

EVALUATION OF THE NOAA REAL TIME OCEAN FORECAST SYSTEM_ATLANTIC FOR OPERATIONAL USE AT THE NOAA OCEAN PREDICTION CENTER

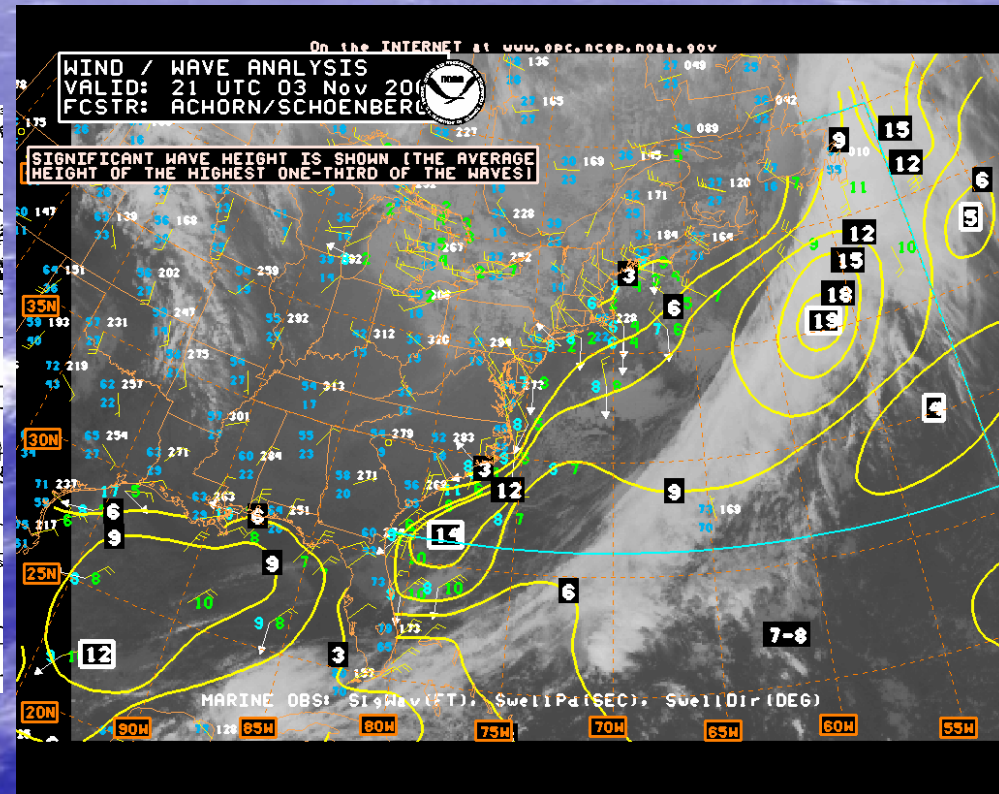
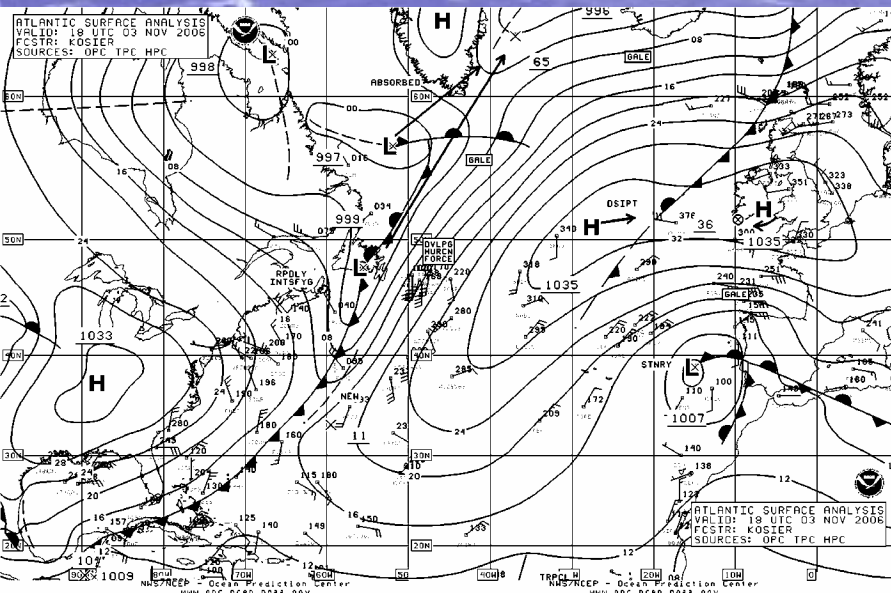
R.M. Daniels, IMSG @ NOAA / OPC
J.M. Sienkiewicz, NOAA / OPC

OUTLINE

- Ocean Prediction Center
- New Model vs. Old Model (RT_OFS_ATL vs. ROFS)
- RT_OFS_ATL vs. Satellite (GOES) SST
- Comparison w/ Buoys
- RT_OFS_ATL Displays and Capabilities
- Future Plans

Ocean Prediction Center

Surface Analysis



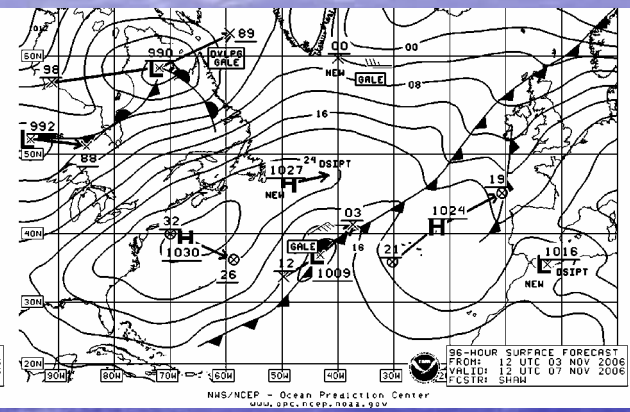
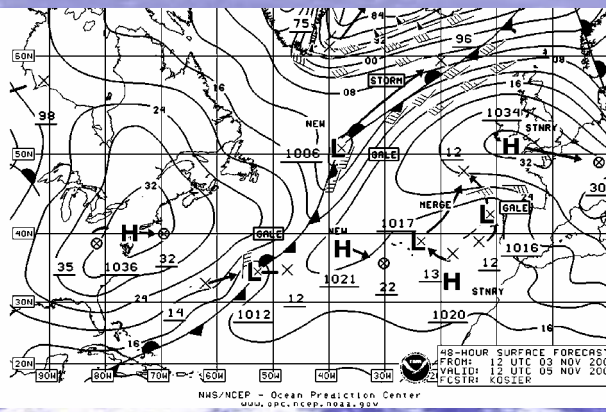
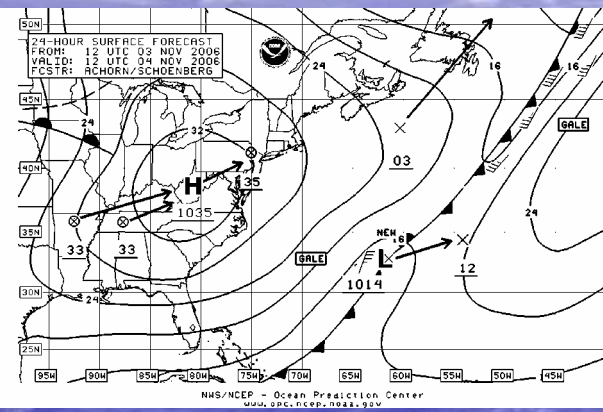
Ocean Prediction Center

24 Hour Forecast

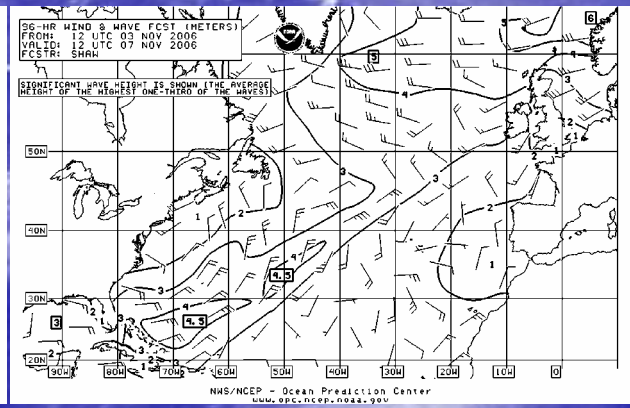
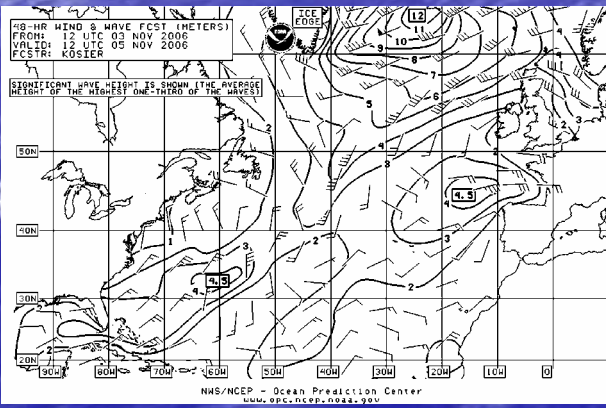
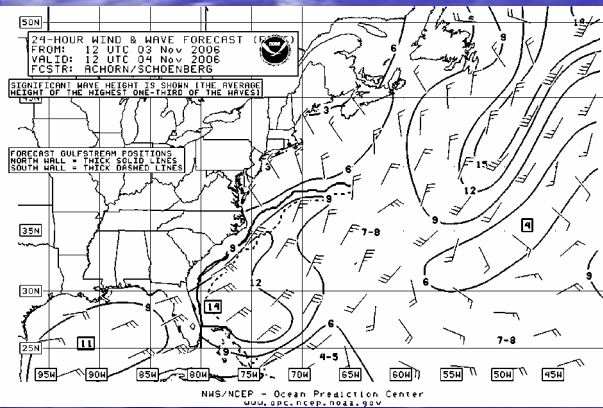
48 Hour Forecast

