USGS St. Petersburg Coastal and Marine Science Center

"Core Repository" and Data Preservation

Studebaker Building – Resides on the Univ. of South Florida campus



* Space is a commodity

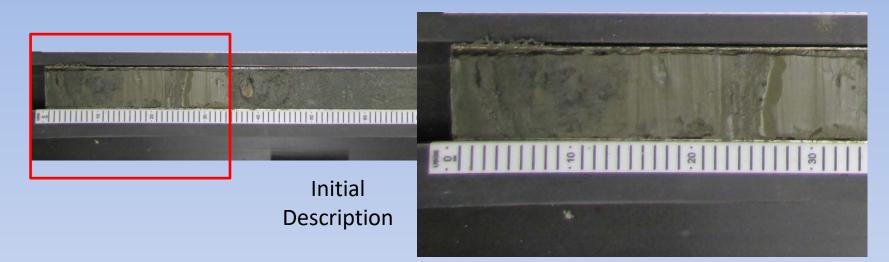




Cold storage container, similar to the one at our office



Current State of our Sediment Cores Without Refrigerated Storage

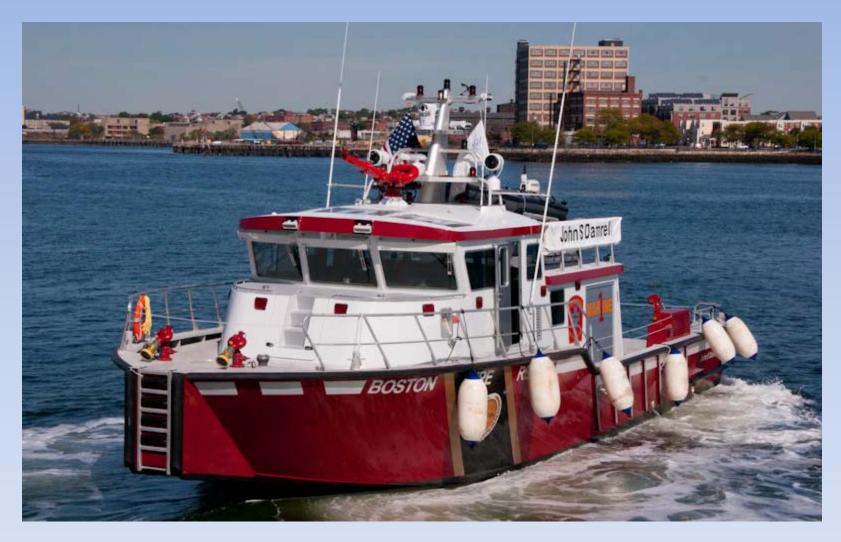






The R/V G.K. Gilbert





* Not an actual photo of the Gilbert

Coral Repository

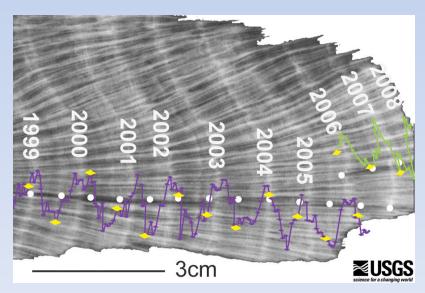




USGS scientist taking a core sample from a large Scleractinia coral



Computer driven triaxial micro-milling machine



(Strontium/Calcium) and isotopic (d¹⁸O) analyses







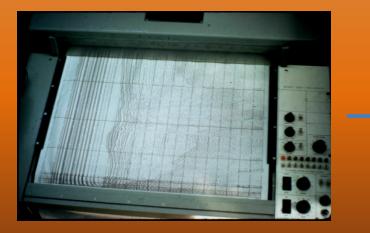
What we need...

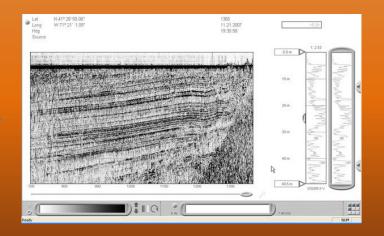
- A Dedicated Cold Storage Core Repository
- Modern Analytical Core Processing Equipment (Whole Core Logger)
- Cooperation with Local Universities to Conduct Marine Coring Operations

Data Recovery and Preservation

Conversion of antiquated analog geophysical data to usable digital data.

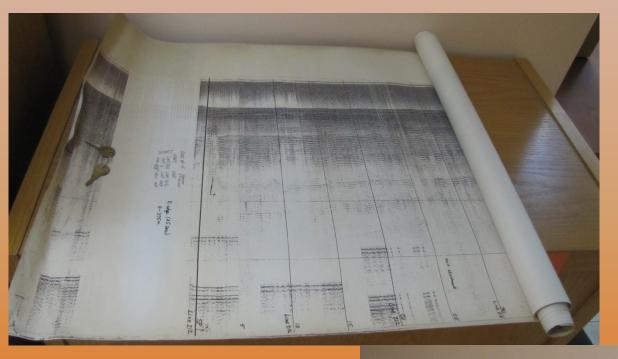
Funding for this phase of data recovery was provided from a grant issued by the NGGDP.





