

Milankovitch Modification of Lacustrine Ecosystem Development

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Abstract: To isolate the effects of several biotic innovations through the Phanerozoic, I propose to examine the molecular-level $\delta^{13}\text{C}_{\text{org}}$ records and fossil fish communities of one climatic precession driven lake level cycle in lacustrine sequences representing very similar overall environments. Sampled strata will be Middle Devonian, Early Mississippian, Early Jurassic, Eocene, and Pliocene in age.