c.
Silurian, Niagaran. United States

Homocrinus sp. Taylor and Brett, *in* Hess et al., 1999 p. 88, Fig. 103.
Silurian, Wenlockian, Rochester Shale, Lewiston Member, *Homocrinus* Beds. United States, New York

HYBOCRINUS Billings, 1857.
Middle Ordovician. North America

Hybocrinus spp. Guensburg, 1992a, p. 142, Fig. 15 (diagramatic).
Middle Ordovician

HYDREIONOCRINUS de Koninck, 1858.
Donovan and Lewis, 2003, p. 3.
Recognized number of named columnal species: 1 Mississipian. Series uncertain, species
Mississippian. United Kingdom

Hydreionocrinus parkinsoni Wright, 1942. Donovan and Lewis, 2003, p. 3, Pl. 4, fig. 2.
Mississippian. United Kingdom

HYPEREXOCHUS Moore and Jeffords, 1968. **H. immodiscus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 33. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1986, p. 360.
Recognized number of named columnal species: 1 Devonian, Lochkovian species
Devonian, Lochkovian (Helderbergian). United States

**Hyperexochus immodiscus* Moore and Jeffords, 1968, p. 33, Pl. 1, figs. 4-7. Webster, 1973, p. 298. Ubaghs *in* Moore and Teichert, 1978, p. T87, Fig. 63, no. 1. Webster, 1986, p. 361.
Devonian, ochkovian (Helderbergian), Birdsong Shale. United States, Tennessee

HYPSINOMOCRINUS Donovan and Harper, 1993. **H. lewisi* Donovan and Harper, 1993, OD.
Donovan and Harper, 1993, p. 672. Donovan, 1995b, p. 119.
Recognized number of named columnal species: 1Ordovician, Hirnantian species
Ordovician, Hirnantian. United Kingdom, /Scitland

Hypsinomocrinus (col) *lewisi* Donovan and Harper, 1993, p. 672, Figs. 2, no. e; 3-4. Donovan, 1994, p. 77, Fig. 9, nos. B-D. Donovan, 1995a, p. 14, Fig. 1, nos. b, d, e. Donovan, 1995b, p. 119, Pl. 14, figs. 5-8, 11-15.
Ordovician, Hirnantian, High Mains Formation. United Kingdom Scotland

IBEROCRINUS Sieverts-Doreck, 1951 = ***MEGALIOCRINUS***

Iberocrinus sp. Hernández-Sampelayo, 1954, p. 25, Pl. 3, fig. 1e. Webster, 1973, p. 298.
Carboniferous. Spain

Iberocrinus sp. Sangil, 1955, p. 253, Fig. 3, no. C.
Diagramatic

IDROMECRINUS de Gregorio, 1930. **Idromecrinus genistus* de Gregorio, 1930.
de Gregorio, 1930, p. 41. Bassler, 1938, p. 117. Bassler and Moodey, 1943, p. 522 (unrecognizable fragments). Moore and Laudon, 1943b, p. 104. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T934 (columnal).
Recognized number of named columnal species: 2 Permian Wordian species, 1 subspecies
Permian, Wordian. Sicily

Idromecrinus floreatus de Gregorio, 1930, p. 41, Pl. 15, figs. 18-19. Bassler and Moodey, 1943, p. 522.
Permian, Wordian. Sicily

**Idromecrinus genistus* de Gregorio, 1930, p. 41, Pl. 15, figs. 12-13. Bassler, 1938, p. 117. Bassler and Moodey, 1943, p. 523. Jeffords *in* Moore and Teichert, 1978, p. T934.
Permian, Wordian. Sicily

Idromecrinus genistus laratus de Gregorio, 1930, p. 41, Pl. 15, figs. 14-17. Bassler and Moodey, 1943, p. 523.
Permian. Sicily

Idromecrinus perdubius (de Gregorio, 1930) = *Hexacrinites*? *perdubius*

ILEMATERISMA Moore and Jeffords, 1968. **Ilematerisma enamma* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 40. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1986, p. 361.
Recognized number of named columnal species: 1 Mississippian, Viséan species
Mississippian, Viséan (Osagean). United States

**Ilematerisma enamma* Moore and Jeffords, 1968, p. 40, Pl. 3, fig. 11. Webster, 1973, p. 298. Ubaghs *in* Moore and Teichert, 1978, p. T80, Fig. 58, no. 2. Webster, 1986, p. 361.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

IMATSCHICRINUS Kurilenko *in* Kurilenko et al., 2002. **Pentagonocyclicus ivanovi* Yeltyschewa and Dubatolova, 1967.
Kurilenko *in* Kurilenko et al., 2002, p.150.
Recognized number of named columnal species: 1 Devonian, Pragian – Eifelian species
Devonian, Pragian – Eifelian. Russia

**Imatschicrinus ivanovi* (Yeltyschewa and Dubatolova, 1967). Kurilenko *in* Kurilenko et al., 2002, p. 150, Pls. 59, figs. 19, 20; 60, fig. 8.
Devonian, Pragian – Eifelian. Russia, Transbaikal

IMPERATORIA de Gregorio, 1930. **Imperatoria marconii* de Gregorio, 1930.
de Gregorio, 1930, p. 39. Bassler, 1938, p. 118. Bassler and Moodey, 1943, p. 523. Moore and Laudon, 1943b, p. 104. Webster, 1973, p. 298. Jeffords *in* Moore and Teichert, 1978, p. T937 (doubtful biologic assignment).
Recognized number of named columnal species: 2 Permian, Wordian species
Permian, Wordian. Sicily

Imperatoria? anomala de Gregorio, 1930, p. 40, Pl. 14, figs. 17-18. Bassler and Moodey, 1943, p. 523.
Permian Wordian. Sicily

**Imperatoria marconii* de Gregorio, 1930, p. 39, Pl. 14, figs. 9-16. Bassler, 1938, p. 118. Bassler and Moodey, 1943, p. 523 (doubtful crinoid column).
Permian, Wordian. Sicily

Incertae sedis Simon and Geizer, 1976, p. 104, Figs. 8, nos. 6-8, 11-15; 9, nos. 2-3, 5; 10, nos. 4-6, 13-15. Webster, 1986, p. 399.
Pennsylvanian, Missourian, Ames Limestone. United States, Ohio

INCLAROCRINUS Arendt, 2002. **Inclarocrinus inclarus* Arendt, 2002. (OD)
Arendt, 2002, p. 139.
Recognized number of named columnal species: 1 Mississippian, Serpukhovian species
Mississippian, lower part of Serpukhovian, upper part of Tarusa Horizon. Russia, Moscow Basin

**Inclarocrinus inclarus* Arendt, 2002, p. 139, Pl. 15, figs. 4a-4b; Fig. 5, nos. a-c.
Mississippian, lower part of Serpukhovian, upper part of Tarusa Horizon. Russia, Moscow Basin

Indeterminate attachment structures Donovan and Lewis, 2003, p. 3, Pl. 4, figs. 1, 7.
Mississippian. United Kingdom

Indeterminate crinoid columnal Webster et al., 2001, p. 110, Pl. 1, figs. F-I.
Pennsylvanian, Bashkirian (Namurian), Sardar Formation. Eastern Iran

Indeterminé.
Termier and Termier, 1950, p. 200, Pl. 208, fig. 22. Webster, 1973, p. 328.
Carboniferous, Viséan-Namurian transition. Algeria
Termier, G. and Termier, H., 1950, p. 206, Pl. 211, figs. 35-36. Webster, 1973, p. 328.
Devonian. Eifelian. Morocco
Termier, G. and Termier, H., 1950, p. 214, Pl. 215, figs. 14-16. Webster, 1973, p. 328.
Carboniferous, Westphalian: Algeria
Termier, G. and Termier, H., 1950, p. 214, Pl. 215, figs. 19-20. Webster, 1973, p. 328.
Mississippian, late Viséan: Algeria
Termier, G. and Termier, H., 1950, p. 216, Pl. 216, figs. 17-18. Webster, 1973, p. 328.
Middle Devonian. Morocco
Termier, G. and Termier, H., 1950, p. 216, Pl. 216, figs. 19-20. Webster, 1973, p. 328.
Carboniferous, Namurian: Algeria
Termier, G. and Termier, H., 1950, p. 216, Pl. 216, figs. 21-22. Webster, 1973, p. 328.
Carboniferous, Namurian: Algeria
Termier, G. and Termier, H., 1950, p. 222, Pl. 219, figs. 17-20. Webster, 1973, p. 328.
Carboniferous, late Viséan. Morocco
Termier, G. and Termier, H., 1950, p. 222, Pl. 219, figs. 27-28. Webster, 1973, p. 329.
Devonian, Eifelian. Morocco
Termier, G. and Termier, H., 1950, p. 230, Pl. 223, figs. 16-18. Webster, 1973, p. 329.
Mississippian, late Viséan. Morocco
Termier, G. and Termier, H., 1950, p. 230, Pl. 223, figs. 25-26. Webster, 1973, p. 329.
Pennsylvanian, Westphalian: Algeria
Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 1-8. Webster, 1973, p. 329.
Devonian, Pragian (Siegenian): Algeria
Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 9-10. Webster, 1973, p. 329.
Devonian, Pragian (Siegenian): Algeria
Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 11-17. Webster, 1973, p. 329.
Devonian, Pragian (Siegenian): Algeria
Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 18-19 (*non* figs. 8-19 as given p. 232). Webster, 1973, p. 329.
Devonian, Famennian: Algeria
Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 20-29. Webster, 1973, p. 329.
Devonian, Pragian (Siegenian). Morocco
Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 30-31. Webster, 1973, p.

329.
Devonian, Pragian (Siegenian). Morocco
Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 36-37. Webster, 1973, p. 329.
Devonian,Emsian (Coblenzian). Morocco
Termier, G. and Termier, H., 1950, p. 232, Pl. 224, figs. 38-45. Webster, 1973, p. 329.
Mississippian, late Viséan. Morocco
Termier, G. and Termier, H., 1950, p. 234, Pl. 225, figs. 4-5. Webster, 1973, p. 329.
Mississippian, late Viséan: Algeria
Termier, G. and Termier, H., 1950, p. 234, Pl. 225, figs. 10-11. Webster, 1973, p. 329.
Mississippian, late Viséan: Algeria
Termier, G. and Termier, H., 1950, p. 234, Pl. 225, figs. 21-22. Webster, 1973, p. 329.
Pennsylvanian, early Westphalian: Algeria
Termier, G. and Termier, H., 1950, p. 234, Pl. 225, figs. 23-28. Webster, 1973, p. 329.
Pennsylvanian, early Westphalian: Algeria

Indeterminate ?cladid crinoid Simms and Sevastopulo, 1993, p. 95, Pl. 1, fig. 9.
Early Carboniferous, Ironstone Beds. United Kingdom

Indeterminate cladid inadunate Donovan, 1986d, p. 36, Fig. 14, nos. C-D. Webster, 1993, p. 165.
Ordovician, Darriwilian (late Llanvirnian), Tramore Limestone. United Kingdom

IOCRINUS Hall, 1866.
Webster, 1993, p. 165.
Recognized number of named columnal species: 9 Ordovician species, 1 Dapingian, 1 Darriwilian, 1 Sandbbian – Katian, 6 Katian
Ordovician, Darriwilian - Katian. United Kingdom
Ordovician, Katian. United States, Estonia, Russia

Iocrinus brithdirensis Bates, 1965. Donovan, 1986d, p. 25, Fig. 12, no. K. Webster, 1993, p. 165.
Ordovician, Darriwilian (early Llanvirnian). United Kingdom

Iocrinus comptus (Yeltyschewa, 1960). Yeltsychewa, 1979, p. 96, Pl. 2, fig. 8. Webster, 1986, p. 361.
Pentagonopentagonalis comptus Yeltsychewa, 1960. Yeltsychewa, 1979, p. 95. (**Note**. The same specimens of *P. comptus* were illustrated by Yeltyschewa in 1955a and 1960. GDW).
Late Ordovician, Katian, Vormsi Horizon. Estonia

Iocrinus mannili Yeltyschewa, 1979, p. 95, Pl. 2, fig. 1. Webster, 1986, p. 361.
Late Ordovician, Katian, Vormsi Horizon. Estonia

Iocrinus? mannili Yeltyschewa, 1979. Stukalina, 1986, p. 133, Pl. 14, figs. 14-17 (typographical error as *Jocrinus* on plate explanation). Stukalina, 1988c, p. 60, Pl. 7, figs. 14-17. Webster, 1993, p. 165.
Late Ordovician, Katian, Pirgu Horizon. Estonia

Iocrinus sp. cf. *I. pauli* Donovan and Gale, 1989. Donovan, 1991c, p. 34, Fig. 22.
Middle Ordovician, Darriwilian. United Kingdom

Iocrinus shelvensis Ramsbottom, 1961. Donovan, 1986d, p. 27, Pl. 1, figs. 3-4, 8-9; Fig. 12, nos. A-J. Webster, 1993, p. 166.
Ordovician, Dapingian (late Llanvirnian), Weston Beds. United Kingdom

Iocrinus stem fragment Morris and Felton, 2003, p. 551, Fig. 2, no. E.
Late Ordovician, Katian (Cincinnatian), Waynesville Formation. United States, Ohio

Iocrinus subcrassus (Meek and Worthen, 1865). Moore and Jeffords, 1968, p. 32, Pl. 1, fig. 3. Webster, 1973, p. 298. Titus, 1979, p. 112, Figs. 7, no. 8; 8, no. 2. Webster, 1986, p. 361. Ausich, 1996b, p. 244, Fig. 17-4, nos. 8-9. Meyer et al., 2002, p. 727, Fig. 2, nos. 3, 10.
Ordovician, Katian (early Trentonian), Liberty Formation, Kope and Fairview Formations. United States, New York, Ohio, Kentucky

Iocrinus trentonensis Titus, 1979, p. 112, Fig. 7, no. 6. Webster, 1986, p. 361.
Ordovician, Katian (early Trentonian). United States, New York

Iocrinus vostokovae Yeltyschewa, 1979, p. 94, Pl. 2, figs. 2-3. Webster, 1986, p. 361.
Late Ordovician, Katian, Vezenberg Horizon, Vormsi Horizon. Estonia

Iocrinus wesenbergensis Yeltyschewa, 1979, p. 95, Pl. 1, figs. 1-2. Webster, 1986, p. 361.
Late Ordovician, Katian, Vezenberg Horizon. Russia, Pribaltic

Iocrinus whitteryi Ramsbottom, 1961. Donovan, 1989d, p. 73, Pl. 13, fig. 12. Webster, 1993, p. 166.
Ordovician, Sandbian – Katian (Caradocian). United Kingdom

IRUCRINUS Stukalina, 1986 = ***JRUCRINUS***

Isolated columnals of Crinoidea indet. Bohaty and Herbig, 2010, p. 372, Fig. 7, nos. u-v.
Devonian, middle Givetian, middle of Büchel Formation, Schlade event layer. Germany, Rhenish Massif

IVDELICRINUS Stukalina, 1977. **I. ivdelensis* Stukalina, 1977.
Stukalina, 1977c, p. 156. Webster, 1986, p. 361.
Recognized number of named columnal species: 1 Devonian, Eifelian species
Middle Devonian, Eifelian. Russia

**Ivdelicrinus ivdelensis* Stukalina, 1977c, p. 157, Pl. 31, fig. 10; Fig. 23. Webster, 1986, p. 361.
Middle Devonian, Eifelian. Russia, Central Ural Mountains

Joint of a crinoid stem Lincklaen, 1861, Pl. 13, fig. 5.
Silurian, Clinton Group. United States, New York

JRUCRINUS Stukalina, 1982. **Decacrinus antiquus* Yeltyschewa, 1964.
Stukalina, 1982a, p. 194. Stukalina, 1986, p. 72. Webster, 1988, p. 193. Webster, 1993, p. 166.
IRUCRINUS Stukalina, 1986, p. 72.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Middle Ordovician, Darriwilian. Estonia; European Platform

**Jrucrinus antiquus* (Yeltyschewa, 1964). Stukalina, 1982a, p. 194. Stukalina, 1986, p. 72, Pl. 17, fig. 18; Fig. 9, no. 3 (typographical error as *Irucrinus antiquus* on figure explanation) . Stukalina, 1988c, p. 58, Pl. 5, fig. 4. Webster, 1988, p. 193. Webster, 1993, p. 166.
Decacrinus antiquus Yeltyschewa, 1964a, p. 66, Pl. 3, figs. 7-9. Webster, 1973, p. 288. Webster, 1988, p. 193.
Early Ordovician, Darriwilian, Kunda Horizon. Estonia, Northwestern East European Platform

Juvenile holdfasts Hollis and Ausich, 2009, p. 143, Fig. 9, nos. A-C.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana

KABANICRINUS Yeltyschewa and Stukalina, 1977. **K. lobatus* Yeltyschewa and Stukalina, 1977.
Yeltyschewa and Stukalina, 1977, p. 217. Webster, 1986, p. 362. Webster, 1988, p. 193.
Recognized number of named columnal species: 1 Middle Devonian species
Middle Devonian. Russia; Poland

**Kabanicrinus lobatus* Yeltyschewa and Stukalina, 1977, p. 218, Pl. 2, figs. 4-10. Gluchowski, 1981b, p. 49, Pl. 2, fig. 12. Webster, 1986, p. 362. Webster, 1988, p. 193.
Devonian, Eifelian. Russia, Nova Zemlya
Devonian, Eifelian. Poland

KAINAROCRINUS Rakhmonov, 2008. **Kainarocrinus karatagensis* Rakhmonov, 2008.
Rakhmonov, 2008, 253.
Recognized number of named columnal species: 1Devonian, Eifelian species
Devonian, Eifelian. Uzbekistan

**Kainarocrinus karatagensis* Rakhmonov, 2008, p. 253, Pl. 109, figs. 25-26.
Devonian, Eifelian, Khodzhakurgan Formation, Novikhuskh Beds. Uzbekistan,

Zeravshan Range

KALGACRINUS Stukalina, 1979. **Pentagonopentagonalis kalginensis* Yeltyschewa, 1968.
Stukalina, 1979a, p. 147. Stukalina, 1986, p. 60. Webster, 1986, p. 362. Webster, 1988, p. 193. Webster, 1993, p. 166.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. Russia

**Kalgacrinus kalginensis* (Yeltyschewa, 1968). Stukalina, 1979a, p. 147. Stukalina, 1982c, p. 179, Fig. 10, no. 1. Stukalina, 1986, p. 60, Pl. 11, fig. 1. Webster, 1986,
p. 362. Stukalina, 1988c, p. 58, Pl. 5, fig. 3. Webster, 1988, p. 193. Webster, 1993, p. 166.
Pentagonopentagonalis kalginensis Yeltyschewa, 1968, p. 126, Pl. 23, figs. 3-6. Stukalina, 1979a, p. 147. Webster, 1986, p. 362. Webster, 1988, p. 204.
Ordovician, Darriwilian, Tarynyurakh Suite; Volgin Horizon; Elgenchat Horizon.
Russia, Siberian Platform, Far East

KAPLUNAECRINUS Stukalina, 1977 = ***KAPLUNICRINUS***

Kaplunaecrinus kaplunae (Stukalina, 1977) = *Kaplunicrinus kaplunae*

Kaplunaecrinus rimosus (Schewtschenko, 1966) = *Kaplunicrinus rimosus*

KAPLUNICRINUS Stukalina, 1977. **K. kaplunae* Yeltyschewa and Stukalina *in* Stukalina, 1977.
Stukalina, 1977c, p.157. Webster, 1986, p. 362. Webster, 1988, p. 193.
KAPLUNAECRINUS Stukalina, 1986, p. 72. Webster, 1993, p. 166.
Recognized number of named columnal species: 2 Devonian species, 1 Pragian, 1 uncertain
Early Devonian. Russia
qDevonian, Pragian. Kazakhstan; Russia

**Kaplunicrinus kaplunae* Yeltyschewa and Stukalina *in* Stukalina, 1971, p. 197, Pl. 2, fig. 18 (*nomen nudum*). Stukalina, 1977c, p. 158, Pl. 31, figs. 12-14; Fig. 24. Webster, 1977, p. 203. Stukalina, 1978c, p. 56, Pl. 13, fig. 14. Stukalina, 1978d, p. 73, Unnum. Fig. p. 72. Stukalina, 1982d, p. 140, Unnum. Fig. p. 141. Webster, 1986, p. 362. Webster, 1988, p. 193. Webster, 1993, p. 166.
Kaplunaecrinus kaplunae (Yeltyschewa and Stukalina, 1971). Stukalina, 1986, p. 72, Pl. 17, figs. 1-15; Tab. 5. Stukalina, 1988c, p. 64, Pl. 13, figs. 5-13; Fig. 31. Stukalina, 1991, p. 183, Pl. 42, figs. 1-8; Fig. 16, nos. d-e. Webster, 1993, p. 166.
Devonian, Pragian (Siegenian), Sardzhal Horizon, Layer with *Acrospirifer primaevus*. Russia, Ural Mountains, Altai Mountains, Far East, Salair
Devonian,Pragian (Siegenian). Kazakhstan

Kaplunicrinus rimosus (Schewtschenko, 1966). Webster, 1993, p. 166.

Kaplunaecrinus rimosus (Schewtschenko, 1966). Stukalina, 1986, p. 73, Tab. 5. Stukalina, 1988c, Fig. 31. Webster, 1993, p. 166.
Early Devonian. Russia

KARAKOLOCRINUS Stukalina, 1982. **Pentagonopentagonalis rariusculus* Schewtschenko, 1971.
Stukalina, 1982a, p. 193. Stukalina, 1986, p. 71. Webster, 1988, p. 194. Webster, 1993, p. 166. Stukalina, 1998, p. 22.
Recognized number of named columnal species: 2 Silurian species, 1 Wenlockian, 1 uncertain
Silurian, Wenlockian. Kazakhstan or Tadzhikstan
Late Silurian. Kazakhstan

Karakolocrinus laticanalis Stukalina, 1986, p. 141, Pl. 32, fig. 12 (*nomem nudum*) no description. Webster, 1993, p. 166.
Late Silurian, upper part of Akkan Horizon. Kazakhstan

**Karakolocrinus rariusculus* (Schewtschenko, 1971). Stukalina, 1982a, p. 193. Webster, 1988, p. 194.
Pentagonopentagonalis rariusculus Schewtschenko, 1971, p. 20, Pl. 4, fig. 8; Fig. 22. Webster, 1977, p. 215. Webster, 1988, p. 194.
Silurian, Wenlockian. Kazakhstan or Tadzhistan, Zeravshan-Gissar Mountain Region

KASACHSTANOCRINUS Sisova *in* Schewtschenko, 1966. **K. asperum* Schewtschenko, 1966.
Sisova *in* Schewtschenko, 1966, p. 158. Skoropisceva, 1969, p. 37. Dubatolova, 1971, p. 41. Stukalina, 1973, p. 39. Webster, 1973, p. 298. Webster, 1977, p. 204. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 70. Webster, 1986, p. 362. Webster, 1988, p. 194. Webster, 1993, p. 167. Stukalina, 1998, p. 21.
Recognized number of named columnal species: 9 species. 7 Devonian, 1 Emsian, 1 Early Devonian uncertain, 2 Eifelian, 1 Givetian, 1 Eifelian – Givetian, 1 Givetian – Frasnian; 1 Devonisn, Famennian – Mississippian, tournaisian; 1 Pennsylvanian? – Early Permian
Devonian - Mississippian. Kazazkhstan, Tien Shan
Devonian – Early Permian. Russia
Devonian. Eifelian – Frasnian. Poland
Devonian, Emsian. France

Kasachstanocrinus acutilobus Dubatolova, 1975a, p. 10, Pl. 1, figs. 11-15; Fig. 3. Gluchowski, 1981b, p. 38, Pl. 3, fig. 13. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 3. Webster, 1986, p. 362. Webster, 1988, p. 194. Gluchowski, 1993a, p. 52, Fig. 8, nos. A-B.
Devonian, Eifelian-Givetian boundary, Beisk Horizon; Skaly Beds; Eifelian, "Dabrowa Limestone"; Givetian, Laskowa Gora Beds, Szydlowek beds,

Stringocephalus Beds; Crinoid-Coral level; Jazwica Member. Russia, Southern Minusin Basin; Poland

**Kasachstanocrinus asperum* Schewtschenko, 1966, p. 159, Pl. 4, fig. 19; Fig. 29. Skoropisceva, 1969, p. 37. Dubatolova, 1971, p. 41, Pl. 4, fig. 16; Fig. 14. Webster, 1973, p. 298. Webster, 1977, p. 204.
Devonian, Givetian, Pandzhrutskian Horizon. Russia, Salair
Devonian, Givetian, Pandzhrutskian Horizon. Kazakhstan, Tien Shan Mountains, Zeravshan Mountains

Kasachstanocrinus borsjiensis Yeltsychewa and Skoropisceva *in* Skoropisceva, 1969, p. 38, Pl. 3, figs. 1-2. Yeltyschewa and Stukalina *in* Stukalina, 1973, p. 41, Pl. 4, figs. 11-13. Webster, 1977, p. 204.
Pennsylvanian?- Early Permian. Russia, Zabaikale, Verkhoyane, Transbaikal

Kasachstanocrinus formosus Yeltyschewa and Sizova, 1973 = **Formosocrinus formosus*

Kasachstanocrinus aff. *latus* Sisova *in* Yeltyschewa and Dubatolova, 1967. Webster, 1973, p. 298.
Kasakhstanocrinus aff. *latus* Sisova in Yeltyschewa and Dubatolova, 1967, p. 48, Pl. 4, fig. 19 (sic).
Mississippian. Russia, Upper Priamur
Mississippian. Kazakhstan

Kasachstanocrinus multigenus Dubatolova, 1971, p. 42, Pl. 4, figs. 2-4; Fig. 15. Webster, 1977, p. 204.
Early Devonian. Russia, Salair

Kasachstanocrinus pentamerus Yeltyschewa and Sisova, 1973, p. 92, Pl. 1, figs. 15-16; Fig. 5. Webster, 1977, p. 204.
Devonian, Eifelian. Russia, Pribalkhash
Devonian, Eifelian. Kazakhstan

Kasakhstanocrinus pulcher (Yeltyschewa, 1959) = *Pentaridica pulcher*

Kasachstanocrinus aff. *quinqueangularis* Dubatolova, 1964. Dubatolova, 1975a, p. 11, Pl. 2, figs. 1-2; Fig. 4. Webster, 1986, p. 362.
Devonian, Eifelian, Tashtip Horizon. Russia, Southern Minusin Basin

Kasachstanocrinus soboleevi Yeltyschewa and Sizova, 1973, p. 98, Pl. 1, fig. 17; Fig. 8. Webster, 1977, p. 204.
Devonian, Famennian - Mississippian, Tournaisian. Russia, Pribalkhash
Devonian, Famennian - Mississippian, Tournaisian. Kazakhstan,

Kasachstanocrinus spatius Le Menn, 1985, p. 112, Pl. 25, figs. 4-6. Webster, 1988, p. 194.
Devonian, late Emsian, Beg an Arreun Limestone. France, Armorican Massif

Kasachstanocrinus stellatus Yeltyschewa and Sisova, 1973, p. 94, Pl. 1, fig. 8; Fig. 7. Webster, 1977, p. 204.
Early Devonian. Russia, Pribalkhash
Early Devonian. Kazakhstan

Kasachstanocrinus tenuis Gluchowski, 1993a, p. 67, Fig. 8, no. C-D.
Devonian, Givetian-Frasnian, *Stringocephalus* Beds, Crinoid-Coral level, Jazwica Member, lower part of Sitkowka Beds; Givetian Dziewki Limestone. Poland

Kasachstanocrinus torosus Dubatolova, 1982, p. 82, Pl. 2, figs. 8-9; Fig. 8. Dubatolova, 1984, p. 114, Pl. 13, figs. 7-9; Fig. 4. Webster, 1988, p. 194.
Devonian, Eifelian, Vechernin Suite. Russia, Northeastern Salair, Omulev Mountains

Kasakhstanocrinus aff. *latus* Sisova in Yeltyschewa and Dubatolova, 1967 = *Kasachstanocrinus* aff. *latus*

Kasachstanocrinus sp. Gluchowski, 2002, p. 322, Fig. 2, no. A.
Devonian, Famennian, *Pa. triangularis* to *S. praesulcata* Biozones. Poland

KELLERICRINUS Stukalina, 1985. **K. angularis* Stukalina, 1985.
Stukalina, 1985a, p. 186. Stukalina, 1986, p. 68. Webster, 1988, p. 194. Webster, 1993, p. 167.
Recognized number of named columnal species: 2 Ordovician, Sandbian species
Late Ordovician, Sandbian. Kazakhstan

**Kellericrinus angularis* Stukalina, 1985a, p. 186, Pls. 2, fig. 20; 3, fig. 1. Stukalina, 1988c, p. 59, Pl. 5, figs. 16-17. Webster, 1993, p. 167.
Late Ordovician, Sandbian, Sartanmanay Limestone. Kazakhstan

Kellericrinus torosus Stukalina, 1985a, p. 187, Pl. 3, fig. 2.
Late Ordovician, Sandbian. Kazakhstan

KERDREOLETOCRINUS Le Menn, 1985. **K. kerdreletensis* Le Menn, 1985.
Le Menn, 1985, p. 145. Webster, 1988, p. 194. Ebert, 1994, p. 51.
Recognized number of named columnal species: 3 Devonian species, 2 Emsian, 1 Emsian – Eifelian
Devonian, Emsian. France, Poland
Devonian, Eifelian. Germany

**Kerdreoletocrinus kerdreletensis* Le Menn, 1985, p. 146, Pl. 32, figs. 6-10, 15; Fig. 56. Webster, 1988, p. 194.
Devonian, late Emsian, Verveur Formation. France, Armorican Massif

Kerdreoletocrinus prioldyensis Le Menn, 1985, p. 147, Pl. 32, figs. 11-14. Webster, 1988, p. 194.

Devonian, late Emsian, Beg an Arreun Limestone. France, Armorican Massif

Kerdreoletocrinus spinosus Le Menn, 1985, p. 148, Pl. 32, figs. 16-18. Webster, 1988, p. 194. Gluchowski, 1993b, p. 170, Pl. 5, figs. 1-2. Ebert, 1994, p. 51, Pl. 3, figs. 11, 15; Figs. 51-52, 61, no. b; 62, no. b; 71-73.
Devonian, late Emsian, Bolast Formation. France, Armorican Massif
Devonian, late Emsian, Bukowa Gora Shale Formation. Poland
Devonian, early Eifelian, Hobräck Formation, Stöppel Formation; Olper-Tonschiefer Formation, upper part of *Speciosus* Formation. Germany

Kerdreoletocrinus sp. Ebert, 1994, p. 53, Figs. 65, no. b; 72-73.
Devonian, Eifelian, Mählenberg Formation; Unnenberg Formation. Germany

KESHICRINUS Rakhmonov, 2008. **Keshicrinus obisafitensis* Rakhmonov, 2008.
Rakhmonov, 2008, p. 253.
Recognized number of named columnal species: 1 Devonian, Emsian species
Devonian, Emsian. Uzbekistan

**Keshicrinus obisafitensis* Rakhmonov, 2008, p. 253, Pl. 109, figs. 23-24.
Devonian, Emsian, Obisafit Beds. Uzbekistan, Zeravshan Range

KITABICRINUS Stukalina, 1978. **K. longus* Stukalina, 1978.
Stukalina, 1978a, p. 160. Stukalina, 1986, p. 76. Webster, 1986, p. 362. Webster, 1993, p. 167.
Recognized number of named columnal species: 1Silurian, Llandoverian species
Silurian, Llandoverian. Uzbekistan, Tien Shan

**Kitabicrinus longus* Stukalina, 1978a, p. 160, Pl. 35, figs. 14-16. Stukalina, 1986, p. 76, Pl. 18, figs. 10-11. Webster, 1986, p. 363. Webster, 1993, p. 167. Rakhmonov, 2008, p. 129, Pl. 108, figs. 11-14.
Silurian, Llandovery, Minkuchar Layer. Uzbekistan, Southern Tien Shan

Klunnikowicrinidae Stukalina, 1986, p. 92, Fig. 26, no. 7. Stukalina, 1988c, p. 39, Fig. 22, no. 7. Webster, 1993, p. 167.
Early Silurian. Uzbekistan

KLUNNIKOWICRINUS Schewtschenko, 1971. **Pentagonopentagonalis klunnikowi* Schewtschenko, 1964.
Schewtschenko, 1971, p. 9. Webster, 1977, p. 205. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 58, 93, Fig. 27, no. 4. Stukalina, 1988c, p. 39, Fig. 23, no. 4. Webster, 1993, p. 167.
Recognized number of named columnal species: 2 Silurian, Wenlockian species
Silurian, Wenlockian. Tadzhikstan, Tien Shan

Klunnikowicrinus fidus Schewtschenko, 1971, p. 10, Pl. 2, fig. 9; Fig. 8. Webster, 1977, p. 205.
Silurian, early Wenlockian. Tadzhikstan, Zeravshan-Gissar Mountain Region

**Klunnilkowicrinus klunnikowi* (Schewtschenko, 1964). Schewtschenko, 1971, p. 9, Pl. 2, fig. 10; Fig. 7. Webster, 1977, p. 205.
Pentagonopentagonalis klunnikowi Schewtschenko, 1964, p. 15, Pls. 1, fig. 2; 4, fig. 1. Schewtschenko, 1968a, p. 282, Pl. 66, fig. 5; Fig. 34. Schewtschenko, 1971, p. 9. Webster, 1973, p. 312. Webster, 1977, p. 205.
Silurian, early Wenlockian. Tadzhikstan, Zeravshan-Gissar Mountain Region, Tien Shan Mountains,

KOJVICRINUS Vanin, 1980. **K. orciformis* Vanin, 1980.
Vanin, 1980, p. 121. Webster, 1986, p. 363.
Recognized number of named columnal species: 1 Permian, Artinskian species
Permian, Artinskian. Russia

**Kojvicrinus orciformis* Vanin, 1980, p. 121, Pl. 24, figs. 10-11. Webster, 1986, p. 363.
Permian, Artinskian. Russia, Central Ural Mountains

KONICRINUS Sisova, 1988. **K. compositus* Sisova, 1988.
Sisova, 1988, p. 153. Webster, 1993, p. 167.
Recognized number of named columnal species: 2 species. 1 Devonian, Famennian; 1 Mississippian, Serpukhovian
Devonian, Famennian. Kazakhstan

**Konicrinus compositus* Sisova, 1988, p. 154, Pl. 1, figs. 11a-11v. Webster, 1993, p. 167.
Devonian, Famennian, Simorin Horizon. Kazakhstan
Mississippian, Serpukhovian. Russia

Konicrinus? *excentricus* Arendt, 2002, p. 137, Pls. 6, figs. 2a-2c; 15, figs. 1-3, 6, 9; Fig. 4, nos. e-i.
Mississippian, early Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

KOTANOCRINUS Stukalina, 1977. **K. balaensis* Stukalina, 1977.
Stukalina, 1977c, p. 153. Stukalina, 1978c, p. 130, Pl. 13, fig. 10. Stukalina, 1986, p. 69. Webster, 1986, p. 363. Webster, 1988, p. 194. Webster, 1993, p. 167.
Recognized number of named columnal species: 11 Late Silurian – Early Devonaian.
species
Late Silurian - Early Devonian. Kazakhstan, Poland
Silurian , Podiasian. Poland

**Kotanocrinus balaensis* Stukalina, 1977c, p. 154, Pl. 31, fig. 8. Gluchowski, 1981b, p. 38, Pl. 2, fig. 1. Stukalina, 1986, p. 69, Pl. 15, fig. 26. Webster, 1986, p. 363. Stukalina, 1988c, p. 63, Pl. 11, fig. 25. Webster, 1988, p. 195. Stukalina, 1991, p. 176, Fig. 14, no. i. Webster, 1993, p. 167.
Late Silurian - Early Devonian, Sardzhal Horizon. Central Kazakhstan
Late Silurian - Early Devonian, Sardzhal Horizon. Poland

Kotanocrinus cf. *balaensis* Stukalina, 1977. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 292, Pl. 108, fig. 20.
Silurian, Podlasian. Poland

KOTLYARAECRINUS Kurilenko, 2002. **Kotlyaraecrinus haraschibiricus* Kurilenko, 2002.
Kurilenko *in* Kurilenko et al., 2002, p.264.
Recognized number of named columnal species: 1 Pennsylvanian, Bashkirian species
Pennsylvanian, early Bashkirian. Russia, Transbaikal

**Kotlyaraecrinus haraschibiricus* Kurilenko *in* Kurilenko et al., 2002, p. 265, Pl. 95, fig. 18.
Pennsylvanian, early Bashkirian. Russia, Far East, Transbaikal

Krinit Roemer, F. A., 1866b, p. 233.
Mississippian. Germany

Krinoidenstiel
Fric, 1869, p. 17, Fig. 56.
Late Silurian, Stage F: Czech Republic
Dacqué, 1921, p. 465, Fig. 221, no. B.
Mississippian. United States, Indiana
Dacqué, 1921, p. 469, Fig. 224, nos. A-B.
Devonian, Eifelian. Germany

Krinoidenstielen Dacqué, 1921, p. 470, Fig. 225, nos. A-B.
No age given.

Krinoidenwurzeln Typ I Ganss, 1937, p. 20, Figs. 3, 5-6.
Ordovician. Germany

Krinoidenwurzeln Typ II Ganss, 1937, p. 20.
Ordovician. Germany

Krinoidenwurzeln Typ III Ganss, 1937, p. 20, Figs. 2-3.
Ordovician. Germany

Krinoidenwurzeln Typ IV Ganss, 1937, p. 20, Figs. 2-3.
Ordovician. Germany

Krinoidenwurzeln Typ V (wahrscheinlich eines Cystoiden) Ganss, 1937, p. 20, Fig. 2.
Ordovician. Germany

KSTUTOCRINUS Schewtschenko, 1966. **K. sublatus* Schewtschenko, 1966.
Schewtschenko, 1966, p. 160. Webster, 1973, p. 299. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 80. Webster, 1986, p. 363. Webster, 1988, p. 195. Webster, 1993, p. 167.

Recognized number of named columnal species: 6 species. 1 Silurian. Wenlockian; 5 Devonian, 1 Emsian, 4 Givetian
Silurian, Wenlockian. Russia
Devonian, Givetian. Tadzhikstan, Tien Shan Mountains
Devonian, late Emsian. France

Kstutocrinus depressus Le Menn, 1985, p. 176, Pl. 39, figs. 11-15. Webster, 1988, p. 195.
Devonian, late Emsian, Beg an Arreun Formation. France, Armorican Massif

Kstutocrinus doliaris Schewtschenko, 1966, p. 161, Pl. 6, figs. 13-15; Fig. 31. Webster, 1973, p. 299.
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Kstutocrinus exsculptus Schewtschenko, 1966, p. 161, Pl. 6, fig. 10; Fig. 32. Webster, 1973, p. 299.
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Kstutocrinus primus Yeltyschewa, 1975, p. 130, Pl. 2, figs. 16-21. Gluchowski, 1981b, p. 49, Pl. 1, fig. 1. Webster, 1986, p. 363. Webster, 1988, p. 195. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 294, Pl. 108, fig. 1.
Silurian, Wenlockian, Biel, Kitaigorod Horizon, Demshin Layer: Russia, Podolia; Poland

Kstutocrinus rugellosus Schewtschenko, 1966, p. 162, Pl. 6, fig. 19; Fig. 33. Webster, 1973, p. 299.
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Kstutocrinus sublatus Schewtschenko, 1966, p. 160, Pl. 6, figs. 11-12; Fig. 30. Webster, 1973, p. 299.
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Kstutocrinus spp.
Gluchowski, 2002, p. 323, Fig. 3, nos. L-N.
Devonian, Famennian, *Pa. triangularis* to *Pa. marginifera* Biozones. Poland
Gluchowski, Casier, and Olempska, 2006, p. 699, Fig. 3, no. J.
Devonian, early middle Frasnian, middle part of Wietrznia Beds. Poland

Kstutocrinus ? spp.
Le Menn, 1981, p. 271, Pls. 32, fig. 7; 33, figs. 26-27 (not Pls. 33, figs. 26-27; 32, fig. 7 as given p. 271). Webster, 1988, p. 195.
Devonian, late Emsian. France, Armorican Massif
Le Menn, 1985, Pl. 39, figs. 16-17. Webster, 1988, p. 195.
Devonian, late Emsian, Marettes Formation. France, Armorican Massif
Gluchowski, 1993a, p. 62, Fig. 13, no. L.
Devonian, Givetian - Frasnian, Laskowa Gora Beds, lower part of Wietrznia Beds; upper part of Sitkowka Beds; Kostomloty Beds, Detrital Bed; *Manticoceras* Limestone; Marly Beds. Poland

KUZBASSOCRINUS Yeltyschewa, 1957. **K. bystrowi* Yeltyschewa, 1957.

Yeltsychewa, 1957, p. 223. Schewtschenko, 1966, p. 133. Dubatolova, 1971, p. 54. Webster, 1973, p. 300. Webster, 1977, p. 205. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 81. Webster, 1986, p. 363. Webster, 1993, p. 168.

Note. *Kuzbassocrinus* was considered a synonym of *Melocrinites* by Schewtschenko, 1966. However, *Kuzbassocrinus* has been accepted by Dubatolova as well as Stukalina in a series of papers between 1971 and 1988. Although I believe there may be merit to accepting the synonomy of Schewtschenko, for the present I am leaving the species as they have been assigned by the latest worker, as some of the species may belong to other genera. GDW,2003

Recognized number of named columnal species: 10 Devonian species, 1 Pragian, 1 Emsian, 1 Early Devonian uncertain, 1 Eifelain, 3 givetian, 2 Early – Middle Devonian uncertain. 1 Devpnian uncertain

Devonian, Pragian. Czech Republic

Early Devonian, Kazakhstan

Early - Middle Devonian. Tadzhikstan

Early – Middle Devonian, Permain, Dorashamian. Russia

Devonian, Emsian. Poland

Kuzbassocrinus binidigitatus Yeltyschewa, 1957, p. 224, Pl. 2, fig. 3; Fig. 4. Dubatolova, 1964, p. 55, Pl. 7, fig. 6. Yeltyschewa and Dubatolova, 1967, p. 35, Pl. 4, figs. 1-6; Fig. 15. Modzalevskaya, 1967, p. 546, Pl. 4, fig. 21. Yeltyschewa, 1969, p. 158, Pl. 41, figs. 1-2. Dubatolova, 1971, p. 54, Pl. 7, figs. 1-3; Fig. 22. Webster, 1973, p. 301. Webster, 1977, p. 205. Stukalina, 1978c, p. 60, Pl. 14, figs. 6-7. Stukalina, 1986, p. 81, Pl. 20, figs. 15-16; Tab. 5. Webster, 1986, p. 363. Dubatolova, 1988, p. 69, Pl. 14, figs. 9-11, Unnum. Fig. p. 68, no. v. Stukalina, 1988c, p. 64, Pl. 12, figs. 14-15; Fig. 31. Gluchowski, 1993b, p. 165, Pl. 1, fig. 5. Webster, 1993, p. 168. Kurilenko *in* Kurilenko, et al., 2002, p. 163, Pls. 58, fig. 5; 60, figs. 1-6. Kurilenko and Kulkov, 2008, p. 464, Fig. 3, nos. E, J.

Melocrinites binidigitatus (Yeltyschewa, 1957). Schewtschenko, 1966, p. 140, unfig.

Early - Middle Devonian Jmatchin Suite, Losishin Layer; upper part of Bolshenever Suite, Ildicann Suite, upper part of Beloubin Suite. Russia, Far East, northern Urals, Altai Mountains, Upper Amur Basin, Kuznetz Basin

Devonian, late Emsian, Zagorze Formation. Poland

Kuzbassocrinus binidigitatus Stukalina, 1978 (part) = *Amazaricrinus ildicanensis*

Kuzbassocrinus cf. *binidigitatus* Yeltyschewa, 1957. Ebert, 1994, p. 33, Pl. 1, figs. 18-19, 21-22; Fig. 29.

Devonian, Eifelian, Upper part of *Speciosus* Formation, Laucher Schichten. Germany

**Kuzbassocrinus bystrowi* Yeltyschewa, 1957, p. 223, Pl. 2, figs. 1-2; Fig. 3. Yeltyschewa and Dubatolova, 1961, p. 555, Pl. D-87, fig. 7. Dubatolova, 1964, p. 53, Pls. 6, fig. 7; 7, figs. 2-3. Moore and Jeffords, 1968, p. 36, Pl. 2, fig. 3.

Webster, 1973, p. 301. Milicina, 1977a, p. 142, Pl. 57, figs. 11-12. Stukalina, 1986, p. 81, Pl. 20, figs. 12-14; Tab. 5. Webster, 1986, p. 363. Stukalina, 1988c, Figs. 13, no. 3; 31. Webster, 1993, p. 168.

Melocrinites bystrowi (Yeltyschewa, 1957). Schewtschenko, 1966, p. 134, Pl. 1, figs. 1-4, 8, 10-11. Webster, 1973, p. 301.

Early - Middle Devonian, Tadzhikist Horizon; Saum Horizon; Shandin Stage. Tadzhikstan, Tien Shan Mountians

Kuzbassocrinus cf. *bystrowi* Yeltyschewa, 1957. Prokop and Petr, 1996, p. 220, Pl. 1, figs. 1-6.

Early Devonian, Pragian, Koneprusy Limestone. Czech Republic

Kuzbassocrinus decemlobatus Yeltyschewa, 1957, p. 225, Pl. 1, figs. 8-9; Fig. 5. Dubatolova, 1964, p. 52, Pl. 6, fig. 6. Yeltyschewa and Dubatolova, 1967, p. 34, Pl. 4, fig. 9. Modzalevskaya, 1967, p. 545, Pl. 3, fig. 5. Yeltyschewa, 1969, p. 158, Pl. 24, figs. 3a-3b. Milicina, 1970, p. 100, Pl. 28, figs. 1-3; Fig. 9. Webster, 1973, p. 301. Webster, 1977, p. 205. Milicina, 1977a, p. 143, Pl. 59, fig. 1. Webster, 1986, p. 363. Stukalina, 1988c, Fig. 13, no. 1. Stukalina, 1991, p. 192. Webster, 1993, p. 168. Kurilenko, 2001, p. 45, Pl. 1, figs. 7-8; Fig. 2, no. a. Kurilenko *in* Kurilenko, et al., 2002, p. 162, Pls. 56, fig. 12; 58, figs. 1-4. Kurilenko and Kulkov, 2008, p. 464, Fig. 3, no. I.

Melocrinites decemlobatus (Yeltyschewa, 1957). Schewtschenko, 1966, p. 138, Pls. 2, fig. 14; 3, figs. 11-14. Webster, 1973, p. 301.

Early Devonian, Bolshenever Suite, Pribalkhash Layer; Vizhaich Horizon; Toshem Horizon. Russia, Tien Shan Mountains, Kuznetz Basin, Kazakhstan, Far East, Tadzhikstan, Upper Priamur, Pribalkhash, Ural Mountains

Devonian, Pragian, Ildican Suite, Bolshoi Never Suite. Russia, Far East, Transbaikal

Kuzbassocrinus impalpabilis Dubatolova, 1968, p. 146, Pl. 15, figs. 4-6; Fig. 4. Webster, 1973, p. 301.

Melocrinites impalpabilis (Dubatolova, 1968). Webster, 1973, p. 301.

Devonian, Tom-Chum Horizon. Russia, Salair

Kuzbassocrinus lanceolatus (Schewtschenko, 1966). Stukalina, 1988c, Fig. 13, no. 2. Webster, 1993, p. 168.

Melocrinites lanceolatus Schewtschenko, 1966, p. 143, Pl. 2, figs. 5-6; Fig. 13. Webster, 1973, p. 301. Webster, 1993, p. 168.

Devonian, Givetian Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Kuzbassocrinus marmoreus Dubatolova, 1980, p. 118, Pl. 16, figs. 4-5; Fig. 11. Webster, 1986, p. 364.

Devonian, late Emsian, Kriukovian Suite, Zlikhov Layer. Russia, Altai Mountains

Kuzbassocrinus minimus Stukalina, 1977 = *Amazaricrinus minimus*

Kuzbassocrinus paucicostatus Yeltyschewa, 1957 = **Tastijicrinus paucicostatus*

Kuzbassocrinus senkevitschae Stukalina, 1991, p. 193, Pl. 47, figs. 7-9; Fig. 18, nos. a-b.
Early Devonian, Sardzhak - Kazakh? Horizon. Kazakhstan

Kuzbassocrinus spatulatus Le Menn, 1976 = *Tastjicrinus spatulatus*

Kuzbassocrinus subtilus (Schewtschenko, 1966). Dubatolova, 1971, p. 52, Pl. 6, figs. 1-2; Fig. 20. Webster, 1977, p. 205. Stukalina, 1986, p. 81, Tab. 5. Stukalina, 1988c, Fig. 31. Webster, 1993, p. 168.
Melocrinites subtilis Schewtschenko, 1966, p. 142, Pl. 2, fig. 2; Fig. 12. Webster, 1973, p. 302.
Early Devonian. Russia, Salair
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains, Zeravshan Range

Kuzbassocrinus tuberculatus (Schewtschenko, 1966). Dubatolova, 1971, p. 53, Pl. 4, fig. 5; 6, figs. 9-12; Fig. 21. Webster, 1977, p. 205. Stukalina, 1988c, p. 63, Pl. 11, fig. 33. Webster, 1993, p. 168.
Melocrinites tuberculatus Schewtschenko, 1966, p. 146, Pl. 3, figs. 1-10; Fig. 16. Webster, 1973, p. 302.
Early Devonian. Russia, Salair, Altai Mountains
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains, Zeravshan Range

Kuzbassocrinus yeltyschewae Dubatolova, 1964 = *Melocrinites yeltyschewae*

LABACRINUS Stukalina, 1999. **Labacrinus laevis* Stukalina, 1999.
Stukalina, 1999a, p. 23. Stukalina, 1999b, p. 145.
Recognized number of named columnal species: 1 Permian, Dorashamian species
Permian, Dorashamian. Russia, north Caucasus

**Labacrinus laevis* Stukalina, 1999a, p. 23, Pl. 3, figs. 3-9. Stukalina, 1999b, p. 145, Pl. 3, figs. 3- 9.
Late Permian, Dorashamian, upper part of Nikitina Formation. Russia, north Caucasus

LACUNOCOLUMNEA Termier, H. and Termier, G., 1974. *Nomen vetitum.*
Termier, H. and Termier, G., 1974, p. 33. Jeffords *in* Moore and Teichert, 1978, p. T937. Webster, 1986, p. 364.
Devonian, Givetian, Famennian. Morocco

Lacunocolumnea sp. 1 Termier, H. and Termier, G., 1974, p. 33, Pl. 5, figs. 1-7. Webster, 1986, p. 364.
Devonian, Givetian, Famennian. Morocco

LAMPROSTERIGMA Moore and Jeffords, 1968. **L. mirificus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 78. Webster, 1973, p. 299. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1986, p. 364. Webster, 1988, p. 195. Chernova and Stukalina, 1989, p. 1116. Webster, 1993, p. 168.
Recognized number of named columnal species: 4 species. 2 Mississippian, 1 Viséan. 1 Serpukhovian; 2 Mississippan, Viséan, Pennsylvanian, Atokan – Moscovian,
EMississippian - Pennsylvanian. North America
Mississippian, Viséan. Poland
Zmississippian, Serpukhovian. Kazakhstan

Lamprosterigma erathense Moore and Jeffords, 1968, p. 79, Pl. 25, fig. 15. Webster, 1973, p. 299. Gluchowski, 1981b, p. 46, Pl. 4, fig. 17. Webster, 1988, p. 195. Chernova and Stukalina, 1989, p. 118. Webster, 1993, p. 168. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. e.
Pennsylvanian, Atokan = early late Moscovian, La Joya Formation. Mexico
Middle Pennsylvanian, Desmoinesian, Mingus Shale. North America
Mississippian, Viséan. Poland

**Lamprosterigma mirificum* Moore and Jeffords, 1968, p. 79, Pl. 25, fig. 10. Webster, 1973, p. 299. Dubatolova *in* Dubatolov, 1976, p. 93, Pl. 24, fig. 16; Fig. 13. Buitron, 1977, p. 149, Figs. 2, nos. C-D, G; 3, nos. A-D. Webster, 1986, p. 364. Chernova and Stukalina, 1989, p. 118, Pl. 1, figs. 1-8; Fig. 2. Webster, 1993, p. 169. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. d.
Pennsylvanian, Atokan = early late Moscovian, La Joya Formation. Mexico
Pennsylvanian, Desmoinesian, Cabaniss Formation. United States, Kansas
Mississippian, Viséan, Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Southern Kazakhstan, Pribalkhash, Central Betpak-Dalak; Mexico, Chiapas

Lamprosterigma parvicostatus (Sisova, 1983). Chernova and Stukalina, 1989, p. 118. Webster, 1993, p. 169.
Floricyclius parvicostatus Sisova, 1983, p. 267, Pl. 1, figs. 8-9. Webster, 1988, p. 189. Chernova and Stukalina, 1989, p. 118. Webster, 1993, p. 169.
Mississippian, Serpukhovian, Beleutin Horizon. Kazakhstan

Lamprosterigma welleri (Moore and Jeffords, 1968). Chernova and Stukalina, 1989, p. 118. Webster, 1993, p. 169.
Floricyclus welleri Moore and Jeffords, 1968, p. 77, Pl. 24, fig. 8. Webster, 1973, p. 294. Gluchowski, 1981b, p. 46, Pl. 5, fig. 10. Webster, 1988, p. 189. Chernova and Stukalina, 1989, p. 118. Webster, 1993, p. 169.
Mississippian, Viséan (Osagean), Brodhead Formation. United States, Kentucky
Mississippian, Viséan. Poland

LAMPTEROCRINUS
Recognized number of named columnal species: 1 Silurian, Niagaran species
Silurian, Niagaran. United States

Lampterocrinus tennesseensis Roemer, 1860. Moore and Jeffords, 1968, p. 36, Pl. 2, figs. 8-11. Webster, 1973, p. 299.
Silurian, Niagaran, Brownsport Formation. United States, Tennessee

Lampterocrinus sp. undet. (A) Moore and Jeffords, 1968, p. 37, Pl. 2, fig. 7. Webster, 1973, p. 299.
Silurian, Niagaran, Brownsport Formation. United States, Tennessee

Lampterocrinus sp. undet. (B) Moore and Jeffords, 1968, p. 37, Pl. 2, fig. 12. Webster, 1973, p. 299.
Silurian, Niagaran, Brownsport Formation. United States, Tennessee

LANXOCOLUMNUS Donovan, 1995. **L. quinquelateralis* Donovan, 1995.
Donovan, 1995b, p. 138.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian (Caradocian). United Kingdom

**Lanxocolumnus quinquelateralis* Donovan, 1995b, p. 139, Pl. 22, figs. 1-4.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Lanxocolumnus sp. A Donovan, 1995b, p. 139, Pl. 22, figs. 5-7.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Lanxocolumnus sp. B Donovan, 1995b, p. 139, Pl. 23, figs. 1-4.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Lanxocolumnus sp. C Donovan, 1995b, p. 140, Pl. 23, figs. 6-7, 11.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Lanxocolumnus sp. D Donovan, 1995b, p. 140, Pls. 22, fig. 10; 23, figs. 5, 8, 10.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Lanxocolumnus sp. E Donovan, 1995b, p. 140, Pl. 22, figs. 8-9.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Lanxocolumnus sp. F Donovan, 1995b, p. 141, Pl. 24, fig. 1.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Large, simple discoid holdfasts Ausich and Copper, 2010, p. 75, Pl. 15, figs. 3, 5-7.
Silurian, Llandoverian, Chicotte Formation. Canada, Quebec, Anticosti Island

LATICRINUS Stukalina, 1980. **L. latus* Stukalina, 1980.
Stukalina, 1980b, p. 98. Stukalina, 1986, p. 54. Webster, 1986, p. 364. Webster, 1988, p. 195. Webster, 1993, p. 169.
Recognized number of named columnal species: 2 Ordovician species, 1 Sandbian, 1 Katian
Late Ordovician, Sandbian - Katian. Kazakhstan

Laticrinus incomptus Stukalina, 1985a, p. 182, Pl. 2, figs. 1-5. Stukalina, 1986, p. 54, Pls. 6, figs. 6-9; 7, figs. 5-8. Stukalina, 1988c, p. 57, Pl. 3, figs. 1-4. Webster, 1988, p. 195. Webster, 1993, p. 169.
Late Ordovician, Sandbian, Anderken Horizon equivalent. Southern Kazakhstan

**Laticrinus latus* Stukalina, 1980b, p. 98, Pl. 21, figs. 21-22. Webster, 1986, p. 364.
Late Ordovician, Katian, Dulankaren Horizon. Southern Kazakhstan

Latilobatocrinus flosus Rakhmonov and Stukalina, 2000, p. 3, Pl. 1, figs. 11-12 (nomen nudum, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

LATOCOLUMNUS Donovan, 1995. **L. girvanensis* Donovan, 1995
Donovan, 1995b, p. 141.
Recognized number of named columnal species: 2 Ordovician, Katian species
Ordovician, Katian. United Kingdom

**Latocolumnus girvanensis* Donovan, 1995b, p. 141, Pl. 24, figs. 2-3.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Latocolumnus orbicularis Donovan, 1995b, p. 142, Fig. 44, nos. H-I.
Ordovician, Katian (Caradocian). United Kingdom

Latocolumnus sp. A Donovan, 1995b, p. 142, Fig. 44, nos. J-K.
Ordovician, Darriwilian (late Llandeilian), Ffairfach Group. United Kingdom

Latocolumnus sp. B Donovan, 1995b, p. 142, Fig. 44, no. L.
Ordovician, Hirnantian (Ashgillian), Glyn Formation. United Kingdom

LAUDONOMPHALUS Moore and Jeffords, 1968. **L. regularis* Moore and Jeffords,
1968.
Moore and Jeffords, 1968, p. 71. Webster, 1973, p. 299. Jeffords *in* Moore and Teichert, 1978, p. T934. Le Menn, 1981, p. 267. Webster, 1988, p. 195. Webster,
1993, p. 169. Ebert, 1994, p. 39. Scheffler and Fernandes, 2007, p. 93. Franke, C., 2012, p. 55.
Recognized number of named columnal species: 17 Devonian species, 3 Pragian, 1 Pragian – Emsian, 6 Emsian, 1 Emsian – Eifelian, 1 Emsian – Givetian, 1 Eifelian, 1 Givetian, 2 Givetian – Frasnian, 1 Frasnian
Devonian, Pragian - Frasnian. United States, Europe, Russia

Laudonomphalus bellus (Polozhichina, 1980). Gluchowski, 1993b, p. 168, Pl. 3, figs. 3-4.
Devonian, late Emsian, Bukowa Gora Shales Formation. Poland

Laudonomphalus celticus (Le Menn, 1970). Le Menn, 1981, p. 268. Le Menn, 1985, p.

127, Pls. 27, figs. 17, 19; 28, fig. 1. Webster, 1988, p. 195.
Hexacrinites? celticus Le Menn, 1970a, p. 36, Pl. 4, figs. 6-7. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 306, Pl. 29, fig. 5. Webster, 1977, p. 202. Le Menn, 1981, p. 268. Webster, 1986, p. 358. Webster, 1988, p. 195.
Devonian, Pragian (Siegenian), Grauwacke du Faou. France, Amorican Massif

Laudonomphalus conicus (Le Menn, 1970). Le Menn, 1981, p. 268. Le Menn, 1985, p. 126, Pl. 27, figs. 22-23. Le Menn, 1987b, p. 817, Fig. 6, no. b. Webster, 1988, p. 195. Webster, 1993, p. 169.
Hexacrinites? conicus Le Menn, 1970a, p. 28, Pl. 5, figs. 9-10. Le Menn *in* Le Menn
and Racheboeuf, 1976, p. 307, Pl. 28, figs. 16-17. Webster, 1977, p. 202. Le Menn, 1981, p. 268. Webster, 1988, p. 195.
Hexacrinites? concius Le Menn, 1970. Webster, 1986, p. 358 (sic).
Devonian, Pragian (Siegenian), Grauwacke du Faou. France, Amorican Massif

Laudonophalus frequens Ebert, 1994, p. 41, Pl. 2, figs. 16-18; Figs. 39-40, 71-74.
Devonian, late Emsian - Eifelian, boundary Hobräck Formation/Mühlenberg Formation; Hobräck Formation; *Orthocrinus* Formation to Stöppel Formation; Brachtpe Formation to Olper-Tonschiefer Formation; upper part of *Speciosus* Formation to *Calceola* Formation. Germany

Laudonomphalus humilicarinatus (Yeltyschewa, 1961) = *Hexacrinites? humilicarinatus*

Laudonomphalus kartzevae (Yeltyschewa and Dubatolova, 1961) = *Hexacrinites kartzevae = Marettocrinus kartzevae*

Laudonomphalus mamillatus (Yeltyschewa and Dubatolova, 1960). Gluchowski, 1986, p. 14. Fig. 1, nos. l-m. Gluchowski, 1993a, p. 55, Fig. 9, no. I.
Devonian, late Givetian - middle Frasnian, Laskowa Gora Beds; lower part of Wietrznia Beds; Dziewki Limestones. Poland

Laudonomphalus marettensis Le Menn, 1981, p. 268, Pl. 32, figs. 6-10. Le Menn, 1985, p. 128, Pl. 28, figs. 18-22. Le Menn, 1987b, p. 817, Pl. 2, figs. 18-19; Fig. 5, no. e. Webster, 1988, p. 196. Gluchowski, 1993b, p. 167, Pl. 3, fig. 1. Webster, 1993,
p. 169.
Devonian, late Emsian, Reun ar C'Hrank Formation, Buord Formation; Marollieres Formation, Marettes Formation. France, Armorican Massif
Devonian, late Emsian, Zagorze Formation, Bukowa Gora Shales Formation. Poland

Laudonomphalus maximus (Le Menn, 1976). Le Menn, 1981, p. 268, Pl. 32, figs. 1-5. Le Menn, 1985, p. 129, Pl. 28, figs. 11-17. Le Menn, 1987b, p. 817, Pl. 2, fig. 14; Fig. 6, no. f. Webster, 1988, p. 196. Gluchowski, 1993b, p. 168, Pl. 3, fig. 5. Webster, 1993, p. 169. Franke, C., 2012, p. 57, Pl. 26, figs. 3a-b, 4.
Hexacrinites? maximus Le Menn, 1976, p. 49, Pl. 9, figs. 8-9. Le Menn, 1981, p. 268. Webster, 1986, p. 359. Webster, 1988, p. 196.

Devonian, Emsian, Reun ar C'Hrank Formation; Verveur Formation; Foulerie Formation; Marettes Formation; Buard Formation. Marollieres Formation. France, Armorican Massif; Luxemburg; Germany, Rheinisches Schiefergebirge

Devonian, late Emsian, Zagorze Formation, Bukowa Gora Shales Formation. Poland

Laudonomphalus minimus (Le Menn, 1976). Le Menn, 1981, p. 268. Le Menn, 1985, p. 126, Pl. 27, figs. 15-16, 18. Le Menn, 1987b, p. 817, Fig. 6, no. a. Webster, 1988, p. 196. Webster, 1993, p. 169.
Hexacrinites? minimus Le Menn, 1976, p. 307, Pl. 28, figs. 21-23. Le Menn, 1981, p. 268. Webster, 1986, p. 359. Webster, 1988, p. 196.
Devonian, late Pragian (Siegenia)n, Grauwacke du Faou Formation. France, Armorican Massif

Laudonomphalus multituberculatus Scheffler and Fernandes, 2007, p. 93, Fig. 8, nos. a-d.
Devonian, Emsian, Jaguariaiva, Member, Ponta Grossa Formation. Brazil, Parana Basin

Laudonomphalus ornatus Moore and Jeffords, 1968 (part?) = *Hexacrinites? ornatus*

Laudonomphalus ornatus Moore and Jeffords, 1968. Scheffler et al., 2006, p. 240, Fig. 5, nos. a-b.
Devonian, Emsian, Maecuru Formation. Brazil, Amazon Basin

Laudonomphalus gr. *ornatus-regularis* Le Menn, 1987b, p. 817, Pl. 2, figs. 21-22; Fig. 6, no. i. Le Menn, 1988b, p. 466, Pl. 53, figs. 22, 26-27; Fig. 4. Webster, 1993, p. 169.
Devonian, Frasnian, Beaulieu Formation, Patures, Noces, and Cambreseque Members; Ferques Formation, du Bois and Parisienne Members. France

Laudonomphalus pinguicostatus Gluchowski, 1993a, p. 55, 68, Fig. 9, nos. E-F.
Devonian, Givetian, Dziewki Limestones. Poland

Laudonomphalus regularis Moore and Jeffords, 1968 = *Hexacrinites? humilicarinatus*

Laudonomphalus regularis Moore and Jeffords, 1968. Ebert, 1994, p. 39, Pl. 2, figs. 4, 9, 13; Figs 15, 36, 63, no. a; 73-74.
Devonian, Eifelian, Mühlenberg Formation. Germany

Laudonomphalus regularis Moore and Jeffords, 1968. Scheffler et al., 2006, p. 238, Fig. 4.
Devonian, Emsian, Maecuru Formation. Brazil, Amazon Basin

Laudonomphalus rotundilatus Le Menn, 1987b, p. 817, Pl. 2, Figs. 23-27; Figs. 6, no. j; 9, nos. A-B. Le Menn, 1988b, p. 467, Pl. 54, figs. 9-16; Figs. 5-6. Webster, 1993, p. 169.
Devonian, early Frasnian, Beaulieu Formation, Noces Member. France

Laudonomphalus seillouensis Le Menn, 1981, p. 268. Le Menn, 1985, p. 127, Pl. 28, figs. 4-7. Le Menn, 1987b, p. 817, Pl. 2, fig. 13; Fig. 6, no. c. Webster, 1988, p. 196. Webster, 1993, p. 170.
Hexacrinites? regularis Le Menn, 1970 (*non* Moore and Jeffords, 1968), p. 24, Pl. 4, figs. 8, 11. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 307, Pl. 28, figs. 12-14. Webster, 1977, p. 203. Le Menn, 1981, p. 268. Webster, 1986, p. 360. Webster, 1988, p. 196.
Devonian, Pragian (late Siegenian) - early Emsian, Grauwacke du Faou Formation. France, Armorican Massif

Laudonomphalus subbiconcavus (Stukalina, 1965) = *Marettocrinus subbiconcavus*.

Laudonomphalus tenuicrenulatus (Le Menn, 1976). Le Menn, 1981, p. 268. Le Menn, 1985, p. 128, Pl. 28, figs. 8-10. Le Menn, 1987b, p. 817, Fig. 6, no. d. Webster, 1988, p. 196. Gluchowski, 1993b, p. 168, Pl. 3, fig. 2. Webster, 1993, p. 170.
Hexacrinites? tenuicrenulatus Le Menn *in* Le Menn *et al.*, 1976, p. 49, Pl. 9, figs. 10-12. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 308. Le Menn, 1981, p. 268. Webster, 1986, p. 360. Webster, 1988, p. 196.
Devonian, Emsian, Reun ar C'Hrank, Grauwacke du Faou, Montguyon Formation. France, Amorican Massif
Devonian, late Emsian, Zagorze Formation. Poland

Laudonomphalus torulosus (Dubatolova, 1971). Gluchowski, 1986, p. 14, Fig. 1, nos. n-o. Gluchowski, 1993a, p. 55, Fig. 9, no. H.
Devonian, late Givetian - Frasnian, lower part of Wietrznia Beds. Poland

Laudonomphalus tuberosus (Yeltyschewa, 1961). Moore and Jeffords, 1968, p. 72, Pl. 21, fig. 6. Webster, 1973, p. 300. Gluchowski, 1986, p. 13, Fig. 1, nos. c-d. Le Menn, 1987b, p. 816, Fig. 6, no. h. Stukalina, 1991, p. 159. Gluchowski, 1993b, p. 167, Pl. 2, figs. 5-6. Webster, 1993, p. 170. Ebert, 1994, p. 41, Pl. 2, figs. 11, 14-15; Figs. 37-38, 71, 73-74.
Hexacrinites? tuberosus Yeltyschewa *in* Dubatolova and Yeltyschewa , 1961, p. 554, Pl. D-87, fig. 5. Dubatolova, 1964, p. 38, Pls. 3, figs. 12-13; 4, fig. 6. Yeltyschewa, 1964b, p. 80, Pl. 15, fig. 23. Moore and Jeffords, 1968, p. 72. Dubatolova and Yeltyschewa, 1969, p. 59, Pls. 14, figs. 11-13; 15, figs. 1-2. Dubatolova, 1971, p. 60, Pl. 7, figs. 10-11; Fig. 27. Stukalina, 1971, p. 197, Pl. 2, fig. 17. Webster, 1973, p. 300. Stukalina, 1975, p. 140, Pl. 33, figs. 8-10. Dubatolova, 1975b, p. 50, Pl. 9, figs. 9-10; Fig. 3. Webster, 1977, p. 203. Dubatolova, 1984, p. 116, Pls. 13, fig. 14; 14, fig. 1; Fig. 6. Stukalina, 1986, p. 85, Pls. 21, figs. 6-7, 9-21; 24, figs. 1-11; Tab. 5. Webster, 1986, p. 360. Stukalina, 1988c, p. 65, Pl. 14, figs. 16-21; Fig. 31. Webster, 1988, p. 191. Milicina, 1989, p. 102, Pl. 1, fig. 9; Figs. 2-3. Stukalina, 1991, p. 159. Webster, 1993, p. 165.

Early - Middle Devonian, upper part of Pribalkhash Horizon; Taltii Horizon; Vecherninian Suite; Losishinian Suite; Krinkovian Suite. Russia, Kazakhstan, Omulev Mountains, Altai Mountains, Salair, Kuznetz Basin, Armenia
Devonian, Givetian, Bukowa Gora Shale Formation, Skaly Beds: Poland
Devonian, late Emsian - middle Eifelian, boundary of Hobräck/Mühlenberg Formations; Hobräck Formation; *Orthocrinus* Formation to Stöppel Formation; Unnenberg Formation. Germany

Laudonomphalus tuberosus (Yeltyschewa, 1961). Moore and Jeffords, 1968 (part) = *Hexacrinites? kartzevae* = *Marettocrinus kartzevae*

Laudonomphalus aff. *tuberosus* (Yeltyschewa, 1961). Le Menn, 1985, p. 129, Pl. 29, figs. 4-9. Le Menn, 1987b, p. 816, Pl. 2, fig. 20; Fig. 6, no. g. Webster, 1988, p. 196. Webster, 1993, p. 170.
Devonian, late Emsian - early Eifelian, Bolast Formation; Saint-Fiacre Formation. France, Armorican Massif

Laudonomphalus sp. A Gluchowski, 1986, p. 15, Fig. 1, nos. f-g.
Devonian, middle Emsian - Famennian. Poland

Laudonomphalus sp. B Gluchowski, 1986, p. 16, Fig. 1, nos. h-i.
Devonian, late Eifelian - Famennian. Poland

Laudonomphalus spp.
Ebert, 1994, p. 22, Fig. 12.
Devonian, Pragian - Frasnian
Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 329, Pl. 1, fig. 26.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia
Franke, C., 2012, p. 61, Pl. 26, figs. 7-9.
Devonian, Emsian, Mulden group. Germany, Rhenischen Schiefergebirge

LECYTHOCRINUS Müller, 1858.
Devonian, Eifelian. Germany

Lecythocrinus sp. Reed, 1908, p. 42, Pl. 6, figs. 10-11.
Devonian: India, Northern Shan States

Lecythocrinus or *Gasterocoma* sp. Stielstück einer Art Hauser, 1997.
Lecytocrinus or *Gasterocoma* sp. Stielstück einer Art Hauser, 1997, Pl. 57, fig. 4.
Devonian, Eifelian, Junkerberg Formation, Giesdorf Member. Germany

Lecytocrinus or *Gasterocoma* sp. Hauser, 1997 = *Lecythocrinus* or *Gasterocoma* sp.

Lengthy crinoid stem Tesakov *et al.*, 1980, p. 145, Pl. 12, fig. 6. Webster, 1986, p. 399.
Silurian, Llandoverian, Moierokanian Suite. Russia, Northwestern Siberian Platform

LEPTOCARPHIUM Moore and Jeffords, 1968. **L. gracile* Moore and Jeffords, 1968.

Moore and Jeffords, 1968, p. 79. Webster, 1973, p. 300. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1988, p. 196.
Recognized number of named columnal species: 2 species, 1 Mississippian, Tournaisian – Viséan; 1 Pennsylvanian, Desmoinesian
Mississippian,Tournaisian - Viséan; Poland
Pennsylvanian, Desmoinesian. United States

**Leptocarphium gracile* Moore and Jeffords, 1968, p. 79, Pl. 25, figs. 12-13. Webster, 1973, p. 300. Gluchowski, 1981b, p. 46, Pl. 5, fig. 5. Webster, 1988, p. 196.
Pennsylvanian, Desmoinesian, Mingus Shale. United States, Texas
Mississippian, Tournaisian-Viséan. Poland

Leptocarphium regulare Moore and Jeffords, 1968, p. 79, Pl. 25, figs. 8-9. Webster, 1973, p. 300.
Pennsylvanian, Desmoinesian, Mingus Shale. United States, Texas

LESEUS de Gregorio, 1930 = *LESSUS*

LESSUS de Gregorio, 1930. **L. palazzensis* de Gregorio, 1930
de Gregorio, 1930, p. 38. Bassler, 1938, p. 124. Bassler and Moodey, 1943, p. 535. Moore and Laudon, 1943b, p. 104.
LESEUS de Gregorio, 1930. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1973, p. 300.
Recognized number of named columnal species: 1 Permian, Wordian (+1 subspecies)
Permian, Wordian: Sicily

**Lessus palazzensis* de Gregorio, 1930, p. 38, Pl. 14, figs. 5-6. Bassler, 1938, p. 124. Bassler and Moodey, 1943, p. 535.
Permian, Wordian, Sosio Limestone. Sicily

Lessus palazzensis inaequalis de Gregorio, 1930, p. 39, Pl. 14, fig. 7. Bassler and Moodey, 1943, p. 535.
Permian, Wordian, Sosio Limestone. Sicily

Lichenocrinid holdfasts Brower and Veinus, 1978, p. 471, Pl. 24, figs. 15-18. Webster, 1986, p. 399.
Late Ordovician, Katian, Platteville Limestone, Hidden Falls Member; Decorah Shale. United States, Minnesota

Lichenocrinid-type holdfasts Ausich, *in* Hess et al., 1999 p. 78, Fig. 87-88.
Late Ordovician, Katian (Cincinnatian). United States, Ohio

LICHENOCRINUS Hall, 1866. **L. dyeri* Hall, 1866. Hall, 1866a, p. 9. Meek, 1866, p. 44. Meek, 1871a, p. 341. Meek, 1871b, p. 299. Hall, 1872a, p. 12. Hall, 1872b, p. 216. Meek, 1872a, p. 247. Hall, 1872b, p. 15, 261. Hall, 1873, p. 44. Zittel, 1879, p. 424. Miller, 1889, p. 258. Sardeson, 1899, p. 275. Bather *in* Lankester, 1900, p. 77. Cumings, 1908, p. 274. Bassler, 1915, p. 721. Ehrenberg, 1929, p.