96 Hour Forecast

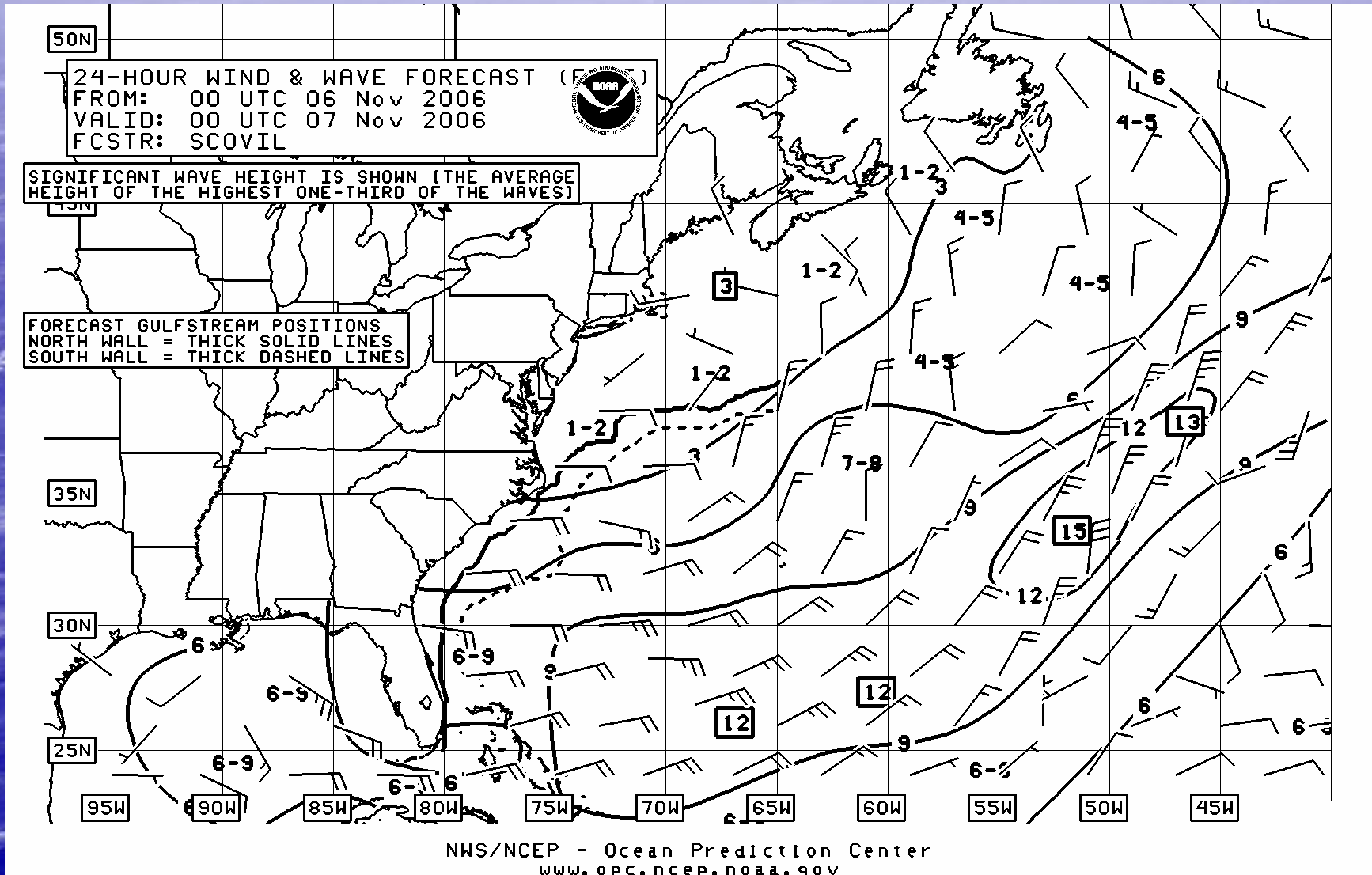
Surface



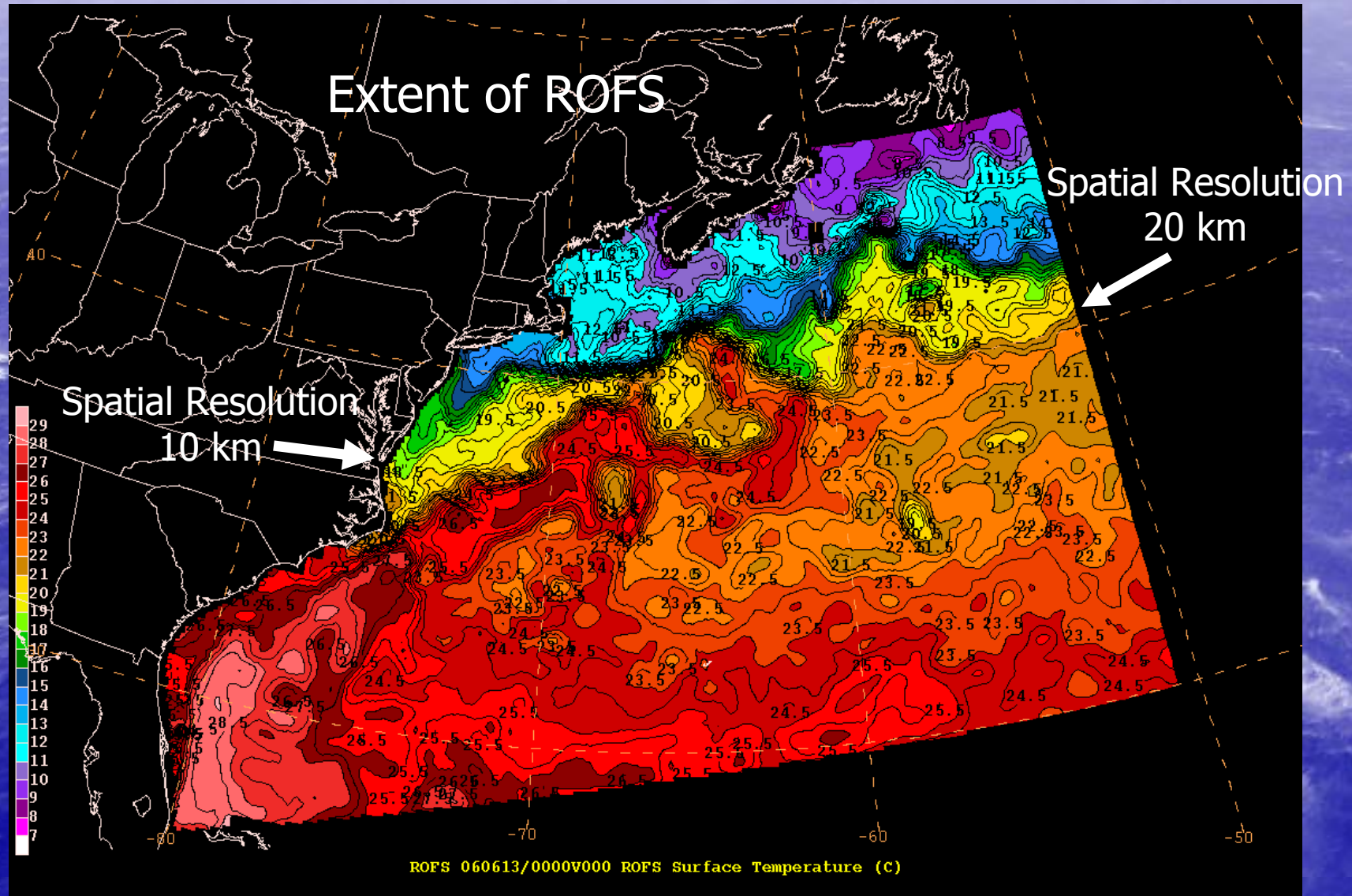
Wind & Wave



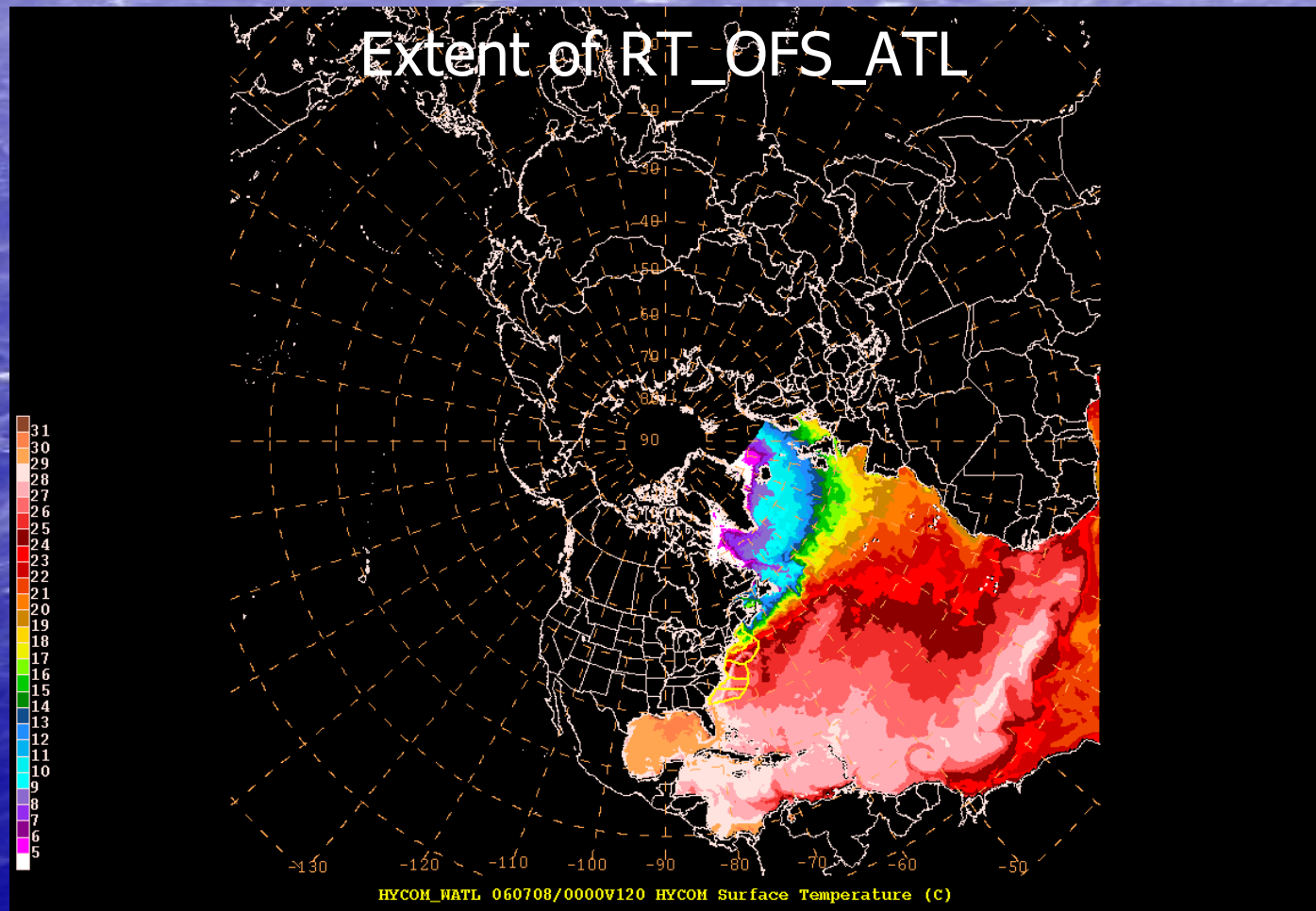
Ocean Prediction Center



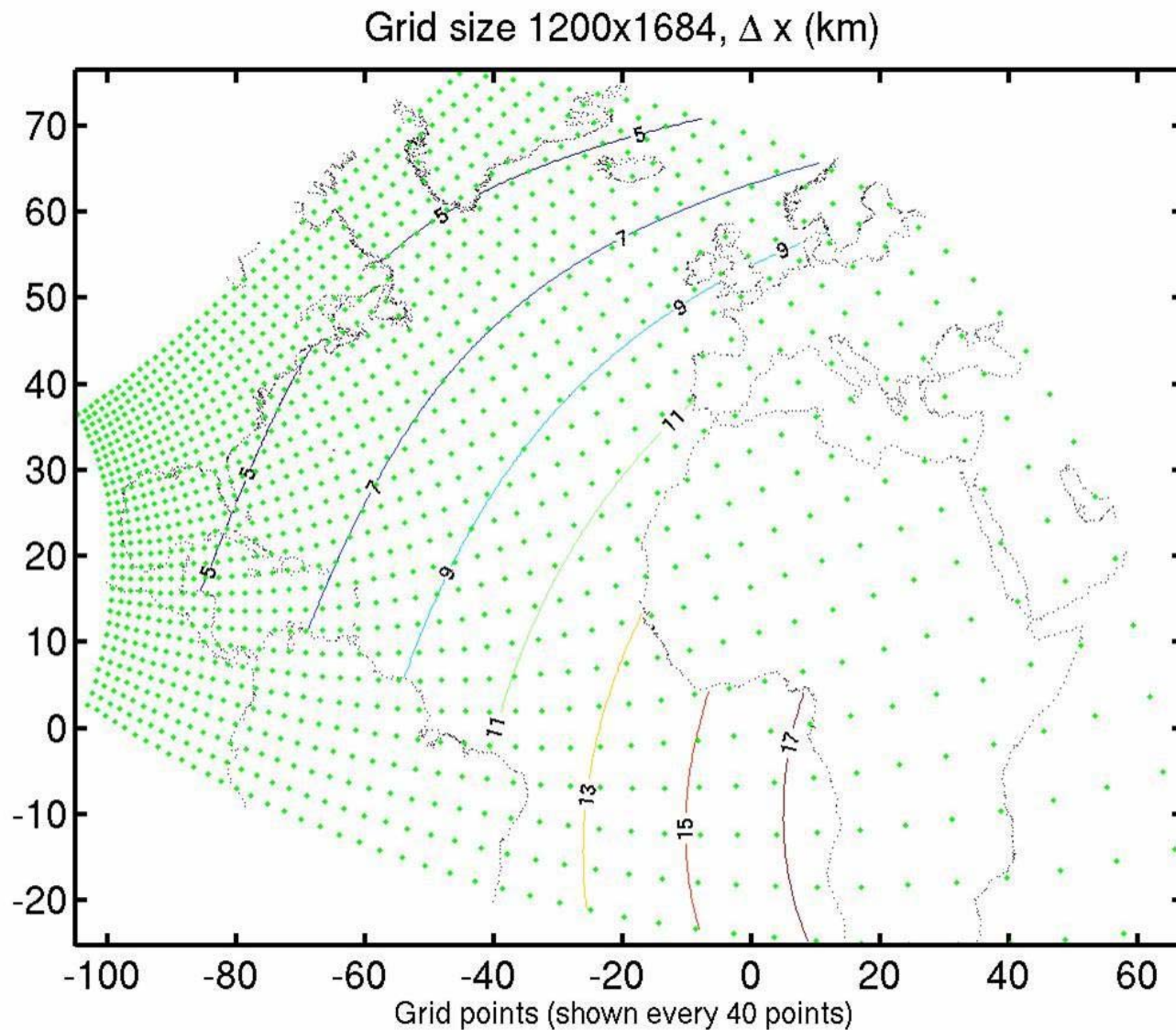
RT_OFS_ATL vs. ROFS



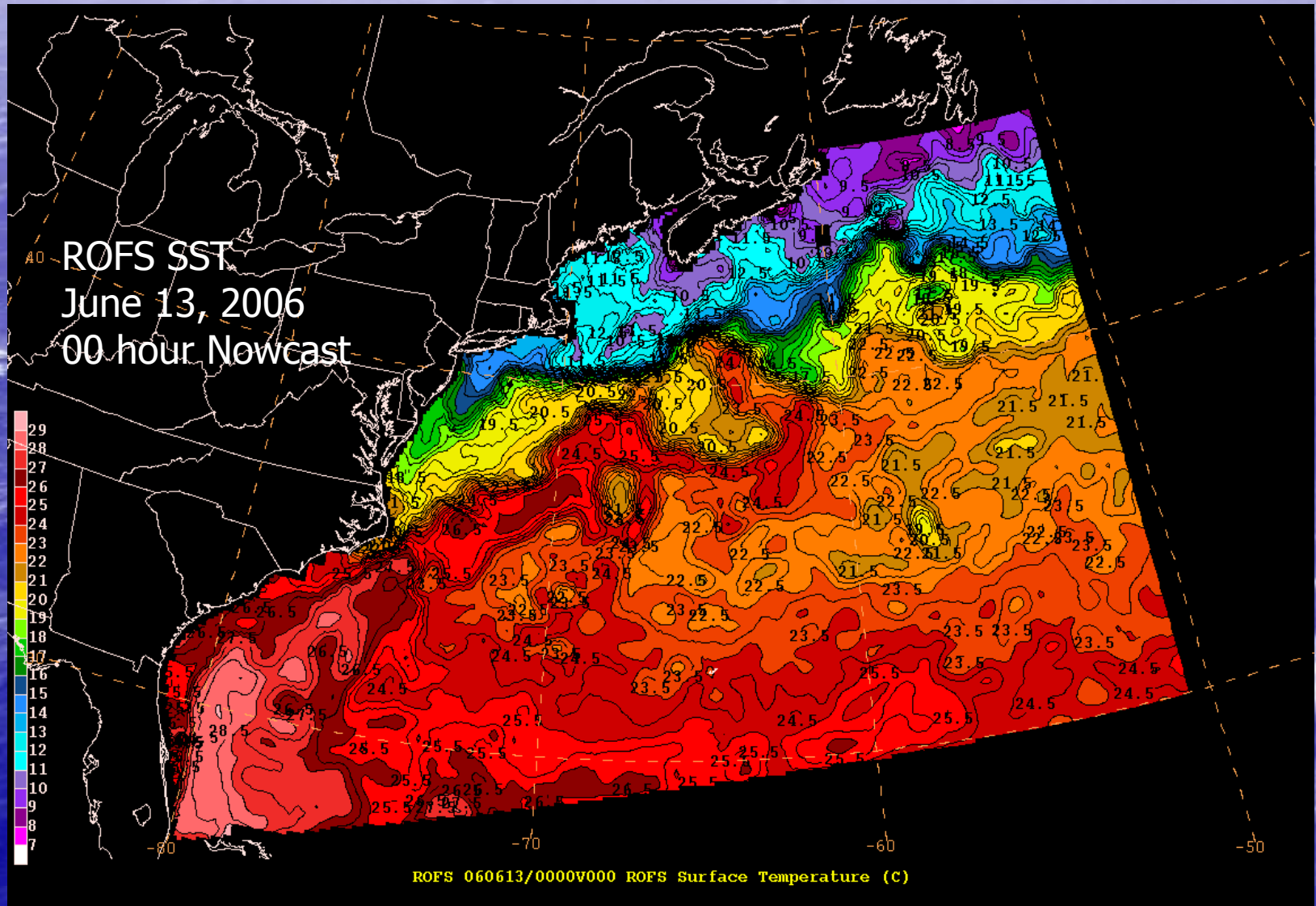
RT_OFS_ATL vs. ROFS



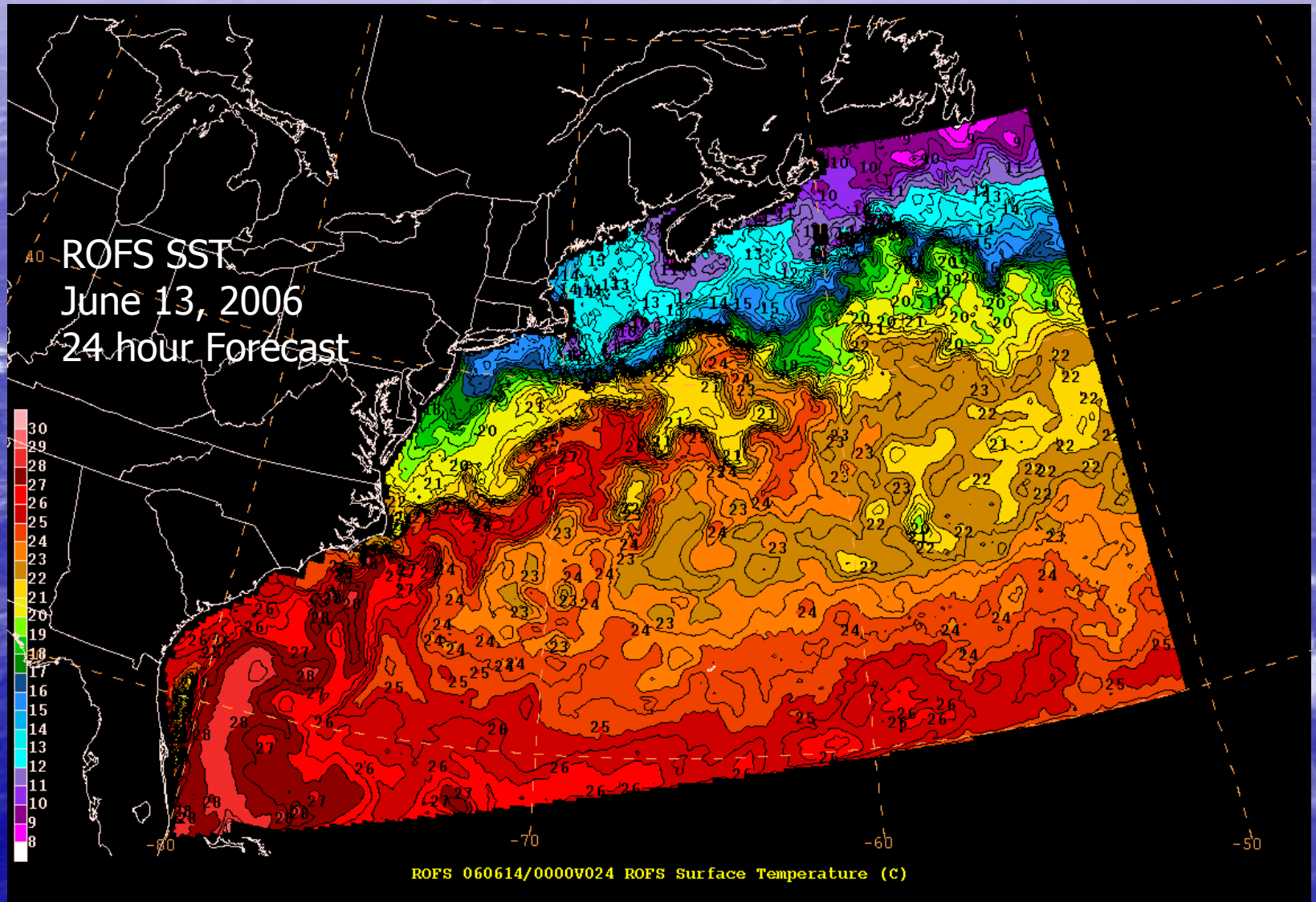
