

# Ocean Glider Work 2011

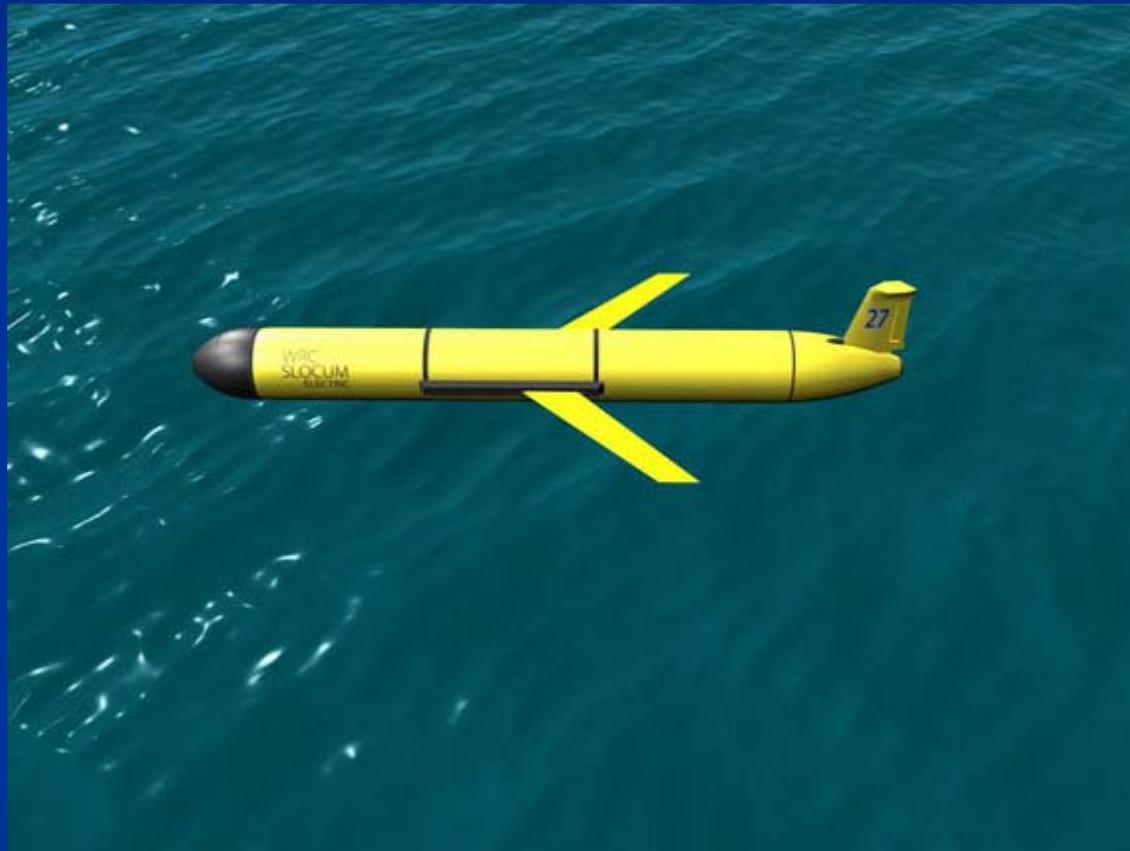
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Monitoring

