Surface Currents of Puerto Rico and USVI

USVI Coastal Ocean
Modelling Workshop
May 2, 2024

Dr. Hugh Roarty



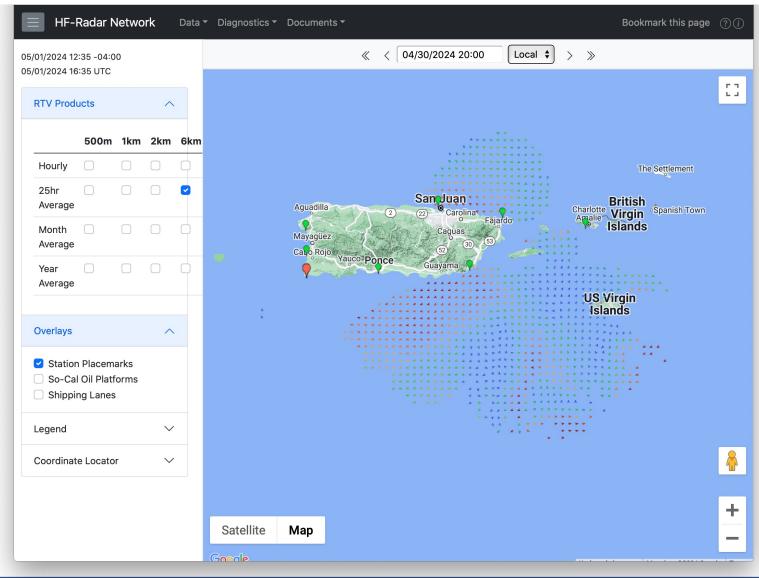








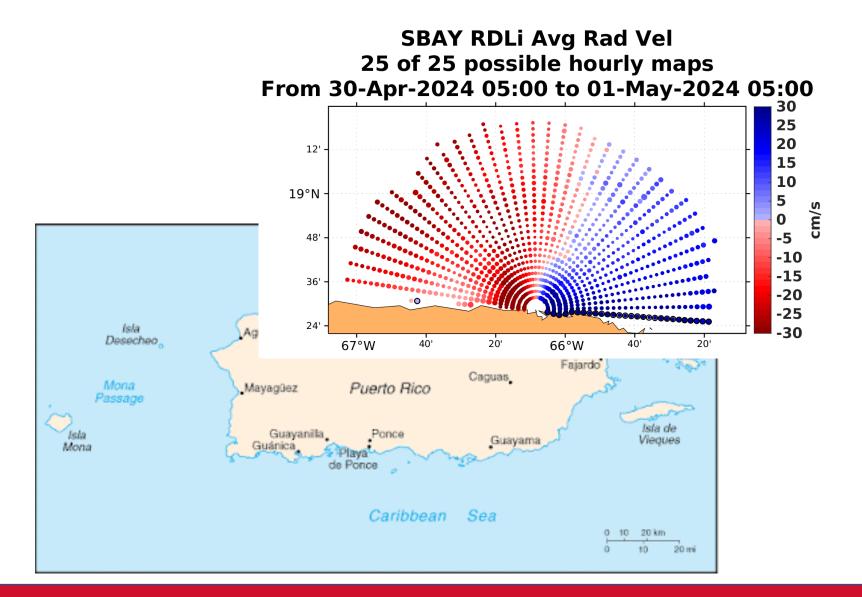
https://cordc.ucsd.edu/projects/hfrnet/



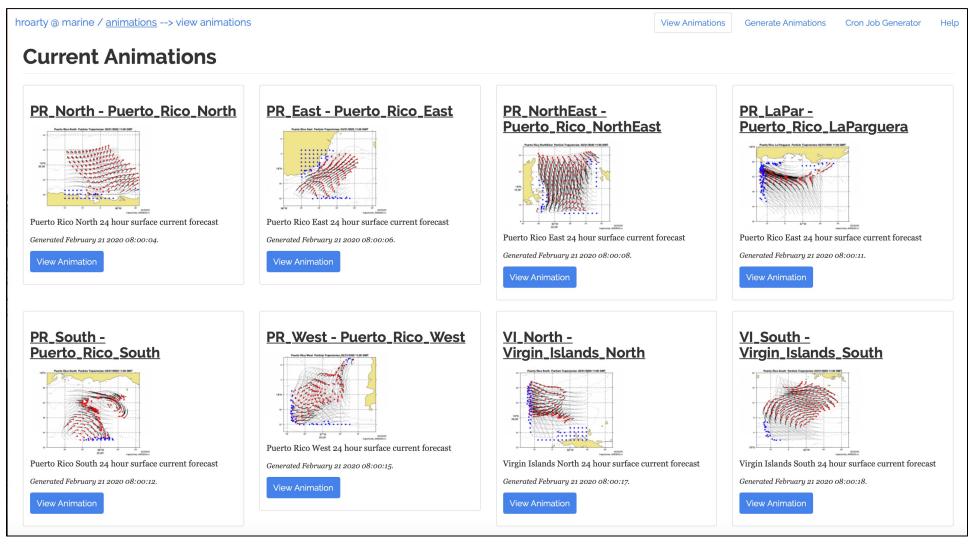
Surface Current Measurements

