

A CONSIDERATION OF SOME *GOMPHONEIS* CLEVE SPECIES: CHANGES IN NOMENCLATRURAL STATUS, NEW SPECIES AND THOUGHTS ON BIOGEOGRAPHY

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In this poster we consider the taxonomy and nomenclatural status of several taxa we first interpreted as varieties within the *G. herculeana* and *G. eriense* species complexes. We treat these varieties here as separate species, and provide descriptions and nomenclatural changes for these taxa to reflect this new interpretation. A large, fossil species of *Gomphoneis*, depicted originally as *G. mammilla* in Schmidt's Atlas is considered distinct, and we present LM and SEM observations as well as formally describe this new species. Finally, we present observations on some *Gomphoneis* species in North America and in Asia that further strengthen Ehrenberg's proposal that the floras of western North America and Asia may be more similar to one another than the floras on either coast of North America.

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