



COMPUTER SEDIMENTARY SIMULATION MODELS SEQUENCE STRATIGRAPHY

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 University of South Carolina, Columbia, S.C.

A basic challenge in analyzing sedimentary basins is to determine three-dimensional stratigraphy from a limited set of observations. The StratMod Group at the University of South Carolina has developed a software package called Sedpak that uses an empirical approach for stratigraphic prediction via graphic simulation.

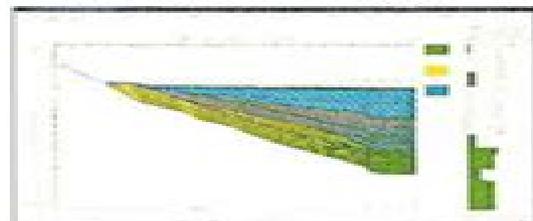
Sedpak has been used by oil companies to analyze the stratigraphic suc-

cessions of basins in many regions of the world. It enables large amounts of data to be handled quickly and complex outcomes to be stored efficiently. Moreover, the assumptions driving the simulation can be systematically

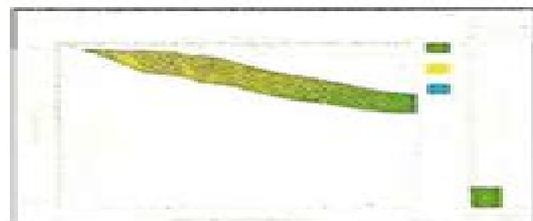
assessed in terms of validity and completeness.

Sedpak has a strong sequence-stratigraphic flavor, resembling in that sense the simulation procedures of Lawrence et al.¹ Following the ap-

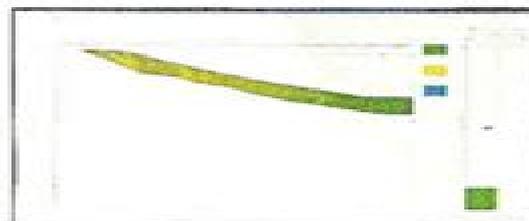
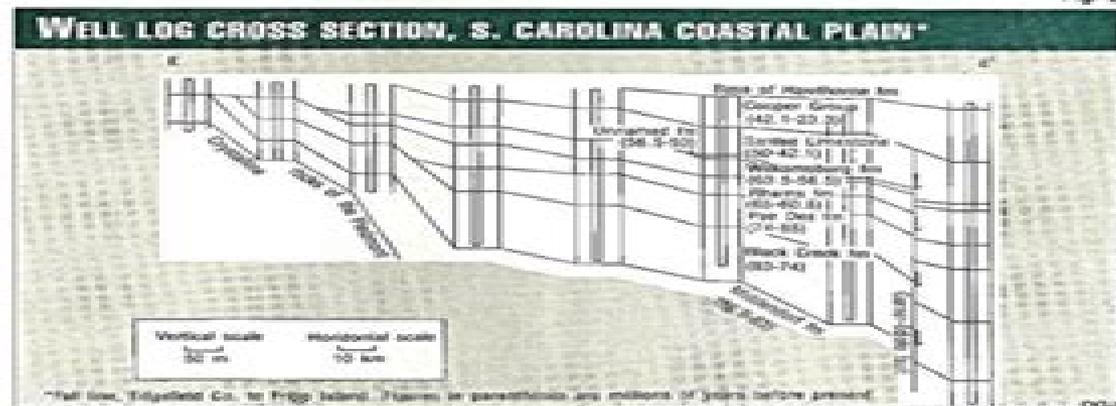
Fig. 2



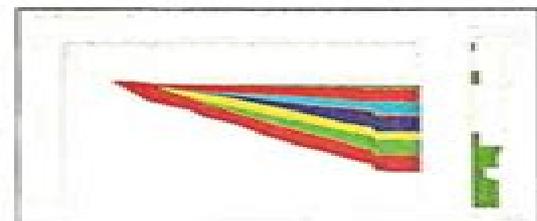
Output (in lithology mode) for South Carolina Coastal Plain. Updip concentration of sand (yellow) and downdip concentration of shale (green) match well log cross section in Fig. 2 (Fig. 1).



Output from South Carolina Coastal Plain simulation at the time step before specification of an erosional plane, above which all sediment was to be removed (Fig. 3).



Output from South Carolina Coastal Plain simulation at the time step after the erosional event specified in Fig. 3 (Fig. 4).



Output from South Carolina Coastal Plain simulation in sequence mode. Each color defines a sequence; sequence boundaries are defined by the user (Fig. 5).

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