- 8 HF radar stations in Puerto Rico and USVI
- 5 on west and south shore have been running since 2009
- 2 on north shore and 1 in USVI came online recently

Radar Diagnostics

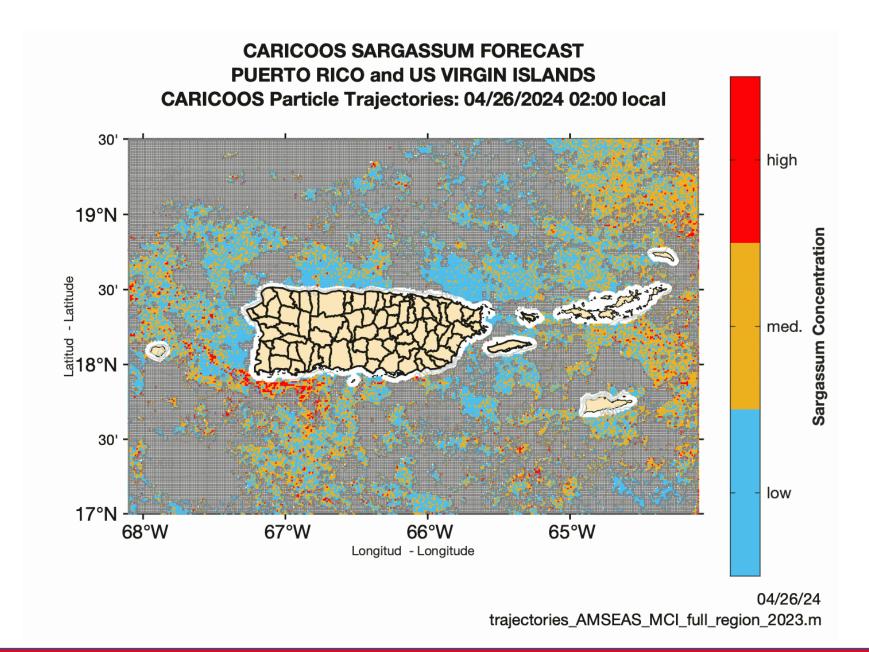


The Sargassum Tracker – Since June 2019



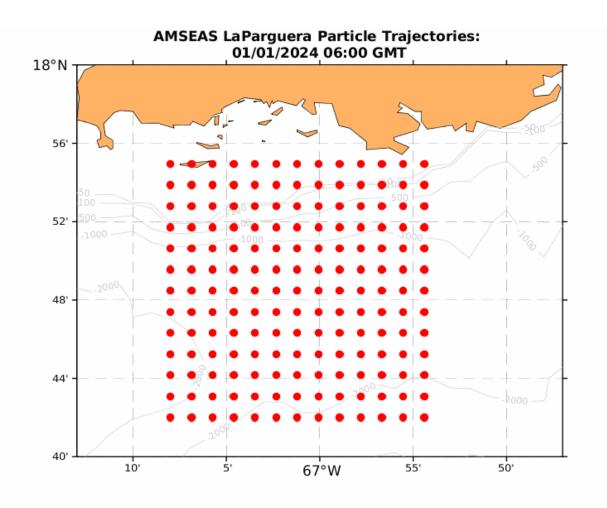
https://marine.rutgers.edu/~hroarty/caricoos/animations/

