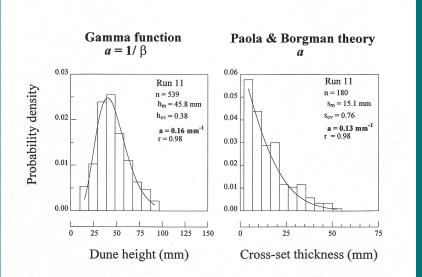
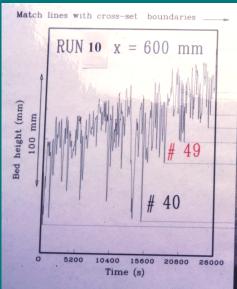
Modeling short-term hydrosedimentary processes and the preservation of river dune deposits

Suzanne Leclair

Montréal, QC, CANADA suzanneleclair@sympatico.ca



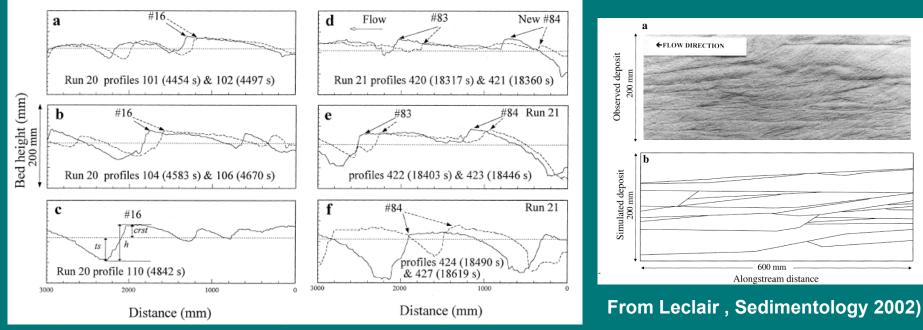




Theory

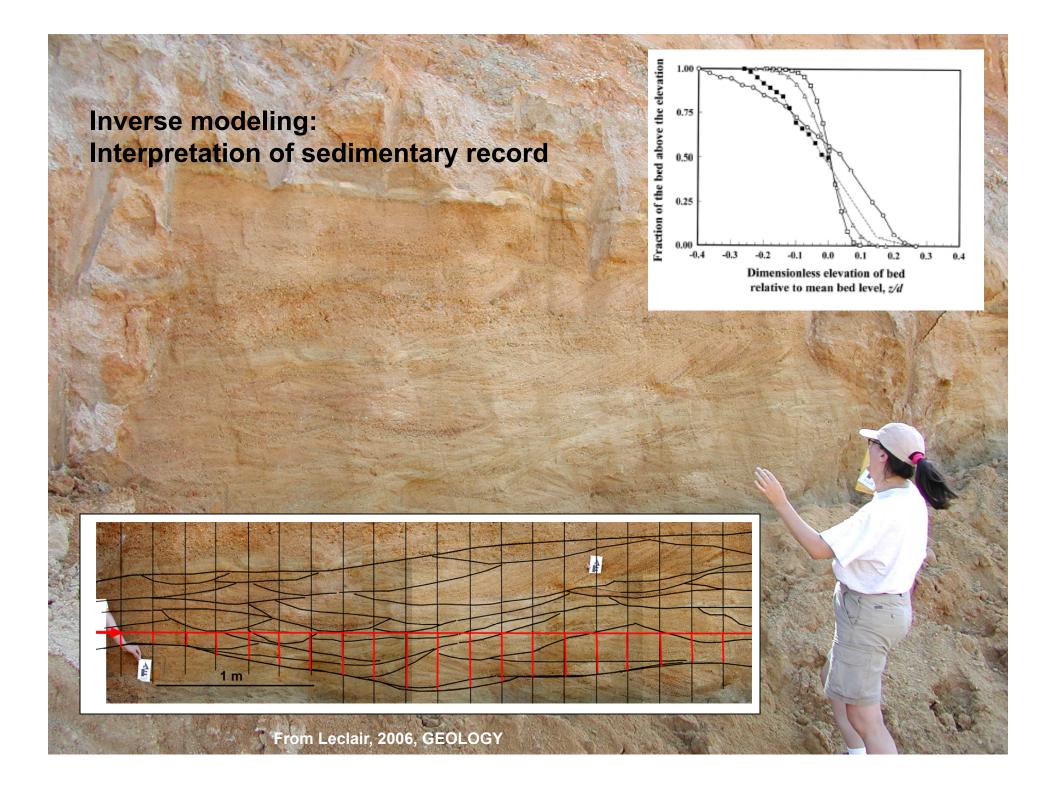
Experiment

Modeled distributions of dune height and trough elevation based on observed dune migrating behaviour (without sediment vertical sorting—and hence no constraint on dune scouring)