Presented at: NJ Water Monitoring Council Meeting

September 21, 2011

# Slocum Glider



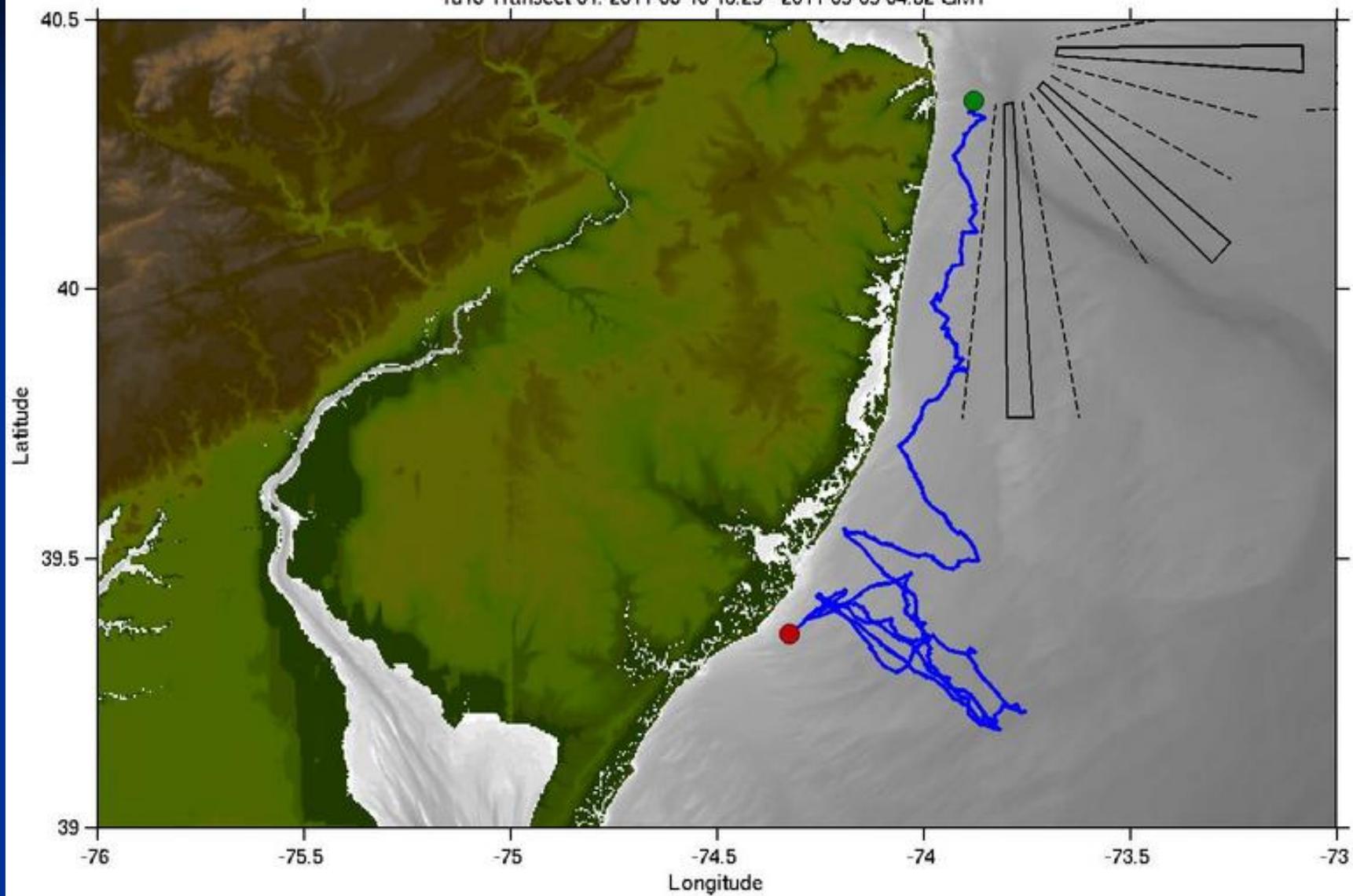
# Summer Work 2011

- A Joint effort with NJDEP, Rutgers U., and USEPA Region 2
- First Glider Deployed 7/13/2011 off of the USEPA Region 2 vessel the Clean Waters
- Went missing within a day and had lost communication.
- Glider was eventually recovered off the Sea Floor after being found by a Monmouth University and Rutgers University side scan sonar mission.
- Glider was hit by a ship and went down.