46. Faber, 1929, p. 461. Fenton, 1929a, p. 491. Bassler, 1938, p. 124. Bassler and Moodey, 1943, p. 535. Moore and Laudon, 1943b, p. 104. Webster, 1973, p. 300. Webster, 1977, p. 105. Jeffords *in* Moore and Teichert, 1978, p. T934.
Recognized number of named columnal species: 21 Ordovician species, 1 Sandbian, 20 Katian
Ordovician, Sandbian – Katian – Early Silurian. North America

LICHENOCRINUS Westphal, 1974b = ***CARABOCRINUS***

Lichenocrinus affinis Miller, 1882 = *L. crateriformis*

Lichenocrinus ashmanni Faber, 1929, p. 468, Pl. 34, figs. 5-6. Bassler and Moodey, 1943, p. 536.
Ordovician, Katian (Maysvillian), Mt. Hope Shale. United States, Ohio

Lichenocrinus austini Fenton, 1929b, p. 495, Pl. 37, fig. 4. Bassler and Moodey, 1943, p. 535.
Ordovician, Katian (Black Riveran), Decorah Shale, Spechts Ferry Member. United States, Minnesota

Lichenocrinus crateriformis Hall, 1866a, p. 9, Pl. 1, fig. 7. Hall, 1872b, p. 217, Pl. 7, fig. 7. Hall,1882b, p. 217, Pl. 7, fig. 7. Meek, 1873a, p. 51, Pl. 3, figs. 1a-1t. Billings, 1881, p. 34. Miller, S. A., 1889, p. 258. Cumings, 1908, p. 728, Pls. 3, fig. 2; 4, figs. 12-12b. Bassler, 1915, p. 721. Ehrenberg, 1929, p. 48, Fig. 32. Faber, 1929, p. 470, Pl. 32, figs. 5-12. Bassler and Moodey, 1943, p. 536.
Lichenocrinus affinis Miller, S. A., 1882d, p. 229, Pl. 9, figs. 7-7a. Miller, S. A. 1889, p. 258. Schuchert, 1900, p. 155. Foerste, 1914b, p. 478, Pl. 2, fig. 5. Bassler, 1915, p. 721. Bassler and Moodey, 1943, p. 536.
Ordovician, Katian (Richmondian); Early Silurian, Waynesville Limestone, Whitewater Formation, Elkhorn Formation, Maquoketa Formation. United States, Ohio, Indiana, Iowa; Canada, Ottawa

Lichenocrinus dubius Miller, S. A.,1880c, p. 234, Pl. 7, figs. 5-5a. Miller, S. A. 1889, p. 258. Faber, 1929, p. 464, Pls. 29, figs. 2, 9; 30, figs. 1-3. Bassler, 1915, p. 722. Bassler and Moodey, 1943, p. 536. Ausich and Baumiller, 1993b, p. 1068, Figs. 1-2.
Ordovician, Katian (Cincinnatian), Eden Formation, Southgate Member, Fulton Formation, Kope Formation. United States, Ohio

Lichenocrinus dyeri Hall, 1866a, p. 9, Pl. 1, figs. 1-6. Hall, 1872a, p. 12, Pl. 7, figs. 1-6. Hall, 1872b, p. 216, Pl. 7, figs. 1-6. Meek, 1873a, p. 51, Pl. 3, fig. 2. Miller, S. A., 1889, p. 258. Cumings, 1908, p. 729, Pl. 4, fig. 5. Bassler, 1915, p. 722. Faber, 1929, p. 469, Pls. 27, fig. 5; 34, figs. 7-12. Ehrenberg, 1929, p. 51, Fig. 33. Bassler, 1938, p. 125. Bassler and Moodey, 1943, p. 536. Caster, Dalve, and Pope, 1961, Pl. 4, fig. 17. Webster, 1977, p. 105.
Ordovician, Katian (Cincinnatian), Corryville Shale, Cynthiana Formation. United States, Ohio, Indiana, Kentucky

Lichenocrinus fentonae Faber, 1929, p. 462, Pls. 29, fig. 1; 30, figs. 7-8. Bassler and Moodey, 1943, p. 536.
Ordovician, Katian, Eden Formation, Southgate Member. United States, Ohio

Lichenocrinus irregularis Faber, 1929, p. 473, Pl. 32, fig. 13. Bassler and Moodey, 1943, p. 536.
Ordovician, Katian (Richmondian), Whitewater Formation. United States, Ohio

Lichenocrinus kemperi Faber, 1929, p. 473, Pl. 32, figs. 1-4. Bassler and Moodey, 1943, p. 536.
Ordovician, Katian (Richmondian), Elkhorn Formation. United States, Ohio

Lichenocrinus milleri Faber, 1929, p. 353, Pl. 33, figs. 3-9. Bassler and Moodey, 1943, p. 536. Ubaghs *in* Moore and Teichert, 1978, p. T88, Fig. 64, no. 6. Webster, 1986, p. 364.
Ordovician, Katian (Richmondian), Elkhorn Formation. United States, Indiana, Ohio

Lichenocrinus minutus Foerste, 1924, p. 353, Pl. 30, figs. 18-19. Bassler and Moodey, 1943, p. 536.
Ordovician, Katian (Richmondian), Elgin Shale. United States, Iowa

Lichenocrinus nodosus Faber, 1929, p. 477, Pl. 33, figs. 10-12. Bassler and Moodey, 1943, p. 536. Ubaghs *in* Moore and Teichert, 1978, p. T88, Fig. 64, no. 7. Webster, 1986, p. 365.
Ordovician, Katian (Richmondian), Waynesville Formation, Elkhorn Formation. United States, Indiana

Lichenocrinus nodosus minnesotensis Fenton, 1929b, p. 494, Pl. 37, fig. 1. Bassler and Moodey, 1943, p. 536.
Ordovician, Katian (Black Riveran), Decorah Shale, Spechts Ferry Member. United States, Minnesota

Lichenocrinus obliquus Foerste, 1924, p. 102, Pl. 6, fig. 2. Bassler and Moodey, 1943, p.536.
Ordovician, Sandbian (Cincinnatian), Eden Formation, Sheguindah Beds. Canada, Ontario

Lichenocrinus ornatus Fenton, 1929b, p. 496, Pl. 37, fig. 9. Bassler and Moodey,1943, p. 537.
Ordovician, Katian (Trentonian), Hull Limestone. Canada, Ontario

Lichenocrinus pattersoni Miller, S. A., 1879, p. 118, Pl. 10, figs. 6-6a. Miller, S. A., 1889, p. 258. Cumings, 1908, p. 729, Pl. 4, figs. 4-4a. Bassler, 1915, p. 722. Faber, 1929, p. 461, Pl. 30, fig. 6. Bassler and Moodey, 1943, p. 537.
Ordovician, Katian (Trentonian), Cynthiana Formation. United States, Kentucky

Lichenocrinus schlemmeri Faber, 1929, p. 466, Pl. 31, figs. 1-3. Bassler and Moodey, 1943, p. 537.

Ordovician, Katian (Cincinnatian), Eden Formation, Southgate Member. United States, Ohio

Lichenocrinus shideleri Faber, 1929, p. 478, Pls. 28, fig. 9; 34, figs. 3- 4. Bassler and Moodey, 1943, p. 537.
Ordovician, Katian (Richmondian), Whitewater Formation, Sakluda Limestone. United States, Indiana

Lichenocrinus shideleri regularis Faber, 1929, p. 479, Pls. 28, fig. 8; 34, figs. 1-2. Bassler and Moodey, 1943, p. 537.
Ordovician, Katian (Richmondian), Elkhorn Formation. United States, Indiana

Lichenocrinus stetteri Faber, 1929, p. 466, Pl. 30, figs. 4-5. Bassler and Moodey, 1943, p. 537.
Ordovician, Katian (Cincinnatian), Eden Formation, Southgate Member. United States, Ohio

Lichenocrinus subaequalis Foerste, 1914a, p. 125, Pl. 1, fig. 10. Foerste, 1914b, Pl. 2, fig. 6. Bassler, 1915, p. 722. Bassler and Moodey, 1943, p. 537.
Ordovician, Katian (Trentonian), Cynthiana Formation. United States, Kentucky

Lichenocrinus tuberculatus Miller, S. A., 1874b, p. 346, Fig. 38. Miller, S. A., 1882d, p. 229, Pl. 9, figs. 6-6a. Miller, S. A., 1889, p. 258, Fig. 351. Cumings, 1908, p. 730, Pl. 4, fig. 3. Bassler, 1915, p. 722. Foerste, 1918, p. 99, Pl. 4, fig. 3. Faber, 1929, p. 474, Pls. 28, figs. 1-2, 6, 10-11, 14; 29, figs. 6-8; 33, figs. 1-2. Ehrenberg, 1929, p. 47, Fig. 31. Bassler and Moodey, 1943, p. 537. Caster, Dalve, and Pope, 1961, Pl. 6, fig. 15. Webster, 1977, p. 105.
Ordovician, Katian (Cincinnatian); Early Silurian, Richmondian, Waynesville Formation, Whitewater Formation, Elkhorn Formation. United States, Indiana, Ohio, Michigan

Lichenocrinus twitchelli Faber, 1929, p. 463, Pl. 31, figs. 6-10. Bassler and Moodey, 1943, p. 537.
Ordovician, Katian (Cincinnatian), Eden Formation, Southgate Member. United States, Ohio

Lichenocrinus vaupeli Faber, 1929, p. 467, Pl. 31, figs. 4-5. Bassler and Moodey, 1943, p. 537.
Ordovician, Katian (Cincinnatian), Eden Formation, Southgate Member. United States, Ohio

"Lichenocrinus" holdfasts Ausich, 1996b, p. 246, Fig. 17-4, nos. 4-6.
Ordovician, Drakes Formation, unknown strata. United States, Ohio

Lichenocrinus-type holdfast Ausich and Copper, 2010, p. 74, Pl. 14, fig. 10.
Ordovicain, Katian, Vauréal Formation, Homard Member. Canada, Quebec, Anticosti
Island

Lichenocrinus spp.
Sinclair, Copeland, and Bolton, 1969, p. 24, Fig. 7, no. 6. Webster, 1977, p. 105.
Ordovician, Katian (Trentonian), Sherman Fall Limestone. Canada, Ontario
Kolata, 1976, p. 444, Pl. 1, fig. 8. Webster, 1986, p. 365.
Ordovician, Katian (Maysvillian), Hunt Mountain Beds. United States, Wyoming
Palmer and Palmer, 1977, p. 187, Fig. 5, no. B. Webster, 1986, p. 365.
Ordovician, Katian (Champlainian), Galena Group, Dunleith Formation, Rivoli Member. United States, Iowa
Brett and Liddell, 1978, p. 340, Fig. 5, no. K. Webster, 1986, p. 365.
Ordovician, Katian (Trentonian), Bobcaygeon Formation. Canada, Ontario
Titus, 1979, p. 112, Fig. 7, no. 10. Webster, 1986, p. 365.
Ordovician, Katian (Trentonian). United States, New York
Brett, 1981b, p. 348, Fig. 3, no. B. Webster, 1988, p. 196.
Ordovician, Katian (Richmondian), Whitewater Formation. United States, Ohio
Brett, 1981b, p. 346, Fig. 2, no. D. Webster, 1988, p. 196.
Pennsylvanian, no locality data
Prokop and Turek, 1997, p. 307, Pl. 1, figs. 1-6; Figs. 1-2.
Ordovician, Caradocian, Zahorany Formation. Czech Republic, Bohemia

LIMBATOCRINUS Stukalina, 1967. *Nomen nudum*
Stukalina, 1967a, p. 202. Jeffords *in* Moore and Teichert, 1978, p. T937.

Limbatocrinus limbatus Stukalina, 1967a, p. 202 (*nomen nudum*).

Limestone with crinoids Fischer and Gayrard-Valy, 1978, p. 101, Fig. 103.
Mississippian. Algeria

LISSOCRINUS Dubatolova, 1971. **Pentagonocyclicus glaber* Yeltyschewa *in* Dubatolova and Yeltyschewa, 1961.
Dubatolova, 1971, p. 73. Webster, 1977, p. 205. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1986, p. 365. Webster, 1993, p. 170.
Recognized number of named columnal species: 5 Devonian species, 1 Pragian, 2 Emsian, 1 Early Devonian uncertain, 1 Eifelian, 1 Frasnian
Devonian, Pragian - Frasnian. Russia
Devonian, Emsian. Poland

Lissocrinus curtus (Dubatolova, 1964). Dubatolova, 1971, p. 73. Webster, 1977, p. 206.
Pentagonocyclicus curtus Dubatolova, 1964, p. 77, Pl. 10, figs. 11-13. Dubatolova, 1971, p. 73. Webster, 1973, p. 306. Webster, 1977, p. 206.
Early Devonian. Russia, Kuznetz Basin

**Lissocrinus glaber* (Yeltyschewa *in* Dubatolova and Yeltyschewa, 1961). Dubatolova, 1971, p. 73. Webster, 1977, p. 206. Dubatolova, 1990, p. 122, Pl. 16, figs. 8-9; Fig. 27, nos. A-B. Webster, 1993, p. 170.

Pentagonocyclicus glaber Yeltyschewa *in* Dubatolova and Yeltyschewa, 1961, p. 559, Pl. D-87, fig. 12. Dubatolova, 1964, p. 76, Pl. 10, figs. 9-10, 15. Dubatolova, 1971, p. 73. Webster, 1973, p. 307. Webster, 1977, p. 206.
Devonian, Pragian, Krekov Layer. Russia, West Siberian Platform, Salair

Lissocrinus hobotschaloensis (Dubatolova, 1967). Dubatolova, 1971, p. 73. Webster, 1977, p. 206.
Pentagonocyclicus hobotschaloensis Dubatolova, 1967, p. 39, Pl. 6, figs. 22-25; Fig. 6. Dubatolova, 1971, p. 73. Webster, 1973, p. 307. Webster, 1977, p. 206.
Devonian, Eifelian. Russia, Tas-Hayahtah Mountain

Lissocrinus insectus (Yeltyschewa *in* Dubatolova, 1964). Dubatolova, 1971, p. 73. Webster, 1977, p. 206.
Pentagonocyclicus insectus Yeltyschewa *in* Dubatolova, 1964, p. 92, Pl. 14, figs. 1-2. Dubatolova, 1971, p. 73. Webster, 1973, p. 308. Webster, 1977, p. 206.
Devonian, Frasnian. Russia, Kuznetz Basin

Lissocrinus promiscus Dubatolova, 1980, p. 132, Pl. 19, figs. 8-9; Fig. 24. Dubatolova, 1988, p. 73, Pl. 16, figs. 14-16; Unnum. Fig., no. k, p. 68. Gluchowski, 1993b, p. 171, Pl. 5, fig. 4. Webster, 1993, p. 170.
Lissocrinus promisous Dubatolova, 1980. Webster, 1986, p. 365 (sic).
Devonian, late Emsian, Ilin Suite, upper part of Beloubin Suite. Russia, Altai Mountains
Devonian, late Emsian, Bukowa Gora Shales Formation. Poland

Lissocrinus promisous Dubatolova, 1980 = *Lissocrinus promiscus*

Lissocrinus rotatus Rakhmonov and Stukalina, 2000, p. 3, Pl. 2, figs. 11-12 (nomen nudum, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

Lobate and digitate holdfasts cemented to bryozoans Brower and Veinus, 1978, p. 475, Pl. 25, figs. 1-5. Webster, 1986, p. 399.
Late Ordovician, Katian, Decorah Shale. United States, Minnesota

LOBATOCRINUS Stukalina, 1969. *Nomen nudum*
Stukalina, 1969, p. 206. Jeffords *in* Moore and Teichert, 1978, p. T937.

Lobatocrinus angustus Stukalina, 1969, p. 206 (*nomen nudum*). Stukalina, 1986, p. 27, Fig. 10, no. 9 (*nomen nudum*), no description. Stukalina, 1988c, p. 41, Fig. 26, no. 5 (*nomen nudum*), no description. Webster, 1993, p. 170.
Late Ordovician. Russia

LOBOCRINUS Stukalina, 1982. **L. lobus* Stukalina, 1982.
Stukalina, 1982, p. 67. Stukalina, 1982a, p. 192. Webster, 1988, p. 197. Webster, 1993, p. 170.

Note. *Lobocrinus* Stukalina, 1982 is preoccupied by ***LOBOCRINUS*** Wachsmuth and Springer, 1897 = ***UPEROCRINUS*** (This was brought to my attention by Joel Hallan, 29 Oct. 2009)
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Russia, Taymyr

**Lobocrinus lobus* Stukalina, 1982a, p. 192. Webster, 1988, p. 197.
Pentagonopentagonalis multipartitus Yeltyschewa and Stukalina, 1963 (part), Pl. 11, fig. 18 only. Stukalina, 1982a, p. 192. Webster, 1988, p. 197.
Ordovician, sandbian: Russia, Central Taymyr

Lobolit Fric, 1904, p. 277, Fig. 91. Abel, 1920, p. 252, Fig. 386.
Early Silurian. Czech Republic

Lobolith
Abel, 1924, p. 265, Fig. 386.
Late Silurian. Czech Republic, Bohemia
Ehrenberg, 1926b, p. 162, Fig. 1 (after Springer, 1917).

Loboliths Yakovlev, 1953 and later = *Scyphocrinites* spp.

LOMALEGNUM Moore and Jeffords, 1968. **Lomalegnum hormidium* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 61. Webster, 1973, p. 300. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1986, p. 365.
Recognized number of named columnal species: 2 species. 1 Mississippian, Tournaisian; 1 Pennsylvanian, Moscovian
Mississippian, Tournaisian. United States, Mexico
Pennsylvanian. Moscovian. Russia

Lomalegnum arenarius (Yeltyschewa and Schewtschenko, 1960) = *Arenariocrinus arenarius*

Lomalegnum exasperatus Dubatolova *in* Dubatolov, 1976, p. 86, Pl. 24, fig. 3; Fig. 7. Webster, 1986, p. 365.
Pennsylvanian, Moscovian, Taskudukskaya Suite, Severosayak Horizon. Russia, Northeast Pribalkhash

**Lomalegnum hormidium* Moore and Jeffords, 1968, p. 61. Pl, 13, fig. 2. Webster, 1973, p. 300. Ubaghs *in* Moore and Teichert, 1978, p. T77, Fig. 53, no. 10. Webster, 1986, p. 365. Martínez, Martínez, and Montero, 1987, p. 404, Pl. 1, figs. 3-4.
Mississippian, Tournaisian; Patlanoaya Formation. United States, Iowa: Mexico

Long stem sections Ruhrmann, 1971a, p. 69, Fig. 8, nos. a-c. Webster, 1977, p. 230.
Ordovician. Sweden

LOPHOCRINUS von Meyer, 1858.

Haude, 1981, p. 188, Fig. 2, left.
Mississippian, Viséan. Europe, North Africa

Lophocrinus? sp. Reed, 1908, p. 42, Pl. 6, figs. 7-9.
Devonian. India, Northern Shan States

Lunaricrinidae Stukalina, 1986, p. 96, Fig. 29, no. 3. Stukalina, 1988c, p. 44, Fig. 28, no.
3. Webster, 1993, p. 170.
Middle-Late Ordovician

LUNARICRINUS Stukalina, 1980. **L. lunaris* Stukalina, 1980.
Stukalina, 1980c, p. 172. Stukalina, 1986, p. 62. Webster, 1986, p. 366. Webster, 1993, p. 170.
Recognized number of named columnal species: 2 Ordovician species, 1 Hirnantian,
1 Late Ordovician, uncertain
Ordovician, Hirnantian Kazakhstan

**Lunaricrinus lunaris* Stukalina, 1980c, p. 172, Pl. 32, figs. 4-6; Fig. 58, nos. 2-3. Stukalina, 1986, p. 62, Pl. 11, fig. 12. Webster, 1986, p. 366. Webster, 1993, p. 170.
Ordovician, Hirnantian (Ashgillian), Durben Horizon, Dalmanitinovye Layer. Southern Kazakhstan

Lunaricrinus notus Stukalina, 1980b, p. 110, Pl. 23, fig. 8; Fig. 19, no. 5. Webster, 1986, p. 366. Stukalina, 1988c, p. 41, Fig. 26, no. 3. Webster, 1993, p. 170.
Late Ordovician. Kazakhstan

LUNULACRINUS Stukalina, 1982. **Pentagonogentagonalis hrustalnjiensis* Yeltyschewa and Stukalina, 1963.
Stukalina, 1982a, p. 190. Stukalina, 1986, p. 62. Webster, 1988, p. 197. Webster, 1993, p. 171.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Russia, Taymyr

**Lunulacrinus hrustalnjiensis* (Yeltyschewa and Stukalina, 1963). Stukalina, 1982a, p. 190. Stukalina, 1986, p. 62, Pl. 11, fig. 13. Stukalina, 1988c, p. 59, Pl. 5, fig. 13. Webster, 1988, p. 197. Webster, 1993, p. 171.
Pentagonopentagonalis hrustalnjiensis Yeltyschewa and Stukalina, 1963, p. 44, Pl. 1, fig. 8; Fig. 13. Stukalina, 1968c, p. 89. Webster, 1973, p. 318. Webster, 1988, p. 197.
Ramulicrinus hrustalnjiensis (Yeltyschewa and Stukalina, 1963). Stukalina, 1968c, p. 89. Stukalina, 1970b, p. 79. Webster, 1973, p. 318. Webster, 1977, p. 219. Webster, 1988, p. 197.
Ordovician, Sandbian. Russia, Central Taymyr

MACROSTYLOCRINUS Hall, 1852.

Webster, 1993, p. 171.
Recognized number of named columnal species: 1 Ordovician, Hirnantian species
Ordovician, Hirnantian. United Kingdom, Scotland

Macrostylocrinus cirrifer Ramsbottom, 1961. Dononvan, 1986d, p. 47, Figs. 16, nos. I-K; 17, no. L. Webster, 1993, p. 171.
Ordovician, Hirnantian (Ashgillian), Ladyburn Starfish Bed. United Kingdom, Scotland

MAGIANICRINUS Rakhmonov, 2008. **Magianicrinus xipholobus* Rakhmonov, 2008.
Rakhmonov, 2008, p. 252.
Recognized number of named columnal species: 1 Devonian, Eifelian species
Devonian, Eifelian. Uzbekistan

**Magianicrinus xipholobus* Rakhmonov, 2008, p. 252, Pl. 109, figs. 19-20.
Devonian, Eifelian, Khodzhakurgan Formation, Novikhuskh Beds. Uzbekistan, Zeravshan Range

Malformed stem Franzén, 1973, p. 291, Figs. 2; 5, no. B. Webster, 1986, p. 399.
Silurian, early Ludlovian, Klinteberg Beds. Sweden, Isle of Gotland

Malovicrinidae Stukalina, 1986, p. 96, Fig. 29, no. 2. Stukalina, 1988c, p. 44, Fig. 28, no.
2. Webster, 1993, p. 171.
Middle Ordovician - Early Silurian

MALOVICRINUS Stukalina, 1968. **M. fragosus* Yeltyschewa and Stukalina *in* Stukalina, 1968.
Stukalina, 1968c, p.86. Stukalina, 1970b, p. 77. Webster, 1973, p. 300. Webster, 1977, p. 206. Jeffords *in* Moore and Teichert, 1978, p. T934. Donovan, 1984a, p. 136. Hynda, 1986, p. 85. Stukalina, 1986, p. 55. Donovan, 1986d, p. 54. Webster, 1986, p. 366. Webster, 1988, p. 197. Webster, 1993, p. 171.
Recognized number of named columnal species: 8 Ordovician species, 3 Sandbian, 2 Sandbian – Katian, 3 Katian
Ordovician. Sandbian – katian.Kazakhstan, United Kingdom
Ordovician, katian. Estonia

Malovicrinus flosculus Yeltyschewa and Sukalina *in* Stukalina and Tujutjan, 1970, p. 63, Figs. 1, no. 10; 8. Webster, 1977, p. 206.
Ordovician, Sandbian – Katian, Akderken and Dulankaren Horizons. Kazakhstan

Malovicrinus fragosus Yeltyschewa and Stukalina *in* Stukalina, 1968c, p. 86, Fig. 2, nos. d-e Yeltyschewa and Stukalina *in* Stukalina, 1970b, p. 77, Fig. 2, nos. e-f. Webster, 1973, p 300. Webster, 1977, p. 206.
Ordovician, Katian. Kazakhstan

Malovicrinus implicatus Stukalina *in* Stukalina and Tujutjan, 1970, p. 63, Figs. 1, no. 9; 9. Webster, 1977, p. 206. Stukalina, 1985a, p. 177, Pl. 2, figs. 12-16.

Stukalina, 1986, p. 55, Pl. 7, figs. 15-19. Stukalina, 1988c, p. 57, Pl. 3, figs. 10-14. Webster, 1988, p. 197. Donovan, 1989e, p. 34, Fig. 17. Donovan, 1991c, p. 34, Fig. 17. Webster, 1993, p. 171.
Ordovician, Sandbian – Katian, Dulankaren Horizon; Sartanmanay Limestone. Kazakhstan; United Kingdom, Scotland

Malovicrinus cf. *implicatus* Stukalina *in* Stukalina and Tujutjan, 1970. Donovan, 1984a, p. 137, Pl. 1, figs. A-F; Fig. 3. Donovan, 1986d, p. 54, Pl. 6, figs. 2, 10; Fig. 22. Webster, 1988, p. 197. Webster, 1993, p. 171.
Ordovician, Sandbian, Caradocian, Craighead Limestone. Kingdom, Scotland

Malovicrinus incrustatus Stukalina, 1985a, p. 185, Pl. 2, figs. 17, 18. Stukalina, 1986, p. 55, Pl. 7, fig. 14. Stukalina, 1988c, p. 57, Pl. 3, figs. 15-16. Webster, 1988, p. 197. Webster, 1993, p. 171.
Ordovician, Sandbian, Sartanmanay Limestone. Southern Kazakhstan; Scotland

Malovicrinus janischewskii Yeltsychewa, 1979, p. 103, Pl. 2, fig. 9. Webster, 1986, p. 366.
Ordovician, Katian, Pirgu Horizon. Estonia

Malovicrinus quinpergulatus Stukalina and Tujutjan *in* Stukalina, 1980b, p. 101, Pl. 22, fig. 16. Webster, 1986, p. 366.
Ordovician, Sandbian, Anderken Horizon, Biogermne Limestone. Southern Kazakhstan

Malovicrinus rugosus Yeltyschewa and Sukalina *in* Stukalina and Tujutjan, 1970, p. 63, Figs. 1, no. 8; 7. Webster, 1977, p. 206.
Ordovician, Katian, Dulankaren Horizon. Kazakhstan

Malovicrinus sp.
Hynda, 1979, p. 71, Pl. 1, figs. 3-4; Fig. 5. Webster, 1986, p. 366.
Ordovician, Darriwilian, Lasnamyagi Horizon, Ukhaku Horizon. Russia, Volhyn
Le Menn *in* Chauvel and Le Menn, 1979, p. 576, Pl. 3, figs. 9-11. Webster, 1986, p. 366.
Ordovician, Katian (Ashgillian). Spain
Hynda, 1986, p. 86, Pl. 13, figs. 10-11; Fig. 31. Webster, 1993, p. 171.
Middle Ordovician, Darriwilian, Russia, Eastern European Platform

Malovicrinus? sp. Botquelen, Le Menn, and Loi, 2006, p. 20, Fig. 3, no. 18.
Ordovician, Katian (Ashgillian), Portixeddu Formation. Italy, Sardinia

MAMILLACRINUS Stukalina, 2000. **Mamillacrinus lobatus* Stukalina, 2000.
Stukalina, 2000, p. 60.
Recognized number of named columnal species: 1 Early Silurian species
Early Silurian, upper part of Agidyiskogo Horizon. Russia, Siberian Platform

**Mamillacrinus lobatus* Stukalina, 2000, p. 60, Pl. 20, figs. 1-2; Fig. 12, no. 4.

Early Silurian, upper part of Agidyisky Horizon, upper part of Omnutakhsky Suite. Russia, Siberian Platform

MARETTOCRINUS Le Menn, 1981. **M. tenuis* Le Menn, 1981.
Le Menn, 1981, p. 268. Webster, 1988, p. 197. Webster, 1993, p. 171. Ebert, 1994, p. 42. Franke, C., 2012, p. 61.
Recognized number of named columnal species: 9 Devonian species, 1 Lochkovian, 2 Pragian, 2 Emsian, 1 Eifelian – Givetian, 1 Eifelian; - Frasnian, 1 Givetian, 1 Givetian - Frasnian
Devonian, Lochkovian - Frasnian. Europe; Kazakhstan; Russia

Marettocrinus angustannulus (Dubatolova, 1975). Le Menn, 1985, p. 135, Pl. 30, figs. 5-11. Le Menn, 1987b, p. 818, Pl. 3, figs. 3-4. Webster, 1988, p. 197. Webster, 1993, p. 171.
Hexacrinites? angustannulus Dubatolova, 1975a, p. 12, Pl. 2, figs. 3-7; Fig. 5. Le Menn, 1985, p. 135. Webster, 1986, p. 358. Webster, 1988, p. 197. Gluchowski, 1993a, p. 55, Fig. 9, no. J.
Devonian, Eifelian, Beisk Horizon, Quelern Formation, Kersadiou Formation. Russia, Southern Minusin Basin; France, Armorican Massif
Devonian, Eifelian-Givetian boundary, Skaly Beds; Givetian, Dziewki Limestone. Poland

Marettocrinus brevicrenellatus (Le Menn, 1970). Le Menn, 1981, p. 270. Le Menn, 1985,
p. 134, Pl. 27, figs. 20-21. Webster, 1988, p. 197.
Hexacrinites? brevicrenellatus Le Menn, 1970a, p. 26, Pl. 4, figs. 4-5. Le Menn, 1970b, p. 368, Fig. 3. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 306, Pls. 28, fig.15; 29, fig. 6. Webster, 1977, p. 202. Le Menn, 1981, p. 270. Webster, 1986, p. 358. Webster, 1988, p. 197.
Devonian, Pragian (Siegenian), Grauwacke du Faou. France, Amorican Massif

Marettocrinus? crateriformis Le Menn, 1985, p. 139, Pl. 31, figs. 4-7. Webster, 1988, p. 198. Gluchowski, 1993b, p. 169, Pl. 4, fig. 1.
Devonian, late Emsian, Beg an Arreun Formation. France, Armorican Massif
Devonian, late Emsian, Zagorze Formation, Bukowa Gora Shale Formation. Poland

Marettocrinus depressus (Le Menn, 1970). Le Menn, 1981, p. 270. Le Menn, 1985, p. 133, Pl. 29, figs. 10-11. Webster, 1988, p. 198.
Hexacrinites? depressus Le Menn, 1970a, p. 34, Pl. 5, figs. 7-8. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 307, Pl. 28, figs. 24-25. Webster, 1977, p. 202. Le Menn, 1981, p. 270. Webster, 1986, p. 359. Webster, 1988, p. 198.
Devonian, Pragian (Siegenian), Grauwacke du Faou. France

Marettocrinus kartzevae (Yeltyschewa and Dubatolova *in* Dubatolova and Yeltyschewa, 1961). Le Menn, 1981, p. 270. Le Men, 1985, p. 135, Pls. 29, figs. 17-22; 30, figs. 1-4. Le Men, 1987b, p. 818, Pl. 3, figs. 5-6. Webster, 1988, p. 198. Gluchowski, 1993a, p. 55, Fig. 9, nos. K-L. Webster, 1993, p. 172. Ebert, 1994,

p. 45, Pl. 2, fig. 19; Figs. 73-74.
Hexacrinites? kartzevae Yeltyschewa and Dubatolova, 1961, p. 554, Pl. D-87, figs. 3-4. Yeltyschewa and Dubatolova, 1964, p. 40, Pls. 4, figs. 7-10; 5, fig. 1. Dubatolova and Yeltyschewa, 1969, p. 60, Pl. 15, figs. 3-5. Webster, 1973, p. 297. Webster, 1977, p. 203. Gluchowski, 1981b, p. 33, Pl. 2, fig. 8. Webster, 1988, p. 198. Milicina, 1989, p. 102, Pl. 1, fig. 8. Stukalina, 1991, p. 160, Fig. 11, no. m. Webster, 1993, p. 164.
Hexacrinites? kartzaeva Yeltyschewa and Dubatolova, 1961. Le Menn, 1981, p. 270 (sic).
Laudonomphalus kartzevae (Yeltyschewa and Dubatolova, 1961). Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 14. Gluchowski, 1986, p. 12, Fig. 1, nos. a-b. Stukalina, 1991, p. 160.
Laudonomphalus tuberosus Moore and Jeffords, 1968. Stukalina, 1991, p. 160.
Devonian, Givetian-Frasnian, Taltii Horizon; Pribalkhash Horizon; Lanvoy Formation. Kazakhstan, Armenia; France
Devonian, Eifelian-Givetian boundary - early Frasnian, Skaly Beds, Laskowa Gjora Beds; lower and middle parts of Wietrznia Beds; *Phlogoiderhynchus* Level. Poland
Devonian, Eifelian, Mühlenberg Formation. Germany

Marettocrinus limbatus Le Menn, 1985, p. 137, Pl. 30, figs. 12-18. Le Men, 1987b, p. 818, Pl. 3, fig. 7. Webster, 1988, p. 197. Webster, 1993, p. 172.
Devonian, Givetian, Kergarvan Formation. France, Armorican Massif

Marettocrinus maculosus (Dubatolova, 1964). Le Menn, 1981, p. 270. Webster, 1988, p. 198.
Hexacrinites? maculosus Dubatolova, 1964, p. 41, Pl. 5, fig. 2. Webster, 1973, p. 297. Le Menn, 1981, p. 270. Webster, 1988, p. 198.
Devonian, Givetian-Frasnian: Russia, Kuznetz Basin

Marettocrinus subbiconcavus (Stukalina, 1965). Gluchowski, 1993b, p. 169, Pl. 3, fig. 6.
Hexacrinites? subbiconcavus Stukalina, 1965b, p. 189, Pl. 1, figs. 1-4. Webster, 1973, p. 297. Milicina, 1977a, p. 140, Pl. 59, figs. 8-11. Stukalina, 1978c, p. 56, Pl. 13, fig. 16. Gluchowski, 1981b, p. 33, Pl. 2, fig. 4. Stukalina, 1986, p. 85, Pls. 21, fig. 8; 22, fig. 1; Tab. 5. Webster, 1986, p. 360. Stukalina, 1988c, Fig. 31. Webster, 1988, p. 191. Stukalina, 1991, p. 156. Gluchowski, 1993b, p. 169. Webster, 1993, p. 165.
Laudonomphalus subbiconcavus (Stukalina, 1965). Gluchowski, 1986, p. 8, Fig. 1, no. e. Gluchowski, 1993b, p. 169.
Early Devonian, Pribalkhash Horizon, Layer with *Decacrinus pennatus-Leptostrophis rotunda*. Russia, Kazakhstan, Ural Mountains
Devonian, Lochkovian (Gedinnian), late Emsian, Bostow Beds, Zagorze Formation. Poland

**Marettocrinus tenuis* Le Menn, 1981, p. 270, Pl. 33, figs. 1-6. Le Men, 1985, p. 134, Pl. 29, figs. 12-16. Le Men, 1987b, p. 818, Pl. 3, figs. 1-2. Webster, 1988, p. 198. Webster, 1993, p. 172. Ebert, 1994, p. 42, Pl. 3, fig. 1; Figs. 41, 71, 74.

Devonian, late Emsian, Marettes Formation; *Orthocrinus* Formation. France, Armorican Massif

Marettocrinus spp.
Ebert, 1994, p. 22, Fig. 12.
Devonian, Emsian - Givetian. Germany
Le Menn in Le Menn et al., 2002, p. 29.
Devonian, Pragian, Lower part of Monte das Russianas Formation. Portugal

Marettocrinus? sp. Franke, C., 2012, p. 61, Pl. 26, figs. 12-13
Devonian, Emsian, Mulden group. Germany, Rhenischen Schiefergebirge

MARIACRINUS Hall, 1858 = ***CTENOCRINUS***

Mariacrinus flabellatus Salter, 1873 (part) = Massive distal stem segment or rooting device with cirri

Mariacrinus flabellatus Salter, 1873 (part) = Cirrus root

Mariacrinus stoloniferus Hall, 1859 = *Pandocrinus stoloniferus?*

Massive concial attachment-disk Brower and Veinus, 1978, p. 474, Pl. 25, fig. 7. Webster, 1986, p. 399.
Ordovician, Katian, Decorah Shale. United States, Minnesota

Massive distal stem segment or rooting device with cirri Brower, 1976, p. 676, Pl. 102, fig. 5. Webster, 1986, p. 399.
Mariacrinus flabellatus Salter, 1873, p. 122 (part) (*nomem nudum*). Bassler and Moodey, 1943, p. 546. Brower, 1976, p. 676.
Ordovician, Katian, Decorah Shale. United States, Minnesota

MEDINECRINUS Stukalina, 1965. **Pentagonopentagonalis vitreus* Stukalina, 1961.
Stukalina, 1965b, p. 140. Webster, 1973, p. 300. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 85. Webster, 1986, p. 366. Webster, 1993, p. 172.
Recognized number of named columnal species: 2 species. 1 Late Silurian, 1 late Silurian – Early Devonian
Early Silurian - Devonian, Lochkovian. Kazakhstan

**Medinecrinus vitreus* (Stukalina, 1961). Stukalina, 1991, p. 149, 199, Pl. 49, fig. 1; Fig. 16, no. z. Stukalina, 1965b, p. 139, Pl. 1, figs. 7-9; Figs. 5-6. Dubatolova, 1968, p. 149, Pl. 15, fig. 10; Fig. 7. Webster, 1973, p. 300. Gluchowski, 1977, p. 309, Fig. 6. Webster, 1986, p. 366.
Pentagonopentagonalis vitreus Stukalina, 1961, p. 35, Pl. 1, fig. 5. Stukalina, 1965b, p. 141. Webster, 1973, p. 300. Stukalina, 1991, p. 199.
Late Silurian - Devonian, Lochkovian (Gedinnian), Karaespinian Horizon, Ainasu,
Kokbaital Horizon, and lower part of Pribalkhash Horizon. Kazakhstan

Medinecrinus vulgaris Stukalina, 1986, p. 85, Pl. 32, fig. 1 (*nomen nudum*). Stukalina, 1988c, p. 58, Pl. 4, figs. 26-27 (*nomen nudum*), no description. Webster, 1993, p. 172.
Late Silurian, Tokrau Horizon. Kazakhstan

MEDIOCRINUS Stukalina, 1965. **Pentagonocyclicus medius* Yeltyschewa *in* Stukalina, 1965.
Stukalina, 1965b, p. 139. Dubatolova, 1971, p. 75. Webster, 1973, p. 300. Webster, 1977, p. 206. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 59. Webster, 1986, p. 366. Webster, 1988, p. 198. Webster, 1993, p. 172.
Recognized number of named columnal species: 20 species. 2 Late Silurian – Early Devonian; 16 Devonian, 1 Emsian, 2 Early Devonian uncertain, 1 Early – Middle Devonian uncertain, 8 Eifelian, 1 Eifelian – Givetian, 1 Givetian, 1 Middle Devonian uncertain, 1 Devonian uncertain; 2 Mississippian, Tournaisian
Late Silurian - Middle Devonian. Russia; Kazakhstan
Devonian, Emsian. Czech Republic
Devonian, Eifelian – Givetian. Poland
Devonian, givetian. France
Mississippian, Tournaisian. Kazakhstan

Mediocrinus collatus Dubatolova, 1980, p. 126, Pl. 18, figs. 6-7; Fig. 18. Webster, 1986, p. 367. Dubatolova, 1988, p. 72, Pl. 15, figs. 8-10; Fig. p. 68, no. zh. Webster, 1993, p. 172.
Devonian, Eifelian, Ilin Suite, upper part of Beloubin Suite. Russia, Altai Mountains

Mediocrinus crassotuberculatus Zinevich, 1988, p. 82, Pl. 18, figs. 3-4; Fig. p. 81, no. v. Webster, 1993, p. 172.
Devonian, Eifelian, Losishin Suite. Russia, Altai Mountains

Mediocrinus diversiformis Dubatolova, 1975a, p. 20, Pls. 4, figs. 8-9; 5, fig. 1; Fig. 11. Dubatolova and Dubatolova, 1982, p. 40, Pl. 1, figs. 8-11; Fig. 3. Webster, 1986, p. 367. Webster, 1988, p. 198.
Devonian, Eifelian. Russia, Southern Minusin and Tuvin Depressions

Mediocrinus inamoenus Dubatolova, 1971, p. 76, Pl. 8, fig. 10; Fig. 35. Webster, 1977, p. 207.
Early Devonian. Russia, Altai Mountains, Salair

Mediocrinus ivanovi (Yeltyschewa and Dubatolova *in* Dubatolova, Yeltyschewa and Modzalevskaya, 1967). Dubatolova, 1971, p. 75.
Pentagonocyclicus ivanovi Yeltyschewa and Dubatolova *in* Dubatolova, Yeltsychewa and Modzalevskaya, 1967, p. 55, Pl. 5, figs. 20-22; Fig. 21. Dubatolova, 1971, p. 75. Webster, 1973, p. 308. Webster, 1977, p. 207.
Early - Middle Devonian. Russia, Upper Priamur

Mediocrinus kozlovi Dubatolova, 1980, p. 125, Pl. 18, figs. 2-5; Fig. 17. Webster, 1986, p. 367.
Devonian, Eifelian. Russia, Altai Mountains

Mediocrinus latilobus Dubatolova, 1975a, p. 19, Pl. 4, figs. 6-7; Fig. 10. Dubatolova and Dubatolova, 1982, p. 38, Pl. 1, figs. 4-7; Fig. 2. Webster, 1986, p. 367. Webster, 1988, p. 198.
Devonian, Eifelian. Russia, Southern Minusinsk and Tuvinsk Depressions

Mediocrinus maltus (Dubatolova, 1964). Webster, 1977, p. 207.
Pentagloncyclicus maltus Dubatolova, 1964, p. 86, Pl. 12, figs. 14-15; Fig. 13. Dubatolova, 1971, p. 75. Webster, 1973, p. 308. Webster, 1977, p. 207.
Mediocrinus multus (Dubatolova, 1964). Dubatolova, 1971, p. 75 (sic).
Devonian, Eifelian. Russia, Kuznetz Basin

**Mediocrinus medius* Yeltyschewa *in* Stukalina, 1965b, p. 139, Pl. 1, figs. 7-9; Figs. 5-6. Dubatolova, 1968, p. 149, Pl. 15, fig. 10; Fig. 7. Stukalina, 1971, p. 194, Pl. 1, fig. 6. Milicina, 1973, p. 25, Pl. 4, figs. 3-4. Webster, 1973, p. 300. Stukalina, 1975, p. 136, Pl. 36, fig. 12. Webster, 1977, p. 207. Stukalina, 1986, p. 59, Pl. 17, figs. 16-17; Fig. 13, no. 3. Webster, 1986, p. 367. Stukalina, 1988c, p. 58, Pl. 4, fig. 17. Fig. 25, no. 2. Stukalina, 1991, p. 168, Fig. 16, nos. a-g. Webster, 1993, p. 172. Kurilenko *in* Kurilenko et al., 2002, p. 148, Pl. 54, figs. 13-14.
Late Silurian - Early Devonian, Silurian - Devonian boundary beds, Ainasu Horizon; Elkin Horizon; Isov Horizons; Kokbaital Horizon; Tom-Chum Horizon, lower part of Rekov Beds. Russia, Central Kazakhstan, Ural Mountains
Devonian, Lochkovian. Russia, Far East, Transbaikal

Mediocrinus microgrumosus Dubatolova, 1971, p. 78, Pl. 9, figs. 3-7; Fig. 37. Milicina, 1977b, p. 135, Pl. 5, fig. 4; Fig. 11. Webster, 1977, p. 207. Gluchowski, 1980b, p. 21, Figs. 2-6. Gluchowski, 1981b, p. 41, Pl. 2, fig. 13. Webster, 1986, p. 367. Webster, 1988, p. 198. Gluchowski, 1993a, p. 54, Fig. 12, nos. F-G.
Devonian, Eifelian-Givetian. Russia, Salair, Altai Mountains
Devonian, Eifelian, "Dabrowa Limestone"; Eifelian-Givetian Boundary, Skaly Beds. Poland

Mediocrinus multus (Dubatolova, 1964) = *Mediocrinus maltus*

Mediocrinus notabiis Milicina, 1977b, p. 134, Pl. 5, fig. 1; Fig. 10. Webster, 1986, p. 367.
Devonian, Eifelian, Zone of *Conchidiella*: Russia, Ural Mountains

Mediocrinus persimilis (Dubatolova, 1964). Dubatolova, 1971, p. 75. Webster, 1977, p. 207.
Pentagonocyclicus persimilis Dubatolova, 1964, p. 83, Pl. 11, fig. 9. Dubatolova, 1971, p. 75. Webster, 1973, p. 309. Webster, 1977, p. 207.
Early Devonian. Russia, Kuznetz Basin

Mediocrinus porretotuberculatus Zinevich, 1988, Pl. 18, fig. 5; Fig. p. 81, no. g. Webster, 1993, p. 172.
Devonian, Eifelian, Losishin Suite. Russia, Rudny Altai

Mediocrinus(?) *rabulatus* Sisova, 1991, p. 154, Pl. 1, fig. 5.
Mississippian, late Tournaisian. Southern Kazakhstan

Mediocrinus(?) *repandus* Sisova, 1991, p. 153, Pl. 1, fig. 4.
Mississippian, late Tournaisian. Southern Kazakhstan

Mediocrinus rugatus (Stukalina, 1961). Stukalina, 1965b, p. 140, Pl. 2, fig. 15. Stukalina,
1971, p. 194, Pl. 1, fig. 7. Webster, 1973, p. 300. Webster, 1977, p. 207. Stukalina, 1986, p. 33, Fig. 13, no. 4. Stukalina, 1988c, p. Fig. 25, no. 3. Stukalina, 1991, p. 169, Fig. 19, nos. zh, e. Webster, 1993, p. 172.
Pentagonocyclicus rugatus Stukalina, 1961, p. 39, Pl. 1, fig. 4. Stukalina, 1965b, p. 140. Webster, 1973, p. 300.
Late Silurian - Early Devonian, Karaespin Horizon; Kokbaital Horizon; Ainasu Horizon. Kazakhstan
Late Silurian - Early Devonian. Russia, Pribalkhash

Mediocrinus(?) *simplex* Sisova, 1991, p. 154, Pl. 1, fig. 6.
Mississippian, late Tournaisian. Cental and southern Kazakhstan

Mediocrinus squamosus Dubatolova, 1971, p. 77, Pl. 9, figs. 1-2; Fig. 36. Webster, 1977, p. 207.
Middle Devonian. Russia, Altai Mountains

Mediocrinus squiffiecensis Le Menn, 1985, p. 152, Pl. 34, figs. 9-12. Webster, 1988, p. 198.
Devonian, Givetian, Kerbelec Formation. France, Armorican Massif

Mediocrinus stukalinae Prokop and Slámová*, 2012, p 135, Pl. 1, figs. 13-17; Fig. 3.*
Devonian, early Emsiam Zlichow Limestone. Czech Republic, Barrandian area

Mediocrinus vastus (Yeltyschewa and Dubatolova, 1960) = *Vasticrinus vastus*

Mediocrinus sp. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 9.
Devonian, late Givetian. Poland

Mediocrinus? sp. Schewtschenko, 1989, p. 90, Pl. 1, fig. 22. Webster, 1993, p. 172.
Devonian, Eifelian. Tadzhikstan, southern Tien Shan

MEGALOCRINUS Schewtschenko, 1971. **M. latilobatus* Schewtschenko, 1971.
Stukalina, 1971, p. 11, Pl. 3, fig. 12. Webster, 1977, p. 207. Stukalina, 1986, p. 60. Webster, 1993, p. 173. Stukalina, 2000, p. 43.
Recognized number of named columnal species: 6 Silurian species, 2 Early Silurian uncertain, 4 Wenlockian

Early Silurian. Russia, Siberian Platform
Silurian, Wenlockian. Tadzhikstan, Tien Shan

Megalocrinus brevis Schewtschenko, 1971, p. 13, Pl. 3, figs. 6, 9; Fig. 13. Webster, 1977, p. 207.
Silurian, middle Wenlockian. Tadzhikstan, Zeravshan-Gissar Mountain Region

Megalocrinus dukdonicus Schewtschenko, 1971, p. 12, Pl. 3, fig. 10; Fig. 12. Webster, 1977, p. 208.
Silurian, middle Wenlockian. Tadzhikstan, Zeravshan-Gissar Mountain Region

Megalocrinus latebrosus Schewtschenko, 1971, p. 12, Pl. 3, fig. 11; Fig. 11. Webster, 1977, p. 207.
Silurian, middle Wenlockian. Tadzhikstan, Zeravshan-Gissar Mountain Region

Megalocrinus latilobatus Schewtschenko, 1971, p. 11, Pl. 3, figs. 1-4, 8; Fig. 10. Webster, 1977, p. 208.
Silurian, middle Wenlockian. Tadzhikstan, Zeravshan-Gissar Mountain Region

Megalocrinus pentalobatus Stukalina, 1988c, p. 57, Pl. 4, figs. 1-3 (*nomen nudum*), no description. Webster, 1993, p. 173. Stukalina, 2000, p. 43, Pls. 8, fig. 1; 13, figs. 1-4, 6, 9-10, 12; 14, fig. 1; Fig. 9, no. 1.
Early Silurian, Khaastyr Horizon. Russia, Siberian Platform

Megalocrinus simplex Stukalina, 2000, p. 45, Pls. 10, fig. 11; 16, fig. 1; 17, fig. 1; 21, fig. 1; Fig. 9, no. 2.
Early Silurian, Khakomsky Horizon, Khakomsky Suite. Russia, Siberian Platform

Megalocrinus sp. Stukalina, 2000, p. 106, Pl. 24, fig. 1.
Early Silurian, Pogranichnye Sloi Khakomsky and Tukalsky Horizons. Russia, Siberian Platform

MEGGENOCRINUS Ebert, 1994. **M. grandistellatus* Ebert, 1994.
Ebert, 1994, p. 58.
Recognized number of named columnal species: 1 Devonian, Emsian – Eifelian species
Devonian, late Emsian - Eifelian. Germany

**Meggenocrinus grandistellatus* Ebert, 1994, p. 58, Pl. 3, figs. 19-21; Figs. 57-58, 71-74.
Devonian, late Emsian - Eifelian, Hobräck Formation; Mühlenberg Formation; *Orthocrinus* Formation; Stöppel Formation. Germany

MEGISTOCRINUS Owen and Shumard, 1852.
Recognized number of named columnal species: 1 Mississippian species, series uncertain
–Mississippian. United Kingdom

Megistocrinus? *globosus*? (Phillips, 1836). Donovan, 2010, p. 46, Pl. 3.
Mississippian, beach erratic. United Kingdom, north Norfolk

MELOCRINITES Goldfuss, 1826.
Schewtschenko, 1966, p. 133. Webster, 1973, p. 300.
(See **note** under *KUZBASSOCRINUS*)
Recognized number of named columnal species: 11 species. 3 Late Silurian; 8 Devonian, 1 early Devonian, 7 Givetian
Late Silurian - Middle Devonian. Tadzhikstan
Early Devonian. Russia, Kuznetz Basin

Melocrinites binidigitatus (Yeltyschewa, 1957) = *Kuzbassocrinus binidigitatus*

Melocrinites bisulcus Schewtschenko, 1966, p. 141, Pl. 4, fig. 13: Fig. 11. Webster, 1973, p. 301.
Devonian, Givetian Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites brevilobatus Schewtschenko, 1966, p. 139, Pl. 2, figs. 11-13; Fig. 8. Webster, 1973, p. 301.
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites bystrowi (Yeltyschewa, 1957) = *Kuzbassocrinus bystrowi*

Melocrinites cingulatus Schewtschenko, 1966, p. 137, Pl. 1, figs. 5-7, 9; Fig. 6. Webster, 1973, p. 301.
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites cylindricus Schewtschenko, 1966, p. 140, Pl. 2, fig. 1; Fig. 9. Webster, 1973, p. 301.
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites decemlobatus (Yeltyschewa, 1957) = *Kuzbassocrinus decemlobatus*

Melocrinites impalpabilis (Dubatolova, 1968) = *Kuzbassocrinus impalpabilis*

Melocrinites lanceolatus Schewtschenko, 1966 = *Kuzbassocrinus lanceolatus*

Melocrinites mixtus Schewtschenko, 1966, p. 144, Pl. 2, figs. 3-4; Fig. 14. Webster, 1973, p. 301.
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites parvus Schewtschenko, 1966, p. 136, Pl. 6, figs. 1-2, 9; Fig. 5. Webster, 1973, p. 301.
Late Silurian, Tiverskian, Shichkat Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites paucicostalus (Yeltyschewa, 1957) = **Tastjicrinus paucicostalus*

Melocrinites perpetuus Schewtschenko, 1966, p. 138, Pl. 6, figs. 21-22; Fig. 7. Webster, 1973, p. 301.
Late Silurian, Tiverskian, Shishkat Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites schyschcatus Schewtschenko, 1966, p. 141, Pl. 6, fig. 20; Fig. 10. Webster, 1973, p. 302.
Late Silurian, Tiverskian, Shishkat Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites simplex Schewtschenko, 1966, p. 145, Pl. 2, figs. 7-10; Fig. 15. Webster, 1973, p. 302.
Devonian, Givetian, Pandzhrut Horizon; Kshtut Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites subtilis Schewtschenko, 1966 = *Kuzbassocrinus subtilis*

Melocrinites tuberculatus Schewtschenko, 1966 = *Kuzbassocrinus tuberculatus*

Melocrinites verrucosus Schewtschenko, 1966, p. 147, Pl. 4, fig. 18; Fig. 17. Webster, 1973, p. 302.
Devonian, Givetian, Pandzhrut Horizon. Tadzhikstan, Tien Shan Mountains

Melocrinites yeltyschewae (Dubatolova, 1964). Webster, 1973, p. 302.
Kuzbassocrinus yeltyschewae Dubatolova, 1964, p. 54, Pl. 7, figs. 4-5. Webster, 1973, p. 302.
Early Devonian. Russia, Kuznetz Basin

Melocrinites spp.
Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 9.
Devonian, late Givetian. Poland
Gluchowski, 1993a, p. 40, Fig. 3, nos. A-F.
Devonian, late Frasnian, Detrital Beds. Poland

Melocrinites? sp. Le Menn in Le Menn, et al., 2002, p. 27, Pl. 2, figs. 27-30.
Devonian, late Pragian-early Emsian, Monte das Russianas Formation. Portugal

Melocrinus cingulatus d'Orbigny, 1849 = *Actinocrinites cingulatus*

Melocrinus laevis Goldfuss, 1831. Eichwald, 1860, p. 607.
Ordovician. Estonia, Podolia

Melocrinus lamellosus Eichwald, 1860, p. 607, Pl. 33, figs. 13a-13b.
Devonian, Coroux Limestone. Russia, Isle of Oesel

Melocrinus moniliferus (Goldfuss, 1831) = *Actinocrinites moniliferus*

Melocrinus spp.
Wells, 1939, p. 105, Fig. 1b.

Late Devonian, Ohio Shale. United States, Ohio
Titus, 1979, p. 118, Figs. 7, no. 3; 9, no. 10. Webster, 1986, p. 367.
Ordovician, Katian (early Trentonian). United States, New York

Melocrinus? spp.
Oppenheimer, 1916, p. 182.
Devonian, Frasnian or Fammenian?, Cephalopod Limestone. Germany
Le Menn in Le Menn, et al., 2002, p. 27, Pl. 2, figs. 27-30.
Devonian, late Pragian-early Emsian, Monte das Russianas Formation. Portugal

Mere fragment.
Donovan, 1986d, p. 60, Pl. 6, figs. 3, 5, 6. Webster, 1993, p. 173.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom, Scotland
Donovan, 1986d, p. 61, Pl. 5, fig. 5. Webster, 1993, p. 173.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

MEROCRINUS Walcott, 1883.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian (middle Champlainian - early Cincinnatian). United States

Merocrinus curtus Ulrich, 1879. Meyer et al., 2002, p. 727, Fig. 2, no. 5.
Late Ordovician, Katian, Kope and Fairview Formations. United States, Ohio, Kentucky

Merocrinus sp. McLaughlin and Brett, 2007, p. 261, Figs. 6; 7, nos. A-C; 11, nos. A; 12, nos. B, C, F; 14.
Late Ordovician, Katian (Cincinnatian), Lexington Limestone, Kope Formation. United States, Kentucky

MESPILOCRINUS de Koninck and Le Hon, 1854.
Haude, 1981, p. 188, Fig. 1, no. h.
Recognized number of named columnal species: 1 1 Mississippian, Viséan species
Mississippian, Viséan. United States

Mespilocrinus columnals Ausich and Meyer, 1992, p. 830, Figs. 1.18-1.19.
Mississippian, Viséan. (late Osagean), Fort Payne Formation. United States, Kentucky

MESTYRITES Rafinesque, 1819. *Nomen nudum*
Rafinesque, 1819, p. 429. Jeffords *in* Moore and Teichert, 1978, p. T937. (unrecognizable columnals)
Recognized number of named columnal species: 3

Mestyrites ceratodes Rafinesque, 1819, p. 429 (*nomen nudum*).

Mestyrites cruciata Rafinesque, 1819, p. 429 (*nomen nudum*).

Mestyrites perforata Rafinesque, 1819, p. 429 (*nomen nudum*).

METICHTHYOCRINUS Springer, 1906.
Mississippian, Viséan (Osagean). United States

Metichthyocrinus? sp. Termier, G. and Termier, H., 1950, p. 92, Pl. 218, figs. 46-52. Webster, 1973, p. 302.
Carboniferous, Westphalian. Morocco

Microcrinoid holdfasts gen. et sp. indet. Webster and Jell, 1992, p. 336, Fig. 10, nos. I-M.
Permian, late Sakmarian or early Artinskian, Callytharra Limestone. Australia, Western Australia, Carnarvon Basin

MILLERICRINUS d'Orbigny, 1841. **Encrinites milleri* von Schlotheim, 1823.
Jurassic

Millercrinus sp. Sangil, 1955, p. 253, Fig. 3, no. A (sic). Webster, 1973, p. 302.
Paleozoic?

MIRABILICRINUS Stukalina, 1979. **Pentagonopentagonalis mirabilis* Yeltyschewa, 1955.
Stukalina, 1979a, p. 146. Stukalina, 1986, p. 60. Webster, 1986, p. 367. Webster, 1988, p. 198. Webster, 1993, p. 173.
Recognized number of named columnal species: 2 Ordovician, Darriwilian species
Ordovician, Darriwilian. Russia, Urals, Taymyr
Ordovician, Darriwilian. Kazakhstan

Mirabilicrinus lidievensis Stukalina, 1980d, p. 234, Pl. 2, fig. 8; Fig. 4, no. 1. Webster, 1986, p. 367.
Ordovician, Darriwilian, Erkebidaik Horizon. Northern Kazakhstan

**Mirabilicrinus mirabilis* (Yeltyschewa, 1955). Stukalina, 1979a, p. 146, Pl. 31, figs. 5-6; Fig. 32, no. a. Stukalina, 1982c, p. 179, Fig. 11, no. 2. Stukalina, 1984, p. 101, Pl. 37, figs. 7-8. Stukalina, 1986, p. 60, Pl. 11, fig. 2-3; Fig. 10, no. 1. Webster, 1986, p. 368. Stukalina, 1988c, p. 58, Pl. 5, figs. 5-6; Fig. 26, no. 2. Webster, 1988, p. 199. Webster, 1993, p. 173.
Pentagonopentagonalis mirabilis Yeltyschewa, 1955a, p. 44, Pl. 23, fig. 2. Yeltsychewa, 1960, p. 7, Pl. 1, figs. 7-8. Yeltyschewa and Stukalina, 1963, p. 47, Pl. 1, fig. 7; Fig. 15. Yeltyschewa, 1968, p. 123, Pl. 23, fig. 1. Webster, 1973, p. 313. Stukalina, 1979a, p. 146. Webster, 1986, p. 368. Webster, 1988, p. 204.
Pentagonopentagonalis tridens Yeltsychewa, 1955a, p. 43, Pl. 23, fig. 3. Yeltyschewa, 1960, p. 8, Pl. 2, figs. 12-13. Yeltyschewa, 1964b, p. 75, Pl. 15, fig. 15. Webster, 1973, p. 313. Stukalina, 1979a, p. 146. Webster, 1986, p. 368.
Ordovician, Darriwilian, Mangaze Horizon, Baksan Horizon; Tarniuryakh Suite. Russia, Siberian Platform, Taymyr

MIRMUS de Gregorio, 1930. **M. ruptus* de Gregorio, 1930.
de Gregorio, 1930, p. 40. Bassler and Moodey, 1943, p. 565. Jeffords *in* Moore and Teichert, 1978, p. T937 (unrecognizable).
Recognized number of named columnal species: 1 Permian, Wordian species
Permian, Wordian. Sicily

**Mirmus ruptus* de Gregorio, 1930, p. 40. Bassler and Moodey, 1943, p. 565.
Permian, Wordian. Sicily

Monobathra indéterminé Termier, G. and Termier, H., 1950, p. 214, Pl. 215, figs. 8-9. Webster, 1973, p. 329.
Middle Devonian. Morocco

Monobathrid gen. et sp. nov. Donovan, 1988 = **Celtocrinus ubaghsi*

Mooreaneris waylandensis (Miller *in* Moore and Jeffords, 1968) = *Mooreanteris waylandensis*

MOOREANTERIS Miller *in* Moore and Jeffords, 1968. **M. waylandensis* Miller *in* Moore and Jeffords, 1968.
Miller *in* Moore and Jeffords, 1968, p. 66. Webster, 1973, p. 302. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1986, p. 368.
Recognized number of named columnal species: 2 Pennsylvanian species, 1 Atokan, Virgilian, 1 Virgilian
Pennsylvanian, Atokan. Mexico
Pennsylvanian, Virgilian. United States

Mooreanteris perforatus Moore and Jeffords, 1968, p. 67, Pls. 18, fig. 6; 27, fig. 10. Webster, 1973, p. 302.
Pennsylvanian, Virgilian, Belknap Limestone. United States, Texas

**Mooreanteris waylandensis* Miller *in* Moore and Jeffords, 1968, p. 67, Pl. 18, figs. 7-11. Moore *et al.*, 1968a, p. 16, Fig. 3, no. 2. Webster, 1973, p. 302. Ubaghs *in* Moore and Teichert, 1978, p. T79, Fig. 54, no. 9. Ciezskowski, 1979, p. 78, Fig. 5, no. 2. Buitrón, Patiño, and Moreno, 1987, p. 132, Fig. 6. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. i.
Mooreaneris waylandensis (Miller *in* Moore and Jeffords, 1968). Webster, 1986, p. 368 (sic).
Late Pennsylvanian, Virgilian, Graham Formation, Wayland Shale Member; Del Monte Formation. United States, Texas; Mexico
Pennsylvanian, Atokan = early late Moscovian, La Joya Formation. Mexico

Mooreanteris sp. undet. (A) Miller *in* Moore and Jeffords, 1968, p. 68, Pl. 19, fig. 13. Webster, 1973, p. 302.
Pennsylvanian, Virgilian, Graham Formation, Wayland Shale Member. United States, Texas

Morfotipo PRap/PG-001 Scheffler, 2007, p. 142, Fig. 2, nos. a-d.

Devonian, Emsian?, Ponta Grossa Formation. Brazil, Paraná Basin

Morfotipo PRap/PG-002 Scheffler, 2007, p. 144, Fig. 2, nos. e-g.
Devonian, Emsian?, Ponta Grossa Formation. Brazil, Paraná Basin

Morfotipo PRap/PG-003 Scheffler, 2007, p. 145, Fig. 2, nos. h-j.
Devonian, Emsian?, Ponta Grossa Formation. Brazil, Paraná Basin

Morfotipo PRap/PG-004 Scheffler, 2007, p. 146, Fig. 3, nos. a-g.
Devonian, Emsian?, Ponta Grossa Formation. Brazil, Paraná Basin

Morfotipo PRap/PG-005 Scheffler, 2007, p. 148, Fig. 3, nos. h-j.
Devonian, Emsian?, Ponta Grossa Formation. Brazil, Paraná Basin

Morfotipo PRap/PG-006 Scheffler, 2007, p. 148, Fig. 4, nos. a-b.
Devonian, Emsia?, Ponta Grossa Formation. Brazil, Paraná Basin

Morfotipo PRap/PG-007 Scheffler, 2007, p. 149, Fig. 4, nos. c-e.
Devonian, Emsian?, Ponta Grossa Formation. Brazil, Paraná Basin

Morfotipo PRap/PG-008 Scheffler, 2007, p. 150, Fig. 4, nos. f-h.
Devonian, Emsian?, Ponta Grossa Formation. Brazil, Paraná Basin

MORKOKACRINUS Stukalina, 1979. **Pentagonopentagonalis morcocaensis* Yeltyschewa, 1960.
Stukalina, 1979a, p. 145. Stukalina, 1986, p. 63. Webster, 1986, p. 368. Webster, 1988, p. 199. Webster, 1993, p. 173.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. Russia, Siberian Platform

**Morkokacrinus morcocaensis* (Yeltyschewa, 1960). Webster, 1993, p. 173.
Morkokacrinus morkokaensis (Yeltyschewa, 1960). Stukalina, 1979a, p. 145, Pl. 31, fig. 4; Fig. 31, no. g. Stukalina, 1984, p. 100, Pl. 37, fig. 5. Stukalina, 1986, p. 27, Fig. 10, no. 2. Webster, 1986, p. 368. Stukalina, 1988c, p. 41, Fig. 26, no. 4. Webster, 1988, p. 199. Webster, 1993, p. 173.
Pentagonopentagonalis morcocaensis Yeltyschewa, 1960, p. 9, Pl. 3, figs. 1-5. Yeltyschewa, 1964b, p. 75, Pl. 15, fig. 14. Webster, 1973, p. 313.
Pentagonopentagonalis morkokaensis Yeltyschewa, 1980. Stukalina, 1979a, p. 145. Webster, 1986, p. 368.
Ordovician, Darriwilian, Baksan Horizon. Russia, Siberian Platform

Morkokacrinus morkokaensis (Yeltyschewa, 1960) = *Morkokacrinus morcocaensis*

MOSCOVICRINUS Jaekel, 1918.
kPennsylvanian. Russia

Moscovicrinus sp. Ivanova, 1958, Pl. 2, fig. 2. Webster, 1973, p. 302.
Pennsylvanian, Moscovian. Russia, Moscow Syncline

Moule interne du canal pentagonal central d'une tige de Crinoide Termier, G. and Termier, H., 1950, p. 222, Pl. 219, fig. 26. Webster, 1973, p. 329.
No age given. Morocco

MULTIFIDOCRINUS Stukalina, 1980. **M. multifidus* Stukalina, 1980.
Stukalina, 1980b, p. 114. Stukalina, 1986, p. 81. Webster, 1986, p. 368. Webster, 1988, p. 199. Webster, 1993, p. 173.
Recognized number of named columnal species: 2 Ordovician species, 1 Sandbian, 1 Sandbian - Katian
Ordovician, Sandbian - Katian. Kazakhstan

**Multifidocrinus multifidus* Stukalina, 1980b, p. 114, Pl. 23, figs. 20-23; Fig. 19, no. 9. Webster, 1986, p. 368.
Ordovician, Sandbian – Katian, equivalent of Dulankaren Horizon. Central Kazakhstan

Multifidocrinus tenuicostatus Stukalina, 1985a, p. 189, Pl. 3, figs. 10-12. Stukalina, 1988c, p. 62, Pl. 10, figs. 4-5. Webster, 1988, p. 199. Webster, 1993, p. 173.
Ordovician, Sandbian, Sartanmanay Limestone. Kazakhstan

Multiplated holdfasts Rozhnov, 2002, p. S572, Fig. 36. (diagramatic)
Ordovician, Caradocian, Keila Horizon. Estonia

Muschketowicrinidae Stukalina, 1986, p. 94, Fig. 28, no. 4. Stukalina, 1988c, p. 37, Fig. 22, no. 10. Webster, 1993, p. 173.
Early Silurian

MUSCHKETOWICRINUS Yeltyschewa, 1982. **Pentagonocyclicus muschketowi* Schewtschenko, 1964.
Yeltyschewa, 1982, p. 175. Stukalina, 1982a, p. 188. Stukalina, 1986, p. 59. Webster, 1988, p. 199. Webster, 1993, p. 174.
Note. Stukalina designated the new genus, attributing authorship to Schewtschenko, on page 188 in the same issue of the same journal as Yeltyschewa. Since Yeltyschewa's article has page precidence (p. 175) I attribute authorship to Yeltyschewa, GDW, 2010.
Recognized number of named columnal species: 3 Silurian species, 2 Wenlockian, 1
Early Siurian uncertain
Silurian, Wenlockian-. Russia, Tuva
Silurian, Wenlockian. Tadzhikstan, Tien Shan

Muschketowicrinus alaschiskus Yeltyschewa, 1982, p. 175, Pl. 2, fig. 5. Webster, 1988, p. 199.
Early Silurian, Alavel Suite, Alash Layer. Russia, Tuva

**Muschketowicrinus muschketowi* (Schewtschenko, 1964). Yeltyschewa, 1982, p. 175. Stukalina, 1982a, p. 188. Webster, 1988, p. 199.

Pentagonocyclicus muschketowi Schewtschenko, 1964, p. 17, Pls. 2, fig. 2; 4, fig. 2. Schewtschenko, 1968a, p. 280, Pl. 66, fig. 3; Fig. 31. Schewtschenko, 1971, p. 22, Pl. 5, fig. 10; Fig. 26. Webster, 1973, p. 309. Webster, 1977, p. 212. Yeltyschewa, 1982, p. 175. Webster, 1988, p. 199.
Silurian, early Wenlockian. Tadzhikstan, Tien Shan Mountains, Zeravshan-Gissar Mountain Region

Muschketowicrinus quinquesulcatus Milicina, 2001a, p. 63, Pl. 8, figs. 6a-6b; Fig. 4, nos. a-b. Milicina, 2001b, p. 399, Pl. 8, figs. 6a-6b; Fig. 4, nos. a-b.
Silurian, late Wenlockian, Elkina Horizon. Russia, East slope of Ural Mountains

MUSICRINUS Donovan, 1985. **M. bodae* Donovan, 1985.
Donovan, 1985d, p. 352. Webster, 1988, p. 199.
Recognized number of named columnal species: 1 Ordovician, Katian speies
Ordovician, Katian. Sweden

**Musicrinus bodae* Donovan, 1985d, p. 354, Fig. 8. Webster, 1988, p. 199.
Ordovician, Katian (late Ashgillian). Sweden, Dalarna

MUSIVOCRINUS Termier H. and Termier, G.,1958 = *TETRABRACHIOCRINUS*

Musivocrinus arnouldi Termier, H. and Termier, G., 1958, p. 55, Pls. 4, figs. a-h; 5, fig. a. Webster, 1973, p. 302. Termier, Termier, and Vachard, 1977, p. 96, Pl. 18, figs. 2-3. Webster, 1986, p. 368.
Permian, Merbah el Oussif Series. Southern Tunisia

Musivocrinus sp. Termier, H. and Termier, G., 1958, p. 58, Pl. 5, figs. b-c. Webster, 1973, p. 302.
Permian. Tunisia

MUSTELOCRINUS Sisova, 1991. **Mustelocrinus mustelus* Sisova, 1991.
Sisova, 1991, p. 162.
Recognized number of named columnal species: 1 Mississippian, Tournaisian species
Mississippian, late Tournaisian. Southern Kazakhstan

**Mustelocrinus mustelus* Sisova, 1991, p. 162, Pl. 2, fig. 5.
Mississippian, late Tournaisian. Southern Kazakhstan

MYELODACTYLUS Hall, 1852. **M. convolutus* Hall, 1852.
Schewtschenko, 1971, p. 3. Webster, 1977, p. 208. Webster, 1988, p. 199. Webster,
1993, p. 174. Stukalina, 2000, p. 16. Donovan and Lewis, 2005, p. 344. Donovan et al., 2009, p. 10.
HERPETOCRINUS Salter, 1873, p. 118.
Recognized number of named columnal species: 10 species. 8 Silurian, 3 Llandoverian, 1 Llandoverian – Wenlockian, 2 Early Silurian uncertain, 1 Wenlockian, 1 Niagaran; 2 Devonian, 1 Lochkovian – Pragian, 1 Early Devonian

uncertain
Early Silurian, Llandoverian - Middle Devonian, Givetian United States; Europe

Myelodactylus ammonis (Bather, 1893). Moore and Jeffords, 1968, p. 32, Pl. 1, figs. 1-2. Webster, 1973, p. 302. Brett, 1981b, p. 366, Fig. 8, no. A. Donovan and Franzén-Bengtson, 1988, p. 70. Webster, 1988, p. 199. Donovan and Sevastopulo, 1989, p. 697, Pl. 80, figs. 1-9, 11-12. Fig. 5. Webster, 1993, p. 174. Prokop, 1997, p. 26, Fig. 1. Donovan et al., 2009, p. 13, Pls. 2, figs. 2, 3, 9; 3, figs. 1, 3, 4; 4, figs. 16, 17, 22-24; Figs. 3-4.
Silurian, Niagaran, Waynesville Formation; Brownsport Formation. United States, Tennessee
Silurian, Llandoverian. Sweden, Isle of Gotland
Silurian, Ludlovian. Czech Republic, Bohemia
Silurian, Llandovery, Much Wenlock Limestone Formation. United Kingdom

Myelodactylus canaliculatus (Goldfuss, 1831). Sievert-Doreck, 1953, p. 76, Pl. 4, figs. 1-3. Sievert-Doreck, 1954, p. 46, Figs. 1-4. Webster, 1973, p. 179, 303. Ubaghs *in* Moore and Teichert, 1978, p. T78, Fig. 57, no. 5. Le Menn, 1985, p. 77, Pl. 11, figs. 7-10. Webster, 1986, p. 368. Le Menn, 1987b, p. 821, Pl. 2, figs. 11-12. Webster, 1988, p. 199. Gluchowski, 1993a, p. 44, Fig. 5, no. J. Webster, 1993, p.
174. Hauser, 2001, Pl. 23, fig. 3.
Rhodocrinites canaliculatus Goldfuss, 1831, p. 199, Pl. 60, figs. 6a-6f. Bassler and Moodey, 1943, p. 663. Sieverts-Doreck, 1953, p. 76. Webster, 1973, p. 303.
Rhodocrinus canaliculatus (Goldfuss, 1831). Bronn, 1848, p. 362. Dujardin and Hupé, 1862, p. 125.
Cupressocrinus canaliculatus (Goldfuss, 1831). Bronn, 1848, p. 362.
Devonian, Eifelian - Givetian, Quelern Formation, Kerbelec Formation; Ubergangs Limestone. France, Armorican Massif; Germany
Devonian, Eifelian-Givetian boundary, Skaly Beds. Poland

Myelodactylus cf. *canaliculatus* (Goldfuss, 1826). Hauser, 1997, p. 107, Pl. 62, figs. 5-7. Hauser, 2001, Pl. 25, fig. 5.
Devonian, Eifelian, Freilingen Formation. Germany

Myelodactylus sp. aff. *M. canaliculatus* (Goldfuss, 1831). Hauser, 2008, Pl. 12, fig. 6.
Devonian, Eifelian. Germany

Myelodactylus chokusuensis Stukalina, 1994, p. 58, Pl. 9, figs. 1-3. Stukalina, 1995a, p. 77, Pl. 9, figs. 1-3.
Early Silurian, Chokusu Beds. Russia, Mongolia

**Myelodactylus convolutus* Hall, 1852. Brett, 1981b, p. 366, Fig. 8, no. E. Gluchowski, 1981a, p. 101, Fig. 3. Gluchowski, 1981b, p. 29, Pl. 1, fig. 2. Donovan, 1987a, p. 100, Fig. 3. Donovan and Franzén-Bengtson, 1988, p. 70. Webster, 1988, p. 200. Donovan and Sevastopulo, 1989, p. 696, Pl. 80, fig. 10, Fig. 2, no. A. Webster, 1993, p. 174. Donovan and Lewis, 2005, p. 344, Figs. 1, nos. A-C; 2, Donovan et al., 2009, p. 11, Pl. 1, figs. 1-7; Fig. 2, no. A.

Silurian, Niagaran, Rochester Shale; Wenlockian. United States, New York; Poland; Sweden, Isle of Gotland

Myelodactylus cf. *convolutus* Yeltyschewa, 1960 = *Myelodactylus flexibilis*

Myelodactylus dicirrocrinus (Ehrenberg, 1930) = *Dicirrocrinus*? *Dicirrocrinus*

Myelodactylus flexibilis Stukalina, 1982b, p. 146, Pl. 22, figs. 1-7; Figs. 28, nos. a-b; 30, nos. a-g. Stukalina, 1986, p. 126, Pl. 1, figs. 18-21. Stukalina, 1988c, p. 43, Pl. 9, figs. 1-4; Fig. 27, no. 1. Webster, 1988, p. 200. Webster, 1993, p. 174. Stukalina, 2000, p. 20, Pl. 1, figs. 1-2; Fig. 2, no. 1.

Herpetocrinus sp. Yeltyschewa, 1955a, p. 42, Pl. 54, fig. 7. Webster, 1973, p. 296. Stukalina, 1982b, p. 146 (incorrectly listed as *Herpetocystis* sp). Webster, 1988, p. 200.

Myelodactylus sp. Yeltyschewa, 1960, p. 6, Pl. 5, fig. 8. Webster, 1973, p. 303. Stukalina, 1982b, p. 146. Webster, 1988, p. 200.

Myelodactylus cf. *convolutus* Hall, 1852. Yeltyschewa, 1960, p. 5, Pl. 5, figs. 9-10. Webster, 1973, p. 303. Stukalina, 1982b, p. 146. Webster, 1988, p. 200.

Early Silurian, Llandoverian-Wenlockian, Khaastyr Horizon, Ugiyuk Suite; upper part of Agidyiskogo Horizon, upper part of Omnutakhskoi Suite. Russia, Siberian Platform, Ural Mountains

Early Silurian, upper part of Agidyiskogo Horizon, upper part of Omnutakhskoi Suite. Russia, Siberian Platform

Myelodactylus parvispinifer (Brower, 1975). Donovan and Sevastopulo, 1989, p. 702, Pl. 82, fig. 2; Fig. 2, no. C. Webster, 1993, p. 174.

Silurian, Llandoverian, Gutterford Burn Starfish Beds. United Kingdom, Scotland

Myelodactylus penkillensis Donovan and Sevastopulo, 1989, p. 707, Figs. 7-8. Webster, 1993, p. 174. Donovan, 2009, p. 21, Pl. 4, figs. 11-13, 19, 25, 26; Fig. 8.

Myelodactylus sp. Nicholson and Etheridge, 1880. Donovan and Sevastopulo, 1989, p. 707. Webster, 1993, p. 174.

Myelodactylus sp. Ramsbottom, 1954. Donovan and Sevastopulo, 1989, p. 707. Webster, 1993, p. 174.

Silurian, Llandoverian, Penkill Flags. United Kingdom

Myelodactylus? rimalis Dubatolova, 1971, p. 16, Pl. 1, figs. 1-4; Fig. 1. Webster, 1977, p. 208.

