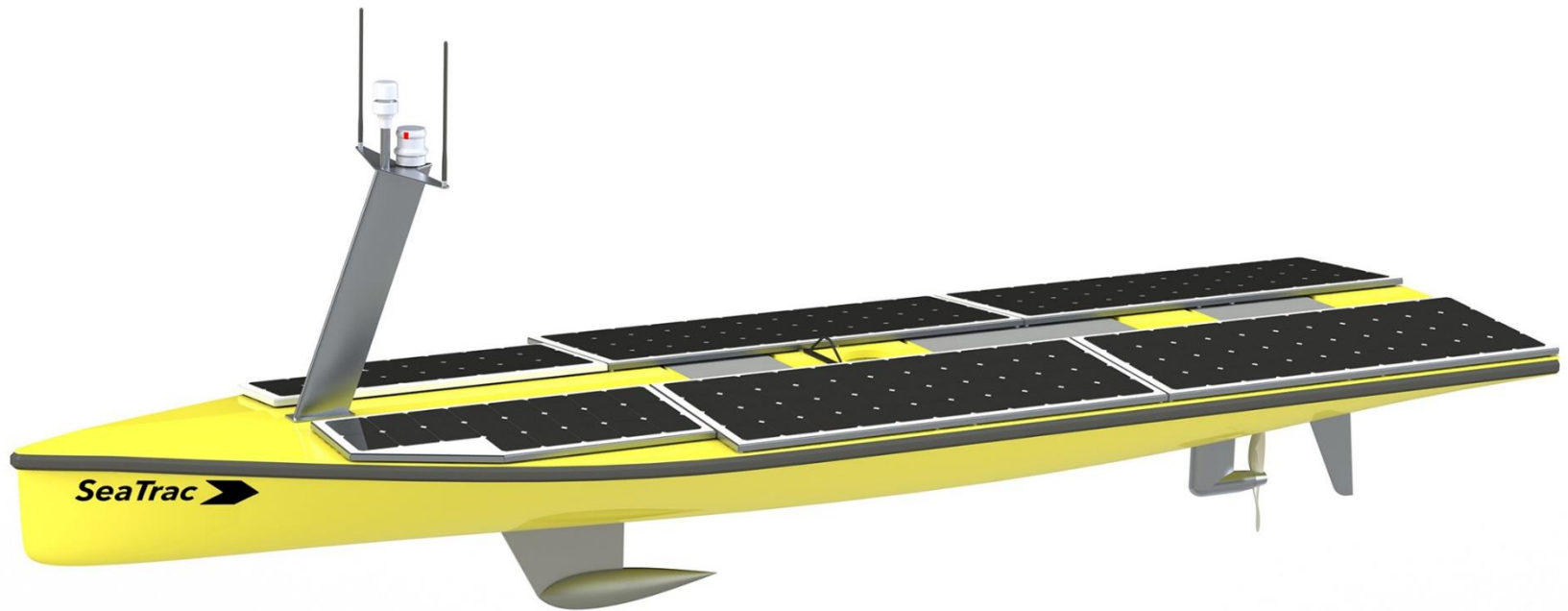




SeaTrac Systems, Inc.  
Marblehead, MA  
[www.seatrac.com](http://www.seatrac.com)



