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## MILANKOVITCH ORBITAL CYCLICITY

DISCUSSION – MONDAY, 9/17/01  
SUMMARY DUE – TUESDAY, 9/18/01

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### *READINGS FOR EVERYONE*

Pillans, B., Chappell, J., and Naish, T.R., 1998, A review of the Milankovitch climatic beat: template for Plio-Pleistocene sea-level changes and sequence stratigraphy: *Sedimentary Geology*, v. 122, p. 5-21. (*PDF*)

### *INDIVIDUAL READINGS*

Hays, J.D., Imbrie, J., and Shackleton, N.J., 1976, Variations in the Earth's orbit: pacemaker of the ice ages: *Science*, v. 194, p. 1121-1132.

Berger, A., Loutre, M.F., and Laskar, J., 1992, Stability of the astronomical frequencies over Earth's history for paleoclimate studies: *Science*, v. 255, p. 560-566.

Osleger, D., and Read, J.F., 1991, Relation of eustasy to stacking patterns of meter-scale carbonate cycles, late Cambrian, U.S.A.: *Journal of Sedimentary Petrology*, v. 61, p. 1225-1252.

Strasser, A., Pittet, B., Hillgärtner, H., and Pasquier, J.-B., 1999, Depositional sequences in shallow carbonate-dominated sedimentary systems: concepts for high-resolution analysis: *Sedimentary Geology*, v. 128, p. 201-221. (*PDF*)

Drummond, C.N., and Wilkinson, B.H., 1993, Carbonate cycle stacking patterns and hierarchies of orbitally forced eustatic sealevel change: *Journal of Sedimentary Petrology*, v. 63, p. 369-377.

Matthews, R.K., and Frolich, C., 1991, Orbital forcing of low frequency glacioeustasy: *Journal of Geophysical Research*, V. 96 (B4), P. 6797-6803.

### *COMPILATIONS AND OTHER SOURCES FOR EUSTASY AND MILANKOVITCH-RELATED INFORMATION*

Dott, J., R.H. (*ed.*), 1992, Eustasy: the historical ups and downs of a major geological concept: *Geological Society of America, Memoir*, v. 180, 111 p.

Berger, A., Imbrie, J., Hays, J., Kukla, G., and Saltzman, B. (*eds.*), 1984, Milankovitch and climate: understanding the response to astronomical forcing: *NATO ASI Series D*, 895 p.

DeBoer, P.L., and Smith, D.G. (*eds.*), 1994, Orbital forcing and cyclic sequences: *International Association of Sedimentologists, Special Publication*, v. 19, 559 p.

House, M.R., and Gale, A.S. (*eds.*), 1995, Orbital forcing timescales and cyclostratigraphy: *Geological Society of London, Special Publication*, v. 85, 210 p.

Fischer, A.G., 1986, Climatic rhythms recorded in strata: *Annual Reviews of Earth and Planetary Science*, v. 14, p. 351-376.

Mitchum, Jr., R.M., and Van Wagoner, J.C., 1991, High-frequency sequences and their stacking patterns: sequence stratigraphic evidence for high-frequency eustatic patterns: *Sedimentary Geology*, v. 70, p. 131-160.

Kominz, M.A., and Bond, G.C., 1990, A new method for testing periodicity in cyclic sediments: applications to the Newark Supergroup: *Earth and Planetary Science Letters*, v. 98, p. 233-244.

Osleger, D., and Read, J.F., 1993, Comparative analysis of methods used to define eustatic variation in outcrop: Late Cambrian interbasinal sequence development: *American Journal of Science*, v. 193, p. 157-216.