Early Silurian, Khaastyrsky Horizon, Ugiyuokskaya Suite. Russia, Siberian Platform

Early Devonian, Malobachat Horizon. Russia, Salair

Myelodactylus rimatus Stukalina, 1988c, p. 61, Pl. 9, figs. 5-7 (*nomen nudum*), no description. Webster, 1993, p. 174. Stukalina, 2000, p. 22, Pls. 2, figs. 1-3; 17, fig. 1; 21, fig. 1, Fig. 2, no. 2.

Early Silurian, Khakom Horizon. Russia, Siberian Platform

Myelodactylus spatulatus Le Menn, 1987a, p. 222, Pls. 1, figs. 5, 7; 2, figs. 3-7, 10. Webster, 1993, p. 174. Prokop, 2002b, p. 65, Pl. 1, figs. a-h.
Devonian, Zlichovian, Zlichov Limestone. Czech Republic
Devonian, late Lochkovian (Gedinnian) – Pragian (Siegenian), Saint-Cenere Formation. France

Myelodactylus sp. A Donovan and Sevastopulo, 1989, p. 707, Fig. 9. Webster, 1993, p. 175.
Silurian, Wenlockian. United Kingdom

Myelodactylus ? sp. 1 Yeltyschewa, 1982, p. 169, Pl. 1, fig. 1. Webster, 1988, p. 200.
Silurian, Llandoverian. Russia, Tuva

Myelodactylus ? sp. 2 Yeltyschewa, 1982, p. 170, Pl. 1, fig. 2. Webster, 1988, p. 200.
Early Silurian. Russia, Tuva

Myelodactylus spp.
Moore, 1939b, p. 195, Fig. 6, no. 8.
Silurian
Myelodacylus sp. Moore, 1939b, p. 195, Fig. 6, no. 7 (sic).
Devonian
Lowenstam, 1948, Pl. 6, fig. 7.
Silurian, Niagaran, Blue Island Zone. United States, Illinois
Sieverts-Doreck, 1953, p. 78, Pl. 4, figs. 4-6. Webster, 1973, p. 303.
Devonian. Germany
Termier, H. and Termier, G., 1974, p. 28, Pl. 2, figs. 1-2. Webster, 1986, p. 369.
Devonian, Eifelian. Morocco
Yeltyschewa, 1975, p. 125, Pl. 1, fig. 9. Webster, 1986, p. 369.
Silurian, Wenlockian, Kitaigorod Horizon, Demshin Layer. Russia, Podolia
Le Menn, 1980, p. 259, Pl. 36, fig. 5. Webster, 1986, p. 369.
Devonian,Pragian (early Siegenian), Shales and Limestone of Armorique. France,
Amorican Massif
Gluchowski, 1981b, p. 30, Pl. 1, fig. 3. Webster, 1988, p. 200.
Devonian, Givetian, Skaly Beds. Poland
Le Menn, 1985, p. 78, Pl. 12, fig. 1. Webster, 1988, p. 200.
Devonian, Pragian (early Siegenian), l'Armorique Schistes. France, Armorican Massif
Milicina, 1985, p. 46, Pl. III, fig. 1. Webster, 1988, p. 200.
Silurian, Llandoverian, lower part of Perseiskoi Suite. Russia, Nova Zemlya
Donovan, 1989e, p. 33, Fig. 12. Webster, 1993, p. 174.
Silurian. Sweden, Isle of Gotland
Donovan, 1991c, p. 33, Fig. 12.
Silurian. Sweden, Isle of Gotland
Hotchkiss, Prokop, and Petr, 1999, p. 330, Fig. 2, no. 20.
Early Devonian, Trebotov Limestone. Czech Republic
Seilacher and MacClintock, 2005, p. 231, Fig. 8, nos. D-E.
Middle Silurian. United States, New York, Tennessee

Donovan et al., 2009, p. 22, Pl. 4, figs. 10a-10b.
Silurian, Llandovery. United Kingdom

Myelodactylus sp. Nicholson and Etheridge, 1880 = *Myelodactylus penkillensis*

Myelodactylus sp. Ramsbottom, 1954 = *Myelodactylus penkillensis*

Myelodactylus sp. Yeltyschewa, 1960 = *Myelodactylus flexibilis*

Myelodactylus sp. indet. Schewtschenko, 1971, p. 4, Pl. 1, fig. 1; Fig. 1. Webster, 1977, p. 208.
Silurian, Middle Llandoverian. Tadzhikstan, Zeravshan-Gissar Mountain Region

?Myelodactylus sp.
Branisa, 1965, Pl. 23, fig. 14. Webster, 1977, p. 208.
Late Silurian, Cordillera Real Formation. Bolivia
Ausich, 1986c, p. 723, Figs. 2, no. 4; 3. Webster, 1993, p. 175.
Silurian, late early or middle Llandoverian, Brassfield Limestone. United States, Ohio

Myelodactylus sp. (or sps.?) ind. Nicholson and Etheridge, 1880, p. 333, Pl. 21, figs. 11-12.
Silurian. United Kingdom

Myelodacylus sp. Moore, 1939 = *Myelodactylus* spp.

MYRTILLOCRINUS Sandberger and Sandberger, 1856.
Devonian, Eifelian. Europe; Russia; United States

Myrtillocrinus anchor Abel, 1920, p. 252, Fig. 387 (holdfast of *Ancyrocrinus*, GDW).
Devonian. united States

Myrtillocrinus cf. *elongatus* Sandberger and Sandberger, 1856. Dubatolova, 1967, p. 33, Pl. 6, figs. 1-2. Webster, 1973, p. 303.
Devonian, late Eifelian-Givetian. Russia, Tas-Hayahtah Mountain

Myrtillocrinus sp. Abel, 1924, p. 265, Fig. 387.
Devonian. United States

NEOCAMPTOCRINUS Willink, 1980.
Stukalina, 1990, p. 136.
Recognized number of named columnal species: 12 Permian species, 5 Artinskian, 1 Kungurian – Wordian, 1 Capitanian - Wuchiapingian, 2 Early Permian, 1 Lopingian, 2 Late Permian
Permian, Artinskian. Australia
Early – Late Permian. Russia

Neocamptocrinus arcticus (Yakovlev *in* Yeltyschewa, 1970). Stukalina, 1990, p. 142, Pl. 16, fig. 11; Fig. 15, no. z. Biakov, 2007, p. 170, Pl. 4, fig. 5.
Stomiocrinus? arcticus Yakovlev *in* Yeltyschewa, 1970, p. 185, Pl. 101, fig. 6. Webster, 1977, p. 222. Stukalina, 1990, p. 142.
Permian, Lopingian, middle part of Neryuchin Suite, Khivach Horizon; Kulin Suite. Russia, Far East, Northeastern Okhotsk Region

Neocamptocrinus? banksi Willink, 1980a, p. 32, Pl. 4, figs. 11-13; Fig. 9, no. F. Webster, 1986, p. 369.
Permian, early Artinskian. Australia, Tasmania

Neocamptocrinus? bernacchiensis Willink, 1980a, p. 32, Pl. 4, figs. 8-10; Fig. 9, no. E. Webster, 1986, p. 369.
Permian, early Artinskian. Australia, Tasmania

Neocamptocrinus? doreckae Willink, 1980a, p. 32, Pl. 4, figs. 4-7; Fig. 9, no. D. Webster, 1986, p. 369.
Permian, early Artinskian. Australia, Tasmania

Neocamptocrinus groschini (Skoropisceva, 1969). Stukalina, 1990, p. 140, Pl. 17, figs. 1-7; Fig. 15, nos. d-e.
Stomiocrinus groschini Skoropisceva, 1969, p. 30, Pl. 2, fig. 4. Webster, 1977, p. 222. Stukalina, 1990, p. 140.
Late Permian, Sulandzhin Suite, Gizhigin Horizon. Russia, Far East, Northern Verkhoyane

Neocamptocrinus kolymaensis (Yeltyschewa *in* Skoropisceva, 1969). Stukalina, 1990, p. 140, Pl. 16, figs. 8-9; Fig. 15, no. g. Kurilenko *in* Kurilenko et al., 2002, p. 310, Pl. 105, fig. 7.
Late Permian, middle part of Gizhigin Horizon; lower part of Soktuska Sute, Togotuska Suite. Russia, Far East Transbaikal

Neocamptocrinus magnus Stukalina, 1990, p. 141, Pl. 16, fig. 10; Fig. 15, no. zh. Biakov, 2007, p. 170, Pl. 3, fig. 18.
Late Permian, Osnovanie Neryuchin Suite, Gizhigin and Khivach Horizons. Russia, Far East
Permian, Capitanian – Wuchiapingian, Osnovanie Neryuchin Suite, Gizhigin and Khivach Horizons. Russia, Northeastern Okhotsk Region

Neocamptocrinus rarus (Skoropisceva, 1969). Stukalina, 1990, p. 137, Pl. 16, figs. 1, 2; Fig. 15, no. a. Kurilenko *in* Kurilenko et al., 2002, p. 311, Pl. 105, figs. 1-6.
Stomiocrinus rarus Skoropisceva, 1969, p. 33, Pl. 1, figs. 1a-1b. Stukalina, 1973, p. 29, Pl. 2, figs. 6-10. Webster, 1977, p. 222. Stukalina, 1986, p. 139, Pl. 26, figs. 9-13. Stukalina, 1988c, p. 64, Pl. 13, figs. 17-18. Stukalina, 1990, p. 137. Webster, 1993, p. 194.
Early Permian, Verkhoyan Suite, Dzhigdalin Horizon; Zhipkhoshinsky Horizon. Russia, Far East, Verkhoyane, Zabaikale, Far East Transbaikal

Neocamptocrinus rudicostatus Stukalina, 1990, p. 139, Pl. 16, figs. 3-7; Fig. 15, no. v. Kurilenko *in* Kurilenko et al., 2002, p. 311, Pl. 105, fig. 8. Biakov, 2007, p. 168, Pl. 1, figs. 7-8.
Permian, Kungurian – Wordian, Kalali, Verkhi Dzhigdalin Horizon - Nizy Omolon Horizon, Tas Suite, and Olyn Horizon. Russia, Far Eat Transbaikal; Northern Okhotsk Region

Neocamptocrinus? sievertsae Willink, 1980a, p. 31, Pls. 3, figs. 24-25; 4, figs. 1-3; Fig. 9, no. C. Webster, 1986, p. 369.
Camptocrinus? tasmaniensis Sieverts-Doreck, 1942, p. 255, Fig. 3 only. Webster, 1973, p. 281. Willink, 1980z, p. 31. Webster, 1986, p. 369.
Permian, early Artinskian. Australia, Tasmania

Neocamptocrinus? tasmaniensis (Sieverts-Doreck, 1942). Willink, 1980a, p. 28, Pl. 3, figs. 9-23; Fig. 9, no. A. Webster, 1986, p. 369.
Camptocrinus? tasmaniensis Sieverts-Doreck, 1942, p. 255, Fig. 1, nos. a-b, d-e only. Webster, 1973, p. 281. Willink, 1980a, p. 28. Webster, 1986, p. 369.
Permian, early Artinskian. Australia, Tasmania

Neocamptocrinus? sp. cf. *N.? tasmaniensis* (Sieverts-Doreck, 1942). Willink, 1980a, p. 31, Pl. 4, figs. 14-16; Fig. 9, no. B. Webster, 1986, p. 369.
Permian, early Artinskian. Australia, Tasmania

Neocamptocrinus verchoyanicus (Skoropisceva, 1969). Stukalina, 1990, p. 138, Fig. 15, no. b.
Stomiocrinus verchoyanicus Skoropisceva, 1969, p. 33, Pl. 1, figs. 4-6. Webster, 1977, p. 222. Stukalina, 1990, p. 138.
Early Permian, Byrrang Horizon. Russia, Far East, Verkhoyane

Neocamptocrinus sp. Webster and Jell, 1992, p. 322, Fig. 3, nos. M-N.
Permian, late Artinskian?, Wandagee Formation. Australia, Western Australia, Carnarvon Basin

NIMIOCRINUS Stukalina, 1975. **N. nimius* Stukalina, 1975.
Stukalina *in* Levitskiy *et al.*, 1968, p. 72 (*nomen nudum*). Stukalina, 1975, p. 146. Jeffords *in* Moore and Teichert, 1978, p. T936. Webster, 1986, p. 80, 102, Fig. 31, no. 3. Webster, 1988, p. 369. Webster, 1993, p. 175.
Recognized number of named columnal species: 1 Early Devonian species
Early Devonian. Kazakhstan

**Nimiocrinus nimius* Stukalina, 1975, p. 146, Pl. 36, figs. 6-7. Webster, 1986, p. 370. Stukalina, 1991, p. 198, Fig. 19, nos. d-e.
Early Devonian, Kokbaital (Karaspin) Horizon. Kazakhstan

NIPTEROCRINUS Wachsmuth *in* Meek and Worthen, 1868.
Haude, 1981, p. 188, Fig. 2, middle.

Mississippian: North America

NIRUNDACRINUS Stukalina, 1979. **N. nirundensis* Stukalina, 1979.
Stukalina, 1979a, p. 151. Stukalina, 1986, p. 81. Webster, 1986, p. 370. Stukalina, 1988c, p. 48, Fig. 30, no. 4. Webster, 1993, p. 175.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Russia, Siberian Platform

**Nirunacrinus nirundaensis* Stukalina, 1979a, p. 151, Pl. 31, figs. 17-18; Fig. 32, no. d (not Pl. 31, figs. 15-16 as given p. 151). Webster, 1986, p. 370.
Ordovician, Sandbian upper part of Mangazei Horizon, Baksan Subhorizon. Russia, Siberian Platform

NOCTUICRINUS Le Menn, 1985. **N. chrankensis* Le Menn, 1985.
Le Menn, 1985, p. 174. Le Menn, 1987a, p. 231. Webster, 1988, p. 200. Webster, 1993, p. 175.
Recognized number of named columnal species: 2 Devonian species, 1 Lochkovian – Pragian, 1 Givetian
Devonian, Lochkovian - Pragian. France
Devonian, Givetian. Poland

**Noctuicrinus chrankensis* Le Menn, 1985, p. 174, Pl. 39, figs. 18-29; Fig. 72. Le Menn, 1987b, Pl. 2, fig. 6. Webster, 1988, p. 200. Webster, 1993, p. 175.
Devonian, late Emsian, Beg an Arreun Formation, Marettes Formation. France, Armorican Massif

Noctuicrinus simplex Le Menn, 1987a, p. 232, Pl. 2, figs. 8-9. Le Menn, 1987b, Pl. 2, fig.
6. Webster, 1993, p. 175.
Devonian, Lochkovian (late Gedinnian) – Pragian (Siegenian), Saint-Cenere Formation. France

Noctuicrinus? varius Gluchowski, 1993a, p. 64, 75, Fig. 13, nos. A-D.
Devonian, Givetian, *Stringocephalus* Beds. Poland

NOTHROSTERIGMA Moore and Jeffords, 1968. **N. merum* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 83. Webster, 1973, p. 303. Jeffords *in* Moore and Teichert, 1978, p. T934.
Recognized number of named columnal species: 1 Pennsylvanian, Virgilian species
Pennsylvanian, Virgilian. United States

**Nothrosterigma merum* Moore and Jeffords, 1968, p. 84, Pl. 27, fig. 13. Webster, 1973, p. 303.
Pennsylvanian, Virgilian, Chaffin Limestone. United States, Texas

NOTOCRINUS Stukalina, 1969. *Nomen nudum*
Stukalina, 1969, p. 206. Jeffords *in* Moore and Teichert, 1978, p. T936.

Notocrinus notus Stukalina, 1969, p. 206 (*nomen nudum*).

NURACRINUS Stukalina, 1991. **N. longilobatus* Stukalina, 1991, OD.
Stukalina, 1991, p. 182.
Recognized number of named columnal species: 1 Early Devonian species
Early Devonian, Pribalkhash Horizon. Kazakhstan

**Nuracrinus longilobatus* Stukalina, 1991, p. 182, Pl. 43, figs. 10-11; Fig. 15, no. i.
Early Devonian, Pribalkhash Horizon. Kazakhstan

OANDUCYSTIS Stukalina *in* Stukalina and Hints, 1979. **O. excisus* Stukalina *in* Stukalina and Hints, 1979.
Stukalina *in* Stukalina and Hints, 1979, p. 3, Fig. 3. (may be a cystoid columnal).
Donovan, 1995b, p. 123.
Recognized number of named columnal species: 3 Ordovician species, 1 Darriwilian,
, 1 Sandbian, 1 Katian
Ordovician, Darriwilian. Estonia
Ordovician, Sandbian. Kazakhstan
Ordovician, Katian. United Kingdom

Oanducystis crispangulatus Donovan, 1995b, p. 123, Pl. 17, figs. 1-2, 4.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

**Oanducystis excisus* Stukalina *in* Stukalina and Hints, 1979, p. 4, Pl. 1, Figs. 2-6.
Ordovician, Darriwilian, Keila Horizon; Oandu Horizon. Estonia

Oanducystis levis Stukalina, 1985a, p. 179, Pl. 1, figs. 1-3.
Ordovician, Sandbian. Kazakhstan

Oanducystis sp. A Donovan, 1995b, p. 126, Pl. 16, figs. 8-9, 11.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Oanducystis sp. B Donovan, 1995b, p. 126, Pl. 16, figs. 1-7, 10.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Oanducystis sp. C Donovan, 1995b, p. 127, Pl. 17, figs. 5, 7.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

OBUTICRINUS Yeltyschewa and Stukalina, 1963 = ***BYSTROWICRINUS***

Obuticrinus bilobatus (Yeltyschewa, 1960) = *Bystrowicrinus bilobatus*

Obuticrinus bullosus Yeltyschewa and Stukalina, 1963 = *Bystrowicrinus bullosus*

Obuticrinus egiasarowi (Yeltyschewa, 1960) = *Bystrowicrinus egiasarowi* = *Egiasorowicrinus egiasarowi*

Obuticrinus indissimilis (Schewtschenko, 1964) = *Bystrowicrinus bilobatus*

OEHLERTICRINUS Le Menn, 1975. **O. seillouensis* Le Menn, 1975.
Recognized number of named columnal species: 1 Pragian species
Devonian. Pragian. France

Oehlerticrinus sculptus Le Menn, 1975. Le Menn, 1980, p. 255. Webster, 1986, p. 370.
Devonian, Pragian (early Siegenian), Shales and Limestones of Armorique. France, Amorican Massif

OLDOJICRINUS Kurilenko and Stukalina, 2002. **Pentagonocyclicus oldoicus* Yeltyschewa and Dubatolova, 1960.
Kurilenko and Stukalina *in* Kurilenko, et al., 2002, p. 169.
Recognized number of named columnal species: 1 Devonian, Givetian – Frasnian species
Devonian, Givetian - Frasnian. Russia, Upper Priamur

**Oldojicrinus oldoicus* (Yeltyschewa and Dubatolova, 1960). Kurilenko and Stukalina *in* Kurilenko, et al., 2002, p. 169, Pl. 62, figs. 11, 14-16.
Pentagonocyclicus oldoicus Yeltyschewa and Dubatolova, 1960, p. 371, Pl. 70, fig. 6a. Yeltyschewa and Dubatolova, 1967, p. 53, Pl. 6, figs. 4-8. Modzalevskaya, 1967, Pl. 6, fig. 24. Yeltyschewa, 1969, p. 163, Pl. 59, fig. 7. Webster, 1973, p. 309. Webster, 1977, p. 213. Dubatolova, 1988, p. 77, Pl. 17, figs. 15-16, Fig. p. 68, no. s. Webster, 1993, p. 179. Kurilenko and Stukalina *in* Kurilenko, et al., 2002, p. 169.
Oldojicrinus oldoicus(Yeltyschewa and Dubatolova, 1960). Kurilenko and Stukalina *in* Kurilenko, et al., 2002, p. 169.
Devonian, Givetian-early Frasnian, Oldoi Suite; Ilin Suite; upper part of Beloubin Suite. Russia, Upper Amur Basin, Altai Mountains, Far East Transbaikal

ONONICRINUS Kurilenko, 1997. * *Pentagonoepntagonalis floreus* var. *gracila* Dubalova and Yeltyschewa, 1961.
Kurilenko *in* Kurilenko et al., 2002, p. 154. (**Note**. see comments on the species below, as *Ononicrinus* is a junior synonym of *Wanakastaurus delicatus* if the two genera are the same . GDW
Recognized number of named columnal species: 2 Devonian species, 1 Early – Middle Devonian, 1 Frasnian
Early – Middle Devonian. Kazakhstan; Russia, Far East
Devonian, Givetian. Russia, Transbaikal

Ononicrinus delicatus (Moore and Jeffords, 1968). Kurilenko *in* Kurilenko et al., 2002, p. 155, Pl. 67, figs. 17-19.
Wanakastaurus delicatus Moore and Jeffords, 1968 (part). Kurilenko *in* Kurilenko et

al., 2002, p. 155. (**Note**. *Wanakastaurus delicatus* Moore and Jeffords, 1968 is the type species of the genus. It would have precedence over *Ononicrinus* and *Ononicrinus* would be a junior synonym of *Wanakastaurus*. GDW)

Devonian, early Frasnian. Russia, Far East transbaikal

**Ononicrinus gracilis*(Yeltyschewa and Dubatolova, 1961). Kurilenko *in* Kurilenko et al., 2002, p. 154, Pls. 62, figs. 5-9; 64, figs. 1-10. Kurilenko and Kulkov, 2008, p. 466,

Fig. 4, nos. B-D, I.

Pentagonopentagonalis floreus var. *gracila* Dubalova and Yeltyschewa, 1961, p. 558, Pl. D-87, figs. 10-11. Yeltyschewa and Dubatolova, 1967, p. 38. Webster, 1973, p. 278. Kurilenko *in* Kurilenko et al., 2002, p. 154.

Anthinocrinus floreus gracilis (Yeltyschewa and Dubatolova, 1961). Yeltyschewa and

Dubatolova, 1967, p. 38, Pl. 4, fig. 15. Webster, 1973, p. 278. Kurilenko *in* Kurilenko et al., 2002, p. 154.

Anthinocrinus floreus Sisova, 1960, p. 53 (*nomen nudum*). Yeltyschewa *in* Yeltyschewa and Dubatolova, 1967, p. 37, Pl. 4, figs. 7-8; Fig. 16. Modzalevskaya, 1967, p. 546, Pl. 4, figs. 18-19. Yeltyschewa, 1969, p. 159, Pl. 41, figs. 9-10 (not Pl. 12 as given p. 159). Dubatolova, 1971, p. 34, Pl. 3, figs. 3-10; Fig. 8. Yeltyschewa and Sisova, 1973, p. 89, Pl. 1, figs. 1-4; Fig. 2. Webster, 1973, p. 278. Milicina, 1977a, p. 142, Pls. 58, fig. 7; 59, fig. 2. Webster, 1977, p. 185. Dubatolova, 1984, p. 113, Pl. 13, figs. 5-6; Fig. 3. Webster, 1986, p. 327. Webster, 1988, p. 170. Kurilenko *in* Kurilenko et al., 2002, p. 154.

Facetocrinus quinqueangularis Racki et al., 1985. Kurilenko *in* Kurilenko et al., 2002,

p. 154.

Floricrinus gracilis (Yeltyschewa and Dubatolova, 1961). Stukalina, 1998, p. 18, Fig. 2, no. 2.

Floricrinus floreus (Yeltyschewa and Dubatolova, 1967). Stukalina, 1978c, p. 56, Pls. 13, fig. 12; 14, figs. 3-4. Stukalina, 1986, p. 69, Pl. 15, fig. 21; Tab. 5. Webster,

1986, p. 354. Stukalina, 1988c, p. 63, Pl. 11, fig. 13; Fig. 31. Schewtschenko, 1989, p. 87, Pl. 1, fig. 19; Fig. 2, no. B. Stukalina, 1991, p. 174, Fig. 14, no. d. Gluchowski, 1993a, p. 50, Fig. 8, no. J. Webster, 1993, p. 158. Stukalina, 1998, p. 18, Fig. 2, no. 1.

Floricrinus floreus gracilis (Yeltyschewa and Dubatolova, 1961). Kurilenko *in* Kurilenko et al., 2002, p. 154.

Wanakastaurus delicatus Moore and Jeffords, 1968 (part). Kurilenko *in* Kurilenko et al., 2002, p. 154. (**Note**. *Wanakastaurus delicatus* Moore and Jeffords, 1968 is the type species of *Wanakastaurus*. It has precedence over *Ononicrinus* and *Ononicrinus* is a junior synonym of *Wanakastaurus ifKurilenko is correct in that the two species are indeed one*. GDW)

Devonian, Givetian, Oldoy Horizon. Russia, Altai Mountains, Upper Priamur Far East

Transbaikal

Early - Middle Devonian, Jmatchinskian Suite; Vecherninskaya Suite, Vizhaich Horizon, Toshem Horizon; Sardzhal Horizon; Pribalkhash, Horizon; Kazakh Horizon; upper part of Bolshenerversian Suite. Russia, Kazakhstan, Tien Shan, Zeravshan Mountains, Omulev Mountains, Upper Amur Basin, Far East, Altai Mountains, Pribalkhash
Devonian, Givetian - Frasnian, Laskowa Gora Beds, lower part of Wietrznia Beds. Poland

ONYCHOCRINUS Lyon and Casseday, 1860.
Haude, 1981, p. 188, Fig. 1, no. e.
MississippiN. Europe; United States

Onychophora? Rhebergen, 1990 = Pelmatozoan pluricolumnal indet.

ORDINARICRINUS Stukalina, 1980. **O. ordinarius* Stukalina, 1980.
Stukalina, 1980d, p. 241. Stukalina, 1986, p. 57. Webster, 1986, p. 370. Webster, 1993, p. 175.
Recognized number of named columnal species: 1Ordovician, Sandbian species
Ordovician, Sandbian. Kazakhstan

**Ordinaricrinus ordinarius* Stukalina, 1980d, p. 241, Pl. 2, fig. 18. Webster, 1986, p. 370. Stukalina, 1988c, p. 65, Pl. 13, fig. 24. Webster, 1993, p. 175.
Ordovician, Sandbian, Anderken Horizon. Kazakhstan

Organe de fixation de Crinoide indetermine Le Menn, 1976, p. 281, Pl. 53, fig. 9. Webster, 1986, p. 399.
Early Devonian, Saint-Céneré Formation. France

OROCRINUS Sieverts-Doreck, 1951. **O. hercynicus* Sieverts-Doreck, 1951.
Sieverts-Doreck, 1951a, p. 119. Arendt and Pavlova, 1969, p. 95. Arendt and Pavlova, 1970, p. 231. Webster, 1973, p. 186. Webster, 1977, p. 208. Jeffords *in* Moore and Teichert, 1978, p. T934.
Recognized number of named columnal species: 7 species. 5Mississippian, 4 tournaisian, 1 Tournaisian – Viséan; 1 Late Mississippian – Pennsylvanian; 1 Permian, Artinskian
Mississippian. Tournaisian, Germany
Mississippian, Tournaisian – Viséan. United States
Permian, Artinskian. Russia

Orocrinus granulosus Sieverts-Doreck, 1951a, p. 129, Fig. 5. Arendt and Pavlova, 1969, p. 95. Arendt and Pavlova, 1970, p. 233. Webster, 1973, p. 186. Webster, 1977, p. 208.
Mississippian, Tournaisian, Erdbecker Limestone. Germany

Orocrinus grundensis Sieverts-Doreck, 1951a, p. 127, Pl. 9, figs. 1-2, 4. Webster, 1973, p. 186.

Woodocrinus? sp. indt. Schmidt, W. E., 1934, Fig. 11, nos. b-b_1. Sieverts-Doreck, 1951a, p. 127. Webster, 1973, p. 186. Lane, Maples, and Waters, 2001b, p. 247.
Mississippian, Tournaisian, Erdbecker Limestone. Germany

**Orocrinus hercynicus* Sieverts-Doreck, 1951a, p. 124, Pl. 8, figs. 1-7; Fig. 1. Arendt and Pavlova, 1969, p. 95. Arendt and Pavlova, 1970, p. 232. Webster, 1973, p. 186. Webster, 1977, p. 209. Jeffords *in* Moore and Teichert, 1978, p. T934. Lane,
Maples, and Waters, 2002b, p. 247, Fig. 8.
Woodocrinus? sp. indet. Schmidt, W. E., 1934, Fig. 11, no. a. Sieverts-Doreck, 1951, p. 126. Webster, 1973, p. 186.
Mississippian, Tournaisian, Erdbecker Limestone. Germany

Orocrinus parvus (Shumard, 1855) (*non* Rowley, 1906).
Actinocrinus parvus Shumard, 1855, p. 193, Pl. 1, fig. 9. Weller, 1898c, p. 90. Bassler and Moodey, 1943, p. 305. Kirk, 1946e, p. 659. Webster, 1973, p. 112.
Aorocrinus parvus (Shumard, 1855). Wachsmuth and Springer, 1897, p. 455, Pl. 45, figs. 11a-11b. Weller, 1898c, p. 91. Grabau and Shimer, 1910, p. 546. Bassler and Moodey, 1943, p. 305. Moore and Laudon, 1944, p. 195, Pl. 76, fig. 11. Laudon, 1948, Pl. 2. Haugh, 1978, p. 164, Fig. 16, no. D. Webster, 1973, p. 54. Webster, 1986, p. 62.
Dizygocrinus parvus (Shumard, 1855) (*non* Rowley, 1906). Kirk, 1946e, p. 659. Webster, 1973, p. 112.
Dorycrinus amoenus Miller, S. A., 1891b, p. 35, Pl. 3, figs. 5-6. Bassler and Moodey, 1943, p. 305.
Mississippian, Tournaisian - Viséan (Kinderhookian – Meramecian), Chouteau Limestone; lower and upper parts of Burlington Limestone; St. Louis Limestone. United States, Iowa, Missouri, Illinois

Orocrinus uralicus Arendt and Pavlova, 1969, p. 96, Pl. 12, figs. 1-15; Fig. 1. Arendt and
Pavlova, 1970, p. 233, Pl. 12, figs. 1-15; Fig. 1. Webster, 1977, p. 209.
Permian, Artinskian, Sarga Horizon. Russia, Urals

Orocrinus verchoianicus Arendt and Pavlova, 1969, p. 97, Pl. 12, fig. 16. Arendt and Pavlova, 1970, p. 236, Pl. 12, fig. 16. Webster, 1977, p. 209.
Late Mississippian - Pennsylvanian. Russia, Southwestern Cis-Verkhoyan'ye

Orocrinus winterbergensis Sieverts-Doreck, 1951a, p. 126, Pls. 8, figs. 8-10; 9, fig. 3?. Arendt and Pavlova, 1969, p. 95. Arendt and Pavlova, 1970, p. 233. Webster, 1973, p. 186. Webster, 1977, p. 209.
Woodocrinus? sp. indet. Schmidt, W. E., 1934, Fig. 11, no. c. Sieverts-Doreck, 1951a, p. 124. Webster, 1973, p. 186.
Mississippian, Tournaisian, Erdbacker Limestone. Germany

Orocrinus? sp. A Sieverts-Doreck, 1951a, p. 130, Pl. 9, figs. 6-7; Fig. 2. Webster, 1973, p. 186.

Mississippian, Tournaisian, Erdbacker Limestone. Germany

Orocrinus? sp. B Sieverts-Doreck, 1951a, p. 134. Webster, 1973, p. 186.
Mississippian, Erdbacker Limestone. Germany

ORYCTOCONUS Colchen and Ubaghs, 1970. **O. lobatus* Colchen and Ubaghs, 1970,
OD.
Classification uncertain, holdfasts, perhaps Eocrinoidea
Colchen and Ubaghs, 1970, p. 650. Webster, 1977, p. 120. Seilacher and MacClintock, 2005, p. 227.
Recognized number of named columnal species: 2species. 1 late Cambrian or Early Ordovician, 1 Early Ordovician
Late Cambrian or Early Ordovician. Spain
Early Ordovician. Germany

Oryctocrinus dorecki Seilacher and MacClintock, 2005, p. 227, Fig. 5, no. C.
Early Ordovician. Germany

**Oryctoconus lobatus* Colchen and Ubaghs, 1970, p. 650, Figs. 1-9. Webster, 1977, p. 120. Seilacher and MacClintock, 2005, p. 227, Fig. 5, nos. A—B, D.
Late Cambrian or Early Ordovician. Spain

OSTRAVACRINUS Grygar and Vasícek, 1983. **O. gaebler* Grygar and Vasícek, 1983.
Grygar and Vasícek, 1983, p. 274.
Recognized number of named columnal species: 1
Mississippian, Serpukhovian (Namurian). Czech Republic

**Ostravacrinus gaebler* Grygar and Vasícek, 1983, p. 274, Pl. 1, figs. 2a-2b; Fig. 3.
Mississippian, Serpukhovian (Namurian).. Czech Republic

OTARICRINUS Stukalina, 1980. **O. otaricus* Stukalina, 1980.
Stukalina, 1980b, p. 112. Stukalina, 1986, p. 57. Webster, 1986, p. 370. Webster, 1993, p. 175.
Recognized number of named columnal species: 1Ordovician, Sandbian species
Late Ordovician. Sandbian – Katian. Kazakhstan

**Otaricrinus otaricus* Stukalina, 1980b, p. 112, Pl. 23, figs. 12-14; Fig. 19, no. 7. Stukalina, 1986, p. 57, Pl. 10, figs. 3-5; Fig. 12, no. 6. Webster, 1986, p. 370. Webster, 1993, p. 175.
Late Ordovician, Sandbian – Katian, Dulankaren Horizon, Otar Layer; Anderken Horizon. Southern Kazakhstan

OTTAWACRINUS Billings, 1887

Ordovician, Katian (middle Champlainian). Canada

Ottawacrinus sp. Titus, 1979, p. 112, Figs. 7, no. 5; 8, no. 7. Webster, 1986, p. 370.

Ordovician, Katian (early Trentonian). United States, New York

OVALICRINUS Stukalina, 1997. (non Chen and Yao, 1993) **Pentagonocyclicus ellipticus* Stukalina, 1973.
Stukalina, 1997c, p. 41, Fig. 3 no. v. Stukalina, 1997d, p. 607, Fig. 3, no. c.
Recognized number of named columnal species: 1 Mississippian species
Mississippian. Mongolia

**Ovalicrinus ellipticus* (Stukalina, 1973).
Pentagonocyclicus ellipticus Stukalina, 1973, p. 49, Pl. 6, figs. 10-11. Webster, 1977, p. 211.
Mississippian. Mongolia

PACHYCRINITES Eichwald, 1840.
Eichwald, 1840, p. 78. Zittel, 1879, p. 351. Bassler and Moodey, 1943, p. 577. Jeffords *in* Moore and Teichert, 1978, p. T934.
PACHYCRINUS Eichwald, 1860, p. 584. Wachsmuth and Springer, 1880, p. 150 (373). Bather, 1900, p. 203. Bassler, 1938, p. 143. Bassler and Moodey, 1943, p. 577.
Recognized number of named columnal species: 3 species. 1 Carboniferous uncertain; 1 Mississippian uncertain; 1 Pennsylvanian, Moscovian species
Mississippian – Pennsylvanian, Moscovian. Russia
f
**Pachycrinites compressus* Eichwald, 1840, p. 78. Bassler, 1938, p. 142. Bassler and Moodey, 1943, p. 577.
Pachycrinus compressus (Eichwald, 1840). Eichwald, 1860, p. 584, Pl. 31, figs. 59a-59b. Bassler and Moodey, 1943, p. 577.
Mississippian. Russia

Pachycrinites notatus (Eichwald, 1860). Bassler and Moodey, 1943, p. 578.
Pachycrinus notatus Eichwald, 1860, p. 585, Pl. 31, figs. 52, 53a-53c. Bassler and Moodey, 1943, p. 578.
Pennsylvanian, Moscovian. Russia, Mjatschkowa

Pachycrinites planus Eichwald, 1840, p. 78. Bassler and Moodey, 1943, p. 578.
Carboniferous. Russia, Novogorod

PACHYCRINUS Eichwald, 1860 = ***PACHYCRINITES***

Pachycrinus compressus Eichwald, 1840 = **Pachycrinites compressus*

Pachycrinus notatus Eichwald, 1860 = *Pachycrinites notatus*

Palecocrinus? sp. Elias, 1957, p. 385, Pl. 41, figs. 6-7. Webster, 1973, p. 303.
Mississippian, Chesterian, Goddard Shale, Redoak Hollow Member. United States, Oklahoma

PALERMOCRINUS Jaekel, 1918.
Jaekel, 1918, p. 67. Gislen, 1924, p. 197. Bassler, 1938, p. 144. Bassler and Moodey, 1943, p. 586. Moore and Laudon, 1943b, p. 104. Branson, 1948, p. 203. Webster, 1973, p. 303. Jeffords *in* Moore and Teichert, 1978, p. T934.
Recognized number of named columnal species: 2 Permian species, 1 Wordian 1 Middle Permian
Permian, Wordian. Sicily, Tunisia
Middle Permain. Yugoslavia

**Palermocrinus jaekeli* Gislen, 1924, p. 197, Figs. 270-273. Yakovlev, 1934, p. 281, Pl. 20, figs. 5-14. Bassler, 1938, p. 144. Bassler and Moodey, 1943, p. 586. Branson, 1948, p. 203. Nicosia, 1954, p. 89, Figs. 1-2. Termier, H., and Termier, G., 1958, p. 55, Pl. 3, fig. g. Webster, 1973, p. 303. Termier, Termier, and Vachard, 1977, p. 95, Pl. 18, fig. 1. Webster, 1986, p. 370.
Permian, Wordian, Sosio Beds. Sicily; Southern Tunisia

Palermocrinus togatus Ramovs and Sieverts-Doreck, 1968, p. 196, Pl. 1, figs. 1-4; Fig. 2, nos. a-c.
Middle Permian, Trogkofel Stage. Yugoslavia

Pandoacrinus mincopensis (Ramsbottom, 1961) = *Pandocrinus mincopensis*

PANDOCRINUS Stukalina, 1965. **P. pandus* Stukalina, 1965.
Stukalina, 1965b, p. 138. Moore and Jeffords, 1968, p. 69. Webster, 1973, p. 303. Webster, 1977, p. 209. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 85. Webster, 1986, p. 371. Stukalina, 1993, p. 175.
URICOCRINUS Milicina, 1977. **U. uricoformis* Milicina, 1977a, p. 146. Stukalina, 1986, p. 85. Webster, 1986, p. 392. Webster, 1993, p. 176.
Recognized number of named columnal species: 11 species. 1 Ordovician, Darriwilian; 4 Silurian, 1 Wenlockian, 1 Wenlockian – Ludlovian, 1 Ludlovian, 1 Late Silurian uncertain; 1 Late Silurian – Early Devonian, Emsian; 4 Devonian, 1 Pragian, 1 Emsian, 2 Early Devonian, uncertain
Ordovician, Darriwilian. United Kingdom
Silurian, Wenlockian 0 Ludlovian. Mongolia
Silurian - Devonian. Russia
Laate Silurian – Early Devonian. Kazakhstan
Silurian. Czech Republic

Pandocrinus belchirensis Stukalina, 1994, p. 61, Pl. 9, figs. 6-9. Stukalina, 1995a, p. 80, Pl. 9, figs. 6-9.
Silurian, Wenlockian/Ludlovian boundary beds, Sukhe-Bator Horizon. Russia, Mongolia

Pandocrinus elegans Milicina, 2001a, p. 64, Pl. 8, figs. 7a-7b. Milicina, 2001b, p. 400, Pl. 8, figs. 7a-7b.
Silurian, Ludlovian, Is Horizon; late Wenlockian. Russia, East slope Ural Mountains

Pandocrinus fascilularis Stukalina, 1988c, p. 65, Pl. 13, figs. 22-23 (*nomen nudum*), no description. Webster, 1993, p. 176.

Note. Stukalina attributes authorship of the species to Stukalina (1985) in the plate explanation in Stukalina (1988c). I find no mention of *P. fascilularis* in her 1988 paper. It may be a misspelling of the listed species, *Fascicularicrinus fascicularis* Stukalina, 1985b, p. 52.

Late Silurian, Tokrau Horizon. Kazakhstan

Pandocrinus grandis Kurilenko, 2001, p. 46, Pl. 1, figs. 4-6; Fig. 2, no. v. Kurilenko *in* Kurilenko, et al., 2002, p. 166, Pl. 56, figs. 1-8. Kurilenko and Kulkov, 2008, p. 464, Fig. 3, no. B.

Devonian, Pragian, Ildikan Suite, Bolshoi Never Suite; Eifelian. Russia, Far East Transbaikal

Pandocrinus mincopensis Ramsbottom, 1961. Donovan, 1986d, p. 37, Fig. 15.

Pandoacrinus mincopensis (Ramsbottom, 1961). Webster, 1993, p. 176 (sic).

Ordovician, Darriwilian (early Llandeilian), Meadowtown Beds. United Kingdom

**Pandocrinus pandus* Stukalina, 1965b, p. 138, Pl. 1, figs. 18-20; Fig. 4. Stukalina, 1971, p. 196, Pl. 2, fig. 4. Webster, 1973, p. 303. Stukalina, 1975, p. 135, Pl. 36, fig. 10. Milicina, 1977a, p. 145, Pls. 56, figs. 4, 6-7; 58, figs. 1-3. Webster, 1977, p. 209. Webster, 1986, p. 371. Stukalina, 1988c, p. 61, Pl. 9, figs. 8-9. Stukalina, 1991, p. 200, Pl. 42, fig. 14. Webster, 1993, p. 176.

Early Devonian, Karaespin Horizon, Kokbaital Horizon. Kazakhstan, Tarbagat

Pandocrinus aff. *pandus* Stukalina, 1965. Dubatolova, 1968, p. 150, Pl. 15, figs. 11-13; Fig. 8. Webster, 1973, p. 304.

Devonian, Tom-Chum Horizon, lower part of Rekov Beds. Russia, Salair

Pandocrinus plicatus Stukalina, 1975, p. 148, Pl. 36, figs. 8-9. Stukalina, 1986, p. 33, Pl. 32, figs. 9-11; Fig. 13, no. 5. Webster, 1986, p. 371. Stukalina, 1988c, p. 61, Pl. 9, fig. 10; Fig. 25, no. 4. Stukalina, 1991, p. 201, Fig. 19, nos. i-m. Webster, 1993, p. 176.

Late Silurian - Early Devonian, Tokrau Horizon; Ainasui Horizon. Kazakhstan

Pandocrinus spinifer Milicina, 1973, p. 24, Pl. 4, figs. 7, 9; Fig. 6. Webster, 1993, p. 176.

Silurian, Wenlockian, Elkin Horizon. Russia, Middle Ural Mountains

Pandocrinus stoloniferus? (Hall, 1859). Moore and Jeffords, 1968, p. 69, Pls. 19, figs. 11-12; 20, figs. 1-3; 21, figs. 14-15. Webster, 1973, p. 304. Prokop and Petr, 1990, p. 46, 47. Webster, 1993, p. 176.

Mariacrinus stoloniferus Hall, 1859. Moore and Jeffords, 1968, p. 69. Webster, 1973, p. 304. Brett, 1981b, p. 344, Fig. 1, no. D. Webster, 1988, p. 197.

Encrinites st. ivanensis Barrande *in* Waagen and Jahn, 1899, p. 152, Pl. 76, case 1, figs. 4-25. Bassler and Moodey, 1943, p. 449. Prokop and Petr, 1990, p. 46, 47. Webster, 1993, p. 176.
Late Silurian - Devonian, Emsian (Helderbergian), New Scotland Limestone, Birdsong Shale. United States, New York, Tennessee
Silurian. Czech Republic, Bohemia

Pandocrinus uricoformis (Milicina, 1977).
Uricocrinus uricoformis Milicina, 1977a, p. 146, Pl. 56, figs. 1-3; Fig. 31. Webster, 1986, p. 393.
Early Devonian, Sarainin Horizon. Russia, Ural Mountains

Pandocrinus verrucosus Stukalina, 1994, p. 62, Pl. 9, figs. 10-13. Stukalina, 1995a, p. 81, Pl. 9, figs. 10-13.
Silurian, Wenlockian/Ludlovian boundary beds, Sukhe-Bator Horizon. Russia, Mongolia

PARACYCLOCAUDEX Le Menn, 1985. **Cyclocaudex eodevonicus* Le Menn, 1976. Le Menn, 1985, p. 168. Webster, 1988, p. 201. Ebert, 1944, p. 35.
Recognized number of named columnal species: 3 Devonian species, 1 Emsian, 1 Emsian – Eifelian, 1 Eifelian
Devonian, Emsian. France,
Devonian, Emsian - Eifelian. Germany

**Paracyclocaudex eodevonicus* (Le Menn, 1976). Le Menn, 1985, p. 170, Pl. 38, figs. 5-8, 10-11. Webster, 1988, p. 201.
Cyclocaudex eodevonicus Le Menn *in* Le Menn *et al.*, 1976, p. 52, Pl. 9, fig. 14. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 317. Le Menn, 1981, p. 266, Pl. 32, figs. 15-18. Le Menn, 1985, p. 170. Webster, 1986, p. 340. Webster, 1988, p. 201.
Early Devonian, Emsian, Shales and Graywackes of Reun ar C'Hrank; Montguyon Formation. France, Amorican Massif

Paracyclocaudex gluziauensis Le Menn, 1985, p. 169, Pl. 38, figs. 4, 9, 12, 17; Fig. 67. Webster, 1988, p. 201. Ebert, 1994, p. 37, Figs. 34, 64, no. a; 72-74.
Devonian, Eifelian, Quelern Formation. France, Armorican Massif
Devonian, Eifelian, Odershausen Formation; Ohle Formation: Germany

Paracyclocaudex lennensis Ebert, 1994, p. 35, Pl. 2, figs. 7-8; Figs. 32-33, 59, no. a; 71, 74.
Devonian, late Emsian - early Eifelian, *Orthocrinus* Formation, Stöppel Formation; upper part of *Speciosus* Formation; *Calceola* Formation. Germany

Paracyclocaudex sp. Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 331, Fig. 3, no. B.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia

PARADECACRINUS Stukalina and Schischkina, 1979. **Decacrinus orientalis* Yeltyschewa, 1957.
Stukalina and Schischkina, 1979, p. 164. Stukalina, 1986, p. 78. Webster, 1986, p. 371. Webster, 1988, p. 201. Webster, 1993, p. 176.
Recognized number of named columnal species: 3 Devonian species, 1 Pragian, 1 Pragian – Emsian, 1 Early Devoniana uncertain
Early Devonian. Russia

Paradecacrinus cf. *decemcrassus* (Dubatolova, 1971). Kurilenko *in* Kurilenko et al., 2002, p. 159, Pl. 58, fig. 6.
Devonian, Pragian. Russia, Verkhneamursky Region, Vostochnogo Zabaikal

**Paradecacrinus orientalis* (Yeltyschewa, 1957). Stukalina, 1978c, p. 60, Pl. 14, fig. 5. Stukalina, 1978d, p. 74, Unnum. Fig. p. 72. Stukalina and Schischkina, 1979, p. 164. Stukalina, 1982d, p. 140, Unnum. Fig. p. 141. Stukalina, 1986, p. 78, Tab. 5.
Webster,1986, p. 371. Stukalina, 1988c, p. Fig. 31. Webster, 1988, p. 201. Webster, 1993, p. 176. Kurilenko *in* Kurilenko et al., 2002, p. 159, Pl. 60, figs. 9-10. Kurilenko and Kulkov, 2008, p. 464, fig. 3, no. R.
Decacrinus orientalis Yeltyschewa, 1957, p. 221, Pl. 1, figs. 5-7, Fig. 2. Yeltyschewa and Dubatolova, 1967, p. 31, Pl. 4, figs. 11-14; Fig. 14. Modzalevskaya, 1967, p. 545, Pl. 3, fig. 8. Yeltyschewa, 1969, p. 156, Pl. 25, figs. 1-5. Dubatolova, 1971, p. 50, Pls. 4, figs. 17-20; 5, figs. 1; Fig. 19. Webster, 1973, p. 288. Webster, 1977, p. 196. Webster, 1986, p. 371.
Devonian, Pragian – Emsian, Ildican Suite, Bolshenever Suite. Russia, Upper Amur Basin, Altai Mountains, Eastern Zabaikal, Upper Priamur, Don River Basin Vostochnogo

Paradecacrinus tortuosus Stukalina, 1978c, p. 60, Pl. 14, fig. 10. Webster, 1986, p. 371. Stukalina, 1988c, p. 64, Pl. 12, fig. 12. Webster, 1993, p. 176.
Early Devonian, Bolshenever Formation. Russia, Far East

PARADELOCRINUS Moore and Plummer, 1938.
Recognized number of named columnal species: 1 Pennsylvanian uncertain
Pennsylvanian. United States

Paradelocrinus brachiatus Moore and Plummer, 1940. Finsley, 1989, p. 97, Fig. 26.
Pennsylvanian. United States, Texas

PARAHEXACRINUS Schewtschenko, 1967. **P. fungiformis* Schewtschenko, 1967.
Parahexacrinus (sensu lato) Stukalina, 1986, p. 86. Webster, 1993, p. 176.
Recognized number of named columnal species: 3 Devonian species, 2 Early Devonian uncertain, 1 Eifelian
Early Devonian. Uzbekistan, Tien Shan

Parahexacrinus (sensu lato) Stukalina, 1986 = ***PARAHEXACRINUS***

Parahexacrinus ellipticus Schewtschenko, 1967, p. 81, Pl. 10, fig. 9; Fig. 4.

Schewtschenko, 1968, p. 76, Pl. 10, fig. 9; Fig. 4. Webster, 1973, p. 304.
Early Devonian, Kshtut Horizon. Russia, Zeravshan Mountains

Parahexacrinus glaber Schewtschenko, 1967, p. 79, Pl. 10, figs. 10-132; Fig. 3. Schewtschenko, 1968, p. 76, Pl. 10, figs. 10-12; Fig. 3. Webster, 1973, p. 304.
Early Devonian, Kshtut Horizon. Uzbekistan, Zeravshan Mountains

Parahexacrinus permirabilis Milicina, 1977b, p. 130, Pl. 4, figs. 2-3; Fig. 7. Webster, 1986, p. 371.
Devonian, Eifelian. Russia, Ural Mountains

Parahexacrinus? sp. Gluchowski, 1993a, p. 42, Fig. 4, nos. H-I.
Devonian, late Frasnian, Detrital Beds. Poland

PARAPERNEROCRINUS Yakovlev, 1949.
Recognized number of named columnal species: 1 Devonian, Emsian species
Devonian, Emsian (Coblentzian). Russia

Parapernerocrinus sibiricus Yakovlev, 1949. Milicina, 1977a, p. 138, Pls. 53, figs. 3-6; 55, figs. 1-6. Webster, 1986, p. 371.
Devonian, Emsian (Coblentzian) Sarainin Horizon, Saum Horizon, Vizhaich Horizon, Toshem Horizon. Russia, Ural Mountains

Parapernerocrinus sp. Milicina, 1977a, p. 178, Pl. 53, fig. 7. Webster, 1986, p. 371.
Early Devonian, Sarainin Horizon. Russia, Ural Mountains

PARAPISOCRINUS Mu, 1954.
Recognized number of named columnal species: 1 Silurian, Bielskian species
Silurian, Bielskian. Poland

Parapisocrinus quinquelobus (Bather, 1893). Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 291, Pl. 109, figs. 1a-1c.
Silurian, Bielskian. Poland

Parasitized stem Franzén, 1973, p. 296, Fig. 11. Webster, 1986, p. 400.
Silurian, Sweden

Particirnus verrucosus (Yeltyschewa, 1975) = *Turuchanicrinus verrucosus*

Particrinidae Stukalina, 1986, p. 96, Fig. 29, no. 4. Stukalina, 1988c, p. 44, Fig. 28, no. 4. Webster, 1993, p. 176.
Middle - Late Ordovician

PARTICRINUS Stukalina, 1968. **Pentagonocyclicus partitus* Yeltyschewa, 1960.
Stukalina, 1968c, p. 88 (incorrectly cites type species as *Pentagonopentagonalis partitus*). Stukalina, 1969, p. 209, Fig. 3, no. 1. Stukalina, 1970b, p. 79. Webster, 1973, p. 304. Webster, 1977, p. 209. Jeffords *in* Moore and Teichert, 1978, p.

T934. Hynda, 1986, p. 82. Stukalina, 1986, p. 63. Webster, 1986, p. 371. Webster, 1988, p. 201. Webster, 1993, p. 176.
Recognized number of named columnal species: 5 species. 4 Ordovician, 1 Darriwilian, 3, Sandbian; 1 Early Silurian uncertain
Ordovician, Darriwilian – Sandbian; - Early Silurian. Russia
Ordovician, Sandbian. Kazakhstan

Particrinus demshinensis Yeltyschewa, 1975 = *Turuchanicrinus demshinensis*

Particrinus grumosus Stukalina, 1985a, p. 188, Pl. 3, fig. 3. Webster, 1988, p. 201.
Ordovician, Sandbian. Kazakhstan

Particrinus? grumosus Stukalina, 1985. Stukalina, 1988c, p. 59, Pl. 5, fig. 18. Webster, 1993, p. 177.
Ordovician, Sandbian, Sartanmanay Limestone. Kazakhstan

Particrinus minimus Stukalina, 2000, Pl. 4, fig. 4; Fig. 9, no. 3..
Ordovician, Sandbian, Dolborsky Horizon, middle part of Dzheromskoy Suite. Russia, Siberian Platform

Particrinus multipartitus (Yeltyschewa, 1955). Stukalina, 1979a, p. 145, Pl. 31, figs. 2-3; Fig. 31, no. d. Stukalina, 1982c, p. 179, fig. 11, no. 5. Stukalina, 1984, p. 100, Pl. 37, figs. 9-10. Hynda, 1986, p. 82, Pl. 13, figs. 5-6; Fig. 29. Stukalina, 1986, p. 63, Pl. 11, figs. 20-21. Webster, 1986, p. 372. Stukalina, 1988c, p. 58, Pl. 5, figs. 1-2; Fig. 27, no. 3. Webster, 1988, p. 201. Webster, 1993, p. 177.
Pentagonopentagonalis multipartitus Yeltyschewa, 1955a, p. 44, Pl. 37, fig. 3. Yeltyschewa, 1960, p. 12, Pl. 2, figs. 10-11. Yeltyschewa and Stukalina, 1963 (part), p. 37, Pl. 2, figs. 15-18; Fig. 7. Yeltyschewa, 1964b, p. 75, Pl. 15, fig. 18. Stukalina, 1968c, p. 89. Webster, 1973, p. 318. Stukalina, 1979, p. 145. Webster, 1986, p. 372.
Ramulicrinus multipartitus (Yeltyschewa, 1955). Stukalina, 1968c, p. 89. Stukalina, 1969, p. 209. Stukalina, 1970b, p. 79. Webster, 1973, p. 318. Webster, 1977, p. 219. Hynda, 1979, p. 70, Pl. 1, fig. 5; Fig. 3. Webster, 1986, p. 382.
Ordovician, Sandbian, Mangazeja Horizon, Baksan Subhorizon; Idaver Horizon; Dolbor Horizon. Russia, Siberian Platform, Eastern European Platform, Taymyr

**Particrinus partitus* (Yeltyschewa, 1960). Stukalina, 1968c, p. 88. Stukalina, 1969, p. 209. Stukalina, 1970b, p. 70. Webster, 1973, p. 304. Webster, 1977, p. 209. Stukalina, 1979a, p. 144, Pls. 30, figs. 10-16; 31, fig. 1; Fig. 31, no. e. Stukalina, 1982c, p. 179, Fig. 11, no. 4. Stukalina, 1984, p. 99, Pls. 30, figs. 2-7; 37, fig. 4. Stukalina, 1986, p. 63, Pl. 11, figs. 14-19. Webster, 1986, p. 372. Stukalina, 1988c, p. 59, Pl. 5, figs. 19-24; Fig. 27, no. 2. Webster, 1988, p. 201. Webster, 1993, p. 177.
Pentagonocyclicus partitus Yeltsyschewa, 1960, p. 19, Pl. 2, figs. 7-9. Yeltyschewa and Stukalina, 1963, p. 38, Pl. 2, figs. 12-14; Fig. 8. Webster, 1973, p. 304.

*Pentagonopentagonalis multipartitus*Yeltyschewa and Stukalina, 1963, Pl. 2, fig. 16 only. Stukalina, 1979a, p. 144. Webster, 1986, p. 372.
Ordovician, Darriwilian, Baksan Horizon, Mangazei Horizon, Tolmachev Horizon, Taymyr Horizon. Russia, Siberian Platform, Taymyr

Particrinus verrucosus Yeltyschewa, 1975 = *Turuchanicrinus verrucosus*

Particrinus vulgaris Yeltyschewa, 1982, p. 174, Pl. 2, figs. 3-4. Webster, 1988, p. 201.
Early Silurian, Alavel Suite, Alasha Layer. Russia, Tuva

Particrinus sp. or *Comptocrinus* sp. Donovan and Wright, 1995, p. 235, Fig. 3, no. A.
Ordovician, Katian (Ashgillian), beds above Keisley Limestone. United Kingdom

PARVICRINUS Stukalina, 1979. **P. parvus* Stukalina, 1979.
Stukalina, 1979a, p. 142. Stukalina, 1986, p. 62. Webster, 1986, p. 372. Webster, 1988, p. 202. Webster, 1993, p. 177.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. Russia

**Parvicrinus parvus* Stukalina, 1979a, p. 143, Pl. 30, fig. 9; Fig. 31, no. v. Stukalina, 1984, p. 99, Pl. 30, fig. 1. Stukalina, 1986, p. 62, Pl. 11, fig. 11; Fig. 10, no. 3. Webster, 1986, p. 372. Stukalina, 1988c, p. Fig. 26, no. 1. Webster, 1988, p. 202. Webster, 1993, p. 177.
Ordovician, Darriwilian, Kirensko-Kudrin Horizon, Chertov Horizon, Mangazei Horizon. Russia, Siberian Platform

PATUROCRINUS Le Menn, 1988. **P. stellatus* Le Menn, 1988.
Le Menn, 1988b, p. 470. Webster, 1993, p. 177.
Recognized number of named columnal species: 1 Devonian, Frasnian species
Devonian, Frasnian. France

**Paturocrinus stellatus* Le Menn, 1988b, p. 471, Pl. 54, figs. 1-8, Fig. 7. Webster, 1993, p. 177.
Devonian, Frasnian, Beaulieu Formation, Patures Member. France

Pédoncule de *Arthroacantha?* sp. Termier, G. and Termier, H., 1950, p. 224, Pl. 220, figs. 5-7. Webster, 1973, p. 329.
Devonian, Emsian. Morocco

Pédoncule de *Botryocrinus* Termier, G. and Termier, H., 1950, p. 210, Pl. 213, figs. 1-5. Webster, 1973, p. 329.
Early Devonian. Morocco

Pédoncule de Crinoide pourteur d'expansions calciformes Termier, G. and Termier, H., 1950, p. 224, Pl. 220, figs. 2-4. Webster, 1973, p. 329.
Devonian, Emsian. Morocco

Pédoncule de Dendrocrinoidea indéterminé

Termier, G. and Termier, H., 1950, p. 240, Pl. 228, figs. 15-16. Webster, 1973, p. 329.
Mississippian, late Viséan. Algeria
Termier, G. and Termier, H., 1950, p. 240, Pl. 228, figs. 20-24. Webster, 1973, p. 330.
Mississippian, late Viséan. Morocco

Pédoncule de Flexibilia Termier, G. and Termier, H., 1950, p. 222, Pl. 219, fig. 6. Webster, 1973, p. 330.
Devonian, Famennian. Morocco

Pédoncule de Monobathra indéterminé Termier, G. and Termier, H., 1950, p. 236, Pl. 226, figs. 34-35. Webster, 1973, p. 330.
Middle Devonian: Algeria

Pédoncle de *Myrtellocrinus* Delage and Herouard, 1903, p. 381, Fig. 460.
(*Ancyrocrinus* anchor holdfast, GDW, 2011)

Pédoncule enroulé en spire plane indéterminé Termier, G. and Termier, H., 1950, p. 214, Pl. 215, figs. 12-13. Webster, 1973, p. 330.
Ordovician, Sandbian or Katian (Caradocian). Morocco

Pédoncule indéterminé
Termier, G. and Termier, H., 1950, p. 206, Pl. 211, fig. 29. Webster, 1973, p. 330.
Devonian, Emsian. Morocco
Termier, G. and Termier, H., 1950, p. 206, Pl. 211, figs. 30-32. Webster, 1973, p. 330.
Mississippian, Strunian. Morocco
Termier, G. and Termier, H., 1950, p. 210, Pl. 213, figs. 14-15. Webster, 1973, p. 330.
Early Devonian. Morocco
Termier, G. and Termier, H., 1950, p. 210, Pl. 213, figs. 30-31. Webster, 1973, p. 330.
Mississippian, late Viséan. Morocco
Termier, G. and Termier, H., 1950, p. 210, Pl. 213, figs. 32-33. Webster, 1973, p. 330.
Middle Devonian. Morocco
Termier, G. and Termier, H., 1950, p. 220, Pl. 218, figs. 15, 17 (*non* fig. 16 as given p. 220). Webster, 1973, p. 330.
Mississippian, Strunian. Morocco
Termier, G. and Termier, H., 1950, p. 220, Pl. 218, fig. 53. Webster, 1973, p. 330.
Mississippian, Viséan. Morocco
Termier, G. and Termier, H., 1950, p. 222, Pl. 219, fig. 1. Webster, 1973, p. 330.
Ordovician, Sandbian or Katian (Caradocian). Morocco
Termier, G. and Termier, H., 1950, p. 222, Pl. 219, fig. 7. Webster, 1973, p. 330.
Mississippian, late Viséan. Algeria
Termier, G. and Termier, H., 1950, p. 222, Pl. 219, figs. 8-9. Webster, 1973, p. 330.
Devonian, Famennian. Morocco

Termier, G. and Termier, H., 1950, p. 222, Pl. 219, fig. 10. Webster, 1973, p. 330.
Early Devonian. Morocco
Termier, G. and Termier, H., 1950, p. 222, Pl. 219, figs. 11-12. Webster, 1973, p. 331.
Devonian, Eifelian. Morocco
Termier, G. and Termier, H., 1950, p. 222, Pl. 219, figs. 13-14. Webster, 1973, p. 331.
Mississippian, late Viséan: Algeria
Termier, G. and Termier, H., 1950, p. 222, Pl. 219, figs. 15-16. Webster, 1973, p. 331.
Mississippian, late Viséan: Algeria
Termier, G. and Termier, H., 1950, p. 224, Pl. 220, fig. 8. Webster, 1973, p. 331.
Age unknown. Morocco
Termier, G. and Termier, H., 1950, p. 224, Pl. 220, fig. 9. Webster, 1973, p. 331.
Age unknown. Morocco
Termier, G. and Termier, H., 1950, p. 224, Pl. 220, figs. 10-11. Webster, 1973, p. 331.
Age unknown. Morocco
Termier, G. and Termier, H., 1950, p. 224, Pl. 220, figs. 12-13. Webster, 1973, p. 331.
Age unknown. Morocco
Termier, G. and Termier, H., 1950, p. 234, Pl. 225, fig. 17. Webster, 1973, p. 331.
Pennsylvanian, early Westphalian: Algeria
Termier, G. and Termier, H., 1950, p. 236, Pl. 226, fig. 10. Webster, 1973, p. 331.
Mississippian, Strunian. Morocco
Termier, G. and Termier, H., 1950, p. 236, Pl. 226, figs. 30-31. Webster, 1973, p. 331.
Mississippian, late Viséan: Algeria
Termier, G. and Termier, H., 1950, p. 240, Pl. 228, fig. 17. Webster, 1973, p. 331.
Mississippian, late Viséan. Algeria
Termier, G. and Termier, H., 1950, p. 240, Pl. 228, figs. 18-19. Webster, 1973, p. 331.
Mississippian, late Viséan. Algeria

Pédoncule indéterminé, parasite Termier, G. and Termier, H., 1950, p. 234, Pl. 225, figs. 19-20. Webster, 1973, p. 331.
Pennsylvanian, early Westphalian. Algeria

Pédoncule indéterminé, probablement parasite Termier, G. and Termier, H., 1950, p. 234, Pl. 225, fig. 18. Webster, 1973, p. 331.
Pennsylvanian, early Westphalian. Algeria

Pédoncule indéterminé portant des incrustations de racines Termier, G. and Termier, H., 1950, p. 224, Pl. 220, figs. 18-20. Webster, 1973, p. 331.
Age unknown. Morocco

Pédoncule indéterminé portant des insertions de cirres Termier, G. and Termier, H., 1950, p. 224, Pl. 220, figs. 21-25. Webster, 1973, p. 331.

Age unknown. Morocco

Pédoncule indéterminé servant de supports aux racines d'individus jeunes Termier, G. and Termier, H., 1950, p. 224, Pl. 220, figs. 26-33. Webster, 1973, p. 331.
Age unknown. Morocco

Pédoncule indéterminé Termier, G. and Termier, H., 1950, p. 224, Pl. 220, figs. 14-17. Webster, 1973, p. 332.
Age unknown. Morocco

Pédoncule indéterminé Termier, G. and Termier, H., 1950, p. 222, Pl. 219, fig. 34. Webster, 1973, p. 331.
Devonian, Eifelian. Morocco

Pédoncules d'un Camerata indéterminé Termier, G. and Termier, H., 1950, p. 236, p. 226, figs. 25-29. Webster, 1973, p. 330.
Middle Devonian. Algeria

Pédoncules d'un Dendrocrinoide indéterminé Termier, G. and Termier, H., 1950, p. 234, Pl. 225, figs. 12-16. Webster, 1973, p. 330.
Pennsylvanian, early Westphalian. Algeria

PEGOCRINUS Kirk, 1940.
Recognized number of named columnal species: 1 Mississippian, CuIIIa1 species Mississippian, CuIIIa1. Germany

Pegocrinus? altus Haude and Thomas, 1992, p. 325, Pl. 3, fig. A.
Mississippian, *Goniatites* Biozone, CuIIIa1. Germany

Pelmatozoan column Paul and Smith, 1984, p. 466, Fig. 15, no. D. Webster, 1988, p. 202.
No stratigraphic data, diagamatic

Pelmatozoan columnals Boucot and Thompson, 1963, p. 1315, Pl. 9, figs. 8-9. Webster, 1977, p. 230.
Silurian, late Llandovery, Clough Formation. United States, New Hampshire

Pelmatozoan columnals (mainly crinoidal?) Bowen, Rhoads, and McAlester, 1974, p. 95, Figs. 11, 13, 15, 17. Webster, 1986, p. 400.
Mississippian, Brigantian, Charlestown Main Limestone. Ireland; United Kingdom, Scotland

Pelmatozoan columnals Unrug et al., 2000, p. 987, Fig. 6, nos. 1-4.
Silurian or younger, Walden Creek Group. United States, Tennessee

Pelmatozoan columnals Donovan et al., 2010, p. 936, Figs. 3, nos. A, C; 4.
Ordovician, Katian (Ashgillian), Lady Burn Starfish Bed. United Kingdom, Scotland, Ayrshire, Girvan

Pelmatozoan debris Precht and Shepard, 1989, p. 685, Fig. 6. Webster, 1993, p. 177.
Mississippian, Tournaisian (Kinderhookian), Lodgepole Limestone. United States, Montana

Pelmatozoan plate (columnal) Boucot and Thompson, 1963, p. 1315, Pl. 9, figs. 11-12. Webster, 1977, p. 230.
Silurian, Wenlockian?, Fitch Formation. United States, New Hampshire

Pelmatozoan pluricolumnal indet. Rhebergen and Donovan, 1994, p. 19, Figs. 2-3.
Onychophora?. Rhebergen, 1990, p. 130, Figs. 1-3. Rhebergen and Donovan, 1994, p. 19.
Late Ordovician, cobble in Enschede Formation (Quaternary glacial deposit). Germany

Pelmatozoan remains Welby, 1962, p. 36, Pl. 6, fig. 32.
Ordovician. United States, Vermont

Pengagonocyclicus indissimilis (Schewtschenko, 1964) = *Bystrowicrinus bilobatus*

Pennatocrinidae Stukalina, 1986, p. 100, Fig. 30, no. 1. Webster, 1993, p. 177.
Late Silurian - Early Devonian

PENNATOCRINUS Stukalina, 1968. **P. subpennatus* Yeltyschewa *in* Stukalina, 1968. Stukalina, 1968b, p. 261. Webster, 1973, p. 304. Webster, 1977, p. 209. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 77. Webster, 1986, p. 372. Stukalina, 1988c, p. 28, Fig. 15, no. 1. Webster, 1988, p. 202. Webster, 1993, p. 177.
Recognized number of named columnal species: 2 species. 1 Late Silurian uncertain; 1 Late Siiliurian – Devonian, Lochkovian
Late Silurian-Early Devonian. Kazakhstan, Russia

Pennatocrinus praepennatus Stukalina, 1968b, Fig. 2, no. 1 (*nomen nudum*). Stukalina *in* Levitskiy *et al.*, 1968, p. 72, Fig. 2, no. 1 (*nomen nudum*) (attribute authorship to Yeltyschewa). Webster, 1973, p. 304. Stukalina, 1986, p. 77, Pl. 32, figs. 2-3, (*nomen nudum*) . Stukalina, 1988c, p. 62, Pl. 11, fig. 1 (*nomen nudum*), no description. Webster, 1993, p. 177.
Late Silurian, Tokrau Horizon. Kazakhstan

**Pennatocrinus subpennatus* Yeltyschewa *in* Stukalina, 1968b, p. 263, Pl. 1, figs. 14-16; Figs. 1, no. 1; 2, no. 2. Levitskiy *et al.*, 1968, p. 72, Fig. 2, no. 2. Stukalina, 1971, p. 194, Pl. 2, fig. 6. Webster, 1973, p. 304. Stukalina, 1975, p. 136, Pl. 35, figs. 1-2. Webster, 1977, p. 209. Stukalina, 1978d, p. 73, Unnum. Fig. p. 72. Stukalina, 1982d, p. 142, Unnum. Fig. p. 141. Stukalina, 1986, p. 77, Pl. 19, fig. 1-2; Fig. 22, no. 1; Tab. 5. Webster, 1986, p. 372. Stukalina, 1988c, p. 27, Pl. 12, fig. 11; Figs. 12, no. 1; 31. Webster, 1988, p. 202. Stukalina, 1991, p. 186, Pl. 45,

figs. 1-3; Fig. 17, nos. b-g. Webster, 1993, p. 178.

Pentagonopentagonalis subpennatus Yeltyschewa, 1968. Stukalina, 1965b, p. 135, Pl. 2, figs. 9-10 (no description). Stukalina, 1968b, p. 261 (gives name as "nom. in coll.," attributing authorship to Yeltyschewa, thus establishing the species). Webster, 1973, p. 304.

Late Silurian - Devonian, Lochkovian (Gedinnian), Ainasu Horizon, Kokbaital Horizon, Pribalkhash Horizon. Russia; Kazakhstan, Pribalkhash

PENTACAULISCUS Moore and Jeffords, 1968. **P. nodosus* Moore and Jeffords, 1968.

Moore and Jeffords, 1968, p. 52. Le Menn, 1970a, p. 53. Webster, 1973, p. 304. Webster, 1977, p. 209. Jeffords *in* Moore and Teichert, 1978, p. T934. Webster, 1986, p. 372. Webster, 1988, p. 202. Webster, 1993, p. 178.

Recognized number of named columnal species: 4 Devonian species, 2 Pragian – Emsian, 2 Emsian

Devonian, Pragian - Emsian. France

Devonian, Emsian. United states

Pentacauliscus armoricanus Le Menn, 1970a, p. 54, Pl. 8, figs. 8-10; Fig. 12. Webster, 1977, p. 209. Le Menn, 1985, p. 119, Pl. 26, figs. 8-11; Fig. 49, no. A. Le Menn, 1987b, p. 822, Pl. 3, figs. 8, 10; Fig. 13, no. a. Webster, 1988, p. 202. Webster, 1993, p. 178.

Devonian, Pragian (late Siegenian) - early Emsian, Grauwacke du Faou Formation, Montguyon Formation. France, Armorican Massif

Pentacauliscus armoricanus? Le Menn, 1970 = *Pentacauliscus montguyonensis*

Pentacauliscus montguyonensis Le Menn *in* Le Menn and Racheboeuf, 1976, p. 312, Pl. 30, figs. 12-16. Le Menn, 1985, p. 120, Pl. 26, figs. 12-16; Fig. 49, no. B. Webster, 1986, p. 372. Le Menn, 1987b, p. 822, Pl. 3, figs. 9, 11-12; Fig. 13, no. b. Webster, 1988, p. 202. Webster, 1993, p. 178.

Pentacauliscus armoricanus? Le Menn, 1970a, p. 56, Pl. 8, figs. 5-7. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 311, Pl. 31, figs. 7-9. Webster, 1977, p. 210. Webster, 1986, p. 372.

Devonian, Pragian (late Siegenian) - late Emsian, Grauwacke du Faou Formation; Montguyon Formation. France, Armorican Massif

**Pentacauliscus nodosus* Moore and Jeffords, 1968, p. 52, Pl. 7, figs. 6-7. Webster, 1973, p. 304.

Devonian, Emsian (Helderbergian), Birdsong Shale. United States, Tennessee

Pentacauliscus nodosus? Moore and Jeffords, 1968, p. 52, Pl. 7, fig. 5. Webster, 1973, p. 304.

Devonian, Emsian (Helderbergian), Birdsong Shale. United States, Tennessee

Pentacauliscus cf. *nodosus* Moore and Jeffords, 1968. Siamova and Prokop, 2000, p. 34, Figs. 1, nos. a-g.

Devonian, early Emsian, base Zlichov Limestone. Czech Republic, Bohemia

Pentacauliscus stellatus Prokop and Slámová*, 2012, p 133, Pl. 1, figs. 1-6.*
Devonian, early Emsiam Zlichow Limestone. Czech Republic, Barrandian area

Pentacauliscus verveurensis Le Menn, 1985, p. 121, Pl. 27, figs. 3-8; Fig. 49, no. C. Le Menn, 1987b, p. 822, Pl. 3, figs. 13-15, Fig. 13, no. c. Webster, 1988, p. 202. Webster, 1993, p. 178.
Devonian, late Emsian, Verveur Formation. France, Armorican Massif

Pentacauliscus? sp. Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 328, Pl. 1, fig. 30.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia

PENTACRINITES Blumenbach, 1804. **P. fossilis* Blumenbach, 1804.
Early - Late Jurassic. Europe
Note. Several Paleozoic crinoids have been incorrectly assigned to *Pentacrinites* and *Pentacrinus*. They are left in these combinations until rectified in future studies.
Recognized number of named columnal species: 3 species. 1 Ordovician, Katian; 2 Devonian, 1 Eifelian, 1 uncertain

Pentacrinites decorus Mihi. Kutorga, 1845-1846, p. 133, Pl. 8, fig. 5.
Devonian, Limestone of Wochana. Poland

Pentacrinites hamptoni Emmons, 1842. Miller, S. A., 1889, p. 267.
Ordovician, Katian, Trenton Group. United States, New York

Pentacrinites priscus Goldfuss, 1831, p. 165, Pl. 53, figs. 7a-7b.
Pentacrinus priscus (Goldfuss, 1831). Steininger, 1853, p. 37.
Devonian, Eifelian. Germany

PENTACRINUS
Recognized number of named columnal species: 2 species. 1 Paleozoic uncertain, Devonian, Eifelian; 1 Devonian, uncertain

Pentacrinus ähnliche Stielglieder Rakusz, 1930, p. 169, Fig. 22.
Pennsylvanian. Slovakia, Dobsina

Pentacrinus antiquus Eichwald, 1860 = *Baltocrinus antiquus*

Pentacrinus fimbriatus Eaton, 1832, p. 37, Pl. 1, fig. 10.
Devonian, First Graywacke. United States, New York

Pentacrinus lobatus Eichwald, 1860 = *Pentagonopentagonalis lobatus = *Baltocrinus balticus = Cyclopentagonalis lobatus*

Pentacrinus priscus (Goldfuss, 1831). (**Note**: These are not *Pentacrinus priscus*, GDW, 2011)

Sandberger and Sandberger, 1850-1856, p. 402, Pl. 35, figs. 8-8c.
Devonian, Eifelian, Stringocephalenkalke. Germany
Eichwald, 1860, p. 576, Pl. 31, figs. 39a-39b.
Paleozoic. Estonia

Pentacrinus priscus Teichert, 1926 (part) = *Baltocrinus guttaeformis*

Pentacrinus priscus Teichert, 1926 (part) = *Baltocrinus hrevicaensis*

Pentacrinus? sp. Golowkinsky, 1869, p. 359, Pl. 2, fig. 10.
Permian. Russia, Kansko-Volzhskogo Basin

Pentagonal columnal sp. Donovan et al.,2012, p. 231.
Devil's Dingle morphology 1 Weltkamp and Donovan, 1985 p. 192, Fig. 3, nos A-B.
Donovan et al., 2012, p. 231.
Silurian, Hughley Shales. United Kingdom

PENTAGONITES Rafinesque, 1819. *Nomen nudum*
Rafinesque, 1819, p. 429. Miller, S. A., 1889, p. 267. Bather *in* Lankester, 1900, p. 203. Bassler, 1938, p. 148. Bassler and Moodey, 1943, p. 597 (pentagonal columnal). Moore and Laudon, 1943b, p. 104. Webster, 1973, p. 304. Jeffords *in* Moore and Teichert, 1978, p. T937.
Age unknown

Pentagonites cincta Rafinesque, 1819, p. 429 (*nomen nudum*).

Pentagonites crenularis Rafinesque, 1819, p. 429 (*nomen nudum*).

