

Gulf of Mexico Coastal Ocean Observing System (GCOOS.ORG)

Dr. Matthew Howard – GCOOS DMAC Lead
Deep Water Horizon Long-Term Data Management Collaboration Workshop
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Hierarchy

- Global Earth Observation System of Systems (GEOSS)
- Global Ocean Observing System (GOOS)
- U.S. Integrated Ocean Observing System (IOOS)
- 11 Regional Coastal Ocean Observing Systems (RCOOS')
- Gulf of Mexico Coastal Ocean Observing System

**We are in our third 5-year cycle
Renewed to 2021 ~\$1.5M/yr
~3 Data-type FTEs**

Vision Statement

“Develop and maintain an automated largely-unattended interoperable system of systems which delivers high-quality data, metadata and products from sensors to desktops in preferred formats.”



–Matthew Howard

DMAC Scope

- Metadata Management
 - Data Discovery
 - Uniform On-line Browse
 - Data Access and Transport
 - Data Archive
-
- Web Services Sensor Observation Service (SOS), CSV
 - ERDDAP/TDS (NetCDF)



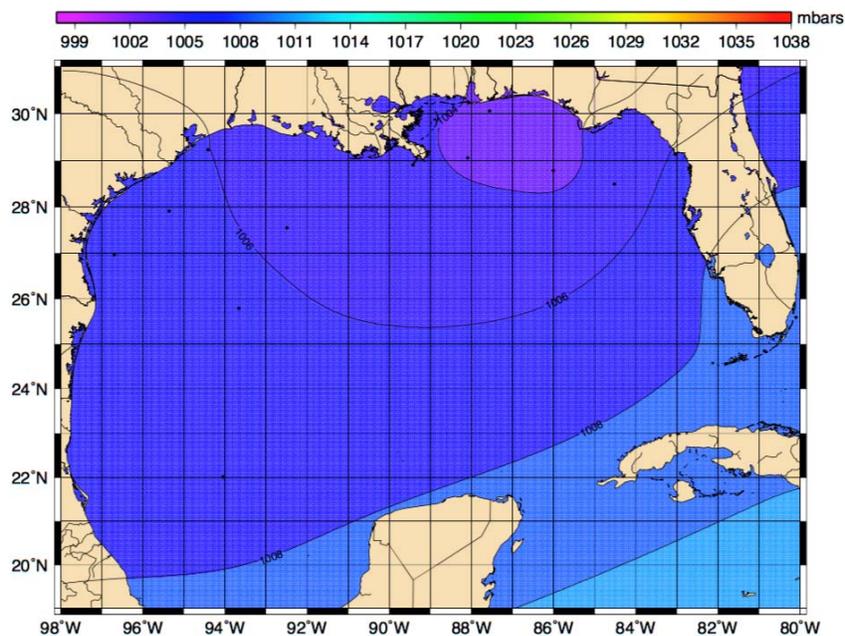
Data Types (fixed, mobile, remote sensing)

