

MARACOOS Ocean Information for a Changing World



- (RU-COOL) deployed **underwater gliders** in Hurricanes Irene (2011) and Sandy (2012)
- **complex coastal mixing** that occurs during temperatures (SST) in the wake of the storms
- Sandy cooling
- intensity underpredictions as well as speed/ **timing** forecasts for Hurricane Sandy?





Impact of Ocean Observations on Hurricane Irene and Hurricane Sandy Forecasts

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What We Learned

The coastal ocean can play a significant role in the intensity and track of hurricanes. Unique ocean observations before, during, and after Hurricanes Irene and Sandy have led to improved atmospheric forecasts. 3. The same observations are currently being used to validate ocean models in simulation of coastal mixing during storms.







Paper

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