Pentagonites inequalis Rafinesque, 1819, p. 429 (*nomen nudum*).

"Pentagonocyclic columnal" species Donovan, 1995b, p. 151, Pl. 24, fig. 8.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

PENTAGONOCYCLICUS Yeltyschewa, 1955. *Nomen vetitum*
Yeltyschewa, 1955a, p. 46. Yeltyschewa, 1956, p. 42, Figs. 1, no. 3E; 2, nos. i, k. Yeltyschewa, 1959, p. 233, Figs. 1, no. 3E. Yeltyschewa, 1964b, p. 75, Figs. 1, no. 3E. Dubatolvoa, 1964, p. 9, Figs. 1, no. 3E. Schewtschenko, 1971, p. 21. Webster, 1973, p. 304. Webster, 1977, p. 210. Jeffords *in* Moore and Teichert, 1978, p. T934. Hynda, 1986, p. 105. Stukalina, 1986, p. 75, 87. Webster, 1986, p. 373. Webster, 1993, p. 178. Donovan, 1995b, p. 143.
Recognized number of named columnal species: 92 species. Species are reported from the Ordovician, Floian, to the Late Permian.
Ordovician - Permian. Russia
Middle Ordovician. Estonia
Ordovician, Katian - Hirnantian. United Kingdom
Early Silurian. tadzhikstan
Late Silurian, Uzbekistan
Ordovician, Late Silurian, Late Devonian, Mississippian. Kazakhstan

Early – Middle Ordovician, Middle Devonian, Early - Middle Carboniferous. China

Note: *Pentagonocyclicus* is a morphoform that has had many species assigned to it that probably belong to a number of different genera based on cups and crowns. Currently I consider the genus a taxonomic quagmire lacking any stratigraphic value. GDW

Pentagonocyclicus acanthaceus Yeltyschewa, 1968, p. 44, Pl. 5, figs. 7-9 (typographical error as *P. acantihaceus* on plate explanation). Webster, 1973, p. 305.
Silurian, Skal Horizon. Russia, Podolia

Pentagonocyclicus acbastanensis Sisova, 1960, p. 56 (*nomen nudum*). Webster, 1973, p. 305.
Devonian, Famennian. Kazakhstan

Pentagonocyclicus acbastanensis var. *unda* Sisova, 1960, p. 56 (*nomen nudum*). Webster, 1973, p. 305.
Devonian, Famennian. Kazakhstan

Pentagonocyclicus aculeatus Dubatolova, 1964, p. 72, Pl. 9, fig. 14. Webster, 1973, p. 305.
Early Devonian. Russia, Kuznetz Basin

Pentagonocyclicus admotus Dubatolova and Shao, 1959, p. 43, Pl. 1, fig. 5. Webster, 1973, p. 305.
Late Permian. China, Hunan Province

Pentagonocyclicus akbaitalicus Schewtschenko, 1968, p. 281, Pl. 66, fig. 4; Fig. 32. Webster, 1973, p. 305.
Middle Carboniferous. Russia, Pamir

Pentagonocyclicus aktschetauensis Stukalina, 1960, p. 102, Fig. 3. Webster, 1973, p. 305.
Silurian, late Llandoverian, *Pentamerus longiseptatus* Beds. Kazakhstan, Chingiz Mountains

Pentagonocyclicus altaicus Yeltyschewa, 1969, Pl. 73, fig. 5 (*nomen nudum*). Webster, 1977, p. 210.
Mississippian. Russia, Upper Amur Basin

Pentagonocyclicus cf. *altaicus* Yeltyschewa, 1969. Xu, Shan, and Chang, 1962, p. 120, Pl. 1, figs. 6a-6b.
Mississippian, Huaitoutala Formation. China, Qinghai

Pentagonocyclicus altimarginalis Yeltyschewa, 1955 = **Altimarginalicrinus altimarginalis*

Pentagonocyclicus ex. gr. *angustilobatus* Myagkova *et al.*, 1963 = *Bystrowicrinus quinquelobatus*

Pentagonocyclicus arenarius Yeltyschewa and Schewtschenko, 1960 = *Arenariocrinus arenarius*

Pentagonocyclicus arenarius cingulatus (Yeltyschewa and Schewtschenko, 1960) = *Arenariocrinus arenarius cingulatus*

Pentagonocyclicus arenarius ordinatus (Yeltyschewa, 1959) = *Arenariocrinus arenarius ordinatus*

Pentagonocyclicus arenarius radialis Yeltyschewa and Dubatolova, 1967, p. 57, Pl. 6, fig. 1; Fig. 22. Webster, 1973, p. 305.
Mississippian. Russia, Priamur

Pentagonocyclicus aseriensis Yeltyschewa, 1966, p. 61, Pl. 1, figs. 7-9. Webster, 1973, p. 305.
Middle Ordovician, Dapingian. Estonia

Pentagonocyclicus astericus Schewtschenko, 1966 = **Schyschcatocrinus astericus*

Pentagonocyclicus astericus papulosus Schewtschenko, 1966 = *Schyschcatocrinus astericus papulosus*

Pentagonocyclicus asymmetricus Yeltyschewa and Stukalina *in* Stukalina, 1973, p. 48, Pl. 6, figs. 6-7. Webster, 1977, p. 210.
Middle Carboniferous. Russia, Transbaikal

Pentagonocyclicus bakanasensis Sisova, 1960, p. 55 (*nomen nudum*). Webster, 1973, p. 305.
Devonian, Givetian - Frasnian. Kazakhstan

Pentagonocyclicus baskaensis Sisova, 1960, p. 53 (*nomen nudum*). Webster, 1973, p. 305.
Devonian, Coblenzian - Frasnian. Kazakhstan

Pentagonocyclicus bicostatus Stukalina, 1961 = *Costatocrinus bicostatus*

Pentagonocyclicus bifidus Yeltyschewa, 1964a, p. 74, Pl. 3, figs. 23-24. Webster, 1973, p. 305.
Early Silurian. Russia, Izvoz

Pentagonocyclicus biplex (Eichwald, 1860) = **Crenatocrinus biplex*

Pentagonocyclicus bonus Dubatolvoa and Chang (MS) *in* Xu, Shan, and Chang, 1962, p. 123, Pl. 2, figs. 6a-b.

Middle Carboniferous, upper part of Keluke. China, Qinghai

Pentagonocyclicus borealis Yeltyschewa, 1955 = *Crotalocrinites? borealis*

Pentagonocyclicus burovi Skoropisceva, 1969 = *Burovicrinus burovi*

Pentagonocyclicus bylfuracus Milicina, 1987 = *Pentagonopentagonalis bylfuracus*

Pentagonocyclicus bytantaicus Skoropisceva, 1969, p. 38, Pl. 3, fig. 3. Webster, 1977, p. 210.
Permian (P1). Russia, Verkhoyane

Pentagonocyclicus cinctus Milicina, 1973, p. 20, Pl. 4, figs. 5-6, 8; Fig. 4. Webster, 1993, p. 178.
Silurian, upper Wenlockian, Elkin Horizon. Russia, northern and central Ural Mountains

Pentagonocyclicus cingulatus (Goldfuss, 1866), Dubatolova, 1964 = *Salairocrinus cingulatus* = *Pestericrinus cingulatus*

Pentagonocyclicus circumvalatus var. *minor* Yeltyschewa *in* Dubatolova and Shao, 1959 = *Bicostulatocrinus circumvalatus minor*

Pentagonocyclicus cf. *circumvalatus* var. *minor* Yeltyschewa *in* Dubatolova and Shao, 1959, p. 45, Pl. 1, fig. 9; Unnum. Fig. Webster, 1973, p. 306.
Mississippian, Viséan. China, Hunan Province

Pentagonocyclicus concavus Stukalina, 1973 = **Concavacrinus concavus*

Pentagonocyclicus concavus Milicina, 1973 (*non* Stukalina), p. 19, Pl. 2, figs. 8-10; Fig. 2. Webster, 1993, p. 178.
Silurian, Ludlovian, Demid Layer. Russia, Ural Mountains

Pentagonocyclicus concentricus Yeltyschewa, 1964a, p. 73, Pl. 2, figs. 22-28. Webster, 1973, p. 306.
Middle Ordovician, Dapingian. Estonia

Pentagonocyclicus conserratus Yeltyschewa and Dubatolova, 1967, p. 53, Pl. 5, fig. 15. Yeltyschewa, 1969, p. 164, Pl. 40, fig. 4. Webster, 1973, p. 306. Webster, 1977, p. 210.
Late Early-Early Middle Devonian. Russia, Upper Amur Basin

Pentagonocyclicus constrictus Yeltyschewa, 1964a, p. 75, Pls. 2, figs. 19-21; 4, fig. 23. Webster, 1973, p. 306.
Middle Ordovician, Dapingian. Estonia

Pentagonocyclicus continatus Dubatolova, 1968 = *Crossotocrinus cortinatus*

Pentagonocyclicus cortinatus Dubatolova, 1968 = **Crossotocrinus cortinatus*

Pentagonocyclicus costatus Schewtschenko, 1966 = *Pisocrinus? costatus costatus* = *Fabalium costatus*

Pentagonocyclicus curtus Dubatolova, 1964 = *Lissocrinus curtus*

Pentagonocyclicus cylindricus Mu and Lin, 1983, p. 352, Pl. 130, figs. 5-6. Webster, 1988, p. 202.
Middle Ordovician, Darriwilian, Majagou Group. China, Jiangsu Province

Pentagonocyclicus definitus Stukalina, 1961 = *Tolenicrinus definitus*

Pentagonocyclicus cf. *dentatus* (Quenstedt, 1874-1876). Milicina, 1970, p. 103, Pl. 29, figs. 11-13 (not fig. 10 as listed on plate explanation p. 109). Webster, 1977, p. 211.
Early-Middle Devonian. Russia, Central Urals

Pentagonocyclicus dentatus echinata (Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961) = *Fabalium rudocostatum*

Pentagonocyclicus dentatus var. *echinata* (Yeltyschewa *in* Yeltyschewa and Dubatolova, 1961) = *Fabalium rudocostatum*

Pentagonocyclicus dorofeevi Skoropisceva, 1969, p. 41, Pl. 3, fig. 8. Webster, 1977, p. 211.
Middle Carboniferous - Early Permian. Russia, Verkhoyane, Taymyr, Nova Zemlya

Pentagonocyclicus dvinaeboreae Yeltyschewa *in* Dubatolova and Shao, 1959. Webster, 1973, p. 306.
Pentagonocyclicus dvinae-boreae Yeltyschewa *in* Dubatolova and Shao, 1959, p. 44, Pl. 1, fig. 7. Webster, 1973, p. 306.
Early-Middle Carboniferous. China, Kwangtung Province; Russia, North Dvina River Basin

Pentagonocyclicus dvinae-boreae Yeltyschewa *in* Dubatolova and Shao, 1959 = *Pentagonocyclicus dvinaeboreae*

Pentagonocyclicus egiasarowi Yeltyschewa, 1960 = *Bystrowicrinus egiasarowi* = **Egiasarowicrinus egiasarowi*

Pentagonocyclicus elegans Yeltyschewa, 1960, p. 20, Pl. 4, figs. 9-12. Yeltyschewa, 1964b, p. 75, Pl. 15, fig. 13. Webster, 1973, p. 306. Stukalina, 1982b, p. 159. Milicina, 1985, p. 54, Pl. 3, figs. 2-4. Webster, 1988, p. 203. Webster, 1993, p. 178.
Glyptocrinus? elegans (Yeltyschewa, 1960). Stukalina, 1986, p. 140, Pl. 31, fig. 2. Stukalina, 1982b, p. 159, Pl. 24, fig. 10; Fig. 28, nos. kh, ts. Milicina, 1985, p. 54. Stukalina, 1988c, p. 62, Pl. 10, figs. 6, 14. Webster, 1988, p. 203. Webster,

1993, p. 162.
Glyptocrinus elegans (Yeltyschewa, 1960). Stukalina, 2000, p. 32, Pl. 7, figs. 1-3; 8, fig. 1; 9, fig. 3; Fig. 6, no. 2. (*non* Pl. 10, as given p. 32)
Early Silurian, Khaastyrsky Horizon, Mashkobskaya Suite. Russia, Siberian Platform
Silurian, Llandoverian, lower part of Persei Suite, Khakom Horizon. Russia, Siberian Platform, Nova Zemlya

Pentagonocyclicus ellipticus Stukalina, 1973 = **Ovalicrinus ellipticus*

Pentagonocyclicus equitans Yeltyschewa, 1966, p. 62, Pl. 1, figs. 10-12. Webster, 1973, p. 306.
Middle Ordovician,Dapingian, Azeri Horizon. Estonia

Pentagonocyclicus exculcatus Dutabolova, 1964 = *Cotylocrinus exculcatus*

Pentagonocyclicus expolitus Dubatolova, 1964 = **Haplotetocrinus expolitus*

Pentagonocyclicus expressus Dubatolova and Shao, 1959 = *Floricyclicus expressus*

Pentagonocyclicus falsus Dubatolova and Shao, 1959 = *Unilineatocrinus falsus*

Pentagonocyclicus festus Schewtschenko, 1966, p. 164, Pl. 5, fig. 12; Fig. 35. Webster, 1973, p. 307.
Late Silurian, Tiverian, Shishkat Horizon. Uzbekistan, Tien Shan Mountains

Pentagonocyclicus filigerum Schewtschenko, 1966, p. 168, Pl. 6, figs. 23-24; Fig. 40. Webster, 1973, p. 307. Milicina, 1977a, p. 147, Pl. 56, figs. 9-11; Fig. 32. Webster, 1986, p. 373.
Late Silurian - Early Devonian, Sarainin Horizon, Saum Horizon, Vizhaich Horizon, Toshem Horizon. Uzbekistan, Tien Shan Mountains, Ural Mountains

Pentagonocyclicus firmus Yeltyschewa *in* Modzalevskaya, 1967, p. 547, Pl. 6, fig. 25 (*nomem nudum*). Yeltyschewa and Dubatolova *in* Yeltyschewa, 1969, p. 164, Pl. 59, figs. 2-3. Webster, 1973, p. 307. Webster, 1977, p. 211.
Devonian, Givetian-early Frasnian, Oldoi Suite. Russia, Upper Amur Basin

Pentagonocyclicus forus Stukalina, 1961 = *Gregariocrinus forus*

Pentagonocyclicus frondeus Stukalina, 1961, p. 38, Pl. 2, fig. 2. Webster, 1973, p. 307.
Late Silurian. Kazakhstan

Pentagonocyclicus glaber Yeltyschewa *in* Dubatolvoa and Yeltsychewa, 1961 = **Lissocrinus glaber*

Pentagonocyclicus cf. *gracilidentatus* Dubatolova and Wang (MS) *in* Xu, Shan, and Chang, 1962, p. 122, Pl. 2, figs. 4a-b.
Middle Carboniferous, upper part of Keluke Group. China, Qinghai

Pentagonocyclicus gradatus Yeltyschewa *in* Dubatolova, 1964 = *Crossotocrinus gradatus*

Pentagonocyclicus granatus Dubatolova, 1964 = *Calleocrinus granatus*

Pentagonocyclicus granosus Yeltyschewa and Stukalina, 1977, p. 221, Pl. 4, fig. 8. Webster, 1986, p. 373.
Late Silurian, Vaigzch Horizon. Russia, Vizhaich

Pentagonocyclicus cf. *granosus* Yeltyschewa and Stukalina, 1977.
Pentagonocyclinus cf. *granulosus* (Yeltyschewa and Stukalina, 1977). Le Menn *in* Blaise et al., 1991, p. 176, Pl. 2, fig. 16.
Late Silurian, White Rock Formation. Canada, Nova Scotia

Pentagonocyclinus cf. *granulosus* (Yeltyschewa and Stukalina, 1977) = *Pentagonocyclicus* cf. *granosus*

Pentagonocyclicus haldaranensis Yeltyschewa and Schewtschenko, 1960, p. 122, Pl. 2, figs. 9-10. Webster, 1973, p. 307.
Mississippian. Russia, Darvas

Pentagonocyclicus harperi Donovan, 1995b, p. 143, Pl. 24, figs. 9-10.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Pentagonocyclicus hibernicus Donovan, 1995b, p. 143, Pl. 25, fig. 1.
Ordovician, Floian (Arenigian), Tourmakeady Limestone. United Kingdom

Pentagonocyclicus hissariensis (Yeltyschewa and Schewtschenko, 1960) = *Arenariocrinus hissariensis*

Pentagonocyclicus hobotschaloensis Dubatolova, 1967 = *Lissocrinus hobotschaloensis*

Pentagonocyclicus hsianghsiagnensis Dubatolova and Shao, 1959, p. 46, Pl. 1, fig. 16. Webster, 1973, p. 307.
Mississippian, Viséan. China, Hunan Province

Pentagonocyclicus humilicristatus Yeltyschewa, 1955b, p. 36, Pl. 15, figs. 2-3. Webster, 1973, p. 307.
Devonian. Russia, Minusin Trough

Pentagonocyclicus humilis Dubatolova, 1964 = *Salairocrinus humilis*

Pentagonocyclicus imatschensis Yeltyschewa and Dubatolova, 1961 = **Amurocrinus imatschensis*

Pentagonocyclicus inaequalis Yeltyschewa, 1966, p. 60, Pl. 3, figs. 12-13. Webster, 1973, p. 307.
Late Ordovician, Katian. Estonia

Pentagonocyclicus imatschensis Yeltyschewa and Dubatolova, 1961 = **Amurocrinus imatschensis*

Pentagonocyclicus incelebratus Yeltsychewa and Dubatolova, 1967 = *Graptocrinus incelebratus*

Pentagonocyclicus incellebratus Yeltsychewa and Dubatolova, 1967 = *Graptocrinus incelebratus*

Pentagonocyclicus inconditus Dubatolova, 1964 = **Graptocrinus inconditus*

Pentagonocyclicus indissimilis Schewtschenko, 1964 = *Bystrowicrinus bilobatus*

Pentagonocyclicus infimus Dubatolova, 1964 = *Glyphidocrinus infimus*

Pentagonocyclicus infitialis Yeltyschewa and Dubatoloa *in* Dubatolova and Yeltyschewa, 1969, p. 70, Pl. 16, fig. 9. Webster, 1977, p. 212.
Mississippian. Russia, Armenia

Pentagonocyclicus inflatus Dubatolova, 1964 = *Agathocrinus inflatus*

Pentagonocyclicus insectus Yeltyschewa *in* Dubatolova, 1964 = *Lissocrinus insectus*

Pentagonocyclicus insignis Dubatolova, 1964 = **Cotylocrinus insignis*

Pentagonocyclicus ivanovi Yeltyschewa and Dubatolova *in* Dubatolova, Yeltyschewa and Modzalevskaya, 1967 = *Mediocrinus ivanovi*

Pentagonocyclicus jacundus Dubatolova, 1964 = *Salairocrinus jucundus*

Pentagonocyclicus jiangsuensis Mu and Lin, 1983, p. 352, Pl. 130, figs. 7-8. Webster, 1988, p. 203.
Early Ordovician, Majagou Group. China, Jiangsu Province

Pentagonocyclicus jiawangensis Mu and Lin, 1983, p. 351, Pl. 130, fig. 3.
Ordovician, Darriwiliian, Majagou Group. China, Jiangsu Province

Pentagonocyclicus jucundus Dubatolova, 1964 = *Salairocrinus jucundus*

Pentagonocyclicus kangilensis Yeltyschewa and Stukalina, 1973 = **Popekocrinus kangilensis*

Pentagonocyclicus kegelensis Yeltyschewa, 1966 = **Virucrinus kegelensis*

Pentagonocyclicus kisilensis Yeltyschewa and Milicina *in* Milicina, 1977a, p. 148, Pl. 57, Figs. 3-4, 8; Fig. 34. Webster, 1986, p. 373.
Late Silurian, Early Devonian, Vizhaich Horizon, Toshem Horizon. Russia, Ural Mountains

Pentagonocyclicus koejimensis Yeltyschewa and Stukalina *in* Stukalina, 1973, p. 50, Pl. 6, fig. 12. Webster, 1977, p. 212.
Early Permian. Russia, Transbaikal

Pentagonocyclicus kounradensis Sisova, 1960, p. 57 (*nomen nudum*). Webster, 1973, p. 308.
Mississippian, Tournaisian. Kazakhstan

Pentagonocyclicus kuangsinensis Dubatolova and Shao, 1959 = *Floricyclus kuangsinensis*

Pentagonocyclicus aff. *kuangsiensis* Dubatolova and Shao, 1959. Xu, Shan, and Chang, 1962, p. 120, Pl. 1, figs. 5a-b.
Mississippian, Huaitoutala Formation. China, Qinghai

Pentagoncyclicus legibilis Milicina, 1973, p. 20, Pl. 4, figs. 1-3; Fig. 3. Webster, 1993, p. 179.
Silurian, Wenlockian, Elkin and Isov Horizons. Russia, Middle Ural Mountains

Pentagonocyclicus lalmonti Donovan Fearnhead, Claarkson and Donovan, 2011. Donovan et al., 2012, p. 228, Pl. 60.
Silurian, Llandoveian, (Late Telchian): United Kingdom, Scotland

Pentagonocyclicus lenitus Stukalina, 1960, p. 101, Fig. 2. Webster, 1973, p. 308.
Silurian, late Llandoverian, *Pentamerus longiseptatus* Biozone. Kazakhstan, Chingiz Mountains

Pentagonocyclicus lenticularis Stukalina, 1961 = **Tolenicrinus lenticularis*

Pentagonocyclicus lesnikovae Yeltyschewa, 1964 = *Sokolovicrinus lesnikovae*

Pentagonocyclicus levidensis Dubatolova, 1964 = *Haplotetocrinus levidensis*

Pentagonocyclicus ligatus (Quenstedt, 1876) = *Aporretocrinus ligatus*

Pentagonocyclicus limbatus Schewtschenko, 1971, p. 23, Pl. 4, fig. 15; Fig. 28. Webster, 1977, p. 212.
Silurian, middle Llandoverian. Russia, Zeravshan-Gissar Mountain Region

Pentagonocyclicus magniligamentus Donovan, 1995b, p. 144, Pl. 24, figs. 5, 7.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Pentagonocyclicus magnus Tujutjan, 1972, p. 47, Figs. 1, nos. 1-2; Fig. 2, nos. a-b.
Late Ordovician, Ulkuntas Horizon. Southern Kazakhstan

Pentagonocyclicus maltus Dubatolova, 1964 = *Mediocrinus maltus*

Pentagonocyclicus meditatus Yeltyschewa *in* Modzalevskaya, 1967, Pl. 6, fig. 23 (*nomen nudum*). Yeltyschewa, 1969, p. 165, Pl. 59, fig. 1. Webster, 1973, p. 309. Webster, 1977, p. 212.
Devonian, Givetian - early Frasnian, Oldoi Suite. Russia, Upper Amur Basin

Pentagonocyclicus mirandus (Yeltyschewa *in* Dubatolova and Shao, 1959) = *Arenariocrinus mirandus*

Pentagonocyclicus monile (Eichwald, 1856) = *Dianthicoeloma monile*

Pentagonocyclicus monocostatus Stukalina, 1961 = *Costatocrinus bicostatus*

Pentagonocyclicus multicius Dubatolova, 1964 = *Calleocrinus multicius*

Pentagonocyclicus mundus Dubatolova, 1964 = *Stenocrinus mundus*

Pentagonocyclicus muschketowi Schewtschenko, 1964 = **Muschketowicrinus muschketowi*

Pentagonocyclicus nieczlawiensis Yeltyschewa, 1968, p. 45, Pl. 4, figs. 13-16. Webster, 1973, p. 309
Silurian, Borschov Horizon. Russia, Podolia

Pentagonocyclicus novellus Sisova, p. 57 (*nomen nudum*). Webster, 1973, p. 309
Mississippian, Tournaisian. Kazakhstan

Pentagonocyclicus obscurus Dubatolova, 1964 = *Stenocrinus obscurus*

Pentagonocyclicus observabilis Dubatolova, 1964 = *Tomeocrinus observabilis*

Pentagonocyclicus obstupendus Dubatolova, 1964 = *Craptocrinus obstupendus* = *Graptocrinus obstupendus*

Pentagonocyclicus occultus Dubatolova, 1964, p. 73, Pl. 9, fig. 12. Webster, 1973, p. 309.
Early Devonian. Russia, Kuznetz Basin

Pentagonocyclicus oldoicus Yeltyschewa and Dubatolova, 1960 = *Oldojicrinus oldoicus*

Pentagonocyclicus opertus Dubatolova, 1964, p. 73, Pls. 9, fig. 13; 10, figs. 1-3: Fig. 10. Webster, 1973, p. 309.
Devonian, Eifelian. Russia, Kuznetz Basin

Pentagonocyclicus ordinaris Yeltyschewa and Dubatolova *in* Dubatolova and Yeltsychewa, 1969, p. 71, Pl. 16, figs. 10-14. Webster, 1977, p. 213.
Mississippian. Russia, Armenia

Pentagonocyclicus ornatus Mu and Lin, 1983, p. 351, Pl. 130, figs. 1-2. Webster, 1988, p. 203.
Middle Ordovician, Darriwilian, Majagou Group. China, Jiangsu Province

Pentagonocyclicus ostaschkini Skoropisceva, 1969, p. 41, Pl. 1, fig. 7. Webster, 1977, p. 213.
Pennsylvanian (C3). Russia, Verkhoyane

Pentagonocyclicus ovoideus Yeltyschewa and Dubatolova *in* Dubatolova and Yeltyschewa, 1969, p. 70, Pl. 16, figs. 6-7. Webster, 1977, p. 213.
Mississippian. Russia, Armenia

Pentagonocyclicus panxiensis Mu and Wu, 1974, p. 247, Pl. 118, figs. 13-14. Webster, 1986, p. 374.
Middle Devonian, Huaning Group, Po'hsi Formation. China, Yunnan Province

Pentagonocyclicus paragaudius Dubatolova, 1964 = *Stenocrinus paragaudius*

Pentagonocyclicus partitus Yeltyschewa, 1960 = *Particrinus partitus*

Pentagonocyclicus patellus Donovan, 1995b, p. 144, Pl. 25, figs. 4-5
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

Pentagonocyclicus paucus Dubatolova, 1964 = *Schyschcatocrinus paucus*

Pentagonocyclicus pentaporus (Eichwald, 1860), Yeltyschewa, 1960 = *Dianthicoeloma pentaporus* = *Babanicrinus pentaporus*

Pentagonocyclicus pentaporus var. *tuberculata* Yeltyschewa, 1964 = *Dianthicoeloma pentaporus* var. *tuberculata* = *Babanicrinus pentaporus* var. *tuberculata*

Pentagonocyclicus persimilis Dubatolova, 1964 = *Mediocrinus persimiliis*

Pentagonocyclicus petschoraensis Yeltyschewa and Skoropisceva *in* Skoropisceva, 1969, p. 42, Pl. 4, fig. 1. Webster, 1977, p. 213.
Middle Carboniferous - Late Permian. Russia, Verkhoyane, Taymyr, Spitzbergen, Nova Zemlya

Pentagonocyclicus portlocki Donovan, 1995b, p. 144, Fig. 45, nos. A-B.

Ordovician, Katian (Ashgillian), Killey Bridge Formation. United Kingdom

Pentagonocyclicus primitivus Schewtschenko, 1964, p. 16, Pls. 2, fig. 8; 3, fig. 6. Schewtschenko, 1968a, p. 279, Pl. 66, fig. 1; Fig. 30. Schewtschenko, 1971, p. 22, Pl. 3, fig. 7; Fig. 25. Webster, 1973, p. 309. Webster, 1977, p. 213.
Early Silurian, Llandoverian-Wenlockian. Russia, Tien Shan Mountains, Tadzhikstan, Zeravashan-Gissar Mountain Region

Pentagonocyclicus primitivus Milicina, 1973 (*non* Schewtschenko, 1964) = *Dastaricrinus primitivus*

Pentagonocyclicus priscus Stukalina, 1973 = **Priscusicrinus priscus*

Pentagonocyclicus profatilovi Skoropisceva, 1969, p. 39, Pl. 3, figs. 5-6 (typographical error as *P. profatilivi* on plate explanation). Webster, 1977, p. 213.
Middle Carboniferous - Early Permian. Russia, Verkhoyane

Pentagonocyclicus pulverlus Dubatolova and Shao, 1959 = *Floricyclus pulverlus*

Pentagonocyclicus qilianshanensis Shao and Chang *in* Xu, Shan, and Chang, 1962, p. 122, Pl. 2, figs. 3a-b.
Middle Carboniferous, upper part of Keluke Group. China, Qinghai

Pentagonocyclicus qinghaiensis Shao and Chang *in* Xu, Shan, and Chang, 1962, p. 122, Pl. 2, figs. 2a-b.
Middle Carboniferous, lower part of Keluke Group. China, Qinghai

Pentagonocyclicus rarispinatus Sisova, 1988, p. 154, Pl. 1, figs. 10a-10b. Webster, 1993, p. 179.
Devonian, Famennian, Sultsiferovii Horizon, Ustkaragandin Layer. Kazakhstan

Pentagonocyclicus cf. *recensus* Dubatolova and Chang (MS) *in* Xu, Shan, and Chang, 1962, p. 121, Pl. 2, figs. 1a-d.
Middle Carboniferous, upper part of Keluke Group. China, Qinghai

Pentagonocyclicus rimosus Schewtschenko, 1966, p. 167, Pl. 5, figs. 9-11, 17; Fig. 39. Webster, 1973, p. 310. Milicina, 1977a, p. 147, Pls. 52, figs. 1-9; 53, figs. 1-2. Webster, 1986, p. 374.
Crotalocrinites baschkiricus Yakovlev, 1949, Pl. 1, fig. 3 only. Milicina, 1977a, p. 147. Webster, 1986, p. 374.
Early Devonian, Kshtut Horizon; Sarainin Horizon. Russia, Ural Mountains
Early Devonian. Uzbekistan, Tien Shan Mountains

Pentagonocyclicus robustissimus (Barrande, 1887). Milicina, 1977a, p. 147, Pl. 59, fig. 7, Fig. 33. Webster, 1986, p. 374.
Entrochus robustissimus Barrande, 1887. Milicina, 1977a, p. 148. Webster, 1986, p. 374.
Early Devonian, Vizhaich Horizon, Toshem Horizon. Russia, Ural Mountains

Pentagonocyclicus rugatus Stukalina, 1961 = *Mediocrinus rugatus*

Pentagonocyclicus rugosus (Yeltyschewa and Schewtwchenko, 1960) = *Graphosterigma rugosus*

Pentagonocyclicus saepedentatus Militsina, 1970, p. 103, Pl. 28, figs. 8-9; Fig. 12 (fig. 9b is mislabeled as 6b on Pl. 28). Webster, 1977, p. 213.
Early-Middle Devonian. Russia, central Urals

Pentagonocyclicus salebrosus Stukalina, 1961 = *Tolenicrinus salebrosus*

Pentagonocyclicus saragaschensis Yeltyschewa, 1955b, p. 36, Pl. 15, fig. 4. Webster, 1973, p. 310.
Devonian. Russia, Minusin Trough

Pentagonocyclicus scabrum Schewtschenko, 1966, p. 167, Pl. 5, figs. 14-16; Fig. 38. Webster, 1973, p. 310.
Late Silurian, Tiverian - Devonian, Eifelian. Uzbekistan, Tien Shan Mountains

Pentagonocyclicus schansinicus Dubatolova and Shao, 1959 = *Unilineatocrinus schansinicus*

Pentagonocyclicus aff. *schansinicus* Dubatolova and Shao, 1959. Xu, Shan, and Chang, 1962, p. 121, Pl. 1, figs. 9a-b.
Mississippian, Huaitoutala Formation. China, Qinghai

Pentagonocyclicus sectus Schewtschenko, 1971 = **Turuchanicrinus sectus*

Pentagonocyclicus serratus Webster, 1973 = *Cyclopentagonalis serratus* = *Baltocrinus serratus*

Pentagonocyclicus simplex Yeltyschewa, 1955 = *Tjeecrinus simplex*

Pentagonocyclicus singularis Dubatolova, 1964 = **Glyphidocrinus singularis*

Pentagonocyclicus spinatus Donovan, 1995b, p. 145, Pl. 20, fig. 2.
Ordovician, Katian (Ashgillian, Keisley Limestone. United Kingdom
)
Pentagonocyclicus stellatus (Eichwald, 1860). Yeltyschewa, 1964a, p. 71, Pls. 3, figs. 15-17; 4, fig. 24. Webster, 1973, p. 310.
Platycrinus stellatus Eichwald, 1860, p. 603, Pl. 31, figs. 21a-21d. Eichwald, 1861, p.
117. Bassler and Moodey, 1943, p. 632. Yeltyschewa, 1964a, p. 71. Webster, 1973, p. 316. (Not a *Platycrinites*, GDW, 2003)
Ordovician, Darriwilian, *Orthoceras* Limestone. Estonia

Pentagonocyclicus stellatus Dubatolova and Shao, 1959 (non Eichwald, 1860), p. 44, Pl. 1, fig. 6. Webster, 1973, p. 310.
Early-Middle Carboniferous. China, Kwangtung Province

Pentagonocyclicus stellatus Donovan, 1995b (non Eichwald, 1860), p. 146, Fig. 46, no. A.
Ordovician, Hernantian (Ashgillian), Glyn Formation. United Kingdom

Pentagonocyclicus cf. *stellatus* (Eichwald, 1860). Hynda, 1980, p. 67, Pl. 1, fig. 4. Webster, 1986, p. 374.
Ordovician, Darriwilian (Llanvirnian), Kunda Horizon, Azeris Horizon. Estonia; Russia, Volyn

Pentagonocyclicus cf. *stellatus* (Eichwald, 1860). Hynda, 1986, p. 106, Pl. 17, fig. 6. Webster, 1993, p. 179.
Ordovician, Darriwilian, Kunda Horizon. Estonia

Pentagonocyclicus subconcentricus Stukalina, 1973 = *Burovicrinus subconcentricus*

Pentagonocyclicus subhelenae Yeltsychewa, 1975, p. 135, Pl. 2, figs. 25-26. Gluchowski, 1977, p. 309, Fig. 3. Webster, 1986, p. 374.
Early Silurian, Kitaigorod Horizon, Demshin Layer. Russia, Podolia

Pentagonocyclicus submersus Dubatolova, 1968 = *Haplotetocrinus submersus*

Pentagonocyclicus suhonaensis Yeltyschewa and Skoropisceva *in* Skoropisceva, 1969, p. 40, Pl. 3, fig. 7. Webster, 1977, p. 214.
Late Permian. Russia, Sitzbergen, Russian Platform

Pentagonocyclicus sulcatus Schewtschenko, 1971, p. 23, Pl. 5, figs. 5-9; Fig. 27. Webster, 1977, p. 214.
Silurian, middle Llandoverian. Uzbekistan, Zeravshan-Gissar Mountain Region

Pentagonocyclicus sultansevi Yeltyschewa and Skoropisceva *in* Skoropisceva, 1969, p. 39, Pl. 3, fig. 4. Webster, 1977, p. 214.
Middle Carboniferous. Russia, Northern Verkhoyane, Orulgan

Pentagonocyclicus superadornatus Schewtschenko, 1964, p. 16, Pl. 3, fig. 1. Webster, 1973, p. 310.
Silurian, Llandoverian. Tadzhikstan

Pentagonocyclicus tainaensis Yeltyschewa, 1968, p. 44, Pl. 5, figs. 3-6. Webster, 1973, p. 310.
Silurian, Borschov Horizon. Russia, Podolia

Pentagonocyclicus tajmirensis Yeltyschewa and Stukalina, 1963 = *Tajmirocrinus tajmirensis*

Pentagonocyclicus tenuitas Yeltyschewa and Stukalina, 1963 = *Dentiferocrinus tenuitas*

Pentagonocyclicus textus Dubatolova, 1964 = *Salairocrinus textus*

Pentagonocyclicus tianschanicus Schewtschenko, 1966, p. 163, Pl. 5, figs. 4-6; Fig. 34. Webster, 1973, p. 311.
Devonian, Givetian, Pandzhrut Horizon. Uzbekistan or Tadzhikstan, Tien Shan Mountains

Pentagonocyclicus tipariensis Yeltyschewa and Dubatolova, 1967, p. 54, Pl. 6, figs. 2-3. Yeltyschewa, 1969, p. 166, Pl. 59, figs. 4-6. Webster, 1973, p. 311. Webster, 1977, p. 214.
Devonian, Givetian-early Frasnian. Russia, Upper Amur Basin

Pentagonocyclicus tricostatus Stukalina, 1961 = *Costatocrinus bicostatus*

Pentagonocyclicus triformis Dubatolova and Shao, 1959, p. 44, Pl. 1, fig. 8. Webster, 1973, p. 311.
Mississippian, Viséan. China, Hunan Province

Pentagonocyclicus cf. *tristis* Dubatolova and Chang (MS) *in* Xu, Shan, and Chang, 1962, p. 121, Pl. 2, figs. 7a-b.
Mississippian, Huaitoutala Formation. China, Qinghai

Pentagonocyclicus turriculatus Donovan, 1995b, p. 146, Pl. 24, fig. 6.
Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Pentagonocyclicus uniformis Stukalina, 1973 = **Uniformicrinus uniformis*

Pentagonocyclicus uniformis Mu and Lin, 1983 (*non* Stukalina, 1973), p. 352, Pl. 130, fig. 9. Webster, 1988, p. 203.
Ordovician, Darriwilian, Majagou Group. China, Jiangsu Province

Pentagonocyclicus vallatus Stukalina, 1960, p. 100, Fig. 1. Webster, 1973, p. 311.
Silurian, Llandoverian, *Pentamerus longiseptatus* Biozone. Kazakhstan, Chingiz Mountains

Pentagonocyclicus vastus Yeltyschewa and Dubatolova, 1960 = *Mediocrinus vastus* = *Vasticrinus vastus*

Pentagonocyclicus verchoyanicus Skoropisceva, 1969, p. 42, Pl. 2, figs. 5-6. Webster, 1977, p. 214.
Middle Carboniferous - Early Permian. Russia, Verkhoyane

Pentagonocyclicus virgalensis Stukalina, 1973 = *Floricyclus virgalensis*

Pentagonocyclicus vormsiensis Yeltyschewa, 1975 = *Cyclopagoda vormiensis* = *Crenatocrinus vormsiensis*

Pentagonocyclicus vulgaris Yeltyschewa, 1955b, p. 36, Pl. 15, fig. 1. Webster, 1973, p. 311.
Devonian. Russia, Minusin Trough

Pentagonocyclicus (col) sp. A Donovan, 1994, p. 77, Fig. 8, no. D (typographical error as *Penta-gonocyclicus*). Donovan, 1995a, p. 14, Fig. 2, no. d.
Ordovician, Hirnantian, Glyn Formation. United Kingdom, Wales

Pentagonocyclicus (col) sp. B Donovan, 1994, p. 77, Fig. 8, no. F. Donovan, 1995a, p. 14, Fig. 2, no. f.
Ordovician, Hirnantian, Glyn Formation. United Kingdom, Wales

Pentagoncyclicus sp. A Donovan, 1995b, p. 146, Pl. 20, fig. 3.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Pentagoncyclicus sp. B Donovan, 1995b, p. 146, Pl. 20, fig. 4.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Pentagoncyclicus sp. C Donovan, 1995b, p. 147, Pl. 20, fig. 5.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Pentagoncyclicus sp. D Donovan, 1995b, p. 147, Pl. 18, fig. 12.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Pentagoncyclicus sp. E Donovan, 1995b, p. 147, Pl. 18, fig. 13.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

Pentagoncyclicus sp. F Donovan, 1995b, p. 147, Pl. 18, figs. 10, 14.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

Pentagoncyclicus sp. G Donovan, 1995b, p. 147, Pl. 25, fig. 2.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

Pentagoncyclicus sp. H Donovan, 1995b, p. 148, Pl. 18, fig. 11.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

Pentagoncyclicus sp. I Donovan, 1995b, p. 148, Fig. 46, nos. B-D.
Ordovician, Katian (Ashgillian), Sholeshook Limestone. United Kingdom

Pentagoncyclicus sp. J Donovan, 1995b, p. 149, Fig. 46, no. E.
Ordovician?, Darriwilan, “Llandeilo Flags”. United Kingdom

Pentagoncyclicus sp. K Donovan, 1995b, p. 149, Fig. 44, nos. M-O.
Ordovician, Katian (Caradocian), Onnian Dufton Shale: United Kingdom

Pentagoncyclicus sp. L Donovan, 1995b, p. 149, Fig. 44, no. P.
Ordovician, Katian (Caradocian), Onnian Dufton Shale. United Kingdom

Pentagoncyclicus sp. M Donovan, 1995b, p. 149, Fig. 44, nos. Q-R.
Ordovician, Hirnantian (Ashgillian), Glyn Formation. United Kingdom

Pentagonocyclicus spp.
Mu and Wu, 1975, p. 312, Pl. 1, figs. 17-20. Webster, 1986, p. 374.
Middle Ordovician, upper part of Chaitsun Group. China, Nyalomu Hsien
Mu and Lin, 1982, p. 209, Pl. 1, figs. 13-14; Fig. 3. Webster, 1988, p. 203.
Permian: China, Tibet
Donovan and Wright, 1995, p. 235, Figs. 2, no. A; 4, nos. A-C, G.
Ordovician, Katian (Ashgillian), beds above Keisley Limestone. United Kingdom
Lewis, Donovan, and Sawford, 2003, p. 315, Fig. 3, nos. m, p.
Mississippian, Holkerian, Clifton Down Limestone. United Kingdom
Donovan and Lewis, 2010. Donovan et al., 2012, p. 229.
Cladid sp. indet. Donovan and Lewis, 2010, p. 12, Fig. 2. Donovan et al., 2012, p. 229.
Silurian, Wenlockian (Homerian), ?Much Wenlock Limestone Formation. United Kingdom, Scotland,

Pentagonocyclinus cf. *granulosus* (Yeltyschewa and Stukalina, 1977) =
Pentagonocyclicus cf. *granosus*

Pentagonocyclitus observabilis (Dubatolova, 1964) = *Tomeocrinus ovservabilis*

PENTAGONOCYCLOPA Moore, 1939. *Nomen vetitum* **P. dispar* Moore, 1939.
Moore, 1939b, p. 193. Jeffords *in* Moore and Teichert, 1978, p. T937. Donovan, 1995b, p. 134.
Recognized number of named columnal species: 2 species. 1 Ordovician, Darriwilian; 1 Pennsylvanian, Missourian
Pennsylvanian, Missourian. United States, Kansas, Texas

**Pentagonocyclopa dipar* Moore, 1939b, p. 193, Pl. 1, figs. 4-6.
Pennsylvanian, Missourian, Checkerboard? Limestone; ?lower part of Canyon Beds. United States, Kansas, Texas

Pentagonocyclopa cf. *P. dispar* (Moore, 1939). Walter, 1953, p. 701, Pl. 73, figs. 15-17. Webster, 1973, p. 311.
Permian, Rustler Formation. United States, Texas

Pentagonocyclopa hughesi Donovan, 1995b, p. 135, Pl. 18, figs. 8-9.
Ordovician, Darriwiliian (late Llandeilian), Ffairfach Group. United Kingdom

Pentagonocyclopa? sp. A Donovan, 1995b, p. 135, Fig. 44, no. A.
Ordovician, Darriwiliian (late Llandeilian), Ffairfach Group. United Kingdom

Pentagonocyclopa? sp. B Donovan, 1995b, p. 135, Fig. 44, nos. B-D.
Ordovician, Darriwilian (early Llandeilian), Middleton Formation, Meadowtown Member. United Kingdom

Pentagonocyclopa? sp. C Donovan, 1995b, p. 135, Fig. 44, no. E.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonocyclopa? sp. D Donovan, 1995b, p. 136, Pl. 20, fig. 1.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

PENTAGONOCYCLOPA Wright, 1983 (*non* Moore, 1939). *Nomen nudum.*
Wright, 1983, p. 595, Unnum. Fig. Webster, 1988, p. 203.

Pentagonocyclopa 1 Wright, 1983, p. 595, Unnum. Fig. Webster, 1988, p. 203.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonocyclopa 2 Wright, 1983, p. 595, Unnum. Fig. Webster, 1988, p. 203.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonocyclopa 2a Wright, 1983, p. 595, Unnum. Fig. Webster, 1988, p. 203.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonocyclopa 3 Wright, 1983, p. 595, Unnum. Fig. Webster, 1988, p. 203.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonocyclopa 4 Wright, 1983, p. 595, Unnum. Fig. Webster, 1988, p. 204.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonocyclopa 5 Wright, 1983, p. 595, Unnum. Fig. Webster, 1988, p. 204.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonocyclopa 6 Wright, 1983, p. 595, Unnum. Fig. Webster, 1988, p. 204.
Ordovician, Katian (Caradocian). United Kingdom

PENTAGONOELLIPTICUS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 3F. Yeltyschewa, 1959, p. 233, Fig. 1, no. 3F. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 3F. Dubatolova, 1964, p. 9, Fig. 1, no. 3F. Webster, 1973, p. 311. Jeffords *in* Moore and Teichert, 1978, p. T936.
Theoretical genus, no known species

PENTAGONOELLIPTICUS Donovan, 1989 (*non* Yeltyschewa, 1956). **P. ellipticus* Donovan, 1989.
Donovan, 1989d, p. 84. Webster, 1993, p. 179.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian (Caradocian). United Kingdom

**Pentagonoellipticus ellipticus* Donovan, 1989d, p. 84, Pl. 8, figs. 6-7, 9-10. Webster, 1993, p. 179.

Ordovician, Katian (Caradocian), Craighead Limestone. United Kingdom

Pentagonoellipticus? sp. Donovan, 1989d, p. 85, Pl. 9, figs. 8, 11. Webster, 1993, p. 179.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone Formation. United Kingdom

PENTAGONOHEXAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 3D. Yeltyschewa, 1959, p. 233, Fig. 1, no. 3D. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 3D. Dubatolova, 1964, p. 9, Fig. 1, no. 3D. Webster, 1973, p. 311.
Theoretical genus, no known species

PENTAGONOMISCHUS Moore and Jeffords, 1968. **P. plebeius* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 53. Webster, 1973, p. 311. Webster, 1988, p. 204.
Recognized number of named columnal species: 1 Mississippian, Serpukhovian species
Mississippian Serpukhovian (Chesterian). United States
Mississippian. Tournaisian. Poland

**Pentagonomischus plebeius* Moore and Jeffords, 1968, p. 53, Pl. 8, figs. 1-8. Webster, 1973, p. 311. Gluchowski, 1981b, p. 40, Pl. 4, fig. 12. Webster, 1988, p. 204.
Mississippian, Serpukhovian (Chesterian), Paint Creek Formation. United States, Illinois
Mississippian, Tournaisian. Poland

Pentagonomischus sp. Martínez, Martínez, and Montero, 1987, p. 412, Pl. 1, fig. 14.
Early Mississippian, Patlanoaya Formation. Mexico

“Pentagonopentagonalic columnal” species Donovan, 1995b, p. 156, Pl. 19, fig. 9.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

PENTAGONOPENTAGONALIS Yeltyschewa, 1955. *Nomen vetitum*
Yeltyschewa, 1955a, p. 42. Yeltyschewa, 1956, p. 42, Fig. 1, no. 3C. Yeltyschewa, 1959, p. 233, Fig. 1, no. 3C. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 3C. Dubatolova, 1964, p. 9, Fig. 1, no. 3C. Schewtschenko, 1971, p. 15. Webster, 1973, p. 311. Webster, 1977, p. 215. Jeffords *in* Moore and Teichert, 1978, p. T934. Stukalina, 1986, p. 74, 79. Webster, 1986, p. 375. Donovan and Harper, 1993, p. 674. Webster, 1993, p. 180. Donovan, 1995b, p. 151.
Recognized number of named columnal species: 17 species. 13 Ordovician, 6 Darriwilian, 1 Darriwilian – Sandbian, 3 Sandbian, 1 Katian, 1 Middle Ordovician, uncertain, 1 Ordovician uncertain; 3 silurian, 2 Llandoverian, 1 Late Silurian; 1 Middle carboniferous
Ordovician - Silurian. Russia
Middle Ordovician. Estonia,
Middle – Late Ordovician. United Kingdom
Middle Ordovician, Middle Carboniferous. China

Silurian, Llandoverian. Tadzhistan or Uzbekistan
Late Silurian. Kazakhstan

Pentagonopentagonalis ajnasuensis Stukalina, 1961 = *Facetocrinus ajnasuensis*

Pentagonopentagonalis angustilobatus Yeltyschewa *in* Schewtschenko, 1964 = *Bystrowicrinus quinquelobatus*

Pentagonopentagonalis annularius Schewtschenko, 1971, p. 17, Pl. 4, fig. 12; Fig. 19. Webster, 1977, p. 215.
Silurian, middle Llandoverian. Uzbekistan or Tadzhistan, Zeravshan-Gissar Mountain Region

Pentagonopentagonalis antiquus (Eichwald, 1860) = *Baltocrinus antiquus*

Pentagonopentagonalis artificiosus Yeltyschewa, 1964 = *Artificiosocrinus artificiosus*

Pentagonopentagonalis aspectabilis Schewtschenko, 1971 = *Squameocrinus integrum*

Pentagonopentagonalis bilobatus Yeltyschewa, 1960 = *Bystrowicrinus bilobatus*

Pentagonopentagonalis bondarewi Yeltyschewa and Stukalina, 1963, p. 46, Pl. 1, figs. 13-17; Fig. 14 (misspelled as *P. bondarevi* in text and plate explanations). Webster, 1973, p. 312.
Ordovician, Sandbian. Russia, Taymyr

Pentagonopentagonalis borealis (Yeltyschewa, 1955) = *Crotalocrinites? borealis*

Pentagonopentagonalis bylfuracus Schewtschenko, 1971, p. 16, Pl. 4, figs. 1-3; Fig. 17. Webster, 1977, p. 215. Webster, 1993, p. 180.
Pentagonocyclicus bylfuracus Milicina, 1987, p. 17, Pl. 7, fig. 5 (typographical error as *Pentagonociclicus* on plate explanation and as *P. byefuraeus* p. 17). Webster, 1993, p. 180.
Ordovician, Katian (Ashgillian); - Silurian, middle Llandoverian, Rassokhin Horizon, Palnikshor Stratum. Russia, Zeravshan-Gissar Mountain Region, Northern Urals

Pentagonopentagonalis catagraphus Stukalina, 1960 = *Uzenicrinus catagraphus*

Pentagonopentagonalis collariformis Yeltyschewa, 1964a, p. 68, Pl. 1, figs. 21-22. Webster, 1973, p. 312.
Ordovician, Darriwilian. Estonia

Pentagonopentagonalis compositus Yeltyschewa, 1955 = *Compositocrinus compositus*

Pentagonopentagonalis ex. gr. *compositus* Yeltyschewa, 1955. Mu and Wu, 1975, p. 310, Pl. 1, figs. 12-16. Webster, 1986, p. 375.

Ordovician, Darriwilian, upper part of Chaitsun Group. China, Ting-jih Hsien

Pentagonopentagonalis compositus Schewtschenko, 1964, (*non* Yeltyschewa, 1955) = *Bystrowicrinus quinquelobatus*

Pentagonopentagonalis comptus Yeltyschewa, 1955 = **Comptocrinus comptus*

Pentagonopentagonalis comptus Yeltyschewa, 1955 = *Iocrinus comptus*

Pentagonopentagonalis comptus Myagkova *et al.*, 1963 = *Bazaricrinus parvulus*

Pentagonopentagonalis ex. gr. *comptus* Myagkova *et al.*, 1963 = *Bazaricrinus parvulus*

Pentagonopentagonalis concinnus Yeltyschewa and Stukalina, 1963, p. 43, Pl. 1, figs. 1-3; Fig. 12. Webster, 1973, p. 312.
Ordovician, Sandbian. Russia, Vaigach

Pentagonopentagonalis cinerus Donovan, 1995b, p. 151, Fig. 48, nos. A-F.
Ordovician, Darriwilian (late Llandeilian), calcareous shales. United Kingdom

Pentagonopentagonalis dauritschensis Schewtschenko, 1964 = *Dentiferocrinus dauritschensis*

Pentagonopentagonalis dentiferus Yeltyschewa, 1955 = **Dentiferocrinus dentiferus*

Pentagonopentagonalis dividuus Yeltyschewa, 1955 = *Dentiferocrinus dividuus* = *Dentiferocrinus dauritschensis*

Pentagonopentagonalis dividuus Schewtschenko, 1971 = *Pentagonopentagonalis dauritschensis*

Pentagonopentagonalis facetus Stukalina, 1961 = *Facetocrinus facetus*

Pentagonopentagonalis floreus var. *gracila* Yeltyschewa and Dubatolova, 1961 = *Anthinocrinus floreus gracilis* = *Ononicrinus gracilis*

Pentagonopentagonalis fragilis Yeltsychewa, 1955a, p. 43, Pl. 23, fig. 6. Yeltyschewa, 1960, p. 9, Pl. 2, fig. 14. Webster, 1973, p. 312. Volyn, 1980, p. 68, Pl. 1, figs. 1-2. Webster, 1986, p. 375.
Ordovician, Darriwilian – Sandbian (Caradocian), Mangazeyan Horizon; Idaver Horizon. Russia, Volyn

Pentagonopentagonalis ex. gr. *fragilis* Yeltsychewa, 1955. Mu and Wu, 1975, p. 311, Pl. 1, fig. 10. Webster, 1986, p. 376.
Ordovician, Darriwilian, upper part of Chaitsun Group. China, Nyalomu Hsien

Pentagonopentagonalis grettonensis Donovan, 1995b, p. 153, Fig. 49, nos. A-B.

Ordovician, Katian (Cardovician). United Kingdom

Pentagonopentagonalis hrustalnjiensis Yeltyschewa and Stukalina, 1963 = *Ramulicrinus hrustalnjensis = Lunulacrinus hrustalnjiensis*

Pentagonopentagonalis integrum Schewtschenko, 1971 = *Squameocrinus integrum*

Pentagonopentagonalis kalginensis Yeltyschewa, 1968 = **Kalgacrinus kalgiensis*

Pentagonopentagonalis kaljtschanensis Yeltyschewa, 1968, p. 125, Pl. 23, fig. 7.
Webster, 1988, p. 204.
Ordovician, Darriwilian, Tarniuryakh Suite. Russia, Selennyakhskom Mountain

Pentagonopentagonalis klunnikowi Schewtschenko, 1964 = *Klunnikowicrinus klunnikowi*

Pentagonopentagonalis kokajgirensis Stukalina, 1960 = *Chingizocrinus kokajgirensis*

Pentagonopentagonalis lobatus (Eichwald, 1860) = *Baltocrinus lobatus* = *Cyclopentagonalis lobatus*

Pentagonopentagonalis magnus Donovan, 1995b, p. 153, Fig. 46, nos. J-K.
Ordovician, United Kingdom

Pentagonopentagonalis mirabilis Yeltyschewa, 1955 = **Mirabilicrinus mirabiis*

Pentagonopentagonalis morcocaensis Yeltyschewa, 1960 = **Morkokaecrinus morcocaensis*

Pentagonopentagonalis morkokaensis Yeltyschewa, 1980 = **Morkokacrinus morcocaensis*

Pentagonopentagonalis multipartitus Yeltyschewa and Stukalina, 1963 (part) = *Particrinus multipartitus*

Pentagonopentagonalis multipartitus Yeltyschewa and Stukalina, 1963 (part) = *Particrinus partitus*

Pentagonopentagonalis multipartitus Yeltyschewa and Stukalina, 1963 (part) = *Lobocrinus lobus*

Pentagonopentagonalis nyalamensis Mu and Wu, 19705, p. 310, Pl. 1, figs. 1-5.
Webster, 1986, p. 376.
Ordovician, Darriwilian, upper part of Chaitsun Group. China, Nyalomu Hsien

Pentagonopentagonalis oradovskajae Yeltyschewa, 1968 = *Puchellicrinus oradovskajae*

Pentagonopentagonalis papillaris Yeltyschewa, 1960, p. 13, Pl. 5, fig. 7. Webster, 1973, p. 313.
Silurian, Llandoverian. Russia, Siberian Platform

Pentagonopentagonalis privus Yeltyschewa, 1964 = **Squameocrinus privus*

Pentagonopentagonalis probus Stukalina, 1961, p. 36, Pl. 1, fig. 6. Webster, 1973, p. 313.
Late Silurian. Kazakhstan

Pentagonopentagonalis proximus Yeltyschewa and Stukalina, 1963 = *Dentiferocrinus proximus*

Pentagonopentagonalis pulchellus Yeltyschewa, 1968 = **Puchellicrinus pulchellus*

Pentagonopentagonalis quindecemlobatus Yeltyschewa and Stukalina, 1963 = *Catagraphiocrinus quindecemlobatus*

Pentagonopentagonalis quinquelobatus Yeltyschewa, 1955 = *Bystrowicrinus quinquelobatus*

Pentagonopentagonalis cf. *quinquelobatus* Yeltyschewa, 1955. Yeltyschewa, 1968, p. 123, Pl. 43, figs. 9-10. Webster, 1988, p. 204.
Middle Ordovician, Omulev Horizon. Russia, Siberian Platform

Pentagonopentagonalis quinquespinosus Stukalina, 1961 = *Facetocrinus quinquespinosus*

Pentagonopentagonalis ramosus Yeltyschewa and Stukalina, 1963 = **Ramosocrinus ramosus*

Pentagonopentagonalis rariusculus Schewtschenko, 1971 = *Karakolocrinus rariusculus*

Pentagonopentagonalis salebrosus Stukalina, 1965 = *Tolenicrinus salebrosus*

Pentagonopentagonalis stelliformis Xu *in* Xu, Shan, and Chang, 1962, p. 119, Pl. 2, figs. 5a-c.
Middle Carboniferous, Keluke Group. China, Qinghai

Pentagonopentagonalis subpennatus Yeltyschewa, 1968 = *Pennatocrinus subpennatus*

Pentagonopentagonalis tolenensis Stukalina, 1960 = *Tolenicrinus tolenensis*

Pentagonopentagonalis tridens Yeltyschewa, 1955 = *Mirabilicrinus mirabilis*

Pentagonopentagonalis ex. gr. *tridens* Yeltyschewa, 1955. Mu and Wu, 1975, p. 311, Pl. 1, figs. 8-9. Webster, 1986, p. 376.
Ordovician, Darriwilian, upper part of Chaitsun Group. China, Nyalomu Hsien

Pentagonopentagonalis tscherkesovae Yeltyschewa and Stukalina, 1963, p. 40, Pl. 2, fig. 24; Fig. 9. Webster, 1973, p. 313.
Ordovician, Sandbian. Russia, Taymyr

Pentagonopentagonalis tschugaevae Yeltyschewa, 1968 = **Selenjachicrinus tschugaevae*

Pentagonopentagonalis vitreus Stukalina, 1961 = *Medinecrinus vitreus*

Pentagonopentagonalis sp. A Donovan, 1995b, p. 154, Fig. 48, nos. G-H.
Ordovician, Darriwilian (late Llandeilian), Ffairfach Group. United Kingdom

Pentagonopentagonalis sp. B Donovan, 1995b, p. 154, Fig. 48, no. I.
Ordovician, Darriwilian (late Llandeilian), Ffairfach Group. United Kingdom

Pentagonopentagonalis sp. C Donovan, 1995b, p. 154, Pl. 20, figs. 8-9.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Pentagonopentagonalis sp. D Donovan, 1995b, p. 155 Pl. 20, figs. 10-11.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Pentagonopentagonalis sp. E Donovan, 1995b, p. 155, Fig. 48, no. K.
Ordovician, Katian (Ashgillian), Sholeshook Limestone. United Kingdom

Pentagonopentagonalis sp. F Donovan, 1995b, p. 155, Pl. 14, figs. 9, 13-14, 17.
Ordovician, Hirnantian (Ashgillian), High Mains Formation. United Kingdom

Pentagonopentagonalis sp. G Donovan, 1995b, p. 156, Fig. 46, nos. L-M.
Ordovician, Katian (Ashgillian), Sholeshook Limestone. United Kingdom

Pentagonopentagonalis sp. nov. Mu and Wu, 1975, p. 311, Pl. 1, figs. 8-9. Webster, 1986, p. 376.
Ordovician, Darriwilian, upper part of Chaitsun Group. China, Nyalomu Hsien

Pentagonopentagonalis spp.
Mu and Wu, 1975, p. 311, Pl. 1, fig. 11. Webster, 1986, p. 376.
Ordovician, Darriwilian, upper part of Chaitsun Group. China, Nyalomu Hsien
Mu and Lin, 1983, p. 352, Pl. 130, fig. 4. Webster, 1988, p. 205.
Ordovician, Darriwilian, Majagou Group. China, Jiangsu Province
Donovan and Harper, 1993, p. 674, Figs. 2, nos. j-o; 3, no. a.
Ordovician, Hirnantian, High Mains Formation. United Kingdom, Scotland
Donovan, 1993a, p. 14, Fig. 1, no. c.

Ordovician, Hirnantian, High Mains Formation. United Kingdom, Scotland
Donovan, 1994, p. 78, Fig. 9, no. G.
Ordovician, Hirnantian, High Mains Formation. United Kingdom, Scotland

PENTAGONOPENTAGONOPA Wright, 1983. *Nomen nudum*
Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentagonopa 1 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentagonopa 2 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentagonopa 3 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentagonopa 4 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentagonopa 5 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

PENTAGONOPENTASTELLATOPA Wright, 1983. *Nomen nudum.*
Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentastellatopa 1 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentastellatopa 2 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentastellatopa 3 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentastellatopa 4 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

Pentagonopentastellatopa 5 Wright, 1983, p. 596, Unnum. Fig. Webster, 1988, p. 205.
Ordovician, Katian (Caradocian). United Kingdom

PENTAGONOPTERNIX Moore and Jeffords, 1968. **P. linsculptus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 55. Webster, 1973, p. 313.
Recognized number of named columnal species: 2 species. 1 Pennsylvanian, Atokan, Virgilian; 1 Late Permian
Pennsylvanian, Atokan - Virgilian. United States; Mexico

Pentagonopternix borsjiensis (Yeltyschewa and Skoropiscea, 1969). Kurilenko *in* Kurilenko et al., 2002, p. 312, Pl. 105, figs. 9-12.
Late Permian, Antiinsky and Togotusky Horizons. Russia, Far East Transbaikal.

**Pentagonopternix insculptus* Moore and Jeffords, 1968, p. 55, Pl. 9, fig. 10. Webster, 1973, p. 313. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. j (sic) (misspelled as *Pentagonopterix*)
Pennsylvanian, Virgilian, Chaffin Limestone. United States, Texas
Pennsylvanian, Atokan = early late Moscovian, La Joya Formation. Mexico

PENTAGONOSTAURUS Moore and Jeffords, 1968. **P. leptus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 54. Webster, 1973, p. 313. Jeffords *in* Moore and Teichert, 1978, p. T934.
Recognized number of named columnal species: 1 Mississippian, Serpukhovian species
Mississippian, Serpukhovian (Chesteria)n. United States

**Pentagonostaurus leptus* Moore and Jeffords, 1968, p. 54, Pl. 9, figs. 4-5. Webster, 1973, p. 314.
Mississippian, Serpukhovian (Chesterian), Paint Creek Formation. United States, Illinois

PENTAGONOSTIPES Moore and Jeffords, 1968. **P. petaloides* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 52. Webster, 1973, p. 314. Jeffords *in* Moore and Teichert, 1978, p. T934. Le Menn, 1985, p. 123. Webster, 1986, p. 376. Webster, 1988, p. 205. Webster, 1993, p. 180.
Recognized number of named columnal species: 3 Devonian species, 1 Eifelian – Givetian, 2 Givetian
Devonian, Givetian. United States; France
Devonian, Eifelian. Poland

Pentagonostipes? diversiformis Le Menn, 1987b, p. 814, Fig. 3 (*nomen nudum*) no description. Le Menn, 1988b, p. 462, Pl. 54, figs. 23-29; Fig. 3. Webster, 1993, p. 180.
Devonian, Givetian, Blacourt Formation, Griset Member. France

Pentagonostipes minutus Le Menn, 1985, p. 123, Pls. 26, figs. 17-19; 27, figs. 1-2. Webster, 1988, p. 205.
Devonian, Givetian, Kergarvan Formation. France, Armorican Massif

**Pentagonostipes petaloides* Moore and Jeffords, 1968, p. 52, Pl. 8, figs. 14-15. Webster, 1973, p. 314. Ubaghs *in* Moore and Teichert, 1978, p. T77, Fig. 55, no. 1. Gluchowski, 1981b, p. 40, Pl. 2, fig. 15. Webster, 1986, p. 376. Webster,

1988, p. 206. Gluchowski, 2005, p. 321, Fig. 3, no. F; 4, nos. B-D, G-H.
Devonian, Erian,Givetian (Erian), Wanakah Shale. United States, New York
Devonian, late Eifelian, Givetian, Skaly Beds. Poland

PENTAGONOTETRAGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 3B. Yeltyschewa, 1959, p. 233, Fig. 1, no. 3B. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 3B. Dubatolova, 1964, p. 9, Fig. 1, no. 3B. Webster, 1973, p. 311. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

PENTAGONOTRIGONALIS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 3A. Yeltyschewa, 1959, p. 233, Fig. 1, no. 3A. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 3A. Dubatolova, 1964, p. 9, Fig. 1, no. 3A. Webster, 1973, p. 314. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

PENTALOBATOCRINUS Stukalina, 1978. **P. simplex* Stukalina, 1978.
Stukalina, 1978a, p. 161. Stukalina, 1986, p. 73. Webster, 1993, p. 180.
PENTALOBATOCRNUS Stukalina, 1978. Webster, 1986, p. 376 (sic).
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Uzbekistan, Tien Shan

**Pentalobatocrinus simplex* Stukalina, 1978a, p. 161, Pl. 35, fig. 17. Webster, 1986, p. 376. Rakhmonov and Ghobadi Pour, 2008, p. 60, Pl. 107, fig. 14.
Ordovician, Katian (Ashgillian), Archalyk Beds. Uzbekistan, Zeravshan Range

PENTALOBATOCRNUS Stukalina, 1978 = ***PENTALOBATOCRINUS***

PENTALOBOCRINUS Dubatolova, 1975. **P. pentadactylus* Dubatolova, 1975.
Dubatolova, 1975b, p. 51. Webster, 1986, p. 376.
Recognized number of named columnal species: 1 Early Devonian species
Early Devonian. Russia

**Pentalobocrinus pentadactylus* Dubatolova, 1975b, p. 51, Pl. 9, fig. 2; Fig. 4. Webster, 1986, p. 377.
Early Devonian, Krakhal Suite. Northeastern Russia

Pentameric cirriferous runner Donovan, 1986d, p. 60, Pl. 6, figs. 7, 9. Webster, 1993, p. 180.
Ordovician, Katian (Caradocian), Craighead Limestone. Scotland

Pentameric column, *Dendrocrinus?* Brett, 1985a, p. 628, Fig. 3, no. 3. Webster, 1988, p. 206.
Silurian, Gasport Limestone. United States, New York

Pentameric columnal with a pentastellate lumen Donovan, 1985e, p. 21, Fig. 2, no. 8. Webster, 1988, p. 206.

Ordovician, Dapingian (Arenigian). United Kingdom

Pentameric columnals Donovan, 1986d, p. 60, Pl. 2, figs. 4-7. Webster, 1993, p. 180.
Ordovician, Katian, Ashgillian, Rhiwlas Limestone. United Kingdom

Pentameric crenulated columnals Pisera, 1994, p. 288, Pl. 61, figs. 12-13.
Ordovician, Darriwilian – Katian (Llanvirnian – Ashgillian), Mojcza Limestone. Poland, Holy Cross Mountains

Pentameric pleuricolumnal Donovan, 1986d, p. 61, Fig. 23. Webster, 1993, p. 180.
Ordovician, Katian? (Ashgillian?). United Kingdom

Pentameric stems Donovan, 1986a, p. 93, Figs. 1-2. Webster, 1993, p. 180.
Ordovician, Dapingian (Arenigian), Tourmakeady Limestone. Ireland

PENTAMEROSTELA Moore and Jeffords, 1968. **P. delicatula* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 56. Webster, 1973, p. 314. Webster, 1988, p. 206. Jeffords *in* Moore and Teichert, 1978, p. T934.
Recognized number of named columnal species: 3 species, 1 Devonian, Givetian; 1 Mississippian, Viséan; 1 Mississippian, Viséan, Pennsylvvanian, Bashkirian
Devonian, Givetian. France
- Mississippian, Viséan. United States
Pennsylvanian, Bashkirian. Russia

Pentamerostela armoricana Le Menn, 1985, p. 124, Pl. 27, figs. 10-14. Webster, 1988, p. 206.
Devonian, Givetian, Kerbelec Formation. France, Armorican Massif

**Pentamerostela delicatula* Moore and Jeffords, 1968, p. 56, Pl. 9, figs. 8-9. Webster, 1973, p. 314. Kurilenko *in* Kurilenko et al., 2002, p. 260, Pl. 95, figs. 14-17.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky
Pennsylvanian, early Bashkirian, Khara-Shibirska Suite, Khara-Shibirsky Horizon. Russia, Far East Transbaikal

Pentamerostela minuta Moore and Jeffords, 1968, p. 56, Pl. 9, figs. 6-7. Webster, 1973, p. 314.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

Pentamerostela? sp. Le Menn in Le Menn et al., 2002, p. 29, Pl. 2, figs. 15-17.
Devonian, Pragian, Monte das Russianas Formation. Portugal

PENTAPETALOCRINUS Dubatolova, 1980 = ***CLAVATICRINUS***

Pentapetalocrinus buchtarmensis Dubatolova, 1988 = *Clavaticrinus buchtarmensis*

Pentapetalocrinus curtus (Dubatolova, 1964) = *Clavaticrinus curtus*

Pentapetalocrinus plurisquamosus Zinevich, 1988 = *Clavaticrinus plurisquamosus*

Pentapetalocrinus quinquerimalis Dubatolova, 1980 = *Clavaticrinus quinquerimalis*

Pentapetalocrinus retusus Dubatolova, 1980 = *Clavaticrinus retusus*

Pentapetalocrinus rimalolobatus Dubatolova, 1980 = *Clavaticrinus rimalolobatus*

Pentapetalocrinus tschernyhi Zinevich, 1988 = *Clavaticrinus tschernyhi*

PENTAPTEROCRINUS Dubatolova, 1982. **P. brevijugatus* Dubatolova, 1982.
Dubatolova, 1982, p. 80. Webster, 1988, p. 206.
Recognized number of named columnal species: 1 Devonian, Eifelian – Givetian species
Devonian, Eifelian - Givetian. Russia

**Pentapterocrinus brevijugatus* Dubatolova, 1982, p. 81, Pl. 2, figs. 6-7; Fig. 7. Webster, 1988, p. 206. Kurilenko *in* Kurilenko et al., 2002, p. 151, Pl. 64, figs. 15-18.
Devonian, Eifelian - Givetian. Russia, Far East, Transbaikal, Northeastern Salair

PENTARIDICA Moore and Jeffords, 1968. **P. rothi* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 54. Webster, 1973, p. 314. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1986, p. 377. Webster, 1988, p. 206.
Recognized number of named columnal species: 8 species, 1 Devonain, Famennian – Mississippian, Tournaisian; 3 Mississippian, 1 Tournaisian, 1 Tournaisian – Viséan, 1 Viséan - Serpukhovian; 4 Pennsylvanian, 1 Atokan – Desmoinesian, 1 Desmoinesian, 1 Moscovian, 1 Virgilian
Pennsylvanian, Desmoinesian - Virgilian. United States
Devonian, Famennian - Mississippian, Tournaisian, Pennsylvanian, Moscovian. Russia
Mississippian, Tournaisian – Viséan. Kazakhstan
Mississippian – Viséan. Poland
Middle Permian. Mexico

Pentaridica aequalis Polozhichina, 1980, p. 116, Pl. 23, fig. 29. Webster, 1986, p. 377.
Mississippian, Tournaisian. Central Kazakhstan

Pentaridica carbonica (Yeltyschewa, 1967). Kurilenko *in* Kurilenko et al., 2002, p. 259, Pl. 91, figs. 8, 12.
Anthinocrinus carbonicus Yeltyschewa *in* Yeltyschewa and Dubatolova, 1967, p. 44, Pl. 5, figs. 16-18. Yeltyschewa, 1969, p. 162, Pl. 73, figs. 8-11 (typographical error as *Anthinoerinus* on plate explanation). Yeltyschewa and Sisova, 1973, p. 91, Pl. 1, figs. 10-12; Fig. 4. Webster, 1973, p. 277. Webster, 1977, p. 185. Stukalina, 2000, p. 201, Pl. 50, fig. 1. Kurilenko *in* Kurilenko et al., 2002, p. 259.

Mississippian, late Tournaisian-early Viséan. Russia, Far East, central Kazakhstan, northwestern Pribalkhash, Upper Amur Basin
Mississippian, late Tournaisian-early Viséan. Central Kazakhstan,

Pentaridica pentagonalis Moore and Jeffords, 1968, p. 55, Pl. 9, fig. 14. Webster, 1973, p. 314. Itano et al., 2003, p. 94, Fig. 8, nos. 1-4.
Pennsylvanian, Desmoinesian, Minturn Formation. United States, Colorado

Pentaridica pulcher (Yeltyschewa, 1959). Stukalina, 2000, Pl. 50, figs. 2-4. Kurilenko *in* Kurilenko et al., 2002, p. 158, Pl. 68, figs. 21-22.
Cyclocyclicus pulcher Yeltyschewa, *in* Dubatolova and Shao, 1959, p. 70, Pl. 2, figs. 3a-3c. Kurilenko *in* Kurilenko et al., 2002, p. 158.
Kazakhstanocrinus pulcher (Yeltyschewa *in* Dubatolova and Shao, 1959, 1959). Stukalina, 1973, p. 40, Pl. 4, figs. 9-10. Kurilenko *in* Kurilenko et al., 2002, p. 158.
Devonian, Famennian – Carboniferous, Tournaisian. Russia Vostochnogo Zabaikal

Pentaridica quinata Dubatolova *in* Dubatolov, 1976, p. 84, Pl. 23, figs. 9-10; Fig. 5. Webster, 1986, p. 377.
Pennsylvanian, Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Northeastern Pribalkhash

**Pentaridica rothi* Moore and Jeffords, 1968, p. 55, Pl. 9, figs. 12-13. Webster, 1973, p. 314. Buitron-Sanchez et al., 2007, p. 346, Fig. 3, nos. a, b.
Pennsylvanian, Virgilian, Blach Ranch Limestone. United States, Texas
Middle Permian, Monos Formation. Mexico, Sonora

Pentaridica simplicis Moore and Jeffords, 1968, p. 55, Pl. 9, fig. 11. Webster, 1973, p. 314. ?Gluchowski, 1981b, p. 40, Pl. 4, fig. 13. Webster, 1988, p. 206. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. j.
Pennsylvanian, Desmoinesian, Mingus Shale. United States, Texas
Mississippian, Viséan-Serpukhovian (Namurian). Poland
Pennsylvanian, Atokan = early late Moscovian, La Joya Formation. Mexico

Pentaridica sustai Grygar and Vasícek, 1983, p. 272, Pl. 1, figs. 1a-1b; Fig. 2.
Mississippian, Serpukhovian (Namurian). Czech Republic

PENTASTELLAPENTASTELLATOPA Wright, 1983. *Nomen nudum.*
Wright, 1983, p. 597, Unnum. Fig. Webster, 1988, p. 206.
Ordovician, Katian. United Kingdom

Pentastellapentastellatopa 1 Wright, 1983, p. 597, Unnum. Fig. Webster, 1988, p. 206.
Ordovician, Katian (Caradocian). United Kingdom

Pentgonopentagonalis antiquus(Eichwald, 1860) = *Baltocrinus antiquus*

PERIBOLOCRINUS Dubatolova, 1971. **Cyclocyclicus proximus* Dubatolova, 1964.