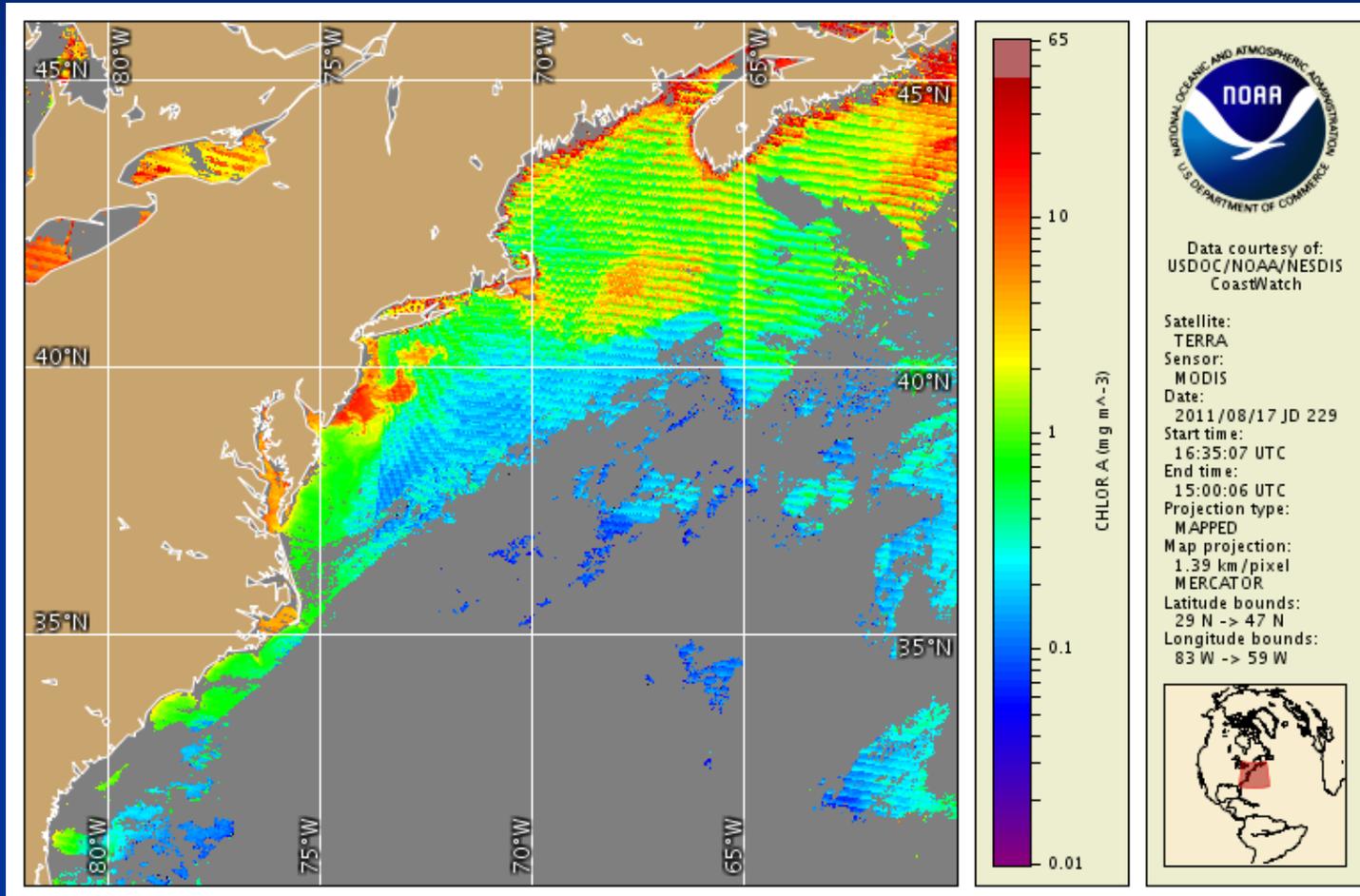
# Summer Work 2011

- A new Glider was deployed (ru16) on 8/10/2011
- Collected Data up to 9/7/2011.
- Collected dissolved oxygen, salinity, and Temperature.
- Was rerouted to stay in a large algal bloom to record Dissolved Oxygen conditions.
- Collected data through Hurricane Irene, can see the mixing due to wave action.

