

Extending data services beyond the US EEZ: GCOOS Experience

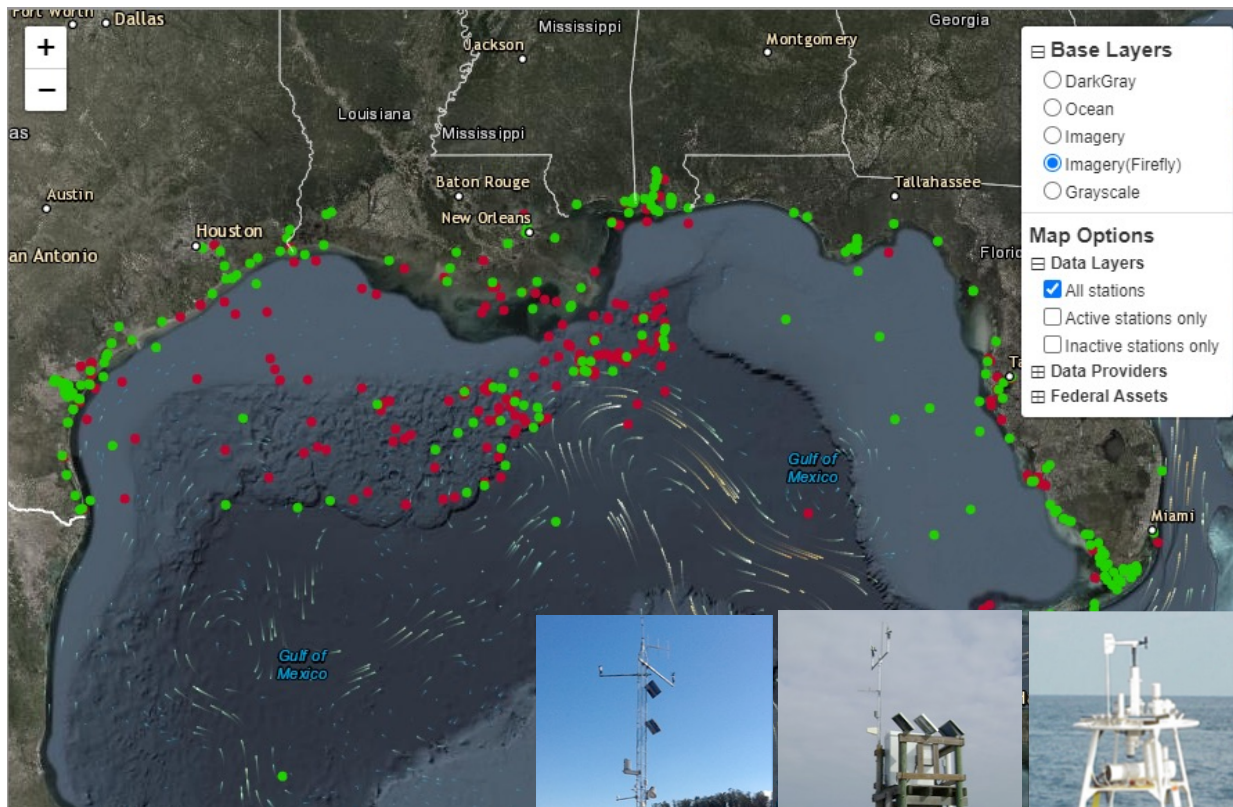
2023 IOOS DMAC Annual Meeting
Silver Spring, MD
26 - 28 September 2023