Dubatolova, 1971, p. 89. Webster, 1977, p. 215. Jeffords *in* Moore and Teichert, 1978, p. T935. Stukalina, 1986, p. 88. Webster, 1986, p. 377. Webster, 1993, p. 181. Ebert, 1994, p. 57.
Recognized number of named columnal species: 5 Devonian species, 2 Pragian, 1 Emsian, 1 Eifelian, 1 Early Devonian
Early – Middle Devonian. Russia
Devonian, Eifelian. Kazakhstan

Peribolocrinus cylindricus Schewtschenko, 1989, p. 90, Pl. 1, fig. 24. Webster, 1993, p. 181.
Devonian, Eifelian. Kazakhstan, southern Tien Shan, Zeravshan Mountains

Peribolocrinus divulgatus Dubatolova, 1980, p. 144, Pl. 22, figs. 1-2; Fig. 37. Webster, 1986, p. 377.
Devonian, late Emsian, Zlikhov Layer. Russia, Altai Mountains

Peribolocrinus paludatus (Dubatolova, 1964). Dubatolova, 1971, p. 89. Webster, 1977, p. 215. Dubatolova, 1990, p. 126, Pl. 16, figs. 17-18; Fig. 31, nos. A-B. Webster, 1993, p. 181.
Cyclocyclicus paludatus Dubatolova, 1964, p. 97, Pl. 14, figs. 10-12. Dubatolova, 1971, p. 89. Webster, 1973, p. 286. Webster, 1977, p. 215.
Devonian, Pragian. Russia, Salair, West Siberian Platform, Kuznetz Basin

**Peribolocrinus proximus* (Dubatolova, 1964). Dubatolova, 1971, p. 89. Miliicina, 1977a, p. 150, Pl. 56, fig. 5; Fig. 5. Webster, 1977, p. 215. Webster, 1986, p. 377. Dubatolova, 1990, p. 125, Fig. 30, nos. A-B. Webster, 1993, p. 181.
Cyclocyclicus proximus Dubatolova, 1964, p. 97, Pl. 14, figs. 13-14. Dubatolova, 1971, p. 89. Webster, 1973, p. 286. Webster, 1977, p. 215.
Devonian, Pragian, Sarainin Horizon, Vizhaich Horizon, Toshem Horizon. Russia, Ural Mountains, Salair, West Siberian Platform, Kuznetz Basin

Peribolocrinus senniensis Dubatolova, 1988, p. 76, Pl. 17, figs. 1-3; Fig. p. 68, no. o. Webster, 1993, p. 181.
Middle Devonian, Ilinsk Suite (upper part of Beloubin Suite): Russia, Altai Mountains

Peribolocrinus spp.
Gluchowski, 1993a, p. 64, Fig. 13, no. E.
Devonian, Eifelian-Givetian boundary - early Frasnian, Skaly Beds; Laskowa Gora Beds; lower part of Wietrznia Beds. Poland
Ebert, 1994, p. 57, Pl. 3, fig. 17; Figs. 56, 71, 73-74.
Devonian, late Emsian - Eifelian, Hobräck Formation, Mühlenberg Formation; *Orthocrinus* Formation. Germany
Gluchowski, Casier, and Olempska, 2006, p. 701, Fig. 3, no. T.
Devonian, early middle Frasnian, middle part of Wietrznia Beds. Poland

PERIECHOCRINUS Morris, 1843.
Haude, 1981, p. 188, Fig. 1, no. I.

Silurian - Mississippian. Europe; Australia; North America

Periechocrinus spp.
Brett, 1984, p. 96, Fig. 4, no. D. Webster, 1988, p. 206.
Silurian, Rochester Shale. United States
Brett, 1985b, p. 827, Fig. 6, nos. 6-7. Webster, 1988, p. 206.
Silurian, Gasport Limestone. United States, New York

PERIGLYPTOCRINUS Wachsmuth and Springer, 1897.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian (Champlainian). Canada

Periglyptocrinus priscus Billings, 1857. Parks, 1909, p. 153, Pl. 3.
Ordovician, Katian, Trenton Limestone. Canada, Ontario

PERNEROCRINUS Bouska, 1946.
Recognized number of named columnal species: 1 Early Devonian species
Early Devonian. Russia, Czech Republic

**Pernerocrinus paradoxus* Bouska, 1946. Milicina, 1977a, p. 139, Pl. 54, fig. 1. Webster, 1986, p. 378.
Early Devonian, Toshem Horizon. Russia, Ural Mountains

Pernerocrinus? sp. indet. Bouska, 1946a, p. 18, Pl. 4, figs. 4-4a (not figs. 1-4a as given p. 18).
Early Devonian, Koneprusy Limestone. Czech Republic, Bohemia

Pernerocrinus sp. Milicina, 1977a, p. 179, Pl. 55, fig. 7. Webster, 1986, p. 378.
Late Early Devonian. Russia, Ural Mountains

PESTERICRINUS Yeltsychewa and Stukalina, 1977. **P. cingulatus* (Goldfuss, 1866).
Stukalina *in* Rzhonsnitskaya *et al.*, 1968, p. 58 (nomen nudum, no description). Yeltsychewa and Stukalina, 1977, p. 219. Stukalina, 1986, p. 86. Webster, 1986, p. 378. Webster, 1993, p. 181.
Recognized number of named columnal species: 2 Devonian, Eifelian species
Devonian, Eifelian. Russia

**Pestericrinus cingulatus* (Goldfuss, 1866). Yeltyschewa and Stukalina, 1977, p. 219. Webster, 1986, p. 378.
Entrochus cingulatus impares Quenstedt, 1874-1876. Yeltyschewa and Dubatolova, 1961, p. 556, Pl. D-87, fig. 8. Dubatolova, 1964, p. 87. Webster, 1973, p. 306.
Actinocrinites cingulatus Goldfuss, 1866. Dubatolova, 1964, p. 87. Webster, 1973, p. 306. Webster, 1977, p. 219.
Actinocrinites cingulatus nobis Goldfuss, 1866.
Pentagonocyclicus cingulatus (Goldfuss, 1866). Dubatolova, 1964, p. 87, Pls. 12, fig. 13; 13, figs. 3-4. Dubatolova, 1971, p. 71. Webster, 1973, p. 306. Webster, 1977, p. 219.

**Pestericrinus cingulatus* (Quenstedt, 1876). Stukalina *in* Rzhonsnitskaya *et al.*, 1968, p. 59. Webster, 1986, p. 378.
Pestericrinus cingulatus impares (Quenstedt, 1876). Yeltyschewa and Stukalina, 1977, p. 219.
Salairocrinus cingulatus (Goldfuss, 1866). Dubatolova, 1971, p. 71. Milicina, 1977b, p. 113, Pl. 5, fig. 3. Webster, 1977, p. 219. Webster, 1986, p. 384.
Devonian, Eifelian, Pesterevo Limestone. Russia, Northeastern Salair, Kuznetz Basin, Ural Mountains;

Pestericrinus cingulatus (Quenstedt, 1876) = **Pestericrinus cingulatus*

Pestericrinus cingulatus impares (Quenstedt, 1876) = **Pestericrinus cingulatus*

Pestericrinus vulgaris Yeltyschewa and Stukalina, 1977, p. 220, Pl. 2, figs. 1-3. Webster, 1986, p. 378.
Devonian, Eifelian, Valnev Horizon. Russia, Nova Zemlya, Central Taymyr

PETALERISMA Moore and Jeffords, 1968. **P. eriense* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 53. Webster, 1973, p. 314. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 1 Devonian, Givetian species
Devonian, Givetian (Erian). United States

**Petalerisma eriense* Moore and Jeffords, 1968, p. 53, Pl. 8, figs. 12-13. Webster, 1973, p. 314.
Devonian, Givetian (Erian), Wanakah Shale. United States, New York

PHACITES Wahlenberg, 1821 (*non* Gesner, 1758, p. 50). **Phacites gotlandicus* Wahlenberg, 1821.
Wahlenberg, 1821, p. 108.
Recognized number of named columnal species: 1Silurian species
Silurian. Sweden, Poland

**Phacites gotlandicus* Wahlenberg, 1821, p. 108. Hisinger, 1837, p. 115, Pl. 36, fig. 4. Roemer, C. F., 1885, p. 86, Pl. 6, fig. 6. Siemiradzki, 1906a, p. 277, Pl. 21, fig. 23.
Silurian, *Monograptus* Biozone. Sweden, Poland

PHIALOCRINUS Eichwald, 1856.
Eichwald, 1856, p. 114. Zittel, 1879, p. 360. Bather *in* Lankester, 1900, p. 203. Bassler and Moodey, 1943, p. 608. Moore and Laudon, 1943b, p. 104. Strimple and Watkins, 1969, p. 188. Strimple and Moore, 1971a, p. 27. Webster, 1973, p. 314. Webster, 1977, p. 134. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian (Arenigian – Llanvirnian). Estonia

**Phialocrinus impressus* Eichwald, 1856, p. 115 Eichwald, 1860, p. 579, Pl. 31, figs.

27a-27c. Bassler and Moodey, 1943, p. 609.
Ordovician, Darriwilian (B_3), Kunda Formation. Estonia

PHRAGMOPORELLA Rezak, 1959. **P. monilis* Rezak, 1959.
Rezak, 1959, p. 128. Wood, 1965, p. 278. Webster, 1977, p. 216. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 1 Middle Silurian species
Middle Silurian. United States

**Phragmoporella monilis* Rezak, 1959, p. 128, Pl. 4, fig. 6. Webster, 1977, p. 216.
Middle Silurian, Laketown Dolomite. United States, Utah

PHYALOCRINUS Stukalina, 2000. **Phyalocrinus sulcatus* Stukalina, 2000.
F. Incertae Familiae
Stukalina, 2000, p. 59.
Recognized number of named columnal species: 1 Early Siilurian species
Early Silurian. Russia, Siberian Platform

**Phyalocrinus sulcatus* Stukalina, 2000, p. 59, Pls. 4, figs. 5-6; 20, fig. 6; Fig. 12, no. 3.
Early Silurian, Agidyisky Horizon, upper part of Agidyisky Suite. Russia, Siberian Platform

PINEGICRINUS Vanin, 1980. **P. edemskji* Vanin, 1980.
Vanin, 1980, p. 121. Webster, 1986, p. 378. Webster, 1993, p. 181.
Recognized number of named columnal species: 1 Permian, Kazanian species
Permian,Kazanian. Russia

Pinegicrinus edemskiji Vanin, 1980 = **Pinegicrinus edemskji*

**Pinegicrinus edemskji* Vanin, 1980, p. 121, Pl. 24, figs. 12-17. Webster, 1986, p. 378. Webster, 1993, p. 181.
Pinegicrinus edemskiji Vanin, 1980. Stukalina, 1988c, p. 65, Pl. 14, figs. 8-12 (sic).
Permian, Kazanian, Russian, Northeast European Platform

?Pisocrinidae gen. et sp. ind. Prokop and Petr, 1990, p. 61. Webster, 1993, p. 181.
Restes Indéterminés Waagen and Jahn, 1899, Pl. 78, fig. 3, nos. 6-8 (only). Prokop and Petr, 1990, p. 61. Webster, 1993, p. 181.
Silurian, late Wenlockian, Liten Formation. Czech Republic, Bohemia

PISOCRINUS de Koninck, 1858.
Recognized number of named columnal species: 5 species, 1 subspecies. 1 Silurian,
Wenlockian – Early Devonian, 2 Ludlovian, 2 Bielskian - Meinikian; 1 Early Devonian (+1 subspecies)
Silurian, Wenlockian – Early Devonian. Russia
Silurian, Bielskian – Melnikian. Poland

Pisocrinus? astericus (Schewtschenko, 1966). Milicina, 1973, p. 15, Pl. 1, figs. 9, 11. Milicina, 1977a, p. 137, Pl. 51, figs. 6, 8. Gluchowski, 1981a, p. 101, Fig. 3. Gluchowski, 1981b, p. 30, Pl. 1, fig. 5. Webster, 1986, p. 378. Webster, 1988, p. 206. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 290, Pl. 108, fig. 12. Webster, 1993, p. 181.
Silurian, Ludlovian, Early Devonian, Isov Horizon; Sarainin Horizon. Russia, Ural Mountains
Silurian, Bielskian - Mielnikian. Poland

Pisocrinus? bicostatus (Stukalina), 1961. Milicina, 1973, p. 17, Pl. 1, fig. 6; Fig. 1. Webster, 1993, p. 182.
Silurian, Ludlovian, Isov Horizon. Russia, Ural Mountains

Pisocrinus campana Miller, 1891. Brower, 1974b, p. 47, Fig. 20, no. 3. Webster, 1986, p. 378.
Early Devonian. Russia, Ural Mountains

Pisocrinus? costatus (Schewtschenko, 1966). Milicina, 1973, p. 14, Pl. 1, figs. 7-8, 10. Gluchowski, 1981b, p. 30, Pl. 1, fig. 6. Gluchowski, 1982, p. 79, Pl. 28, figs. l-3. Webster, 1988, p. 207. Dubatolova, 1990, p. 117, Pl. 16, figs. 1-3; Fig. 21, nos. A-B. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 290, Pl. 108, fig. 19. Webster, 1993, p. 182.
Silurian, Wenlockian - Ludlovian, Elkin Horizon, Isov Horizon; Early Devonian, Shishkat Horizon. Russia, Ural Mountains; West Siberian Platform
Silurian, Bielskian - Mielnikian. Poland

Pisocrinus? costatus costatus (Schewtschenko, 1966) = *Fabalium costatus*

Pisocrinus? costatus maximus Milicina, 1977a, p. 137, Pl. 58, figs. 5-6. Webster, 1986, p. 379.
Early Devonian, Toshem Horizon. Russia, Ural Mountains

Pisocrinus? salebrosus (Stukalina), 1961. Milicina, 1973, p. 16, Pl. 2, figs. 1-3. Webster, 1993, p. 182.
Silurian, Ludlovian, Isov Horizon. Russia, Ural Mountains

Pitted crinoid stem Franzén, 1973, p. 291, Fig. 1, nos. A-B. Webster, 1986, p. 400.
Silurian, Ludlovian, Klinteberg Beds. Sweden, Isle of Gotland

PLANOCRINUS Stukalina, 1969. *Nomen nudum*
Stukalina, 1966, p. 97. Stukalina, 1969, p. 205. Jeffords *in* Moore and Teichert, 1978, p. T937.

Planocrinus implanus Stukalina, 1969, p. 205 (*nomen nudum*).

Planocrinus multifidus (Yeltyschewa). Stukalina, 1966, p. 97. (**Note**. I have found no listing of *P. multifidus* in any of Yeltyschewa's pre 1966 papers, GDW, 2003)

Plaque de Crinoide Termier, Termier, and Vachard, 1977, p. 109, Pl. 18, fig. 7. Webster, 1986, p. 400.
Permian. Southern Tunisia

Plate lobolith Prokop and Petr, 2001b, p. 265, Figs. 8-11.
Silurian, Pridolian, Pridoli Limestone. Czech Republic

Plate loboliths Haude and Walliser, 1998, p. 94, Fig. 1.

Platten-Lobolith Haude, 1998, p. 221, Fig. 4, nos. A-C.

PLATYCION Moore and Jeffords, 1968. **P. mingusensis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 46. Webster, 1973, p. 314. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1988, p. 207.
Recognized number of named columnal species: 2 species. 1 Mississippian, Viséan; 1 Pennsylvanian, Desmoinesian
Pennsylvanian, Desmoinesian. United States
Mississippian, Viséan. Poland

**Platycion mingusensis* Moore and Jeffords, 1968, p. 46, Pl. 5, figs. 1-2. Webster, 1973, p. 314. Bowsher and Strimple, 1986, p. 8, Fig. 17, nos. a-d (after Moore and Jeffords, 1968).
Pennsylvanian, Desmoinesian, Strawn Group, Mingus Shale. United States, Texas

Platycion mingusensis Gluchowski, 1981b (*non* Moore and Jeffords, 1968), p. 34, Pl. 5, fig. 8. Webster, 1988, p. 207. Webster, 1993, p. 181.
Mississippian, Viséan: Poland

PLATYCLONUS Moore and Jeffords, 1968. **P. dispar* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 44. Webster, 1973, p. 314. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 1 Mississippian, Viséan apecies
Mississippian, Viséan (Osagean). United States

**Platyclonus dispar* Moore and Jeffords, 1968, p. 44, Pl. 4, fig. 2. Webster, 1973, p. 315.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

Platycrinid crinoid columnal Donovan, 1983b, p. 1, Fig. 1, no. A. Webster, 1988, p. 207.
Mississippian. No locality data

PLATYCRINITES Miller, 1821.
Skoropisceva, 1969, p. 33. Stukalina, 1973, p. 30. Webster, 1977, p. 216.
PLATYCRINITES (sensu lato) Stukalina, 1986, p. 86. Riddle, 1989, p. 890, Fig. 1, nos. 3-4 (diagramatic). Webster, 1993, p. 182.
Recognized number of named columnal species: 37 species. 1 Devonian, Eifelian – Givetian; 1 Devonian, Fmaennian – Mississippian, Tournaisian; 2 Devonian,

Famennian – Mississippian, Viséan ; 23 Mississippian, 7 Tournaisian, 1 Tournaisian – Viséan, 5 Viséan, 2 Viséan – Serpukhovian, 2 Serpukhovian; 6 Mississippian uncertain; 1 Mississippian, Viséan – Pennsylvanian, bashkirian; 1 Early – Middle Carboniferous; 4 Pennsylvanian, 1 Desmoinesian (+1 subspecies), 1 Moscovian, 1 Bashkirian – Moscovian, 1 Middle Pennsylvanian uncertain; 1 Middle Carboniferous, 1 Middle Carboniferous – Early Perm; 1 Early Permian

Midle Devonian - Permian. Cosmopolitan

PLATYCRINITES (sensu lato) Stukalina, 1986 = ***PLATYCRINITES***

Platycrinites? altaicus Stukalina, 1973, p. 34, Pl. 3, figs. 13-16. Webster, 1977, p. 216. Stukalina, 1986, p. 86, Pl. 25, figs. 13-16. Webster, 1993, p. 182.

Mississippian, Urmugte Suite. Russia; Mongolia

Platycrinites? amantovi Stukalina, 1973, p. 34, Pl. 3, figs. 13-16. Webster, 1977, p. 216. Stukalina, 1986, p. 86, Pl. 25, figs. 1-7. Webster, 1993, p. 182.

Mississippian, Tutkhaltu Suite. Russia, Zabaikal; Mongolia

Platycrinites donicus Kurilenko, 1989. Kurilenko *in* Kurilenko et al., 2002, p. 147, Pl. 68, fig. 20.

Platycrinites? donicus Kurilenko, 1989, p. 129, Pl. 1, fig. 1; Fig. 1. Webster, 1993, p. 182.

Devonian, late Famennian. Russia, Far East, Transbaikal

Mississippian, upper part of Yakovlev Suite. Russia, Eastern Transbaikal

Platycrinites? donicus Kurilenko, 1989 = *Platycrinites donicus*

Platycrinites? gazimuricus Kurilenko, 1989, p. 129, Pl. 1, figs. 8-9; Fig. 2. Webster, 1993, p. 182. Kurilenko *in* Kurilenko et al., 2002, p. 155, Pl. 91, fig. 11.

Devonian, Famennian – Mississippian, early Viséan, Gazimurozavod Suite. Russia, Transbaikal

Platycrinites? *grumulosus* Kurilenko *in* Kurilenko et al., 2002, p. 258, Pl. 91, fig. 13.

Mississippian, late Tournaisian, Gazimurozavolska Suite, Yamkunsky Horizon. Russia, Far East Transbaikal

Platycrinites hemisphericus (Meek and Worthen, 1865). Donovan, 1997, p. 16, Fig. 5, nos. B, D.

Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa

Platycrinites? irroratus Moore and Jeffords, 1968, p. 41, Pl. 3, fig. 4. Webster, 1973, p. 315.

Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa

Platycrinites? isolateralis Stukalina, 1977 = *Platystela? isolateralis*

Platycrinites? kermanensis Stukalina, 1997a, p. 65, Pl. 9, fig. 9. Stukalina, 1997b, p.

411, Pl. 9, fig. 9.
Devonian, Famennian/Mississippian, Tournaisian boundary strata. Central Afghanistan

Platycrinites? kleninae Stukalina, 1973, p. 35, Pl. 3, figs. 17-18. Webster, 1977, p. 216. Stukalina, 1986, p. 86, Pl. 25, figs. 17-18. Webster, 1993, p. 182. Tungalag, 1998, p. 2. Kurilenko *in* Kurilenko et al., 2002, p. 256, Pl. 91, fig. 10.
Devonian, Famennian - Mississippian, Tournaisian – Viséan. Russia, Far East Transbaikal
Mississippian, Orkhiinkhondii Formation. Mongolia

Platycrinites? kotikhensis Kurilenko *in* Kurilenko et al., 2002, p. 258, Pl. 91, fig. 4.
Mississippian, late Tournaisian, Gazimurozavolska Suite, Yamkunsky Horizon. Russia, Far East Transbaikal

Platycrinites laevis Miller, 1821.
Goldfuss, 1831, p. 188, Pl. 58, Figs. 2a-2e.
Mississippian. Belgium
Skoropisceva, 1969, p. 33. Webster, 1977, p. 216.
Mississippian, Tournaisian. Ireland

Platycrinites? laevis Miller, 1821. Yeltyschewa and Polyarnaya, 1975, p. 205, Pl. 95, figs. 1-2. Webster, 1986, p. 379.
Mississippian, Viséan. Russia, Southern Ural Mountains

Platycrinites? longicostatus Polozhichina, 1980 = *Platystela? longicostatus*

Platycrinites maiensis Sisova, 1960, p. 55 (*nomen nudum*). Webster, 1973, p. 315.
Mississippian, Viséan - /serpukhovian (Namurian). Kazakhstan

Platycrinites? microtorosus Dubatolova *in* Dubatolov, 1976, p. 83, Pl. 23, figs. 6-8; Fig. 4. Webster, 1986, p. 379.
Pennsylvanian, Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Northeastern Pribalkhash

Platycrinites minimalis Gluchowski, 1980a, p. 45, Pls. 1, fig. 4; 2, fig. 5. Gluchowski, 1981b, p. 35, Pl. 3, fig. 14. Webster, 1986, p. 379. Webster, 1988, p. 207. Gluchowski, 1993a, p. 40, Fig. 4, no. J.
Devonian, Eifelian-Givetian boundary, Skaly Beds. Poland

Platycrinites minor Gluchowski, l980a, p. 44, Pls. 1, fig. 5; 2, fig. 6. Gluchowski, 1981b, p. 35, Pl. 3, fig. 15. Gluchowski, 1982, p. 79, Pl. 28, fig. 4. Webster, 1986, p. 379.
Webster, 1988, p. 207.
Mississippian, Serpukhovian (Namurian). Poland

Platycrinites? oleinikovi Kurilenko *in* Kurilenko et al., 2002, p. 256, Pl. 90, figs. 1-7.
Mississippian, early Tournaisian, Tiparinska Suite, Pavlovsky Horizon. Russia,

Transbaikal

Platycrinites? ovalis Stukalina, 1973, p. 32, Pl. 3, figs. 8-10. Webster, 1977, p. 216. Stukalina, 1986, p. 86, Pl. 25, figs. 8-10. Webster, 1993, p. 182. Kurilenko *in* Kurilenko et al., 2002, p. 256, Pl. 95, figs. 5-8.
Mississippian, Urmugte Suite. Russia, Mongolia
Mississippian, late Viséan – Pennsylvanian, early Bashkirian. Russia, Transbaikal

Platycrinites? parilis (Moore and Jeffords, 1968). Yeltyschewa and Polyarnaya, 1975, p. 205, Pl. 95, fig. 3. Webster, 1986, p. 379.
Mississippian, Viséan, Ladenin Horizon. Russia, Southern Ural Mountains

Platycrinites penicillus (Meek and Worthen, 1866). Webster, 1988, p. 207.
Platycrinus penicillus Meek and Worthen, 1866. Conkin and Conkin, 1976, p. 226, Pl. 11. Webster, 1988, p. 207.
Mississippian, Viséan (Chesterian), Ste. Genevieve. United States, Kentucky

Platycrinites? permiensis (Yakovlev *in* Yakovlev and Ivanov, 1956). Skoropisceva, 1969, p. 34, Pl. 4, figs. 6-7. Webster, 1973, p. 315. Webster, 1977, p. 216.
Platycrinus permiensis Yakovlev *in* Yakovlev and Ivanov, 1956, p. 66, Pl. 10, figs. 14-20. Webster, 1973, p. 315.
Early Permian. Russia, Verkhoyane, Ural Mountains

Platycrinites regalis (Hall, 1861). Ubaghs *in* Moore and Tichert, 1978, p. T88, Fig. 64, no. 1. Webster, 1986, p. 379.
Mississippian. United States, Iowa

Platycrinites rugosus Miller, 1821. Yeltyschewa, 1969, p. 155, Pl. 73, figs. 6-7. Webster, 1977, p. 216.
Mississippian, late Tournaisian - early Viséan. Russia, Upper Amur Basin

Platycrinites cf. *rugosus* Miller, 1821. Xu, Shan, and Chang, 1962, p. 119, Pl. 1, figs. 13a-13b.
Mississippian, Huaitoutala Formation. China, Qinghai

Platycrinites cf. *saffordi* Hall, 1858. Yeltyschewa and Dubatolvoa, 1967, p. 28, Pl. 6, figs. 16-19 (typographical error as *P.* cf. *caffordi* on plate explanation). Webster, 1973, p. 315.
Mississippian. Russia, Upper Priamur

Platycrinites? schmidtii (Stuckenberg, 1875). Skoropisceva, 1969, p. 35, Pl. 4, fig. 3. Webster, 1973, p. 315. Webster, 1977, p. 216. Bowsher and Strimple, 1986, p. 9,
Fig. 31, nos. a-b. Webster, 1993, p. 182.
Platycrinus schmidtii Stuckenberg, 1875. Yakovlev *in* Yakovlev and Ivanov, 1956, p. 76, Pl. 18, fig. 2. Webster, 1973, p. 315.
Middle Carboniferous - Early Permian. Russia, Verkhoyane

Platycrinites? *smirnovae* Kurilenko *in* Kurilenko et al., 2002, p. 257, Pl. 91, figs. 1-3.
Mississippian, late Tournaisian, Gazimurozavolska Suite, Yamkunsky Horizon. Russia, Far East Transbaikal

Platycrinites spinifer Arendt, 2002, p. 119, Pl. 2, figs. 7-8; Fig. 1, nos. d-e.
Note. Name preoccupied (Wachsmuth and Springer, 1897), GDW, 2010
Pennsylvanian, early Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

Platycrinites? striatus Kurilenko *in* Kurilenko et al., 2002, p. 258, Pl. 91, figs. 14a-14b.
Mississippiian, late Tournaisian, Gazimurozavodska Suite, Yamkunsky Horizon. Russia, Far East Transbaikal

Platycrinites? subaltaicus Sisova, 1981, p. 206, Pl. 1, figs. 11-12. Webster, 1988, p. 207.
Mississippian, early Viséan, Ishim Horizon. Kazakhstan

Platycrinites? subtuberosus Stukalina, 1973, p. 33, Pl. 3, fig. 11 (typographical error as *P.? subturosus* on plate explanation, p. 53). Webster, 1977, p. 216. Stukalina, 1986, p. 86, Pl. 25, fig. 11. Kurilenko, 1989, p. 131, Pl. 1, figs. 2-7; Fig. 3. Webster, 1993, p. 182. Kurilenko *in* Kurilenko e t al., 2002, p. 147, Pls. 68, figs. 2-11; 91, figs. 5-7
Late Mississippian; Rutai Suite. Russia, Mongolia, Transbaikal

Platycrinites tenuis Strimple and Watkins, 1969, p. 232, Pl. 54, figs. 1, 3-4, 6. Webster, 1977, p. 216. Bowsher and Strimple, 1986, p. 8, Fig. 20, nos. a-d. Webster, 1993, p. 182.
Pennsylvanian, Desmoinesian, Strawn Group, Shale below Kickapoo Falls Limestone. United States, Texas

Platycrinites tenuis contentus Strimple and Watkins, 1969, p. 233, Pl. 54, figs. 2, 5. Webster, 1977, p. 217. Bowsher and Strimple, 1986, p. 8, Fig. 21, nos. a-b. Webster, 1993, p. 183.
Pennsylvanian, Desmoinesian, Strawn Group, Shale below Kickapoo Falls Limestone. United States, Texas

Platycrinites? texanum (Moore and Jeffords, 1968). Stukalina and Schischkina, 1985, p. 282, Pl. 1, figs. 1-9. Stukalina, 1986, p. 86, Pl. 24, figs. 13-17. Stukalina, 1988c, p. 65, Pl. 14, figs. 13-15. Webster, 1988, p. 207. Webster, 1993, p. 183. Kurilenko *in* Kurilenko et al., 2002, p. 257, Pl. 95, figs. 1-3.
[See *Platyplatium* below]
Pennsylvanian, early Bashkirian, Khara-Shibirsky Horizon. Russia, Far East Transbaikal
Pennsylvanian, Moscovian?. Russia, Far East, Uda Basin

Platycrinites? cf. *texanum* Moore and Jeffords, 1968. Skoropisceva, 1969, p. 34, Pl. 4, fig. 5. Webster, 1977, p. 217.
Middle Carboniferous. Russia, Verkhoyane

Platycrinites? trautscholdi (Yakovlev, 1956). Skoropisceva, 1969, p. 35, Pl. 5, figs. 1-2. Webster, 1977, p. 217.
Middle Carboniferous. Russia, Verkhoyane

Platycrinites? tuberculatus (Yakovlev *in* Yakovlev and Ivanov, 1956). Skoropisceva, 1969, p. 34, Pl. 5, figs. 3-4. Webster, 1973, p. 315. Webster, 1977, p. 217. Bowsher and Strimple, 1986, p. 8, Fig. 12, nos. a-g. Webster, 1993, p. 183.
Platycrinus? tuberculatus Yakovlev *in* Yakovlev and Ivanov, 1956, p. 49, Pl. 12, figs. 9a-9g. Webster, 1973, p. 315.
Middle-Pennsylvanian. Russia, Verkhoyane, Kara-Chatir Range

Platycrinites? tuberosus Yeltyschewa and Stukalina *in* Stukalina, 1973, p. 34, Pl. 3, fig. 12. Webster, 1977, p. 217. Stukalina, 1986, p. 86, Pl. 25, fig. 12. Webster, 1993,
p. 183.
Early-Middle Carboniferous, Tutkhaltu Suite. Russia, Transbaikal, Zabaikal

Platycrinites? tumidus Sisova, 1981, p. 206, Pl. 1, fig. 10. Webster, 1988, p. 207.
Mississippian, late Viséan - Serpukovian. Kazakhstan

Platycrinites(?) vagulus Dubatolova and Dubatolvoa, 1984, p. 159, Pl. 24, figs. 4-6; Fig. 4. Webster, 1988, p. 207.
Mississippian, Tournaisian. Russia, western Siberia

Platycrinites vulgaris Miller, 1821. Xu, Shan, and Chang, 1962, p. 119, Pl. 2, figs. 10a-10b.
Mississippian, Huaitoutala Formation. China, Qinghai

Platycrinites columnal Ausich, *in* Hess et al., 1999 p. 151, Fig. 162.
Mississippian, late Osagean, Edwardsville Formation. United Staes, Indiana

Platycrinites s.l. sp. Lane, Maples, and Waters, 2001. Ausich and Kammer, 2009, p. 705.
Platycrinites sp. Lane, Maples, and Waters, 2001a, p. 1059, Pl. 4, figs. 1, 5 (not Pl. 3, figs. 1, 5; plate explanations for pls. 3 and 4 reversed). Ausich and Kammer, 2009, p. 705.
Devonian, Famennian, Pilton Beds. United Kingdom, North Devon

Platycrinites spp.
Gilbertson *in* Portlock, 1843, Pl. 16, fig. 6.
Mississippian. Ireland
Ubaghs, 1953, p. 743, Fig. 99. Webster, 1973, p. 315.
No age given
Devonshire, 1954, Pl. 1, figs. 9-10. Devonshire, 1955, Pl. 1, figs. 9-10. Webster, 1977, p. 217.
Pennsylvanian, Desmoinesian, Pumpkin Creek Limestone. United States, Oklahoma

Ivanova, 1958, p. 134, Pl. 18, fig. 7. Webster, 1973, p. 315.
Carboniferous. Russia, Moscow Syncline
Yeltyschewa and Dubatolova, 1967, p. 29, Pl. 6, figs. 12-15. Webster, 1973, p. 315.
Mississippian. Russia, Upper Priamur, Kazakhstan, Altai Mountains, Ural Mountains
Ubaghs *in* Moore and Teichert, 1978, p. T77, Fig. 56, no. 2. Webster, 1986, p. 380.
Mississippian. Belgium
Pabian and Strimple, 1980b, p. 18, Pl. 6, figs. 13-14. Webster, 1986, p. 380.
Pennsylvanian, Virgilian, Oread Formation, Plattsmouth Limestone Member. United States, Iowa
Gluchowski, 1981b, p. 35, Pl. 3, fig. 16. Webster, 1988, p. 207.
Mississippian, Serpukhovian (Namurian). Poland
Stukalina, 1986, p. 86, Pl. 24, fig. 12. Webster, 1993, p. 183.
Mississippian. Russia, Moscow Basin
Bowsher and Strimple, 1986, p. 8, Fig. 3, nos. a-f. Webster, 1993, p. 183.
Pennsylvanian, Taiyuan Series. China
Bowsher and Strimple, 1986, p. 8, Fig. 4, nos. a-f . Webster, 1993, p. 183.
Pennsylvanian, Desmoinesian. United States, Indiana
Bowsher and Strimple, 1986, p. 8, Fig. 9, nos. a-b. Webster, 1993, p. 183.
Pennsylvanian, Westphalian. Morocco
Bowsher and Strimple, 1986, p. 8, Fig. 10, nos. a-g. Webster, 1993, p. 183.
Pennsylvanian, Westphalian. Morocco
Bowsher and Strimple, 1986, p. 8, Fig. 11. Webster, 1993, p. 183.
Pennsylvanian, Desmoinesian, Strawn Group. United States, Texas
Bowsher and Strimple, 1986, p. 8, Fig. 14, nos. a-d. Webster, 1993, p. 183.
Pennsylvanian (C_3). Russia, Timan Range
Bowsher and Strimple, 1986, p. 8, Fig. 22. Webster, 1993, p. 183.
Middle Pennsylvanian, Bird Spring Formation. United States, Nevada
Donovan, 1989e, p. 34, Fig. 22. Webster, 1993, p. 183.
Mississippian. Belgium
Meyer, Ausich, and Terry, 1990, p. 545, Fig. 8, no. C. Webster, 1993, p. 183.
Mississippian, Viséan (Osagean), Fort Payne Formation. United States, Kentucky
Donovan, 1991c, p. 34, Fig. 22.
Mississippian. Belgium
Gluchowski, 1993a, p. 40, Fig. 4, no. K.
Devonian, early Frasnian, lower part of Wietrznia Beds. Poland
Guensburg, 1995, p. 77, Fig. 3. Howell, 1995, p. 99, Pl. 4, fig. 8.
Mississippian. United States
Donovan, 1997, p. 16, Fig. 5, no. A.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa
Donovan, 1997, p. 16, Fig. 5, no. C.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa
Donovan, 1997, p. 16, Pl. 11, figs. 1-9.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa
Platycrinus spp.
Krotova, 1885, p. 294.
Permian, Artinskian. Russia (may be Carboniferous, see Stukenberg, 1899)

Schmidt, H., 1929, p. 83, Pl. 20, figs. 12.
Mississippian. United States, Iowa
Moore, 1939b, p. 195, Fig. 6, no. 3.
Mississippian. United States
Moore, 1939b, p. 195, Fig. 6, no. 10 .
Mississippian. United States
Moore, 1939b, p. 195, Fig. 6, no. 12.
Mississippian. United States
Moore, 1939b, p. 195, Fig. 6, no. 5.
Pennsylvanian. China
Moore, 1939b, p. 195, Fig. 6, no. 9.
Pennsylvanian. China
Moore, 1939b, p. 195, Fig. 6, no. 13.
Pennsylvanian. China
Sampelayo, 1946, p. 4, Pl. 1. Webster, 1973, p. 315.
Carboniferous. Spain
Plummer, 1950, p. 88, Pl. 19, fig. 14. Crinoid columnal Heuer, 1958, p. 43, Pl. 3, fig. 14. Webster, 1973, p. 315.
Pennsylvanian, Strawn Group. United States, Texas
Termier, G. and Termier, H., 1950, p. 86, Pl. 227, figs. 11-17 (*non* fig. 18 as given p. 87). Webster, 1973, p. 315.
Pennsylvanian, Westphalian. Algeria
Termier, G. and Termier, H., 1950, p. 87, Pl. 211, fig. 16 (*non* figs. 71-75 as given p. 87). Webster, 1973, p. 315.
Pennsylvanian, Westphalian. Algeria
Termier, G. and Termier, H., 1950, p. 87, Pl. 212, figs. 14-15. Webster, 1973, p. 315.
Mississippian, Strunian. Morocco
Termier, G. and Termier, H., 1950, p. 87, Pl. 215, figs. 2-7. Webster, 1973, p. 315.
Pennsylvanian, Westphalian. Algeria
Termier, G. and Termier, H., 1950, p. 206, Pl. 211, figs. 17-18. Webster, 1973, p. 315.
Mississippian, Strunian. Algeria
Termier, G. and Termier, H., 1950, p. 206, Pl. 211, figs. 19-22. Webster, 1973, p. 316.
Mississippian, Strunian. Algeria
Termier, G. and Termier, H., 1950, p. 208, Pl. 212, figs. 16-19. Webster, 1973, p. 316.
Pennsylvanian, Westphalian. Morocco
Termier, G. and Termier, H., 1950, p. 214, Pl. 215, figs. 10-11. Webster, 1973, p. 316.
Mississippian, late Viséan. Morocco
Sieverts-Doreck, 1951a, p. 134, Pl. 9, fig. 10. Webster, 1973, p. 316.
Mississippian, Erdbacker Limestone. Germany
Sangil, 1955, p. 251, Fig. 2, no. 1. Webster, 1973, p. 316. (Diagramatic)
Yakovlev *in* Yakovlev and Ivanov, 1956, p. 77, Pl. 13, fig. 4. Webster, 1973, p. 316.

Permian. Russia, Timan Ridge
Yakovlev and Ivanov, 1956, p. 33, Fig. 8. Webster, 1973, p. 316.
Pennsylvanian, Moscovian. Russia, Moscow Basin
Yakovlev, 1961, p. 419, Pl. 2, fig. 10. Webster, 1973, p. 316.
Mississippian. Russia, Donetz Basin
Haude, 1981, p. 199, Fig. 13, no. B.
Mississippian. Belgium

Platycrinites? spp.
Elias, 1957, p. 386, Pl. 41, figs. 8-10 (*non* Pl. 4 as given in text). Webster, 1973, p. 315. (cirri, not *Platycrinites* columnals, GDW)
Mississippian, Chestrian, Goddard Shale, Redoak Hollow Member. United States, Oklahoma
Haude and Thomas, 1992, p. 315, Pl. 1, figs. F?, G-H; Fig. 2.
Mississippian, *Goniatites* Biozone, CuIIa. Germany
Gluchowski, 1993a, p. 40, Fig. 4, nos. L-N.
Devonian, early Frasnian, lower part of Wietrznia Beds. Poland
Donovan and Lewis, 1999, p. 321, Fig. 1, nos. A-E.
Mississippian, Brigantian, Five Yard Limestone. United Kingdom
Gluchowski and Racki, 2005, p. 165, Figs. 3, nos. G-H; 4, nos. A-B.
Mississippian, Tournaisian, Pilton beds. United Kingdom, North Devon
Thomas and Haude, 2006, p. 191, Fig. 4, nos. B-C.
Mississippian. Germany
Miller et al., 2008, p. 263, Fig. 12.10, nos. 13-6.
Mississippian, Viséan (Osagean), Weaubleau Breccia. United States, Missouri

Platycrinites/Neoplatycrinus spp. Webster and Jell, 1992, Fig. 6.
Permian, late Sakmarian or early Artinskian, Callytharra Limestone. Australia, Western Australia, Carnarvon Basin

Platycrinitid columnals Rozhnov, 2002, p. S626, Fig. 69, nos. a-c. (diagramatic)
Pennsylvanian. Russia, Moscow Basin

Platycrinitid indet. (columnals) Webster and Jell, 1999b, p. 295, Fig. 6, nos. A-B.
Permian, latest Artinskian or earliest Roadian, Condamine Beds. Australia, Queensland

Platycrinitidae Rozhnov, 1998, p. 77, fig. 5. (diagramatic)

Platycrinus grandistylus Roemer, C. F., 1876, Pl. 40, figs. 14a-14b. Frech, 1902, Pl. 40, figs. 14a-14b.
Mississippian, Viséan (Osagean), Warsaw Limestone. United States, Illinois

Platycrinus penicillus Meek and Worthen, 1866 = *Platycrinites penicillus*

Platycrinus permiensis Yakovlev *in* Yakovlev and Ivanov, 1956 = *Platycrinites? permiensis*

Platycrinus schmidtii Stuckenberg, 1875 = *Platycrinites? schmidtii*

Platycrinus stellatus Eichwald, 1856 = *Pentagonocyclicus stellatus*

Platycrinus? tuberculatus Yakovlev *in* Yakovlev and Ivanov, 1956 = *Platycrinites? tuberculatus*

Platycrinus sp. = *Platycrinites* spp.

PLATYPARALLELUS Moore and Jeffords, 1968. **P. parilis* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 43. Webster, 1973, p. 316. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 1 Mississippian, Viséan species
Mississippian, Viséan (Osagean). United States

**Platyparallelus parilis* Moore and Jeffords, 1968, p. 43, Pl. 4, fig. 3. Webster, 1973, p. 316.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

PLATYPLATEIUM Moore and Jeffords, 1968. **P. texanum* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 44. Burdick and Strimple, 1973b, p. 242. Webster, 1973, p. 316. Webster, 1977, p. 217. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1988, p. 207.
Recognized number of named columnal species: 6 species. 5 Mississippian, Viséan; 1 Pennsylvanian, Desmoinesian
Mississippian - Pennsylvanian, Osagean - Desmoinesian. United States; Russia

Platyplateium? longidentatus Sisova, 1981, p. 211, Pl. 1, fig. 3 (misspelled as *Platiplateium* p. 211). Webster, 1988, p. 207.
Mississippian, late Viséan - Serpukovian. Kazakhstan

Platyplateium? nurvilosus Sisova, 1981, p. 210, Pl. 1, figs. 4-5 (misspelled as *Platiplateium* p. 210). Webster, 1988, p. 208.
Mississippian, early Viséan, Ishim Horizon. Kazakhstan

Platyplateium providencense Moore and Jeffords, 1968, p. 45, Pl. 5, fig. 4. Webster, 1973, p. 316.
Mississippian, Viséan (Osagean), New Providence Shale. United States, Kentucky

Platyplateium providencense intermedius Sisova, 1981, p. 208, Pl. 1, fig. 9. Webster, 1988, p. 208.
Mississippian, early Viséan, Ishim Horizon. Kazakhstan

Platyplateium tantaicus Sisova, 1981, p. 209, Pl. 1, figs. 1-2. Webster, 1988, p. 208.
Mississippian, early Viséan, Ishim Horizon. Kazakhstan

**Platyplateium texanum* Moore and Jeffords, 1968, p. 44, Pls. 4, figs. 4-6; 5, figs. 5-8. Webster, 1973, p. 316. Sisova, 1981, p. 207, Pl. 1, figs. 6-8. Webster, 1988, p. 208. Bowsher and Strimple, 1986, p. 8, Fig. 15, nos. a-n. Webster, 1993, p. 183.
Pennsylvanian, Desmoinesian, Strawn Group, Millsap Lake Formation. United States, Texas
Mississippian. Kazakhstan

Platyplateium cf. *texanum* Moore and Jeffords, 1968. Webster and Houck, 1998, p. 1069, Fig. 5.24.
Pennsylvanian, Desmoinesian, Minturn Formation. United States, Colorado

Platyplateium spp.
Moore and Jeffords, 1968, p. 45, Pl. 5, fig. 9. Webster, 1973, p. 316.
Pennsylvanian, Desmoinesian, Strawn Group, Millsap Lake Formation. United States, Texas
Burdick and Strimple, 1973b, p. 242, Pl. 2, fig. 14; Fig. 6. Webster, 1977, p. 217.
Mississippian, Chesterian, Imo Formation. United States, Arkansas
Bowsher and Strimple, 1986, p. 8, Fig. 16, nos. a-b. Webster, 1993, p. 184.
Pennsylvanian, Desmoinesian, Strawn Group, Millsap Lake Formation. United States, Texas

PLATYSPHAERITES Trenkner, 1868. **P. columnus fultus* Trenkner, 1868.
Trenkner, 1868, p. 11. Bather *in* Lankester, 1900, p. 203. Bassler and Moodey, 1943, p. 633.
Recognized number of named columnal species: 1 Devonian, Eifelian species
Devonian, Eifelian. Germany

Platysphaerites columnis fultus Trenkner, 1868 = *Platysphaerites columnus fultus*

**Platysphaerites columnus fultus* Trenkner, 1868, p. 11, Pl. 6, fig. 1.
Platysphaerites columnis fultus Trenkner, 1868. Bassler and Moodey, 1943, p. 633 (doubtfully crinoidal).
Devonian, Eifelian, *Calceola* Beds. Germany

PLATYSTELA Moore and Jeffords, 1968. **P. proiecta* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 41. Webster, 1973, p. 316. Jeffords *in* Moore and Teichert, 1978, p. T935. Ebert, 1994, p. 29.
Recognized number of named columnal species: 3 Devonian species, 2 Early Devonian, 1 Givetian
Devonian, Givetian (Erian). United States
Esrly Devonian, Kazakhstan

Platystela? isolateralis (Stukalina, 1977). Stukalina, 1991, p. 163, Fig. 11, no. n.
Platycrinites? isolateralis Stukalina, 1977c, p. 152, Pl. 31, figs. 4. Webster, 1986, p. 379. Stukalina, 1991, p. 163.
Early Devonian, Sardzhal Horizon. Kazakhstan

Platystela? longicostatus (Polozhichina, 1980). Stukalina, 1991, p. 164, Fig. 11, no. o.
Platycrinites? longicostatus Polozhichina, 1980, p. 118, Pl. 23, fig. 32. Webster, 1986, p. 379. Stukalina, 1991, p. 164.
Early Devonian, Sardzhal Horizon. Kazakhstan

**Platystela proiecta* Moore and Jeffords, 1968, p. 42, Pl. 3, figs. 8-10. Webster, 1973, p. 316.
Devonian, Givetian (Erian), Wanakah Shale. United States, New York

Platystela sp. Ebert, 1994, p. 30, Pl. 3, fig. 12; Figs. 23, 71, 73-74.
Devonian, Eifelian, Hobräck Formation, Stöppel Formation. Germany

Pleuricolumnal Eckert and Brett, 2001, p. 65, Pl. 9, figs. 14-17.
Silurian, late Llandoverian, Willowvale Shale. United States, New York

Pleuricolumnal A Esquivel-Macias et al., 2000, p. 1189, Figs. 2-3.
Pennsylvanian, Missourian-Virgilian, Patlanoaya Formation. Mexico, Puebla State

PLEUROCRINUS Austin and Austin, 1843.
Riddle, 1989, p. 894. Webster, 1993, p. 184.
Carboniferous, Permian. North America, Europe, Timor

PLUMMERANTERICRINUS Sisova, 1983 = ***FLORICYCLUS***

Plummerantericrinus paratus Sisova, 1983 = *Floricyclus paratus*

PLUMMERANTERIS Moore and Jeffords, 1968. **P. sansaba* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 78. Webster, 1973, p. 316. Jeffords *in* Moore and Teichert, 1978, p. T935. Chernova and Stukalina, 1989, p. 118. Webster, 1993, p. 184.
Recognized number of named columnal species: 6 species. 3 Mississippian, 2 Viséan, 1 Serpukhovian; 3 Pennsylvanian, 1 Atokan, 2 Desmoinesian
Mississippian, Viséan, Serpukhovian. Russia
Pennsylvanian, Atokan - desmoinesian. United States
Mississippian, Viséan. Kazakhstan
Pennsylvanian, Atokan, Mexico

Plummeranteris candidus (Sisova, 1983). Chernova and Stukalina, 1989, p. 119, Pl. 2, figs. 1-7; Fig. 3. Webster, 1993, p. 184. Arendt, 2002, p. 130, Pls. 11, figs. 2-5; 13, figs. 1a-1b; Fig. 2, nos. n-t.
Mississippian, Viséan. Kazakhstan

Plummeranteris hebes (Moore and Jeffords, 1968). Chernova and Stukalina, 1989, p. 119. Webster, 1993, p. 184. (See **note** under *Floricyclus hebes.*)
Pennsylvanian, Desmoinesian. United States, Kansas

Plummeranteris? *ignatovensis* Arendt, 2002, p. 131, Pl. 11, figs. 1a-1c.

Mississippian, early Serpukhovian, Steshev Horizon. Russia, Moscow Basin

Plummeranteris? *profundus* Arendt, 2002, p. 132, Fig. 3, nos. a-b.
Mississippian, Viséan, Aleksin Horizon. Russia, Moscow Basin

Plummeranteris pulcher (Moore and Jeffords, 1968). Chernova and Stukalina, 1989, p. 119. Webster, 1993, p. 184.
Floricyclus pulcher Moore and Jeffords, 1968, p. 77, Pl. 24, fig. 4. Webster, 1973, p. 294. Chernova and Stukalina, 1989, p. 119. Webster, 1993, p. 184.
Pennsylvanian, Desmoinesian, Cabaniss Formation. United States, Kansas

**Plummeranteris sansaba* Moore and Jeffords, 1968, p. 78, Pl. 24, figs. 10-14. Webster, 1973, p. 316. Chernova and Stukalina, 1968, p. 119. Buitrón, Patiño, and Moreno, 1987, p. 133, Fig. 7. Webster, 1993, p. 184.
Middle – Late? Pennsylvanian, Atokan, Marble Falls Limestone; Del Monte Formation. United States, Texas; Mexico

Plummeranteris? sp. Webster et al., 2004, p. 62, Pl. 17, figs. 21-24.
Pennsylvanian, Bashkirian Hassi Kerma Formation. Algeria

Pluricolumnal Donovan *et al*., 1996, p. 371, Fig. 2, nos. B-C; 4, no. B.
Silurian, Wenlockian, Thorton Reef Complex. United States, Illinois

Pluricolumnal sp. A Donovan *et al*., 1996, p. 371, Fig. 2, no. A; 3, no. A-C; 4, no. A.
Silurian, Wenlockian, Thorton Reef Complex. United States, Illinois

Pluricolumnal spp.
Brett, 1981b, p. 346, Fig. 2, no. B. Webster, 1988, p. 208.
Silurian, Rochester Shale. United States, New York
Brett, 1985a, p. 628, Fig. 3, no. 2. Webster, 1988, p. 208.
Silurian, Gasport Limestone. United States, New York
Veltkamp and Donovan, 1984, p. 192, Fig. 2, nos. A-B. Webster, 1988, p. 208.
Ordovician, Katian, Craighead Limestone. United Kingdom, Scotland
Veltkamp and Donovan, 1984, p. 192, Fig. 2, nos. C-F. Webster, 1988, p. 208.
Ordovician, Katian, Craighead Limestone. United Kingdom, Scotland
Veltkamp and Donovan, 1984, p. 192, Fig. 3, nos. A-E. Webster, 1988, p. 208.
Silurian, late Llandoverian, Hughley Shales. United Kingdom

Pluricolumnal of circular section Donovan, 1989d, p. 100, Pl. 10, fig. 8. Webster, 1993, p. 184.
Ordovician, Katian (Caradocian), Caradoc Series. Ireland

Pluricolumnals Kalvacheva and Prokop, 1988, p. 91, Figs. 4, 6-7. Webster, 1993, p. 184.
Early Paleozoic, possibly Devonian. Bulgaria, Sipka Balkan Mountains

PLUSSACRINUS Yeltyschewa, 1957. **P. flabellum* Yeltyschewa, 1957.

Yeltyschewa, 1957, p. 228. Webster, 1973, p. 317. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 2 Ordovician, Darriwilian species
Ordovician, Darriwilian. Russia. Estonia

Plussacrinus dentatus Yeltyschewa, 1957, p. 229, Pl. 3, fig. 3; Fig. 9. Webster, 1973, p. 317.
Ordovician, Darriwilian, Ekhinosteritoviy Limestone. Russia, St. Petersburg region

**Plussacrinus flabellum* Yeltyschewa, 1957, p. 228, Pl. 3, fig. 2; Fig. 8. Webster, 1973, p. 317.
Ordovician, Darriwilian, Levskie Layer. Estonia

Podoliocrinidae Stukalina, 1986, p. 100, Fig. 30, no. 3. Webster, 1993, p. 184.
Early Devonian

PODOLIOCRINUS Yeltyschewa, 1957. **P. nikiforovae* Yeltyschewa, 1957.
Yeltyschewa, 1957, p. 227. Webster, 1973, p. 317. Webster, 1977, p. 217. Jeffords *in* Moore and Teichert, 1978, p. T935. Stukalina, 1986, p. 77. Stukalina, 1988c, p. 28, Fig. 15, no. 2. Webster, 1988, p. 208. Webster, 1993, p. 184.
PODOLOIOCRINUS Yeltyschewa, 1957. Webster, 1986, p. 380 (sic).
Recognized number of named columnal species: 1 Silurian, Ludlovian - Devonian, Lochkovian species
Silurian, Ludlovian – Devonian, Lochkovian. Russia; Kazakhstan

Podoliocrinus eximius Milicina, 2001a, p. 61, Pl. 8, figs. 2-4; Figs. 2, nos. a-b;.3, nos. a-b. Milicina, 2001b, p. 398, Pl. 8, fig.s 2-4; Figs. 2, nos. a-b; 3, nos. a-b.
Silurian, late Wenlockian, Elkina forizon. Russia, East slope of Ural Mountains

**Podoliocrinus nikiforovae* Yeltyschewa, 1957, p. 227, Pl. 3, fig. 1; Fig. 7. Yeltyschewa, 1964b, p. 80, Pl. 15, fig. 20. Schewtschenko, 1966, p. 149, Pl. 6, figs. 3-8; Fig. 19. Yeltyschewa, 1968, p. 40, Pl. 3, figs. 5-25. Stukalina, 1971, p. 197, Pl. 2, fig. 13. Webster, 1973, p. 317. Stukalina, 1975, p. 136, Pl. 35, figs. 12-13. Webster, 1977, p. 217. Stukalina, 1978c, p. 56, Pl. 13, fig. 4. Stukalina, 1978d, p. 73, Unnum. Fig. p. 72. Stukalina, 1982d, p. 142, Unnum. Fig. p. 141. Stukalina, 1986, p. 77, Pl. 19, figs. 14-17; Tab. 5. Webster, 1986, p. 380. Stukalina, 1988c, p. 62, Pl. 11, figs. 8-11; Fig. 31. Webster, 1988, p. 208. Stukalina, 1991, p. 187, Pl. 45, figs. 10-11; Fig. 17, nos. d-zh. Webster, 1993, p. 185.
Silurian, Ludlovian, Devonian, Lochkovian (Gedinnian), Shishkat Horizon; Pribalkhash Horizon; Borshchov Horizon. Russia, Tien Shan Mountains; Kazakhstan, Pribalkhash, Podolia

PODOLITHUS Sardeson, 1908. **P. schizocrinus* Sardeson, 1908.

Sardeson, 1908, p. 242. Bassler, 1938, p. 155. Bassler and Moodey, 1943, p. 636 (bases of crinoids). Moore and Laudon, 1943b, p. 104. Webster, 1973, p. 317. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 4 Ordovician, Katian species
Ordovician, Katian. United States

Podolithus anomalocrinus Sardeson, 1908, p. 246, Figs. 18-19. Bassler and Moodey, 1943, p. 636.
Ordovician, Katian (Trentonian), Prosser Limestone. United States, Minnesota

Podolithus dendrocrinus Sardeson, 1908, p. 248, Figs. 24, 26. Bassler and Moodey, 1943, p. 636.
Ordovician, Katian (Trentonian), Prosser Limestone. United States, Minnesota

Podolithus eucheirocrinus Sardeson, 1908, p. 247, Figs. 20-23. Bassler and Moodey, 1943, p. 636.
Ordovician, Katian (Black Riveran), Decorah Shale. United States, Minnesota

Podolithus schizocrinus Sardeson, 1908, p. 244, Figs. 11-17. Bassler, 1938, p. 155. Bassler and Moodey, 1943, p. 636.
Ordovician, Katian (Black Riveran), Decorah Shale. United States, Minnesota

"Podolithus" sp. Palmer and Palmer, 1977, p. 187, Fig. 5, nos. C-D. Webster, 1986, p. 380.
Ordovician, Katian (Champlainian), Galena Group, Dunleith Formation, Rivoli Member. United States, Iowa

PODOLOIOCRINUS Yeltyschewa, 1957 = ***PODOLIOCRINUS***

POLENOVOCRINUS Arendt, 2002. **Polenovocrinus mitinensis* Aendt, 2002 (OD).
Arendt, 2002, p. 143.
Recognized number of named columnal species: 1 Mississippian, Serpkhovian species
Mississippian, Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

**Polenovocrius mitinensis* Arendt, 2002, p. 143, Pl. 12, figs. 1-6; Fig. 5, nos. i-j.
Mississippian, lower part of Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

POLYCERUS Fischer de Waldheim, 1811.
Fischer de Waldheim, 1811, p. 28. Bather *in* Lankester, 1900, p. 182. Bassler and Moodey, 1943, p. 636 (pentagonal plates; probably not Paleozoic). Moore and Laudon, 1943b, p. 104 (plates). Webster, 1973, p. 275. Rasmussen *in* Moore and Teichert, 1978, p. T862 (non Paleozoic). Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 1 Carboniferous? species
Carboniferous?. Russia

**Polycerus stoloniferus* Fischer de Waldheim, 1811, p. 29, Pl. 1, fig. 8. Fischer de Waldheim, 1830, Pls. 40, fig. 15; 41, figs. 1-4. Bassler and Moodey, 1943, p. 636.
Carboniferous?. Russia, near Moscow

POLYMORPHOCRINUS J. Dubatolova, 1989. **P. altschedatensis* Dubatolova, J., 1989.
Dubatolova, J., 1989, p. 92. Webster, 1993, p. 185.
Recognized number of named columnal species: 2 Devonian, Givetian species
Devonian, Givetian. Russia

**Polymorphocrinus altschedatensis* Dubatolova, J. , 1989, p. 93, Pl. 1, figs. 1-6; Fig. 1. Webster, 1993, p. 185.
Devonian, Givetian. Russia, Kuznetz Basin

Polymorphocrinus multilaminatus Dubatolova, J., 1989, p. 95, Pl. 1, fig. 7; Fig. 2. Webster, 1993, p. 185.
Devonian, Givetian. Russia, Kuznetz Basin

POLYPELTES Angelin, 1878.
Recognized number of named columnal species: 1 Late Silurian species
Silurian. Sweden

Polypeltes granulatus Angelin, 1878. Ubaghs *in* Moore and Teichert, 1978, p. T87, Fig. 63, no. 2. Webster, 1986, p. 380.
Late Silurian. Sweden, Isle of Gotland

Polypeltidae gen. et sp. ind. Prokop and Petr, 1990, p. 18, 35, 44, 56-57. Webster, 1993, p. 185.
Entrochus robustissimus Barrande *in* Waagen and Jahn, 1899, p. 146, Pl. 60, case 1, figs. 23-24. Bassler and Moodey, 1943, p. 453.
Encrinites robustissimus Waagen and Jahn, 1899. Prokop and Petr, 1990, p. 44. Webster, 1993, p. 185.
Devonian, Pragian, Koneprusy Limestone. Czech Republic
Encrinites turgidus Barrande *in* Waagen and Jahn, 1899, p. 151, Pl. 74, figs. 32-36. Bassler and Moodey, 1943, p. 449. Prokop and Petr, 1990, p. 49. Webster, 1993, p. 185.
Devonian, Pragian, Koneprusy Limestone. Czech Republic
Entrochus bulbosus Barrande *in* Waagen and Jahn, 1899, p. 146, Pl. 60, case 1, figs. 25-26. Bassler and Moodey, 1943, p. 451. Prokop and Petr, 1990, p. 18 (fragment of stem). Webster, 1993, p. 185.
Devonian, Pragian, Koneprusy Limestone. Czech Republic, Bohemia
Entrochus nodulosus Barrande *in* Waagen and Jahn, 1899, p. 145, Pl. 60, case 1, Figs. 18-22. Bassler and Moodey, 1943, p. 453. Prokop and Petr, 1990, p. 35. Webster, 1993, p. 185.
Devonian, Pragian, Koneprusy Limestone. Czech Republic, Bohemia
Calpiocrinus??? bohemicus Waagen and Jahn, 1899, p. 21, Pls. 59, figs. 7-9; 79, fig. 20, nos. 1-3. Prokop and Petr, 1990, p. 15 (partial calyx). Webster, 1993, p.

97.
Cupressocrinus bohemicus (Waagen and Jahn); Barrande, 1899, Pl. 79 explanation.
Restes indéterminés Waagen and Jahn, 1899, Pl. 73, fig. 10, nos. 22-27; Pl. 74, figs. 18-31. Prokop and Petr, 1990, p. 55. Webster, 1993, p. 185.
Devonian, Pragian, Koneprusy Limestone. Czech Republic, Bohemia
Devonian, early Emsian, Zlichov Formation. Czech Republic, Bohemia

?Polypeltidae gen. et sp. ind. Prokop and Petr, 1990, p. 59. Webster, 1993, p. 185.
Restes indéterminés Waagen and Jahn, 1899, Pls. 73, fig. 10, no. 13; 76, figs. 47. 48 (only). Prokop and Petr, 1990, p. 55, 59. Webster, 1993, p. 185.
Devonian, Pragian, Koneprusy Limestone. Czech Republic, Bohemia

POLYPOROCRINUS Dubatolova, 1971. **P. octoforabilis* Dubatolova, 1971.
Dubatolova, 1971, p. 27. Webster, 1977, p. 217. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1986, p. 380. Zinevich, 1987, p. 130. Webster, 1993, p. 185.
Recognized number of named columnal species: 6 Devonian, Eifelian species
Devonian, Eifelian. Russia; Uzbekhistan

Polyporocrinus altaicus Zinevich, 1987, p. 136, Pl. 24, figs. 1-4; Figs. 4-5. Webster, 1993, p. 185.
Devonian, Eifelian. Russia, Rudny Altai

Polyporocrinus cholzaensis Zinevich, 1987, p. 135, Pl. 24, figs. 5-7; Fig. 23. Webster, 1993, p. 185.
Devonian, Eifelian. Russia, Rudny Altai

Polyporocrinus hexaforabilis Polyarnaya, 1977, p. 163, Pl. 32, fig. 12; Fig. 26. Webster, 1986, p. 380.
Middle Devonian. Russia, Southern Ural Mountains

Polyporocrinus multiforabilis (Dubatolova, 1964). Dubatolova, 1971, p. 27. Webster, 1977, p. 217. Zinevich, 1987, p. 132, Pl. 23, fig. 1. Webster, 1993, p. 185.
Tetragonocyclicus multiforabilis Dubatolova, 1964, p. 69, Pl. 9, figs. 8-10; Fig. 8. Dubatolova, 1971, p. 27. Webster, 1973, p. 321. Webster, 1977, p. 218.
Devonian, Eifelian. Russia, Rudny Altai, Salair

Polyporocrinus mundus Rakhmonov, 2008, p. 250, Pl. 109, fig. 7.
Devonian, Eifelian, Novikhusk Beds. Uzbekistan, Zeravshan Range

**Polyporocrinus octoforabilis* Dubatolova, 1971. Zinevich, 1987, p. 134, Pl. 23, figs. 2, 3; Fig. 2. Webster, 1993, p. 186.
Polyporocrinus octoforabilis octoforabilis Dubatolova, 1971, p. 28, Pl. 2, figs. 5-6; Fig. 5. Webster, 1977, p. 218.
Devonian, Eifelian. Russia, Northeastern Saliar, Rudny Altai

**Polyporocrinus* aff. *octoforabilis* Dubatolova, 1971. Zinevich, 1987, p. 134, Pl. 24, fig. 8. Webster, 1993, p. 186.
Devonian, Eifelian. Russia

Polyporocrinus octoforabilis octoforabilis Dubatolova, 1971 = **Polyporocrinus octoforabilis*

Polyporocrinus octoforabilis solearis Dubatolova, 1971, p. 29, Pls. 2, figs. 7-8; 3, fig. 1; Fig. 6. Webster, 1977, p. 218.
Middle Devonian. Russia, Salair

POPEKOCRINUS Stukalina, 1997. **Pentagonocyclicus kangilensis* Yeltyschewa and Stukalina, 1973.
Stukalina, 1997c, p. 41, Fig. 3, no. a. Stukalina, 1997d, p. 607, Fig. 3, no. A.
Recognized number of named columnal species: 1 Pennsylvanian - Early Permian species
Pennsylvanian (C3) - Early Permian (P1). Russia, Verkhoyane

**Popekocrinus kangilensis* (Yeltyschewa and Stukalina, 1973).
Pentagonocyclicus kangilensis Yeltyschewa and Stukalina *in* Stukalina, 1973, p. 46, Pl. 6, figs. 3-4. Webster, 1977, p. 212.
Pennsylvanian (C3) - Early Permian (P1). Russia, Verkhoyane

PORCUNICRINUS Yeltyschewa *in* Yeltyschewa and Sizova, 1971. **P. octonarius* Yeltyschewa *in* Yeltyschewa and Sizova, 1971.
Yeltyschewa *in* Yeltyschewa and Sizova, 1971, p. 34. Webster, 1977, p. 218. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1986, p. 381.
PORKUNICRINUS Stukalina, 1986, p. 50. Webster, 1993, p. 186.
Recognized number of named columnal species: 2 species. 1 Ordovician, Katian, 1 Silurian, Llandoverian
Ordovician, Katian; - Silurian, Llandoverian. Estonia

**Porcunicrinus octonarius* Yeltyschewa *in* Yeltyschewa and Sizova, 1971, p. 34, Pl. 1, figs. 1-12; Fig. 1. Webster, 1977, p. 218.
Silurian, Llandoverian, Prokuni Horizon. Estonia

Porcunicrinus probatus Yeltyschewa, 1979, p. 102, Pl. 1, fig. 8. Webster, 1986, p. 381.
Ordovician, Katian, Vormsi Horizon. Estonia

PORKUNICRINUS Stukalina, 1986 = ***PORCUNICRINUS***

POROCRINUS Billings, 1857
Recognized number of named columnal species: 1 Ordovician, Katian species

Porocrinus scoticus Ramsbottom, 1961. Donovan, 1986d, p. 33, Fig. 13, no. M. Webster, 1993, p. 186.
Ordovician, Katian, Ashgillian, Ladyburn Starfish Bed. Scotland

POTERIOCRINITES Miller, 1821.
Skoropisceva, 1969, p. 36. Stukalina, 1973, p. 23. Webster, 1977, p. 218.
Recognized number of named columnal species: 15 species, 1 subspecies. 1 Devonian, Lochkovian,; 1 Devonian, Famennian – 2 Mississippian, 1 Tournaisian, uncertain 1 Mississippian, Tournaisian subspecies, 2 Tournaisian – Viséan, 1 Mississippian, 1 uncertain; 1 Mississippian, Viséan, Permian Artinskian;1 Mississippian – Early Permain; 1 Carboniferous uncertain; 2 Pennsylvanian, 1 Moscovian, 1 uncertain; 6 Permian, 3 Early Permian uncertain, 1 Artinskian, 1 Murgabian, 1 Dzulfian
Devonian - Permian. Cosmopolitan
Note: I consider many, if not most, of the species are incorretly assigned to *Poteriocrinites*. GDW 2013

Poteriocrinites? ardjichensis Stukalina, 1999a, p. 20, Pl. 2, figs. 5-7. Stukalina, 1999b, p. 141, Pl. 2, figs. 5-7.
Late Permian, middle Murgabian, lower part of Gnishik Formation. Russia, Transcaucasia

Poteriocrinites cf. *conicus* Philip, 1836. Webster, 1973, p. 317.
Poteriocrinus cf. *conicus* (Philip, 1836). Termier, G. and Termier, H., 1950, p. 89, Pl. 218, figs. 37-38. Webster, 1973, p. 317.
Pennsylvanian, Moscovian. Algeria

Poteriocrinites crassus Miller, 1821. Cain, 1968, p. 196, Fig. 1, no. bii. Skoropisceva, 1969, p. 36. Webster, 1973, p. 317. Webster, 1977, p. 218.
Poteriocrinus crassus (Miller, 1821).
Termier, G. and Termier, H., 1950, p. 89, Pls. 215, fig. 1; 218, figs. 2-10; 223, fig. 1; 225, figs. 1-3, 6-9 (typographical error, given as Pl. 225, figs. 1-3, 6-7 p. 89); 226, fig. 9. Webster, 1973, p. 317.
Mississippian, Viséan. Algeria
Almela and Sanz, 1958, Pl. 18, fig. 1. Webster, 1973, p. 317.
Mississippian, Viséan. Spain
Etheridge *in* Jack and Etheridge, 1892, p. 209, Pl. 7, fig. 6. (holdfast section)
Permian, Artinskian, Gympie Beds. Australia, Queensland
Daguin, 1929, p. 27, 31, Pl. 7, figs. 2-6. (not *Poteriocrinites crassus,* GDW).
Mississippian, Viséan, transition beds Moscovian-Westphalian. Southern Algeria

Poteriocrinites magnus (Wright, 1937). Skoropisceva, 1969, p. 36, Pl. 7, figs. 2a-2b. Webster, 1977, p. 218.
Early Permian. Russia, Northern Verkhoyane

Poteriocrinites? mergensis Yeltsychewa and Stukalina *in* Stukalina, 1973, p. 24, Pl. 5, figs. 1-7. Webster, 1977, p. 218. Kurilenko *in* Kurilenko et al., 2002, p. 29, Pls. 94, figs. 9-12; 95, fig. 13; 96, fig. 6.

Mississippian - Early Permian. Russia, Verkhoyane, Spitzbergen
Mississippian, Viséan – Serpukhovian. Russia, Transbaikal

Poteriocrinites(?) mergensis improcerus Dubatolova *in* Dubatolov, 1976, p. 82, Pl. 23, figs. 2-5; Fig. 3. Dubatolova and Dubatolvoa, 1984, p. 158, Pl. 24, figs. 1-3; Fig. 3. Webster, 1986, p. 380. Webster, 1988, p. 208.
Mississippian, Tournaisian. Russia, western Siberia

Poteriocrinites minutus (Hernández-Sampelayo, 1954). Webster, 1973, p. 317.
Poteriocrinus minutus Hernández-Sampelayo, 1954, p. 25, Pl. 3, fig. 4. Webster, 1973, p. 317.
Mississippian. Spain

Poteriocrinites? morelieresensis Le Menn, 1985. Le Menn, 1987b, p. 820, Fig. 9, no. C. Webster, 1993, p. 186.
Devonian, Lochkovian (Gedinnian), Gahard Sandstone. France

Poteriocrinites praecox Sisova, 1991, p. 152, Pl. 1, figs. 2-3.
Mississippian, late Tournaisian - early Viséan. Southern Kazakhstan

Poteriocrinites prodigus Stukalina, 1997a, p. 67, Pl. 9, figs. 10-13. Stukalina, 1997b, p. 411, Pl. 9, figs. 10-13.
Devonian, Famennian/Tournaisian boundary strata. Central Afghanistan

Poteriocrinites? simplex Stukalina, 1999a, p. 20, Pl. 2, fig. 8. Stukalina, 1999b, p. 141, Pl. 2, fig. 8.
Permian, Dzhulfian, lower part of Lyudyanzin Horizon. Russia, Primorye

Poteriocrinites thiemi (Dubatolova and Shao, 1959). Stukalina and Shulza, 1993, p. 97, Pl. 1, no. 2.
Carboniferous, Lishnyai Suite. Russia, Lvov-Volyn Basin

Poteriocrinites tuberculatus Skoropisceva, 1969, p. 37, Pl. 7, fig. 3. Webster, 1977, p. 218.
Pennsylvian - Early Permian. Russia, Verkhoyane, Spitzbergen

Poteriocrinites verchoyanicus Skoropisceva, 1969, p. 37, Pl. 7, fig. 4. Webster, 1977, p. 218.
Pennsylvanian. Russia, Verkhoyane

Poteriocrinites villosus Sisova, 1991, p. 152, Pl. 1, fig. 1.
Mississippian, late Tournaisian - early Viséan. Central and southern Kazakhstan

Poteriocrinites vulgaris Vanin, 1980, p. 119, Pl. 24, figs. 1-3. Webster, 1986, p. 380.
Permian, Artinskian. Russia, Central Ural Mountains

Poteriocrinites spp.
Dubatolova and Yeltsychewa, 1969, p. 57, Pl. 14, figs. 1-2. Webster, 1977, p. 218.

Mississippian, Tournaisian. Russia, Armenia

Poteriocrinus spp.

Haug, 1905, p. 793, Pl. 15, figs. 21-24, 26-27 (*non* figs. 21-26 as given p. 793).
Pennsylvanian, Moscovian. Southern Algeria

Termier, G. and Termier, H., 1950, p. 216, Pl. 216, figs. 5-6. Webster, 1973, p. 317.
Mississippian, Viséan. Algeria

Termier, G. and Termier, H., 1950, p. 220, Pl. 218, figs. 11-12. Webster, 1973, p. 317.
Devonian, Famennian. Morocco

Termier, G. and Termier, H., 1950, p. 220, Pl. 218, figs. 33-36. Webster, 1973, p. 317.
Pennsylvanian, Westphalian. Algeria

Hernández-Sampelayo, 1954, p. 25, Pl. 3, fig. 3. Webster, 1973, p. 317.
Carboniferous. Spain

Sangil, 1955, p. 251, Fig. 2, no. D. Webster, 1973, p. 317.
No age given

Poteriocrinus biplex Eichwald, 1860 = *Pentagonocyclicus biplex* = **Crenatocrinus biplex*

Poteriocrinus conicus (Miller, 1821). Eichwald, 1860, p. 588.
Pennsylvanian. Russia, Moscow Basin

Poteriocrinus cf. *conicus* (Philip, 1836) = *Poteriocrinites* cf. *conicus*

Poteriocrinus conicus de Koninck and Le Hon, 1854. Abich, 1879, p. 84, Pl. 11, figs. 18-19. (Probably a misspelling for *P. conoideus*).
Carboniferous. Armenia

Poteriocrinus crassus (Miller, 1821) = *Poteriocrinites crassus*

Poteriocrinus crassus (Miller, 1821).

Quenstedt, 1852, p. 618, Pl. 54, figs. 28a-28b. Quenstedt, 1867, p. 738, Pl. 68, figs. 28a-28b.
Mississippian, Viséan. Belgium

Eichwald, 1860, p. 589.
Middle - Pennsylvanian. Russia, Kalouga, Ural Mountains

Baily, 1875, Pl. 36, figs. 6a-6c.
Mississippian, Tournaisian. United Kingdom, Ireland

Roemer, C. F., 1876, Pl. 40, figs. 12a-13b.
Mississippian, Viséan (Osagean). United States, Tennessee, Illinois

Julien, 1896, p. 138, Pl. 17, figs. 6-7. Frech, 1902, Pl. 40, figs. 12a-13b.
Mississippian. Central France

Rossi, 1939, p. 222, Pl. 6, figs. 2a-2c.
Mississippian, Viséan. Libyia

Poteriocrinus dubius Valette, 1934, p. 98, Unnum. Pl., figs. 13a-13c. Bassler and Moodey, 1943, p. 647.
Permian, Wordian: Tunisia

Poteriocrinus minutus Hernández-Sampelayo, 1954 = *Poteriocrinites minutus*

Poteriocrinus nuciformis Fischer de Waldheim, 1837. Eichwald, 1860, p. 588.
Pennsylvanian. Russia, Moscow Basin

Poteriocrinus quinquangularis (Miller, 1821). Eichwald, 1860, p. 589.
Pennsylvanian. Russia, Moscow Basin

Poteriocrinus quenstedti Golowkinsky, 1869. Netschajew, 1894, p. 117, Pl. 1, fig. 46.
Late Permian. Russia

Poteriocrinus? striatus Schafhäutl, 1863, p. 339, Pl. 69a, figs. 2-4.
Permian?, Graseekerberges Limestone. Germany

Poteriocrinus tenuis (Miller, 1821). Eichwald, 1860, p. 590.
Pennsylvanian. Russia, Moscow Basin

Poteriocrinus verneuili Cailliaud, 1861 = *Seilloucrinus verneuili*

Poteriocrinus spp.
Stuckenberg, 1905, p. 25, Pl. 2, figs. 18a-18b.
Pennsylvanian. Russia
Reed, 1927, p. 36 (description only).
Mississippian. China, Yunnan
Sangil, 1955, p. 251, Fig. 2, no. D.
No age or locality given

Poteriocrinus sp. = *Poteriocrinites* spp.

"*Poteriocrinus*" sp.
Oakley, 1941, p. 54.
Late Permian. India, Sikkim
Oakley, 1948, p. 86
Mississippian, late Viséan. Malaya, Pahang

Poteriocrinus? sp.
Arthaber, 1900, p. 285.
Carboniferous. Russia, Armenia or eastern part of Turkey
Mansuy, 1912b, p. 10, Pl. 1, fig. 4.
Permian: Laos
Reed, 1927, p. 112, Pl. 13, figs. 15-16.
Permo-Carboniferous. China, Yunnan

Poteriocrinus sp. indet. Ramovs and Sieverts-Doreck, 1968, p. 202, Fig. 3, nos. s-e.