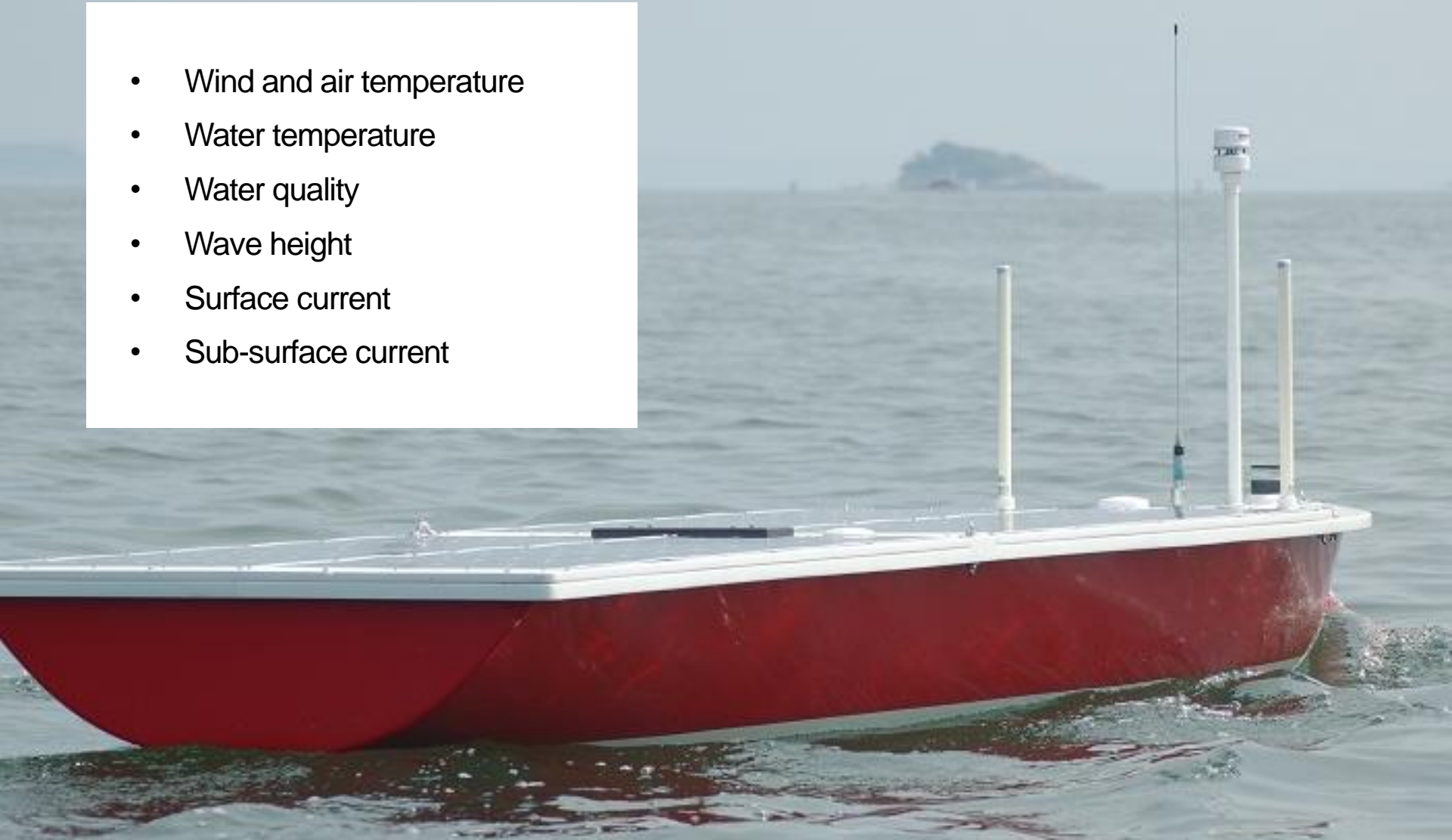
Founded by 2 MIT ocean engineers and serial entrepreneurs, Buddy Duncan and Jigger Herman

SeaTrac designs, builds, sells, leases and supports self-driving boats for scientific, commercial and defense applications