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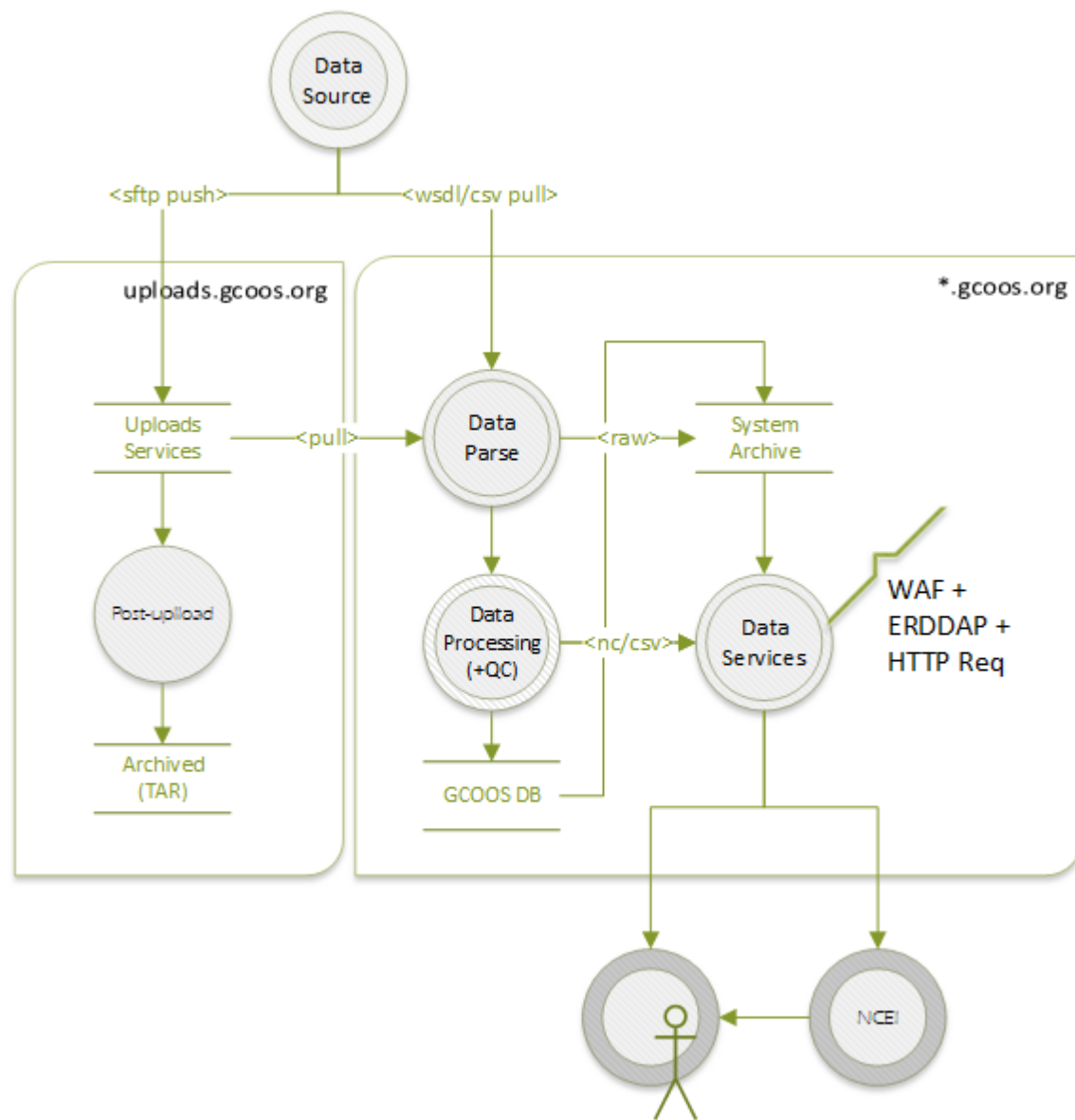
(as of May, 2023)