Middle Permian, Trogkofel Stage. Yugoslavia

Praecorocrinus polonicus Gluchowski, 1980 = *Praeorocrinus polonicus*

PRAEOROCRINUS Gluchowski, 1980. **P. polonicus* Gluchowski, 1980.
Gluchowski, 1980a, p. 48. Webster, 1986, p. 381. Webster, 1988, p. 208.
Recognized number of named columnal species: 1 Devonian, Givetian species
Devonian, Givetian. Poland

**Praeorocrinus polonicus* Gluchowski, 1980a, p. 48, Pls. 1, fig. 6; 2, fig. 4. Gluchowski, 1981b, p. 49, Pl. 3, fig.6. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 5. Webster, 1986, p. 381. Webster, 1988, p. 209. Gluchowski, 1993a, p. 48, Fig. 7, no. I.
Praecorocrinus polonicus Gluchowski, 1980. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 5 (sic).
Devonian, Givetian, Skaly Beds. Poland

PREPTOPREMNUM Moore and Jeffords, 1968. **P. rugosum* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 80. Webster, 1973, p. 317. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1986, p. 381. Webster, 1988, p. 209.
Recognized number of named columnal species: 8 species. 3 Mississippian, Tournaisian,; 1 Mississippian, Serpukhovian – Pennsylvanian, Moscovian; 2 Pennsylvanian, 1 Atokan – Moscovian, 1 Moscovian; 1 Permian uncertain
Mississippian, Tournaisian. Poland
Mississippian, Serpukhovian, Pennsylvanian, Moscovian. Russia
Pennsylvanian, Desmoinesian, Virgilian. United States, Texas
Pennsylvanian, Permian. Mexico
Permian. Tunisia

Preptopremnum delicatum Gluchowski, 1986, p. 204, Pl. 3, fig. 3.
Mississippian, late Tournaisian. Poland

Preptopremnum laeve Moore and Jeffords, 1968, p. 81, Pl. 27, fig. 11. Webster, 1973, p. 317. Buitrón-Sánchez et al., 2007, p. 204, Fig. 3, no. g.
Pennsylvanian, Desmoinesian, Mingus Shale. United States, Texas
Pennsylvanian, Atokan = early late Moscovian, La Joya Formation. Mexico

Preptopremnum lubricus Dubatolova *in* Dubatolov, 1976, p. 96, Pl. 25, figs. 10-11; Fig. 16. Webster, 1986, p. 381.
Pennsylvanian, Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Northeast Pribalkhash

Preptopremnum pustulosus Dubatolova *in* Dubatolov, 1976, p. 97, Pl. 25, figs. 5-9; Fig. 17. Gluchowski, 1981b, p. 47, Pl. 5, fig. 15. Webster, 1986, p. 381. Webster, 1988, p. 209.

Mississippian, Serpukhovian (Namurian A), Pennsylvanian, Moscovian, Taskuduk Suite, Severosayak Horizon.
Russia, Northeast Pribalkhash; Poland

Preptopremnum rigidum Gluchowski, 1986, p. 203, Pl. 2, fig. 4.
Mississippian, late Tournaisian. Poland

**Preptopremnum rugosum* Moore and Jeffords, 1968, p. 81, Pls. 27, figs. 1-9; 28, fig. 1. Moore *et al.*, 1968a, p. 19, Pls. 3, figs. 4-8; 4, fig. 7. Jeffords and Miller, 1968, p. 12, Pl. 2, figs. 1-10; Figs. 1B, 2B, 3, 4G-H. Webster, 1973, p. 317. Ubaghs *in* Moore and Teichert, 1978, p. T84, Figs. 60, nos. 3-7; 61, no. 2. Gluchowski, 1981b, p. 48, Pl. 5, fig. 16. (Not *P. rugosum*, GDW). Webster, 1986, p. 381. Webster, p. 209. Buitron-Sanchez, et al., 2007, p. 347, Fig. 3, nos. f, g.
Non Mississippian, Viséan. Poland
Pennsylvanian, Virgilian, Chaffin Limestone, Gunsight Limestone, Wayland Shale. United States, Texas
Middle Permian, Monos Formation. Mexico, Sonora

Preptopremnum variocostatum Gluchowski, 1986, p. 203, Pl. 3, figs. 1-2.
Mississippian, late Tournaisian. Poland

Preptopremnum virgalensis (Waagen, 1885). Termier, Termier, and Vachard, 1977, p. 96, Pl. 18, fig. 4. Webster, 1986, p. 381.
Permian, Bateun Beni Zid Series. Southern Tunisia

PRISCUSICRINUS Stukalina, 1997. **Pentagonocyclicus priscus* Stukalina, 1973. Stukalina, 1997c, p. 42, Fig. 3, no. e. Stukalina, 1997d, p. 608, Fig. 3, no. f.
Recognized number of named columnal species: 1 Mississippian, late Viséan – Serpukhovian species
Mississippian, late Viséan – Serpukhovian. Russia, Mongolia

**Priscusicrunius priscus* (Stukalina, 1973). Kurilenko *in* Kurilenko et al., 2002, p. 263, Pl.
94, figs. 1-5.
Pentagonocyclicus priscus Stukalina, 1973, p. 44, Pl. 5, figs. 8-10. Webster, 1977, p. 213.
Mississippian, late Viséan – Serpukhovian. Russia, Transbaikal, Mongolia

PROCTOTHYLACOCRINUS Kier, 1952.
Recognized number of named columnal species: 2 Devonian, Givetian Species
Devonian, Givetian. United States

Proctothylacocrinus esseri Kesling, 1965. Moore and Jeffords, 1968, p. 35, Pl. 2, fig. 6. Webster, 1973, p. 318.
Devonian, Givetian (Erian), Silica Formation. United States, Ohio

Proctothylacocrinus longus Kier, 1952. Moore and Jeffords, 1968, p. 34, Pl. 2, figs. 4-5. Webster, 1973, p. 318.

Devonian, Givetian (Erian), Wanakah Shale. United States, New York

PROTAXOCRINUS Springer, 1906.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. United Kingdom

Protaxocrinus girvanensis Ramsbottom, 1961. Donovan, 1986d, p. 41, Pl. 1, fig. 2; Fig. 16, nos. C-E. Webster, 1993, p. 186.
Ordovician, Katian (Ashgillian), Ladyburn Starfish Bed. United Kingdom, Scotland

Pseudocirriferous attachment structures Donovan, 1995b, p. 181, Fig. 60, nos. A-F.
Ordovician, Katian (Ashgillian). United Kingdom

PTERINOCRINUS Goldring, 1923.
Recognized number of named columnal species: 2 Devonian, Emsian species
Devonian, Emsian. France

Pterinocrinus salviensis (Le Menn, 1976). Le Menn, 1981, p. 262. Le Menn, 1985, p. 55,
Pl. 8, figs. 4, 6, 11-15. Webster, 1988, p. 209.
Exaesiodiscus salviensis Le Menn *in* Le Menn and Racheboeuf, 1976, p. 316, Pl. 31, figs. 16-20. Webster, 1986, p. 352. Le Menn, 1981, p. 262. Webster, 1988, p. 209.
Devonian, Emsian, Montguyon Formation. France, Armorican Massif

Pterinocrinus tenuibrachiatus Le Menn, 1976. Le Menn, 1981, p. 259, Pl. 33, figs. 8-11. Webster, 1988, p. 209.
Devonian, late Emsian. France, Armorican Massif

Pterinocrinus? spp.
Le Menn *in* Le Menn *et al.*, 1976, p. 47, Pl. 9, fig. 4. Webster, 1986, p. 381.
Early Devonian, Reun ar C'Hrank. France, Amorican Massif
Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 326, Pl. 1, fig. 27.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia

PULCHELLICRINUS Stukalina, 1982. **Pentagonopentagonalis pulchellus* Yeltyschewa, 1968.
Stukalina, 1982a, p. 190. Stukalina, 1986, p. 63. Webster, 1988, p. 209. Webster, 1993, p. 186.
Recognized number of named columnal species: 2 Ordovician, Darriwilian species
Ordovician, Darriwilian. Russia, Northeastern USSR, Central Asia

Pulchellicrinus oradovskajae (Yeltyschewa, 1968). Stukalina, 1982a, p. 191. Webster, 1988, p. 209.
Pentagonopentagonalis oradovskajae Yeltyschewa, 1968, P. 127, Pl. 43, figs. 1-4; 44, figs. 1-3. Webster, 1988, p. 209.
Ordovician, Darriwilian, Darpir Horizon. Northeastern Russia

**Pulchellicrinus pulchellus* (Yeltyschewa, 1968). Stukalina, 1982a, p. 190. Stukalina, 1986, p. 63, Pl. 12, figs. 1-2. Webster, 1988, p. 209. Webster, 1993, p. 186.
Pentagonopentagonalis pulchellus Yeltyschewa, 1968, p. 124, Pl. 43, figs. 5-8. Webster, 1988, p. 209.
Ordovician, Darriwilian, Kalchan Suite. Russia, Selennyakh Mountain

PYCNOCRINUS Miller, 1883.
Ordovician, Katian. United States

Pycnocrinus sp. Sandy, 1996, p. 532, Figs. 1-2.
Ordovician, Katian, Waynesville Formation. United States, Ohio

Quadrangular stem of seven ossicles Mantell, 1854, Fig. 91, no. 9.
No age given. United Kingdom

QUADRATOCIRCULUS Donovan, 1989. **Q. perilux* Donovan, 1989.
Donovan, 1989d, p. 94. Webster, 1993, p. 186.
Ordovician, Hirnantian (Ashgillian. United Kingdom

Quadratocirculus perilux Donovan, 1989d, p. 94, Pl. 11, fig. 9; Fig. 34, no. G. Webster, 1993, p. 186. Donovan 1994, p. 77, fig. 8, no. C. Donovan, 1995a, p. 14, Fig. 2, no. c.
Ordovician, Hirnantian (Ashgillian),Glyn Grit. United Kingdom

Radicula attachment (sp. A?) Donovan *et al*., 1996, p. 371, Fig. 5.
Silurian, Wenlockian, Thorton Reef Complex. United States, Illinois

Radicular holdfasts Brett and Liddell, 1978, p. 340, Figs. 5, no. J; 7. Webster, 1986, p. 400.
Ordovician, Sandbian,Trentonian, Bobcaygeon Formation. Canada, Ontario

Ramosocrinidae Stukalina, 1986, p. 94, Fig. 28, no. 3. Stukalina, 1988c, p. 37, Fig. 22, no. 9. Webster, 1993, p. 186.
Middle - Late Ordovician

RAMOSOCRINUS Stukalina, 1979. **Pentagonopentagonalis ramosus* Yeltyschewa and
Stukalina, 1963.
Stukalina, 1969, p. 205 (*nomen nudum*). Jeffords *in* Moore and Teichert, 1978, p. T937. Stukalina, 1979a, p. 140. Stukalina, 1979d, p. 158, Fig. 2, no. 1. Stukalina, 1986, p. 59. Webster, 1986, p. 382. Webster, 1988, p. 209. Webster, 1993, p. 186.
Recognized number of named columnal species: 4 species. 3 Ordovician 2 Sandbian, 1 Katian; 1 Ordovician, Sandbian, Silurian, Llandoverian,
Ordovician, Sandbian - Katian. Kazakhstan
Ordovician, Sandbian, Silurian, Lllandoverian. Russia, Taymyr; Kazakhstan

Ramosocrinus clivosus Stukalina, 1979a, p. 140, Pl. 30, fig. 6; Fig. 33,no. d. Stukalina,

1984, p. 98, Pl. 37, fig. 3. Stukalina, 1986, p. 27, Fig. 10, no. 7. Webster, 1986, p. 382. Webster,1988, p. 209. Webster, 1993, p. 186.
Ordovician, Sandbian, Dolbor Horizon. Russia, Siberian Platform

Ramosocrinus convexus Stukalina, 1979a, p. 140 (*nomen nudum*) . Stukalina, 1985a, p. 185, Pl. 2, fig. 19. Stukalina, 1986, p. 59, Pl. 10, fig. 18. Webster, 1986, p. 382. Webster, 1988, p. 209. Webster, 1993, p. 187.
Ordovician, Sandbian. Kazakhstan

**Ramosocrinus ramosus* (Yeltyschewa and Stukalina, 1963). Stukalina, 1979a, p. 140. Stukalina, 1986, p. 59, Pl. 10, figs. 7-12; Fig. 13, no. 7. Webster, 1986, p. 382. Stukalina, 1988c, p. 57, Pl. 3, figs. 17-19. Webster, 1993, p. 187.
Pentagonopentagonalis ramosus Yeltyschewa and Stukalina, 1963, p. 42, Pl. 1, figs. 4-5; Fig. 11. Webster, 1973, p. 313. Webster, 1986, p. 382.
Ordovician, Sandbian. Southeren Kazakhstan, Chuili Mountains
Silurian, Llandoverian, lower part of Otar Horizon. Russia, Taymyr
Southern Kazakhstan

Ramosocrinus tumsjikensis Stukalina, 1979a, p. 140 (*nomen* nudum) . Stukalina, 1980b, p. 102, Pl. 22, figs. 17-20; Fig. 17. Stukalina, 1986, p. 59, Pl. 10, figs. 13-17. Webster, 1986, p. 382. Stukalina, 1988c, p. 57, Pl. 3, figs. 20-23. Webster, 1993, p. 187.
Ordovician, Katian, layer with *Agetolites mirabilis*. Eastern Kazakhstan

RAMSEYOCRINUS Bates, 1968.
Sbc. Disparida, Order Tetragonocrinida, Family Tetragonocrinidae
Bates, 1968, p. 406. Ausich, 1998, p. 26.
Recognized number of named columnal species: 2 Ordovician species, 1 Tremadocian – floian, 1 Darriwiiian
Ordovician, Tremadocian – Floian. United Kingdom
Ordovician, Darriwilian. Czech Republica, Bohemia

**Ramseyocrinus cambriensis* (Hicks, 1873). Donovan, 1983c, p. 847, Fig. 2, no. C. Donovan, 1985e, p. 21, Fig. 2, nos. 4-5. Donovan, 1986d, p. 22, Pl. 1, fig. 1, Fig. 10, nos. C-J. Webster, 1988, p. 210. Donovan, 1989e, p. 34, Fig. 25. Donovan, 1991c, p. 35, Fig. 25. Webster, 1993, p. 187.
Ordovician, Tremadocian – Floian (Tremadocian - early Arenigian), Ogof Hen Formation. United Kingdom

Ramseyocrinus? primus (Waagen and Jahn), 1899. Prokop and Petr, 1990, p. 41.
Entrochus primus Waagen and Jahn, 1899. Yeltyschewa, 1964a, p. 66, Pl. 4, fig. 17. Webster, 1973, p. 291. Donovan, 1986d, p. 22. Prokop and Petr, 1990, p. 41. Webster, 1993, p. 155.
Bras? d'une espece dont le calice est inconnu Barrande, 1887, Pl. 2, figs. 7-8. Prokop and Petr, 1990, p. 52 (distal portion of arms).
Ordovician, Darriwilian (Llanvirian), Sarka Formation. Czech Republic, Bohemia

Ramseyocrinus columnal Donovan, 1986 = Unknown, early camerate crinoid

RAMULICRINUS Stukalina, 1968. **Pentagonopentagonalis multipartitus* Yeltyschewa, 1955.
Stukalina, 1968c, p. 89. Stukalina, 1969, p. 209, Fig. 3, no. 2. Stukalina, 1970b, p. 79. Webster, 1973, p. 318. Webster, 1977, p. 218. Jeffords *in* Moore and Teichert, 1978, p. T935. Stukalina, 1986, p. 61. Webster, 1986, p. 382. Webster, 1993, p. 187. Donovan, 1995b, p. 156.
Recognized number of named columnal species: 3 Ordovician species, 1 Sandbian, 2 Katian
Ordovician, Sandbian - Katian. United Kingdom
Ordovician, Katian. Kazakhstan

Ramulicrinus costonensis Donovan, 1995b, p. 156, Fig. 50, nos. A-H.
Ordovician, Sandbian (Caradocian). United Kingdom

Ramulicrinus horderleyensis Donovan, 1995b, p. 157, Fig. 51, nos. A-E.
Ordovician, Katian (Caradocian), Horderley Sandstone Formation. United Kingdom

Ramulicrinus hrustalnjiensis (Yeltyschewa and Stukalina, 1963) = *Lunulacrinus hrustalnjiensis*

Ramulicrinus multipartitus (Yeltyschewa, 1955) = *Particrinus multipartitus*

Ramulicrinus ramulus Stukalina, 1969, p. 209, Pl. 1, figs. 1-7; Figs. 1-2 (typographical error as *R. ramulis* on figure explanation). Webster, 1977, p. 219. Stukalina, 1986, p. 61, Pl. 11, figs. 5-7. Stukalina, 1988c, p. 59, Pl. 5, figs. 10-12; Fig. 27, no. 4. Webster, 1993, p. 187.
Ordovician, Katian, Taldioi Suite. Kazakhstan, Chingiz

Ramulicrinus sp. A Donovan, 1995b, p. 158, Fig. 52, no. A.
Ordovician, Darriwilian (late Llandeilian), Ffairfach Group. United Kingdom

Ramulicrinus sp. B Donovan, 1995b, p. 159, Pl. 25, fig. 6.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

Ramulicrinus sp. C Donovan, 1995b, p. 160, Fig. 48, no. L.
Ordovician, Darriwilian (Llandeilian), Gorran Quartzite. United Kingdom

Ramulicrinus sp. Hynda, 1979 = *Babanicrinus lacunosus*

Ramulicrinus sp. 1 Hynda, 1979 = *Babanicrinus lacunosus*

RANUNCULOCOLUMNUS Donovan, 1995. **R. columnus* Donovan, 1995.
Donovan, 1995b, p. 160.
Recognized number of named columnal species: 3 Ordovician species, 2 Sandbian, 1 Katian

Ordovician, Darriwilian - Katian (Llandeilian – Ashgillian). United Kingdom

Ranunculocolumnus cadoides Donovan, 1995b, p. 162, Fig. 52, nos. C-E.
Ordovician, Sandbian (Caradocian). United Kingdom

**Ranunculocolumnus columnus* Donovan, 1995b, p. 160, Pl. 26, fig. 10; Fig. 53, nos. A-H.
Ordovician, Sandbian (Caradocian), Cheney Longville Flags. United Kingdom

Ranunculocolumnus ffryddanensis Donovan, 1995b, p. 162, Pl. 25, figs. 8-9.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

Ranunculocolumnus sp. A Donovan, 1995b, p. 163, Fig. 52, nos. F-H.
Ordovician, Darriwilian (early Llandeilian), Meadowtown Formation. United Kingdom

Ranunculocolumnus sp. B Donovan, 1995b, p. 163, Fig. 52, no. B.
Ordovician, Sandbian (Caradocian). United Kingdom

RARICRINUS Polozhichina, 1980. **R. rarus* Polozhichina, 1980.
Polozhichina, 1980, p. 115. Stukalina, 1986, p. 79. Webster, 1986, p. 382. Webster, 1993, p. 187.
Recognized number of named columnal species: 2 Devonian species, 1 Pragian - Eifelian, 1 Emsian - Eifelian
Devonian, Pragian - Eifelian. Russia
Devonian, Emsian – Eifelian. Kazakhstan, Germany

Raricrinus minimus Yeltyschewa and Dubatolova, 1967. Stukalina, 1986, p. 79, Pl. 18, fig. 12. Webster, 1993, p. 187. Kurilenko *in* Kurilenko et al., 2002, p. 160, Pl. 61, figs. 14-15. Kurilenko and Kulkov, 2008, p. 464, Fig. 3, no. G.
Devonian, Pragian, Eifelian, Imachin Suite, Ildican Suite, Bolshoi Never Suite. Russia, Verkhnego Priamur, Vostochnogo Zabaikal

**Raricrinus rarus* Polozhichina, 1980, p. 115, Pl. 23, figs. 25-26. Stukalina, 1986, p. 79, Pl. 18, figs. 13-14. Webster, 1986, p. 382. Stukalina, 1991, p. 192, Pl. 49, fig. 3; Fig. 16, no. zh. Webster, 1993, p. 187. Ebert, 1994, p. 29, Pl. 1, figs. 9, 13-15; Figs. 21, 23, 60, no. b; 71-74.
Devonian, Emsian - Eifelian, upper part of Sardzhaks Horizon; Hobräck Formation; Stöppel Formation; Brachtpe Formation. Russia, Germany
Devonian, Emsian – Eifelian. Kazakhstan

Recognizable parts of Crinoidea. Rozkosny *et al.*, 1994, p. 1131, Fig. 3.
Silurian, Barrandian. Czech Republic

Recrystallized stems displaying possible internal cyst-like cavities Franzén, 1973, p. 293, Fig. 9. Webster, 1986, p. 400.
Early Devonian. Morocco

Restes indéterminés Waagen and Jahn, 1899 (part) = Crinioidearum ordo, fam., gen. et sp. ind.

Restes indéterminés Waagen and Jahn, 1899 (part) = ?Pisocrinidae gen. et sp. ind.

Restes indéterminés Waagen and Jahn, 1899 (part) = Polypeltidae gen. et sp. ind.

Restes indéterminés Waagen and Jahn, 1899 (part) = ?Polypeltidae gen. et sp. ind.

Restes indéterminés Waagen and Jahn, 1899 (part) = Scyphocrinitidae gen. et sp. ind.

RETEOCRINUS Billings, 1859.
Middle - Late Ordovician. North America

Reteocrinus spp. Guensburg, 1992a, p. 142, Fig. 15 (diagramatic)
Ordovician

RHIPIDOCRINUS Beyrich *in* Zittle, 1879.
Devonian. Europe; Australia

Rhipidocrinus sp. Hauser, 1997, Pl. 76, fig. 2.
Devonian, Givetian, ?Loogh Formation. Germany

Rhipidocrinus? sp.
Oppenheimer, 1916, p. 182.
Late Devonian, Cephalopod Limestone. Germany
Mansuy, 1920, p. 20, Pl. 3, fig. 5.
Devonian, Calcaire coralligène de Tre-nua. Indochina, Thanh-hoa

Rhizocrinus-like holdfast Franzén, 1977, p. 225, Figs. 2, no. E; 6, no. A. Webster, 1986, p. 400.
Silurian, Wenlockian. Sweden, Isle of Gotland

Rhizocrinus root type Lowenstam, 1942, p. 32, Pl. 5, fig. 1. Webster, 1977, p. 219.
Mississippian, Viséan (Osagean), Keokuk Limestone. United States, Iowa

Rhizoid holdfast spp.
Franzén, 1977, p. 226, Fig. 2, no. C. Webster, 1986, p. 400.
Silurian, Wenlockian. Sweden, Isle of Gotland
Brett, 1981b, p. 344, Fig. 1, no. A. Webster, 1988, p. 210.
Silurian, Rochester Shale. United States, New York
Brett, 1981b, p. 344, Fig. 1, no. E. Webster, 1988, p. 210.
Silurian. United States, New York
Brett, 1981b, p. 348, Fig. 4, no. A. Webster, 1988, p. 210.
Silurian, Decatur Limestone. United States, Tennessee
Brett, 1981b, p. 348, Fig. 4, no. D. Webster, 1988, p. 210.
Silurian, Brownsport Formation. United States, Tennessee

Rhizomes Ruhrmann, 1971a, p. 93, Fig. 22, nos. a-c. Webster, 1977, p. 230.
Silurian. Sweden, Isle of Gotland

RHODOCRINITES Miller, 1821.
Recognized number of named columnal species: 5 species. 4 Devonian, 3 Eifelian, 1 uncertain; 1 Mississippian, Viséan
Devonian Eifelain. Germany
Mississippian. Viséan. Morocco

Rhodocrinites canaliculatus Goldfuss, 1831 = *Myelodactylus canaliculatus*

Rhodocrinites gyrtaus Goldfuss, 1831, p. 198, Pl. 60, figs. 4a-4b. Bronn, 1848, p. 1086. d'Orbigny, 1850, p. 104. Bassler and Moodey, 1943, p. 664.
Rhodocrinus gyratus (Goldfuss, 1831). Dujardin and Hupé, 1862, p. 125.
Devonian, Eifelian. Germany

Rhodocrinites quinquepartitus Goldfuss, 1831, p. 199, Pl. 60, figs. 5A-5D. Quenstedt, 1852, p. 623, Pl. 55, figs. 7a-7c. Quenstedt, 1867, p. 746, Pl. 69, figs. 7a-7c. Quenstedt, 1885, p. 961, Pl. 78, fig. 7. Bassler and Moodey, 1943, p. 665.
Devonian, Eifelian. Germany

Rhodocrinites skourensis Delpey, 1939. Webster, 1973, p. 318.
Rhodocrinus skourensis Delpey, 1939. Termier, G. and Termier, H., 1950, p. 83, Pl. 208, figs. 5-6. Webster, 1973, p. 318.
Mississippian, late Viséan. Morocco

Rhodocrinites tortuosus Roemer, F. A., 1843, p. 8, Pl. 3, fig. 12.
Devonian Sandstone. Germany

Rhodocrinites verus Miller, 1821. (Multiple species hereunder, GDW)
Goldfuss, 1831, p. 198, Pl. 60, figs. 3A-3R.
Devonian, Eifelian: Germany
Eichwald, 1840, p. 92.
Devonian, Bergkalk. Russia
Roemer, F., A., 1843, p. 9, Pl. 3, fig. 13.
Early Devonian, Grand Limestone. Germany
Quenstedt, 1852, p. 620, Pl. 55, figs. 4a-4b. Quenstedt, 1867, p. 744, Pl. 69, figs. 4a-4b. Quenstedt, 1885, p. 961, Pl. 78, fig. 6.
Devonian, Eifelian. Germany

Rhodocrinites cf. *verus* Miller, 1821. Webster, 1973, p. 318.
Rhodocrinus cf. *verus* (Miller, 1821). Termier, G. and Termier, H., 1950, Pl. 83; 208, figs. 13-15 (incorrectly given as *Rhodocrinus gigas*). Billings, 1859, Pl. 6, fig. 3. Bassler and Moodey, 1943, p. 666. Webster, 1973, p. 318.
Ordovician, Katian (Trentonian), Hull Limestone. Canada, Ontario

Rhodocrinus **Note.** The following species are left under *Rhodocrinus* until revised in the future. They may or may not belong to *Rhodocrinites.*

Rhodocrinus canaliculatus Goldfuss, 1831 = *Myelodactylus canaliculatus*

Rhodocrinus gigas Billings, E., 1859a, Pl. 6, fig. 3. Bassler, 1915, p. 1114. Bassler and Moodey, 1943, p. 666.
Ordovician, Katian (Trentonian), Hull Limestone. Canada, Ontario

Rhodocrinus gonatodes Wirtgen and Zeiler, 1855 (Crinoid column. indeterm.) p. 391, Pl. 35, figs. 18-18b.
Devonian. Germany

Rhodocrinus gyratus Goldfuss, 1831 = *Rhodocrinites gyratus*

Rhodocrinus skourensis Delpey, 1939 = *Rhodocrinites skourensis*

Rhodocrinus tuberculatus Romanovsky, 1890 = *Rhodocrinus (Rhipidocrinus) tuberculatus*

Rhodocrinus (Rhipidocrinus) tuberculatus Romanovsky, 1890, p. 85, Pl. 14, figs. 8a-8b. Bassler and Moodey, 1943, p. 667.
Rhodocrinus tuberculatus Romanovsky, 1890. Bassler and Moodey, 1943, p. 667.
Age uncertain. Turkestan

Rhodocrinus verus Miller, 1821
Gilbertson *in* Portlock, 1843, p. 349.
Mississippian. Ireland
Romanovsky, 1890, p. 84, Pl. 14, fig. 11.
Age uncertain. Turkestan
Daguin, 1929, p. 31, Pl. 7, figs. 7a-7c (not *Rhodocrinites verus,* GDW).
Pennsylvanian, transition beds Moscovian-Westphalian. Southern Algeria

Rhodocrinus cf. *verus* Miller, 1821 = *Rhodocrinites* cf. *versus*

Rhodocrinus sp.
Haug, 1905, p. 795, Pl. 15, fig. 25.
Pennsylvanian, Moscovian. Southern Algeria
Termier, G. and Termier, H., 1950, p. 200, Pl. 208, figs. 7-9. Webster, 1973, p. 318.
Mississippian, late Viséan. Morocco
Termier, G. and Termier, H., 1950, p. 200, Pl. 208, figs. 10-12. Webster, 1973, p. 318.
Mississippian, late Viséan. Morocco
Termier, G. and Termier, H., 1950, p. 200, Pl. 208, figs. 25-28. Webster, 1973, p. 318.
Pennsylvanian, Westphalian. Algeria

Rhodocrinus? sp.
Termier, G. and Termier, H., 1950, p. 220, Pl. 218, figs. 13-14. Webster, 1973, p.

318.
Mississippian, Tournaisian (Strunian). Morocco
Termier, G. and Termier, H., 1950, p. 222, Pl. 219, figs. 21-23. Webster, 1973, p. 318.
Mississippian, late Viséan. Morocco

Rhodocrinus? sp. indeterm. Romanovsky, 1890, p. 84, Pl. 14, fig. 9.
Age uncertain. Russia, Turkestan

RHOMBICRINUS Rakhmonov, 2008. **Rhombicrinus mirakiensis* Rakhomonov, 2008.
Rakhmonov, 2008, p. 250.
Recognized number of named columnal species: 1 Devonian, Emsian species
Devonian, Emsian. Uzbekistan

**Rhombicrinus mirakiensis* Rakhmonov, 2008, p. 250, Pl. 109, figs. 8-9.
Devonian, Emsian, Obisafit Beds. Uzbekistan, Zeravshan Range

RHYSOCAMAX Moore and Jeffords, 1968. **R. cristata* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 60. Webster, 1973, p. 318. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1986, p. 382. Webster, 1988, p. 210.
Recognized number of named columnal species: 5 Mississippian species, 1 Tournaisian, 4 Viséan
Mississippian. United States; Russia
Mississippian, Tournaisian. Kazakhstan

**Rhysocamax cristata* Moore and Jeffords, l968, p. 60, Pl. 12, figs. 3-4. Webster, 1973, p. 318. Dubatolova *in* Dubatolov, 1976, p. 85, Pls. 23, figs. 11-12; 24, figs. 1-2; Fig. 6. Gluchowski, 1981b, p. 43, Pl. 5, fig. 11. Gluchowski, l982, p. 78, Pl. 28, figs. 5-6. Dubatolova and Dubatolova, 1984, p. 162, Pl. 24, fig. 9. Webster, 1986, p. 383. Webster, 1988, p. 210.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa
Mississippian, Tournaisian. Poland; Russia, Western Siberia

Rhysocamax grandis Moore and Jeffords, 1968, p. 60, Pl. 12, fig. 9. Webster, 1973, p. 318.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa

Rhysocamax lamellatus Polyarnaya *in* Yeltyschewa and Polyarnaya, 1975, p. 205, Pl. 95, figs. 12-13. Webster, 1986, p. 383.
Mississippian, Viséan, Ladenin Horizon. Russia, Ural Mountains

Rhysocamax trunciformis Sisova, 1991, p. 158, Pl. 1, fig. 7.
Mississippian, late Tournaisian. Cental and southern Kazakhstan

Rhysocamax tuberculata Moore and Jeffords, 1968, p. 60, Pl. 12, fig. 8. Webster, 1973, p. 319.
Mississippian, Viséan (Osagean), Burlington Limestone. United States, Iowa

Rhysocamax sp. Gupta and Prokop, 1983, p. 179, Fig. 1. Webster, 1988, p. 210.
Note: Most Gupta localities considered fraudulent, Webster, 1991a.
Permian: India

RICEBOCRINUS Le Menn, 1988. **R. planus* Le Menn, 1988.
Le Menn, 1988b, p. 465. Webster, 1993, p. 188.
Recognized number of named columnal species: 3 Devonian species, 1 Givetian – Frasnian, 1 Frasnian, 1 Famennian
Devonian, Givetian – Frasnian. Poland
Devonian, Frasnian. France
Devonian, Famennian. United Kingdom

Ricebocrinus kulagaiensis (Dubatolova, 1975). Gluchowski, 1993a, p. 52, Fig. 9, no. D.
Devonian, Eifelian – Frasnian, Dabrowa Limestone; Skaly Beds; Swietomarz Beds; Laskowa Gora Beds; Szydlowek Beds; Lower part of Wietrznia Beds; *Stringocephalus* Beds; Crinoid-coral Level; Jazwica Member;*Tenticospirifer* Level; Lower part of Sitkowka Beds; Checiny Beds; Frasnian Detrital Beds; Givetian Dziewki Limestone. Poland

Ricebocrinus parvus Gluchowski, 1993a, p. 54, 68, Fig. 9, nos. B-C.
Devonian, Givetian - Frasnian, Crinoid-coral Level; Jazwica Member; lower part of Sitkowka Beds; Checiny Beds; Detrital Beds; Dziewki Limestone. Poland

**Ricebocrinus planus* Le Menn, 1988b, p. 465, Pl. 54, figs. 19-21. Webster, 1993, p. 188.
Devonian, Frasnian, Beaulieu Formation, Patures Member. France

Ricebocrinus sp. Gluchowski and Racki, 2005, p. 165, Fig. 4, nos. C-D.
Devonian, Famennian, Pilton Beds; Mississippian, Tournaisian, Saunton Sands. United Kingdom, North Devon

RIMPIA de Gregorio, 1930. **R. osiensis* de Gregorio, 1930.
de Gregorio, 1930, p. 40. Bassler, 1938, p. 165. Bassler and Moodey, 1943, p. 668.
Recognized number of named columnal species: 1 Permian, Wordian species
Permian, Wordian. Sicily

**Rimpia osiensis* de Gregorio, 1930, p. 40, Pl. 15, figs. 3-4. Bassler, 1938, p. 165. Bassler and Moodey, 1943, p. 668.
Permian, Wordian, Sosio Limestone. Sicily

RISTNACRINUS Öpik, 1934. **R. marinus* Öpik, 1934.
Le Menn *in* Chauvel and Le Menn, 1973, p. 42. Webster, 1977, p. 219. Hynda, 1986, p. 93. Webster, 1988, p. 210. Webster, 1993, p. 188.
RISTNACRINUS (sensu lato) Stukalina, 1986, p. 86.
Recognized number of named columnal species: 8 Ordovician species, 1 Darriwilian – Katian, 1 Sandbian – Katian, 1 Sandbian, 4 Katian, 1 Middle Ordovicin

– uncertain
Ordovician, Darriwilian - Katian. Russia; Europe
Ordovician, Katian. Kazakhstan

RISTNACRINUS (sensu lato) Stukalina, 1986 = ***RISTNACRINUS***

Ristnacrinus angulatus Yeltyschewa, 1966, p. 55, Pl. 2, figs. 5-10. Webster, 1973, p. 319. Pisera, 1994, p. 286, Pl. 61, fig. 10; Fig. 1.
Middle Ordovician. Estonia
Ordovician, Darriwilian – Katian (Llanvirnian – Ashgillian), Mojcza Limestone. Poland, Holy Cross Mountains

Ristnacrinus? angulatus Yeltyschewa, 1966. Hynda, 1986, p. 94, Pl. 15, figs. 3-5; Fig. 37. Stukalina, 1986, p. 86, Pl. 2, figs. 1-7. Stukalina, 1988c, p. 60, Pl. 8, figs. 1-7. Webster, 1993, p. 188.
Ordovician, Darriwilian – Katian, Idavere Horizon. Latvia, Eastern European Platform

Ristnacrinus bifidus Stukalina, 1980d, p. 223, Pl. 1, figs. 2-4; Fig. 1, no. 2. (**Note**: Pl. 1, fig. 2 is a cup plate, all others columnals, GDW). Stukalina, 1986, p. 93, Pl. 1, figs. 10-11. Webster, 1986, p. 383. Stukalina, 1988c, p. 65, Pl. 14, fig. 5. Webster, 1993, p. 188.
Ordovician, Sandbian – Katian, Anderken Horizon. Southern Kazakhstan

Ristnacrinus cirrifer Le Menn *in* Chauvel and Le Menn, 1973, p. 43, Pl. 2, figs. 1-4. Webster, 1977, p. 219.
Ordovician, Katian. France

Ristnacrinus cf. *cirrifer* Le Menn *in* Chauvel and Le Menn, 1973. Le Menn *in* Chauvel, Meléndez, and Le Menn, 1975, p. 359, Pl. 3, fig. 6. Le Menn *in* Chauvel and Le Menn, 1979, p. 575, Pl. 3, fig. 12. Webster, 1986, p. 383.
Ordovician, Katian (Ashgillian). Spain

Ristnacrinus cf. *cirrifer*Le Menn, 1973. Botquelen, Le Menn, and Loi, 2006, p. 17, Fig. 3, nos. 21-23.
Ordovician, Katian (early Ashgillian), Tuviois Formation. Sardinia; Algeria

Ristnacrinus kulunbulakensis Stukalina, 1980d, p. 225, Pl. 1, figs. 8-9; Fig. 1, no. 4. Webster, 1986, p. 383.
Ordovician, Katian (Kulunbulak Suite), Dulankaren Horizon. Eastern Kazakhstan

**Ristnacrinus marinus* Opik, 1934. Yeltyschewa, 1966, p. 53, Pl. 2, figs. 15-22, 27. Webster, 1973, p. 319. Yeltyschewa, 1975, p. 125, Pl. 1, fig. 1. Stukalina, 1978a, p. 156, Pl. 35, figs. 1-4. Hynda, 1986, p. 93, Pl. 15, figs. 1-2; Fig. 36. Stukalina, 1986, p. 93, Pl. 1, figs. 2-9. Webster, 1986, p. 383. Stukalina, 1988c, p. 65, Pl. 14, figs. 1-3. Webster, 1993, p. 188. Rakhmonov and Ghobadi Pour, 2008, p. 58, Pl. 107, figs. 5-7.
Middle - Late Ordovician, Molodov Suite; Iev Horizon. Russia, Eastern European Platform; Estonia

Ordovician, early Sandbian (early Caradocian), Obikalhon Beds. Uzbekistan, Zeravshan Range

Ristnacrinus pusillus Stukalina, 1980d, p. 220, Pl. 1, fig. 1; Fig. 1, no. 1. Webster, 1986, p. 277.
Middle Ordovician, Erkebidaik Horizon. Central Kazakhstan, Chingiz Range

Ristnacrinus svedasensis Hynda and Saladzhius, 1988, p. 47, Unnum. Pl., fig. 1; Fig. a. Webster, 1993, p. 188.
Ordovician, Katian, Meilun Suite, Vormsja Horizon. Lithuania

Ristnacrinus tuberculatus Stukalina, 1980d, p. 224, Pl. 1, figs. 5-7; Fig. 1, no. 3. Stukalina, 1986, p. 86, Pl. 1, fig. 12. Webster, 1986, p. 383. Stukalina, 1988c, p. 65,
Pl. 14, fig. 4. Webster, 1993, p. 188.
Ordovician, Katian, Tolen? Horizon. Eastern Kazakhstan

Ristnacrinus spp.
Donovan, 1985d, p. 349, Fig. 5. Webster, 1988, p. 210.
Ordovician, Katian (Ashgillian), Boda Limestone: Sweden, Dalarna
Donovan, 1985e, p. 21, Fig. 2, no. 15. Webster, 1988, p. 210.
Ordovician, Sandbian (Caradocian). United Kingdom
Stukalina, 1986, p. 86, Pl. 1, figs. 13-16. Webster, 1993, p. 188.
Ordovician, Katian, Nabala Horizon. Estonia
Donovan, 1986d, p. 29, Pl. 3, figs. 2-6. Webster, 1993, p. 188.
Ordovician, Sandbian- Katian (Caradocian – Ashgillian). United Kingdom
Donovan, 1987a, p. 100, Fig. 1. Webster, 1993, p. 188.
Ordovician, Katian. Europe
Donovan, 1989e, p. 33, Fig. 13. Webster, 1993, p. 188.
Ordovician, Katian. Sweden
Donovan, 1991c, p. 33, Fig. 13.
Ordovician, Katian. Sweden
Pisera, 1994, p. 286, Pl. 61, fig. 9; Fig. 1.
Ordovician, Tremadocian? – Katian (Llanvirnian – Ashgillian), Mojcza Limestone. Poland, Holy Cross Mountains
Donovan, Paul, and Lewis, 1996, p. 205, Pl. 37, figs. 1, 5.
Ordovician, Sandbian – Katian, Glanrafon Beds; Snowdon Volcanic Group; Sholeshook, Limestone; Rhiwlas Limestone; Keisley Limestone. United Kingdom

ROOKUELACRINUS Stukalina, 1979. **R. notabilis* Stukalina, 1979.
Stukalina *in* Stukalina and Hints, 1979, p. 6. Stukalina, 1986, p. 73. Webster, 1986, p. 383. Webster, 1993, p. 188.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Estonia

**Rookuelacrinus notabilis* Stukalina *in* Stukalina and Hints, 1979, p. 6, Pl. 1, figs. 11-17. Stukalina, 1986, p. 73, Pl. 14, figs. 7-13. Webster, 1986, p. 383. Webster,

1993, p. 188.
Rookulacrinus notabilis Stukalina *in* Stukalina and Hints, 1979. Stukalina, 1988c, p. 60, Pl. 7, figs. 5-12 (sic)
Ordovician, Katian, Oandu Horizon. Estonia

Rookulacrinus notabilis Stukalina *in* Stukalina and Hints, 1979 = **Rookuelacrinus notabilis*

Roots Hall, 1862a, Pl. 1, fig. 18; 1862b, Pl. 1, fig. 18.
Devonian, Hamilton Group. United States, New York

Roots of *Eucalyptocrinus* Hall, 1879a, p. 144, Pls. 19, figs. 6-8; 20, fig. 1. Hall, 1882b, p. 276, Pls. 19, figs. 6-8; 20, fig. 1.
Silurian, Niagara, Waldron Shale. United States, Indiana

ROSULICRINUS Stukalina, 1980. **R. rosulus* Stukalina, 1980.
Stukalina, 1980b, p. 111. Stukalina, 1986, p. 78. Webster, 1986, p. 383. Webster, 1993, p. 189.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Kazakhstan

**Rosulicrinus rosulus* Stukalina, 1980b, p. 111, Pl. 23, figs. 9-11; Fig. 19, no. 6. Webster, 1986, p. 384.
Ordovician, Katian, Dulankaren Horizon. Southern Kazakhstan

RUGULOSOCRINUS Stukalina, 1979. **R. rugulosus* Stukalina, 1979.
Stukalina *in* Stukalina and Hints, 1979, p. 5. Stukalina, 1986, p. 73. Webster, 1986, p. 384. Webster, 1993, p. 189.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Estonia, Eastern European Platform

**Rugulosocrinus rugulosus* Stukalina *in* Stukalina and Hints, 1979, p. 5, Pl. 1, figs. 7-10. Stukalina, 1986, p. 73, Pl. 14, figs. 5-6. Stukalina, 1988c, p. 60, Pl. 7, figs. 1-4. Webster, 1993, p. 189.
Ordovician, Katian, Oandu Horizon. Estonia

Runner root Seilacher and MacClintock, 2005, p.233, Fig. 15.
Mississippian, Viséan (Osagean). United States, Indiana

SALAGASTIANA Rusconi, 1952. **S. simetrica* Rusconi, 1952.
Rusconi, 1951, p. 255 (*nomen nudum*). Rusconi, 1952, p. 38. Webster, 1973, p. 319. Jeffords *in* Moore and Teichert, 1978, p. T935 (= ?*Ottawacrinus* Billings, 1887).
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Argentina

**Salagastiana simetrica* Rusconi, 1951, p. 257 (*nomen nudum*) Rusconi, 1952, p. 38, Figs. 10-11. Sieverts-Doreck, 1957b, p. 152, Figs. 1-2. Webster, 1973, p. 319.

Ordovician, Katian, Salagastense Horizon. Argentina

SALAIROCRINUS Dubatolova, 1971. **Pentagonocyclicus textus* Dubatolova, 1964.
Dubatolova, 1971, p. 71. Webster, 1977, p. 219. Jeffords *in* Moore and Teichert, 1978, p. T935. Stukalina, 1986, p. 82. Webster, 1986, p. 384. Webster, 1988, p. 210. Webster, 1993, p. 189.
Recognized number of named columnal species: 17 Devonian species, 2 Pragian, 1 Pragian – Emsian, 4 Emsian, 2 Early Devonian uncertain, 4 Eifelian, 1 Eifelian – Famennian, 1 Givetian, 1Middle Devonian uncertain, 2 Devonian Uncertain
Devonian, Pragian. Portugal
Devonian. Pragian - Famennian. Russia
Devonian, Emsian. Uzbekistan
Devonian, Eifelian. Poland
Devonian, Givetian. France, United Kingdom

Salairocrinus apertus Prokop and Slámová*, 2012, p 134, Pl. 1, figs.11-12; Fig. 2.*
Devonian, early Emsiam Zlichow Limestone. Czech Republic, Barrandian area

Salairocrinus attenuatus Dubatolova, 1980, p. 127, Pl. 18, fig. 8; Fig. 19. Webster, 1986, p. 384.
Devonian, late Emsian, Zlikhovian Layer. Russia, Altai Mountains

Salairocrinus carinatus Le Menn, 1980, p. 264, Pl. 36, figs. 14-20 Le Menn, 1985, p. 154, Pl. 33, figs. 20, 25, 27-29 (not figs. 25-29 as given p. 154). Webster, 1986, p. 384. Webster, 1988, p. 210. Le Menn in Le Menn et al., 2002, p. 30, Pl. 2, figs. 25-26.
Devonian, Pragian (early Siegenian), l'Armorique Shales and Limestones. France, Armorican Massif
Devonian, Pragian, lower part of Monte das Russianas Formation. Portugal

Salairocrinus cingulatus (Goldfuss, 1866) = **Pestericrinus cingulatus*

Salairocrinus cotidianus Dubatolova, 1980, p. 129, Pl. 18, figs. 11-12; Fig. 21. Dubatolova, 1988, p. 72, Pl. 16, figs. 1-3; Unnum. Fig. p. 68, no. z. Webster, 1986, p. 384. Webster, 1993, p. 189.
Middle Devonian, Ilin Suite, upper part of Beloubin Suite. Russia, Altai Mountains

Salairocrinus efferus Dubatolova, 1980, p. 128, Pl. 18, figs. 9-10; Fig. 20. Webster, 1986, p. 384.
Devonian, late Emsian, Zlikhov Layer. Russia, Altai Mountians

Salairocrinus enucleatus Dubatolova, 1980, p. 130, Pl. 19, figs. 1-4; Fig. 22. Webster, 1986, p. 384.
Devonian, Eifelian. Russia, Altai Mountains

Salairocrinus grotovensis Dubatolova, 1984, p. 118, Pl. 14, figs. 6-8; Fig. 8. Dubatolova, 1988, p. 73, Pl. 14, figs. 17-19; Unnum. Fig. p. 68, no. i. Webster, 1988, p. 210.

Webster, 1993, p. 189.
Devonian, Vechernin Suite; Ilin Suite, upper part of Beloubin Suite. Russia, Omulev Mountains, Altai Mountains

Salairocrinus humilis (Dubatolova, 1964). Dubatolova, 1971, p. 72, Pl. 8, figs. 7-3; Fig. 13. Dubatolova, 1973b, p. 100, Pl. 26, figs. 1-3; Fig. 5. Milicina, 1977b, p. 132, Pls. 4, fig. 8; 5, figs. 6-7; Fig. 9. Webster, 1977, p. 219. Gluchowski, 1981b, p. 40, Pl. 2, fig. 11. Dubatolova, 1984, p. 117, Pl. 14, figs. 2-5; Fig. 7. Webster, 1986, p. 384. Webster, 1988, p. 211. Schewtschenko, 1989, p. 89, Pl. 1, figs. 20-21. Gluchowski, 1993a, p. 61, Fig. 11, no. F. Webster, 1993, p. 189.
Pentagonocyclicus humilis Dubatolova, 1964, p. 84, Pls. 11, fig. 13; 12, fig. 5. Dubatolova, 1967, p. 40, Pl. 6, figs. 19-21. Dubatolova, 1971, p. 72. Webster, 1973, p. 307. Webster, 1977, p. 219.
Devonian, Eifelian-Famennian, Vechernin Suite. Poland; Russia, southern Tien Shan, Omulev Mountains, Salair, Altai Mountains, Zeravshan Mountains, Ural Mountains, Kuznetz Basin, Tas-Hayahtah Mountain
Devonian, Eifelian, "Dabrowa Limestone"; Skaly Beds. Poland

Salairocrinus jucundus (Dubatolova, 1964). Dubatolova, 1971, p. 71. Webster, 1977, p. 219.
Pentagonocyclicus jucundus Dubatolova, 1964, p. 81, Pl. 11, figs. 5-7. Webster, 1973, p. 308. Webster, 1977, p. 219.
Devonian, Eifelian. Russia, Kuznetz Basin

Salairocrinus kerevenensis Le Menn, 1985, p. 154, Pl. 34, figs. 1-8. Webster, 1988, p. 211.
Devonian, Givetian, Lanvoy Formation. France, Armorican Massif

Salairocrinus cf. *kervenensis* Le Menn, 1985. Gluchowski and Racki, 2005, p. 167, Fig. 5, nos. A-B.
Devonian, Givetian, Ilfracombe Beds. United Kingdom, North Devon

Salairocrinus multibifidus Yeltsychewa and Milicina *in* Milicina, 1977a, p. 144, Pls. 57, fig. 6; 58, fig. 4. Webster, 1986, p. 385.
Early Devonian, Vizhaich Horizon, Toshhem Horizon. Russia, Ural Mountains

Salairocrinus obtusilobatus Dubatolova, 1973b, p. 100, Pl. 26, fig. 4; Fig. 6. Webster, 1977, p. 219.
Devonian, Eifelian. Russia, Salair, Altai Mountains

Salairocrinus privatus Dubatolova, 1980, p. 131, Pl. 19, figs. 5-7; Fig. 23. Webster, 1986, p. 385.
Devonian, Eifelian. Russia, Altai Mountains

Salairocrinus radialis Yeltyschewa and Milicina *in* Milicina, 1977a, p. 144, Pl. 57, figs. 5, 7; Fig. 30. Webster, 1986, p. 385.
Early Devonian, Vizhaich Horizon, Toshem Horizon. Russia, Ural Mountains

Salairocrinus (?) sentus Dubatolova, 1990, p. 121, Fig. 26, nos. A-B. Webster, 1993, p. 189.
Early Devonian, Pragian. Russia, West Siberian Platform

**Salairocrinus textus* (Dubatolova, 1964). Dubatolova, 1971, p. 71, Pl. 8, fig. 6; Fig. 32. Webster, 1977, p. 220. Dubatolova, 1990, p. 120, Pl. 16, figs. 7a-7b; Fig. 25, nos. A-B. Webster, 1993, p. 189. Rakhmonov, 2008, p. 252, Pl. 109, figs. 21-22.
Pentagonocyclicus textus Dubatolova, 1964, p. 75, Pl. 10, figs. 7-8. Dubatolova, 1971, p. 71. Webster, 1973, p. 311. Webster, 1977, p. 220.
Devonian, Pragian. Russia, Salair, Altai Mountains, West Siberian Platform, Kuznetz Basin
Devonian, Emsian, Khodzhakurgan Formation, Obisafit Beds. Uzbekistan, Zeravshan Range

Salairocrinus undosus Dubatolova, 1984, p. 119, Pl. 14, figs. 9-10; Fig. 9. Webster, 1988, p. 211.
Devonian, Vechernin Suite. Russia, Omulev Mountains

Salairocrinus spp.
Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 1.
Devonian, late Givetian. Poland
Gluchowski, 1993a, p. 61, Fig. 11, no. F.
Devonian, Givetian - Eifelian, Swietomarz Beds, Laskowa Gora Beds; lower part of the Wietrznia Beds; *Phlogoiderhychus* Level; Kadzielnia Member. Poland
Gluchowski, Casier, and Olempska, 2006, p. 701, Fig. 3, no. S.
Devonian, early middle Frasnian, middle part of Wietrznia Beds. Poland

SARTANICRINUS Stukalina, 1985. **S. sartanensis* Stukalina, 1985.
Stukalina, 1985a, p. 191. Stukalina, 1986, p. 78. Webster, 1988, p. 211. Webster, 1993, p. 189.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Kazakhstan

**Sartanicrinus sartanensis* Stukalina, 1985a, p. 191, Pl. 3, figs. 14-15. Stukalina, 1986, p. 78, Pl. 18, fig. 15. Stukalina, 1988c, p. 64, Pl. 13, fig. 21. Webster, 1988, p. 211. Webster, 1993, p. 189.
Ordovician, Sandbian, Anderken Horizon. Kazakhstan

Säulenstücke
Richter and Unger, 1856, p. 132, Pl. 3, figs. 14-15.
Devonian, Famennian. Germany
Richter and Unger, 1856, p. 132, Pl. 3, figs. 16-18.
Devonian, Famennian. Germany

Säulenstücke 1 Roemer, C. F., 1860a, p. 57, Pl. 4, figs. 9a-9b.
Silurian. United States, Tennessee

Säulenstücke 2 Roemer, C. F., 1860a, p. 57, Pl. 4, figs. 10a-11c.

Silurian. United States, Tennessee

Säulenstücke 3 Roemer, C. F., 1860a, p. 58, Pl. 4, figs. 12a-12c.
Silurian. United States, Tennessee

Säulenstücke 4 Roemer, C. F., 1860a, p. 59, Pl. 4, figs. 13a-13b.
Silurian. United States, Tennessee

Säulenstücke 5 Roemer, C. F., 1860a, p. 59, Pl. 4, figs. 14a-14b.
Silurian. United States, Tennessee

SCALARICRINUS Stukalina, 1982. **Cyclocyclicus scalariformis* Yeltyschewa, 1960.
Stukalina, 1982b, p. 157. Stukalina, 1986, p. 87. Webster, 1988, p. 211. Webster, 1993, p. 189.
Recognized number of named columnal species: 1 Silurian, Llandoverian?, Wenlockian species
Silurian, Llandoverian?Wenloockian. Russia, Siberian Platform

**Scalaricrinus scalariformis* (Yeltyschewa, 1960). Stukalina, 1982b, p. 157, Pl. 24, Figs. 7-8; Fig. 28, nos. s-t (typographical error on plate explanation as *S. acalariformis*) . Stukalina, 1986, p. 87, Pl. 31, figs. 3-4 (not Pl. 21 as given on p. 87) . Stukalina, 1988c, p. 62, Pl. 10, figs. 7-9. Webster, 1988, p. 211. Webster, 1993, p. 190. Stukalina, 2000, p. 56, Pl. 22, figs. 1-10; 23, fig. 1; Fig. 12, on. 1.
Cyclocyclicus scalariformis Yeltyschewa, 1960, p. 24, Pl. 6, figs. 5-7. Webster, 1973, p. 286. Stukalina, 1982b, p. 157. Webster, 1988, p. 211.
Silurian, Llandoverian?, Wenlockian, Khakom Horizon, Agidy Horizon; Alakitskaya Suite. Russia, Siberian Platform

SCAPHIOCRINUS Hall, 1858
Recognized number of named columnal species: 1 Pennsylvanian uncertain species
Pennsylvanian upper coal measures. United States, Nebraska

Scaphiocrinus hemisphericus (Shumard, 1858). Woodruff, 1906, p. 264, Pl. 7, figs. 6-7.
Pennsylvanian, Upper Coal Measures. United States, Nebraska

SCELIDIOPTERNIX Moore and Jeffords, 1968. **S. norops* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 74. Webster, 1973, p. 319. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 1 Silurian, Niagaran species
Silurian, Niagaran. United States, Indiana

**Scelidiopternix norops* Moore and Jeffords, 1968, p. 74, Pl. 21, figs. 11-12. Webster, 1973, p. 319.
Silurian, Niagaran, Waldron Shale. United States, Indiana

SCHIZOCRINUS Hall, 1847

Webster, 1993, p. 190.
SCHIZOCRINUS (sensu lato) Stukalina, 1986, p. 73. Hynda, 1986, p. 97. Hynda, 1993, p. 190.
Recognized number of named columnal species: 6 Ordovician species, 1 Darriwilian
- Katian, 1 Sandbian, 4 Katian
Ordovician, Darriwilian – Sandbian. Estonia; Russia
Ordovician, Darriwilian – Katian. Poland
Ordovician, Sandbian. United states, New York

Ordovician, Katian. Lithuania, Estonia, Kazakhstan

SCHIZOCRINUS (sensu lato) Stukalina, 1986 = ***SCHIZOCRINUS***

Schizocrinus alaushensis Hynda and Saladzhius, 1988, p. 48, Unnum. Pl., fig. 3; Fig. v. Webster, 1993, p. 190.
Ordovician, Katian, Meilun Suite, Vormsi Horizon. Lithuania

Schizocrinus kuckersiensis Yeltyschewa, 1966, p. 57, Pl. 1, figs. 13-17. Webster, 1973, p. 319. Hynda, 1980, p. 66, Pl. 1, figs. 9-10. Hynda, 1986, p. 98, Pl. 16, figs. 1-4; Fig. 39. Webster, 1986, p. 385. Webster, 1993, p. 190. Pisera, 1994, p.
286, Pl. 61, figs. 1-7; Fig. 2.
Ordovician, Darriwilian – Sandbian (Llandeilian, Caradocian), Ukhaku Horizon, Kukruze Horizon, Idaver Horizon. Estonia; Russia, Volyn, Eastern European Platform
Ordovician, Darriwilian - Katian (Llanvirnian – Ashgillian), Mojcza Limestone. Poland,
Holy Cross Mountains

Schizocrinus lithuanensis Hynda and Saladzhius, 1988, p. 48, Unnum. Pl., fig. 2: Fig. b. Webster, 1993, p. 190.
Ordovician, Katian, Meilun Suite, Vormsi Horizon. Lithuania

Schizocrinus nodosus Hall, 1847. Titus, 1979, p. 112, Figs. 7, no. 15; 8, no. 6. Webster, 1986, p. 385.
Ordovician, Sandbian (early Trentonian). United States, New York

Schizocrinus aff. *nodosus* Hall, 1847. Yeltsychewa, 1966, p. 56, Pl. 1, figs. 18-19. Webster, 1973, p. 319.
Ordovician, Darriwilian. Estonia

Schizocrinus cf. *nodosus* Hall, 1847. Termier, G. and Termier, H., 1950, p. 93, Pl. 231, fig. 11. Webster, 1973, p. 319.
Ordovician, Darriwilian?. Morocco

Schizocrinus radiatus Stukalina, 1980d, p. 237, Pl. 2, figs. 10-13. Webster, 1986, p. 385.

Ordovician, Katian, Dulankaren Horizon. Southern Kazakhstan

Schizocrinus vainikensis Hynda and Saladzhius, 1988, p. 49, Unnum. Pl., fig. 4; Fig. g. Webster, 1993, p. 190.
Ordovician, Katian, Svedasa Suite, Pirgu Horizon. Lithuania

Schizocrinus sp. Sahni and Gupta, 1965b, p. 247. Webster, 1973, p. 319.
Note. Most Gupta localities considered fraudulent, Webster, 1991a.
Silurian. India, Kashmir

Schraubensteine.
Walch, 1762, p. 81, Pl. 3, fig. 3.
Age uncertain
Quenstedt, 1852, p. 622, Pl. 54, fig. 36. Quenstedt, 1867, p. 745, Pl. 68, fig. 36.
Rübeland
Quenstedt, 1852, p. 623, Pl. 54, fig. 37. Quenstedt, 1867, p. 746, Pl. 68, fig. 37.
Rübeland

Schraubenstein mit pentalonalem Kanale Quenstedt, 1885, p. 961, Pl. 78, fig. 3.
Devonian, Eifelian. Germany

Schraubenstein mit rundem Kanale Quenstedt, 1885, p. 961, Pl. 78, fig. 2.
Devonian, Eifelian. Germany

SCHULTZICRINUS Springer, 1911.
Recognized number of named columnal species: 1 Middle Devonian, uncertain species
Middle Devonian. United States

Schultzicrinus aff. *elongatus* Springer, 1911. Gluchowski, 1981b, p. 31, Pl. 3, fig. 2. Webster, 1988, p. 211.
Devonian, Givetian, Skaly Beds. Poland

Schultzicrinus typus Springer 1911. Donovan, 1986c, p. 422, Fig. 1, no. J. Webster, 1993, p. 190.
Middle Devonian. United States, New York

SCHYSCHCATOCRINUS Dubatolova, 1971. **Pentagonocyclicus astericus* Schewtschenko, 1966.
Dubatolova, 1971, p. 80. Webster, 1977, p. 220. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1986, p. 385. Webster, 1988, p. 211. Webster, 1993, p. 190. Ebert, 1994, p. 49.
Recognized number of named columnal species: 17 species, 1 subspecies. 1 Silurian – Devonian uncertain (+1 subspecies); 16 Devonain species: 1 Pragian, 2 Emsian, 4 Eifelian, 3 Givetian, 1 Givetian – Frasnian, 2 Givetian – Famennian, 1 Middle Devonian uncertain, 1 Frasnian, 1 Famennian
Silurian - Devonian. Russia; Uzbekistan
Devonian, Emsian - Frasnian. France

Devonian, Eifelian – Famennian. Poland
Devonian, Eifelian. Germany

Schyschcatocrinus aculeatus Zinevich, 1988, p. 84, Pl. 18, figs. 6-7; Fig. p. 81, no. d. Webster, 1993, p. 190.
Devonian, Eifelian, Losishin Suite: Russia, Altai Mountains

**Schyschcatocrinus astericus astericus* (Schewtschenko, 1966). Dubatolova, 1971, p. 80. Webster, 1977, p. 220.
Pentagonocyclicus astericus Schewtschenko, 1966, p. 166, Pl. 5, figs. 1-3; Fig. 37. Yeltyschewa, 1968, p. 46, Pl. 5, fig. 20. Dubatolova, 1968, p. 153, Pl. 16, figs. 10-11; Fig. 11. Dubatolova, 1971, p. 80. Webster, 1973, p. 305. Webster, 1977, p. 220.
Silurian-Devonian, Tiverskian, Tom-Chum Horizon, lower part of Rekov Beds. Russia, Podolia, Salair; Uzbekistan, Tien Shan Mountains

Schyschcatocrinus astericus papulosus (Schewtschenko, 1966). Dubatolova, 1971, p. 80. Webster, 1977, p. 220.
Pentagonocyclicus astericus papulosus Schewtschenko, 1966, 1968, p. 154, Pl. 16, figs. 12-13; Fig. 12. Dubatolova, 1971, p. 80. Webster, 1973, p. 305. Webster, 1977, p. 220.
Devonian, Tom-Chum Horizon. Russia, Salair

Schyschcatocrinus blacourtensis Le Menn, 1988b, p. 468, Pl. 53, figs. 21, 23-25. Webster, 1993, p. 190.
Devonian, Givetian, Blacout Formation, Griset Member. France

Schyschcatocrinus breviatus Le Menn, 1980, p. 267, Pl. 36, figs. 21-24. Le Menn, 1985, p. 140, Pls. 30, figs. 19-20; 31, figs. 1-3 (not 1-2 as given p. 140). Webster, 1986,
p. 385. Webster, 1988, p. 211.
Devonian, Pragian (early Siegenian), l'Armorique Shales and Limestones. France, Armorican Massif

Schyschcatocrinus conoidalis Dubatolova, 1975a, p. 26, Pl. 6, figs. 4-7; Fig. 16. Webster, 1986, p. 385.
Devonian, Givetian, Beisk Horizon. Russia, Southern Minusin Basin

Schyschcatocrinus consuetus Dubatolova, 1980, p. 134, Pl. 20, figs. 4-6; Fig. 26. Webster, 1986, p. 385. Dubatolova, 1988, p. 74, Pl. 16, figs. 4-7; Unnum. Fig. p. 68, no. l. Webster, 1993, p. 190.
Middle Devonian, Zlikhov Layer; Ilin Suite, upper part of Beloubin Suite. Russia, Altai Mountains

Schyschcatocrinus creber Dubatolova, 1975a, p. 25, Pls. 5, fig. 7; 6, figs. 1-3; Fig. 15. Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, figs. 16-17. Webster, 1986, p. 386. Gluchowski, 1993a, p. 56, Fig. 10, nos. A-B. Ebert, 1994, p. 49, Figs. 73-74.
Devonian, Givetian-Famennian, Beisk Horizon. Russia, Southern Minusin Basin
Devonian, Eifelian-Givetian boundary - Givetian, Laskowa-Gora Beds; Szydlowek Beds; lower part of the Wietrznia Beds; Crinoid-Coral Level; Jazwica Member; Sitkowka Beds; *Tenticospirifer* Level; Kadzielnia Member; Checiny Beds; *Phlogoiderhynchus* Level; Detrital Beds; Marly Beds; Kostomloty Beds; *Manticoceras* Limestone; Dziewki Limetstone; Grained Limestone. Poland
Devonian, middle Eifelian, Mühlenberg Formation. Germany

Schyschcatocrinus creber Dubatolova; Gluchowski, 1981 = *Schyschcatocrinus levis*

Schyschcatocrinus delicatus Gluchowski, 1993a, p. 56, 70, Fig. 10, nos. C-D. Gluchowski, 2002, p. 322, Fig. 2, no. E. Gluchowski, Casier, and Olempska, 2006, p. 701, Fig. 3, no. L.
Devonian, Givetian - Famennian, Laskowa Gora Beds; Wietrznia Beds; *Stringocephalus* Beds; Jazwica Member; Sitkowka Beds; Kadzielnia Member; Checiny Beds; *Tenticospirifer* Level; *Phlogoiderhynchus* Level; Detrital Beds; Marly Beds; Kostomloty Beds; *Manticoceras* Limestone; Dziewki Limestone; Debnilk Limestone; Grained Limestone; *Pa. triangularis* Biozone. Poland

Schyschcatocrinus ferquensis Le Menn, 1988b, p. 469, Pl. 53, figs. 9-15. Webster, 1993, p. 190.
Devonian, Frasnian, Ferques Formation, du Bois Member. France

Schyschcatocrinus goasquellouensis Le Menn, l985, p. 141, Pl. 31, figs. 17-21. Webster, 1988, p. 211.
Devonian, Eifelian, Quelern Formation. France, Armorican Massif

Schyschcatocrinus levis Gluchowski, 2002, p. 322, Fig. 2, nos. F-H.
Schyschcatocrinus creber Dubatolova; Gluchowski, 1981a. Gluchowski, 1981b, p. 41, Pl. 3, fig. 19.. Gluchowski, 2002, p. 322. Gluchowski, 2005, p. 316, Figs. 2, nos. B, E-F; 3, nos. A-B, D; 4, no. A; 5, nos, J, L.
Devonian, late Eifelian, Skaly Beds; Famennian, *Pa. crepida* to *S. praesulcata* Biozones. Poland

Schyschcatocrinus microdontus Dubatolova, 1973b, p. 101, Pl. 26, figs. 5-6; Fig. 7. Webster, 1977, p. 220.
Devonian, Eifelian. Russia, Salair, Altai Mountains

Schyschcatocrinus multiarticulatus Dubatolova, 1971, p. 81, Pl. 9, figs. 8-10; Fig. 38. Webster, 1977, p. 220. Ebert, 1994, p. 51, Pl. 3, fig. 10: Figs. 48-49, 60, no. a; 71, 73-74.
Early Devonian. Russia, Salair
Devonian, late Emsian, *Orthocrinus* Formation, Brachtpe Formation. Germany

Schyschcatocrinus multiformis Gluchowski, 1993a, p. 58, 70, Fig. 10, nos. J-L. Gluchowski, Casier, and Olempska, 2006, p. 699, Fig. 3, no. K.
Devonian, Givetian - early Frasnian, Szykdlowek Beds; lower part of Wietrznia Beds; *Phlogoiderhynchus* Level; Kadzielnia Member; upper part of Sitkowka Beds; Detrital Beds. Poland

Schyschcatocrinus paucus (Dubatolova, 1964). Dubatolova, 1971, p. 80. Webster, 1977, p. 220.
Pentagonocyclicus paucus Dubatolova, 1964, p. 95, Pl. 14, figs. 5-7; Fig. 15. Dubatolova, 1971, p. 80. Webster, 1973, p. 309. Webster, 1977, p. 220.
Devonian, Famennian. Russia, Kuznetz Basin

Schyschcatocrinus setosus Dubatolova, 1975a, p. 23, Pl. 5, figs. 8-11; Fig. 14. Webster, 1986, p. 386.
Devonian, Givetian, Beisk Horizon. Russia, Southern Minusin Basin

Schyschcatocrinus spinosus Le Menn, 1981, p. 264, Pls. 32, figs. 24-25, 31; 33, figs. 12-16. Le Menn, 1985, p. 141, Pl. 31, figs. 10-16. Webster, 1988, p. 211.
Devonian, late Emsian, Marettes Formation. France, Armorican Massif

Schyschcatocrinus spinosus? Le Menn, 1981, p. 264, Pl. 33, figs. 21-26. Webster, 1988, p. 212.
Devonian, late Emsian. France, Armorican Massif

Schyschcatocrinus tatyanae Kurilenko *in* Kurilenko et al., 2002, p. 150, Pls. 64, fig. 13; 65, figs. 10-11. Kurilenko and Kulkov, 2008, p. 466, Fig. 4, no. E.
Devonian, Givetian, Oldoy Horizon, – early Frasnian, middle part of Aratunginsky Layer. Russia, Far East, Transbaikal

Schyschcatocrinus sp. A Gluchowski, 1993a, p. 58, Fig. 10, no. E.
Devonian, Givetian, Laskowa Gora Beds; Lower Wiertznia Beds; Dziewki Limestone; Debnik Limestone. Poland

Schyschcatocrinus sp. B Gluchowski, 1993a, p. 58, Fig. 10, no. F.
Devonian, Givetian, Laskowa Gora Beds. Poland

Schyschcatocrinus sp. Gluchowski, l982, p. 78, Pls. 27, figs. 2, 5-6; 29, figs. l-6. Webster, 1988, p. 212.
Devonian, Givetian, Skaly Beds: Poland

SCILLUS de Gregorio, 1930. **S. pauper* de Gregorio, 1930.
de Gregorio, 1930, p. 39. Bassler, 1938, p. 169. Bassler and Moodey, 1943, p. 674. Moore and Laudon, 1943b, p. 105. Webster, 1973, p. 319. Jeffords *in* Moore
and Teichert, 1978, p. T935.
Recognized number of named columnal species: 1Permian, Wordian species
Permian, Wordian. Sicily

**Scillus pauper* de Gregorio, 1930, p. 39, Pl. 14, fig. 8. Bassler, 1938, p. 169. Bassler and Moodey, 1943, p. 674.
Permian, Wordian, Sosio Limestone. Sicily

Scytalocrinidae gen. et sp. indet. 1 Haude and Thomas, 1992, p. 327, Pl. 3, fig. B (partly disarticulated cup).
Early Carboniferous, *Goniatites* Biozone, CuIIIa. Germany

Scytalocrinidae gen. et sp. indet. 2 Haude and Thomas, 1992, p. 327, Pl. 3, fig. C (partly disarticulated cup).
Early Carboniferous, *Goniatites* Biozone, CuIIIa. Germany

SCYPHOCRINITES Zenker, 1833.
Stukalina, 1978d, p. 73, Unnum. Fig. p. 72. Haude, 1981, p. 188, Fig. 2, middle. Webster, 1986, p. 386. Webster, 1988, p. 212. Chen and Yao, 1990, p. 230, Pl. 2, figs. 3a-3b; Fig. 3. Webster, 1993, p. 191.
Recognized number of named columnal species: 3 Siluran-Devonioan boundary beds species
Late Silurian - Early Devonian. China, Poland, Kazakhstan, United States

**Scyphocrinites elegans* Zenker, l833. Webster, 1973, p. 319. Gluchowski, 1981a, p. 101, Fig. 3. Gluchowski, 1981b, p. 34, Pl. 2, fig. 3. Webster, 1988, p. 212. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 291, Pl. 108, figs. 9-10.
Scyphocrinus elegans (Zenker, 1833). Schuchert, 1904, p. 263, Fig. 42, no. a. Termier, G. and Termier, H., 1950, p. 85, Pl. 213, figs. 6-13. Sieverts-Doreck, 1964, p. 3, Pl. 2. Webster, 1973, p. 319.
Late Silurian. Morocco
Silurian, late Podlasian, Rzepin Formation. Poland

Scyphocrinites mariannae (Yakovlev, 1953). Webster, 1973, p. 319. Stukalina, 1975, p. 141, Pl. 33, figs. 11-15. Webster, 1986, p. 386. Stukalina, 1988c, p. 61, Pl. 9, figs. 11-12. Webster, 1993, p. 191. Kurilenko *in* Kurilenko et al., 2002, p. 148, Ppls. 54, figs. 1-7; 55, figs. 1-6. Kurilenko and Kulkov, 2008, p. 464, Fig. 3, nos. D, N, Q.
Scyphocrinus marianne Yakovlev, 1953, p. 30, Pl. 3, fig. 3. Yakovlev, 1956a, p. 106, Fig. 39, no. 3. Yakovlev, 1958, p. 95, Fig. 39, no. 3. Yakovlev, 1964a, p. 101, Fig.
41, no. 3. Webster, 1973, p. 319.
Silurian - Devonian boundary beds, Ainasu Horizon. Russia, Kazakhstan
Devonian, Pridoli – early Lochovian; Pragian, Ildican Suite, Bolshoi Never Suite. Russia, Central Pribalkhash

Scyphocrinites sp. group *S. mariannae* (Yakovlev, 1953). Stukalina, 1991, p. 164, Pl. 37, figs. 1-5.
Devonian? Lochkovian, Ainasu Horizon. Kazakhstan

Scyphocrinites ulrichi (Schuchert, 1904). Brett, 1981b, p. 348, Fig. 3, no. E. Webster, 1988, p. 212.
Devonian, Lochkovian, Helderberg Group. United States, Oklahoma

Scyphocrinites spp.
Pinari, 1971, p. 51, Fig. 3; Unnum. Fig. p. 53, nos. 1-7.
Carboniferous, Rreshpe Argijiloro-Alevrito-Filitike. Albania
Haude *in* Gulliver, Haude and Seilacher, 1976, p. 308, Fig. 16-3, Diagramatic.
Stukalina, 1982d, p. 142, Unnum. Fig. p. 141. Webster, 1988, p. 212.
Devonian, Lochkovian (Gedinnian). Russia
Paillard, 1985, p. 104, Pl. 1, figs. 1-4; Unnum. Fig. p. 107 (Diagramatic). Webster, 1993, p. 191.
Middle Silurian. France
Brett, 1991, p. 331, Fig. 18, nos. N-O.
Silurian
Stukalina, 1991, p. 164, Pl. 36, fig. 3.
Devonian?, Lochkovian, Ainasu Horizon. Kazakhstan
Scyphocrinus spp.
Termier, G. and Termier, H., 1950, p. 204, Pl. 210, figs. 7-9. Webster, 1973, p. 319.
Silurian, Wenlockian. Morocco
Sangil, 1955, p. 251, Fig. 2, no. E. Webster, 1973, p. 319.
Diagramatic
Howell, 1995, p. 99, Pl. 4, fig. 5.
No age or locality given
Loboliths Yakovlev, 1953, p. 27, Pl. 2, figs. 1-6; Fig. 4. Yakovlev, 1956a, p. 110, Figs. 41, nos. 1-4; 42, nos. 3-4. Yakovlev, 1958, p. 95, Figs. 41, nos. 1-4; 42, os. 3-4. Yakovlev, 1964a, p. 99, Figs. 42, nos. 3-4; 44, nos. 1-4. Webster, 1973, p. 319.
Silurian. Kazakhstan
Silurian. Czech Republic

"*Scyphocrinites*" sp. Le Menn in Le Menn et al., 2002, p. 27, Pl. 2, Figs. 8-11.
Devonian, early Lochkovian, Xistos Raiados Formation. Portugal

Scyphocrinitid pluricolumnal Petr, 1984, p. 80, Fig. l. Webster, 1988, p. 212.
Silurian, Pridoli, Pridoli Formation. Czech Republic, Bohemia

Scyphocrinitidae gen. et sp. ind.
Entrochus doctus Barrande *in* Waagen and Jahn, 1899, p. 151, Pl. 72, case 3 (Given as *Encrinites* on plate explanation). Bassler and Moodey, 1943, p. 452.
Encrinites doctus Waagen and Jahn, 1899. Prokop and Petr, 1990, p. 21. Webster, 1993, p. 191.
Silurian, Pridoli, Pridoli Formation. Czech Republic, Bohemia
Encrinites margaritarum Waagen and Jahn, 1899, Pl. 71, figs. 8-11. Prokop and Petr, 1990, p. 32. Webster, 1993, p. 191.
Silurian, Pridoli, Pridoli Formation. Czech Republic, Bohemia

Encrinites medullosus Waagen and Jahn, 1899, Pl. 70, figs. 17-20 (only). Prokop and Petr, 1990, p. 32. Webster, 1993, p. 191.
Devonian, Lochkovian, Lochkov Formation. Czech Republic

Entrochus placidus Barrande *in* Waagen and Jahn, 1899, p. 149, Pl. 71, figs. 12-16 (Given as *Encrinites* on plate explanation). Bassler and Moodey, 1943, p. 453.
Encrinites placidus Waagen and Jahn, 1899. Prokop and Petr, 1990, p. 40. Webster, 1993, p. 191.
Silurian, Pridoli, Pridoli Formation. Czech Republic, Bohemia

Encrinites procerus Barrande *in* Waagen and Jahn, 1899, p. 135, Pls. 70, figs. 21-22; 79. Bassler and Moodey, 1943, p. 448. Prokop and Petr, 1990, p. 41. Webster, 1993, p. 191.
Silurian, Pridoli, Pridoli, Pridoli Formation. Czech Republic, Bohemia

Entrochus runicus Barrande *in* Waagen and Jahn, 1899, p. 150, Pl. 72, cases 1-2 (Given as *Encrinites* on plate explanation). Bassler and Moodey, 1943, p. 453.
Encrinites runicus (Waagen and Jahn, 1899). Prokop and Petr, 1990, p. 45. Webster, 1993, p. 191.
Silurian, Pridoli, Pridoli Formation. Czech Republic, Bohemia

Entrochus senior Barrande *in* Waagen and Jahn, 1899, p. 148, Pl. 71, figs. 5-7 (Given as *Encrinites* on plate explanation). Bassler and Moodey, 1943, p. 453.
Encrinites senior (Waagen and Jahn, 1899). Prokop and Petr, 1990, p. 46. Webster, 1993, p. 191.
Silurian, Pridoli, Pridoli Formation. Czech Republic, Bohemia

Entrochus simplicior Barrande *in* Waagen and Jahn, 1899, p. 147, Pl. 69, figs. 9-20 (Given as *Encrinites* on plate explanation). Bassler and Moodey, 1943, p. 453.
Encrinites simplicior Waagen and Jahn, 1899. Prokop and Petr, 1990, p. 46. Webster, 1993, p. 191.
Silurian, Pridoli, Pridoli Formation. Czech Republic, Bohemia

Restes indéterminés Waagen and Jahn, 1899, Pl. 72, fig. 4, nos. 1-3; fig. 5, nos. 1-3; fig. 6, nos. 1-3; fig. 7, nos. 1-3; fig. 8, nos. 1-5; fig. 9, nos. 1-3; fig. 10, nos. 1-3; fig. 11, nos. 1-3; fig. 12, nos. 1-3; fig. 14, nos. 1-4; fig. 15, nos. 1-3; fig. 16, nos. 1-3; fig. 17, nos. 1-3; fig. 18, nos. 1-3; fig. 19, nos. 1-3; Pl. 76, fig. 2, nos. 3-5, 11-18. Prokop and Petr, 1990, p. 52-54, 59. Webster, 1993, p. 191.
Silurian, Pridoli, Pridoli Formation. Czech Republic, Bohemia

Tiges d'encrines Waagen and Jahn, 1899, Pl. 78, fig. 1, nos. 4-9 (only). Prokop and Petr, 1990, p. 60. Webster, 1993, p. 191.
Silurian, Pridoli, Pridoli Formation. Czech Republic, Bohemia

Scyphocrinus elegans (Zenker, 1833) = *Scyphocrinites elegans*

Scyphocrinus marianne Yakovlev, 1953 = *Scyphocrinites mariannae*

Scyphocrinus sp. = *Scyphocrinites* spp.

