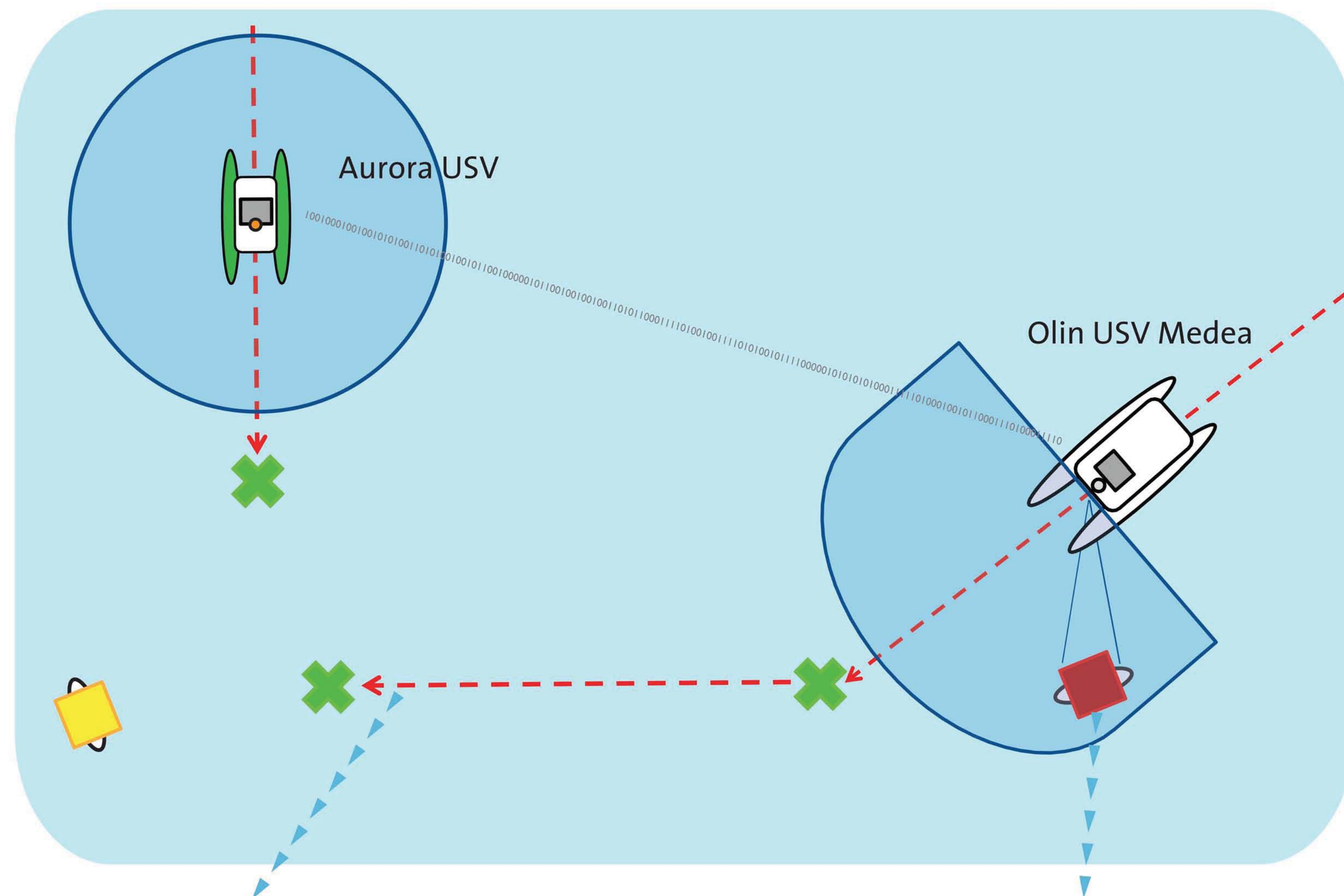# Autonomous Unmanned Surface Vehicle
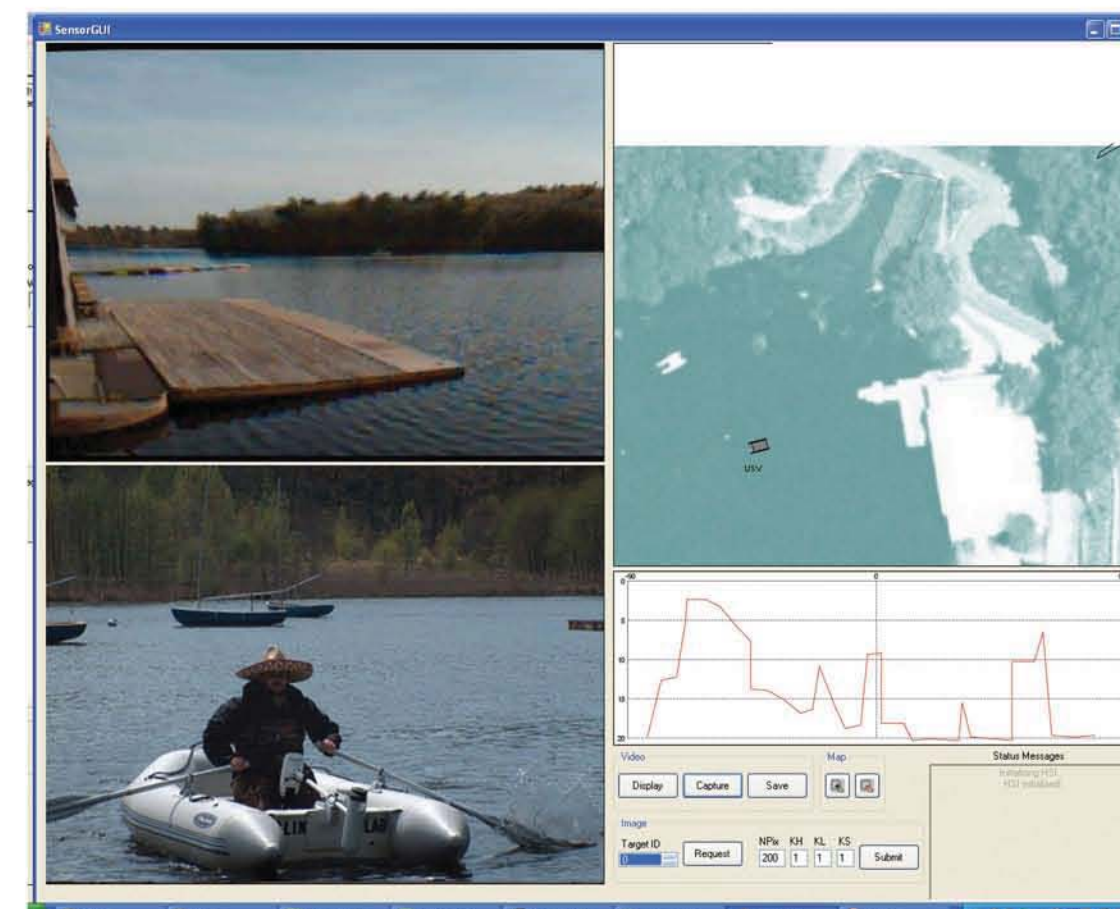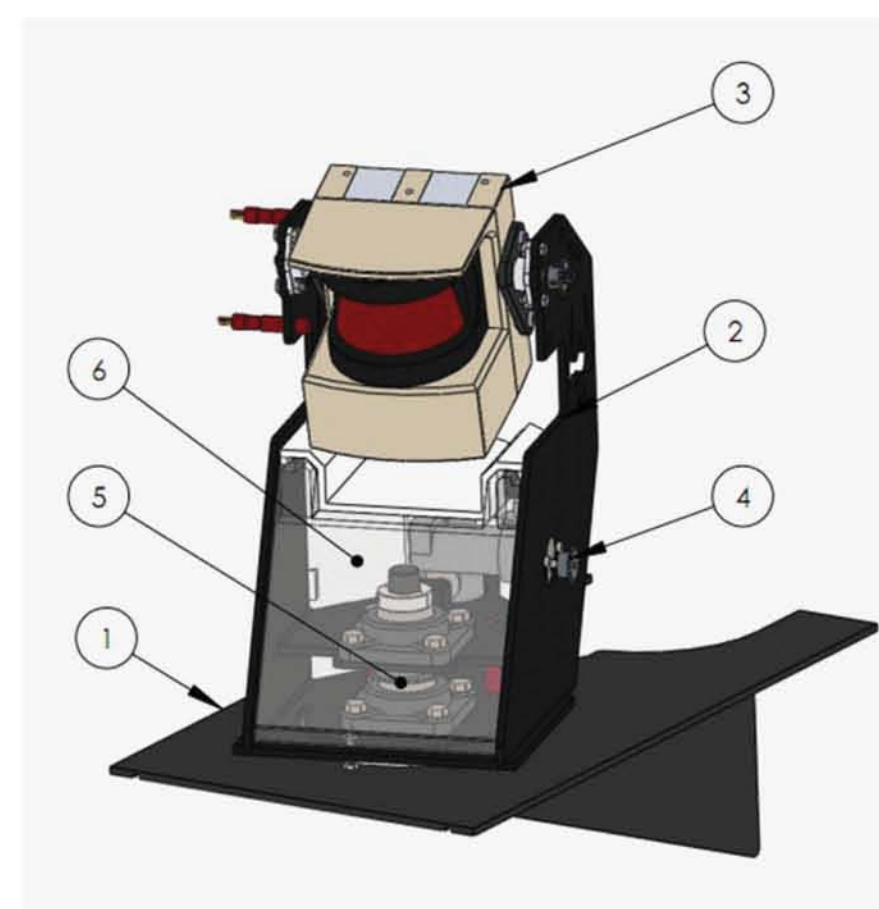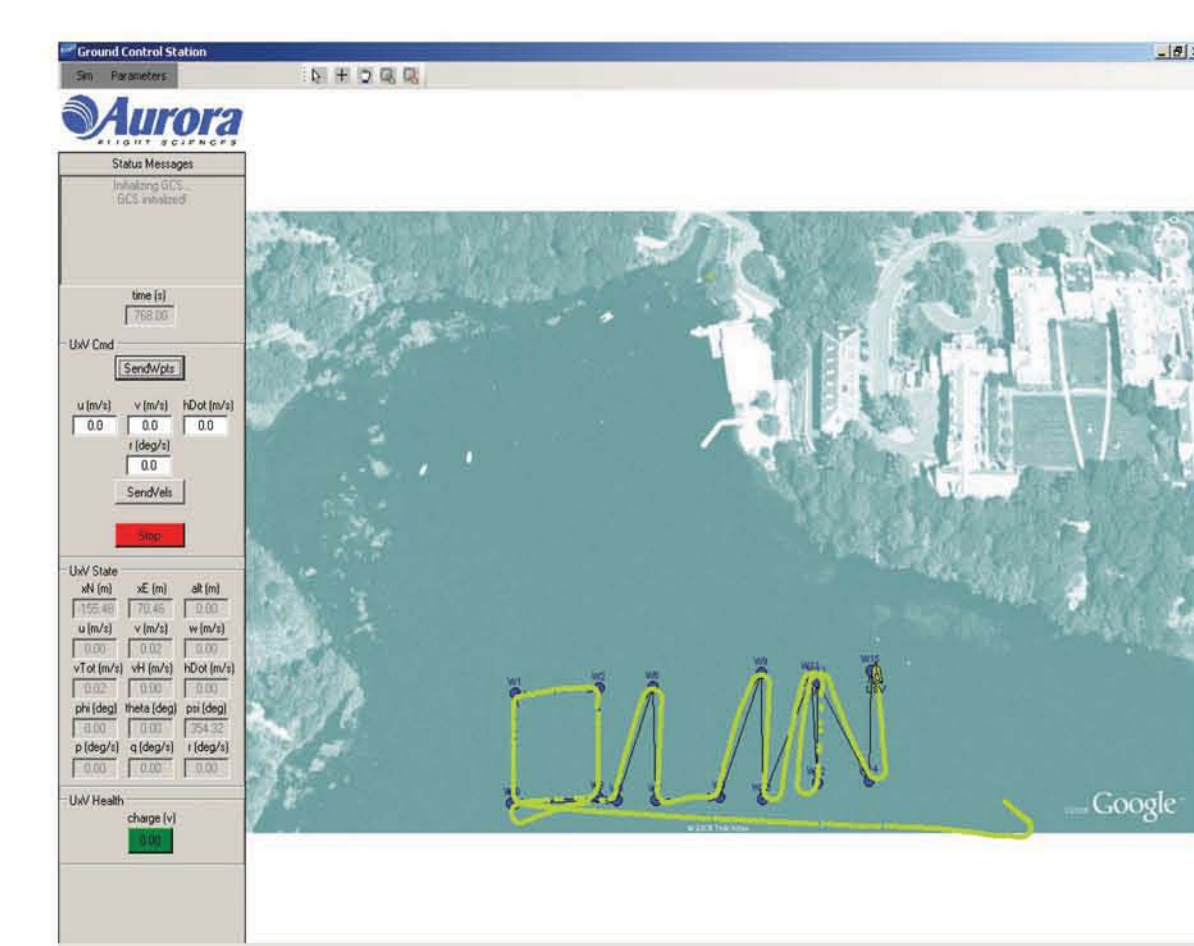
Mission: To build and demonstrate an autonomous unmanned surface vehicle (USV) that uses Aurora Flight Sciences' On-board