

GCOOS HFR Network: Status and Challenges

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Outline

- GCOOS HFR status
- GCOOS HFR challenges
- GCOOS HFR future plans

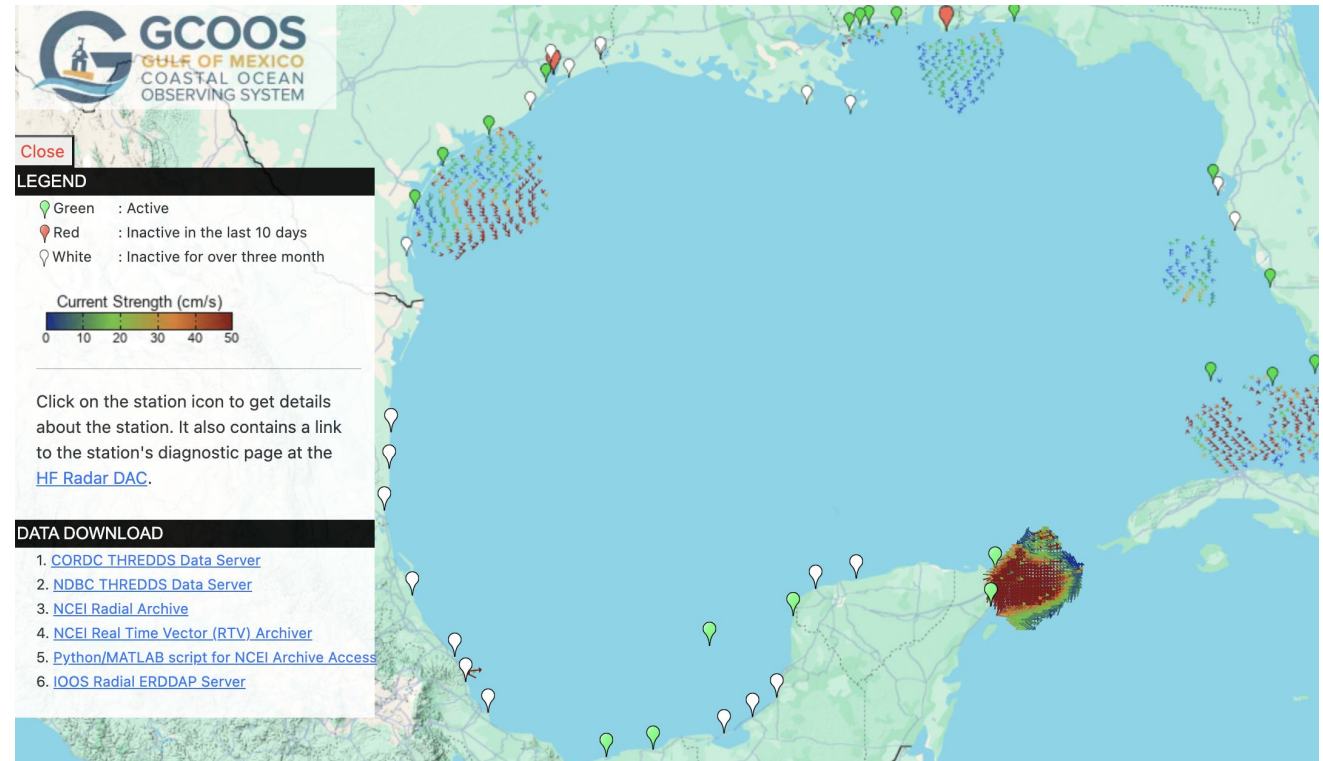
GCOOS HFR NETWORK

- GCOOS sponsored HFR group

- GERG
 - 6 sites
- RATES
 - 5 sites
- USM
 - 6 sites
- FUGRO
 - 2 sites

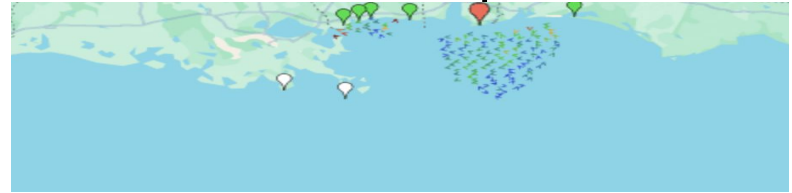
- Contributors

- OORCO
- UGOS



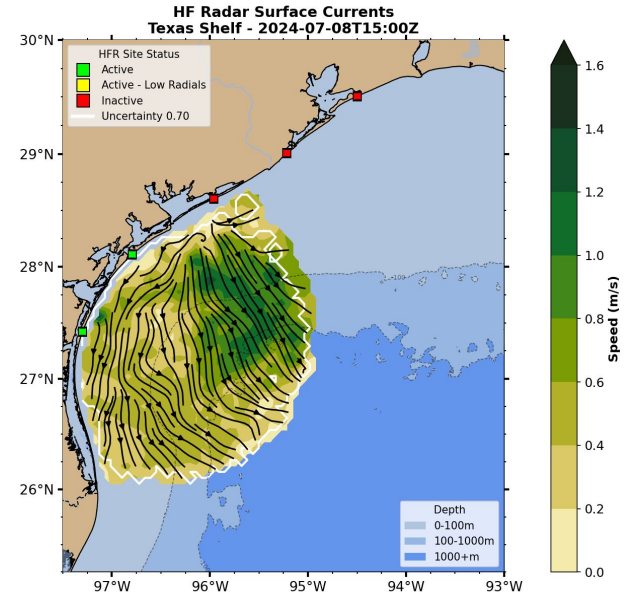
GCOOS HFR Challenges

- Numerous gaps are present in the surface current maps on the Gulf
 - GCOOS HFR sites are few
 - SSDE
 - Security issues for instance
 - RLVR reinstallation
 - LSU and FSU installation
- Both archived and real-time data do not meet IOOS QARTOD
 - Degrades data integrity
 - Operators are not currently funded to reanalyze HFR data
- Technical issues
 - Equipment breakdown
 - Antenna pattern measurements are not regular
 - Construction around the HFR sites
 - Poor record keeping



GCOOS HFR Future Plans

- Implementation of IOOS QARTOD on both archived and real-time data
 - Adopting MARACOOS toolbox
- Extension of GCOOS network
 - FSU and LSU new stations
- Site restoration efforts
 - Additional funds for modernization and recapitalization of the sites
- Development of GCOOS SOP for technical operations such as APM



Questions