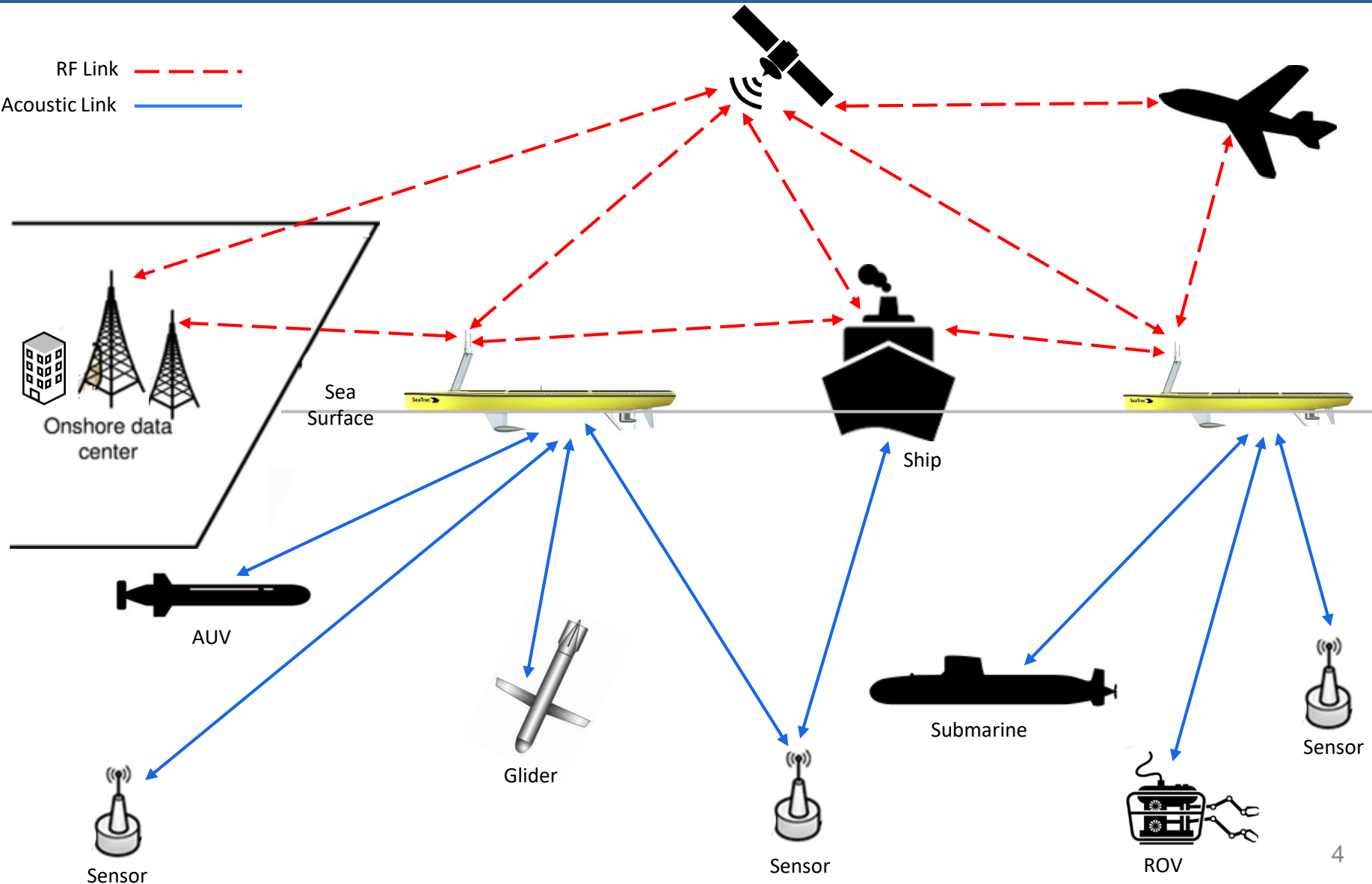
We view our platform as a pickup truck...

Open, Simple, Reliable and Cost-Effective ASV

- Wind and air temperature
- Water temperature
- Water quality
- Wave height
- Surface current
- Sub-surface current