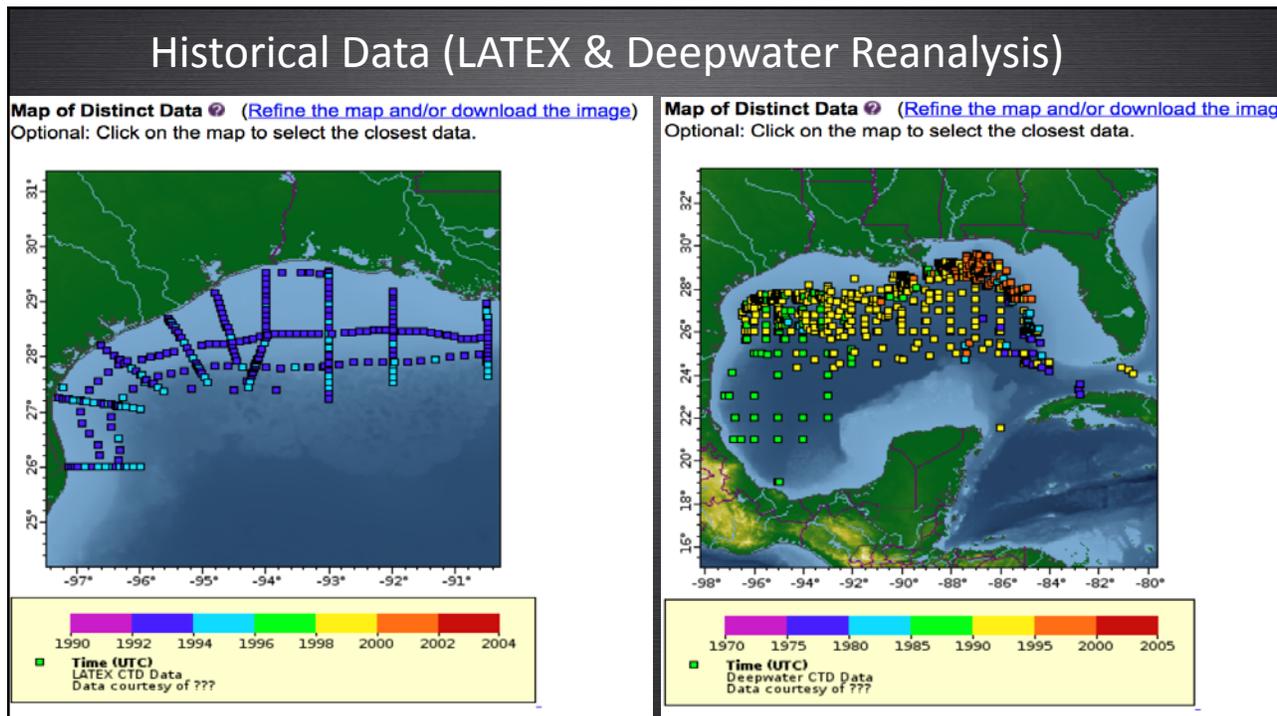
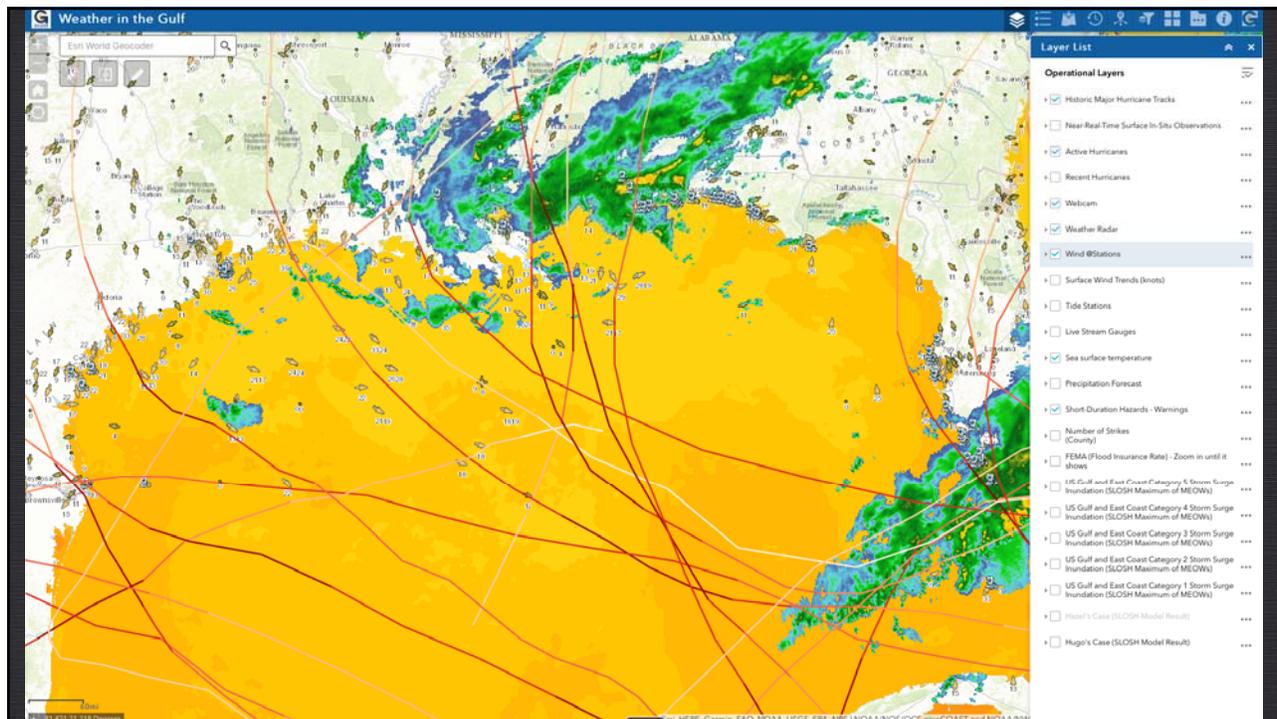
- Physical Oceanographic (T, S, Currents, Water level, River discharge ...)
- Marine Meteorological (Winds, Temperature, Pressure ...)
- Biogeochemical (nutrients, dissolved oxygen, pH, ...)
- Biological (plankton, fish, ...)
- Near real-time
- Numerical Model Forecasts (winds, currents)
- Historical Data (near real-time, field cruises, reanalysis, ...)
- Climatologies (Temperature, Salinity, ...)
- Static (bathymetry, coastlines)

