

2. Field Seminar

Comparative
Sedimentology
Laboratory

HETEROGENEITY OF BANK-MARGIN OOID SANDS

Depositional Models and Reservoir Analogs

Exumas, Bahamas

June 27 – July 2, 2010

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

Location: Exuma Islands, Bahamas where facies relationships and heterogeneity of a grainstone dominated, high-energy carbonate platform margin are exposed. We will visit by boat 14 different settings illustrating the various environments along the windward margin. Begins and ends in **Nassau, Bahamas**.

Objectives:

- 1) **illustrate the dimension of the large-scale exploration-scale facies belts** of a windward margin, and
- 2) **examine the smaller, reservoir-scale heterogeneity** within these grainstone facies.

Who should attend: Exploration and production geoscientists and reservoir engineers working in (oolitic) grainstone reservoirs or on platform margin settings.

Seminar Content: The modern sediments combined with core material through the Pleistocene strata are used to illustrate the vertical-lateral

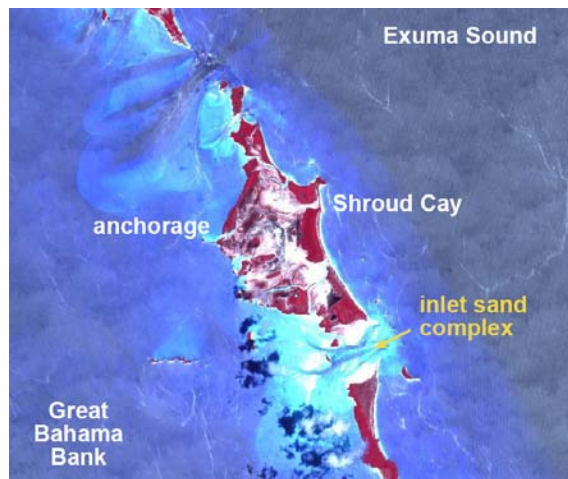
juxtaposition of bank-margin lithofacies and the early diagenesis in these facies. The modern environment displays the sedimentary products that are produced by the physical and biological processes along the bank margin. In particular, we will study the accumulation of sand in tidal channel and tidal 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. Corals and stromatolites in normal, open marine environments and tidal channels will demonstrate the reef building communities in these high-energy environments.

In short, the seminar will document the exploration-scale facies relationships and dimensions as well as reservoir-scale features in a high-energy platform margin including the spatial distribution of the sub-environments, disconformities, sub-aerial exposure horizons.

For the complete program visit: <http://www.cslnmiami.info/learning/fieldSeminars>



In tidal channel of Shroud Cay



Shroud Cay ooid tidal complex

Costs: \$3,500 - Includes all ground transportation, boat, meals, and course notes with virtual field seminar CD.

Contacts: Donald F. McNeill (305) 421 47 90 dmcneill@rsmas.miami.edu
Gregor P. Eberli (305) 421 46 78 geberli@rsmas.miami.edu

Registration: As soon as possible but no later than May 1, 2010 by contacting:

Karen Neher, kneher@rsmas.miami.edu (305) 421-4684
Comparative Sedimentology Laboratory
4600 Rickenbacker Causeway, Miami, FL 33149, USA