

Marine Sediment Sampling Facility (MARSSAM) Annual Update

RVTEC 2021

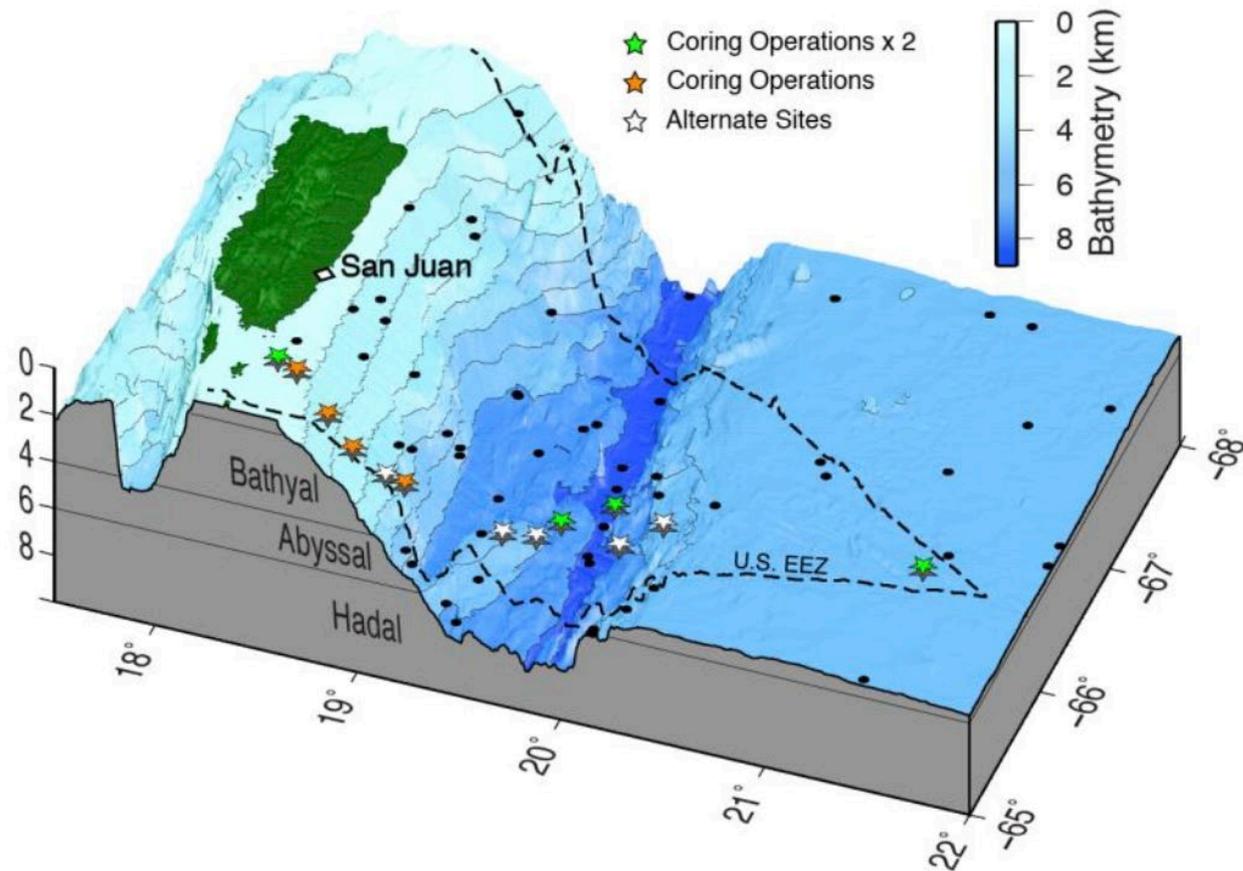


2021 Shipboard Activities

- *R/V Pelican (03/21) – multicoring supplies and consumables*
- *R/V Sikuliaq (05/21-06/21) - multicoring supplies and consumables*
- *R/V Point Sur (05/21) – vibracoring (BOEM contract)*
- *R/V Endeavor (08/21) – jumbo piston and large diameter gravity coring*
- *R/V Oceanus (09/21) – box coring (USACE contract)*
- *R/V Savannah (10/21) – multicoring supplies and consumables*
- *R/V Pelican (10/21-11/21) – jumbo piston and large diameter gravity coring*
- *R/V Armstrong (11/21) – RIC-5500 vibracoring training (WHOI ship time)*

Early 2022 Shipboard Activities

- Jan 2022 – Coring Puerto Rico trench from R/V Amstrong (P/I Steve D’Hondt)