Data Providers: 59 organizations

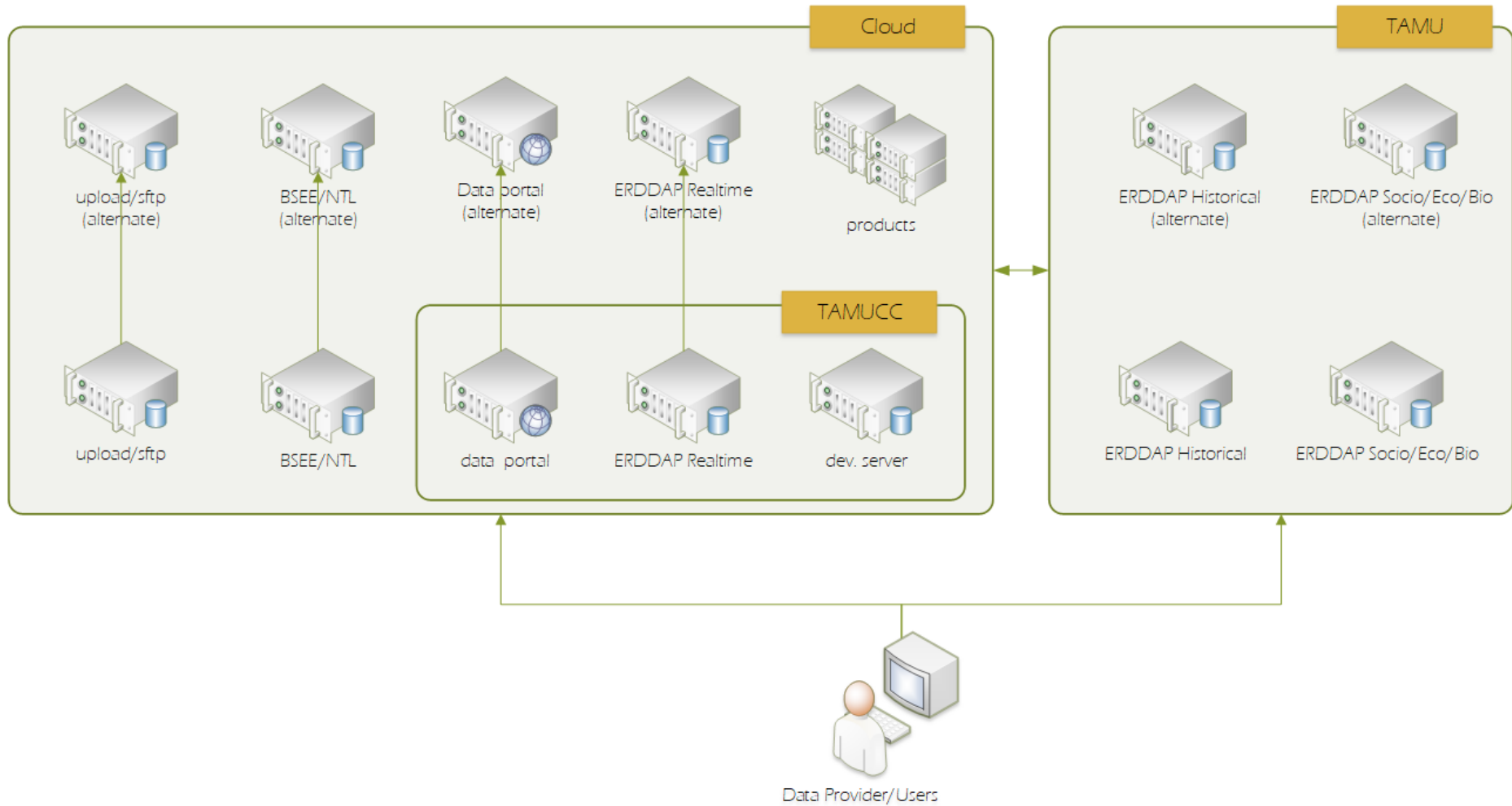
Stations: 253 LDN + 182 Fed