RT_OFS_ATL vs. ROFS



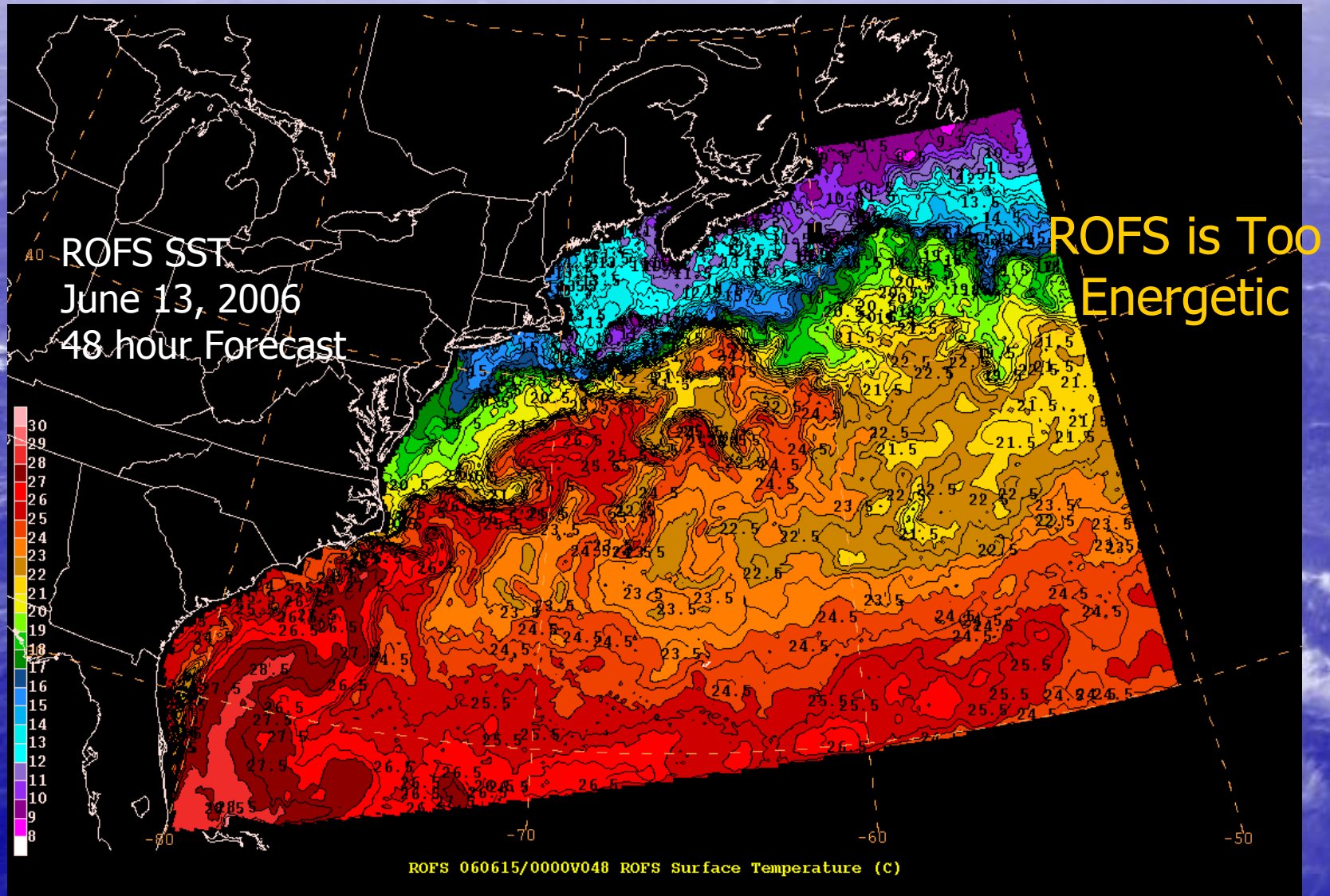
RT_OFS_ATL vs. ROFS



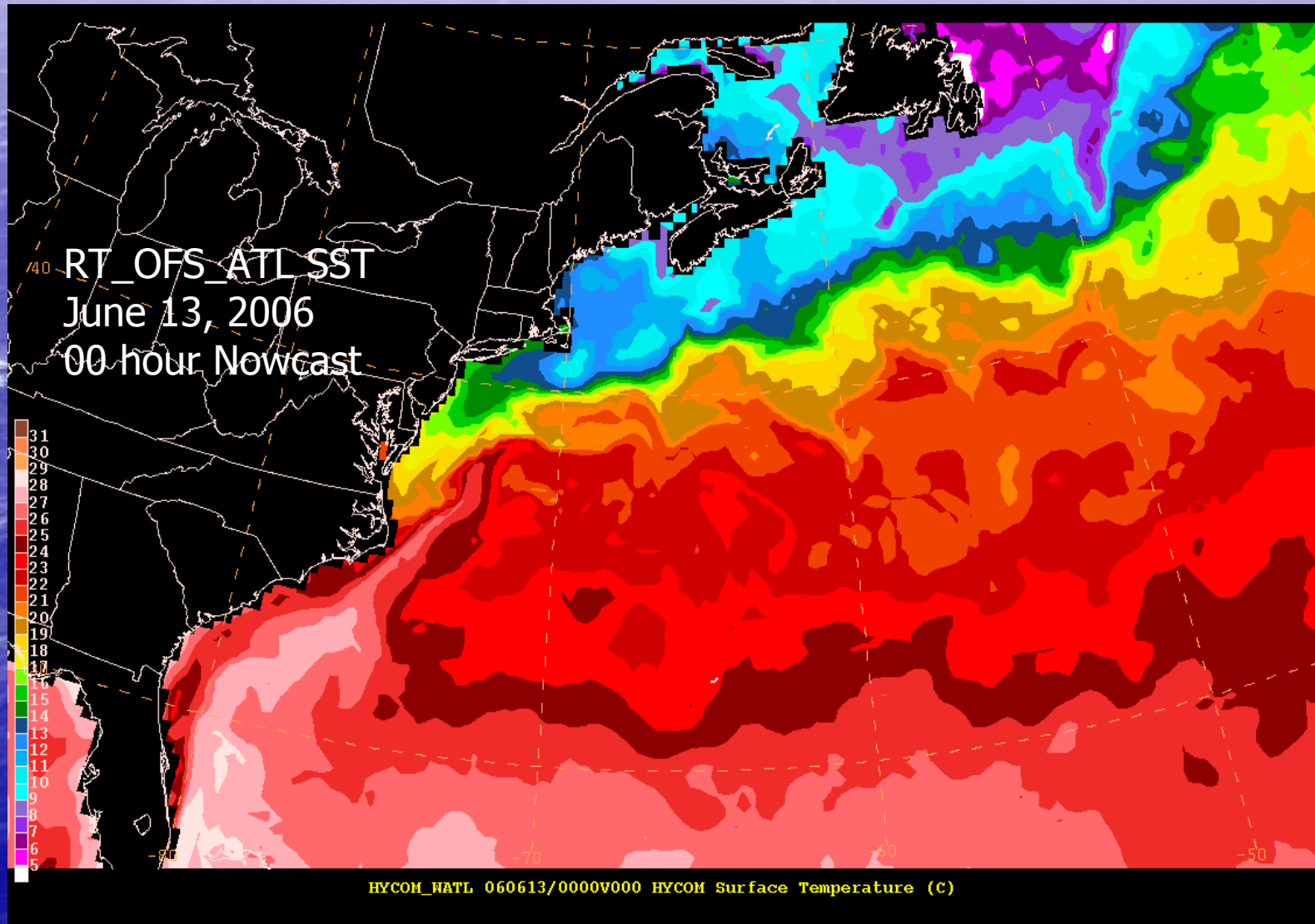
RT_OFS_ATL vs. ROFS



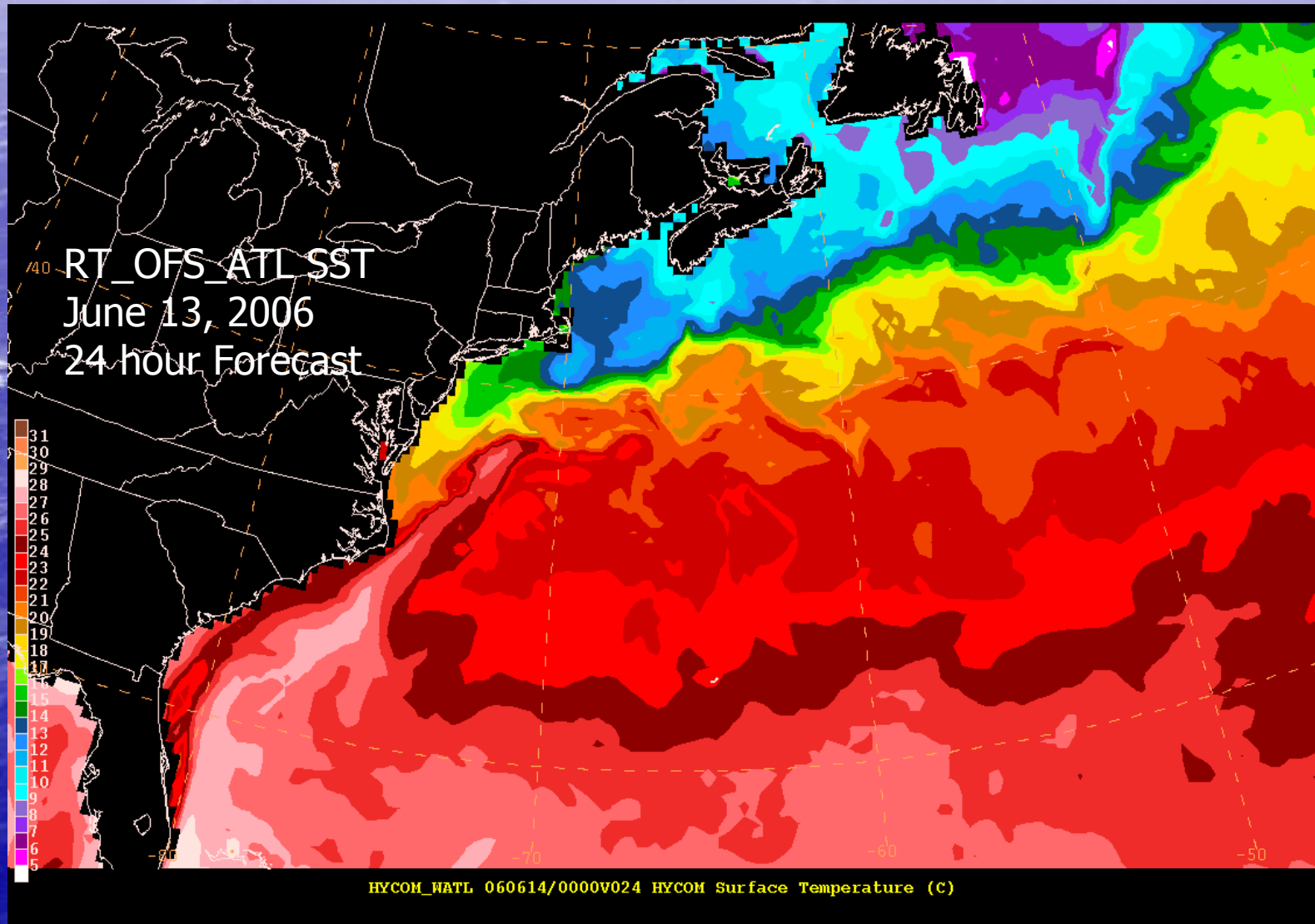
RT_OFS_ATL vs. ROFS



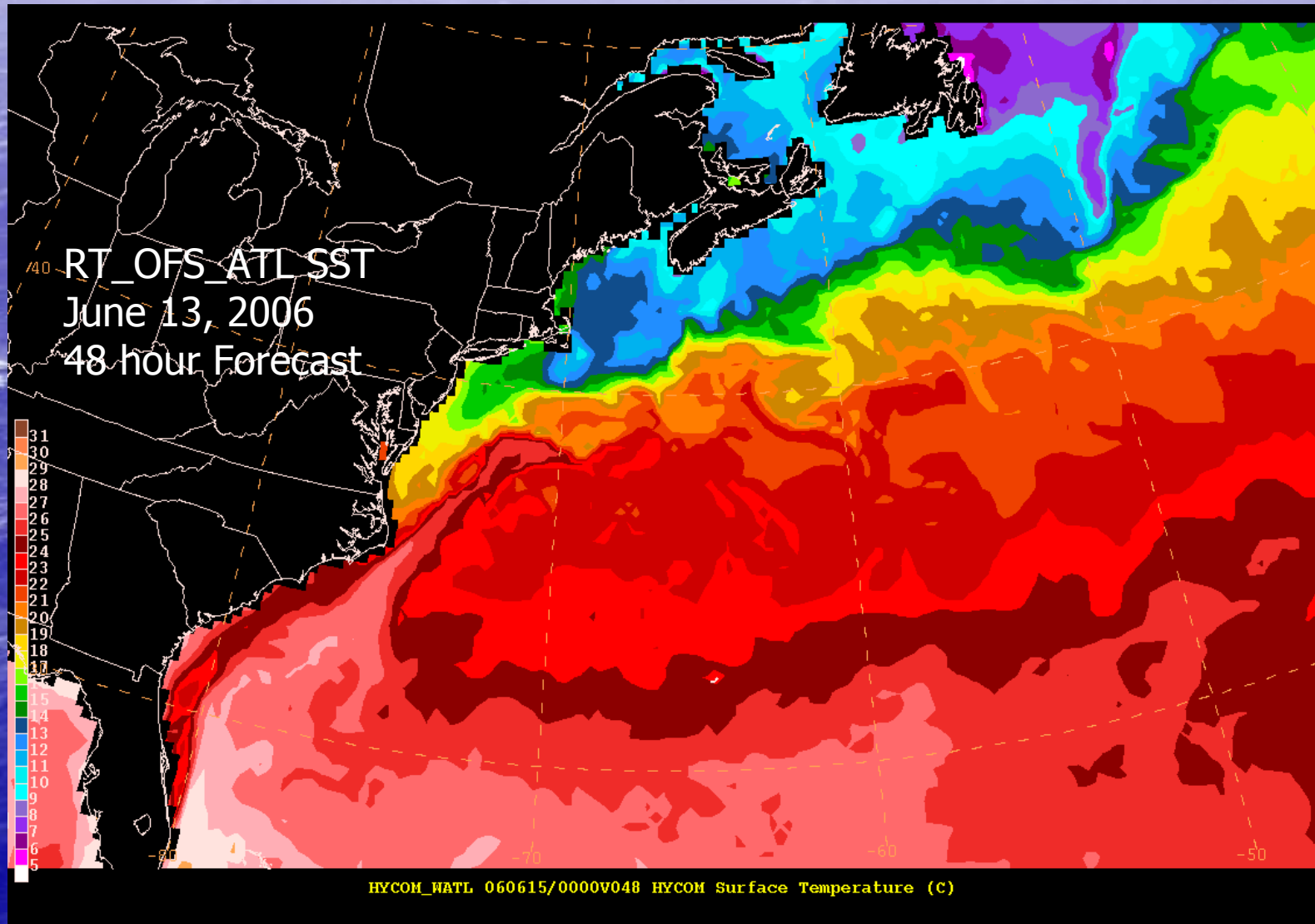
RT_OFS_ATL vs. ROFS



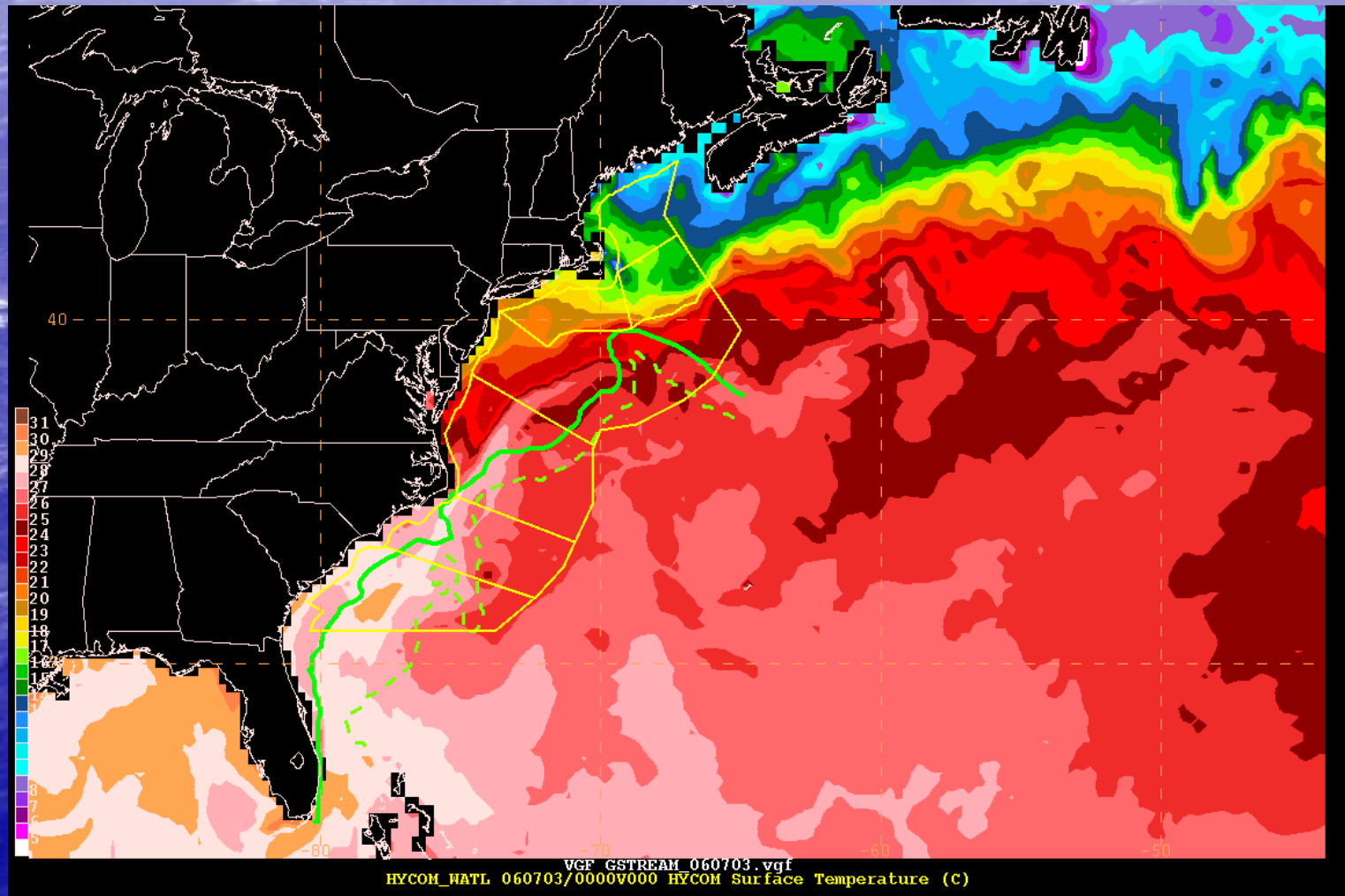
RT_OFS_ATL vs. ROFS



RT_OFS_ATL vs. ROFS

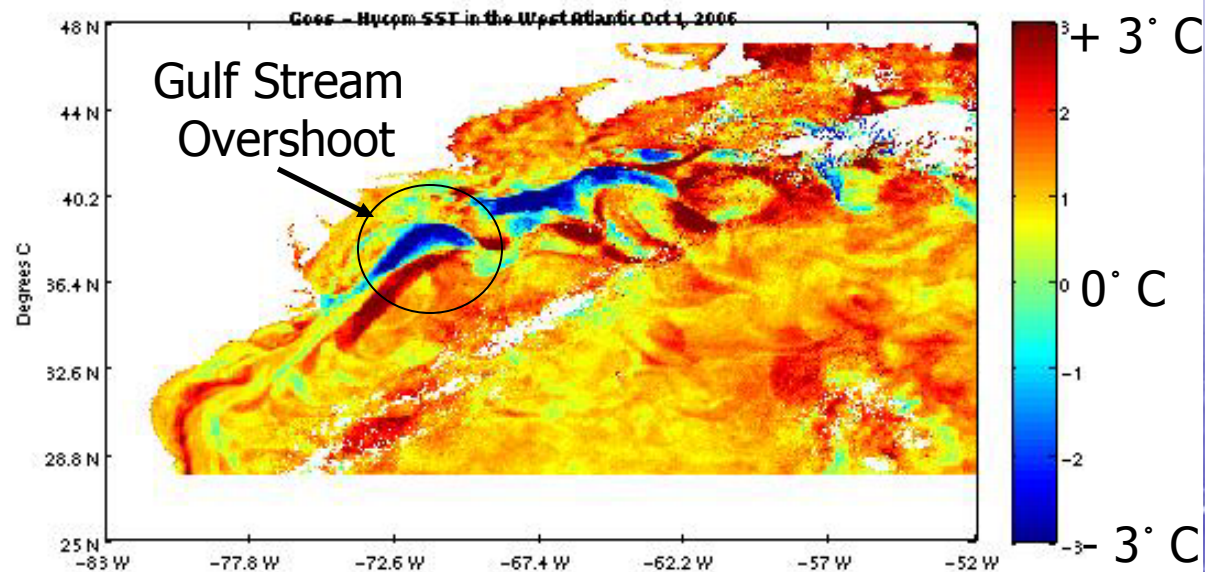