Planning Module multi-vehicle coordination software to jointly perform a mission with another USV.
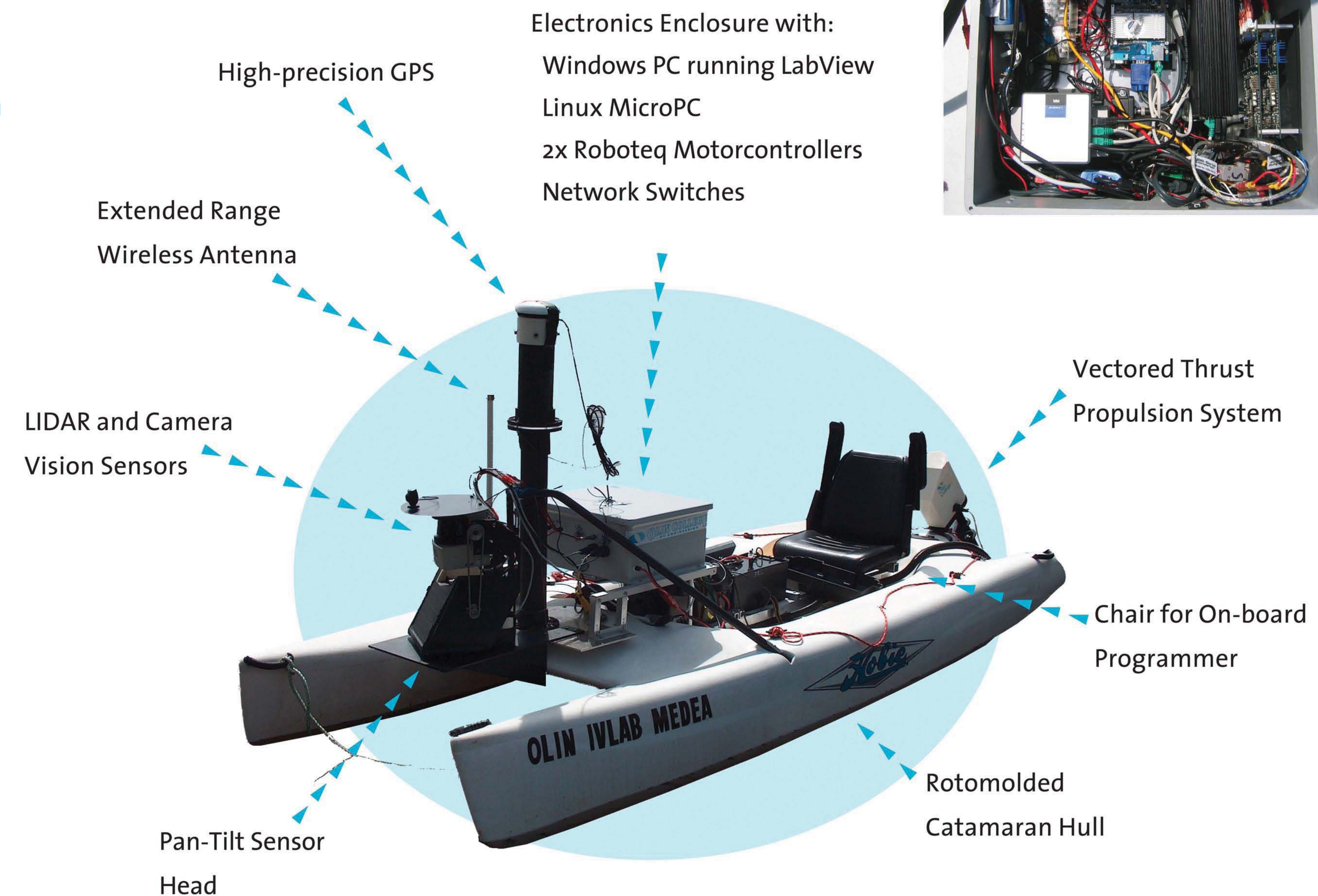
The Demo

Aurora USV

Olin USV Medea

USV Medea

Electronics Enclosure with:
- Windows PC running LabView
- Linux MicroPC
- 2x Roboteq Motorcontrollers
- Network Switches

High-precision GPS

Extended Range Wireless Antenna

LIDAR and Camera Vision Sensors

Vectored Thrust Propulsion System

Chair for On-board Programmer

Rotomolded Catamaran Hull

Pan-Tilt Sensor Head

OLIN IVLAB MEDEA

Waypoint Following

Sensing & Target Tracking

Project Team

Andrea Striz - Project Manager

Joe Holler - Captain and Mechanical Lead

Joe Kendall - Safety & Operations Officer

John Morgan - Navigation Officer

Nik Wittenstein - Test Pilot and Controls Officer

Tony Lopez - Communications Officer

Special Thanks to our many wonderful advisors:

Dave Barrett - Olin, Tony Abad - Aurora, Olivier Toupet - Aurora, Andre Devitt - Aurora