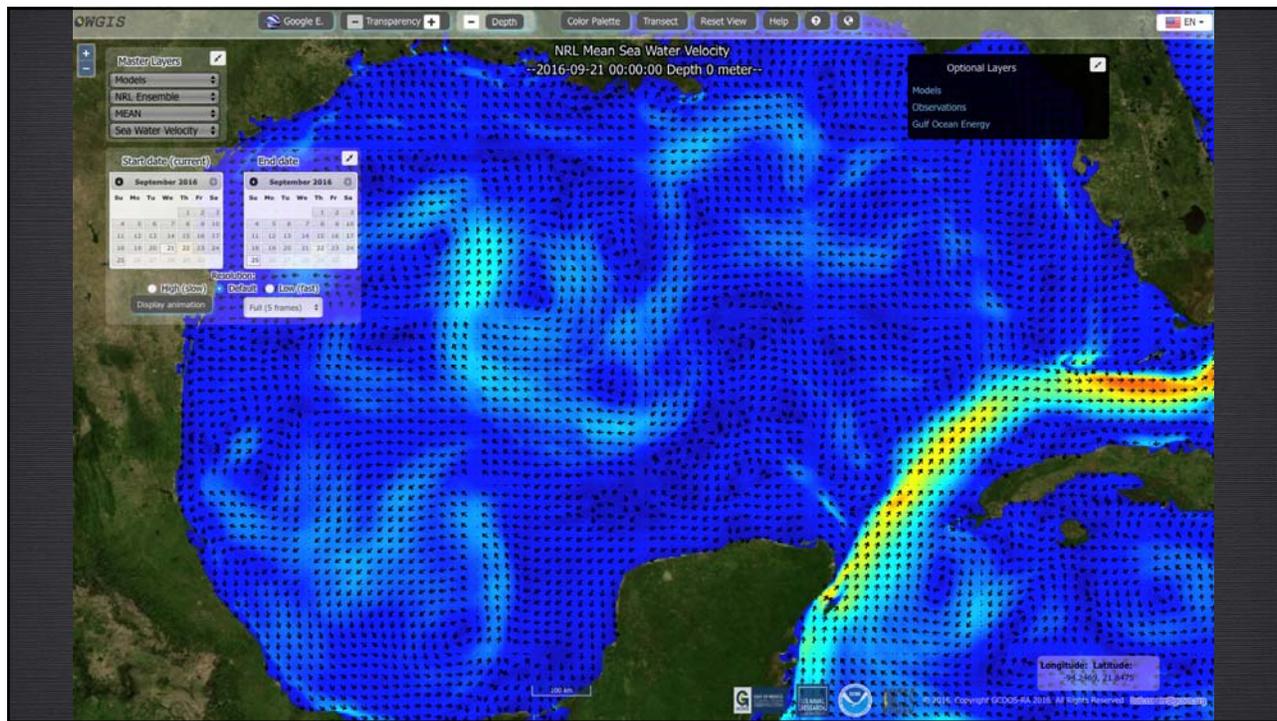


Barometric Press.

Local Date/Time: 17060618 UT Date/Time: 17060623

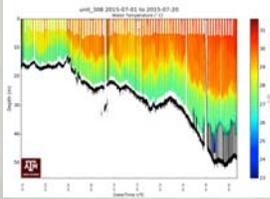






Gandalf

- Trajectories, Data, Summaries
- Plots, Overlays, Google Earth



Gulf Of Mexico Coastal Ocean Observing System Gulf AUV Network and Data Archive Long-term storage Facility (GANDALF)

Home Summaries Deployed Help
Archived AUV Trajectories



AUV Deployment Summaries											
PL	Vehicle	Type	Operator	Project	Deployment	Recovery	Depth (m)	Distance (km)	Date	EMET	Plots
Buckler/Dixon	note_genie	Slocum G2	Mass	FWRI	2015-12-01	2015-12-11	10	149			
Buckler/Dixon	note_genie	Slocum G2	Mass	FWRI	2015-11-09	2015-11-12	3	38			
Orbilinea	wc_02	Slocum G2	DFP/Seibers	Loop Current	2015-09-23	2015-11-01	30	1268			
Dixon	usf_bea	Slocum G1	USF	FWRI	2015-08-27	2015-09-04	9	138			
D'Marco	Svenrup	Slocum G2	TAMU	GERG	2015-08-22	2015-11-10	80	862			
Rathaus/Is	usf_murphy	Slocum G2	USF	USF	2015-08-09	2015-08-19	10	265			
D'Marco	Strommel	Slocum G2	TAMU	GERG	2015-08-05	2015-10-12	68	1177			
Dixon	usf_bea	Slocum G1	USF	FWRI	2015-07-06	2015-07-17	11	182			
D'Marco	usf_308	Slocum G2	TAMU	GERG	2015-07-01	2015-07-20	13	340			
D'Marco	usf_540	Slocum G2	TAMU	GERG	2015-07-01	2015-07-20	13	267			
Dixon	usf_bea	Slocum G1	USF	FWRI	2015-06-15	2015-06-23	8	137			
D'Marco	usf_307	Slocum G2	TAMU	GERG	2015-03-02	2015-03-25	23	207			
Dixon	note_545	Slocum G1	Mass	FWRI	2014-08-01	2014-08-13	12	251			