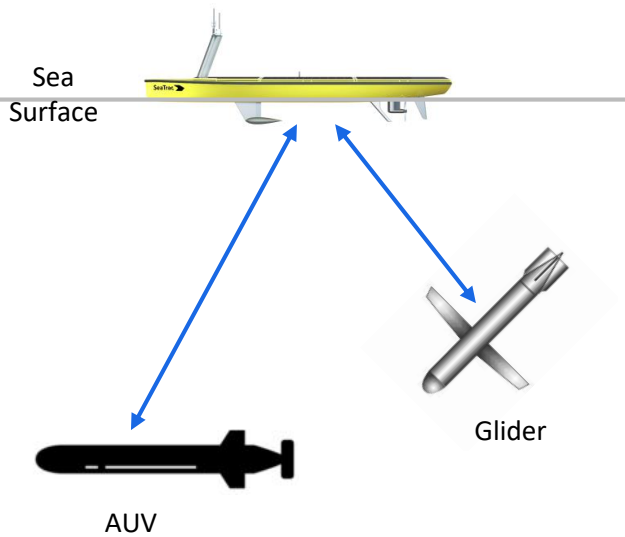


# Asset Communications and Tracking

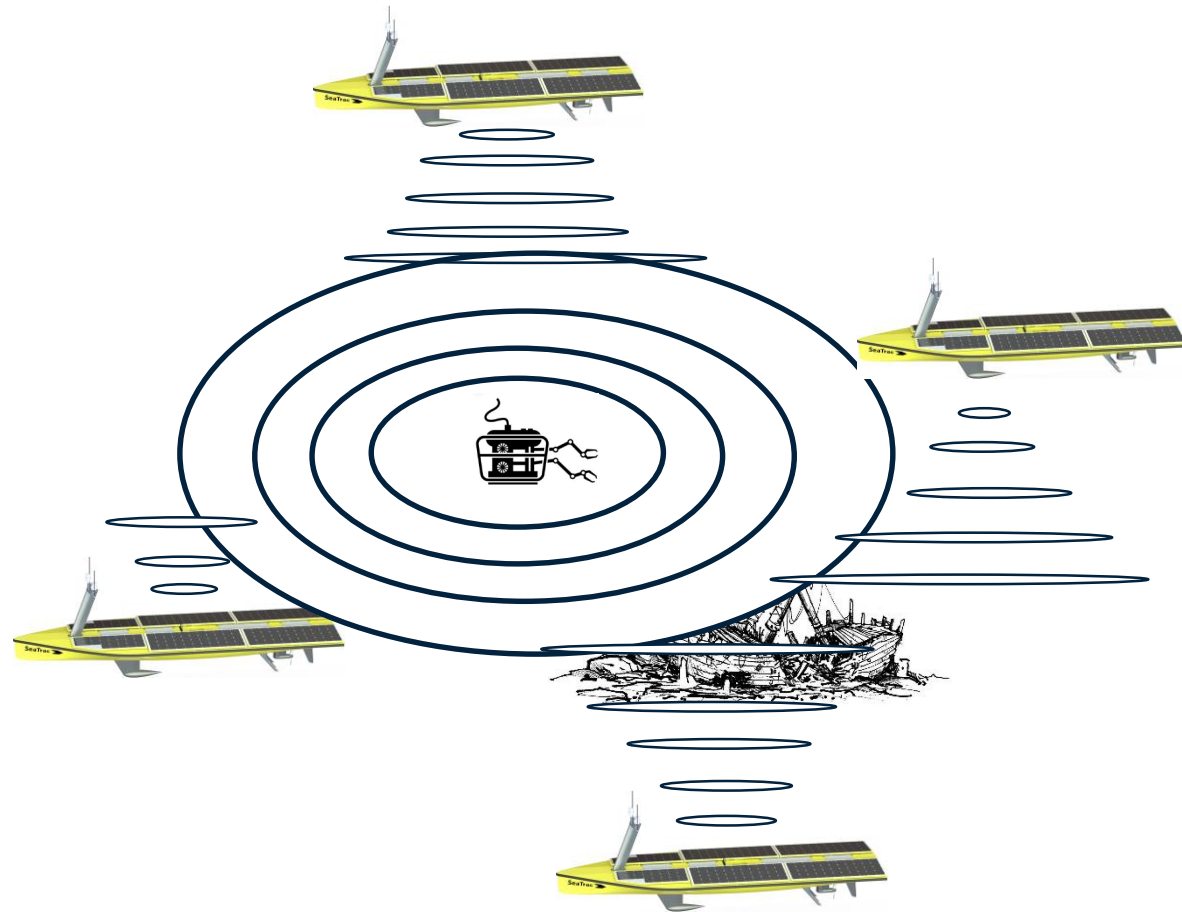


# Mobile Positioning – USBL/LBL

USBL