RT_OFS_ATL vs. Navy Gulf Stream

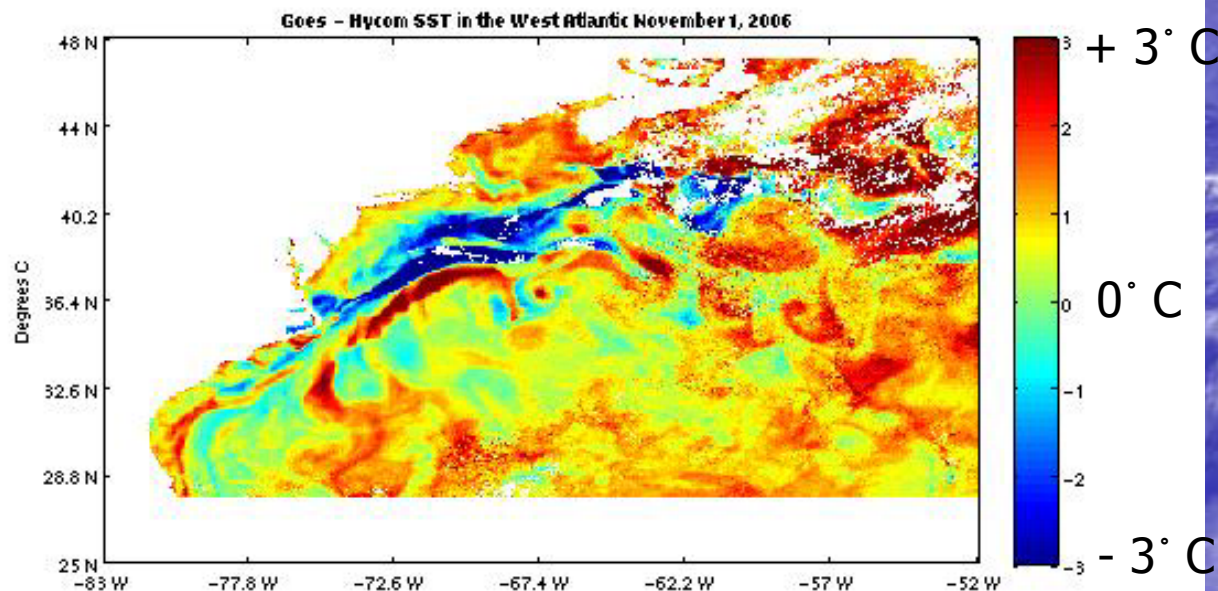


RT_OFS_ATL vs. GOES SST

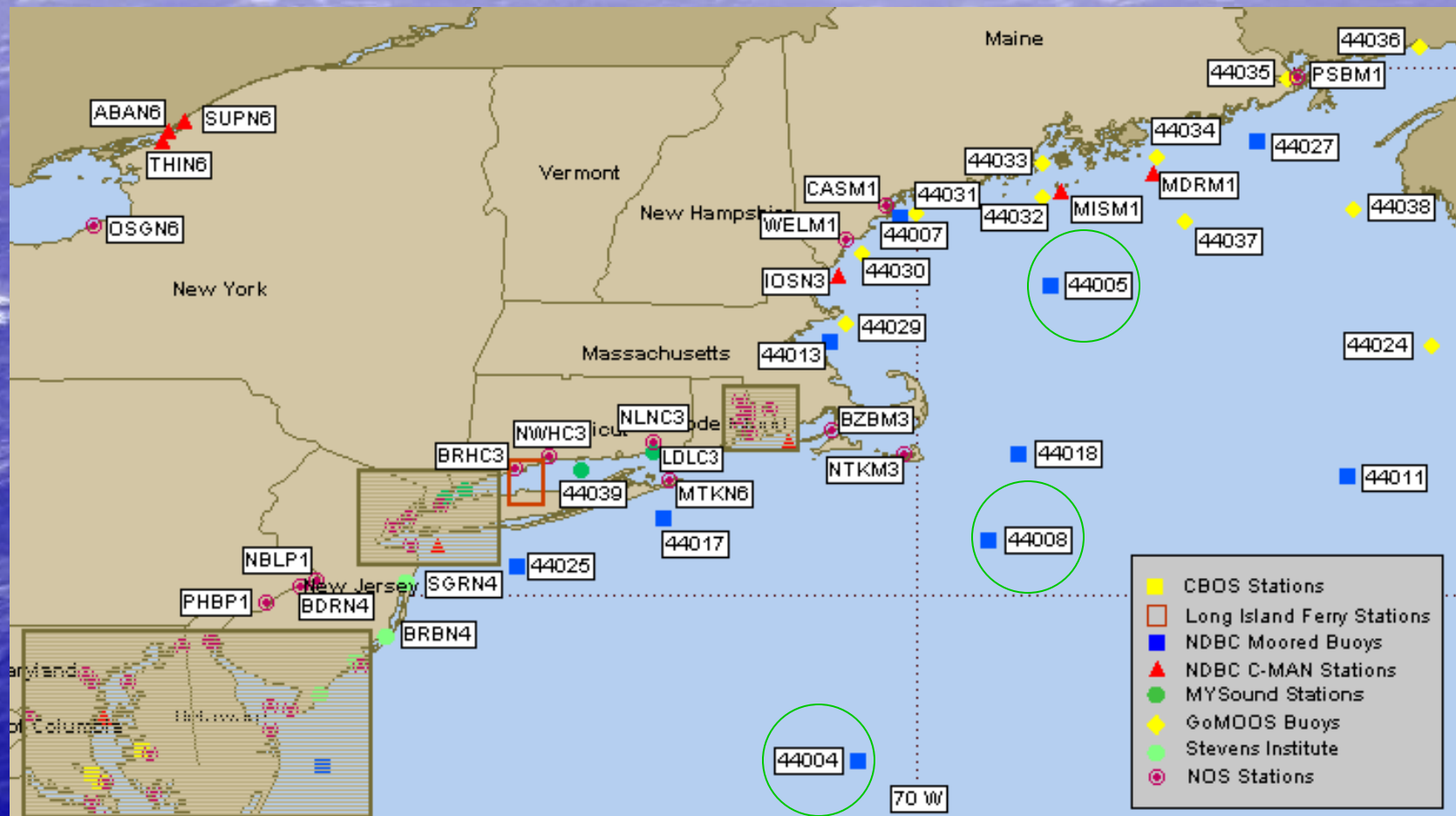
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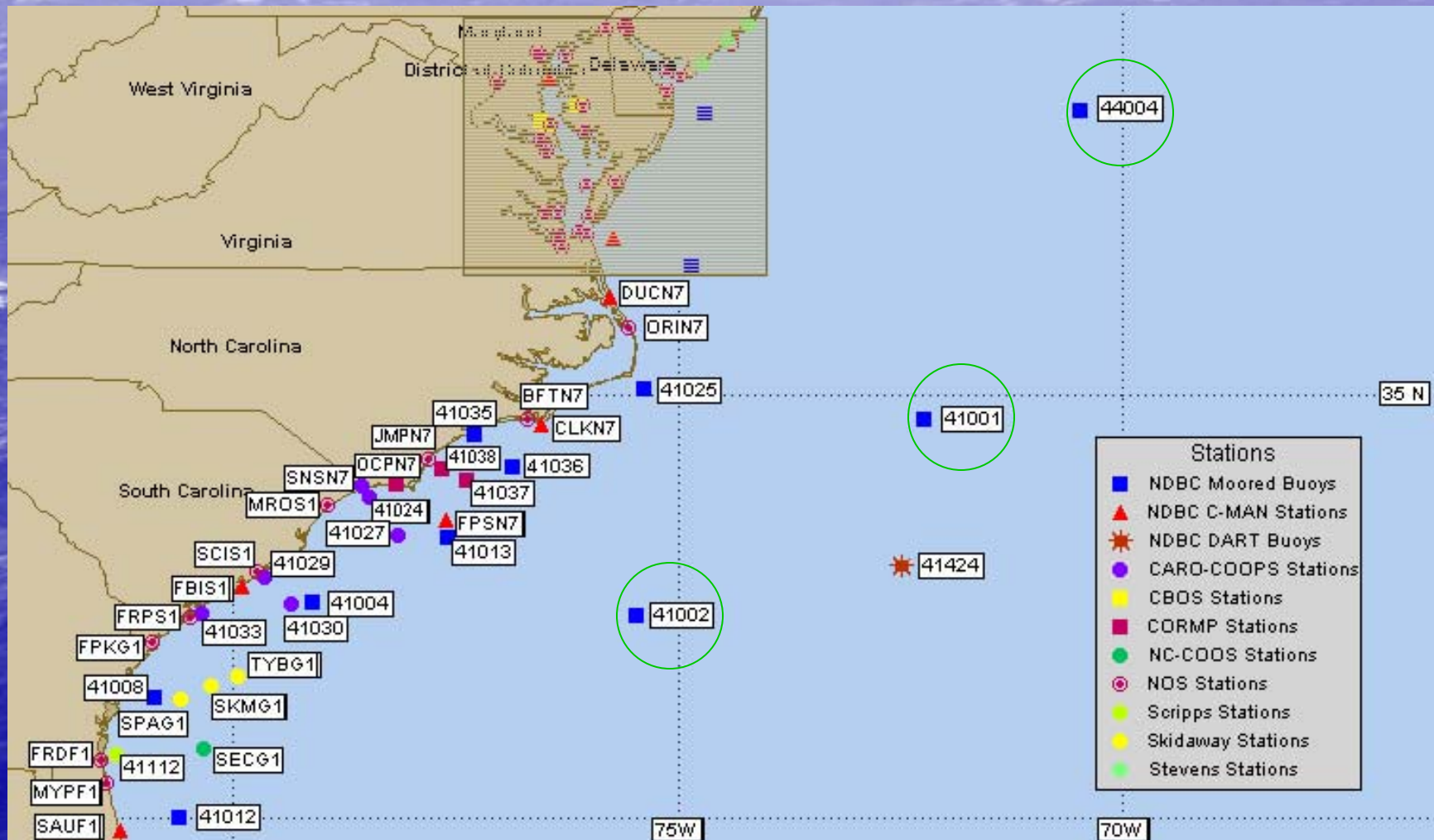
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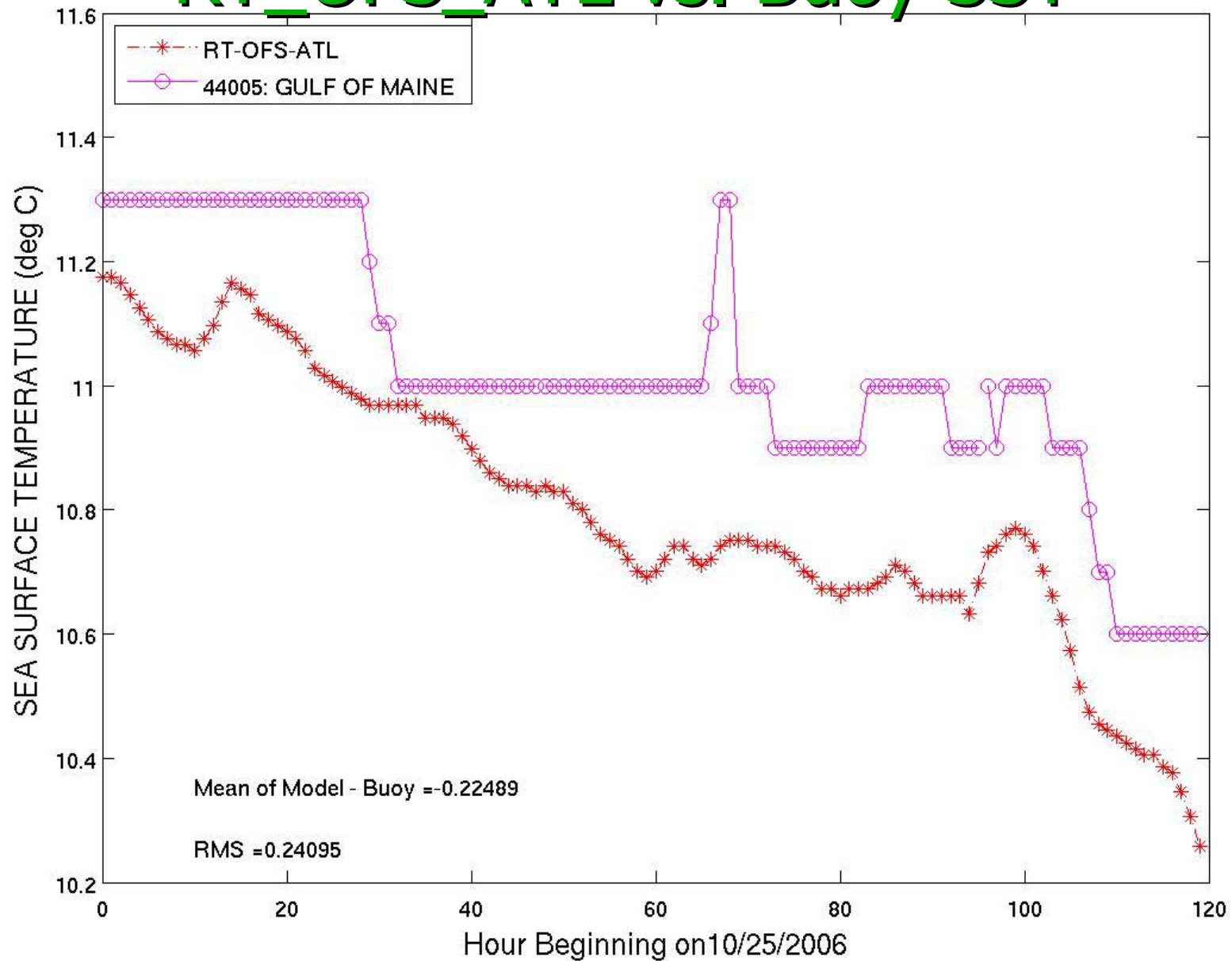
NOAA OFFSHORE BUOYS