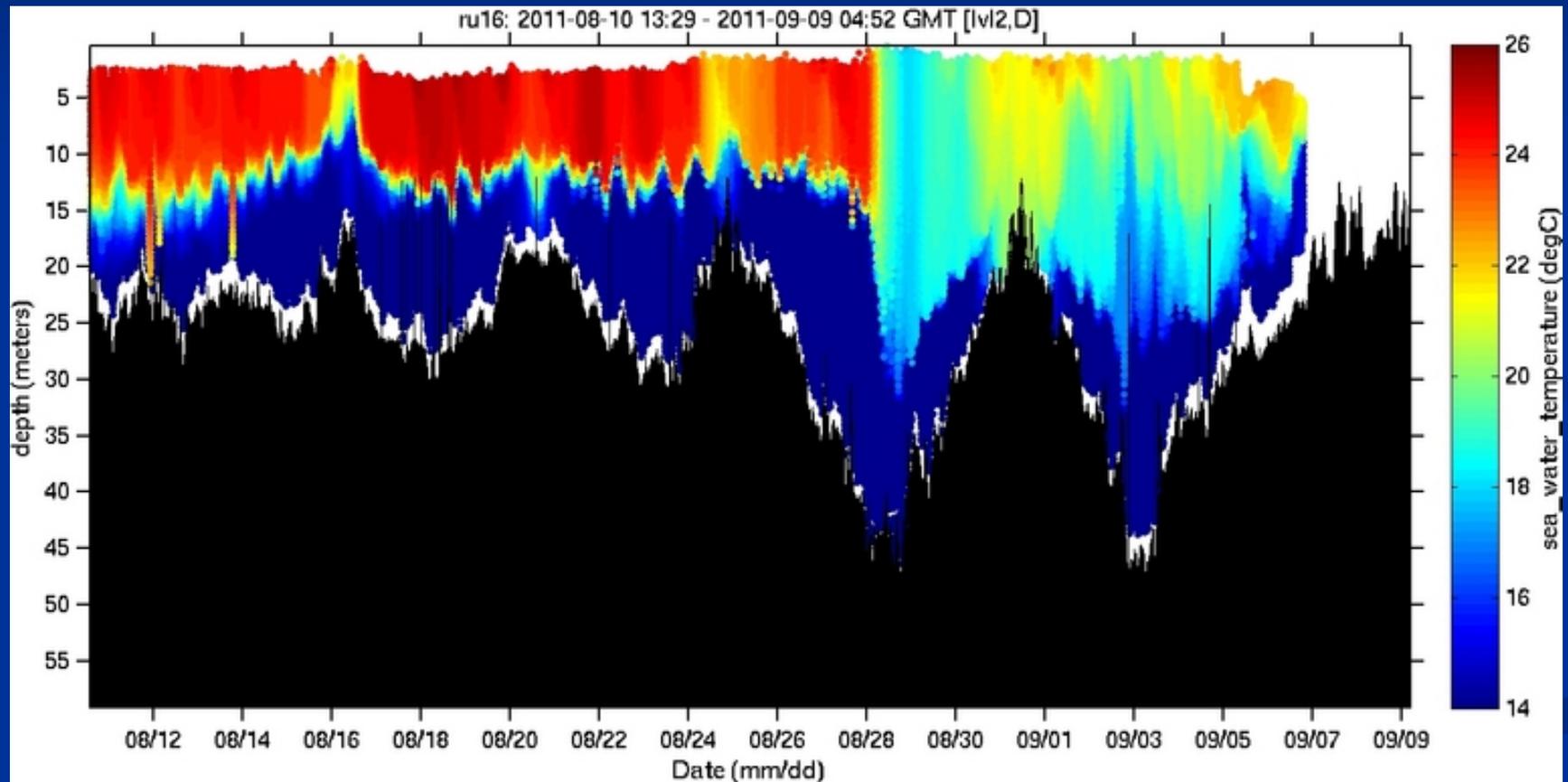
ru16 Transect 01: 2011-08-10 13:29 - 2011-09-09 04:52 GMT