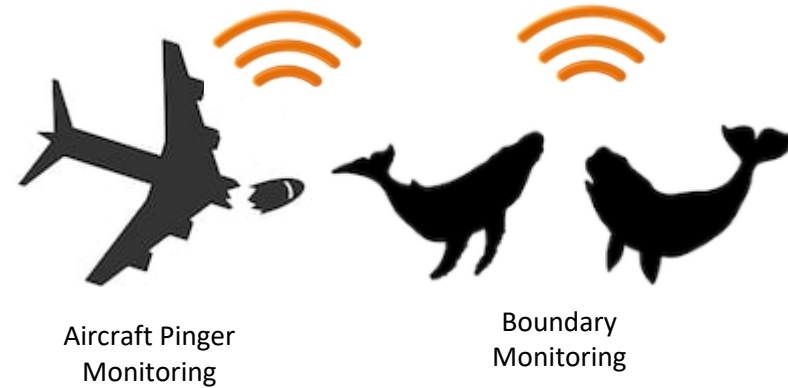
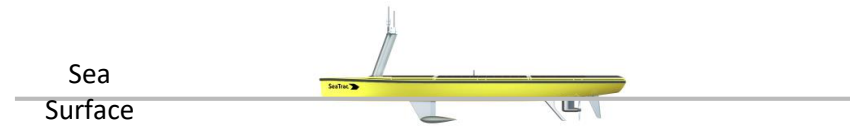
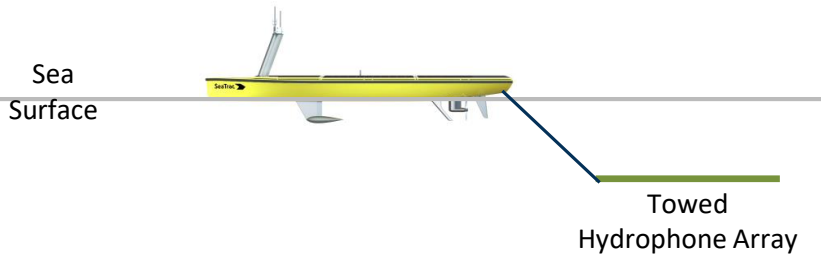