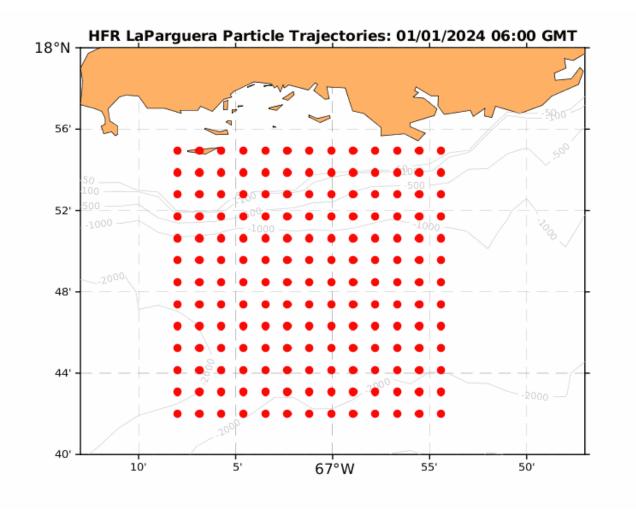




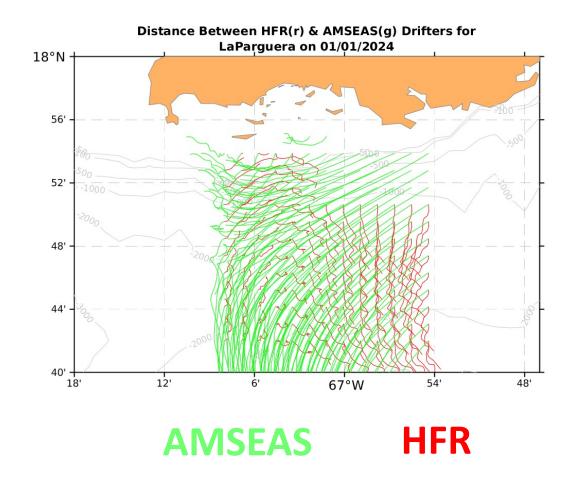
AMSEAS Model

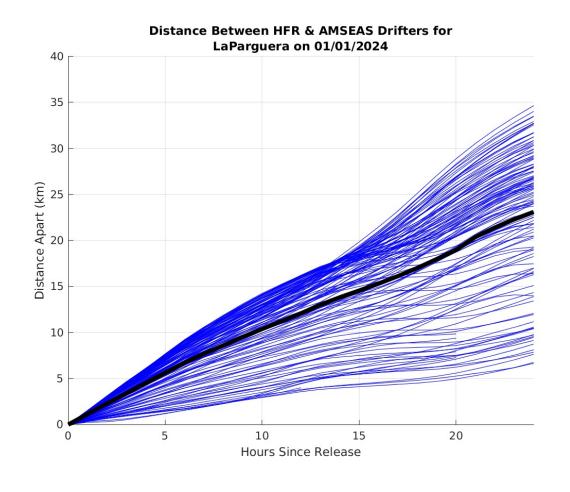
HFR Measurements

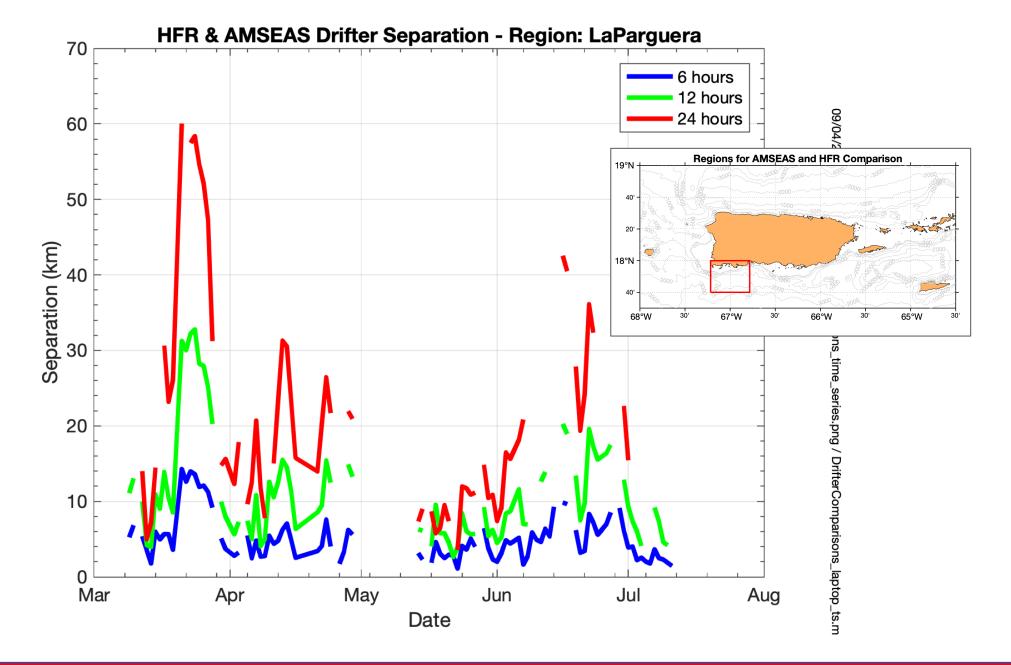




