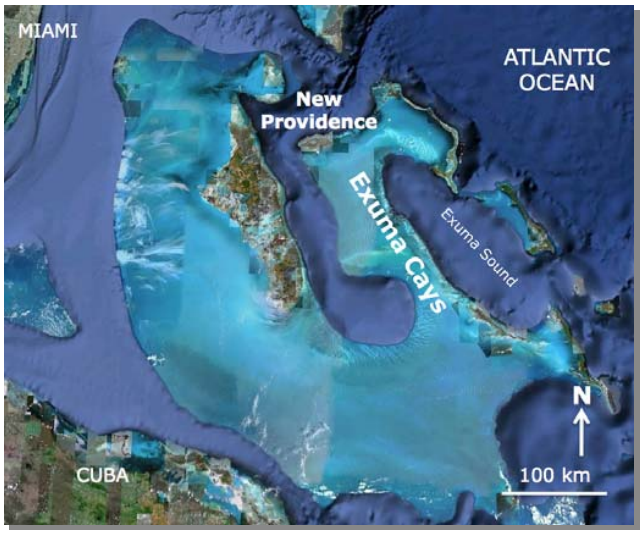


CSL
University of Miami

2015 Exumas Field Seminar

CSL – Center for Carbonate Research

OOID SANDS AND MICROBIALITES ALONG THE EXUMAS MARGIN

Depositional Models, Stratigraphic Framework and Reservoir Analogs

July 31 – August 5, 2015

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

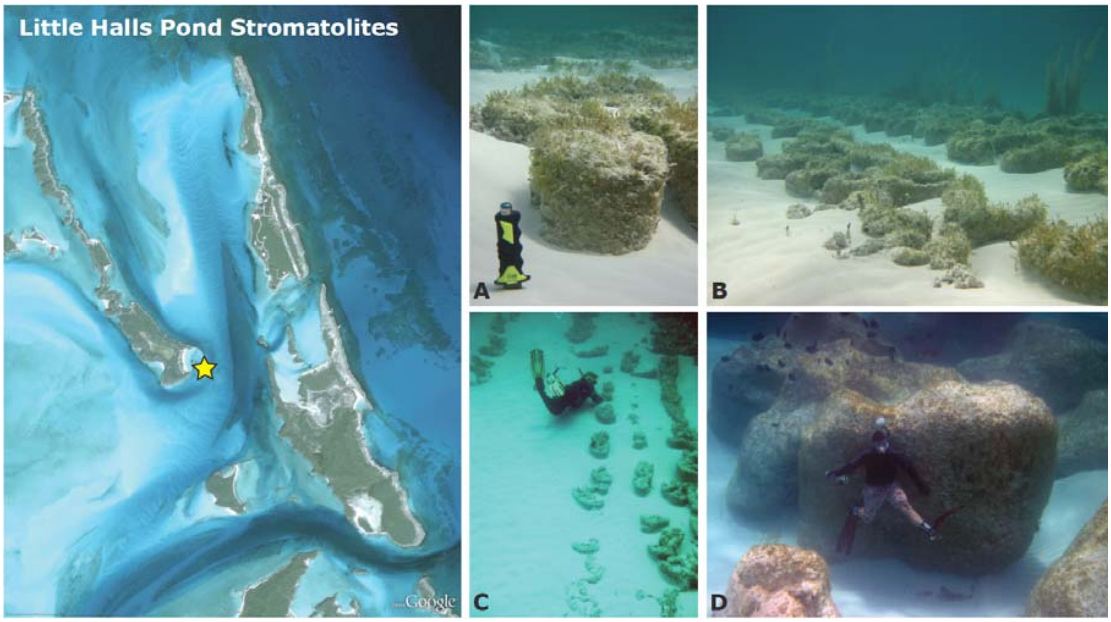
Location: The seminar begins and ends in **Nassau** on New Providence Island, **Bahamas**. Several field stops along the island chain of the Exumas are visited by boat along the carbonate platform margin that is dominated by ooid grainstone facies and the largest occurrence of modern normal marine stromatolites. We will show the dynamic development of these grainstone bodies and associated stromatolites during the Holocene sea-level rise and illustrate the heterogeneity in Pleistocene strata created by sea-level oscillations within the last interglacial highstand (MIS 5e).

Objectives:

1. Examine exploration-scale **facies belts of variable ooid and microbial deposits** along a windward margin.
2. Illustrate the dynamic **evolution of grainstone facies** during the Holocene transgression that imparts **reservoir-scale heterogeneity**.
3. Relate a **complex stratigraphic record of sea-level oscillations** to challenges in subsurface correlation.

Who should attend: Exploration and production geoscientists and reservoir engineers working in grainstone and microbial carbonate reservoirs and those exploring along platform margins.

Seminar Content: The seminar will illustrate the relationships and dimensions in an ooid-dominated, high-energy platform margin as well as the relationship of stromatolites and associated facies. This windward margin is a complicated arrangement of sedimentary bodies that are produced by physical and biological processes and influenced by Pleistocene and Holocene islands. In particular, we will focus on various sub-environments with differing grain-composition and different environments of stromatolite occurrence with various growth forms. Pleistocene island outcrops will illustrate the influence of meteoric diagenesis and also serve as overview points for viewing the dimensions of the various environments, further illustrating the heterogeneity of the margin.



Little Halls Pond tidal inlet with a variety of modern stromatolites. Photos by Kelly Jackson.

Costs: $4,700.-, Includes all ground transportation, lodging on boat, meals, and course notes with virtual field seminar in digital form.

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Donald F. McNeill (305) 421-4790

Registration: No later than **May 15, 2015**
Karen Neher, (305) 421-4684, kneher@rsmas.miami.edu

See also: http://www.cslmiami.info/learning/fieldSeminars