LBL

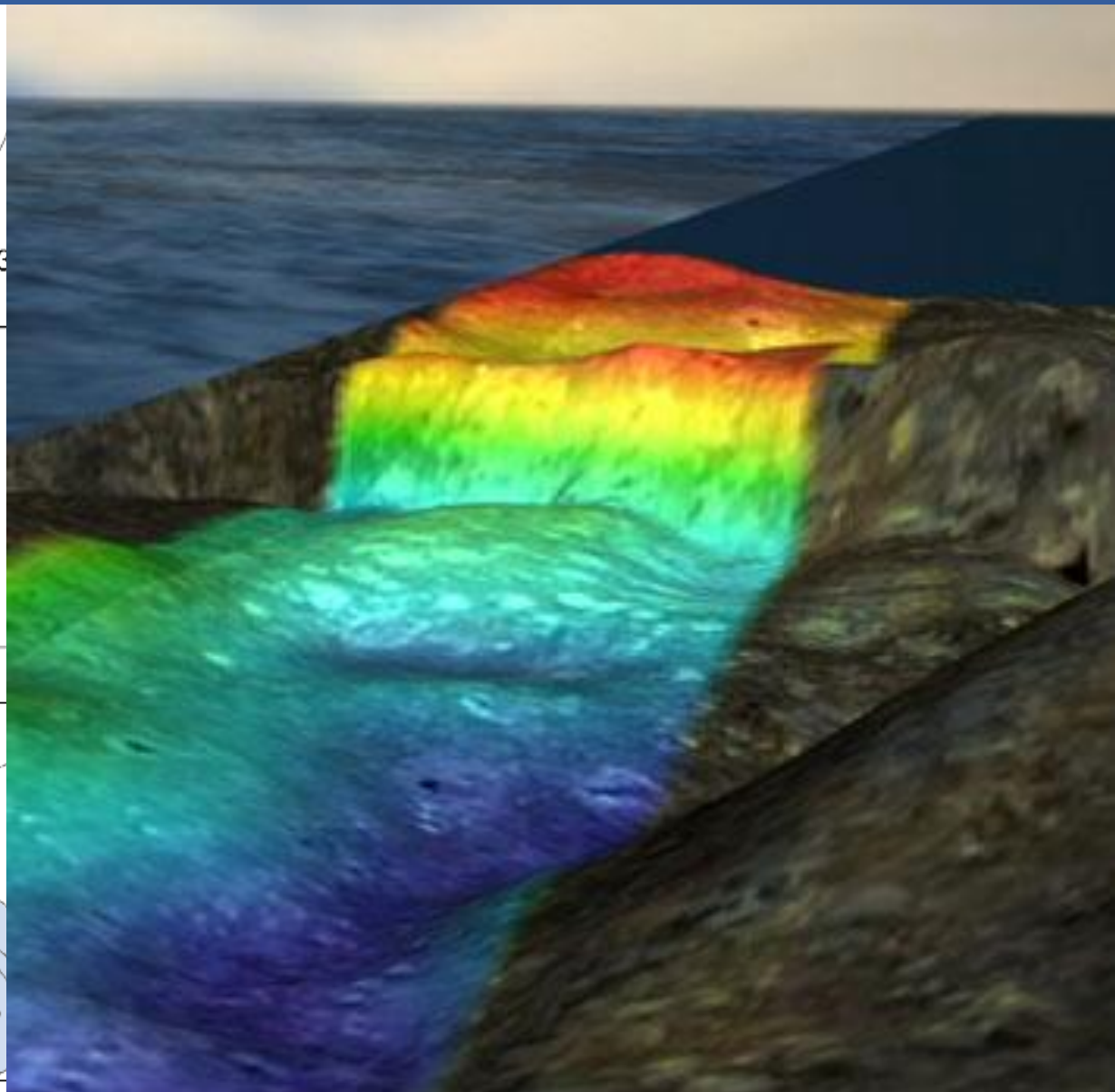
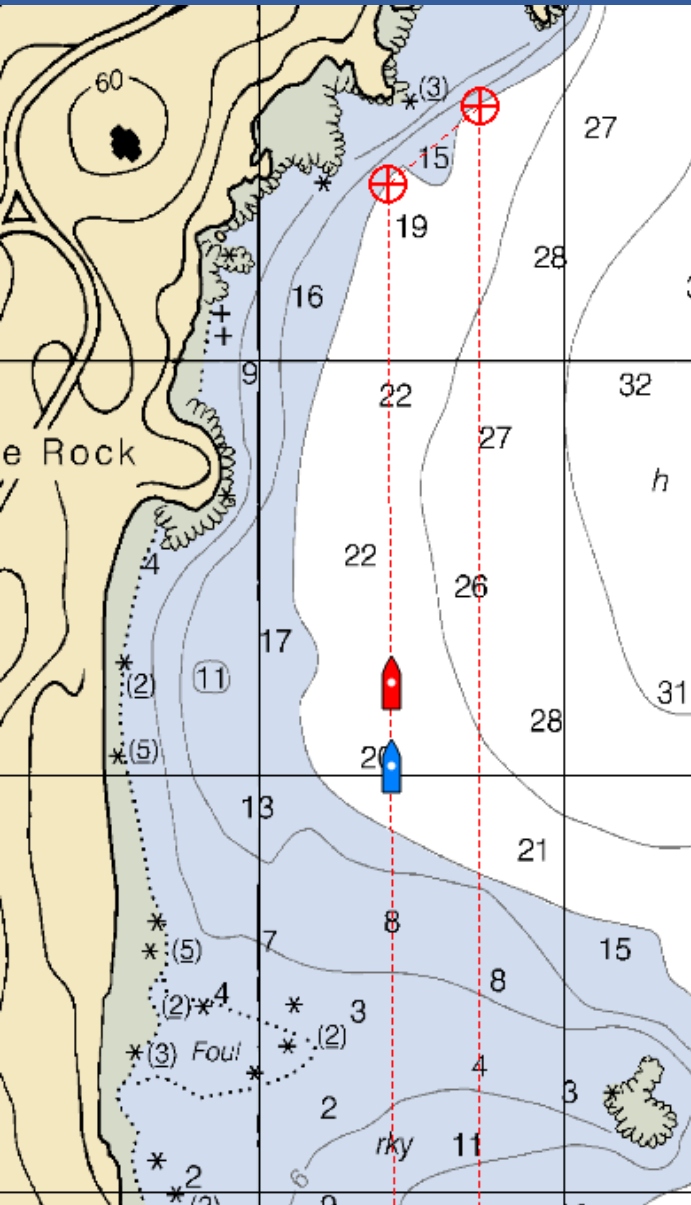


