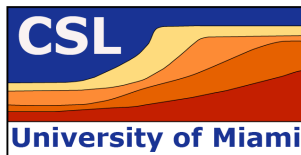


Field Seminar

Complex Stratigraphy of a windward platform margin – New Providence and Eleuthera Islands, Bahamas

Leaders:

Gregor P. Eberli, Peter K. Swart, and Paul M. (Mitch) Harris
CSL - Center for Carbonate Research



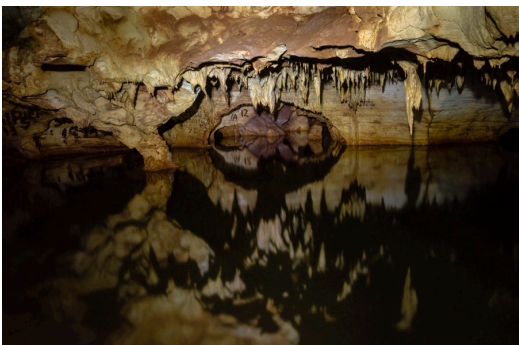
Glass Window
Grainstone Complexity



Schooners Cay
Modern Ooid Shoal



Cave
Speleothem Precipitation





SEMINAR CONTENT:

The six-day seminar examines the complex stratigraphy and diagenesis in platform margin grainstone successions around New Providence and Eleuthera Islands on the most windward margin of Great Bahama Bank.

The modern ooid shoals of the Schooner Cays are a very large tidal bar belt whose size and heterogeneity is largely driven by currents and their interaction with platform margin morphology. Sea-level fluctuations produce stacks of grainstone complexes along platform margins. On New Providence and Eleuthera

Islands, two vertically stacked shallowing-upward sequences of oolitic coastal deposits are exposed. Pleistocene sea-level fluctuations repeatedly exposed the platform top, forming numerous karst features. The size and dimensions of sinkholes, flank margin and horizontal caves are illustrated during the seminar. We visit a hypersaline lake where microbial processes lead to the formation of carbonates.

ITINERARY

Field seminar starts and ends in Nassau, Bahamas. The seminar can be tailored in length and focus but generally consists of the following program:

- Day 1: New Providence Island: The sedimentary record of the last interglacial MIS 5e at Clifton Pier and Serenity Outcrop
- Day 2: Modern Coral Reefs offshore New Providence Island.
- Day 3: Stacked Pleistocene grainstones along the windward margin of Eleuthera at Pine Outcrops, North Twin Coves, The Cliffs, Hatchet Bay Caves and Glass Window.
- Day 4: Modern ooid tidal bar belt are Schooners Cays: Facies and Geometries.
- Day 5: Platform Facies and Karst Features on Eleuthera
- Day 6: Return to Nassau

COSTS

~\$5500.- per person: The costs include accommodation, food, transportation in the Bahamas, guidebook, and snorkeling equipment.

Contacts: Gregor P. Eberli (305) 421-4678 geberli@rsmas.miami.edu

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