
TECTONIC INFLUENCES ON THE GENERATION OF STRATIGRAPHIC SEQUENCES

DISCUSSION – MONDAY, 10/1/01
SUMMARY DUE – TUESDAY, 10/2/01

READINGS FOR EVERYONE

Embry, A.F., 1990, A tectonic origin for third-order depositional sequences in extensional basins – implications for basin modeling: in T.A. Cross (*ed.*), *Quantitative Dynamic Stratigraphy*, Prentice-Hall, Englewood Cliffs, NJ, p. 491-501.

INDIVIDUAL READINGS

Quinlan, G.M., and Beaumont, C., 1984, Appalachian thrusting, lithospheric flexure, and the Paleozoic stratigraphy of the eastern interior of North America: *Canadian Journal of Earth Sciences*, v. 21, p. 973-996.

Karner, G.D., 1986, Effects of lithospheric in-plane stress on sedimentary basin stratigraphy: *Tectonics*, v. 5, p. 573-588.

Watts, A.B., 1989, Lithospheric flexure due to prograding sediment loads: implications for the origin of offlap/onlap patterns in sedimentary basins: *Basin Research*, v. 2, p. 133-144.

Burgess, P.M., and Gurnis, M., 1995, Mechanisms for the formation of cratonic stratigraphic sequences: *Earth and Planetary Science Letters*, v. 136, p. 647-663. (*PDF*)

SOME ADDITIONAL REFERENCES REGARDING TECTONICS AND RELATIVE SEA LEVEL

Bond, G., 1978, Speculations on real sea-level changes and vertical motions of continents at selected times in the Cretaceous and Tertiary Periods: *Geology*, c. 6, P. 247-250.

Cloetingh, S. McQueen, H., and Lambeck, K., 1984, On a tectonic mechanism for regional sea-level variation: *Earth and Planetary Science Letters*, v. 75, p. 157-166.

Cloetingh, S., and Kooi, H., 1990, Intraplate stresses: a new perspective on QDS and Vail's third-order cycles: in T.A. Cross (*ed.*), *Quantitative Dynamic Stratigraphy*, Prentice Hall, Englewood Cliffs, NJ, p. 127-148.

Gurnis, M., 1992, Long-term controls on eustatic and epeirogenic motions by mantle convection: *GSA Today*, v. 2, p. 147-157.

Peper, T., Beekman, F., and Cloetingh, S., 1992, Consequences of thrusting and intraplate stress fluctuations for vertical motion in foreland basins and peripheral areas: *Geophysical Journal International*, v. 111, p. 104-126.

Peper, T., 1994, Tectonic and eustatic control on Albian shallowing (Viking and Paddy Formations) in the Western Canada foreland basin: *GSA Bulletin*, v. 106, p. 253-264.

Waschbusch, P.J., and Royden, L.H., 1992, Episodicity in foredeep basins: *Geology*, V. 20, p. 915-918.