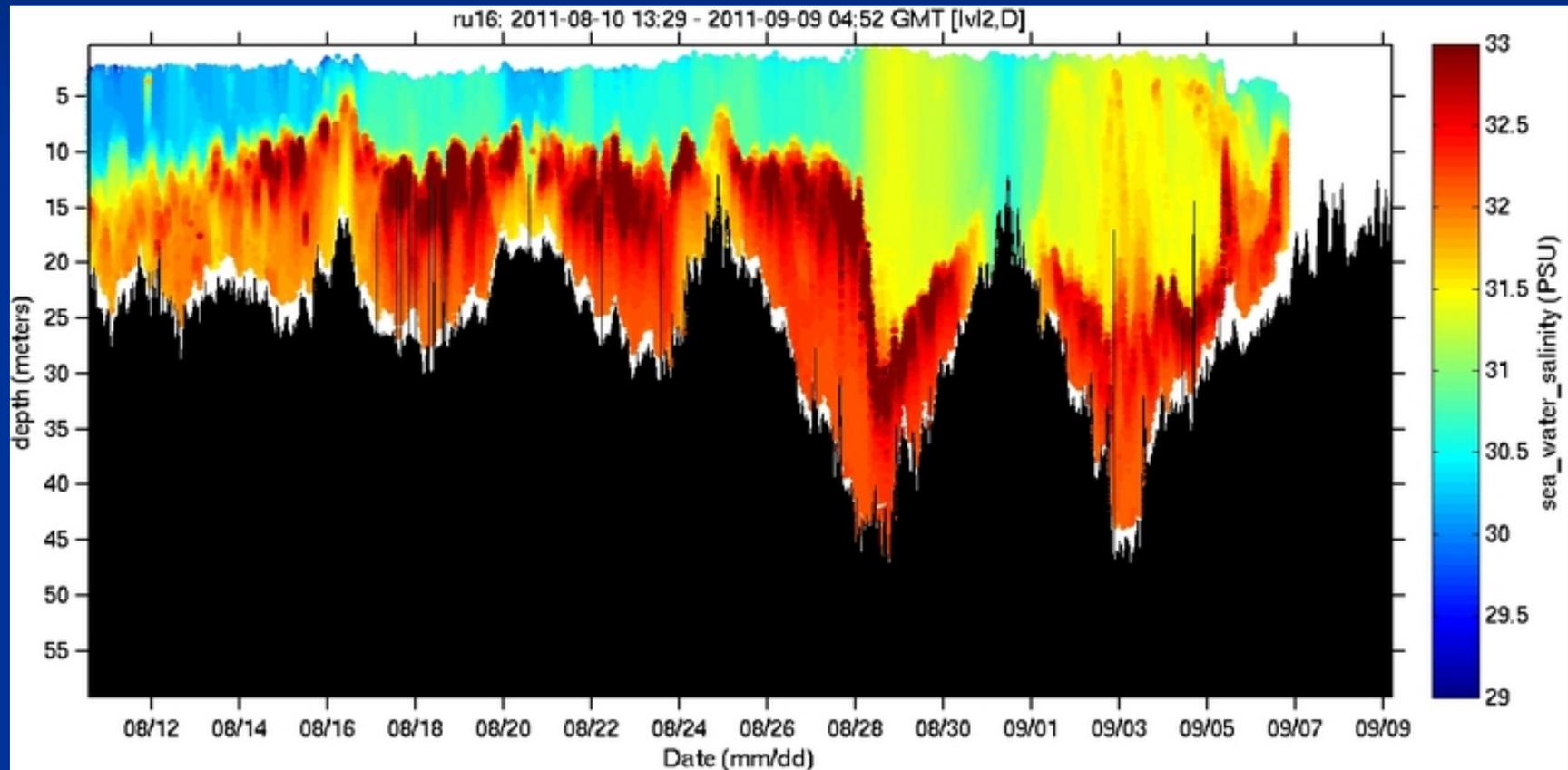
# Algal Bloom



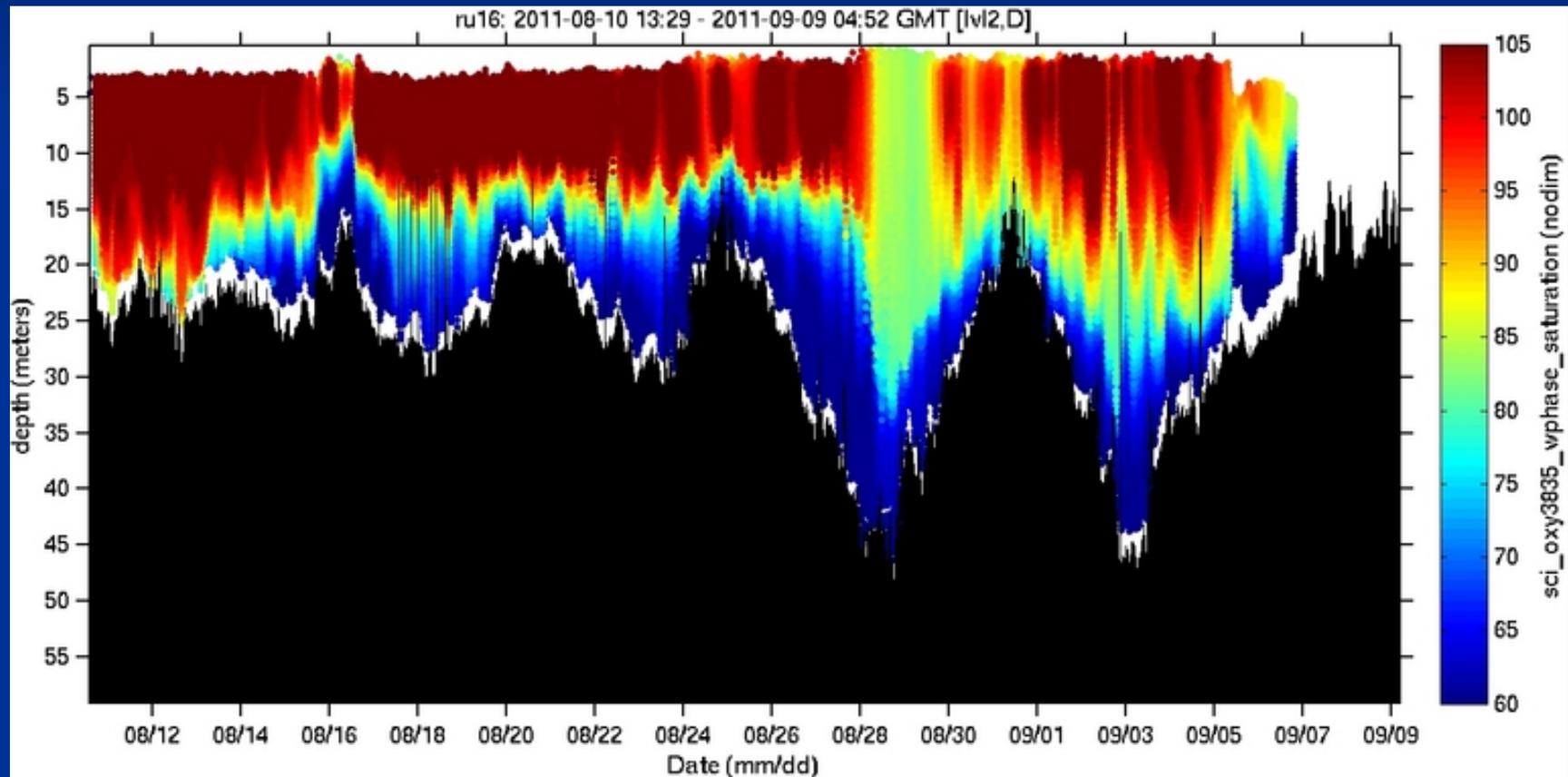
# Temperature



# Salinity



# Oxygen Saturation



# Future Work

- One more deployment being planned for this year.
- Repairs to be made to the recovered ship damaged glider.
- Deployments scheduled for the Summer of 2012.
- Work on how to use and evaluate the data generated from the Glider.