Seismic Archive Room





Seismic Rolls

Seismic Fan folds



Contex Wide Format Scanner



- Accommodates up to 36" wide media
- Max Resolution of 1200 dpi
- Unlimited Media Length

Affords a rapid conversion from paper to digital format

Supporting Documentation and Metadata

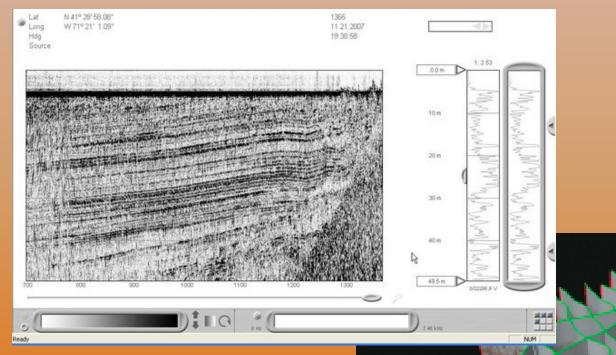
Ę)

ACADIANA 87-1 CHANDELEUR ISLANDS AREA SEISHIC CRUISE	
Vessel: R/V Acadiana, Louis	iana Universities Marine Consortium
Personnel:	
John R. Suter, Louislar Ron Boyd, Dalhousie Uni Jack Rindinger, United Ken Parolaki, United St C. L. Black, LUMCON Wayne Simoneaux, LUMCON	versity States Geological Survey ates Geological Survey
Area of Operation:	
Chandeleur Islands, Mis onshore and offshore	ssissippi Barriers,
Approximate Lat/Long:	30 00 N 30 30 N 89 15 W 88 00 W
	29 00 N 29 00 N 89 15 W 88 00 W
High Resolution Seismic Syst	tems in use:
ORE Geopulse (Boomer) Benthos 10 element hydi EPC 3200 Recorder, ORE ORE 5420A Power supply ORE 3.5 kHz Subbottom : Northstar 6000 LORAN M EPC Delay box	5210 Receiver
Date: Sunday June 14, 1987	
) (c) 6/13 R/V Acadiana at approximately 140 Biloxi late after	rived from LUMCON in Cocodrie at 0 6/13. Ken Farolski of USGS arrived noon 6/13.
Steve Anderson of Biloxi to assist could not make between Mandevill heavy rains delay it align to a start it signation to a start it signation to a start board know why this operation;	yd. J. Kindloper arrive in Blicki- the LGS who was scheduled to come to in the molification of the scheduler in the molification of the scheduler and blicking was and heavy rain is and blicking was a follows: the rightion scoreling terminal is very old infactor scoreling terminal is very old to be functioning to a this time- me equipment can't be purchased for slow it is a matter take for a data see not of warficient guality.

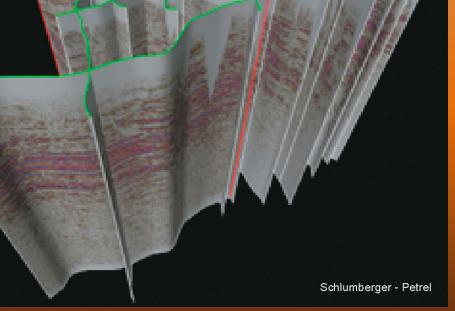


E

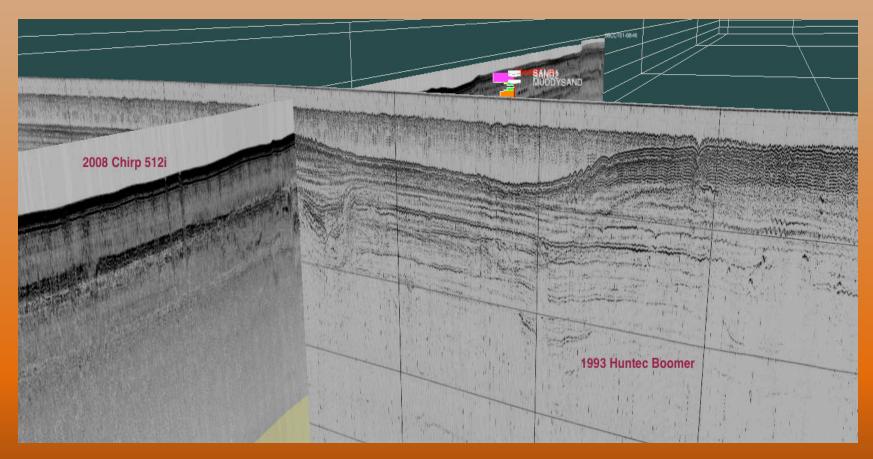
July 8 EST 6:30m CST 5:30 B: soon Hote July 8, 1991 CT 8:00 Boat 10:30 She



Conversion from paper to digital format allows us to use modern seismic investigative software



Usable Data!



Comparison of a "recently" collected seismic line, using today's standards of data collection, to the digitally recovered paper seismic line.

Summary

- Public can now access these data
- Saves time and money, instead of having to rerun the survey
- Data is organized and contains metadata

Questions, Comments?