

Fam. 1. *Cyathophyllidae*.

Group A.—*Tesselati*: Compound vesiculo-stellate *Cyathophyllidae* composed of closely united corallites, forming mosaic-like, tessellated or asteroïdal groups.

*Cyathogonium*, E. J. C. (= tessellated forms of *Cyathophyllum*; also *Strabodes* and *Acervularia*), Sil., Dev., Carb.

*Heliogonium*, E. J. C. (= tessellated forms of *Heliophyllum*), Sil., Dev.

*Phillipsastræa*, E. & H. (including *Pachyphyllum*), Dev., Carb.

Group B.—*Arundinacei*: Vesiculo-stellate *Cyathophyllidae*, composed of reed-like or tubular corallites, either simple or in partially connected groups.

*Cannophyllum*, E. J. C. (= reed-like forms of *Cyathophyllum*), Dev., Carb.

*Diphyphyllum*, Lonsd. (including *Stylastreæa*), Sil., Carb.

*Eridophyllum*, E. & H., Sil., Dev.

Group C.—*Corniculati*: Simple vesiculo-stellate *Cyathophyllidae* of more or less conical or horn-like form.

*Cyathophyllum*, Goldf. (including *Dicophyllum* and *Campophyllum*), Sil., Dev., Carb.

*Heliophyllum* (including *Acanthophyllum*), Sil., Dev.

*Blotrophyllum*, Sil., Dev.

*Clisiophyllum*, Dana, Sil., Dev., Carb.

(*Pycnophyllum*, Linds., Sil. ?)

*Strephodes*, McCoy, Sil., Dev., Carb.

Fam. 2. *Lonsdalidae*.

Group A.—*Aggregati*: Compound forms of *Lonsdalidae*.

*Lonsdalia*, McCoy (including *Stylidophyllum*), Carb.

*Lithostrotion* (including *Koninckophyllum* in part, *Petalaxis*, *Stylaxis*, etc.), Carb.

Group B.—*Turbinati*: Simple, more or less turbinated or horn-like forms of *Lonsdalidae*:

*Azophyllum*, E. & H., Carb.

*Koninckophyllum* (?) Nich. (= simple forms of *Lithostrotion*), Carb.

Fam. 3. *Stauridae*:—Primary septa forming a rectangular cross:

Group A.—*Tesselati*: Compound tessellated forms of *Stauridae*:

*Stauria*, E. & H., Sil.

Group B.—*Turbinati*: Simple forms of *Stauridae*:

*Omphyma*, Raf., Sil.