

More references on modeling of siliciclastic processes and stratigraphy

Angevine, C. L., Heller, P. L. & Paola, C. (Ed.) (1990) Quantitative Sedimentary Basin Modeling. American Association of Petroleum Geologists, Continuing Education Course Note Series 32, 133 pp.

Ashworth, P. J., Best, J. L., Peakall, J. & Lorsong, J. A. (1999) The influence of aggradation rate on braided alluvial architecture: field study and physical scale-modelling of the Ashburton River gravels, Canterbury Plains, New Zealand. In: , International Association of Sedimentologists Special Publication, 28, 333-346.

Beerbower, J. R. (1964) Cyclothem and cyclic depositional mechanisms in alluvial plain sedimentation. Kansas Geological Survey Bulletin, 169, p. 31-42.

Begin, Z. B., Meyer, D. F. & Schumm, S. S. (1981) Development of longitudinal profiles of alluvial channels in response to base-level lowering. Earth Surface Processes and Landforms, 6, 49-68.

Bridge, J. S. & Bennett, S. J. (1992) A model for the entrainment and transport of sediment grains of mixed sizes, shapes, and densities. Water Resources Research, 28, p. 337-363.

Bridge, J. S. & Leeder, M. R. (1979) A simulation model of alluvial stratigraphy. Sedimentology, 26, p. 617-644.

Bridge, J. S. & Mackey, S. D. (1993a) A revised alluvial stratigraphy model. In: Alluvial Sedimentation (Ed. by M. Marzo and C. Puigdefabregas), International Association of Sedimentologists Special. Publication, 17, p. 319-336.

Bridge, J. S. & Mackey, S. D. (1993b) A theoretical study of fluvial sandstone body dimensions. In: The Geological Modelling of Hydrocarbon Reservoirs and Outcrop Analogues (Ed. by S. S. Flint and I. D. Bryant), International Association of Sedimentologists Special Publication, 15, p. 213-236.

Burgess, P. M. & Allen, P. A. (1996) A forward-modelling analysis of the controls on sequence stratigraphic geometries. In: Sequence Stratigraphy in British Geology (Ed. by S. P. Hesselbo and D. N. Parkinson), Geological Society of London Special Publication, 103, 9-24.

Cant, D. J. (1989) Simple equations of sedimentation: applications to sequence stratigraphy. Basin Research, 2, 73-81.

Cant, D. J. (1991) Geometric modelling of facies migration: theoretical development of facies successions and local unconformities. Basin Research, 3, 51-62.

Carey, J. S., Swift, D. J. P., Steckler, M., Reed, C. W. & Niedoroda, A.(in press) High resolution sequence stratigraphic modelling: effects of sedimentation processes. In: Numerical Experiments in Stratigraphy (Ed. by J. Harbaugh, L. Watney, G. Rankey, R. Slingerland, R. Goldstein and E. Franseen), SEPM Special Publication, 62

Cui, Y., Parker, G. & Paola, C. (1996) Numerical simulation of aggradation and downstream fining. *Journal of Hydraulic Research*, 34(2), 185-204.

Driscoll, N. W. & Karner, G. D. (1999) Three-dimensional quantitative modeling of clinoform development. *Marine Geology*, 154, 383-398.

Hoey, T. B. & Ferguson, R. (1994) Numerical simulation of downstream fining by selective transport in gravel bed rivers: Model development and illustration. *Water Resources Research*, 30, 2251-2260.

Jervey, M. T. (1988) Quantitative geological modeling of siliciclastic rock sequences and their seismic expression. In: Sea-level Changes-An Integrated Approach (Ed. by C. K. Wilgus, B. S. Hastings, H. W. Posamentier, J. Van Wagoner, C. A. Ross and C. G. S. C. Kendall), SEPM Special Publication, 42, 47-69.

Kaufman, P., Grotzinger, J. P. & McCormick, D. S. (1991) Depth-dependent diffusion algorithm for simulation of sedimentation in shallow marine depositional systems. In: Sedimentary modeling: computer simulations and methods for improved parameter definition (Ed. by E. K. Franseen, W. L. Watney, C. G. S. C. Kendall and W. Ross), Kansas Geological Survey Bulletin, 233, 489-508.

Koss, J. E., Ethridge, F. G. & Schumm, S. A. (1994) An experimental study of the effects of base-level change on fluvial, coastal plain and shelf systems. *Journal of Sedimentary Research*, B64, 90-98.

Leeder, M. R. (1978) A quantitative stratigraphic model for alluvium, with special reference to channel deposit density and interconnectedness. In: Fluvial Sedimentology (Ed. by A. D. Miall), Canadian Society Petroleum Geologists Memoir, 5, 587-596.

Mackey, S. D. & Bridge, J. S. (1995) Three-dimensional model of alluvial stratigraphy: theory and application. *Journal of Sedimentary Research*, B65, 7-31.

Niedoroda, A. M., Reed, C. W., Swift, D. J. P., Arata, H. & Hoyanagi, K. (1995) Modeling shore-normal large-scale coastal evolution. *Marine Geology*, 126, 181-199. Nittrouer, C. A. (1999) STRATAFORM: overview of its design and synthesis of its results. *Marine Geology*, 154, 3-12.

Nummedal, D., Riley, G. W. & Templet, P. L. (1993) High-resolution sequence architecture: a chronostratigraphic model based on equilibrium profile studies. In: Sequence Stratigraphy and Facies Associations (Ed. by H. W. Posamentier, C. P.

Summerhayes, B. U. Haq and G. P. Allen), International Association of Sedimentologists Special Publication, 18, 55-68.

Paola, C. (1990) A simple basin-filling model for coarse-grained alluvial systems. In: Quantitative Dynamic Stratigraphy (Ed. by T. A. Cross), pp.363-374. Prentice-Hall, Englewood Cliffs, New Jersey.