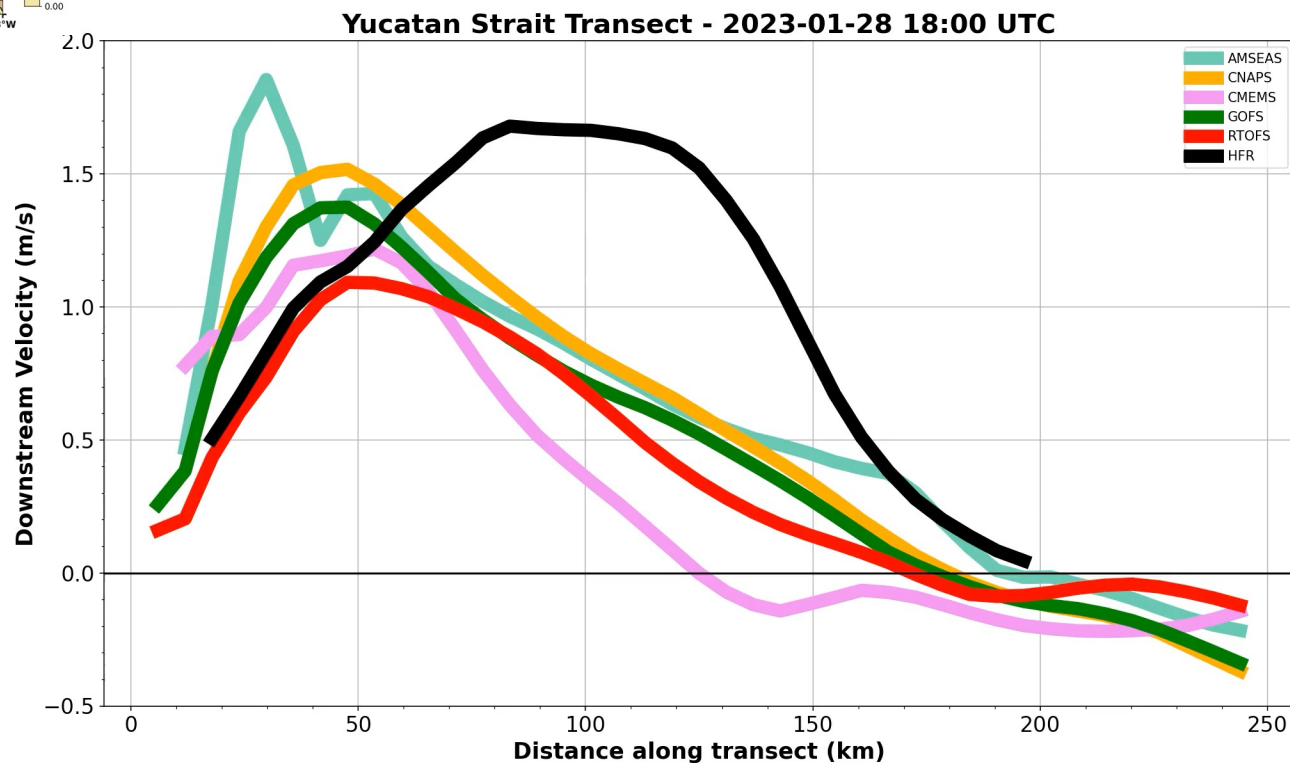
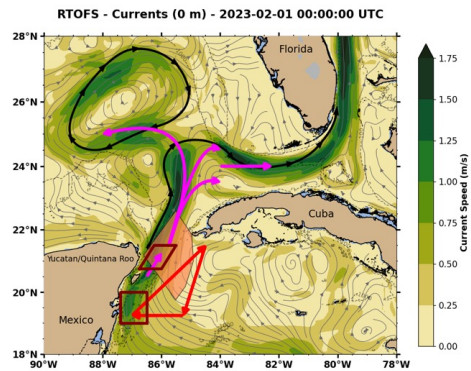
Sensors: 1,616