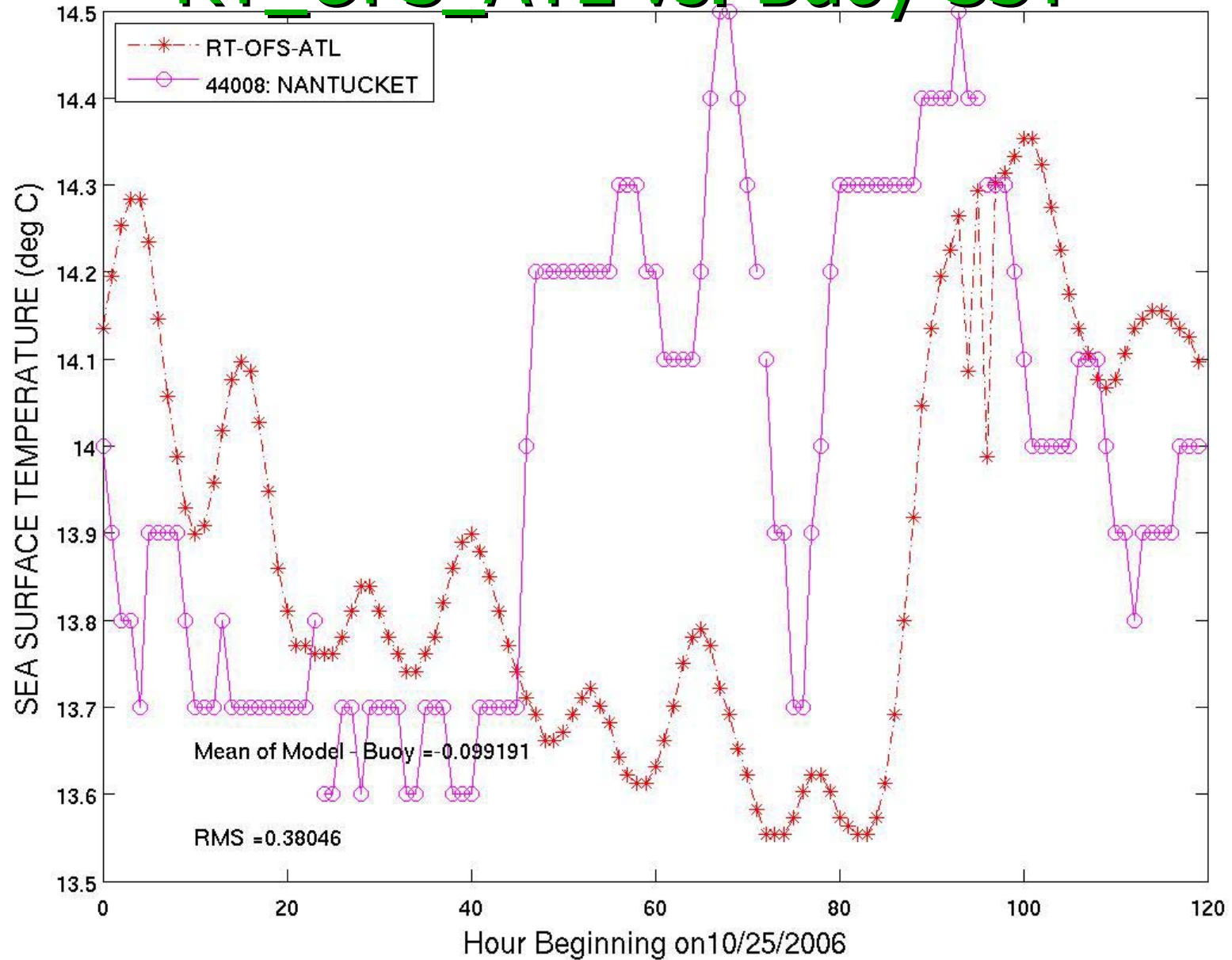
NOAA OFFSHORE BUOYS



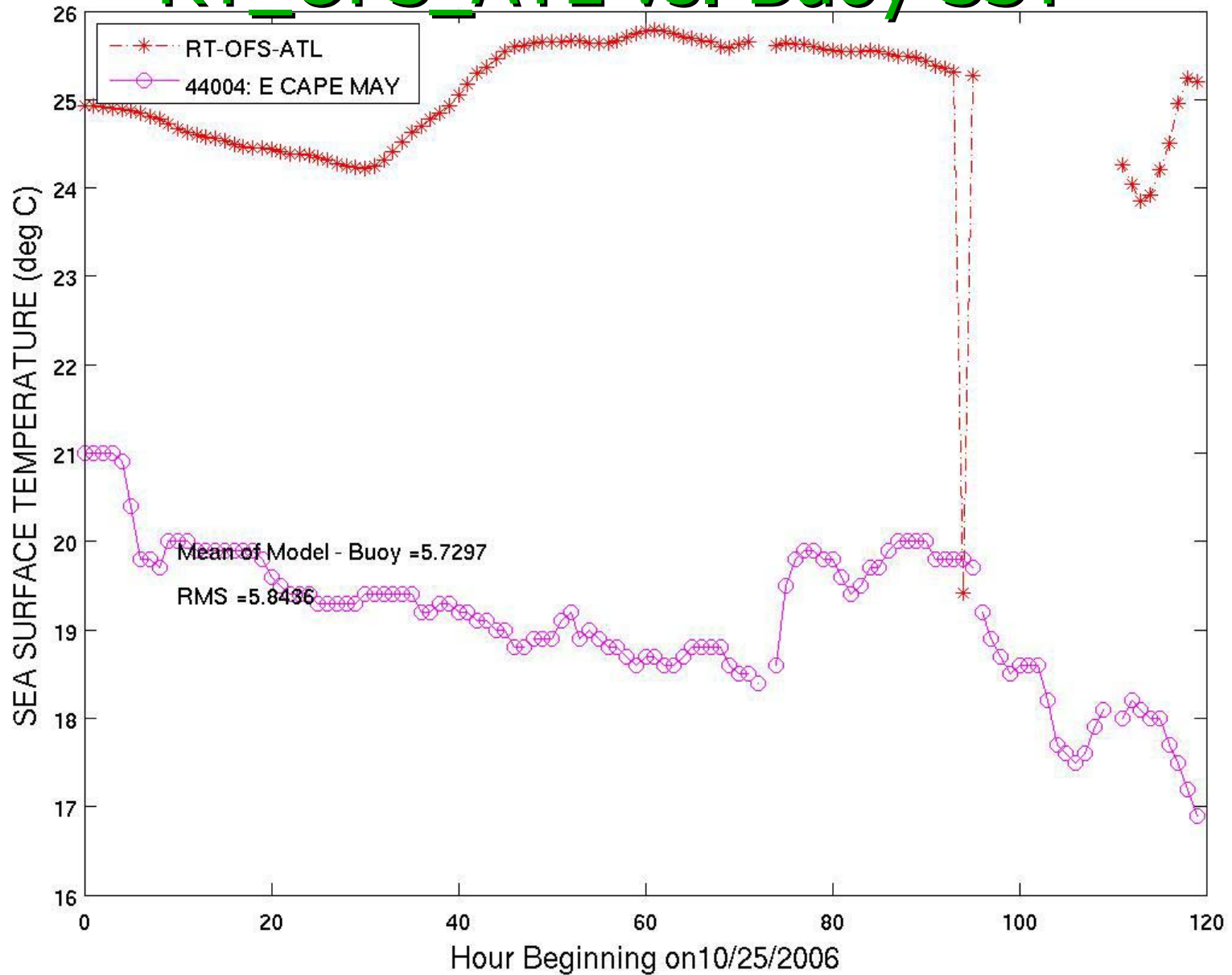
RT_OFS_ATL vs. Buoy SST



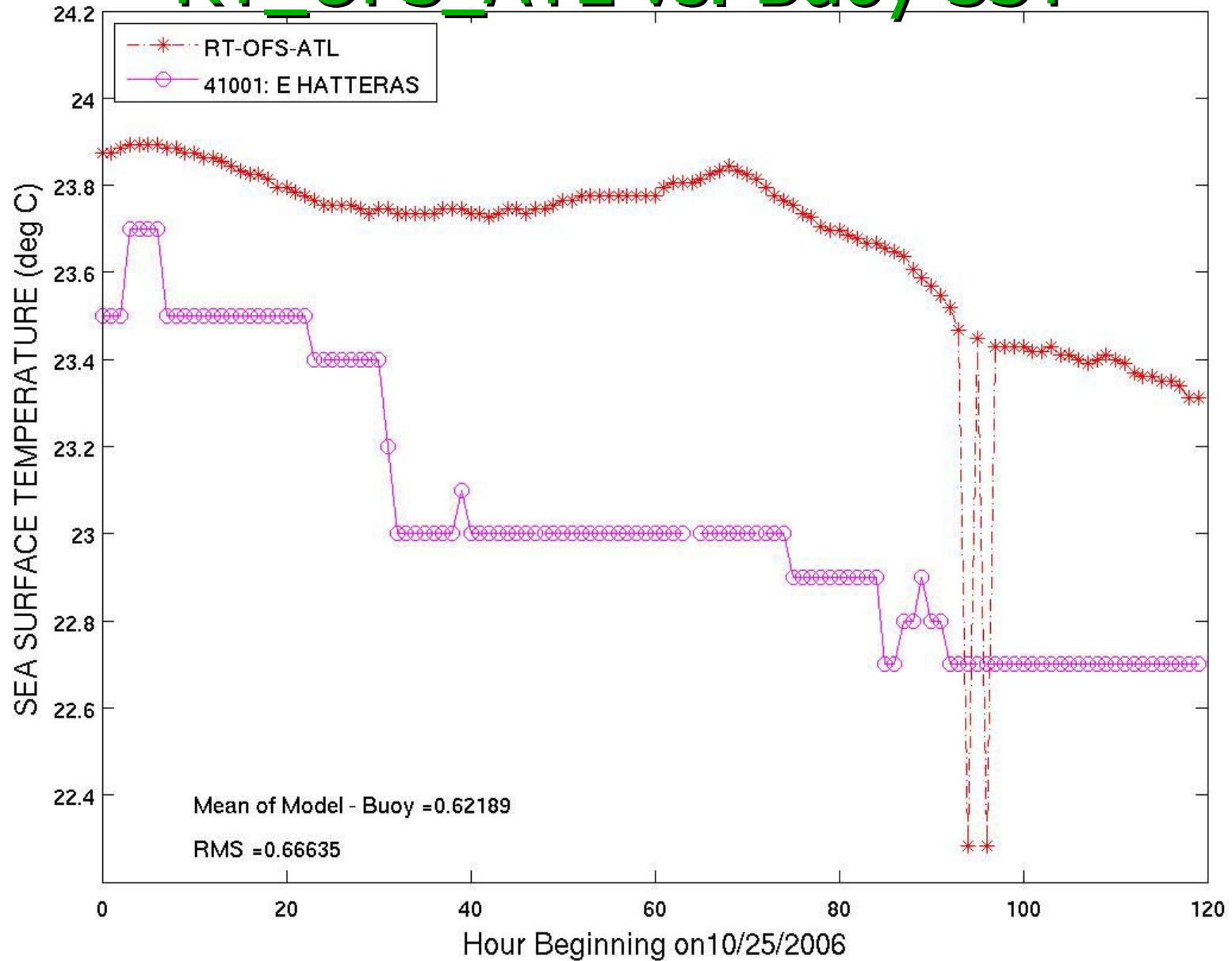
RT_OFS_ATL vs. Buoy SST



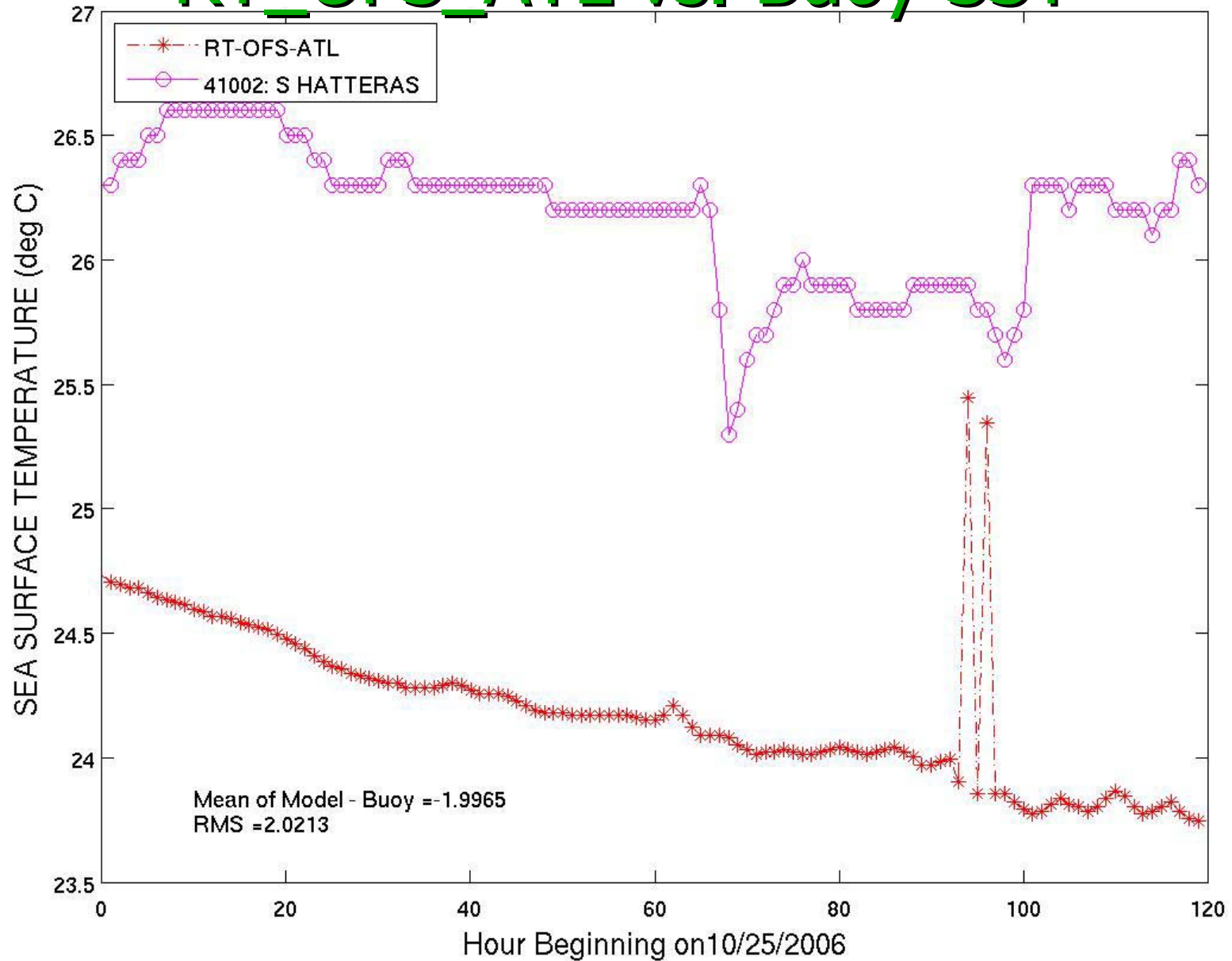
RT_OFS_ATL vs. Buoy SST



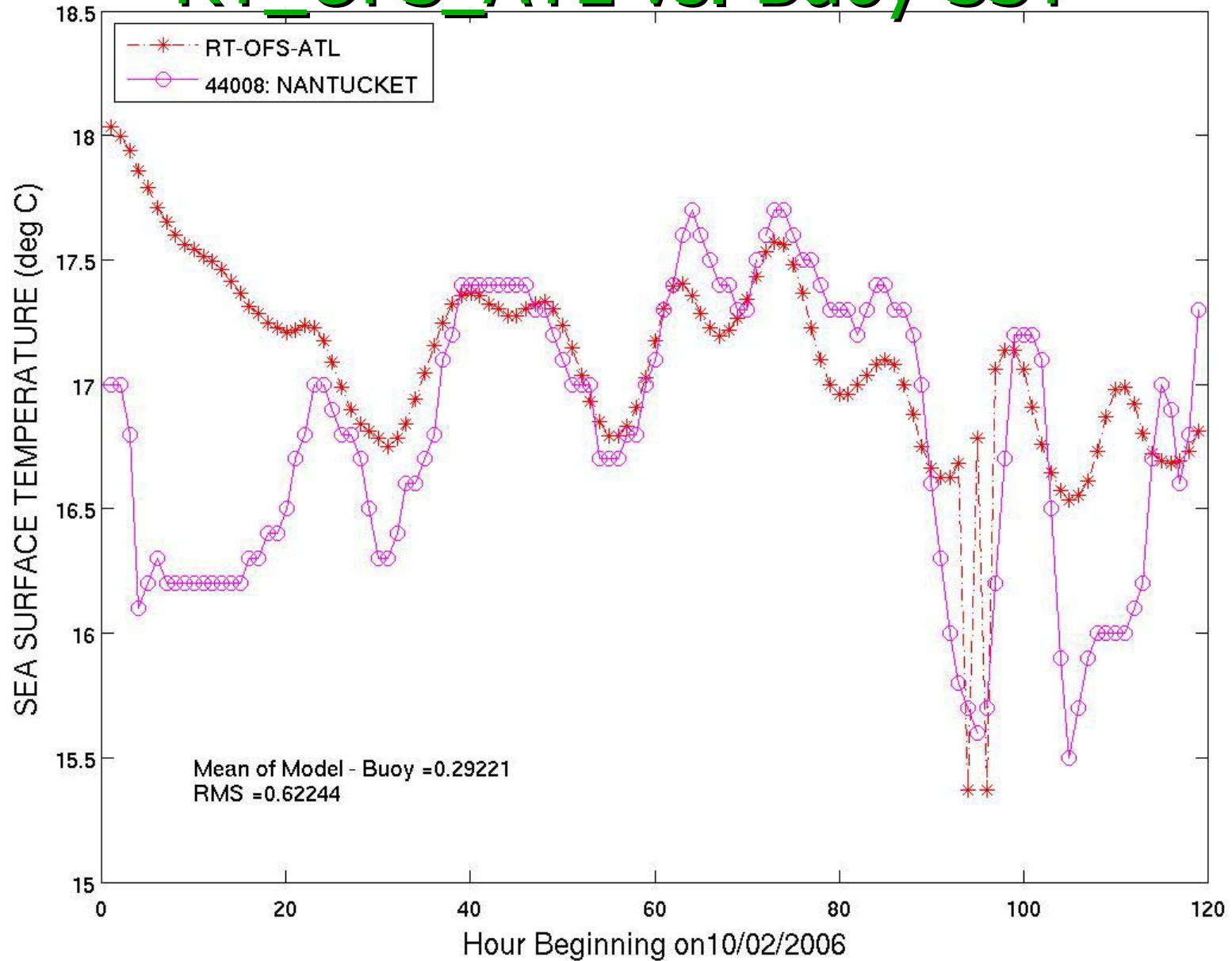
RT_OFS_ATL vs. Buoy SST



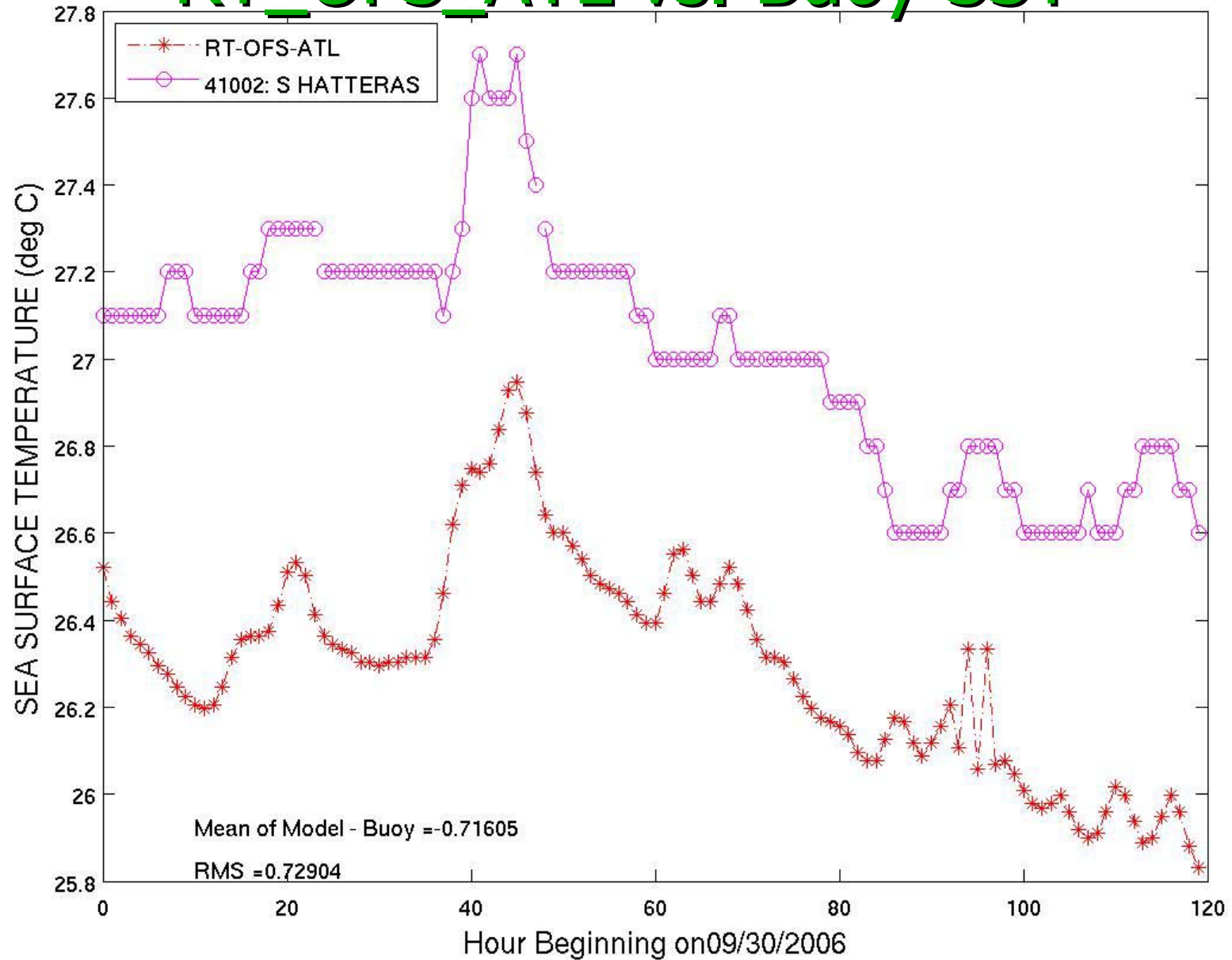
RT_OFS_ATL vs. Buoy SST



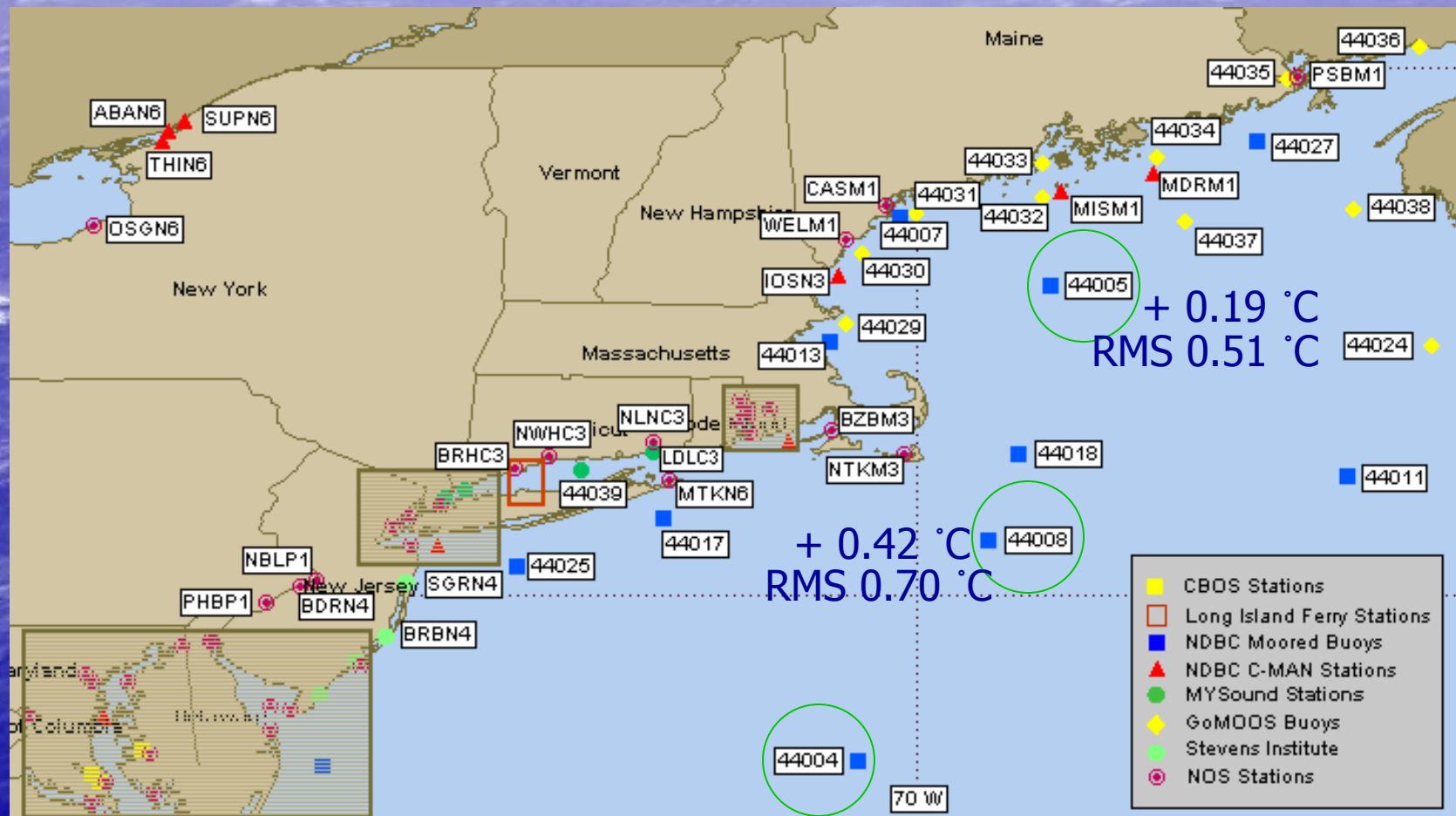