Pelletier, J. D. & Turcotte, D. L. (1997) Synthetic stratigraphy with a stochastic diffusion model of sedimentation. *Journal of Sedimentary Research*, 67, 1060-1067.

Perlmutter, M. A. & Matthews, M. D. (1990) Global cyclostratigraphy - a model. In: Quantitative Dynamic Stratigraphy (Ed. by T. A. Cross), pp. 233-260. Prentice-Hall, Englewood Cliffs, New Jersey.

Perlmutter, M. A., Radovich, B. J., Matthews, M. D. & Kendall, C. G. S.C. (1998) The impact of high-frequency sedimentation cycles on stratigraphic interpretation. In: Sequence Stratigraphy - Concepts and Applications (Ed. by F. M. Gradstein, K. O. Sandvik and N. J. Milton), Norwegian Petroleum Society Special Publication, 8, 141-170.

Pirmez, C., Pratson, L. F. & Steckler, M. S. (1998) Clinoform development by advection-diffusion of suspended sediment: modeling and comparison with natural systems. *Journal of Geophysical Research*, 103, 24141-24157.

Ross, W. C., Watts, D. E. & May, J. A. (1995) Insights from stratigraphic modelling: Mud-limited versus sand-limited depositional systems. *AAPG Bulletin*, 79, 231-258.

Shuster, M. W. & Aigner, T. (1994) Two-dimensional synthetic seismic and log cross sections from stratigraphic forward models. *AAPG Bulletin*, 78, 409-431.

Smith, J. D. & McLean, S. R. (1977) Spatially averaged flow over a wavy surface. *Journal of Geophysical Research*, 82, 1735-1746. Snow, R. S. & Slingerland, R. L. (1987) Mathematical modeling of graded river profiles. *Journal of Geology*, 95, 15-33.

Strobel, J., Cannon, R., Kendall, C. G. S. C., Biswas, G. & Bezdek, J. (1989) Interactive (SEDPAK) simulation of clastic and carbonate sediments in shelf to basin settings. *Computers & Geosciences*, 15, 1279-1290.

Swenson, J. B., Voller, V., Paola, C. & Parker, G. (in press) Modeling the stratigraphic response of fan-deltas to base-level forcing as a generalized Stefan problem. *European Journal of Applied Mechanics*

ter Voorde, M., Ravnås, R., Færseth, R. & Cloetingh, S. (1997) Tectonic modelling of the Middle Jurassic synrift stratigraphy in the Oseberg-Brage area, northern Viking Graben. *Basin Research*, 9, 133-150.

Tipper, J. C. (1992) Landforms developing and basins filling: three-dimensional simulation of erosion, sediment transport, and deposition. In: Computer Graphics in Geology (Ed. by R. Pflug and J. W. Harbaugh), pp. 155-170. Springer-Verlag, Berlin. Lecture Notes in Earth Sciences, Vol. 41.

Tucker, G. E. & Slingerland, R. L. (1994) Erosional dynamics, flexural isostasy, and long-lived escarpments: a numerical modeling study. *Journal of Geophysical Research*, 99, 12229-12243.

Turcotte, D. L. & Schubert, G. (1982) *Geodynamics, Applications of Continuum Physics to Geological Problems*. John Wiley & Sons, New York, 435 pp.

Werner, B. T. & Hallet, B. (1993) Numerical simulation of self-organized stripes. *Nature*, 361, 142-145.

Tetzlaff, D. M. (1990) Limits to the predictive ability of dynamic models that simulate clastic sedimentation. In: *Quantitative Dynamic Stratigraphy* (Ed. by T. A. Cross), pp. 55-65. Prentice-Hall, Englewood Cliffs, New Jersey.

Tetzlaff, D. M. & Harbaugh, J. W. (1989) *Simulating Clastic Sedimentation*. Van Nostrand Reinhold, New York, 196 pp.

Tucker, G. E. & Slingerland, R. L. (1994) Erosional dynamics, flexural isostasy, and long-lived escarpments: a numerical modeling study. *Journal of Geophysical Research*, 99, 12229-12243.

Turcotte, D. L. & Schubert, G. (1982) *Geodynamics, Applications of Continuum Physics to Geological Problems*. John Wiley & Sons, New York, 435 pp.

van Niekerk, A., Vogel, K. R., Slingerland, R. L. & Bridge, J. S. (1992) Routing of heterogeneous sediments over movable bed: model development. *Journal of Hydraulic Engineering*, 118, 246-262.

Werner, B. T. & Hallet, B. (1993) Numerical simulation of self-organized stripes. *Nature*, 361, 142-145.

Willgoose, G., Bras, R. L. & Rodriguez-Iturbe, I. (1991) A coupled channel network growth and hillslope evolution model. I. Theory. *Water Resources Research*, 27, 1671-1684.

Wood, L. J., Ethridge, F. G. & Schumm, S. A. (1993) The effects of rate of base-level fluctuation on coastal-plain, shelf and slope depositional systems; an experimental approach. In: *Sequence stratigraphy and facies associations* (Ed. by H. W. Posamentier, C. P. Summerhayes, B. U. Haq and G. P. Allen), International Association of Sedimentologists Special Publication, 18, 43-53.

Wood, L. J., Ethridge, F. G. & Schumm, S. A. (1994) An experimental study of the influence of subaqueous shelf angles on coastal plain and shelf deposits. In: Siliciclastic Sequence Stratigraphy: Recent Developments and Applications (Ed. by P. Weimer and H. Posamentier), AAPG Memoir, 58, 381-391.

Zhang, H. & Kahawita, R. (1987) Nonlinear model for aggradation in alluvial channels. Journal of Hydraulic Engineering, 113, 353-369.