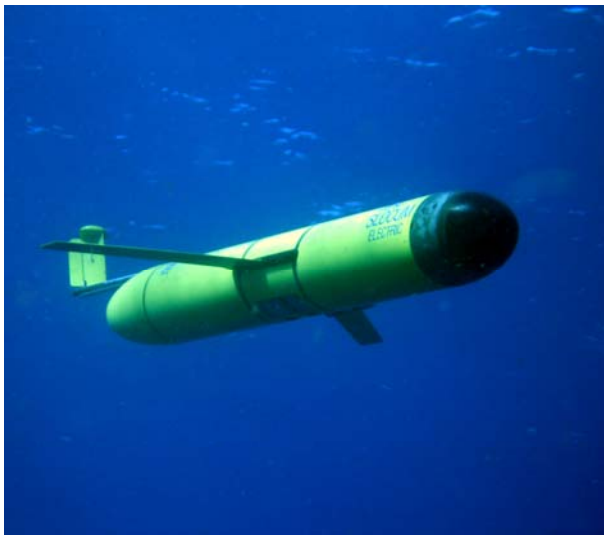
NOAA Cooperative Institute
for Ocean Exploration, Research and Technology
University of North Carolina Wilmington



The NOAA Cooperative Institute for Ocean Exploration, Research and Technology at the University of North Carolina Wilmington operates a Slocum-Class underwater glider made by Teledyne Webb Research of East Falmouth, MA. The glider is an autonomous underwater vehicle (AUV) designed for extended duration mission to depths of 100 meters. The AUV travels in a saw-tooth profile while following programmed transects. Satellite telemetry reports vehicle status, position, and a sample of recorded sensor data for quality control. Complete data files are retrieved and archived following glider recovery.

Vehicle Specifications:

- **Weight**: 52 kg
- **Size**: 1.5 m long; 21 cm in diameter
- **Maximum Depth**: 100 meters
- **Typical horizontal speed**: 0.4 m/s
- **Typical vertical speed**: 0.15 m/s
- **Range**: 1,000 km
- **Duration**: 30 days
- **Navigation**: GPS, internal dead reckoning, altimeter
- **Communications**: RF modem, Iridium satellite, ARGOS locator

Science Payload Sensors:

- **Conductivity/Temperature**: SeaBird SBE41CP conductivity/temperature sensor
- **Fluorometer**: WET Labs 3-channel ECO Puck
  - Chlorophyll-*a*
  - Colored dissolved organic matter (CDOM)
  - Fluorescence
  - 600 nm optical backscatter
- **Beam Attenuation**: WET Labs BAM sensor for beam attenuation coefficient *c*
- **Dissolved oxygen**: Aanderaa Optode 3835 0-120% saturation sensor

Glider AUV being prepared for launch.

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