RT_OFS_ATL vs. Buoy SST



RT_OFS_ATL vs. Buoy SST

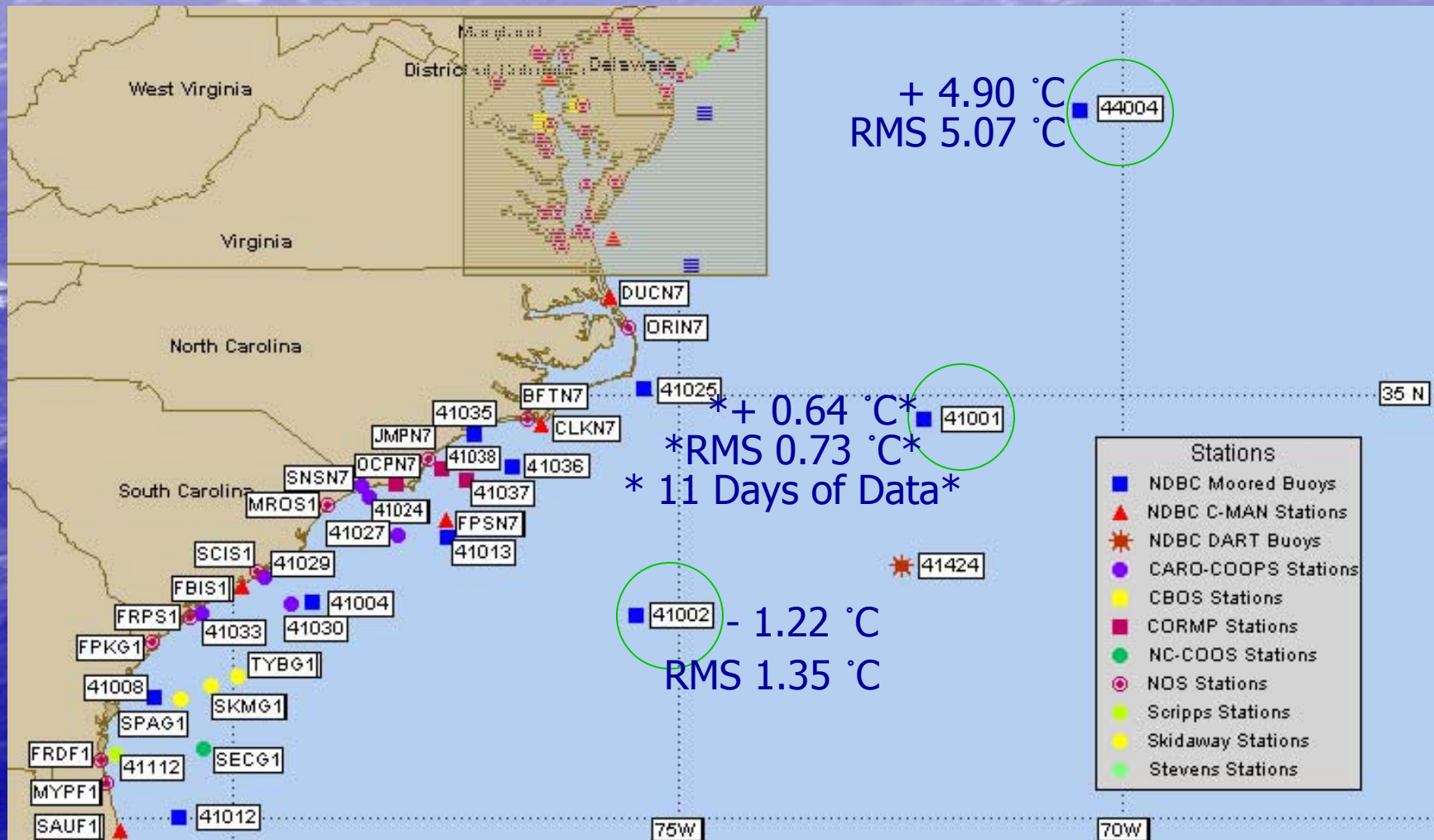



RT_OFS_ATL vs. Buoy SST October Average Differences



RT_OFS_ATL vs. Buoy SST

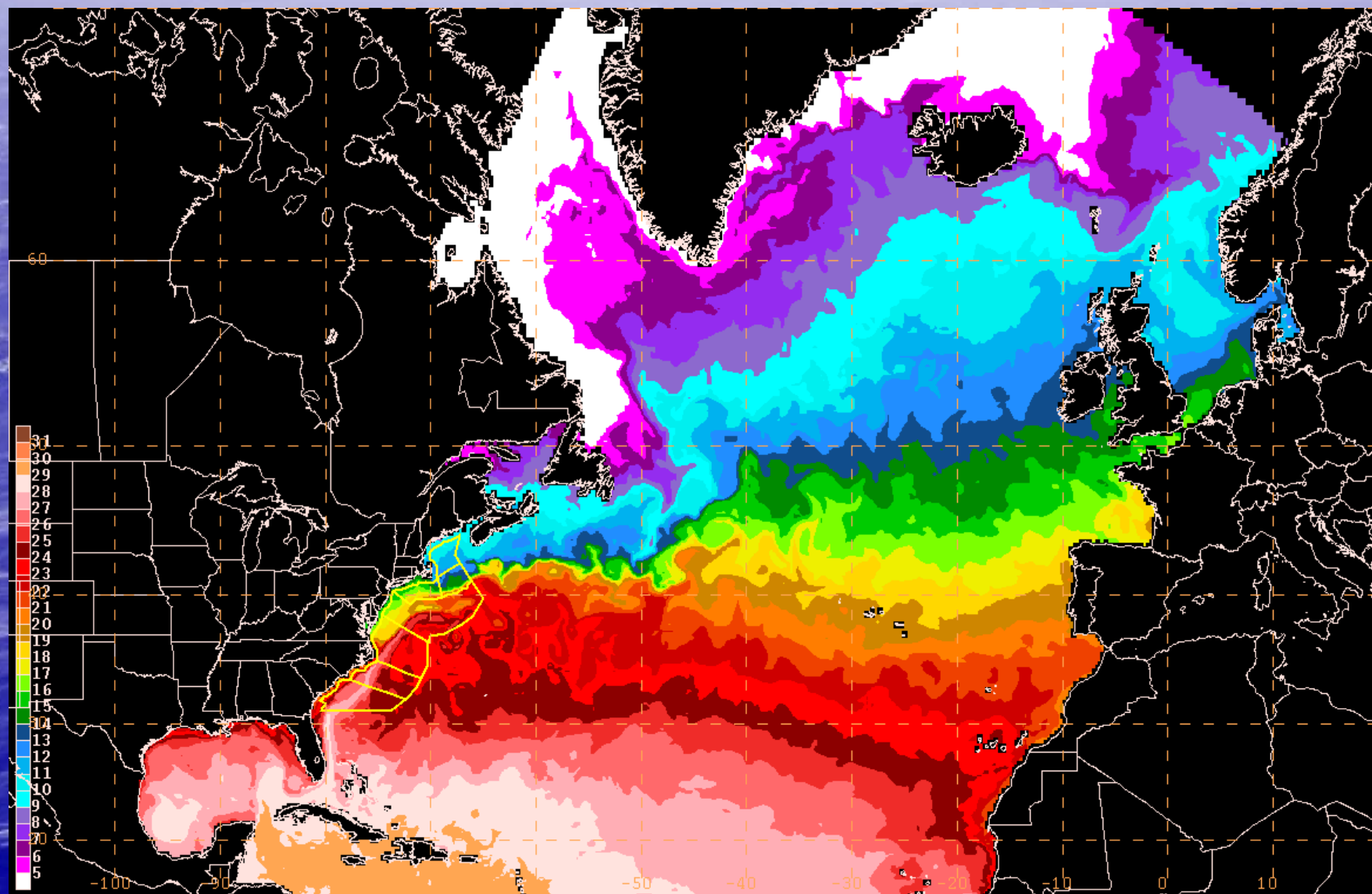
Average Differences



An aerial photograph of a vast, deep blue ocean with white-capped waves under a clear sky. The text "Displays and Capabilities" is overlaid in the center in a white, bold, sans-serif font.