Seelilienstielglieder Opitz, 1932, p. 169, Fig. 153.
Devonian, Taunusquarzit. Germany

SEGMENTOCOLUMNUS Donovan, 1986. **S. kildarensis* Donovan, 1986.
Donovan, 1986d, p. 59. Webster, 1993, p. 191. Donovan and Harper, 2003, p. 91.
Recognized number of named columnal species: 2 species. 1 Ordovician, Katian; 1 Silurian, Llandoverian
Ordovician, Katian; Silurian, Llandoverian. Ireland

Segmentococolumnus clarksoni Donovan and Harper, 2003, p. 91, Figs. 2, nos. A-B, D-F, H-I, K-L; 3. Donovan et al., 2007, p. 47, Fig. 11.
Silurian, late Llandovery, Telychian, Finny School Member, Kilbride Formation. Ireland

cf. *Segmentococolumnus clarksoni* Donovan and Harper, 2003, p. 92, Fig. 2, no. C.
Silurian, late Llandovery, Finny School Member, Kilbride Formation. Ireland

**Segmentocolumnus kildarensis* Donovan, 1986d, p. 59, Fig. 20, nos. J, N.
Ordovician, Katian (Ashgillian), Kildare Limestone. Ireland

Segments of stems of crinoids Potapenko and Stukalina, 1971a, p. 1162, Fig. 2, nos. 1-10. Webster, 1977, p. 230.
Probably middle Paleozoic, Adzhara Suite. Russia, Abkhazia, Main Caucasus Range

SEILLOUCRINUS Le Menn, 1970. **S. simplex* Le Menn, 1970.
Le Menn, 1970a, p. 47. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 317. Webster, 1977, p. 220. Webster, 1986, p. 386. Webster, 1988, p. 212. Webster, 1993, p. 191.
Recognized number of named columnal species: 2 Devonian species, 1 Pragian, 1 Emsian
Devonian, Pragian, Emsian. France

Seilloucrinus concentricus Le Menn, 1970 = *S. verneuili*

**Seilloucrinus simplex* Le Menn, 1970a, p. 48, Pl. 7, figs. 1-3. Le Menn, 1970b, p. 368, Fig. 5. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 318, Pl. 29, figs. 1-4. Webster, 1977, p. 220. Le Menn, 1985, p. 167, Pl. 37, figs. 2-6. Webster, 1986, p. 386. Le Menn, 1987b, p. 819, Fig. 10, no. A. Webster, 1988, p. 212. Webster, 1993, p. 192.
Devonian, Pragian (Siegenian), Graywacke de Faou Formation, Montguyon Formation. France, Armorican Massif

Seilloucrinus verneuili (Caillaud, 1861). Le Menn *in* Le Menn and Racheboeuf, 1976, p. 318, Pls. 29, figs. 14-16; 30, figs. 1-2. Le Menn, 1985, p. 168, Pls. 37, figs. 7-14; 38, figs. 1-3. Webster, 1986, p. 386. Le Menn, 1987b, p. 819, Fig. 10, no. B. Webster, 1988, p. 212. Webster, 1993, p. 192.
Poteriocrinus verneuili Caillaud, 1861. Le Menn *in* Le Menn and Racheboeuf, 1976,

p. 318. Webster, 1986, p. 386.
Seilloucrinus concentricus Le Menn, 1970a, p. 50, Pl. 8, figs. 1-2. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 318. Webster, 1977, p. 220. Webster, 1986, p. 386.
Devonian, early Emsian, Graywacke de Faou Formation, Montguyon Formation. France, Armorican Massif

SELENJACHICRINUS Stukalina, 1982. **Pentagonopentagonalis tschugaevae* Yeltyschewa, 1968.
Stukalina, 1982a, p. 194. Stukalina, 1986, p. 53. Webster, 1988, p. 212. Webster, 1993, p. 192.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. Russia

**Selenjachicrinus tschugaevae* (Yeltyschewa, 1968). Stukalina, 1982a, p. 194. Webster, 1988, p. 212.
Pentagonopentagonalis tschugaevae Yeltyschewa, 1968, p. 126, Pl. 23, fig. 2. Webster, 1988, p. 212.
Ordovician, Darriwilian, Tarniuryakh Suite. Northeastern Russia

SELLICRINUS Stukalina, 1980. **S. selliformis* Stukalina, 1980.
Stukalina, 1980d, p. 232. Stukalina, 1986, p. 65. Webster, 1986, p. 386. Webster, 1993, p. 192.
Recognized number of named columnal species: 1 Ordovician, Darriwilian species
Ordovician, Darriwilian. Northern Kazakhstan

**Sellicrinus selliformis* Stukalina, 1980d, p. 232, Pl. 2, figs. 5-6; Fig. 3, no. 4. Webster, 1986, p. 386.
Ordovician, Darriwilian, Erkebidaik Horizon. Northern Kazakhstan

SERENDIPOCRINUS Donovan, 1992.
Donovan, 1995b, p. 115.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian (Ashgillian). United Kingdom

**Serendipocrinus lamonti* Donovan, 1992. Donovan, 1995b, p. 115, Pl. 14, figs. 1-2.
Ordovician, Katian (Ashgillian). United Kingdom

SHISHKINAECRINUS Stukalina and Kurilenko, 1998. **Anthinocrinus petalatus* Yeltyschewa and Dubatolova *in* Dubatolova, Yeltyschewa and Modzalevskaja, 1967.
Stukalina, 1997, p. 66, *nomen nudum*. Stukalina, 1998, p. 20, Fig. 3, no. 2. Kurilenko
in Kurilenko et al., 2002, p. 155.
Recognized number of named columnal species: 2 Devonian speies, 1 Pragian, 1 Early Devonian uncertain
Early Devonian. Russia

Shichkinaecrinus partitus Kurilenko *in* Kurilenko et al., 2002, p. 156, Pl. 58, fig. 22. Kurilenko and Kulkov, 2008, p. 464, Fig. 2, no. M.
Devonian, Pragian, Ildican Suite, Bolshoi Never Suite; Eifelian, Bolsheneveresky Suite. Russia, Dalnego Vostoka

**Shishkinaecrinus petalatus* Yeltyschewa and Dubatolova *in* Dubatolova, Yeltyschewa and Modzalevskaja, 1967). Stukalina, 1998, p. 20.
Early Devonian. Russia, Far East

SIBIRICRINUS Stukalina, 1980. **S. disjunctus* Stukalina, 1980.
Stukalina, 1980b, p. 112. Stukalina, 1986, p. 62. Webster, 1986, p. 387. Webster, 1988, p. 212. Webster, 1993, p. 192.
Recognized number of named columnal species: 2 Silurian species, 1 Wenlockian, 1
Early Silurian uncertain
Silurian, Wenlockian. Kazakhstan; Russia

**Sibiricrinus disjunctus* Stukalina, 1980b, p. 113, Pl. 23, figs. 15-19; Fig. 19, on. 8. Stukalina, 1986, p. 62, Pl. 10, figs. 19-21. Webster, 1986, p. 387. Stukalina, 1988c, p. 47, Fig. 29, no. 6. Webster, 1993, p. 192.
Early Silurian. Southern Kazakhstan

Sibiricrinus helenae Yeltyschewa *in* Stukalina, 1982b, p. 155, Pl. 23, fig. 14; Fig. 29, no. a. Yeltyschewa, 1982, p. 176, Pl. 2, figs. 1-2. Milicina, 1985, p. 50, Pl. III, fig. 10. Stukalina, 1986, p. 62, Pl. 31, fig. 1. Stukalina, 1988c, p. 62, Pl. 10, figs. 1-3. Webster, 1988, p. 213. Webster, 1993, p. 192. Stukalina, 2000, p. 47, Pls. 17, fig.
1; 18, figs. 1- 4, 7 (non fig. 8 as given p. 46); 20, figs. 7-8; 21, fig. 1, 24, fig. 1; Fig. 10, no. 1.
Silurian, Wenlockian, Khakom Horizon, Uragdan Suite, Elegest Suite, Zlegestskaya Suite, Akchalym Layer, Klenov Suite. Russia, Siberian Platform, Tuva, Nova Zemyla, Central Tuva

SIDERICRINUS Stukalina, 1968. **S. depressus* Stukalina, 1968.
Stukalina, 1968c, p. 84. Stukalina, 1970b, p. 76. Webster, 1973, p. 320. Webster, 1977, p. 220. Jeffords *in* Moore and Teichert, 1978, p. T935. Stukalina, 1986, p. 53. Donovan, 1986d, p. 56. Webster, 1986, p. 387. Webster, 1988, p. 213. Webster, 1993, p. 192.
Recognized number of named columnal species: 7 Ordovician species, 2 Sandbian, 5 Katian
Ordovician, Sandbian - Katian. Kazakhstan
Ordovician, Katian. United Kingdom, Russia

Sidericrinus asperum Stukalina, 1979a, p. 138, Pl. 30, fig. 3; Fig. 33, no. g. Webster, 1986, p. 387.
Ordovician, Katian, Ket Horizon, Bur Subhorizon. Russia, Central Siberia

Sidericrinus birtlei Donovan, 1986d, p. 57, Pl. 4, fig. 4; Fig. 17, no. H (not Fig. 21, no. H, as given p. 57). Webster, 1993, p. 192.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Sidericrinus comprehensius Donovan, 1986d, p. 57, Pl. 4, figs. 1, 7-8; Fig. 20, no. K. Webster, 1993, p. 192.
Ordovician, Katian (Ashgillian). United Kingdom

**Sidericrinus depressus* Stukalina, 1968c, p. 84, Fig. 2, nos. v-s. Stukalina, 1970b, p. 76, Fig. 2, nos. c-d. Webster, 1973, p. 320. Webster, 1977, p. 221. Stukalina, 1985, p. 177, Pl. 1, figs. 9-10. Stukalina, 1986, p. 53, Pl. 5, figs. 5-8; Fig. 13, no. 8. Stukalina, 1988c, p. 56, Pl. 2, figs. 4-6. Webster, 1988, p. 213. Webster, 1993, p. 192.
Ordovician, Sandbian (Caradovian), Anderken Horizon. Kazakhstan

Sidericrinus giganteus Stukalina, 1980b, p. 97, Pl. 22, figs. 1-2. Webster, 1986, p. 387.
Ordovician, Katian, Dulankaren Horizon, Akklo Limestone. Southern Kazakhstan

Sidericrinus multiformis Stukalina *in* Stukalina and Tujutjan, 1970, p. 61, Figs. 1, no. 1; 5. Webster, 1977, p. 221. Stukalina, 1986, p. 53, Pl. 5, figs. 9-11. Webster, 1993, p. 192.
Ordovician, Katian, lower part of Kulunbulak Suite, layer with *Amsassia chaetetoides*. Eastern Kazakhstan

Sidericrinus sholeshookensis Donovan, 1986d, p. 58, Fig. 17, nos. E-F. Webster, 1993, p. 192.
Ordovician, Katian (Ashgillian), Sholeshook Limestone Formation. United Kingdom

Sidericrinus sp. Stukalina, 1988c, p. 57, Pl. 3, fig. 5. Webster, 1993, p. 193.
Ordovician, Sandbian, Anderken Horizon. Kazakhstan

SIGILLATOCRINUS Stukalina, 1980. **S. sigillatus* Stukalina, 1980.
Stukalina, 1980b, p. 108. Stukalina, 1986, p. 66. Webster, 1986, p. 387. Webster, 1993, p. 193.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Kazakhstan

**Sigillatocrinus sigillatus* Stukalina, 1980b, p. 108, Pl. 23, figs. 4-6; Fig. 19, no. 3. Stukalina, 1986, p. 66, Pl. 14, figs. 2-4; Fig. 10, no. 10. Webster, 1986, p. 387. Stukalina, 1988c, p. 41, Fig. 26, no. 6. Webster, 1993, p. 193.
Ordovician, Sandbian, equivalent of Anderken Horizon. Eastern Kazakhstan

Silicified crinoid ossicles Krings *et al.*, 1987, p. 35, Pl. 4, figs. 4-5.
Mississippian, uppermost Viséan?. Belgium

SILUROCRINUS Stukalina, 1969. *Nomen nudum*
Stukalina, 1969, p. 206. Jeffords *in* Moore and Teichert, 1978, p. T937.

Simple discoidal holdfast Brett, 1981b, p. 348, Fig. 3, no. I. Webster, 1988, p. 213.
Ordovician, Katian, Bobcaygeon Limestone. Canada, Ontario

SIMPLOCRINUS Hynda, 1984. **Cyclocyclicus crassiformis* Yeltyschewa, 1964. Hynda, 1984, p. 61. Hynda, 1986, p. 99. Webster, 1988, p. 213. Webster, 1993, p. 193.
Recognized number of named columnal species: 1 Ordovician, Dapingian species
Ordovician, Dapingian. Estonia

**Simplocrinus crassiformis* (Yeltyschewa, 1964). Hynda, 1984, p. 61, Pl. 1, figs. 11, 12; Fig. 5. Hynda, 1986, p. 100, Pls. 15, fig. 12; 16, figs. 5-8; Fig. 40. Webster, 1988, p. 213. Webster, 1993, p. 193.
Cyclocyclicus crassiformis Yeltyschewa, 1964a, p. 76, Pl. 2, fig. 10. Webster, 1973, p. 285. Hynda, 1984, p. 61. Webster, 1988, p. 213.
Ordovician, Dapingian. Estonia, southwestern part of the East European Platform

SINOCYCLOCYCLICUS Xue, Tang, and Yu, 1992. **S. guizhouensis* Xue, Tang, and Yu, 1992.
Xue, Tang, and Yu, 1992, p. 532.
Recognized number of named columnal species: 2 Precambbrian, Sinian species
Precambrian, Sinian. China, Guizhou

**Sinocyclocyclicus guizhouensis* Xue, Tang, and Yu, 1992, p. 533, Pl. 2, figs. 1a-3.
Precambrian, Late Sinian, Doushantuo Formation. China, Guizhou

Sinocyclocyclicus centriporatus Xue, Tang, and Yu, 1992, p. 533, Pl. 2, figs. 4a-6.
Precambrian, Late Sinian, Doushantuo Formation. China, Guizhou

Slab of loose columnals Yeltyschewa, 1966, p. 68, Pl. 1, fig. 20. Webster, 1973, p. 332.
Middle Ordovician. Estonia

Small columnal of unknown origin Sprinkle, 1971, p. D94, Fig. 1, no. 79. Webster, 1977, p. 230.
Ordovician, Darriwilian, Antelope Valley Limestone. United States, Nevada

Small roots with cirri Ruhrmann, 1971a, p. 67, Fig. 6, nos. a-e. Webster, 1977, p. 230.
Ordovician. Sweden

Small, simple discoid holdfast Ausich and Copper, 2010, p. 75, Pl. 14, figs. 5, 9.
Silurian, Llandoverian, Jupiter Formation, Goéland Member. Canada, Quebec, Anticosti Island

Small stellate holdfast Brett and Liddell, 1978, p. 340, Fig. 5, no. I. Webster, 1986, p. 400.
Ordovician, Katian (Trentonian), Bobcaygeon Formation. Canada, Ontario

Small digitate holdfasts Brett and Liddell, 1978, p. 340, Fig. 5, no. F. Webster, 1986, p. 400.
Ordovician, Katian (Trentonian), Bobcaygeon Formation. Canada, Ontario

SOKOLOVICRINUS Yeltyschewa, 1968. **S. dnestrowensis* Yeltyschewa, 1968.
Yeltyschewa, 1968, p. 42. Webster, 1973, p. 320. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1988, p. 213.
Recognized number of named columnal species: 5 species. 1 Ordovician Dapingian, 1 Early Ordovician uncertain, 3 Silurian, 1 Early Silurian, 2 Silruian uncertain
Ordovician, Dapingian; - Silurian: Russia

Sokolovicrinus bifidus Yeltyschewa, 1968, p. 43, Pl. 5, fig. 16. Webster, 1973, p. 320.
Silurian, Skal Horizon. Russia, Podolia

**Sokolovicrinus dnestrowensis* Yeltyschewa, 1968, p. 42, Pl. 5, figs. 17-19. Webster, 1973, p. 320.
Silurian, Skal Horizon. Russia, Podolia

Sokolovicrinus elegestus Yeltyschewa, 1982, p. 177, Pl. 2, figs. 6-7. Webster, 1988, p. 213.
Early Silurian, lower part of Elegest Suite. Russia, Tuva

Sokolovicrinus estonus Yeltyschewa, 1968c, p. 42 (*nomen nudum*). Webster, 1973, p. 320.
Early Ordovician. Russia

Sokolovicrinus lesnikovae (Yeltyschewa, 1964). Yeltyschewa, 1968, p. 42. Webster, 1973, p. 320.
Pentagonocyclicus lesnikovae Yeltyschewa, 1964a, p. 74, Pl. 2, fig. 15. Yeltyschewa, 1968, p. 42. Webster, 1973, p. 320.
Ordovician, Dapingian. Estonia

SOLACOLUMNUS Donovan, 1995. **S. rotundus* Donovan, 1995.
Donovan, 1995b, p. 163.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian (Ashgillian). United Kingdom

**Solacolumnus rotundus* Donovan, 1995b, p. 163, Pl. 25, figs. 10-11; Fig. 52, nos. I-J.
Ordovician, Katian (Ashgillian), Sholeshook Limestone. United Kingdom

SOSTRONOCRINUS Strimple and McGinnis, 1969.
Recognized number of named columnal species: 1 Devonian, Famennian species
Devonian, Famennian. United Kingdom

Sostronocrinus mundus Whidborne, 1898). Donovan and Ewin, 2010, p. 15, Fig. 1, nos. A-B.
Devonian Famennian, Pilton Formation. United Kingdom, north Devon

Sp. indet.
Stukalina, 1986, p. 140, Pl. 30, figs. 16-17. Webster, 1993, p. 193.
Ordovician, Sandbian – Katian, Obikalon Layer. Uzbekhistan, Southern Tien Shan
Stukalina, 1986, p. 140, Pl. 30, figs. 18-21. Webster, 1993, p. 193.
Ordovician, Sandbian – Katian, Obikalon Layer. Uzbekhstan, Southern Tien Shan
Stukalina, 1988c, p. 65, Pl. 13, figs. 25-26. Webster, 1993, p. 193.
Ordovician, Sandbian, Anderken Horizon. Kazakhstan
Stukalina, 2000, p. 102, Pl. 4, fig. 2.
Early Silurian, Khaastyrsky Horizon, upper part of Ugiyuksky Suite. Russia, Siberian Platform

Sp. indet. 1 Stukalina, 1985a, p. 198, Pl. 3, fig. 16. Webster, 1988, p. 213.
Middle Ordovician. Central Kazakhstan

Sp. indet. 2 Stukalina, 1985a, p. 198, Pl. 3, figs. 17-18. Webster, 1988, p. 213.
Middle Ordovician. Central Kazakhstan

Sp. indet. III Stukalina, 1982b, p. 144, Fig. 28, no. z. Webster, 1988, p. 213.
Early Silurian. Russia, Siberian Platform

SPHENOCRINUS Eichwald, 1856. **S. obtusus* Eichwald, 1856.
Eichwald, 1856, p. 125. Bigsby, 1868, p. 23. Zittel, 1880, p. 380. Bather *in* Lankester, 1900, p. 203. Bassler, 1938, p. 173. Bassler and Moodey, 1943, p. 682. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 5 Ordovician species, 3 Dapingian, 1 Dapingian – Darriwilian, 1 Darriwilian
Ordovician, Dapingian - Darriwilian. Estonia

Sphenocrinus iruensis Yeltyschewa, 1964a, p. 64, Pl. 2, figs. 16-18. Webster, 1973, p. 320.
Ordovician, Darriwilian. Estonia

Sphenocrinus multisulcatus Yeltsychewa, 1964a, p. 63, Pl. 2, fig. 9. Webster, 1973, p. 320.
Ordovician, Dapingian. Estonia

**Sphenocrinus obtusus* Eichwald, 1856, p. 125. Bigsby, 1868, p. 23. Bassler, 1938, p. 173. Bassler and Moodey, 1943, p. 682. Yeltyschewa, 1964a, p. 61, Pls. 2, figs. 1-8; 4, fig. 25 (*non* Pl. 1, figs. 1-8 as given in text). Webster, 1973, p. 320.
Ordovician, Dapingian - Darriwilian. Estonia

Sphenocrinus quinquevalatus Yeltyschewa, 1964a, p. 63, Pl. 2, fig. 11. Webster, 1973, p. 320.
Ordovician, Dapingian. Estonia

Sphenocrinus rarisulcatus Yeltyschewa, 1964a, p. 62, Pls. 2, figs. 12-14; 4, fig. 26. Webster, 1973, p. 320.
Ordovician, Dapingian. Estonia

SPINICRINUS Stukalina, 1966. *Nomen nudum*
Stukalina, 1966, p. 98. Stukalina, 1969, p. 204. Jeffords *in* Moore and Teichert, 1978, p. T937.
Late Ordovician - Early Silurian. Russia

Spinicrinus aktschetauensis Stukalina, 1966, p. 98 (*nomen nudum*).

SQUAMEOCRINUS Stukalina, 1968. **Pentagonopentagonalis privus* Yeltyschewa, 1964.
Stukalina, 1968c, p. 83. Stukalina, 1970b, p. 74. Webster, 1973, p. 320. Webster, 1977, p. 221. Jeffords *in* Moore and Teichert, 1978, p. T935. Hynda, 1986, p. 80. Stukalina, 1986, p. 52. Webster, 1986, p. 387. Webster, 1988, p. 213. Webster, 1993, p. 193.
Recognized number of named columnal species: 6 species. 5 Ordovician, 1 Darriwilian, 3 Sandbian, 1 Katian; 1 Silurian, Llandoverian
Ordovician, Darrwilian. Estonia, Kazakhstan
Ordovician, Sandbian. Silurian, Llandoverian. Kazakhstan, Russia
Ordovician, Katian. Kazakhstan

Squameocrinus integrum (Schewtschenko, 1971). Stukalina, 1978a, p. 158, Pl. 35, fig. 7. Stukalina, 1986, p. 52, Pl. 5, figs. 2-3. Webster, 1986, p. 387. Stukalina, 1988c, p. 56, Pl. 2, figs. 1-2. Webster, 1993, p. 193. Rakhmonov, 2008, p. 128, Pl. 108, figs. 15-18.
Pentagonopentagonalis integrum Schewtschenko, 1971, p. 17, Pl. 4, figs. 5-7; Fig. 18. Webster, 1977, p. 215. Stukalina, 1978a, p. 158. Webster, 1986, p. 387.
Pentagonopentagonalis aspectabilis Schewtschenko, 1971, p. 16, Pl. 4, fig. 11; Fig. 16. Webster, 1977, p. 215. Stukalina, 1978a, p. 158. Webster, 1986, p. 387.
Silurian, early - middle Llandoverian, Minkuchar Layer; Alpei Horizon, layer with *Pentamerus longiseptatus*. Uzbekhstan, Tien Shan, Kazakhstan, Zeravshan-Gissar Mountain Region

Squameocrinus papillatus Hynda, 1986, p. 81, Pl. 13, figs. 3-4; Fig. 28. Webster, 1993, p. 193.
Ordovician, Sandbian, Kukruze and Malenkimi Horizons. Russia, Eastern European Platform

**Squameocrinus privus* (Yeltyschewa, 1964). Stukalina, 1968c, p. 83. Stukalina, 1970b, p. 74. Webster, 1973, p. 320. Webster, 1977, p. 221. Stukalina, 1986, p. 52, Pl. 5, fig. 1. Stukalina, 1988c, p. 56, Pl. 2, fig. 3. Webster, 1993, p. 193.
Pentagonopentagonalis privus Yeltyschewa, 1964a, p. 69, Pl. 3, figs. 10-11. Webster, 1973, p. 320.
Ordovician, Darriwilian, Kunda Horizon. Estonia
Ordovician, Darriwilian. Kazakhstan

Squameocrinus squamosus Yeltyschewa and Stukalina *in* Zanina, 1972, p. 287, Pl. 60, fig. 3. Webster, 1977, p. 221. Stukalina, 1986, p. 52, Pl. 5, fig. 4. Webster, 1993, p. 193.
Ordovician, Sandbian, Anderken Horizon. Kazakhstan, Chu-Iliyski Mountains, Chingiz

Squameocrinus subsquamosus Stukalina *in* Zanina, 1972, p. 287, Pl. 60, fig. 4. Webster, 1977, p. 221.
Ordovician, Katian, Dzhamanshuruk Suite, Dulankaren Horizon. Kazakhstan, Pribalkhash, Chu-Iliy Mountain

Squameocrinus tchunensis Stukalina, 1979a, p. 137, Pl. 30, fig. 2; Fig. 33, no. a (given as *Apertocrinus tchunensis* on p. 138 and p. 233). Stukalina, 1984, p. 97, Pl. 37, fig. 1. Stukalina, 1986, p. 27, Fig. 10, no. 5. Webster, 1986, p. 387. Webster, 1988, p. 213. Webster, 1993, p. 194.
Squameocrinus thunensis Stukalina, 1979. Stukalina, 1988c, p. 56, Pl. 2, fig. 17 (sic).
Ordovician, Sandbian, Baksan Horizon; Dolbor Horizon. Russia, Siberian Platform

Squameocrinus thunensis Stukalina, 1979 = *Squameocrinus tchunensis*

Squameocrinus spp.
Gluchowski, 1977, p. 309, Fig. 4. Webster, 1986, p. 388.
Ordovician, Katian. Kazakhstan
Botquelen, Le Menn, and Loi, p. 20, Fig. 3, no. 27.
Ordovician, Katian (Ashgillian), Portixeddu Formation. Sardinia, Algeria

St Cuthbert's beads Lane and Ausich, 2001, p. 66, Figs. 2-3.
Mississippian, Middle Limestone Group. United Kingdom,

Stake-like rhizomes Ruhrmann, 1971a, p. 76, Fig. 11, nos. b-c. Webster, 1977, p. 230.
Silurian. Gotland

Stake-like roots Ruhrmann, 1971a, p. 81, Fig. 16, no. b. Webster, 1977, p. 230.
Silurian. Gotland

Stalk or column fragments Lincklaen, 1861, Pl. 35, figs. 2-5.
Devonian, Portage Group. United States, New York

Star shaped columnals Sprinkle, 1971, p. D91, Fig. 1, nos. 26-27. Webster, 1977, p. 230.
Ordovician, Darriwilian, Antelope Valley Limestone. United States, Nevada

Star-shaped crinoid columnal Sumrall, Sprinkle, and Bonem, p. 230, Fig. 2.10.
Pennsylvanian, Morrowan, Golf Course Formation, unnamed unit 1. United States,

Oklahoma

Steileiner Seelilie Opitz, 1932, p. 94, Fig. 91.
Devonian, Dachschiefer. Germany

STELLACOLUMNUS Donovan, 1995. **S. pawsoni* Donovan, 1995.
Donovan, 1995b, p. 164.
Recognized number of named columnal species: 1 Ordovician, Darriwiliian species
Ordovician, Darriwilian, late Llandeilian. United Kingdom

**Stellacolumnus pawsoni* Donovan, 1995b, p. 164, Pl. 26, figs. 3, 8.
Ordovician, Darriwilian, (late Llandeilian). United Kingdom

Stellacolumnus sp. A Donovan, 1995b, p. 164, Fig. 52, nos. L-M.
Ordovician, Darriwilian, (late Llanvirian), Ffairfach Group. United Kingdom

Stellacolumnus sp. B Donovan, 1995b, p. 165, Fig. 52, nos. N-O.
Ordovician, Darriwilian, (late Llanvirian), Ffairfach Group. United Kingdom

Stellacolumnus sp. C Donovan, 1995b, p. 165, Fig. 54.
Ordovician, Katian (Ashgillian), Sholeshook Limestone. United Kingdom

Stellacolumnus sp. D Donovan, 1995b, p. 165, Fig. 52, no. K.
Ordovician, Katian (Arenigian). United Kingdom

Stellaricrinidae Stukalina, 1986, p. 96, Fig. 29, no. 1. Stukalina, 1988c, p. 44, Fig. 28, no. 1. Webster, 1993, p. 194.
Early - Late Ordovician

STELLARICRINUS Stukalina, 1982. **S. stellaris* Stukalina, 1982.
Stukalina, 1982b, p. 150. Stukalina, 1986, p. 52. Webster, 1988, p. 214. Webster, 1993, p. 194.
Recognized number of named columnal species: 1Silurian Llandoverian species
Silurian, Llandoverian. Russia, Siberian Platform

**Stellaricrinus stellaris* Stukalina, 1982b, p. 150, Pl. 23, fig. 1; Fig. 28, nos. zh, z. Stukalina, 1986, p. 52, Pl. 5, fig. 12. Webster, 1988, p. 214. Webster, 1993, p. 194. Stukalina, 2000, p. 33, Pl. 9, fig. 1; Fig. 6, no. 3.
Silurian, Llandoverian, Khaastyr Horizon, Ugiyuk Suite. Russia, Siberian Platform

Stem
Ruhrmann, 1971b, p. 237, Fig. 6. Webster, 1977, p. 230.
Devonian. Spain
Ruhrmann, 1971b, p. 237, Fig. 7, no. b. Webster, 1977, p. 230.
Devonian, LaVid Shale. Spain
Stukalina and Shulza, 1993, p. 97, Pl. 2, fig. 3.
Carboniferous, Oleskov Suite. Russia, Lvov-Volyn Basin

Stukalina and Shulza, 1993, p. 97, Pl. 2, fig. 4.
Carboniferous, Porit Suite. Russia, Lvov-Volyn Basin
Stukalina and Shulza, 1993, p. 97, Pl. 2, fig. 5.
Carboniferous, Porit Suite. Russia, Lvov-Volyn Basin

Stem A Guensburg and Sprinkle, 2003, p. 25, Pl. 9, figs. 3-4.
Ordovician, early Tremadocian, lower part of Fillmore Formation. United States, Utah

Stem B Guensburg and Sprinkle, 2003, p. 25, Pl. 9, fig. 5.
Ordovician, early Tremadocian, lower part of Fillmore Formation. United States, Utah

Stem columnals Mossler and Benson, 1995, p. 2, unnumbered plate, 6 figures.
Ordovician, Katian, Decorah Shale. United States, Minnesota

Stem fragment
Stukalina and Shulza, 1993, p. 97, Pl. 1, fig. 5.
Carboniferous, Ivanich Suite. Russia, Lvov-Volyn Basin
Stukalina and Shulza, 1993, p. 97, Pl. 1, fig. 7.
Carboniferous, Bladimir Suite. Russia, Lvov-Volyn Basin
Stukalina and Shulza, 1993, p. 97, Pl. 1, fig. 8.
Carboniferous, Morozovich Suite. Russia, Lvov-Volyn Basin
Stukalina and Shulza, 1993, p. 97, Pl. 2, fig. 1.
Carboniferous, Bladimir Suite. Russia, Lvov-Volyn Basin
Stukalina and Shulza, 1993, p. 97, Pl. 2, fig. 2.
Carboniferous, Bladimir Suite. Russia, Lvov-Volyn Basin
Stukalina and Shulza, 1993, p. 97, Pl. 2, fig. 6.
Carboniferous, Porit Suite. Russia, Lvov-Volyn Basin
Gluchowski, 2005, p. 316, Fig. 2, No. C.
Devonian, late Eifelian, Skaly Beds. Poland

Stem fragment with spines Südkamp, 2007, p. 196. Fig. 13, nos. D-E.
Devonian, early Emsian, Hunsrückschiefer. Germany

Stem fragment with very striking axial canal Kutscher, 1971, p. 115, Pl. 1. Webster, 1977, p. 230.
Devonian, Emsian,Hunsrückschiefer. Germany

Stem holdfast Lane, 1963c, p. 1003, Pl. 128, fig. 2. Webster, 1973, p. 332.
Mississippian. Osagean. United States, Indiana

Stem of undetermined crinoids Branisa, 1965, Pl. 54, figs. 10, 21-13. Webster, 1977, p. 231.
Early Permian, Copacabana Group. Bolivia

Stem segments Lane, 1973, p. 72, Fig. 15. Webster, 1977, p. 231.
Mississippian, Viséan (Osagean), Edwardsville Member. United States, Indiana

Stem with gall-like deformation Franzén, 1973, p. 293, Fig. 8. Webster, 1986, p. 400.
Early Devonian. Morocco

Stem with grasping cirri on bryozoan Brower and Veinus, 1978, p. 475, Pl. 24, fig. 19. Webster, 1986, p. 400.
Ordovician, Katian, Decorah Shale. United States, Minnesota

Stem with superficially secreted skeletal mateial Franzén, 1973, p. 291, Fig. 5, no. A. Webster, 1986, p. 400.
Silurian, early Wenlockian, Högklint Beds. Sweden, Isle of Gotland

Stems Stukalina and Shulza, 1993, Pl. 2, fig. 7.
Carboniferous, Bladimir Suite. Russia, Lvov-Volyn Basin

Stems and cirri Stukalina and Shulza, 1993, p. 97, Pl. 1, fig. 6.
Carboniferous, Buzhai Suite. Russia, Lvov-Volyn Basin

Stems and loose columnals of crinoids Branisa, 1965, Pl. 54, fig. 20. Webster, 1977, p. 231.
Early Permian, Copacabana Group. Bolivia

Stems and stem fragments Yeltyschewa, 1968, p. 12,13, Figs. 10-14. Webster, 1988, p. 214.
Middle Ordovician. Russia

Stems of Crinoidea Wenjukoff, 1886, p. 32.
Devonian. Russia

Stems of crinoids Smith, J., 1911, p. 141, Pl. 16, fig. bottom center.
Mississippian. United Kingdom, Isle of Mann

STENOCRINUS Dubatolova, 1971. **S. bifurcatus* Dubatolova, 1971.
Dubatolova, 1971, p. 82. Webster, 1977, p. 221. Jeffords *in* Moore and Teichert, 1978, p. T935. Webster, 1986, p. 388. Webster, 1993, p. 194.
Recognized number of named columnal species: 16 Devonian species: 2 Emsian, 1 Emsian – Eifelian, 5 Eifelian, 2 Eifelian – Givetian, 2 Givetian, 1 Givetian – Frasnian, 1 Givetian – Famennian, 1 Frasnian, 1 Famennian,
Devonian, Emsian - Famennian. Russia
Devonian, Eifelian – Givetian. Poland
Devonian, Famennian. United Kingdom

Stenocrinus altus Sisova, 1988, p. 147, Pl. 1, figs. 2-3. Webster, 1993, p. 194.
Gluchowski, 2002, p. 322, Fig. 2, nos. I-J. Gluchowski and Racki, 2005, p. 169, Fig. 5, no. G.
Devonian, Famennian, Sultsiferovii Horizon, Ustkaragandin Layer. Russia, Kazakhstan
Devonian, Famennian, *Pa. triangularis* to *S. praesulcata* Biozones; Pilton Beds.

Poland; United Kingdom, North Devon

Stenocrinus artus Dubatolova, 1980, p. 139, Pl. 21, fig. 3; Fig. 32. Webster, 1986, p. 388.
Devonian, Eifelian. Russia, Altai Mountains

**Stenocrinus bifurcatus* Dubatolova, 1971, p. 83, Pl. 10, figs. 4-5; Fig. 39. Milicina, 1977b, p. 135, Pl. 5, fig. 5; Fig. 12. Webster, 1977, p. 221. Webster, 1986, p. 388.
Devonian, Eifelian. Russia, Salair, Altai Mountains

Stenocrinus cf. *bifurcatus* Dubatolova, 1971. Gluchowski, 1993a, p. 60, Fig. 11, no. D.
Devonian, Eifelian-Givetian boundary - Givetian, Skaly Beds; Laskowa Gora Beds. Poland

Stenocrinus compressus Dubatolova, 1980, p. 138, Pl. 21, figs. 1-2; Fig. 31. Webster, 1986, p. 388.
Devonian, Eifelian. Russia, Altai Mountains

Stenocrinus conciliatus Dubatolova, 1980, p. 135, Pl. 20, figs. 7-8; Fig. 27. Webster, 1986, p. 388.
Devonian, late Emsian, Zlikhov Layer. Russia, Altai Mountains

Stenocrinus degradus Dubatolova, 1975a, p. 21, Pl. 5, figs. 2-3; Fig. 12. Gluchowski, 1981b, p. 42, Pl. 3, fig. 17. Dubatolova and Dubatolova, 1982, p. 41, Pl. 1, figs. 12-14; Fig. 4. Webster, 1986, p. 388. Webster, 1988, p. 214. Gluchowski, 1993a, p. 58, Fig. 11, nos. B-C.
Devonian, Givetian-Famennian, Tashtip Horizon: Poland; Russia, Southern Minusin and Tuvin Basins
Devonian, Eifelian-Givetian boundary - Givetian, Skaly Beds, Laskowa Gora Beds; lower part of Wietrznia Beds; *Stringocephalus* Beds; Crinoid-coral Level; Jazwica Member; Dziewki Limestone; Debnik Limestone. Poland

Stenocrinus festivus Dubatolova, 1980, p. 138, Pl. 20, figs. 11-12; Fig. 29. Webster, 1986, p. 388.
Devonian, late Emsian, Zlikhov Layer. Russia, Altai Mountains

Stenocrinus hodarevi Zinevich, 1988, p. 86, Pl. 19, fig. 5; Fig. p. 81, no. zh. Webster, 1993, p. 194.
Devonian, Eifelian, Losishin Suite. Russia, Altai Mountains

Stenocrinus longispinosus Zinevich, 1988, p. 85, Pl. 19, figs. 1-4; Fig. p. 81, no. e. Webster, 1993, p. 194.
Devonian, Eifelian, Losishin Suite. Russia, Altai Mountains

Stenocrinus mundus (Dubatolova, 1964). Dubatolova, 1971, p. 83. Webster, 1977, p. 221.
Pentagonocyclicus mundus Dubatolova, 1964, p. 89, Pl. 13, figs. 7-8. Dubatolova,

1971, p. 83. Webster, 1973, p. 309. Webster, 1977, p. 221.
Devonian, Givetian. Russia, Kuznetz Basin

Stenocrinus obscurus (Dubatolova, 1964). Dubatolova, 1971, p. 83. Webster, 1977, p. 221.
Pentagonocyclicus obscurus Dubatolova, 1964, p. 90, Pl. 13, figs. 5-6. Dubatolova, 1971, p. 83. Webster, 1973, p. 309. Webster, 1977, p. 221.
Devonian, Givetian. Russia, Kuznetz Basin

Stenocrinus paragaudius (Dubatolova, 1964). Dubatolova, 1971, p. 83. Webster, 1977, p. 221.
Pentagonocyclicus paragaudius Dubatolova, 1964, p. 93, Pl. 14, fig. 4. Dubatolova, 1971, p. 83. Webster, 1973, p. 309. Webster, 1977, p. 221.
Devonian, Frasnian. Russia, Kuznetz Basin

Stenocrinus raricostatus Gluchowski, 1993a, p. 60, Fig. 11, no. A. Gluchowski, Casier, and Olempska, 2006, p. 701, Fig. 3, no. M.
Devonian, Givetian - Frasnian, Laskowra Gora Beds; Szydlowek Beds; Wietrznia Beds; *Stringocephalus* Beds; Crinoid-Coral Level; *Tenticospirifer* Level; Kadzielnia Member; Checiny Beds; Sitkowka Beds. Poland

Stenocrinus rasilis Dubatolova, 1980, p. 138, Pl. 20, figs. 13-14; Fig. 30. Webster, 1986, p. 388. Dubatolova, 1988, p. 74, Pl. 15, figs. 11-14; Fig. p. 68, no. m. Webster, 1993, p. 194.
Middle Devonian, Ilin Suite (upper part of Beloubin Suite). Russia, Altai Mountains

Stenocrinus vladimiri Dubatolova, 1980, p. 136, Pl. 20, figs. 9-10; Fig. 28. Webster, 1986, p. 388.
Devonian, late Emsian-Eifelian, Zlikhov Layer. Russia, Altai Mountains

Stenocrinus spp.
Le Menn, 1988b, p. 472, Pl. 54, fig. 30. Webster, 1993, p. 194.
Devonian, Givetian, Blacourt Formation, Griset Member. France
Le Menn *in* Ures, Le Menn, and Hladil, 1999, p. 330, Pl. 1, fig. 28.
Devonian, Givetian, Celechovice Beds. Czech Republic, Moravia

Stererobrachicrinus Mather, 1915
Recognized number of named columnal species: 1 Pennsylvanian, Morrowan species
Pennsylvanian, Morrowan. United States, Oklahoma

Stereobrachicrinus pustullosus Mather, 1915 Moore and Laudon, 1944, p. 209, Pl. 79, fig. 12 (sic).
Stereobrachiocrinus pustullosus Mather, 1915. Webster, 1973, p. 320.
Pennsylvanian, Morrowan. United States, Oklahoma

Stereobrachiocrinus pustullosus Mather, 1915= *Stereobrachicrinus pustullosus*

STIBEROSTAURUS Moore and Jeffords, 1968. **S. aestimatus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 61. Webster, 1973, p. 320. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 1 i Mississippian, Viséan species
Mississippian, Viséan (Osagean). United States

**Stiberostaurus aestimatus* Moore and Jeffords, 1968, p. 61, Pls. 12, figs. 5-7; 13, figs. 4-5. Webster, 1973, p. 320. Velasco de Leon and Sanchez, 1992, p. 74, Pl. 1, figs. 1-3.
Mississippian, Viséan (Osagean), New Providence Shale; basal part of Patlanoaya Formation. United States, Kentucky; Mexico

Stielglieder und Säulenstückchen Toula, 1875, p. 574, Pl. 5, figs. 9, 12.
Carboniferous. Norway, Barents Island

Stielglieder vielleicht von *Actinocrinus laevis.* Toula, 1875, p. 574, Pl. 5, figs. 10-11.
Carboniferous. Norway, Barents Island

Stielglieder von Seelilien Breuer *et al.*, 1992, p. 64, Pl. 11, fig. 4.
Devonian, Emsian, Flaserschiefer. Germany

Stolen holdfasts Ausich and Copper, 2010, p. 76, Pl. 15, fig. 4.
Silurian, Llandoverian, Chicotte Formation. Canada, Quebec, Anticosti Isalnd

Stoloniferous crinoid holdfasts Brett, 1985b, p. 822, Fig. 3, no. 1. Webster, 1988, p. 214.
Silurian, Gasport Limestone. United States, New York

Stoloniferous holdfasts Clement, Gibson, and Broadhead, 1987, p. 189, Fig. 1, nos. B-D. Webster, 1993, p. 194.
Early Devonian, Ross Formation. United States, Tennessee

STOMIOCRINUS Wanner, 1937.
Skoropisceva, 1969, p. 30. Stukalina, 1973, p. 28. Webster, 1977, p. 222.
Recognized number of named columnal species: 5 Permian species: 2 Artinskian, 2 P1-P2, 1 series uncertain
Early Permian. Mongolia, Russia
Permian, series uncertain. West Timor

Stomiocrinus? arcticus (Yakovlev *in* Yeltyschewa, 1970) = *Neocamptocrinus arcticus*

Stomiocrinus diligens Vanin, 1980, p. 120, Pl. 24, figs. 4-7. Webster, 1986, p. 388.
Early Permian, Artinskian. Russia, Central Ural Mountains

Stomiocrinus groschini Skoropisceva, 1969 = *Neocamptocrinus groschini*

Stomiocrinus kolymaensis Yeltyschewa *in* Skoropisceva, 1969 = *Stomiocrinus kolymensis*

Stomiocrinus kolymensis Yeltyschewa *in* Skoropisceva, 1969, p. 31, Pl. 2, figs. 1-3. Stukalina, 1973, p. 29, Pl. 2, fig. 5. Webster, 1977, p. 222. Stukalina, 1986, p. 139, Pl. 26, fig. 8. Stukalina, 1988c, p. 64, Pl. 13, fig. 19. Webster, 1993, p. 194.
Stomiocrinus kolymaensis Yeltyschewa *in* Skoropisceva, 1969. Yeltyschewa, 1970, p. 185, figs. 9-12 (sic).
Permian (P1-P2). Russia, Verkhoyane; Mongolia

Stomiocrinus permiensis (Yakovlev, 1927). Skoropisceva, 1969, p. 32, Pl. 1, figs. 2-3. Webster, 1977, p. 222.
Camptocrinus permiensis Yakovlev, 1927, p. 188, Pl. 6, fig. 19.
Permian (P1-P2). Russia, Verkhoyane

Stomiocrinus rarus Skoropisceva, 1969 = *Neocamptocrinus rarus*

Stomiocrinus strictus Vanin, 1980, p. 120, Pl. 24, figs. 8-9. Webster, 1986, p. 388.
Permian, Artinskian. Russia, Central Ural Mountains

**Stomiocrinus subglobosus* Wanner, 1937. Skoropisceva, 1969, p. 30. Webster, 1977, p. 222.
Permian, series uncertain. West Timor

Stomiocrinus verchoyanicus Skoropisceva, 1969 = *Neocamptocrinus verchoysanicus*

STREPTOCRINUS Wachsmuth and Springer, 1886.
Recognized number of named columnal species: 1 Silurian, Wenlockian species
Silurian, Wenlockian. Sweden

Streptocrinus crotalurus Bather, 1893. Stukalina, 1967, p. 203. Webster, 1973, p. 320.
Silurian. Wenlockian. Sweden, Isle of Gotland

STUKALINAECRINUS Le Menn, 1985. **Crenatames minimus* Le Menn, 1981.
Le Menn, 1985, p. 158. Stukalina, 1986, p. 73. Webster, 1988, p. 214. Webster, 1993, p. 194.
Recognized number of named columnal species: 3 Devonian species, 1 Emsian, 1 Early Devonian uncertain, 1 Givetian
Devonian, Emsian. Poland
Devonian, Emsian, Givetian. France
Early Devonian. Kazakhstan

**Stukalinaecrinus minimus* (Le Menn, 1981). Le Menn, 1985, p. 158, Pl. 35, figs. 1-4. Webster, 1988, p. 214. Gluchowski, 1993b, p. 160, Pl. 4, figs. 2-3.
Crenatames minimus Le Menn, 1981, p. 267, Pl. 32, figs. 11-14. Le Menn, 1985, p. 158. Webster, 1988, p. 214.

Devonian, late Emsian, Marettes Formation, Reun ar C'Hrank Formation. France, Armorican Massif
Devonian, late Emsian, Zagorze Formation, Bukowa Gora Shales Formation. Poland

Stukalinaecrinus spinosus Le Menn, 1985, p. 159, Pl. 34, figs. 13-20. Webster, 1988, p. 214.
Devonian, Givetian, Kerbelec Formation. France, Armorican Massif

Stukalinaecrinus tjanschanicus (Schewtschenko, 1966). Stukalina, 1991, p. 196, Fig. 18, no. e.
Early Devonian, Sardzhal Horizon. Kazakhstan

STUKALINOCRINUS Arendt, 2002. **Stukalinocrinus gigas* Arendt, 2002 (OD) Arendt, 2002, p. 122.
Recognized number of named columnal species: 2 Mississippian, Viséan species
Mississippian, Viséan. Russia

**Stukalinocrinus gigas* Arendt, 2002, p. 123, Pls. 8, figs. 1a-1f; 9, figs. 1a-1c; Fig. 2, nos. a-d.
Mississippian, Viséan, Mikhailov Horizon. Russia, Moscow Basin

Stukalinocrinus magnus Arendt, 2002, p. 125, Pl. 9, figs. 2a-2b; Fig. 2, nos. e-f.
Mississippian, Viséan, Aleksin Horizon. Russia, Moscow Basin

Subaxial section d'une tige déformée d'un Crinoïde Termier, G. and Termier, H., 1950, p. 238, Pl. 227, fig. 27. Webster, 1973, p. 332.
Mississippian, late Viséan. Morocco

Surface articulaire indéterminée Termier, G. and Termier, H., 1950, p. 230, Pl. 223, fig. 11. Webster, 1973, p. 332.
Mississippian, late Viséan. Morocco

SVEDASOCRINUS Hynda and Saladzhius, 1988. **S. ovalis* Hynda and Saladzhius, 1988.
Hynda and Saladzhius, 1988, p. 50. Webster, 1993, p. 195.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Lithuania

**Svedasocrinus ovalis* Hynda and Saladzhius, 1988, p. 51, Unnum. Pl., fig. 7; Fig. zh. Webster, 1993, p. 195.
Ordovician, Katian, Svedasa Suite, Pirgu Horizon. Lithuania

Swollen stem Lane *in* Moore and Teichert, 1978, p. T347, Fig. 218, no. 2. Webster, 1986, p. 401.
Mississippian, Chesterian, Haney Formation. United States, Indiana

Symplexial articulation Donovan, 1985e, p. 21, Fig. 2, no. 7. Webster, 1988, p. 214.
Ordovician, Tremadocian. United Kingdom

SYNDETOCRINUS Kirk, 1933.
Webster, 1993, p. 195.
SYNDETOCRINUS (sensu lato) Stukalina *in* Levitskiy, 1968, p. 71. Jeffords *in* Moore and Teichert, 1978, p. T935. Stukalina, 1986, p. 74. Webster, 1993, p. 195.
Recognized number of named columnal species: 3 species. 2 late Silurian uncertain,
1 Early Devonian uncertain
Late Silurian. Russia
Early Devonian. Kazakhstan

SYNDETOCRINUS (sensu lato) Stukalina *in* Levitskiy, 1968 = *SYNDETOCRINUS*

Syndetocrinus bohemicus Bouska, 1946 = Crinoidarum ordo., fam., gen. et spp. ind.

Syndetocrinus? minimus Stukalina, 1975, p. 138, Pl. 33, figs. 1-2. Stukalina, 1986, p. 74, Pl. 32, figs. 5-6. Webster, 1986, p. 389. Stukalina, 1988c, p. 61, Pl. 9, figs. 13-15. Prokop and Petr, 1989b, p. 47. Webster, 1993, p. 195.
Late Silurian, Tokrau Horizon. Russia, Northern Pribalkhash

Syndetocrinus? natus Stukalina, 1965b, p. 135, Pl. 1, figs. 1-6; Figs. 1-2. Stukalina, 1971, p. 196, Pl. 2, figs. 9-11. Webster, 1973, p. 321. Webster, 1977, p. 222. Stukalina,1986, p. 74, Pl. 16, figs. 15-16. Prokop and Petr, 1989b, p. 47. Stukalina, 1991, p. 155, Fig. 11, no. v-g. Webster, 1993, p. 195.
Early Devonian, Karaespin Horizon; Kokbaital Horizon. Kazakhstan, Tarbagat

Syndetocrinus? uralicus Yakovlev, 1949. Stukalina, 1986, p. 74, Pl. 16, figs. 17-21 (typographical error as *S. uralicis* on plate explanation). Prokop and Petr, 1989b, p. 47. Webster, 1993, p. 195.
Late Silurian. Russia, Ural Mountains

Syndetocrinus spp.
Yakovlev, 1949c, p. 18, Pl. 2, fig. 6. Prokop and Petr, 1989b, p. 47. Webster, 1993, p. 195.
Late Silurian. Uzbekistan, Tien Shan
Yeltyschewa and Stukalina, 1977, p. 207, Pl. 4, fig. 9. Webster, 1986, p. 389.
Late Silurian. Russia, Vaigach

TAJMIROCRINUS Stukalina, 1982. **Pentagonocyclicus tajmirensis* Yeltyschewa and Stukalina, 1963.
Stukalina, 1982b, p. 156. Stukalina, 1986, p. 60. Webster, 1988, p. 214. Webster, 1993, p. 195.
Recognized number of named columnal species: 1 Silurian, Llandoverian species
Silurian, Llandoverian. Russia, Taymyr, Siberian Platform

*_Tajmirocrinus tajmirensis_ (Yeltyschewa and Stukalina, 1963). Tesakov _et al._, 1980, p. 146, Pl. 15, figs. 5-8. Stukalina, 1982b, p. 156, Fig. 28, nos. u, f. Webster, 1986, p. 389. Webster, 1988, p. 214. Stukalina, 2000, p. 42, Pls. 14, figs. 3-4; 15, figs. 1-6; Fig. 8, no. 4.

Pentagonocyclicus tajmirensis Yeltyschewa and Stukalina, 1963, p. 52, Pl. 1, fig. 6; Fig. 19. Webster, 1973, p. 310. Stukalina, 1982b, p. 156. Webster, 1988, p. 214.

Silurian, Llandoverian, Moierokan Suite. Russia, Taymyr, Siberian Platform

TANTALOCRINUS Stukalina, 1975. *_T. pachydactylus_ Yeltyschewa and Stukalina _in_ Stukalina, 1975.

Stukalina _in_ Levitskiy _et al._,1968, p. 70 (_nomen nudum_). Stukalina, 1975, p. 150. Jeffords _in_ Moore and Teichert, 1978, p. T937. Stukalina, 1986, p. 88. Webster, 1986, p. 389. Webster, 1988, p. 214. Webster, 1993, p. 195.

Recognized number of named columnal species: 3 Devonian species: 1Early Devonian undcertain, 1 Eifelian – givetian, 1 Givetian

Early Devonian. Kazakhstan

Devonian, Eifelian – Givetian. Poland

Devonisn, Givetian. France

*_Tantalocrinus pachydactylus_ Yeltyschewa _in_ Stukalina, 1971, p. 196, Pl. 2, figs. 1-2. Stukalina, 12975, p. 151, Pl. 36, figs. 13-14. Webster, 1977, p. 222. Webster, 1986, p. 389. Stukalina, 1991, p. 202, Pl. 49, figs. 4-6.

Early Devonian, Kokbaital Horizon; lower part of Pribalkhash Horizon. Kazakhstan, Pribalkhash

Tantalocrinus scutellus Le Menn, 1985, p. 171, Pls. 38, figs. 18-21; 39, figs. 1-5. Webster, 1988, p. 215. Gluchowski, 1993a, p. 64, Fig. 13, no. F. Gluchowski, 2005, p. 3321, Figs. 2, nos. D, G; 3, no. C, E; 4, E-F; 5, nos A, C-d, F, I, K

Devonian, Givetian, Kerbelec Formation. France, Armorican Massif

Devonian, Eifelian-Givetian boundary, Givetian, Skaly Beds, Laskowa Gora Beds. Poland

Tantalocrinus aff. _scutellus_ Le Menn, 1985, p. 173, Pl. 39, figs. 6-10, Fig. 70. Le Menn, 1988b, p. 473. Webster, 1988, p. 215. Webster, 1993, p. 195.

Devonian, Givetian - Frasnian, Kergarvan Formation; Beaulieu Formation, Cambreseque and Couderousse Members. France, Armorican Massif

Tantalocrinus tantalus Stukalina, 1975, p. 151, Pl. 36, fig. 15. Webster, 1986, p. 389. Stukalina, 1991, p. 202.

Early Devonian, Kokbaital (Karaspin) Horizon. Kazakhstan

Tantalocrinus sp. Gluchowski, Casier, and Olempska, 2006, p. 701, Fig. 3, no. W.

Devonian, early middle Frasnian, middle part of Wietrznia Beds. Poland

Tantalocrinus? sp. Le Menn in Le Menn et al., 2002, p. 30, Pl. 2, figs. 23-24.

Devonian, Pragian, Monte das Russianas Formation. Portugal

TARANSHICRINUS Sisova, 1988. **T. tatus* Sisova, 1988.
Sisova, 1988, p. 151. Webster, 1993, p. 195.
Recognized number of named columnal species: 3 Devonian, Famennian speies
Devonian, Famennian. Kazakhstan, Poland, United Kingddom

**Taranshicrinus tatus* Sisova, 1988, p. 152, Pl. 1, figs. 8a-8b. Webster, 1993, p. 196.
Devonian, Famennian, Sultsiferovii Horizon, Ustkaragandin Layer. Kazakhstan

Taranshicrinus volgaris Sisova, 1988, p. 152, Pl. 1, figs. 9a-9b. Webster, 1993, p. 196. Gluchowski, 2002, p. 323, Fig. 3, nos. T-U (sic misspelled as *Taranshicrinus vulgaris*).
Devonian, Famennian, Sultsiferovii Horizon, Ustkaragandin Layer.Kazakhstan

Taranshicrinus vulgaris Sisova, 1988. Gluchowski, 2002, p. 323, Fig. 3, nos. T-U.
Devonian, Famennian, *Pa. crepida* to *S. praesulcata* Biozones. Poland

Taranshicrinus sp. Gluchowski and Racki, 2005, p. 165, Fig. 4, no. F.
Devonian, Famennian, Pilton Beds. United Kingdom, North Devon

TARNAVICRINUS Stukalina, 1986 = ***TURUCHANICRINUS***

TASTJICRINUS Stukalina, 1975. **Kuzbassocrinus paucicostatus* Yeltyschewa, 1957.
Stukalina, 1975, p. 147. Stukalina, 1986, p. 82. Webster, 1986, p. 389. Webster, 1988, p. 215. Webster, 1993, p. 196.
Recognized number of named columnal species: 3 species. 1 Silurian, Wenlockian, Devonian, Givetian; 2 Devonian, 1Early – Middle Devonian, 1 Pragian
Silurian, Wenlockian, Devonian, Givetian. Kazakhstan
Early – Middle Devonian. Russia, Kazakhstan
Devonian, Pragian. France

**Tastjicrinus paucicostatus* (Yeltyschewa, 1957). Stukalina, 1975, p. 148, Pl. 35, figs. 14-17. Stukalina, 1978c, p. 56, Pl. 13, fig. 6. Stukalina, 1986, p. 82, Pl. 20, figs. 5-
7; Tab. 5. Webster, 1986, p. 389. Stukalina, 1988c, p. 62, Pl. 11, figs. 2-3; Fig. 31. Webster, 1993, p. 196. Kurilenko *in* Kurilenko, et al., 2002, p. 165, Pl. 55, fig. 15.
Kusbassocrinus paucicostatus Yeltyschewa, 1957, p. 226, Pl. 2, figs. 4-5; Fig. 6. Stukalina, 1971, p. 197, Pl. 2, fig. 14. Webster, 1973, p. 301. Stukalina, 1975, p. 148. Webster, 1977, p. 205. Webster, 1986, p. 389. Dubatolova, 1988, p. 67, Pl. 14, figs. 6-8; Fig. p. 68, no. b. Stukalina, 1991, p. 194, Pl. 47, figs. 1-5; Fig. 18, on. v. Webster, 1993, p. 168.
Melocrinites paucicostalus (Yeltyschewa, 1957). Webster, 1973, p. 301.
Early - Middle Devonian, Kokbaital Horizon, Pribalkhash Horizon; Ilin Suite (upper part of Beloubin Suite). Pribalkhash. Kazakhstan; Russia, Northern Urals, Southern Baltic Region
Devonian, Lochkovian. Russia, Far East Transbaikal

Tastjicrinus spatulatus (Le Menn, 1976). Le Menn, 1985, p. 107, Pl. 23, figs. 14-17. Webster, 1988, p. 215.
Kuzbassocrinus spatulatus Le Menn, 1976, p. 280, Pl. 53, figs. 1-5. Le Menn, 1985, p. 107. Webster, 1986, p. 363. Webster, 1988, p. 215.
Devonian, Pragian (early Siegenian), Sainte-Cenere Formation. France, Armorican Massif

Tastjicrinus tastjiensis Stukalina, 1975, p. 148, Pl. 35, figs. 18-21. Stukalina, 1978c, p. 56, Pl. 13, fig. 7. Gluchowski, 1981b, p. 39, Pl. 1, fig. 10. Stukalina, 1986, p. 82, Pl. 20, nos. 8-11; Tab. 5. Webster, 1986, p. 389. Stukalina, 1988c, p. 62, Pl. 11, figs. 4-7; Fig. 31. Webster, 1988, p. 215. Stukalina, 1991, p. 195, Pl. 47, fig. 6; Fig. 18, no. g. Webster, 1993, p. 196. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 293, Pl. 108, fig. 2.
Silurian, Wenlockian, Devonian, Givetian, Kokbaital Horizon; Pribalkhash Horizon. Kazakhstan
Silurian, Bielskian. Poland

Tastjicrinus cf. *tastjicrinsis* Stukalina 1975. Kurilenko *in* Kurilenko, et al., 2002, p. 166, Pl. 57, figs. 19-20.
Devonian, Pragian. Russia, Far East Transbaikal

Tastjicrinus sp. Le Menn, 1985, p. 108, Pl. 24, figs. 9-10. Webster, 1988, p. 215.
Devonian, late Emsian, Reun ar C'Hrank Formation. France, Armorican Massif

TATJANICRINUS Stukalina, 1980. **T. cruciformis* Stukalina, 1980.
Stukalina, 1980a, p. 91. Webster, 1986, p. 389. Stukalina, 1988c, p. 50. Webster, 1993, p. 196.
Recognized number of named columnal species: 4 species. 3 Ordovician, 1 Middle Ordovician uncertain, 1 Sandbian, 1 Katian; 1 Silurian, Llandoverian
Ordovician, Sandbian – Katian; Silurian, Llandoverian. Kazakhstan
Middle Ordovician. Russia, Ural Mountains

Tatjanicrinus corruptus (Stukalina, 1980). Stukalina, 1988c, p. 56, Pl. 1, fig. 18. Webster, 1993, p. 196.
Xenocrinus? corruptus Stukalina, 1980a, p. 93, Pl. 21, fig. 11; Fig. 15, no. 9. Stukalina, 1986, p. 87, Pl. 4, fig. 17; Fig. 24, no. 9. Webster, 1986, p. 393. Webster, 1993, p. 196.
Silurian, Llandoverian, Alpeis Horizon, layer with *Holorhynchus cinghizicus*. Kazakhstan, Tarbagatai

**Tatjanicrinus cruciformis* Stukalina, 1980a, p. 92, Pl. 21, fig. 7; Fig. 15, no. 5. Stukalina, 1986, p. 50, Pl. 4, fig. 16; Fig. 24, no. 5. Webster, 1986, p. 389. Stukalina, 1988c,
p. 55, Pl. 1, fig. 17. Webster, 1993, p. 196.
Ordovician, Sandbian, Anderken Horizon. Southern Kazakhstan

Tatjanicrinus kozhimensis Stukalina, 1980a, p. 92, Pl. 21, fig. 8; Fig. 15, no. 6.

Stukalina, 1986, p. 50, Pl. 4, fig. 15; Fig. 24, no. 6. Webster, 1986, p. 390. Stukalina, 1988c, p. 55, Pl. 1, fig. 16. Webster, 1993, p. 196.
Middle Ordovician, upper part of Shchugor Suite. Russia, Ural Mountains

Tatjanicrinus lobus (Stukalina, 1980). Stukalina, 1986, p. 50, Fig. 24, no. 8. Webster, 1993, p. 196.
Xenocrinus? lobus Stukalina, 1980a, p. 93, Pl. 21, fig. 10; Fig. 15, no. 8. Webster, 1986, p. 394. Webster, 1993, p. 196.
Ordovician, Katian, Tolen? Horizon. Eastern Kazakhstan

TAXOCRINUS Phillips *in* Morris, 1843.
Haude, 1981, p. 188, Fig. 2.
Recognized number of named columnal species: 1 Mississippian, Viséan species
Mississippian, Viséan; United States

Taxocrinus colletti White, 1880. Turek, 1988, p. 382, Fig. 2.
Mississippian, Viséan (Osagean), Edwardsville Formation. United States, Indiana

Taxocrinus cf. *colletti* White, 1880. Termier, G. and Termier, H., 1950, p. 92, Pl. 224, fig. 32 (*non* figs. 30-31 as given p. 92). Webster, 1973, p. 321.
Early Devonian. Morocco

Taxocrinus sp. Sangil, 1955, p. 253, Fig. 3, no. B. Webster, 1973, p. 321.
Diagramatic

Taxocrinus? sp. Reed, 1908, p. 42, Pl. 6, figs. 5-6a.
Devonian. India, Northern Shan States

TCHUCRINUS Sisova, 1991. **Tchucrinus densus* Sisova, 1991.
Sisova, 1991, p. 159.
Recognized number of named columnal species: 3 Mississippian, Tournaisian species
Mississippian, late Tournaisian. Cental and southern Kazakhstan

Tchucrinus biconvexus Sisova, 1991, p. 160, Pl. 2, fig. 1.
Mississippian, late Tournaisian. Southern Kazakhstan

**Tchucrinus densus* Sisova, 1991, p. 160, Pl. 2, figs. 2-3.
Mississippian, late Tournaisian. Cental and southern Kazakhstan

Tchucrinus loricatus Sisova, 1991, p. 161, Pl. 2, fig. 4.
Mississippian, late Tournaisian. Southern Kazakhstan

TEBAGACRINUS Termier and Termier, 1958 = *COENOCRINUS*

Tebagacrinus sp. Termier, H. and Termier, G., 1958, p. 53, Pl. 1, figs. d-g. Webster, 1973, p. 321.
Permian. Tunisia

TELEIOCRINUS Wachsmuth and Springer, 1881.
Recognized number of named columnal species: 1 Mississippian, Tournaisian species
Mississippian, Tournaisian. Kazakhstan

Teleiocrinus? petrenkoi Sisova, 1977, p. 160, Pl. 32, figs. 1-3. Webster, 1986, p. 390.
Mississippian, Tournaisian, Rusakov Horizon. Central Kazakhstan

Ten-fold arrangement of ligament pits Donovan, 1985e, p. 21, Fig. 2, no. 14. Webster, 1988, p. 215.
Ordovician, Caradocian. United Kingdom

TENUICYSTIS Stukalina, 1985. **T. tenuis* Stukalina, 1985.
Stukalina, 1985a, p. 179. (may be a cystoid columnal)
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Kazakhstan

**Tenuicystis tenuis* Stukalina, 1985a, p. 180, Pl. 1, figs. 6-7.
Ordovician, Sandbian. Kazakhstan

Terminal dendritic radice holdfasts Donovan, Harper and Hakansson, 2007, p. 314, Figs. 1-4. Donovan and Harper, 2010, p., 591, Fig. 1.
Silurian, Wenlockian, Klinteberg Formation. Sweden, Isle of Gotland

TERRACRINUS Yeltyschewa and Stukalina, 1977. **T. terranovae* Yeltyschewa *in* Yeltyschewa and Stukalina, 1977.
Yeltyschewa and Stukalina, 1977, p. 216. Webster, 1986, p. 390.
Recognized number of named columnal species: 1 Devonian, Givetian species
Devonian, Givetian. Russia

**Terracrinus terranovae* Yeltyschewa *in* Yeltyschewa and Stukalina, 1977, p. 217, Pl. 3, fig. 6. Webster, 1986, p. 390.
Devonian, Givetian. Russia, Nova Zemlya

TESSAROCRINUS Dubatolova, 1971. **Tetragonocyclicus fimbriatus* Dubatolova, 1964.
Dubatolova, 1971, p. 25. Webster, 1977, p. 222. Jeffords *in* Moore and Teichert, 1978, p. T935. Stukalina, 1986, p. 51. Dubatolova, 1987, p. 127. Webster, 1993,
p. 196.
Recognized number of named columnal species: 1 Early Devonian species
Early Devonian. Russia

**Tessarocrinus fimbriatus* (Dubatolova, 1964). Dubatolova, 1971, p. 25. Webster, 1977, p. 222.
Tetragonocyclicus fimbriatus Dubatolova, 1964, p. 66, Pl. 8, figs. 13-16. Dubatolova, 1971, p. 25. Webster, 1973, p. 321. Webster, 1977, p. 222.

Early Devonian. Russia, Kuznetz Basin

Tessarocrinus gratus (Dubatolova, 1967) = *Cupressocrinites gratus*

TETRABRACHIOCRINUS Yakovlev, 1934
MUSIVOCRINUS Termier H., and Termier, G., 1958, p. 36.
Permian, Wordian. Tunsia, Sicily

Tetragonocrinidae Stukalina, 1986, p. 91, Fig. 25, no. 1. Stukalina, 1988c, p. 36, Fig. 21,
no. 1. Webster, 1993, p. 197.
Early - Middle Ordovician

TETRAGONOCRINUS Yeltyschewa, 1964. **Goniaster pygmaeus* Eichwald, 1860.
Yeltyschewa, 1964a, p. 65. Webster, 1973, p. 321. Jeffords *in* Moore and Teichert, 1978, p. T935. Hynda, 1986, p. 76. Stukalina, 1986, p. 49. Webster, 1993, p. 197.
Recognized number of named columnal species: 2 Ordovician species, 1 Dapingian – Darriwilian, 1 Sandbian
Ordovician, Dapingian - Darriwilian. Russia
Ordovician, Sandbian. Kazakhstan

Tetragonocrinus (Eichwald, 1860) = *Entrochus pygmaeus*

**Tetragonocrinus pygmaeus* (Eichwald, 1860). Yeltyschewa, 1964a, p. 65, Pls. 1, figs. 8-14; 4, figs. 18-19. Webster, 1973, p. 321. Hynda, 1979, p. 69, Pl. 1, figs. 1a-1b; Fig. 1. Hynda, 1986, p. 77, Pl. 12, fig. 15; Fig. 25. Stukalina, 1986, p. 49, Pl. 4, figs. 1-4; Fig. 9, no. 4. Webster, 1986, p. 390. Stukalina, 1988c, p. 55, Pl. 1, figs. 1-5. (see *Entrochus pygmaeus*). Webster, 1993, p. 197.
Ordovician, Dapingian – Darriwilian, Volkhov - Kynla Horizons. Russia, Eastern European Platform, Volhyn

Tetragonocrinus quadratus Stukalina and Tujutjan, 1967, p. 75, Figs. 7-9, 12. Webster, 1973, p. 321.
Ordovician, Sandbian, Anderken Horizon. Kazakhstan

TETRAGONOCYCLICUS Yeltyschewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Figs. 1, no. 2E; 2, nos. e-g. Yeltyschewa, 1959, p. 233, Fig. 1, no. 2E. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 2E. Dubatolova, 1964, p. 9, Fig. 1, no. 2E. Webster, 1973, p. 321. Jeffords *in* Moore and Teichert, 1978, p. T935, T937.
Early - Middle Devonian

TETRAGONOCYCLICUS Donovan, 1989 (*non* Yeltyschewa, 1956). **T. bifurcatus* Donovan, 1989.
Donovan, 1989d, p. 93. Webster, 1993, p. 197.
Recognized number of named columnal species: 3 Ordovician species, 1 Floian, 1, Katian, 1 Hirnantian

Ordovician, Floian. Ireland
Ordovician, Katian - Hirnantian. United Kingdom

**Tetragonocyclicus bifurcatus* Donovan, 1989d, p. 93, Pl. 10, figs. 4-5; Fig. 34, no. D. Webster, 1993, p. 197.
Ordovician, Katian (Ashgillian), Sholeshook Limestone. United Kingdom

Tetragonocyclicus deflexus Dubatolova, 1964 = *Tetralobocrinus deflexus*

Tetragonocyclicus filicatus Dubatolova, 1964 = *Tetralobocrinus filicatus*

Tetragonocyclicus fimbriatus Dubatolova, 1964 = **Tessarocrinus fimbriatus*

Tetragonocyclicus fuscus Dubatolova, 1964 = *Tetralobocrinus fuscus*

Tetragonocyclicus (col) *glynensis* Donovan, 1989d, p. 94, Pl. 11, fig. 7; Fig. 34, nos. G, J. Webster, 1993, p. 197.
Tetragonocyclicus (col) *glyngritensis* Donovan, 1989. Donovan, 1994, p. 77, Fig. 8, no. A (sic) . Donovan, 1995a, p. 14, Fig. 2, no. a.
Ordovician, Hirnantian (Ashgillian), Glyn Grit. United Kingdom, Wales

Tetragonocyclicus (col) *glyngritensis* Donovan, 1989 = *Tetragonocyclicus* (col) *glynensis*

Tetragonocyclicus ignotus Dubatolova, 1964 = *Tetraptocrinus ignotus*

Tetragonocyclicus indefinitus Dubatolvoa, 1967 = *Tetraxonocrinus indefinitus*

Tetragonocyclicus indefinitus Dubatolova, 1967 = *Cupressocrinites? indefinitus*

Tetragonocyclicus infinitus Dubatolova, 1964 = *Tetraptocrinus infinitus*

Tetragonocyclicus multiforabilis Dubatolova, 1964 = *Polyporocrinus multiforabilis*

Tetragonocyclicus permirus Dubatolova, 1964 = **Tetraptocrinus permirus*

Tetragonocyclicus perplexus Dubatolova, 1964 = **Tetralobocrinus perplexus*

Tetragonocyclicus tourmakeadyensis Donovan, 1989d, p. 94, Pl. 8, figs. 3, 8. Webster, 1993, p. 197.
Ordovician, Floian (Arenigian), Tourmakeady Limestone. Ireland

TETRAGONOELLIPTICUS Yeltsychewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 2F. Yeltyschewa, 1959, p. 233, Fig. 1, no. 2F Yeltyschewa, 1964b, p. 75, Fig. 114, no. 2F. Dubatolova, 1964, p. 9, Fig. 1, no. 2F. Webster, 1973, p. 321. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

TETRAGONOHEXAGONALIS Yeltsychewa. 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 2D. Yeltyschewa, 1959, p. 233, Fig. 1, no. 2D. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 2D. Dubatolova, 1964, p. 9, Fig. 1, no. 2D. Webster, 1973, p. 322. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

TETRAGONOPENTAGONALIS Yeltsychewa. 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 2C. Yeltyschewa, 1959, p. 233, Fig. 1, no. 2C. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 2C. Dubatolova, 1964, p. 9, Fig. 1, no. 2C. Webster, 1973, p. 322. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

TETRAGONOTETRAGONALIS Yeltsychewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 2B. Yeltyschewa, 1959, p. 233, Fig. 1, no. 2B. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 2B. Dubatolova, 1964, p. 9, Fig. 1, no. 2B. Webster, 1973, p. 322. Jeffords *in* Moore and Teichert, 1978, p. T935. Donovan and Harper, 1993, p. 674. Donovan, 1995b, p. 120.
Recognized number of named columnal species: 2 Ordovician species, 1 Katian, 1 Hirnantian
Ordovician, Katian, Hirnantian. United Kingdom

Tetragonotetragonalis altaicus Yeltyschewa *in* Avrov and Stukalina, 1964 = **Bereljicrinus altaicus*

Tetragonotetragonalis (col) *girvanensis* Donovan and Harper, 1993, p. 674, Figs. 2, no. b; 5. Donovan, 1994, p. 78, Fig. 9, no. E. Donovan, 1995a, p. 14, Fig. 1, no. f.
Donovan, 1995b, p. 120, Pls. 14, fig. 12; 15, fig. 8.
Xenocrinus sp. Donovan, 1991a, p.10. Donovan and Harper, 1993, p. 674.
Ordovician, Hirnantian, High Mains Formation. United Kingdom, Scotland

Tetragonotetragonalis gratus Dubatolova, 1967 = *Tessarocrinus gratus* = *Cupressocrinites gratus*

Tetragonotetragonalis nudus Dubatolova, 1964 = **Tetrastaurus nudus*

Tetragonotetragonalis nutabundus Dubatolova, 1964 = *Tetrastaurus nutabundus* = **Tetraocetocrinus nutabundus*

Tetragonotetragonalis quadrihamatus Yeltyschewa *in* Yeltyschewa and Stukalina, 1963 = *Dwortsowaecrinus quadrihamatus*

Tetragonotetragonalis robustus Donovan, 1995b, p. 120, Fig. 17, nos. C-D.
Xenoncrinus? sp. Donovan, 1986a, p. 46, Fig. 17, nos. C-D. Donovan, 1995b, p. 120.

