# Atlas of Chrysophycean Cysts (Developments in Hydrobiology) (v. 1)

*K. Duff, Barbara A. Zeeb, John P. Smol*

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Chrysophycean algae are a diverse and often abundant group of primarily freshwater phytoplankton, characterized by the endogenous formation of siliceous cysts or stomatocysts (also called statospores or statocysts). Cyst morphology is highly variable, but believed to be species-specific.
Recently, cysts have received considerable attention from phycologists and especially paleoecologists who wish to use these indicators for assessments of environmental change. Nonetheless, attempts at using cysts have often been hampered by taxonomic problems.
This *Atlas* dispels some of the mystery surrounding stomatocysts, facilitating the accurate identification of individual cyst morphotypes, and encouraging other workers to begin using these important indicators. The terminology used to describe cysts is outlined in detail, followed by detailed descriptions of cyst morphotypes, following International Statospore Working Group (ISWG) guidelines, complemented by scanning electron and light micrographs, as well as line illustrations. Any available biogeographical and ecological information is also provided. These descriptions will further accelerate the continued effort to link cyst morphotypes to the algae that produce them.
For paleoecologists who wish to include stomatocysts in their studies, researchers working with living chrysophycean algae, and those interested in the morphology and ultrastructure of cyst morphotypes.

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