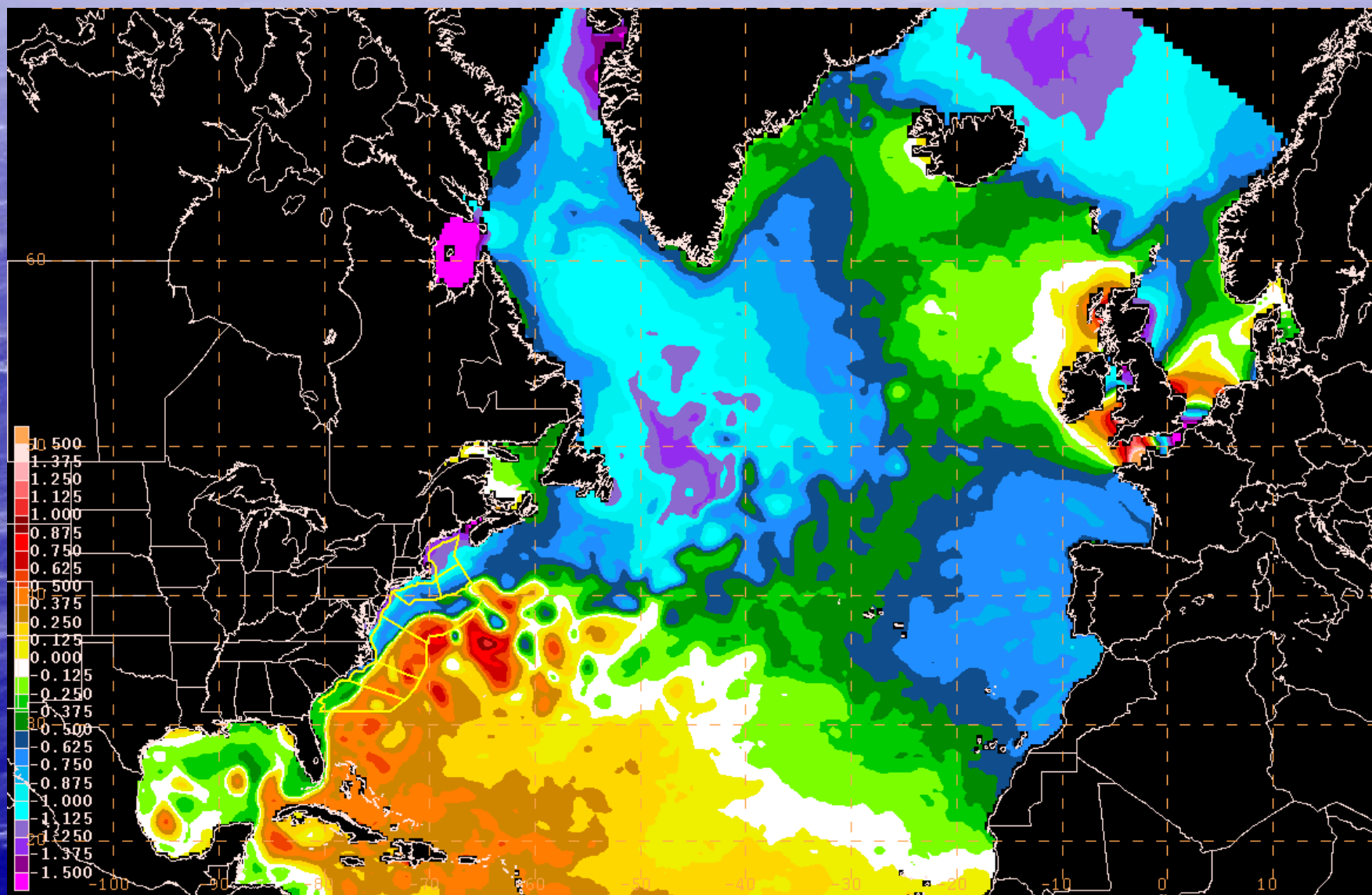
Displays and Capabilities

RT_OFS_ATL Whole Model SST



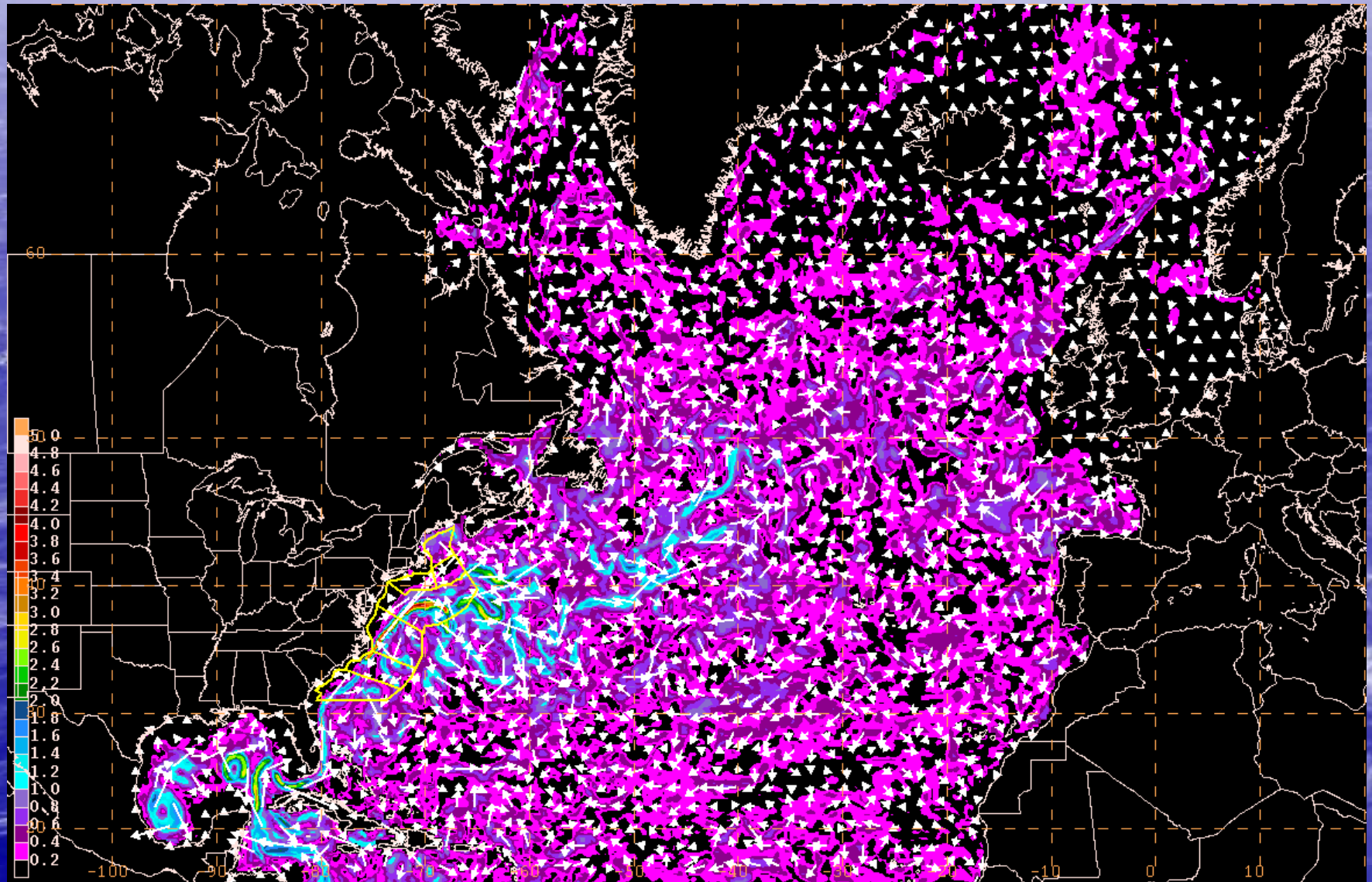
HYCOM_NATL 061031/0000V000 HYCOM Surface Temperature (C)

RT_OFS_ATL Whole Model SSH



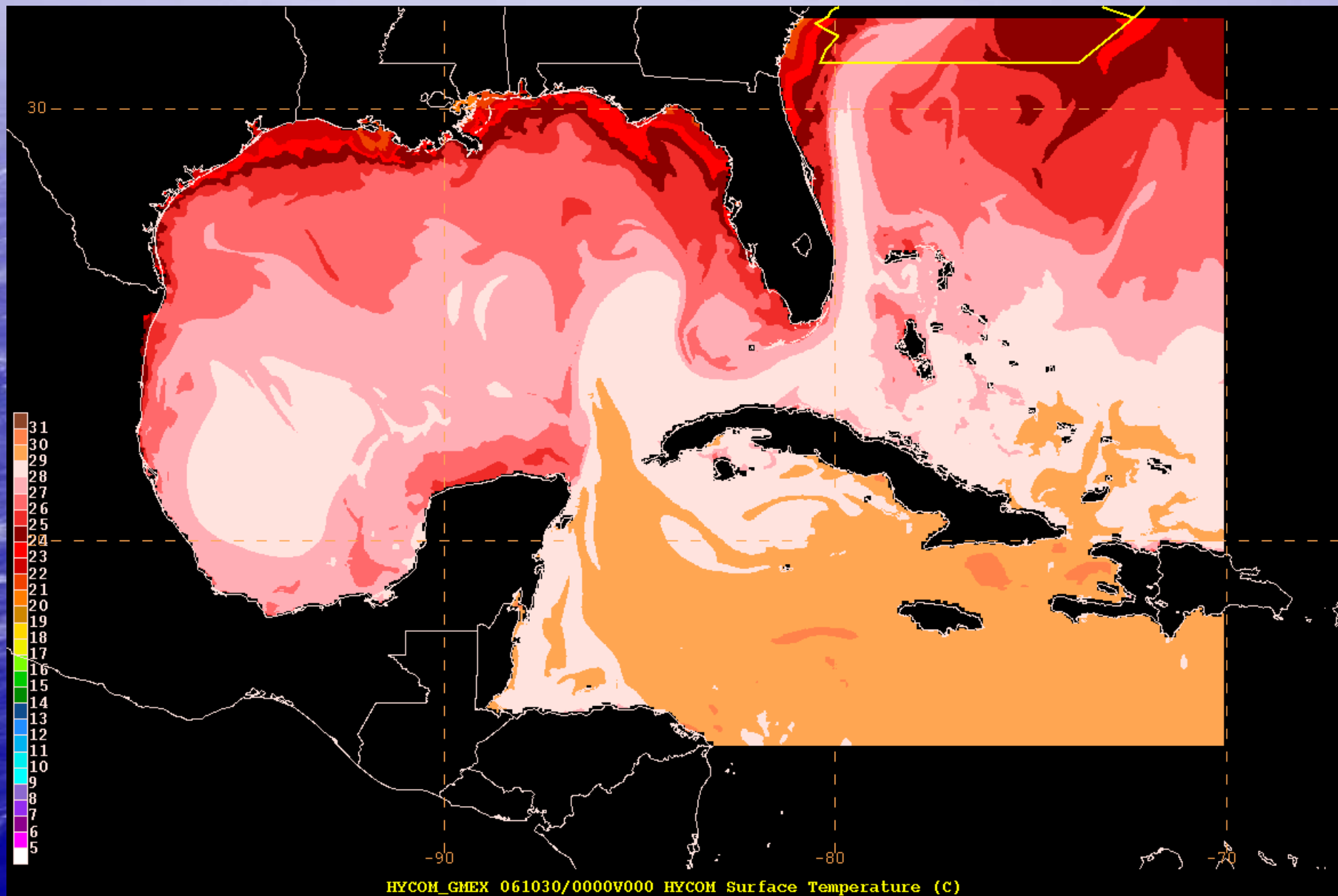
HYCOM_WATL 061030/0000V000 HYCOM Surface Height (m)

RT_OFS_ATL Whole Model Currents

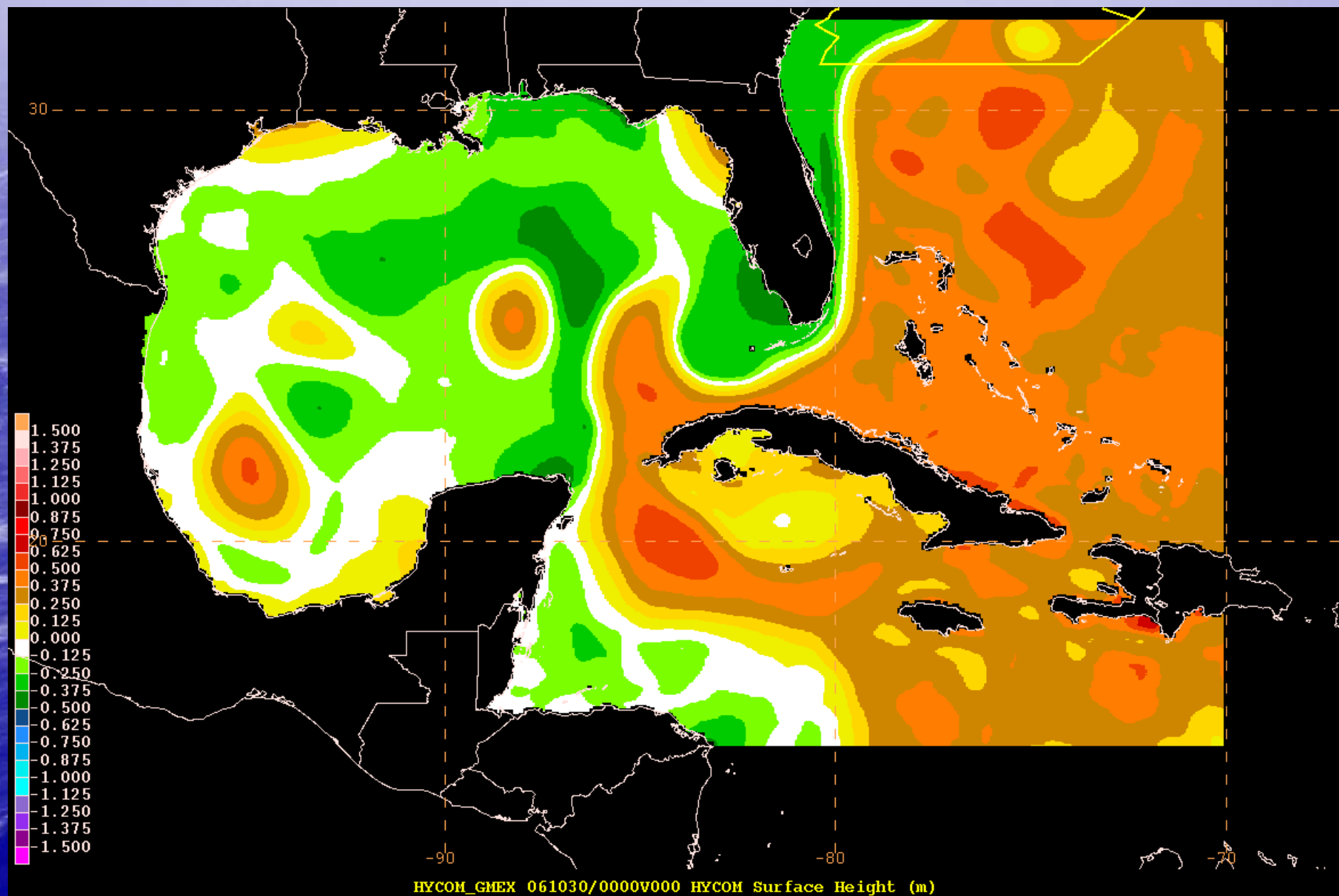


HYCOM_WATL 061030/0000V000 HYCOM Surface Currents (KTs)

