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
What you see is what we have to work with for core storage.
Cold storage container, similar to the one at our office
Current State of our Sediment Cores Without Refrigerated Storage

Initial Description

One Year Later
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 ($d^{18}O$) 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
Conversion from paper to digital format allows us to use modern seismic investigative software.
Comparison of a “recently” collected seismic line, using today’s standards of data collection, to the digitally recovered paper seismic line.

Usable Data!
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?