Field Seminar

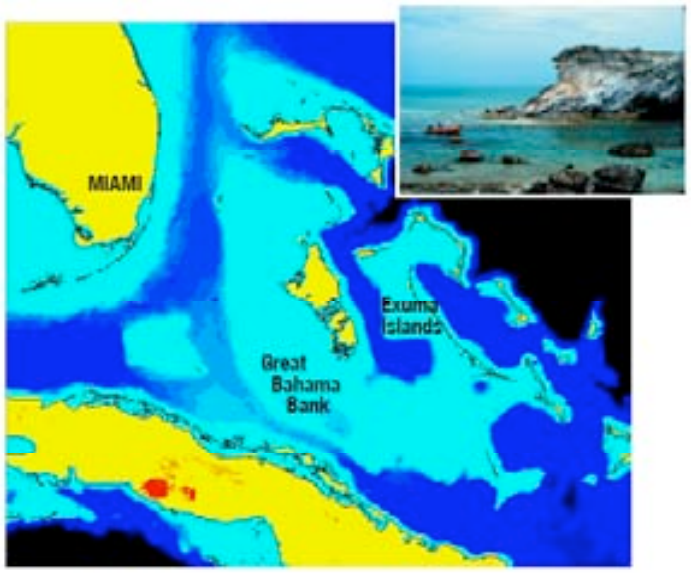
Heterogeneity of Bank-Margin Ooid Sands
Depositional Models and Reservoir Analogs
Exuma, Bahamas

Open seminar for Industrial Associates of the Comparative Sedimentology Laboratory, University of Miami

Leaders: Gregor P. Eberli, Donald F. McNeill and Paul M. (Mitch) Harris

Date: June 21-26, 2008

Location: Begins and ends in **Nassau, Bahamas**. Five days are spent on a chartered boat in the Exuma Islands, Bahamas. We will visit by boat 14 different settings illustrating the various environments along the windward margin.

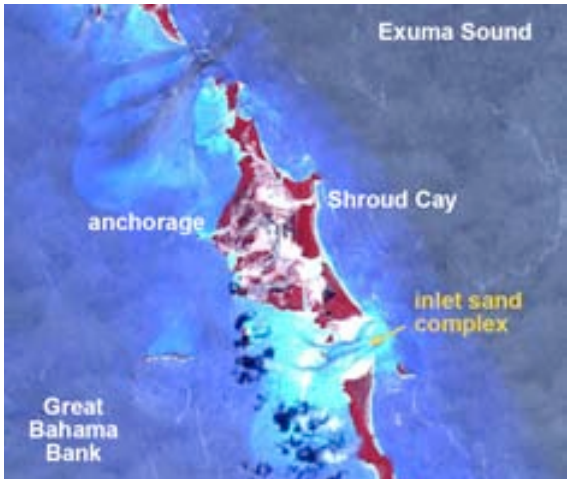


Objectives and Content

The Exuma island chain is an ideal place to study the facies relationships and heterogeneity of a grainstone dominated, high-energy carbonate platform margin. The main objectives of the seminar are a) to illustrate the dimension of the large-scale exploration-scale facies belts of such a margin, and b) to examine the smaller, reservoir-scale heterogeneity within these facies belts.

To reach these goals we will examine the vertical-lateral juxtaposition of bank-margin lithofacies and the early diagenesis in these facies. In particular, we will study the accumulation of sand in tidal channel and tidal deltas and examine the various sub-environments with differing grain-composition and sedimentary structures. Karstified eolian islands dunes and Pleistocene outcrops will illustrate the influence of meteoric diagenesis on the bank margin deposits. The islands will also serve as overview points for viewing the dimensions of the various environments. Reefs and modern stromatolites in normal, open marine environment and subtidal tidal passes will demonstrate the reef building communities in these high-energy environments. In short, the seminar will document the exploration-scale facies relationships as well as reservoir-scale features in an ooid complex, the spatial distribution of sand sub-environments, disconformities, sub-aerial exposure horizons, and the internal structure, cementation, porosity of eolianites.

Grainy ooid tidal channel of Shroud Cay



Shroud Cay ooid tidal complex

Tuition: $3,500.-, All ground transportation, boat, meals, course notes with virtual field seminar CD are included in the tuition.

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