

## **Ecology and morphology of the Caribbean Mlo-Pliocen** reef-coral *Siderastrea*

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Small paucispecific banks constructed by the massive scleractinian *Siderasirea* occur along the northern margins of hermatypic coral distribution during the Miocene and Pliocene epochs. Quantitative studies of environmental variation in one bank-builder, *S. mendenhaltt*, from sandstones north of the Gulf of California show that distinctively thin, closely spaced synapticulae form in turbid, nearshore habitats in the same manner as in modern *S. siderea* from Jamaica. Analysis of variation between *Siderasirea* species suggests that, like these nearshore populations, framework-building species have comparatively large corallite diameters; thin septa, columellae, and walls; and numerous synapticular rings. These results imply that skeletal configurations of Tertiary bank-building *Siderastrea may have been uniquely adapted for rapid colony growth in turbid, protected environments with abundant suspended organic material*.

**Key words:** Corals, Scleractinia, environmental variation, multivariate analysis, Caribbean, Cenozoic.

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