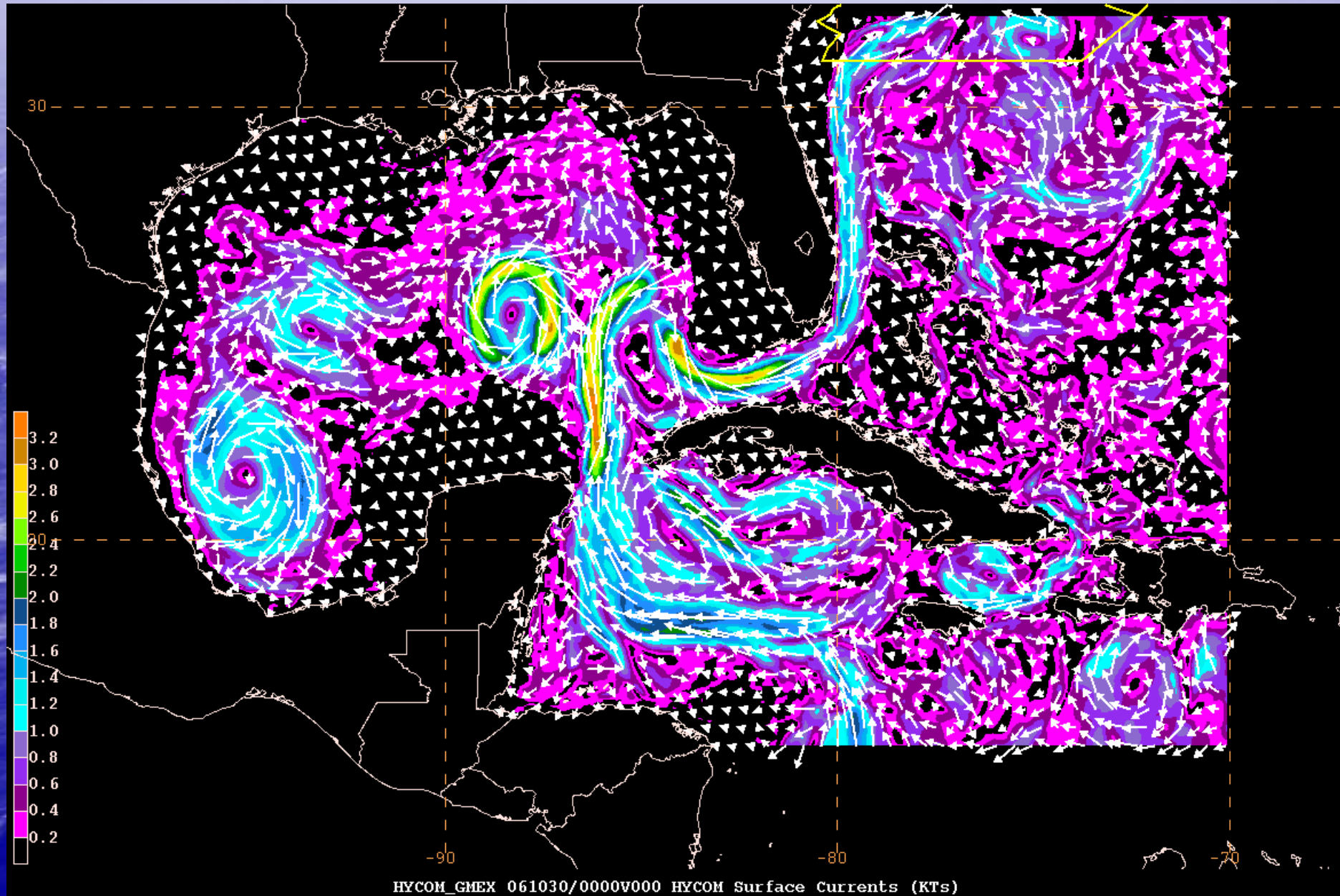
RT_OFS_ATL Gulf of Mexico SST



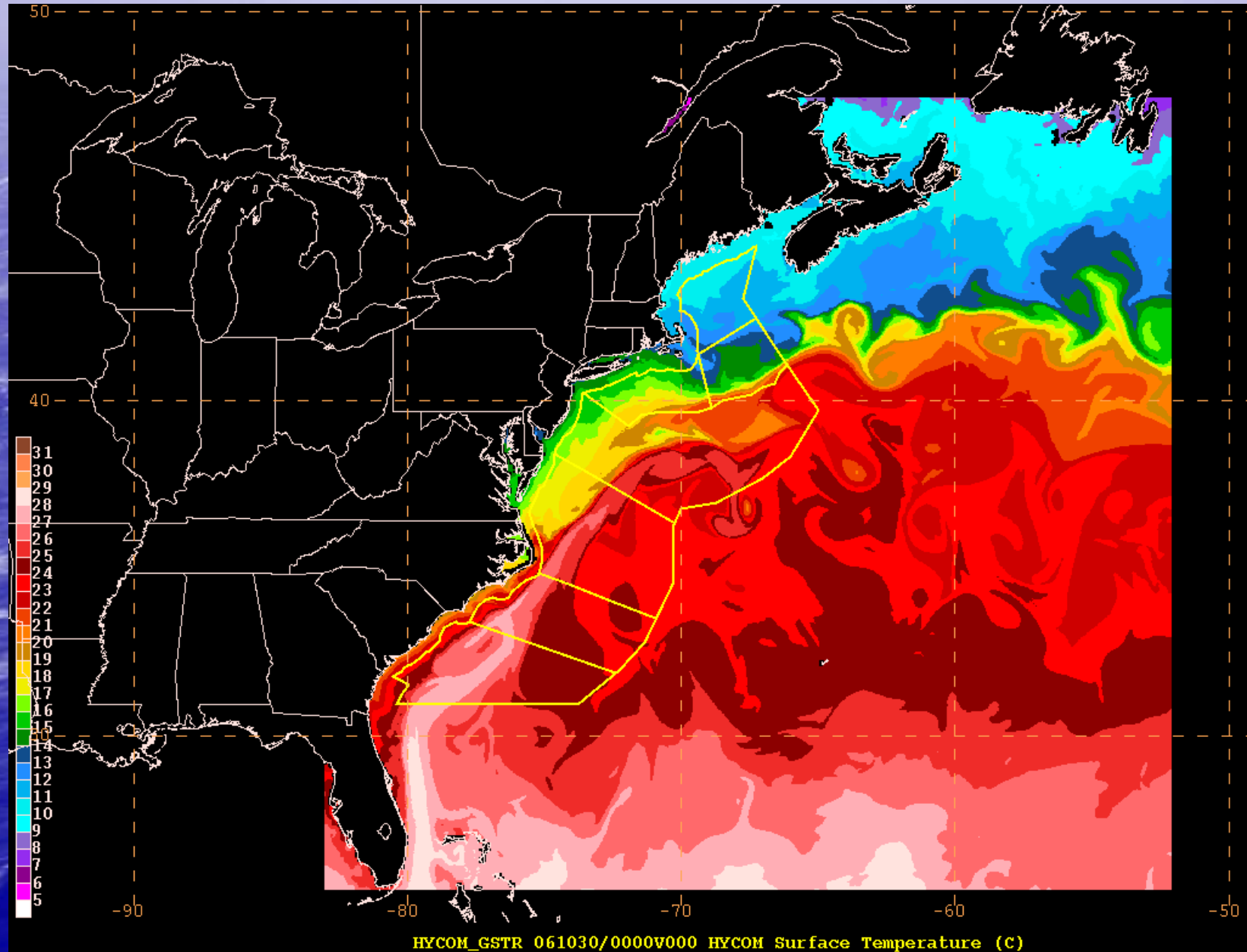
RT_OFS_ATL Gulf of Mexico SSH



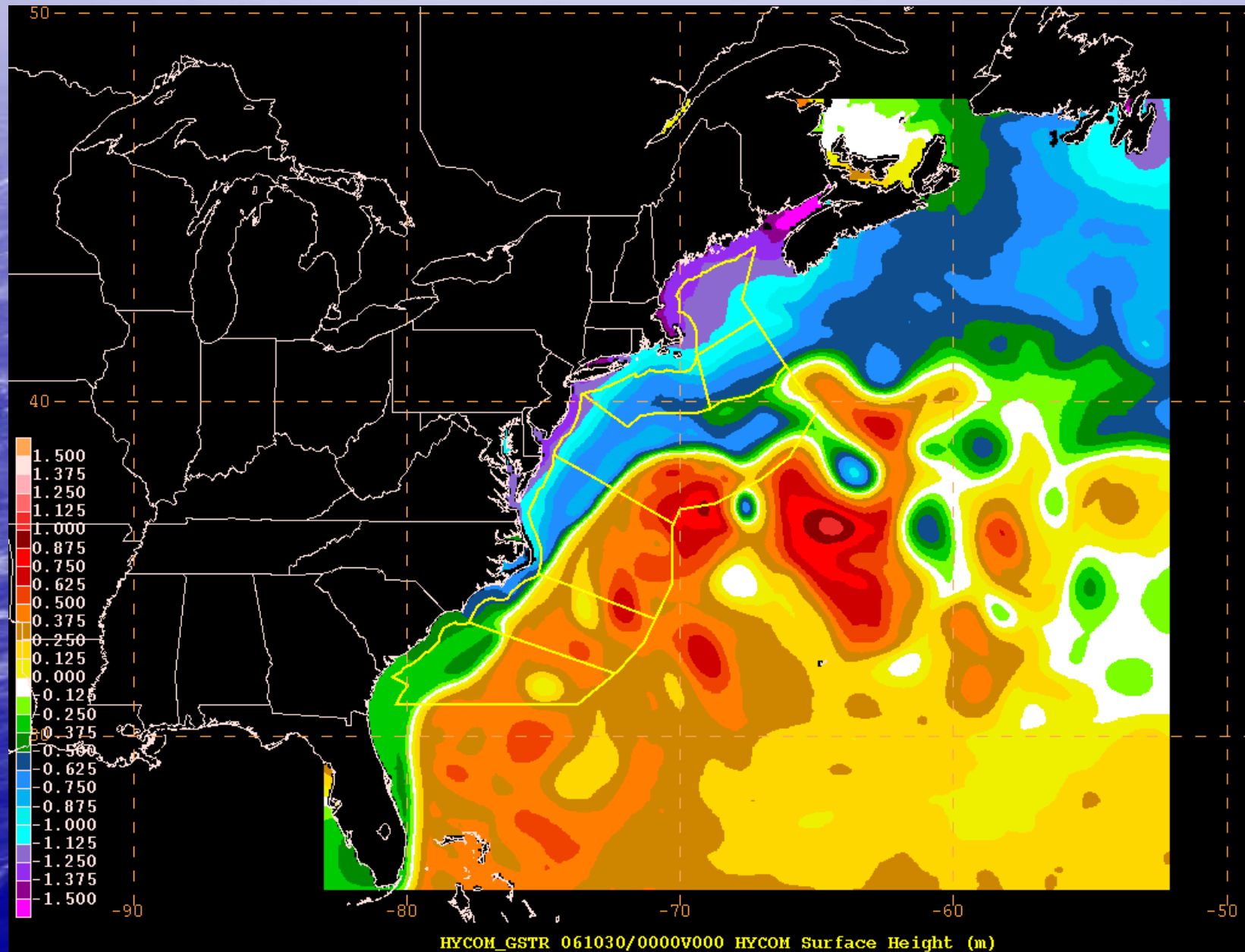
RT_OFS_ATL Gulf of Mexico Currents



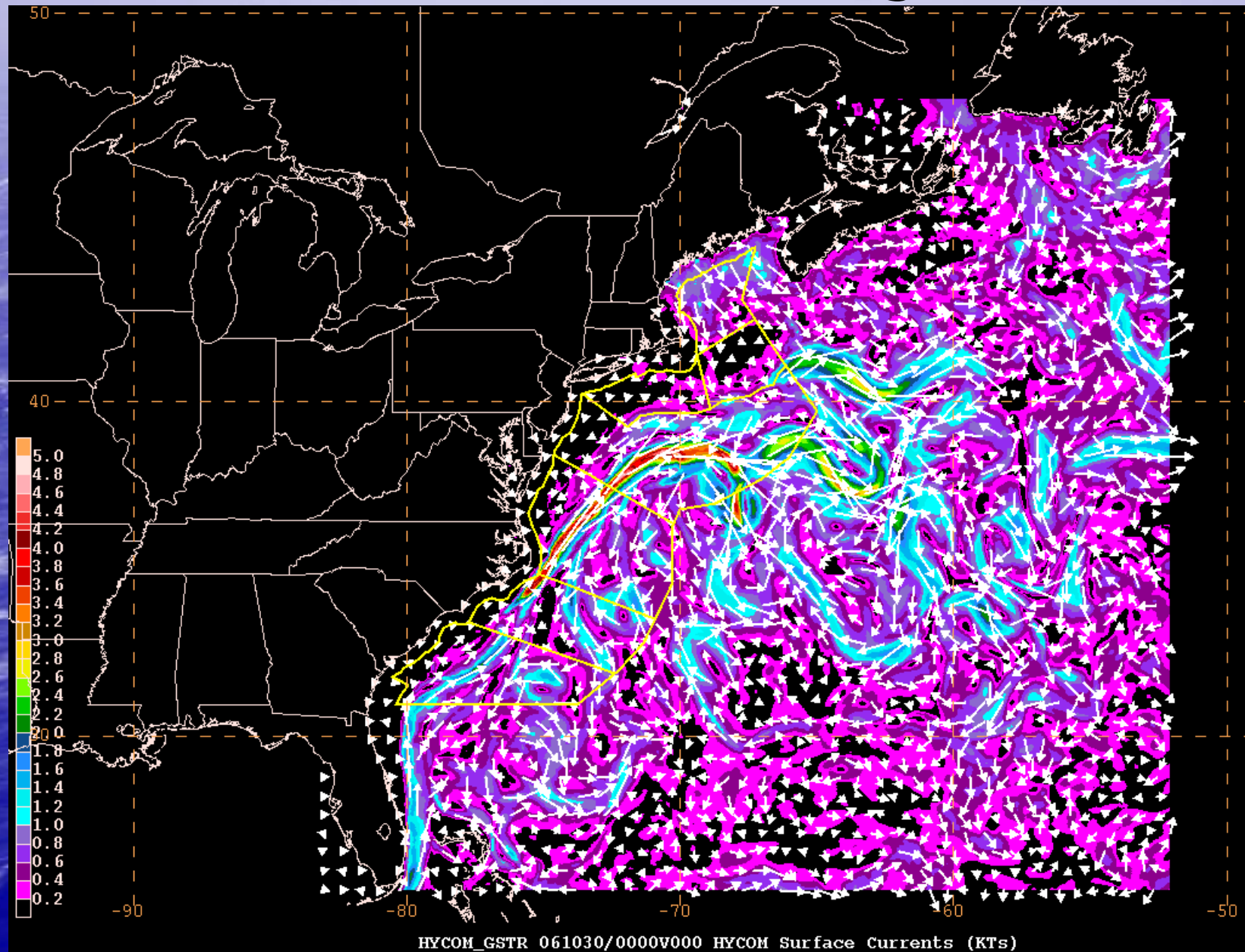
RT_OFS_ATL Gulf Stream Region SST



RT_OFS_ATL Gulf Stream Region SSH



RT_OFS_ATL Gulf Stream Region Currents



Future Plans

- Compare RT_OFS_ATL with AVHRR and GHR-SST
- Develop more displays for Forecasters:
 - Temperature, Salinity, Horizontal and Vertical Currents down to 200 m
 - Mixed Layer Depth, Upwelling, Downwelling Areas
- OPC Webpage: <http://www.opc.ncep.noaa.gov/>
- Buoys/ RT_OFS_ATL Webpage
http://www.opc.ncep.noaa.gov/mvs/test_mvs.html