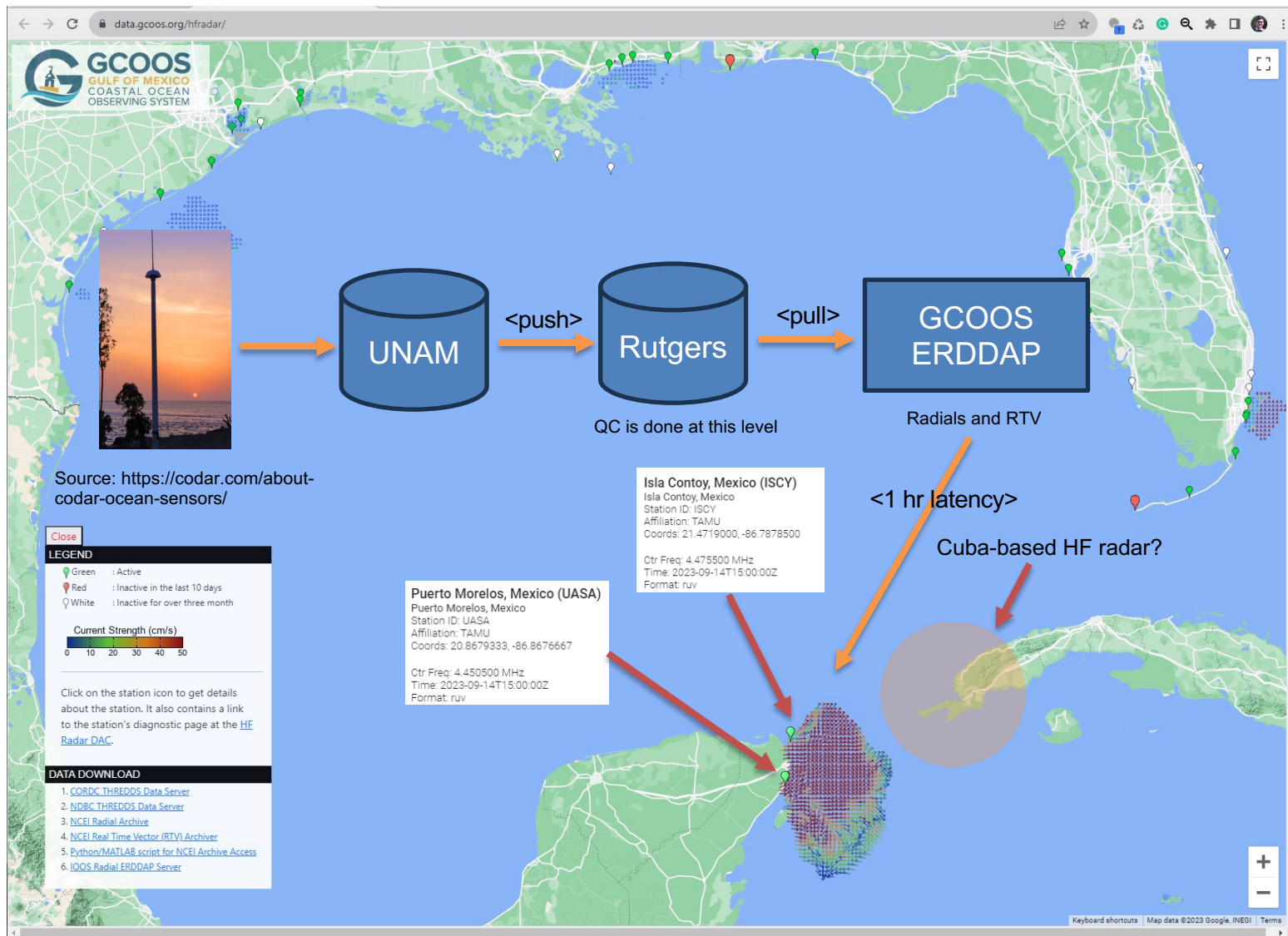
Generic Data Flow



Network/Architecture

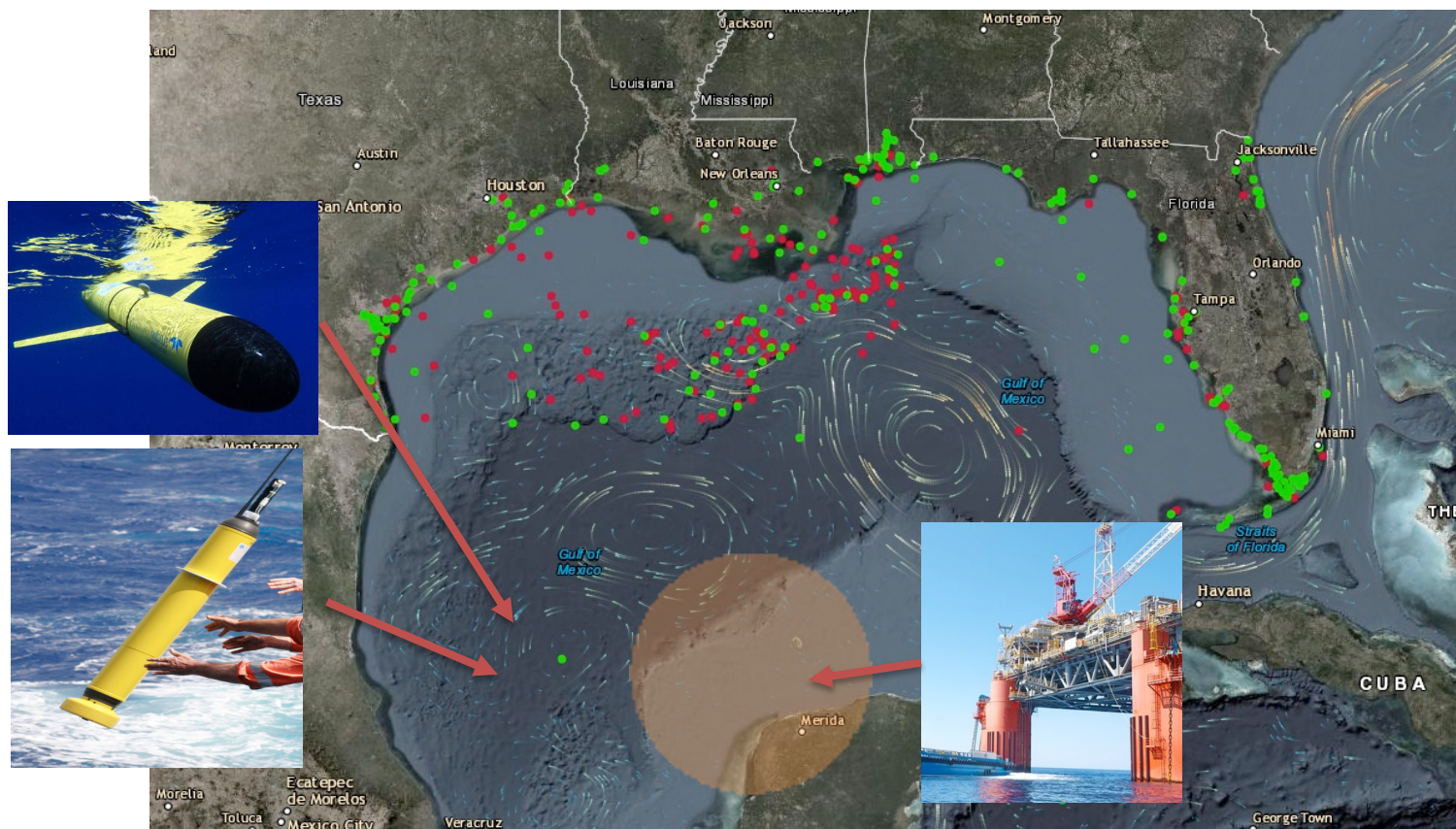






ADCPs, Gliders, Argo floats, PIES from Mexico

Sisal, Yucatan, Mexico ($21^{\circ}16'31.0''\text{N}$ $90^{\circ}03'06.4''\text{W}$): ADCP data for currents + seawater temperature



Challenges

- Open data vs. controlled data access (data access protocols)
- Long-term programs vs. project-based (sustainable funding)
- Technology and computing resources
- Unit of Measure and reporting
- Data utilization uncertainties

Solutions

- Emphasis to benefits of data sharing
- Trust and transparency on processes and data transports
- Commitment and “fee-less” cyberinfrastructure access (this is free to use!)
- Adhere to DEIA principles (sensitivity to cultural differences)
- **Constant communication**

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