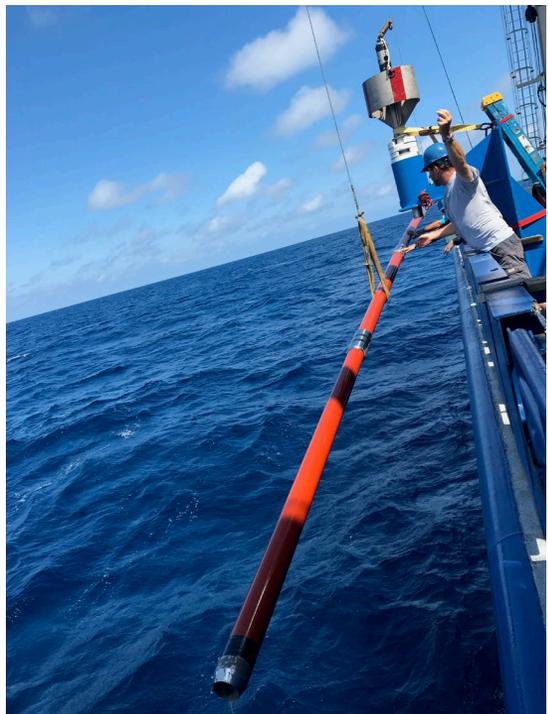
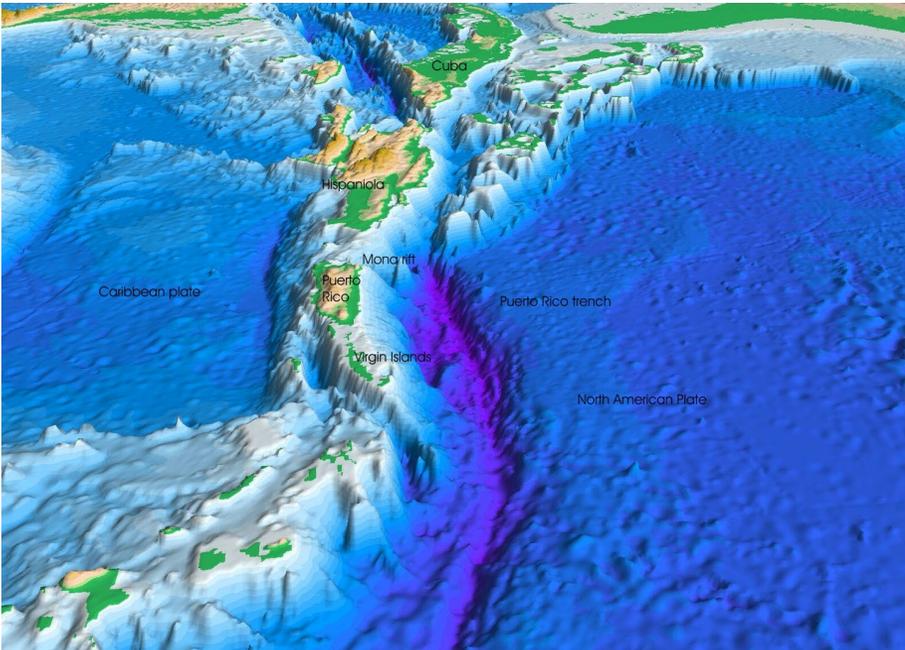


PR Trench Coring

Jumbo Piston Cores from deepest point of Atlantic Ocean: Puerto Rico Trench

Will use 'Astronaut' Piston Coring System aboard R/V Armstrong

Modified w/mechanical trigger due to extreme water depths and steep bathymetry



Breaking records

Scientists just dug the deepest ocean hole in history

By [Brandon Specktor](#) May 21, 2021

The team drilled a hole nearly 5 miles (8,000 m) below the Pacific Ocean's surface to study the region's earthquake history.



The research vessel Kaimei cruises the Pacific Ocean near the Japan Trench. (Image credit: JAMSTEC)

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New Inventory

- Have added Ocean Instruments RIC-4000 and RIC-5500 vibracoring systems to MARSSAM inventory
- Have resurrected old LUMCON Alpine vibracoring system



Next proposal: Geotek Seagoing CT-scanner

- Allows for shipboard evaluation of sedimentary structure, confirming material recovered is appropriate for science
- Much more precise understanding of depositional environment than possible from core description alone
- Developing plan to fit system in single van with MSCL physical properties track



Training and Outreach

Coring PI training scheduled aboard R/V Revelle in August 2022

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