Xenocrinus? sp. Donovan and Harper, 1993, p. 675. Donovan, 1995b, p. 120.
Xenocrinus? sp. Donovan and Veltkamp, 1993, p. 609. Donovan, 1995b, p. 120.
Ordovician, Katian, Sholeshook Limestone Formation. United Kingdom

TETRAGONOTRIGONALIS Yeltsychewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 2A. Yeltyschewa, 1959, p. 233, Fig. 1, no. 2A. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 2A. Dubatolova, 1964, p. 9, Fig. 1, no. 2A. Webster, 973, p. 322. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

TETRALOBOCRINUS Dubatolova, 1971. **Tetragonocyclicus perplexus* Dubatolova, 1964.
Dubatolova, 1971, p. 24. Webster, 1977, p. 223. Jeffords *in* Moore and Teichert, 1978, p. T935. Dubatolova, 1987, p. 126. Webster, 1993, p. 197.
Recognized number of named columnal species: 4 Early Devonian species, Early Devonian. Russia

Tetralobocrinus deflexus (Dubatolova, 1964). Dubatolova, 1971, p. 24. Webster, 1977, p. 223.
Tetragonocyclicus deflexus Dubatolova, 1964, p. 67, Pls. 8, fig. 17; 9, figs. 1-2. Dubatolova, 1971, p. 24. Webster, 1973, p. 321. Webster, 1977, p. 223.
Early Devonian. Russia, Kuznetz Basin

Tetralobocrinus filicatus (Dubatolova, 1964). Dubatolova, 1971, p. 24. Webster, 1977, p. 223.
Tetragonocyclicus filicatus Dubatolova, 1964, p. 65, Pl. 8, figs. 7-9. Dubatolova, 1971, p. 24. Webster, 1073, p. 321. Webster, 1977, p. 223.
Early Devonian. Russia, Kuznetz Basin

Tetralobocrinus fuscus (Dubatolova, 1964). Dubatolova, 1971, p. 24. Dubatolova, 1975b, p. 48, Pl. 9, fig. 1; Fig. 1. Milicina, 1977a, p. 149, Pl. 59, fig. 4; Fig. 35. Webster, 1977, p. 223. Webster, 1986, p. 390.
Tetragonocyclicus fuscus Dubatolova, 1964, p. 67, Pl. 9, figs. 3-4. Dubatolova, 1971, p. 24. Webster, 1973, p. 321. Webster, 1977, p. 223.
Early Devonian, Malobachat Horizon, Vizhaich Horizon, Toshem Horizon. Russia, Ural Mountains, Northeastern Salair, Kuznetz Basin

**Tetralobocrinus perplexus* (Dubatolova, 1964). Dubatolova, 1971, p. 25, Pl. 2, figs. 3-4; Fig. 4. Milicina, 1977a, p. 150, Pl. 59, fig. 5; Fig. 36. Webster, 1977, p. 223. Webster, 1986, p. 390.
Tetragonocyclicus perplexus Dubatolova, 1964, p. 68, Pl. 9, figs. 5-6. Milicina, 1970, p. 99, Pl. 28, fig. 4; Fig. 8. Dubatolova, 1971, p. 25. Webster, 1973, p. 321. Webster, 1977, p. 224.
Early Devonian. Russia, Kuznetz Basin, Altai Mountains, Salair, Central Urals

TETRAOCETOCRINUS Dubatolova, 1987. **Tetragonotetragonalis nutabundus* Dubatolova, 1964.

Dubatolova, 1987, p. 127. Webster, 1993, p. 197.
Recognized number of named columnal species: 1 Middle Devonian species
Middle Devonian. Russia

**Tetraocetocrinus nutabundus* (Dubatolova, 1964). Dubatolova, 1987, p. 127. Webster, 1993, p. 197.
Tetragonotetragonalis nutabundus Dubatolova, 1964, p. 63, Pl. 8, figs. 10-12. Dubatolova, 1971, p. 26. Webster, 1073, p. 322. Webster, 1977, p. 224. Dubatolova, 1987, p. 127. Webster, 1993, p. 197.
Tetrastaurus nutabundus (Dubatolova, 1964). Dubatolova, 1971, p. 26. Webster, 1977, p. 224.
Middle Devonian. Russia, Kuznetz Basin, Salair

TETRAPTOCRINUS Dubatolova, 1971. **Tetragonocyclicus permirus* Dubatolova, 1964.
Dubatolova, 1971, p. 23. Webster, 1977, p. 224. Jeffords *in* Moore and Teichert, 1978, p. T935. Stukalina, 1986, p. 51. Dubatolova, 1987, p. 125. Webster, 1988,
p. 215. Webster, 1993, p. 197.
Recognized number of named columnal species: 6 Devonian species, 1 Lochkovian – Emsian, 1 Pragian – Emsian, 3 Early Devonian, 1 Eifelian
Devonian, Lochkovian-Emsian. Uzbekistan
Early - Middle Devonian. Russia

Tetraptocrinus deflexus (Dubatolova, 1964). Rakhmonov and Stukalina, 2000, p. 3, Pl. 1, figs. 5-6. Rakhmonov, 2008, p. 248, Pl. 109, fig. 1.
Devonian, Lochkovian-Emsian, Madmon and Khodzhakurgan Formation. Uzbekistan, Zeravshan Range

Tetraptocrinus erectus Dubatolova, 1982, p. 73, Pl. 1, figs. 1-2; Fig. 1. Dubatolova, 1984, p. 111, Pl. 13, figs. 1-2; Fig. 1. Webster, 1988, p. 215.
Devonian, Eifelian, Vechernin Suite. Russia, Northeastern Salair, Omulev Mountains

Tetraptocrinus fuscs (Dubatolova, 1964). Rakhmonov and Stukalina, 2000, p. 3, Pl. 1, fig. 7.
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

Tetraptocrinus ignotus (Dubatolova, 1964). Dubatolova, 1971, p. 24. Webster, 1977, p. 224.
Tetragonocyclicus ignotus Dubatolova, 1964, p. 69, Pl. 9, fig. 7. Dubatolova, 1971, p.
24. Webster, 1973, p. 321. Webster, 1977, p. 224.
Early Devonian. Russia, Kuznetz Basin

Tetraptocrinus infinitus (Dubatolova, 1964). Dubatolova, 1971, p. 23. Webster, 1977, p. 224.
Tetragonocyclicus infinitus Dubatolova, 1964, p. 64, Pl. 8, fig. 6. Dubatolova, 1971, p. 23. Webster, 1973, p. 321. Webster, 1977, p. 224.

Early Devonian. Russia, Kuznetz Basin

**Tetraptocrinus permirus* (Dubatolova, 1964). Dubatolova, 1971, p. 23. Webster, 1977, p. 224.
Tetragonocyclicus permirus Dubatolova, 1964, p. 64, Pl. 8, fig. 5. Dubatolova, 1971, p. 23. Webster, 1973, p. 321. Webster, 1977, p. 224.
Early Devonian. Russia, Kuznetz Basin, Salair, Altai Mountains

TETRASTAURUS Dubatolova, 1971. **Tetragonotetragonalis nudus* Dubatolova, 1964.
Dubatolova, 1971, p. 26. Webster, 1977, p. 224. Jeffords *in* Moore and Teichert, 1978, p. T935.
Recognized number of named columnal species: 2 Devonian species, 1 Emsian, 1 Middle Devonian
Middle Devonian. Russia
Devonian, ‘Emsian. Uzbekistan

**Tetrastaurus nudus* (Dubatolova, 1964). Dubatolova, 1971, p. 26. Webster, 1977, p. 224.
Tetragonotetragonalis nudus Dubatolova, 1964, p. 62, Pl. 8, figs. 3-4; Fig. 7. Dubatolova, 1971, p. 26. Webster, 1973, p. 322. Webster, 1977, p. 224.
Middle Devonian, Russia, Kuznetz Basin, Salair

Tetrastaurus nutabundus (Dubatolova, 1964) = *Tetraocetocrinus nutabundus*

Tetrastaurus protenus Rakhmonov, 2008, p. 249, Pl. 109, figs. 3-5.
Devonian, Emsian, Obisafit Beds. Uzbekistan, Zeravshan Range

TETRAXONOCRINUS Dubatolova, 1971. **Tetragonocyclicus indefinitus* Dubatolova, 1967.
Dubatolova, 1971, p. 24. Webster, 1977, p. 224. Jeffords *in* Moore and Teichert, 1978, p. T935. Dubatolova, 1987, p. 126. Webster, 1988, p. 215. Webster, 1993, p. 198.
Recognized number of named columnal species: 5 Devonian species, 1 Pragian, 1 Pragian/Emsian boundary , 2 Eifelian, 1 Middle Devonian
Devonian, Pragian/Emsian. Uzbekistan
Devonian, Eifelian. Russia

**Tetraxonocrinus indefinitus* (Dubatolova, 1967). Dubatolova, 1971, p. 24. Dubatolova, 1973b, p. 97, Pls. 24, figs. 4-5; 25, figs. 1-2; Fig. 2. Webster, 1977, p. 224.
Tetragonocyclicus indefinitus Dubatolova, 1967, p. 38, Pl. 6, figs. 16-18; Fig. 5. Dubatolova, 1971, p. 24. Webster, 1973, p. 321. Webster, 1977, p. 224.
Middle Devonian. Russia, Tas-Hayahtah Mountains, Salair, Altai Mountains

Tetraxonocrinus optatus Dubatolova, 1982, p. 74, Pl. 1, figs. 3-5; Fig. 2. Webster, 1988, p. 215.
Devonian, Eifelian. Russia, Northeastern Salair

Tetraxonocrinus probatus Dubatolova, 1982, p. 75, Pl. 1, figs. 6-10; Fig. 3. Webster, 1988, p. 215.
Devonian, Eifelian, Russia, Northeastern Salair

Tetraxonocrinus strictus Rakhmonov and Stukalina, 2000, p. 3, Pl. 1, figs. 8-9 (nomen nudum, no description or diagosis). Rakhmonov, 2008, p. 249, Pl. 109, fig. 2.
Devonian, Pragian, Zinzilban Beds. Uzbekistan, Zeravshan Range

Tetraxonocrinus sumacus Rakhmonov and Stukalina, 2000, p. 3, Pl. 1, fig. 10 (nomen nudum, no description or diagosis)
Devonian, Pragian/Emsian boundary beds. Uzbekistan, southern Tien Shan

TETTAROPOROCRINUS Dubatolova, 1982. **T. comptus* Dubatolova, 1982.
Dubatolova, 1982, p. 77. Webster, 1988, p. 215.
Recognized number of named columnal species: 4 Devonian, Eifelian species
Devonian, Eifelian. Russia; Uzbekistan

**Tettaroporocrinus comptus* Dubatolova, 1982, p. 77, Pl. 2, figs. 1-3; Fig. 4. Webster, 1988, p. 215.
Devonian, Eifelian. Russia, Northeastern Salair

Tettaroporocrinus denticulatus Dubatolova, 1982, p. 78, Pl. 1, figs. 11-13; Fig. 5. Webster, 1988, p. 216.
Devonian, Eifelian. Russia, Northeastern Salair

Tettaroporocrinus lunulatus Dubatolova, 1982, p. 79, Pl. 2, figs. 4-5. Fig. 6. Webster, 1988, p. 216.
Devonian, Eifelian. Russia, Northeastern Salair

Tettaroporocrinus obiensis Rakhmonov, 2008, p. 249, Pl. 109, fig. 6.
Devonian, Eifelian, Novikhushk Beds. Uzbekistan, Zeravshan Range

THYLACOCRINUS Oehlert, 1878.
Recognized number of named columnal species: 1 Devonian, Emsian species
Devonian, Emsian. France

Thylacocrinus vannioti Oehlert, 1878. Turek, 1988, p. 378, Fig. 1.
Devonian, Emsian. France

Thylacocrinus spp.
Le Menn, 1976, p. 279, Pl. 53, figs. 10-11. Webster, 1986, p. 390.
Early Devonian, Saint-Céneré Formation. France
Stukalina, 1991, p. 154, Pl. 40, figs. 7-8; Fig. 11, no. b.
Devonian, Pragian, Sardzhal Horizon. Kazakhstan
Le Menn, 1997b, p. 130.
Early Devonian. Algeria

Thylacocrinus? sp. no. 1 Fraunfelter, 1974, p. 16, Pl. 2, fig. 10. Webster, 1986, p. 390.

Devonian, Givetian, Lingle Limestone. United States, Illinois, Missouri

Tige de Crinoide enroulé Termier, G. and Termier, H., 1950, p. 222, Pl. 219, fig. 5. Webster, 1973, p. 332.
Devonian, Lochkovian (Gedinnian). Morocco

Tige de Crinoîde par une galle Delpey, 1941, p. 219, fig. 13.
Early Mississippian, Viséan. Morocco

Tige indéterminé spp.
Termier, G. and Termier, H., 1950, p. 230, Pl. 223, fig. 10. Webster, 1973, p. 332.
Mississippian, late Viséan. Morocco
Termier, G. and Termier, H., 1950, p. 230, Pl. 223, figs. 12-13. Webster, 1973, p. 332.
Pennsylvanian, Westphalian. Algeria
Termier, G. and Termier, H., 1950, p. 230, Pl. 223, figs. 14-15. Webster, 1973, p. 332.
Mississippian, late Viséan. Morocco

Tiges de Flexibilia indéterminé Termier, G. and Termier, H., 1950, p. 214, Pl. 215, Figs. 23-28. Webster, 1973, p. 332.
Devonian, Famennian. Algeria

Tiges d'encrines Waagen and Jahn, 1899 (part) = Crinoidearum ordo, fam., gen. et sp. ind.

Tiges d'encrines Waagen and Jahn, 1899 (part) = Scyphocrinitidae gen. et sp. ind.

TJEECRINUS Dubatolova, 1975. **T. crassijugatus* Dubatolova, 1975.
Dubatolova, 1975a, p. 13. Jeffords *in* Moore and Teichert, 1978, p. T936. Webster, 1986, p. 390. Webster, 1988, p. 216. Webster, 1993, p. 198. Ebert, 1994, p. 53.
Recognized number of named columnal species: 7 Devonian species, 1 Eifelian, 4 Givetian, 1Givetian – Famennian, 1 Frasnian – Famennian
Devonian, Eifelian. Germany
Devonian, Givetian. Russia
Devonian, Givetian – Famennian. Poland

Tjeecrinus? celinae Le Menn, 1985, p. 155, Pl. 33, figs. 15, 21-24, 26. Webster, 1988, p. 216.
Devonian, Givetian, Kergarvan Formation. France, Armorican Massif

Tjeecrinus condylodes Dubatolova, 1975a, p. 17, Pls. 2, fig. 11; 3, figs. 1-3; Fig. 9. Webster, 1986, p. 391.
Middle Devonian, Givetian, Beisk Horizon. Russia, Southern Minusin Basin

**Tjeecrinus crassijugatus* Dubatolova, 1975a, p. 14, Pl. 2, figs. 8-10; Fig. 6. Gluchowski, 1981b, p. 41, Pl. 3, fig. 4. Webster, 1986, p. 391. Le Menn, 1988b, p. 473, Pl. 53, figs. 17-20. Webster, 1988, p. 216. Webster, 1993, p. 198.

Gluchowski, 1993a, p. 62, Fig. 12, no. C.
Devonian, Givetian, Beisk Horizon; Skaly Beds, Blacourt Formation, Griset Member. Russia, Southern Minusin Basin; France
Devonian, Eifelian-Givetian boundary - Givetian, Skaly Beds; Swietomarz Beds, Laskowa Gora Beds, *Stringocephalus* Beds, Dziewki Limestone. Poland

Tjeecrinus hirsutus Dubatolova, 1975a, p. 16, Pl. 4, figs. 1-5; Fig. 8. Webster, 1986, p. 391.
Middle Devonian, Givetian, Beisk Horizon. Russia, Southern Minusin Basin

Tjeecrinus insectus (Yeltyschewa *in* Dubatolova, 1964). Gluchowski, 1993a, p. 62, Fig. 12, nos. D-E. Gluchowski, 2002, p. 323, Fig. 3, nos. V-W.
Devonian, late Frasnian- Famennian, *Pa. triangularis* to *Pa. marginifera* Biozones; Kostomloty Beds; *Manticoceras* Limestone; Marly Limestone; Detrital Beds; Grained Limestone. Poland

Tjeecrinus lemenni Ebert, 1994, p. 53, Pl. 3, figs. 13-14, 18; Figs. 50, 53, 61, no. c; 71-74.
Devonian, Eifelian, Hobräck Formation; Stöppel Formation; Olper Tonschiefer. Germany

Tjeecrinus simplex (Yeltyschewa, 1955). Dubatolova, 1975a, p. 15, Pl. 3, figs. 4-8; Fig. 7. Gluchowski, 1981b, p. 41, Pl. 3, fig. 5. Webster, 1986, p. 391. Webster, 1988, p. 216. Gluchowski, 1993a, p. 61, Fig. 12, nos. A-B. Gluchowski, Casier, and Olempska, 2006, p. 701, Fig. 3, no. R.
Pentagonocyclicus simplex Yeltyschewa, 1955b, p. 37, Pl. 15, fig. 5. Webster, 1973, p. 310. Dubatolova, 1975a, p. 15. Webster, 1986, p. 391.
Devonian, Givetian-Famennian, Beisk Horizon. Russia, Minusin Basin; Poland
Devonian, Givetian - Frasnian, Szydlowek Beds; lower and middle parts of Wietrznia Beds; *Phlogoiderhynchus* Level; Crinoid-coral Level; Jazwica Member; *Tenticospirifer* Level; Sitkowka Beds; Checiny Beds; Kadzielnia Member; Debnik Limestone. Poland

Tjeecrinus spp.
Le Menn, 1985, p. 157, Pl. 33, figs. 14, 17-19. Webster, 1988, p. 216.
Devonian, Eifelian, Quelern Formation. France, Armorican Massif
Racki, Gluchowski, and Malec, 1985, p. 166, Pl. 7, fig. 20.
Devonian, late Givetian. Poland

TJULKULICRINUS Stukalina, 1988. **T. tjulkulensis* Stukalina, 1988.
Stukalina, 1988c, p. 47.
Recognized number of named columnal species: 1 Early Silurian species
Early Silurian. Russia

**Tjulkulicrinus tjulkulensis* Stukalina, 1988c, p. 47, Fig. 29, no. 7 (*nomen nudum*) no description. Webster, 1993, p. 198.
Early Silurian. Russia

TOLENICRINUS Stukalina, 1975. **Pentagonocyclicus lenticularis* Stukalina, 1961.
Stukalina *in* Levitskiy *et al.*, 1968, p. 71 (*nomen nudum*). Stukalina, 1975, p. 149. Jeffords *in* Moore and Teichert, 1978, p. T937. Webster, 1986, p. 74. Webster, 1986, p. 391. Webster, 1993, p. 198.
Recognized number of named columnal species: 6 species. 1 Llandovery, 1 Early Silurian; 4 Late Silurian – Early Devonian
Early Silurian. Russia
Silurian, Llandoverian, Late Silurian – Early Devonian. Kazakhstan

Tolenicrinus alticostatus Yeltyschewa and Stukalina *in* Stukalina, 1975, p. 149, Pl. 36, fig. 16. Webster, 1986, p. 391. Stukalina, 1991, p. 186.
Late Silurian - Early Devonian, Ainasu Horizon; Kokbaital Horizon. Kazakhstan

Tolenicrinus clarus Stukalina, 1988c, p. 47, Fig. 29, no. 5 (*nomen nudum*), no description. Webster, 1993, p. 198.
Early Silurian. Russia

Tolenicrinus definitus (Stukalina, 1961). Stukalina in Levitskiy *et al.*, 1968, p. 71. Stukalina, 1975, p. 149. Webster, 1986, p. 391. Webster, 1991, p. 184, Fig. 16, no. k.
Pentagonocyclicus definitus Stukalina, 1961, p. 38, Pl. 1, fig. 1. Stukalina, 1965b, p. 135, Pl. 2, figs. 5-6. Webster, 1973, p. 306. Webster, 1986, p. 391.
Late Silurian - Early Devonian, Ainasu Horizon; Kokbaital Horizon. Kazakhstan

**Tolenicrinus lenticularis* (Stukalina, 1961). Stukalina *in* Levitskiy *et al.*, p. 71. Stukalina, 1975, p. 149. Webster, 1986, p. 391. Kurilenko *in* Kurilenko et al., 2002, p. 158, Pl. 54, figs. 9-11.
Pentagonocyclicus lenticularis Stukalina, 1961, p. 38, Pl. 2, fig. 4. Stukalina, 1965b, p. 135, Pl. 2, fig. 16. Webster, 1973, p. 308. Webster, 1986, p. 391. Stukalina, 1991, p. 184, Pl. 49, fig. 2; Fig. 16, no. i.
Late Silurian-Early Devonian, Ainasu Horizon; Kokbaital Horizon; Karaespinsky Suite. Russia, Argunsky Region; Kazakhstan
Region

Tolenicrinus salebrosus (Stukalina, 1961). Stukalina, 1975, p. 149. Webster, 1986, p. 391. Stukalina, 1991, p. 185, Fig. 16, nos. l-m.
Pentagonocyclicus salebrosus Stukalina, 1961, p. 37, Pl. 2, fig. 7. Webster, 1973, p. 310. Webster, 1986, p. 391.
Pentagonopentagonalis salebrosus Stukalina, 1965b, p. 135, Pl. 2, figs. 20-21. Webster, 1973, p. 310.
Late Silurian - Early Devonian, Ainasu Horizon; Karaespin Horizon, Pribalkhash Horizon. Kazakhstan

Tolenicrinus tolenensis (Stukalina, 1960). Stukalina, 1975, p. 149. Webster, 1986, p. 391.
Pentagonopentagonalis tolenensis Stukalina, 1960, p. 106, Fig. 5. Webster, 1973, p.
313. Webster, 1986, p. 391.

Silurian, late Llandoverian, *Pentamerus longiseptatus* Biozone. Kazakhstan, Chingiz Mountains

TOMEOCRINUS Dubatolova, 1971. **Pentagonocyclicus observabilis* Dubatolova, 1964.
Dubatolova, 1971, p. 79. Webster, 1977, p. 224. Jeffords *in* Moore and Teichert, 1978, p. T936.
Recognized number of named columnal species: 2 species, 1 Famennian, 1 Famennian/Tournaisian boundary beds
Devonian, Famennian. Russia
Devonian/Mississippian boundary. Afghanistan

Tomeocrinus costatus Stukalina, 1997a, p. 68, Pl. 9, fig. 14. Stukalina, 1997b, p. 411, Pl. 9, fig. 14.
Devonian/Mississippian, Famennian/Tournaisian boundary strata. Central Afghanistan

**Tomeocrinus observabilis* (Dubatolova, 1964). Dubatolova, 1971, p. 79. Webster, 1977, p. 225.
Pentagonocyclicus observabilis Dubatolova, 1964, p. 94, Pl. 14, figs. 8-9; Fig. 14. Dubatolova and Yeltyschewa, 1969, p. 68, Pl. 16, fig. 8. Webster, 1973, p. 309. Webster, 1977, p. 225.
Pentagonocyclitus observabilis (Dubatolova, 1964). Dubatolova, 1971, p. 79 (sic).
Devonian, Famennian. Russia, Kuznetz Basin; Armenia

TORROCRINUS Prokop and Petr, 1991. **T. grandis* Prokop and Petr, 1991b.
Prokop and Petr, 1991b, p. 365.
Recognized number of named columnal species: 1 Devonian, Pragian species
Devonian, Pragian. Czech Republic

**Torrocrinus grandis* Prokop and Petr, 1991b, p. 365, Pls. 1, figs. 1-2; 2, figs. 1-2. Prokop and Petr, 1998a, p. 12, Pl. 4, figs. 1-2.
Devonian, Pragian, Koneprusy Limestone. Czech Republic, Barrandian area

Tree stump-like cirrus root Brower and Veinus, 1978, p. 474, Pl. 25, fig. 6. Webster, 1986, p. 401.
Middle Ordovician, Decorah Shale. United States, Minnesota

TRIBRACHYOCRINUS M'Coy, 1849
M'Coy, 1851, p. 315.

Recognized number of named columnal species: 1 Permian species, series uncertain

**Tribrachyocrinus clarkii* M'Coy, 1849. M'Coy, 1851, p. 315, Pl. 12, figs. 2a-c.
Permian. Australia, New South Wales

Trigonal columnal Donovan, 1989d, p. 92, Pl. 11, fig. 8; Fig. 34, no. B. Webster, 1993, p. 198.
Ordovician, Katian (Ashgillian), Dufton Shales. United Kingdom

TRIGONOCRINUS Stukalina, 1969. *Nomen nudum*
Stukalina, 1969, p. 205. Jeffords *in* Moore and Teichert, 1978, p. T937.

Trigonocrinus vajgatschensis Yeltyschewa and Stukalina, 1963 = *Trigonocyclicyus vajgatschensis*

TRIGONOCYCLICUS Yeltyschewa, 1956, *Nomen vetitum.*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 1E. Yeltyschewa, 1959, p. 233, Fig. 1, no. 1E. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 1E. Dubatolova, 1964, p. 9, Fig. 1, no. 1E. Webster, 1973, p. 322. Webster, 1977, p. 225. Jeffords *in* Moore and Teichert, 1978, p. T936. Webster, 1986, p. 391. Donovan, 1989d, p. 87. Webster,
1993, p. 198.
Recognized number of named columnal species: 4 Ordovician, Katian species
Ordovician, Katian. Russia, France, Estonia, Ireland, United Kingdom

Trigonocyclicus abruptus Donovan, 1989d, p. 89, Pl. 12, fig. 10; Fig. 33, no. C. Webster, 1993, p. 198.
Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Trigonocyclicus acceptus Dubatolova, 1964 = **Trilobocrinus acceptus*

Trigonocyclicus rhiwlasensis Donovan, 1989d, p. 89, Pl. 8, figs. 7, 10; Fig. 33, no. D. Webster, 1993, p. 198.
Ordovician, Katian (Ashgillian), Rhiwlas Limestone. United Kingdom

Trigonocyclicus triangulatus Donovan, 1989d, p. 90, Pl. 11, figs. 1-3; Figs. 33, no. A; 34, no. A. Webster, 1993, p. 198.
Ordovician, Katian (Ashgillian), Sholeshook Limestone; Rhiwlas Limestone, Kildare Limestone, Keisley Limestone. Ireland, United Kingdom

Trigonocyclicus vajgatschensis Yeltyschewa and Stukalina, 1963, p. 56, Pl. 2, figs. 19-21; Fig. 22. Yeltyschewa, 1966, p. 57, Pl. 3, figs. 9-11. Webster, 1973, p. 322.
Trigonocrinus vajgatschensis Yeltyschewa and Stukalina, 1963. Stukalina, 1969, p. 205.
Ordovician, Katian (Ashgillian). Estonia

Trigonocyclicus cf. *vajgatschensis* Yeltyschewa and Stukalina, 1963. Le Menn *in* Chauvel and Le Menn, 1973, p. 47, Pl. 1, figs. 5-6. Le Menn *in* Chauvel, Meléndez, and Le Menn, 1975, p. 360, Pl. 3, fig. 8. Webster, 1977, p. 225. Webster, 1986, p. 392.
Ordovician, Katian. France

TRIGONOELLIPTICUS Yeltsychewa, 1956. *Nomen vetitum*

Yeltyschewa, 1956, p. 42, Fig. 1, no. 1F. Yeltyschewa, 1959, p. 233, Fig. 1, no. 1F. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 1F. Dubatolova, 1964, p. 9, Fig. 1, no. 1F. Webster, 1973, p. 322. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

TRIGONOHEXAGONALIS Yeltsychewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 1D. Yeltyschewa, 1959, p. 233, Fig. 1, no. 1D. 1964b, p. 75, Fig. 114, no. 1D. Dubatolova, 1964, p. 9, Fig. 1, no. 1D. Webster, 1973, p. 322. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

TRIGNONPENTAGONALIS Yeltsychewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 1C. Yeltyschewa, 1959, p. 233, Fig. 1, no. 1C. Yeltyschewa, 1964b, p. 75, Fig. 114, no. 1C. Dubatolova, 1964, p. 9, Fig. 1, no. 1C. Webster, 1973, p. 322. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

TRIGONOTETRAGONALIS Yeltsychewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 1B. Yeltyschewa, 1959, p. 233, Fig. 1, no. 1B. 1964b, p. 75, Fig. 114, no. 1B. Dubatolova, 1964, p. 9, Fig. 1, no. 1B. Webster, 1973, p. 323. Jeffords *in* Moore and Teichert, 1978, p. T937.
Theoretical genus, no known species

TRIGONOTRIGONALIS Yeltsychewa, 1956. *Nomen vetitum*
Yeltyschewa, 1956, p. 42, Fig. 1, no. 1A. Yeltyschewa, 1959, p. 233, Fig. 1, no. 1A. 1964b, p. 75, Fig. 114, no. 1A. Dubatolova, 1964, p. 9, Fig. 1, no. 1A. Webster, 1973, p. 323. Jeffords *in* Moore and Teichert, 1978, p. T936.
Recognized number of named columnal species: 2 species. 1 middle Devonian, 1 Mississippian, Viséan
Middle Devonian. China
Mississippian, Viséan. China, Kazakhstan

Trigonotrigonalis asymmetricus Yeltyschewa *in* Dubatolova and Shao, 1959, p. 42, Pl. 1, fig. 1. Webster, 1973, p. 323.
Mississippian, Viséan. China, Hunan Province; Kazakhstan

Trigonotrigonalis panxiensis Mu and Wu, 1974, p. 247, Pl. 118, figs. 11-12. Webster, 1986, p. 392.
Middle Devonian, Huaning Group, Po´hsi Formation. China, Yunnan Province

TRILOBOCRINUS Dubatolova, 1971. **Trigonocyclicus acceptus* Dubatolova, 1964. Stukalina, 1986, p. 51.
Dubatolova, 1971, p. 26. Webster, 1977, p. 225. Jeffords *in* Moore and Teichert, 1978, p. T936. Donovan, 1989d, p. 90. Webster, 1993, p. 199.
Recognized number of named columnal species: 3 species. 1 Ordovician, Katian; 2 Devonian, 1 Early Devonian, 1 Frasnian
Ordovician, Katian. United Kingdom

Early Devonian. Russia
Devonian, Frasnian. France

**Trilobocrinus acceptus* (Dubatolova, 1964). Dubatolova, 1971, p. 26. Webster, 1977, p. 225.
Trigonocyclicus acceptus Dubatolova, 1964, p. 61, Pl. 8, fig. 2. Dubatolova, 1967, p. 36, Pl. 6, fig. 10; Fig. 3. Dubatolova, 1971, p 26. Webster, 1973, p. 322. Webster, 1977, p. 225.
Early Devonian. Russia, Salair, Tas-Hayahtah Mountains, Kuznetz Basin

Trilobocrinus boloniensis Le Menn, 1988b, p. 474, Pl. 54, figs. 17-18. Webster, 1993, p. 199.
Devonian, Frasnian, Beaulieu Formation, Noces Member. France

Trilobocrinus trilobus Donovan, 1989d, p. 91, Pl. 8, figs. 1-2; Fig. 33, no. B. Webster, 1993, p. 199.
Late Ordovician, Katian (Ashgillian), Keisley Limestone. United Kingdom

Trimerism Donovan, 1985e, p. 21, Fig. 2, no. 18. Webster, 1988, p. 216.
Late Ordovician, Katian (Ashgillian). United Kingdom

TROCHITA Hofer, 1760.
Hofer, 1760, p. 188. Jeffords *in* Moore and Teichert, 1978, p. T936.
Recognized number of named columnal species. 2 species. possibly Paleozoic, 1 possibly Devonian
Paleozoic - Cenozoic. Europe

Trochita cylindricus 1 Hofer, 1760, p. 188, Pl. 6, figs. 1-3.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 2 Hofer, 1760, p. 189, Pl. 6, figs. 6-7.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 3 Hofer, 1760, p. 189, Pl. 6, figs. 4-5.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 4Hofer, 1760, p. 189, Pl. 6, figs. 8.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 5 Hofer, 1760, p. 189, Pl. 6, figs. 9-11.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 6 Hofer, 1760, p. 190, Pl. 6, figs. 12-13.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 7 Hofer, 1760, p. 190, Pl. 6, figs. 14-16.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 8 Hofer, 1760, p. 191, Pl. 6, fig. 17.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 9 Hofer, 1760, p. 191, Pl. 6, figs. 18-19 (incorrectly given as 19, 19).
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 10 Hofer, 1760, p. 191, Pl. 6, fig. 20.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 11 Hofer, 1760, p. 192, Pl. 6, fig. 21.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 12 Hofer, 1760, p. 192, Pl. 6, fig. 22.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 13 Hofer, 1760, p. 192, Pl. 6, figs. 23-24.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 14 Hofer, 1760, p. 192, Pl. 6, fig. 25.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 15 Hofer, 1760, p. 192, Pl. 6, fig. 26.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 16 Hofer, 1760, p. 193, Pl. 6, fig. 27.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 17 Hofer, 1760, p. 193, Pl. 6, fig. 28.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 18 Hofer, 1760, p. 193, Pl. 6, fig. 29.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus 22 Hofer, 1760, p. 194, Pl. 6, fig. 36.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus tuberculis 23 Hofer, 1760, p. 195, Pl. 6, fig. 37, 39.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus tuberculis(24 Hofer, 1760, p. 195, Pl. 6, fig. 76.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus tuberculis 25 Hofer, 1760, p. 195.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus tuberculis 26 Hofer, 1760, p. 195, Pl. 6, fig. 40.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus tuberculis 27 Hofer, 1760, p. 196, Pl. 6, fig. 41.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus tuberculis 28 Hofer, 1760, p. 196, Pl. 6, fig. 42.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus tuberculis 29 Hofer, 1760, p. 196, Pl. 6, fig. 43.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus tuberculis 30 Hofer, 1760, p. 196, Pl. 6, fig. 44.
Age Uncertain, possibly Paleozoic. Europe

Trochita cylindricus tuberculis 31 Hofer, 1760, p. 197, Pl. 6, fig. 45.
Age Uncertain, possibly Paleozoic. Europe

Trochita pentagonus 32 Hofer, 1760, p. 197, Pl. 6, fig. 18.
Age Uncertain, possibly Paleozoic. Europe

Trochita pentagonus 33 Hofer, 1760, p. 197, Pl. 6, figs. 46-47.
Age Uncertain, possibly Paleozoic. Europe

Trochita quadratus Hofer, 1760, p. 201, Pl. 6, fig. 77.
Age uncertain, possibly Devonian. Europe

Entrochus ex *Trochitis cylindricis* Hofer, 1760, p. 194, Pl. 6, fig. 32
Age uncertain, possibly Paleozoic. Europe

Trochiten Quenstedt, 1835, p. 89.
Permian, Zechstein. Germany

Trochiten und Entrochiten Walch, 1762, p. 77, 78, Pl. 3, fig. 1.
No age given, probably both Paleozoic and post-Paleozoic forms present

TROCHITES Bertrand, 1763.
Bertrand, 1763, p. 231. Jeffords *in* Moore and Teichert, 1978, p. T936.
Note. *Trochites* was introduced in a dictionary of names, without a type species. The term has been used to refer to fossil crinoid stems of Paleozoic and Mesozoic age.
Recognized number of named columnal species: 1 Mississippian, Viséan species

Trochites rhombus Quenstedt, 1876, p. 585, Pl. 110, Fig. 30. (A *Platycrinites*, GDW).
Mississippian, Viséan (Osagean), lower part of Burlington Limestone. United States, Iowa

Trochites sp.
Fischer de Waldheim, 1811, p. 27, Pl. 1, fig. 4.
Carboniferous. Russia

Fischer de Waldheim, 1811, p. 27, Pl. 1, fig. 5.
Carboniferous. Russia
Fischer de Waldheim, 1811, p. 27, Pl. 1, fig. 6 (a platycrinitid, GDW).
Carboniferous. Russia
Fischer de Waldheim, 1811, p. 27, Pl. 1, fig. 7.
Carboniferous. Russia
Fischer de Waldheim, 1834, p. 323.
Carboniferous. Russia

TROCHOCRINITES Portlock, 1843. **T. laevis* Portlock, 1843.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Ireland

**Trochocrinites laevis* Portlock, 1843. Donovan, 1986d, p. 50, Pl. 5, fig. 11. Webster, 1993, p. 199.
Ordovician, Katian (middle Caradocian), Bardahessiagh Formation, or Ashgillian, Killey Bridge Formation. Ireland

TRYBLIOCRINUS Geinitz, 1867.
Le Menn, 1980, p. 253. Haude, 1981, p. 188, Fig. 2, right. Webster, 1986, p. 392.
Recognized number of named columnal species: 2Devonian species, 1 Pragian, 1 Emsian
Devonian, Pragian. France
Devonian, Emsian. Spain

**Trybliocrinus flatheanus* Geinitz, 1867. Ubaghs *in* Moore and Teichert, 1978, p. T79, Fig. 54, no. 11. Webster, 1986, p. 392.
Devonian, Emsian. Spain
Devonian, Emsian, La Vid Shale. Spain

Trybliocrinus plougastelensis Le Menn, 1980, p. 253, Pl. 35, figs. 5-9. Le Menn, 1985, p.
65, Pl. 10, figs. 8-12; Fig. 9 no. C. Webster, 1986, p. 392. Webster, 1988, p. 216. Le Menn in Le Menn et al., 2002, p. 28, Pl. 2, fig. 7.
Devonian, Pragian (early Siegenian), l'Armorique Formation. France, Armorican Massif

Trybliocrinus spp.
Ruhrmann, 1971b, p. 234, Fig. 3. Webster, 1977, p. 173.
Devonian, Emsian, La Vid Shale. Spain
Gluchowski, 1993a, p. 42, Fig. 5, nos. K-M.
Devonian, Givetian, Laskowa Gora Beds. Poland
Chlupac *in* Chlupac *et al.*, 1998, p. 115, Pl. 51, fig. 10.
Devonian, Pragian, Koneprusy Limestone. Czech Republic, Prague Basin
Seilacher and MacClintock, 2005, p.232, Fig. 13.
Early Devonian

TSCHIRONOCRINUS Stukalina, 1973. **T. tschironensis* Yeltyschewa and Stukalina *in* Stukalina, 1973.
Stukalina, 1973, p. 43. Webster, 1977, p. 225. Jeffords *in* Moore and Teichert, 1978, p. T936. Webster, 1986, p. 392.
Recognized number of named columnal species: 3 species. 2 Pennsylvanian, 1 Moacovian, 1 Westphalian; 1 Pennsylvanian? – Early Permian
Pennsylvanian, Moscovian, Westphalian. Russia
Pennsylvanian? – Early Permian. Russia

Tschironocrinus antinaoensis Hlebszvitsch, 2004c, p. 502, Fig. 1, nos. B-E.
Pennsylvanian, Westphalian, Las Salinas Formation. Argentina

Tschironocrinus quintuplex Dubatolova *in* Dubatolov, 1976, p. 81, Pl. 23, fig. 1; Fig. 2. Webster, 1986, p. 392.
Pennsylvanian, Moscovian, Taskuduk Suite, Severosayak Horizon. Russia, Northeastern Pribalkhash

**Tschironocrinus tschironensis* Yeltyschewa and Stukalina *in* Stukalina, 1973, p. 43, Pl. 4, figs. 6-8. Webster, 1977, p. 225. Kurilenko *in* Kurilenko et al., 2002, p. 260, Pl. 96, figs. 1-5, 7-8.
Pennsylvanian, late Bashkirian - Early Permian, Bashkirsky Tier. Russia, Far East Transbaikal

Tuberous holdfast Hollis and Ausich, 2008, p. 137k, Fig. 5, nos, A-B.
Gilbertsocrinus tuberosus (Lyon and Casseday 1859) Lane, 1963. Hollis and Ausich,
2008, p. 137.

TUNGUSKOCRINUS Arendt, 1963.
Recognized number of named columnal species: 1 Ordovician, Darriwilian – Sandbian species
Ordovician, Darriwilian – Sandbian. Russia

**Tunguskocrinus ivanovae* Arendt, 1963. Stukalina, 1979a, p. 136, Pl. 30, fig. 1. Webster, 1986, p. 392.
Ordovician, Darriwilian – Sandbian, Mangazei Horizon. Russia, Central Siberia

TURUCHANICRINUS Stukalina, 1982. *Nomen nudum* **T. turuchanensis* Stukalina, 1982.
Stukalina, 1982b, p. 141, no description of genus or type species. Stukalina, 1986, p.
74. Webster, 1988, p. 216. Webster, 1993, p. 199.
TARNAVICRINUS Stukalina, 1986, p. 108 (nomen nudum). Stukalina, 2000, p. 50.
Recognized number of named columnal species: 4 Silurian species, 1 Llandoverian, 1 Wenlockian, 1 Early Silurian, 1 Silurian uncertain
Silurian Lllandoverian. Uzebekistan
Early Silurian. Russia, Siberian Platform; Poland

Turuchanicrinus demshinensis (Yeltyschewa, 1975). Stukalina, 1986, p. 74. Webster, 1993, p. 199.
Particrinus demshinensis Yeltyschewa, 1975, p. 138, Pl. 2, figs. 23-24. Gluchowski, 1981a, p. 101, Fig. 3. Gluchowski, 1981b, p. 39, Pl. 1, fig. 4. Webster, 1986, p. 371. Webster, 1988, p. 201. Gluchowski, Piotrowski, and Tomczykowa, 1991, p. 293, Pl. 108, fig. 23. Webster, 1993, p. 199.
Silurian, Wenlockian, Bielskian, Kitaigorod Horizon, Demshin Layer. Russia, Podolia; Poland

**Turuchanicrinus sectus* (Schewtschenko, 1971). Stukalina, 1986, p. 74. Webster, 1993, p. 199.
Pentagonocyclicus sectus Schewtschenko, 1971, p. 24, Pl. 5, figs. 3-4; Fig. 29. Webster, 1977, p. 214. Webster, 1993, p. 199.
Silurian, middle Llandoverian, Bilfurak, Daurich, and Mukhkak Horizons. Southern Tien Shan, Zeravshan-Gissar Mountain Region. Uzbekistan

**Turuchanicrinus turuchanensis* Stukalina, 1982a (*nomen nudum*). Stukalina, 1982b, p. 141, Fig. 28, no. sh (*nomen nudum*), no description. Stukalina, 1986, p. 74 (*nomen* nudum), no description. Webster, 1988, p. 216. Webster, 1993, p. 199. Stukalina, 2000, p. 50, Pl. 4, fig. 3; Fig. 11, no. 1.
Early Silurian, Khaastyrsky Horizon, upper part of Khaastyrskoy Suite. Russia, Siberian Platform

Turuchanicrinus verrucosus (Yeltyschewa, 1975). Stukalina, 1986, p. 74. Webster, 1993, p. 199.
Particrinus verrucosus Yeltyschewa, 1975, p. 137, Pl. 2, fig. 22. Webster, 1993, p. 199.
Particirnus verrucosus (Yeltyschewa, 1975). Webster, 1986, p. 372 (sic).
Silurian, Kitaigorod Horizon, Maryanov Layer. Russia, Podolia

Twin-holed crinoid stems Nelson, 1965, p. 19, Figs. 3-4. Webster, 1973, p. 332.
Early Devonian. Northern Canada

Twisted pluricolumnal associated with detached crinoid arms Wright, 1983, p. 587, Pl. 65, fig. 1. Webster, 1988, p. 216.
Late Ordovician, Katian, Gorllwyn Slate. United Kingdom

Two-hole pelma ossicles Johnson, Boucot, and Gronberg, 1968, p. 413, Fig. 4. Webster, 1977, p. 231.
Devonian, Emsian, Telegraph Canyon Formation. United States, Nevada

"Two-holed crinoid" stems Nelson, 1975, p. 592, Pl. 26, fig. 3. Webster, 1986, p. 401.
Devonian, late Emsian, middle Eifelian. Northern Canada

Types of columnals Westhead, 1978, Fig. 3, no. b. (Diagramatic)

TZVETAEVOCRINUS Arendt, 2002. **Tzvetaevocrinus cadiformis* Arendt, 2002 (OD)

Arendt, 2002, p. 142.
Recognized number of named columnal species: 1Mississippian, Serpukhovian species
Mississippian, Serpukhovian, Steshev Horizon. Russia, Moscow Basin

**Tzvetaevocrinus cadiformis* Arendt, 2002, p. 142, Fig. 5, nos. k-l.
Mississippian, lower part of Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

UMBONATOCRINUS Stukalina, 1999. **Umbonatocrinus radialis* Stukalina, 1999.
Stukalina, 1999a, p. 22. Stukalina, 1999b, p. 143.
Recognized number of named columnal species: 1Permian, Dzhulfian species
Permian, Dzhulfian. Russia, southern Primorye

**Umbonatocrinus radialis* Stukalina, 1999a, p. 22, Pl. 2, fig. 14. Stukalina, 1999b, p. 143, Pl. 2, fig. 14.
Permian, Dzhulfian, lower part of Lyudyanzin Horizon. Russia, southern Primorye

Unabraded columnal Pabian and Holterhoff, 1988, p. 83, Fig. 1, no. A. Webster, 1993, p. 199.
Pennsylvanian, Virgilian, Calhoun Shale. United States, Kansas

Undeterminable columnal Kutscher, 1971, p. 115, Pl. 1. Webster, 1977, p. 231.
Devonian, Emsian, Hunsrückschiefer. Germany

Undeterminable stem segment Kutscher, 1971, p. 115, Pl. 1. Webster, 1977, p. 231.
Devonian, Emsian, Hunsrückschiefer. Germany

Unidentified columnals
Yakovlev *in* Yakovlev and Ivanov, 1956, Pl. 10, figs. 28-30, 32. Webster, 1973, p. 332.
Early Permian. Russia, Ural Mountains
Elias, 1957, p. 384, Pl. 41, figs. 16-20. Webster, 1973, p. 332.
Mississippian, Chesterian, Redoak Hollow Formation. United States, Oklahoma
Yeltyschewa, 1959, p. 234. Webster, 1973, p. 332.
Paleozoic and Mesozoic. Russia
Lane, 1976a, Unnum. Fig. p. 15. Webster, 1986, p. 400.
No age or locality

Unidentified crinoid columnal Breitbach, 1966, p. 121, Fig. 6. Webster, 1973, p. 332.
Ordovician, Katian (late Caradocian), Lederschiefer. Germany

Unidentified crinoid columnals Boucot *et al.*, 1958, p. 860, Pl. 3, figs. 4-5. Webster, 1973, p. 332.
Early Devonian, Bernardston Formation. United States, Massachusetts

Unidentified crinoid columnals, stereom Lapham, Ausich, and Lane, 1976, p. 247, Fig. 1, nos. A-B, D. Webster, 1986, p. 401.

Unidentified crinoid stem fragment Genser, 1965, p. 155, Fig. 3. Webster, 1973, p. 332.
Mississippian, Tournaisian. Germany

Unidentified stem segment
Ivanova, 1958, Pls. 11, fig. 5; 14, fig. 6; Figs. 4zh, 56a. Webster, 1973, p. 332.
Middle Carboniferous. Russia, Moscow Syncline
Yeltyschewa, 1970, p. 26, Fig. 10. Webster, 1977, p. 231.
Age and locality uncertain

UNIFORMICRINUS Stukalina, 1997. **Pentagonocyclicus uniformis* Stukalina, 1973.
Stukalina, 1997c, p. 42, Fig. 3, no. g. Stukalina, 1997d, p. 608, Fig. 3, no. e.
Recognized number of named columnal species: 1 Mississippian, Viséan – Serpukhovian species
Mississippian, Viséan - Serpukhovian. Russia, western Siberia; Mongolia

**Uniformicrinus uniformis* (Stukalina, 1973).
Pentagonocyclicus uniformis Stukalina, 1973, p. 48, Pl. 6, figs. 8-9. Webster, 1977, p. 214. Dubatolova and Dubatolova, 1984, p. 165, Pl. 25, figs. 6-12; Fig. 9. Webster, 1988, p. 203. Kurilenko *in* Kurilenko et al., 2002, p. 263, Pl. 94, figs. 6-7.
Mississippian, late Viséan – Serpukhovian. Russia, Transbaikal, western Siberia, Mongolia

UNILINEATOCRINUS Dubatolova and Yeltsychewa, 1969. **U. unilineatus* Yeltyschewa and Dubatolova *in* Dubatolova and Yeltyschewa, 1969.
Dubatolova and Yeltyschewa, 1969, p. 64. Skoropisceva, 1969, p. 43. Webster, 1977, p. 225. Jeffords *in* Moore and Teichert, 1978, p. T936.
Note. Yeltyschewa and Polyarnaya, 1975, assigned *U. unilineatus* to *Graphosterigma* but did nothing with either of the other two species. I have not looked at these taxa and am therefore leaving the other species under the genus
for future studies by columnal workers, GDW.
Recognized number of named columnal species: 8 Mississippian species, 2 Viséan, 6 Serpukhovian
Mississippian, Viséan. China
Mississippian, Serpukhovian Russia

Unilineatocrinus cinculatus Arendt, 2002, p. 134, Pls. 13, figs. 2a-2b; Fig. 3, nos. e-f.
Mississippian, early Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

Unilineatocrinus falsus (Dubatolova and Shao, 1959). Dubatolova and Yeltyschewa, 1969, p. 64. Webster, 1977, p. 225.
Pentagonocyclicus falsus Dubatolova and Shao, 1959, p. 45, Pl. 1, fig. 10. Dubatolova and Yeltyschewa, 1969, p. 64. Webster, 1973, p. 307. Webster, 1977, p. 225.

Mississippian, Viséan. China, Hunan Province

Unilineatocrinus inconstantistellatus Arendt, 2002, p. 132, Pl. 13, figs. 3-5; 14, figs. 1a-1b; Fig. 3, nos. c-d.
Mississippian, early Serpukhovian, Steshev Horizon; Tarusa Horizon. Russia, Moscow Basin

Unilineatocrinus rectus Arendt, 2002, p. 135, Pl. 12, figs. 9a-9b; Fig. 3, no. I.
Mississippian, early Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

Unilineatocrinus schansinicus (Dubatolova and Shao, 1959). Dubatolova and Yeltsychewa, 1969, p. 64. Webster, 1977, p. 226.
Pentagonocyclicus schansinicus Dubatolova and Shao, 1959, p. 45, Pl. 1, fig. 11. Dubatolova and Yeltyschewa, 1969, p. 64. Webster, 1973, p. 310. Webster, 1977, p. 226.
Mississippian, Viséan. China, Hunan Province

Unileantocrinus serpukhovensis Arendt, 2002, p. 135, Pl. 14, figs. 3-4, 7; Figs. 3, nos. j-k; 4, nos. a-b.
Mississippian, early Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

Unilineatocrinus tarusaensis Arendt, 2002, p. 134, Pl. 13, figs. 6a-6b; Fig. 3, nos. g-h
Mississippian, early Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

Unilineatocrinus tenuicarinatus Arendt, 2002, p. 136, Pls. 14, figs. 5-6; 15, figs. 5a-5b; Fig. 4, nos. c-d. (Genus questioned on Fig. 4, figures based on types).
Mississippian, early Serpukhovian, lower part of Steshev Horizon. Russia, Moscow Basin

**Unilineatocrinus unilineatus* Yeltyschewa and Dubatolova *in* Dubatolova and Yeltyschewa, 1969 = *Graphosterigma unilineatus*

Unnamed columnals
Arendt, 1961, p. 103, fig. 2. Webster, 1973, p. 332.
Middle Carboniferous, Myachkov Horizon. Russia, Moscow Basin
Kleinschmidt, 1966, p. 707, Figs. 1-9. Webster, 1973, p. 332.
Paleozoic. Karnic Alps

Unknown crinoid, large circular Südkamp, 2007, p. 196. Fig. 13, nos. B-C.
Devonian, early Emsian, Hunsrückschiefer. Germany

Unknown crinoid, attachment structure Südkamp, 2007, p. 196. Fig. 13, no. F.
Devonian, early Emsian, Hunsrückschiefer. Germany

Unknown columnal Brower, 2008b, p. 582, Fig. 5. no. 4.

Ordovician,Sandbian (early Mohawkian), Hatter Limestone. United States, Pennsylvania

Unknown, early camerate crinoid Guensburg, et al., 2010, p. 433, Fig. 2.
Ramseyocrinus columnal Donovan, 1986. Guensburg et al., 2010, p. 433.
Ordovician, Sandbian (early Mohawkian). United States, Pennsylvanian

URICOCRINUS Milicina, 1977 = ***PANDOCRINUS***

Uricocrinus uricoformis Milicina, 1977 = *Pandocrinus uricoformis*

URUSHICRINUS Stukalina and Schischkina, 1979. **Anthinocrinus eugeniae* Yeltyschewa and Dubatolova, 1967.
Stukalina and Schischkina, 1979, p. 164. Stukalina, 1986, p. 69. Webster, 1986, p. 393. Webster, 1988, p. 216. Webster, 1993, p. 199. Stukalina, 1998, p. 18.
Recognized number of named columnal species: 6 Devonian species: 1 Pragian, 1 Emsian, 1 Givetian, 1 Givetian – Frasnian, 1 Frasnian, 1 Early - Middle Devonian Uncertain
Early Devonian. Kazakhstan
Devonian, Pragian – Frasnian. Russia
Devonian, Emsian. France
Devonian, givetian. Poland
Devonian. Russia, Far East, Kazakhstan; France

Urushicrinus digitatus Kurilenko *in* Kurilenko et al., 2002, p. 153, Pl. 66, figs. 16-17.
Devonian, early Frasnian, Bolsheneversky Suite. Russia, Transbaikal

**Urushicrinus eugeniae* (Yeltyschewa and Dubatolova, 1967). Stukalina and Schischkina, 1979, p. 164. Le Menn, 1985, p. 113, Pl. 24, fig. 21. Webster, 1986, p. 393. Webster, 1988, p. 216. Stukalina, 1991, p. 177, Fig. 14, no. k.
Anthinocrinus eugeniae Yeltyschewa and Dubatolova, 1967, p. 40, Pl. 5, figs. 3-6 (*non* figs. 3-7 as given in text), Fig. 17. Modzalevskaya, 1967, Pl. 4, fig. 17. Yeltyschewa, 1969, p. 160, Pl. 41, figs. 4-5. Le Menn, 1970a, p. 58, Pl. 8, figs. 3-4. Webster, 1973, p. 277. Le Menn *in* Le Menn and Racheboeuf, 1976, p. 313, Pl. 30, fig. 6. Webster, 1977, p. 185. Webster,1986, p. 327. Webster, 1986, p. 393.
Devonian, early Emsian, Grawacke du Faou Formation, Montguyon Formation. France, Armorican Massif
Early Devonian, Sardzhal and Kazakh Horizons. Kazakhstan

Urushicrinus parvulus Kurilenko, 2000, p. 121, Pl. 1, figs. 1-5. Kurilenko *in* Kurilenko et al., 2002, p. 153, Pl. 67, figs. 1-3.
Devonian, Givetian - early Frasnian, Yakovlev Formation. Russia, Far East Transbaikal

Urushicrinus perbellus Gluchowski, 1993a, p. 50, 66, Fig. 8, nos. H-I.
Devonian, late Givetian, Crinoid-Coral level; Jazwica Member. Poland

Urushicrinus raricostatus (Yeltyschewa and Dubatolova, 1967). Stukalina and Schischkina, 1979, p. 164. Webster, 1986, p. 393.
Anthinocrinus raricostatus Yeltyschewa and Dubatolova, 1967, p. 41, Pl. 5, figs. 10-12. Modzalevskaya, 1967, p. 545, Pl. 3, fig. 7. Yeltyschewa, 1969, p. 160, Pl. 25, figs. 7-8 (incorrectly called *Anthinocrinites raricostatus* on plate explanation). Webster, 1973, p. 278. Webster, 1977, p. 186. Webster, 1986, p. 393.
Early-Middle Devonian, Bolshenever Suite. Russia, Kazakhstan, Far East, upper Amur Basin

Urushicrinus rzonsnickae Kurilenko *in* Kurilenko et al., 2002, p. 154, Pl. 58, figs. 7-12, 19. Kurilenko and Kulkov, 2008, p. 464, fig. 3, no. L.
Devonian, Pragian, Bolsheneversky Suite; Ildican Suite, Bolshoi Never Suite. Russia, Transbaikal

Urushicrinus spp.
Gluchowski, 2002, p. 322, Fig. 2, nos. B-C.
Devonian, Famennian, *Pa. triangularis* to *S. praesulcata* Biozones. Poland
Gluchowski and Racki, 2005, p. 165, Fig. 4, no. E.
Devonian, Famennian, Pilton Beds; Mississippian, Tournaisian, Staunton Beds. United Kingdom, North Devon

UZENICRINUS Stukalina, 1982. **Pentagonopentagonalis catagraphus* Stukalina, 1960.
Stukalina, 1982a, p. 191. Stukalina, 1986, p. 66. Webster, 1988, p. 217; 1993, p. 199.
Recognized number of named columnal species: 1 Silurian, Llandoverian species
Silurian, landoverian. Kazakhstan

**Uzenicrinus catagraphus* (Stukalina, 1960). Stukalina, 1982a, p. 191. Webster, 1988, p.
216.
Pentagonopentagonalis catagraphus Stukalina, 1960, p. 107, Fig. 6. Webster, 1973, p. 312. Webster, 1977, p. 191. Webster, 1988, p. 217.
Catagraphiocrinus catagraphus (Stukalina, 1960). Stukalina, 1970b, p. 79. Webster, 1977, p. 191. Webster, 1988, p. 217.
Silurian, late Llandoverian, *Pentamerus longiseptatus* Biozone. Kazakhstan, Chingiz Mountains,

VALLATICRINUS Stukalina, 1980. **V. vallatus* Stukalina, 1980.
Stukalina, 1980d, p. 238. Stukalina, 1986, p. 87. Webster, 1986, p. 393. Webster, 1993, p. 200.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Kazakhstan

**Vallaticrinus vallatus* Stukalina, 1980d, p. 238, Pl. 2, fig. 14. Webster, 1986, p. 393.
Ordovician, Katian, Dulankaren Horizon. Southern Kazakhstan

VASOCRINUS Lyon, 1857.

Recognized number of named columnal species: 1 Early Devonian species
Early Devonian.Uzbekistan

Vasocrinus alveatus Schewtschenko, 1966 = *Facetocrinus alveatus*

Vasocrinus alveolatus Stukalina, 1998 = *Facetocrinus alveolatus*

Vasocrinus tuberculifer Schewtschenko, 1966 = *Facetocrinus tuberculifer*

Vasocrinus yeltyschewae Schewtschenko, 1966, p. 131, Pl. 4, fig. 10; Fig. 1. Webster, 1973, p. 323.
Early Devonian, Pandzhrut Horizon. Uzbekistan, Tien Shan Mountains

VASTICRINUS Stukalina and Kurilenko, 2001. *******Pentagonocyclicus vastus* Yeltyschewa and Dubatolova, 1960.
Kurilenko *in* Kurilenko et al., 2002, p.149.
Recognized number of named columnal species: 1 Devonian, Pragian, Eifelian species
Devonian, Pragian; Eifelian: Russia, Far East

**Vasticrinus vastus* (Yeltyschewa and Dubatolova, 1960). Kurilenko *in* Kurilenko et al., 2002, p.149, Pls. 61, figs. 1-7; 63, figs. 1-7. Kurilenko and Kulkov, 2008, p. 464, Fig. 3, no. C
Pentagonocyclicus vastus Yeltyschewa and Dubatolova, 1960, p. 370, Pl. 70, figs. 3-4; Fig. 44. Yeltyschewa and Dubatolova, 1967, p. 50, Pl. 7, figs. 5-9. Modzalevskaya, 1967, p. 546, Pls. 4, fig. 23; 5, fig. 1. Yeltyschewa, 1969, p. 162, Pls. 42, figs. 1-3; 59, figs. 8-9. Dubatolova, 1971, p. 75. Webster, 1973, p. 311. Webster, 1977, p. 207, 2114. Kurilenko *in* Kurilenko et al., 2002, p.149.
Mediocrinus vastus (Yeltyschewa and Dubatolova, 1960). Dubatolova, 1971, p. 75. Webster, 1977, p. 207. Kurilenko *in* Kurilenko et al., 2002, p.149.
Devonian, Pragian, Ildican Suite, Bolshoi Never Suite; Eifelian. Russia, Far East, Transbaikal, Upper Amur Basin.

Verankerungs-Strukturen ("Wurzeln") [Holdfast structures (roots)]. Haude and Thomas, 1992, p. 342, Pl. 1, figs. A-H; Figs. 1-3.
Mississippian, *Goniatites* Biozone, cuIII. Germany

VERTICILLOPORA Rezak, 1959. **V. annulata* Rezak, 1959.
Rezak, 1959, p. 125. Wood, 1965, p. 278. Webster, 1977, p. 226. Jeffords *in* Moore and Teichert, 1978, p. T936.
Recognized number of named columnal species: 1 Middle Silurian species
Middle Silurian. United States

**Verticillopora annulata* Rezak, 1959, p. 125, Pl. 3, figs. 1-8; 4, figs. 1-5, 7. Webster, 1977, p. 226.
Middle Silurian. United States, California, Nevada, Utah

VIALOVICYSTIS Hynda, 1984. **V. gradatus* Hynda, 1984.
Hynda, 1984, p. 58. Webster, 1988, p. 217.
Recognized number of named columnal species: 1 Ordovician, Darriwilian – Sandbian species
Ordovician, Darriwilian - Sandbian. Estonia

**Vialovicystis gradatus* Hynda, 1984, p. 58, Pl. 1, figs. 1-3; Fig. 1, nos. a-b. Webster, 1988, p. 217.
Ordovician, Darriwilian - Sandbian. Estonia, southwestern part of the East European Platform

VIETNAMICRINUS Huyen, 1983. **V. stukalinae* Huyen, 1983.
Huyen, 1983, p. 99. Huyen, 1984, p. 95. Webster, 1988, p. 217.
Recognized number of named columnal species: 1 Middle Devonian species
Middle Devonian. Vietnam

**Vietnamicrinus stukalinae* Huyen, 1983, p. 100, Fig. 1. Huyen, 1984, p. 96, Fig. 1.
Middle Devonian, Mukbai Strata. Vietnam

VIRUCRINUS Rozhnov, 1990.
Recognized number of named columnal species: 1 Ordovician, Katian species
Ordovician, Katian. Estonia

**Virucrinus kegelensis* (Yeltyschewa, 1966).
Pentagonocyclicus kegelensis Yeltyschewa, 1966, p. 59, Pl. 3, figs. 14-23. Webster, 1973, p. 308.
Ordovician, Katian. Estonia

WANAKASTAURUS Moore and Jeffords, 1968. **W. delicatus* Moore and Jeffords, 1968.
Moore and Jeffords, 1968, p. 53. Webster, 1973, p. 323. Jeffords *in* Moore and Teichert, 1978, p. T936.
Recognized number of named columnal species: 1 Devonian, Givetian species
Devonian, Givetian. United States

**Wanakastaurus delicatus* Moore and Jeffords, 1968, p. 53, Pl. 8, figs. 9-10. Webster, 1973, p. 323.
Devonian, Givetian (Erian), Wanakah Shale. United States, New York

Wanakastaurus delicatus Moore and Jeffords, 1968 (part) = *Ononicrinus delicatus*

Wanakastaurus delicatus Moore and Jeffords, 1968 = (part) = *Ononicrinus gracilis*

Webericrinidae Stukalina, 1986, p. 92, Fig. 26, no. 2. Stukalina, 1988c, p. 37, Fig. 22, no. 2. Webster, 1993, p. 200.
Early - Late Ordovician

WEBERICRINUS Stukalina, 1979. **W. variabilis* Stukalina, 1979.

Stukalina, 1979d, p. 160. Stukalina, 1986, p. 55. Webster, 1986, p. 393. Webster, 1993, p. 200.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Kazakhstan

**Webericrinus variabilis* Stukalina, 1979d, p. 162, Figs. 1; 3, nos. 1-6. Stukalina, 1986, p. 55, Pl. 8, figs. 1-6; Fig. 12, no. 5 (not fig. 7 as given p. 55). Webster, 1986, p. 393. Stukalina, 1988c, p. 58, Pl. 4, figs. 18-21; Fig. 24, no. 2. Webster, 1993, p. 200.
Ordovician, Sandbian, Anderken Horizon. Southern Kazakhstan

WENJUKOWICRINUS Stukalina, 1998. **Anthinocrinus wenjukowi* Yeltyschewa *in* Yeltyschewa and Stukalina, 1977.
Stukalina, 1977, p. 66 *nomen nudum.* Stukalina, 1998, p. 19, Fig. 3,no. 1.
Recognized number of named columnal species: Devonian, Frasnian species
Devonian, Frasnian. Russia, Russian Platform

Wenjukowicrinus incisus(Yeltyschewa *in* Dubatolova, 1964). Stukalina, 1998, p. 19.
Anthinocrinus incisus Yeltyschewa *in* Dubatolova, 1964, p. 60, Pl. 8, fig. 1. Webster, 1973, p. 278. Stukalina, 1998, p. 19.
Devonian, Frasnian. Russia, Russian Platform, Kuznetsk Basin

**Wenjukowicrinus wenjukowi* (Yeltyschewa *in* Yeltyschewa and Stukalina, 1977). Stukalina, 1998, p. 19.
Anthinocrinus wenjukowi Yeltyschewa *in* Yeltyschewa and Stukalina, 1977, p. 214, Pl. 4, figs. 10-11. Gluchowski, 1981b, p. 38, Pl. 4, fig. 2. Webster, 1986, p. 328. Webster, 1988, p. 171. Gluchowski, 1993a, p. 48, Fig. 8, no. F. Stukalina, 1998, p. 19. Gluchowski, Casier, and Olempska, 2006, p. 699, Fig. 3, no. G.
Devonian, Frasnian; early middle Frasnian, Wietrznia Beds. Russia, Nova Zemlya; Poland

WOODOCRINUS de Koninck, 1854.
Mississippian. Europe; India

Woodocrinus sp. Hernández-Sampelayo, 1954, p. 25, Pl. 3, fig. 1c. Webster, 1973, p. 323.
Mississippian. Spain

Woodocrinus? sp. indt. Schmidt, W. E., 1934 = *Orocrinus grundensis*

Woodocrinus? sp. indet. Schmidt, W. E.,1934 (part) = *Orocrinus hercynicus*

Woodocrinus? sp. indet. Schmidt, W. E., 1934 (part) = *Orocrinus winterbergensis*

Woodocrinus? sp. sp. indet. [part] Schmidt, 1930 = *Orocrinus hercynicus*

Wurzelbildung von *Eucalyptocrinus* Dacqué, 1921, p. 392, Fig. 170, no. A.
Late Silurian, Waldron Shale. United States, Indiana

Wurzelstock von *?Melocrinites* sp. Hauser, 1999, Pl. 16, fig. 5. Hauser, 2002, Pl. 8, fig. 2.
Devonian, Frasnian (F2), Neuville Formation. Belgium, Ardenne

XENOCRINUS Miller, 1881.
Webster, 1993, p. 200. Donovan, 1995b, p. 117. Stukalina, 2000, p. 18.
XENOCRINUS (sensu lato) Stukalina, 1986, p. 87. Webster, 1993, p. 200.
Recognized number of named columnal species: 11 species. 9 Ordovician, 7 Katian,
2 Hirnantian; 2 Silurian, Llandoverian
Ordovician, Katian. Uzbekistan
Ordovician, Katian - Hirnantian. United States, United Kingdom, Kazakhstan /Silurian, Llandoverian. Uzbekistan, Russia

XENOCRINUS (sensu lato) Stukalina, 1986 = *XENOCRINUS*

Xenocrinus baeri (Meek), 1872. Donovan, 1986d, p. 43, Fig. 16, nos. A-B. Donovan and Veltkamp, 1993, p. 607, Fig. 6. Webster, 1993, p. 200. Donovan, Kallmeyer and Veltkamp, 1995, p. 310, Figs. 2, nos. E-F; 3, nos. A-D, F-G.
Ordovician, Katian (Ashgillian), Ladyburn Starfish Bed. Scotland
Ordovician, Katian (Richmondian), basal part of Liberty Formation. United States, Ohio, Indiana

Xenocrinus blaenycwmensis Donovan, 1986d, p. 45, Pl. 3, figs. 1, 7; Fig. 17, nos. A-B. Donovan, 1989e, p. 35, Fig. 16. Donovan, 1991c, p. 33, Fig. 16. Donovan and Veltkamp, 1993, p. 607, Fig. 8. Webster, 1993, p. 200.
Late Ordovician, Hirnantian (Ashgillian), *Meristina crassa* Sandstone. United Kingdom

Xenocrinus sp. cf. *X. blaenycwmensis* Donovan, 1986. Donovan, 1994, p. 77, Fig. 8, no. G. Donovan, 1995a, p. 14, Fig. 2, no. g.
Ordovician, Hirnantian, Glyn Formation. United Kingdom, Wales

Xenocrinus breviformis Brower, 1974. Donovan, 1986d, p. 44. Webster, 1993, p. 200.
Ordovician, Katian (Ashgillian), Ladyburn Starfish Bed. United Kingdom, Scotland

Xenocrinus? corruptus Stukalina, 1980 = *Tatjanicrinus corruptus*

Xenocrinus dentatus Stukalina, 1980c, p. 170, Pl. 32, figs. 2-3; Fig. 58, no. 1. Webster, 1986, p. 393.
Ordovician, Hirnantian (Ashgillian), Durben Horizon. Kazakhstan

Xenocrinus? explicatus Stukalina, 1980a, p. 94, Pl. 21, figs. 12-13; Fig. 15, no. 10. Stukalina, 1986, p. 87, Pl. 18, figs. 16-17; Fig. 24, no. 10. Webster, 1986, p. 394. Stukalina, 1988c, p. 35, Fig. 20, no. 1. Webster, 1993, p. 200.
Late Ordovician, Katian, layer with *Holorhynchus giganteus*. Eastern Kazakhstan

Xenocrinus? lobus Stukalina, 1980 = *Tatjanicrinus lobus*

Xenocrinus multiramus Ramsbottom, 1961. Donovan, 1986d, p. 44, Fig. 16, nos. F-H. Webster, 1993, p. 200.
Ordovician, Katian (Ashgillian), Ladyburn Starfish Bed. Scotland

Xenocrinus pencillus Miller, 1881. Donovan and Veltkamp, 1993, p. 607, Fig. 5.
Late Ordovician, Katian. United States, Ohio

Xenocrinus sp. aff. *X. pencillus* Miller, 1881. Donovan and Veltkamp, 1993, p. 609, Fig. 7. Donovan, 1994, p. 78, Fig. 11, nos. A-B. Donovan, 1995b, p. 117, Pl. 15, figs. 1-2.
Ordovician, Hirnantian, Wenallt Formation. United Kingdom, Wales

Xenocrinus sp. cf. *X. pencillus* Miller, 1881. Donovan, 1995a, p. 15, Fig. 3.
Late Ordovician, Hirnantian, Wenallt Formation. United Kingdom

Xenocrinus? *pentalobatus* Rakhmonov, 2008, p. 130, Pl. 108, figs. 22-24.
Silurian, Llandovery, Minkuchar Beds. Uzbekistan, Zeravshan Range

Xenocrinus? quadriangulatus Stukalina, 1978a, p. 157, Pl. 35, figs. 5-6. Webster, 1986, p. 394. Rakhmonov and Ghobadi Pour, 2008, p. 58, Pl. 107, figs. 8-10.
Ordovician, Ashgillian, Katian, Chashmankalon beds. Uzbekistan, Zeravshan Range

Xenocrinus quadrihamatus (Yeltyschewa, 1963). Milicina, 1985, p. 51, Pl. 2, figs. 1-6; Fig. 5. Webster, 1988, p. 217. Stukalina, 2000, p. 30, Fig. 6, no. 1.
Tetragonotetragonalis quadrihamatus Yeltyschewa, 1963. Milicina, 1985, p. 51. Webster, 1988, p. 217.
Note. *Tetragonotetragonalis quadrihamatus* was designated type species for *Dwortsowaecrinus* by Stukalina and Tujutjan, 1967, where I leave the species. GDW, 2003.
Silurian, Llandoverian, middle part of Persei Suite. Russia, Nova Zemlya

Xenocrinus? quadrilobatus Stukalina and Chints *in* Stukalina, 1980a, p. 93, Pl. 21, fig. 9; Fig. 15, no. 7. Donovan, 1986c, p. 422, Fig. 1, no. L. Stukalina, 1986, p. 87, Fig. 24, no. 7. Webster, 1986, p. 394. Stukalina, 1988c, p. 56, Pl. 1, fig. 23. Webster, 1993, p. 200.
Ordovician, Katian, Oandu Horizon. Central Estonia

Xenocrinus sp. aff. X. pencillus Miller, 1821. Donovan, 1994, p. 78, Fig. 11, nos. A-B.
Ordovician, Hirnantian, Wenallt Formation. United Kingdom, Wales

Xenocrinus sp. Donovan, 1986d, p. 46, Fig. 17, nos. C-D. Webster, 1993, p. 200.
Ordovician, Caradocian, Sholeshook Limestone Formation. United Kingdom

Xenoncrinus? sp. Donovan, 1986 = *Tetragonotetragonalis robustus*

Xenocrinus sp. Donovan, 1991 = *Tetragonotetragonalis girvanensis*

Xenocrinus? sp. Donovan and Harper, 1993 = *Tetragonotetragonalis robustus*

Xenocrinus? sp. Donovan and Veltkamp, 1993 = *Tetragonotetragonalis robustus*

Xenocrinus columnal articular facet Ausich, 1996b, p. 246, Fig. 17-4, no. 11.
Ordovician, unknown stratum. United States, Ohio

YELTYSCHEWAECRINUS Stukalina, 1979. **Cyclopentagonalis stella* Yeltyschewa, 1966.
Stukalina, 1979b, p. 94, Figs. 1, no. d-e. Stukalina, 1980c, p. 475, Fig. 1, nos. d-f. Stukalina, 1986, p. 64. Webster, 1986, p. 394. Webster, 1993, p. 200.
Recognized number of named columnal species: 1 Ordovician, Sandbian species
Ordovician, Sandbian. Estonia

**Yeltyschewaecrinus stella* (Yeltyschewa, 1966). Stukalina, 1979b, p. 95. Stukalina, 1980c, p. 476. Webster, 1986, p. 394.
Cyclopentagonalis stella Yeltyschewa, 1966, p. 62, Pl. 1, figs. 1-6. Webster, 1973, p. 287. Stukalina, 1979b, p. 95. Stukalina, 1980c, p. 476. Webster, 1986, p. 394.
Ordovician, Sandbian, Tallin - Idavere Horizons. Estonia

ZERAVASCHANOCRINUS Schewtschenko, 1966. **Z. barbulatus* Schewtschenko, 1966.
Schewtschenko, 1966, p. 153. Webster, 1973, p. 323. Jeffords *in* Moore and Teichert, 1978, p. T936. Stukalina, 1986, p. 78. Webster, 1988, p. 217. Webster, 1993, p. 200.
Recognized number of named columnal species: 8 Devonian species, 1 Early Devonian, uncertain, 1 Pragian, 6 Givetian
Devonian, Lochkovian - Pragian. France
Devonian, Givetian. Uzbekistan
Early Devonian uncertain. Russia

Zeravaschanocrinus apiculatus Schewtschenko, 1966, p. 158, Pl. 4, fig. 12; Fig. 28. Webster, 1973, p. 323.
Devonian, Givetian, Pandzhrut Horizon. Uzbekistan, Tien Shan Mountains

Zeravaschanocrinus arenosus Schewtschenko, 1966, p. 156, Pl. 4, fig. 11; Fig. 25. Webster, 1973, p. 323.
Devonian, Givetian, Pandzhrut Horizon. Uzbekistan, Tien Shan Mountains

Zeravaschanocrinus barbulatus Schewtschenko, 1966, p. 154, Pl. 4, figs. 6-7; Fig. 23. Webster, 1973, p. 323.
Devonian, Givetian, Pandzhrut Horizon. Uzbekistan, Tien Shan Mountains

Zeravaschanocrinus binarius Schewtschenko, 1966, p. 156, Pl. 4, figs. 4-5; Fig. 26. Webster, 1973, p. 323.
Devonian, Givetian, Pandzhrut Horizon. Uzbekistan, Tien Shan Mountains

Zeravaschanocrinus celticus Le Menn, 1980, p. 259, Pl. 36, figs. 6a-13; 1985, p. 113, Pl. 25, figs. 7-13. Webster, 1986, p. 394. Le Menn, 1987b, p. 819, Pl. 2, figs. 16-17. Webster, 1988, p. 217. Webster, 1993, p. 200.
Devonian, Lochkovian (late Gedinnian) –Pragian (early Siegenian), l'Armorican Shale and Limestone. France, Armorican Massif

Zeravaschanocrinus incubus Schewtschenko, 1966, p. 157, Pl. 4, fig. 17; Fig. 27. Webster, 1973, p. 323.
Devonian, Givetian, Pandzhrut Horizon. Uzbekistan, Tien Shan Mountains

Zeravaschanocrinus multipunctattus Yeltyschewa *in* Yeltyschewa and Stukalina, 1977, p. 215, Pl. 3, fig. 5. Webster, 1986, p. 394.
Early Devonian, Valnev Horizon. Russia, Nova Zemlya

Zeravaschanocrinus quinquelobus Schewtschenko, 1966, p. 155, Pl. 4, fig. 14; Fig. 24. Webster, 1973, p. 323.
Devonian, Givetian, Pandzhrut Horizon. Uzbekistan, Tien Shan Mountains

Zeravschanocrinus sp. Le Menn, 1980. Le Menn et al., 2002, p. 29.
Devonian, Pragian, lower part of Monte das Russianas Formation. Portugal

Zirren-Lobolith Haude, 1998, p. 221, Fig. 3, nos. A-C.