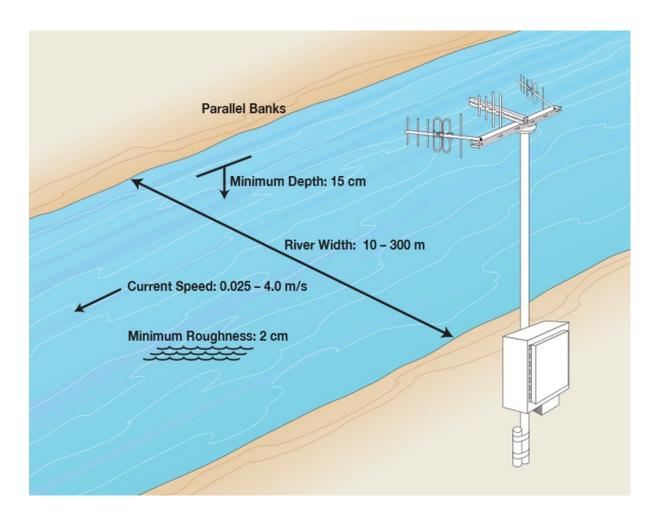
AMSEAS Surface Drifter Error



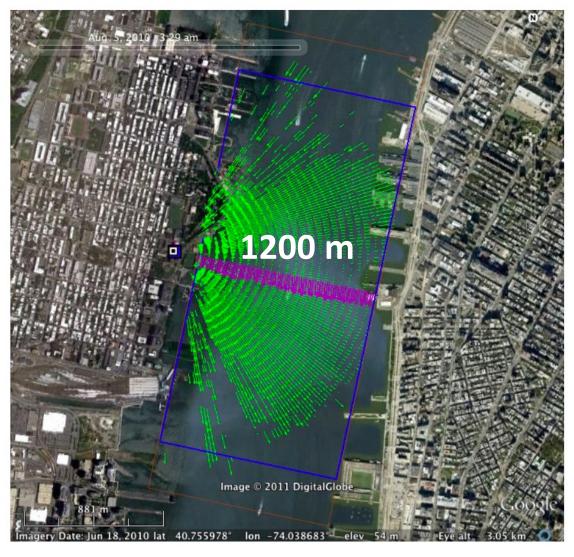




CODAR RiverSonde



Deployment on Hudson River



THANKS

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AFAI vs MCI