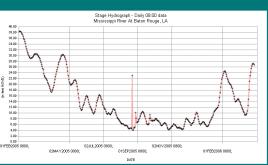
Observations

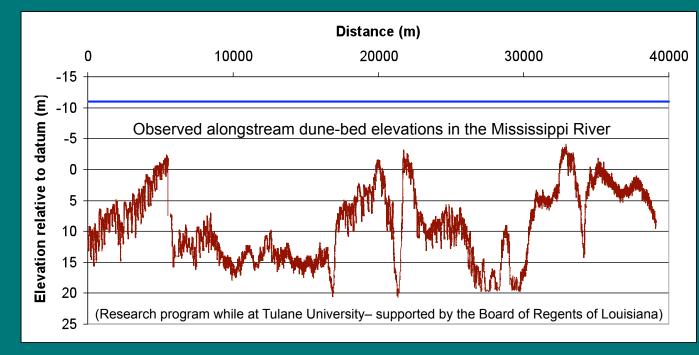
Results vs Simulation model



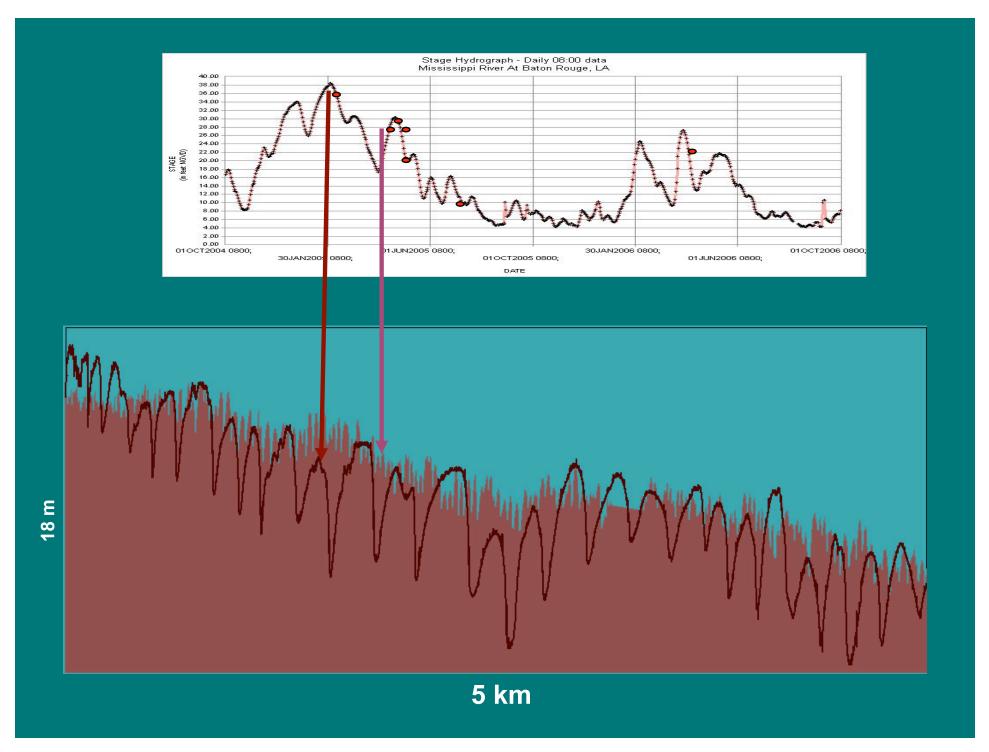


Modeling the thickness of preserved deposit from various hydrographical events at the channel scale









Predicting mean thickness of channel deposit --or erosion