## Defense Applications

## Commercial Applications



# Hydrography



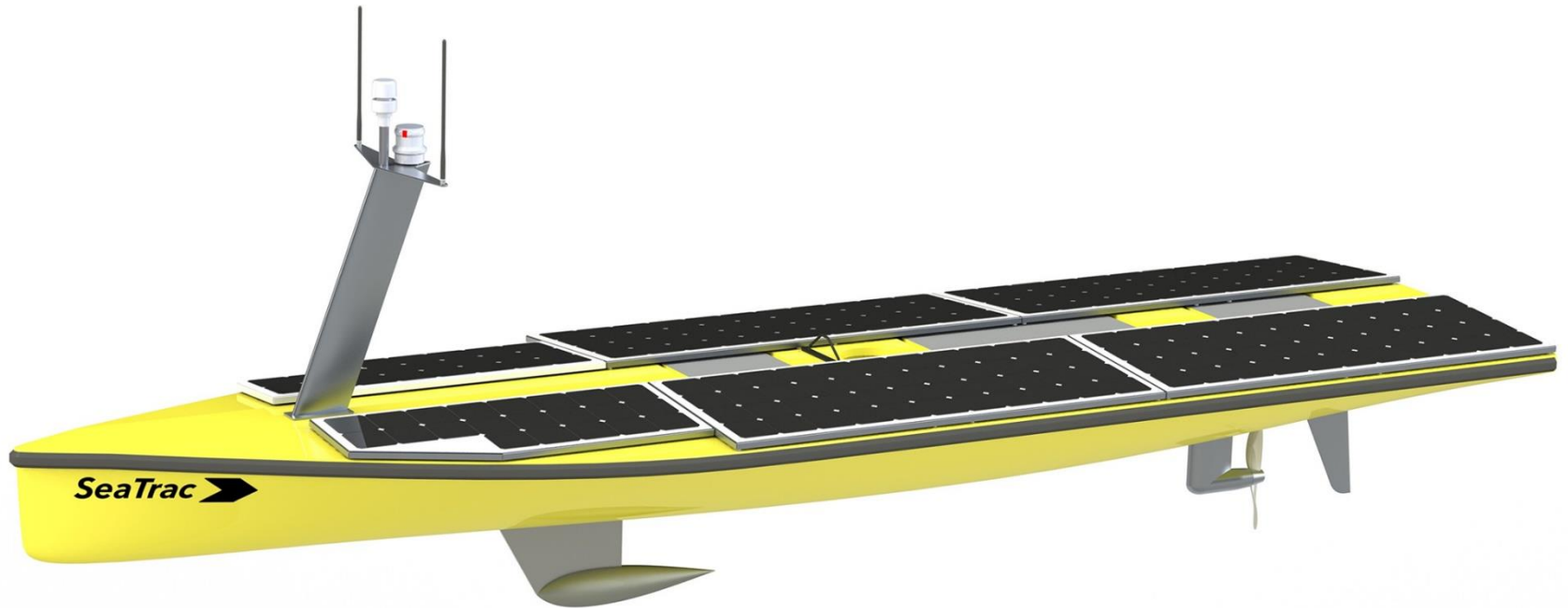


## The Red Boat:

- Testing and experimentation
- Design validation
- Missions and demonstrations

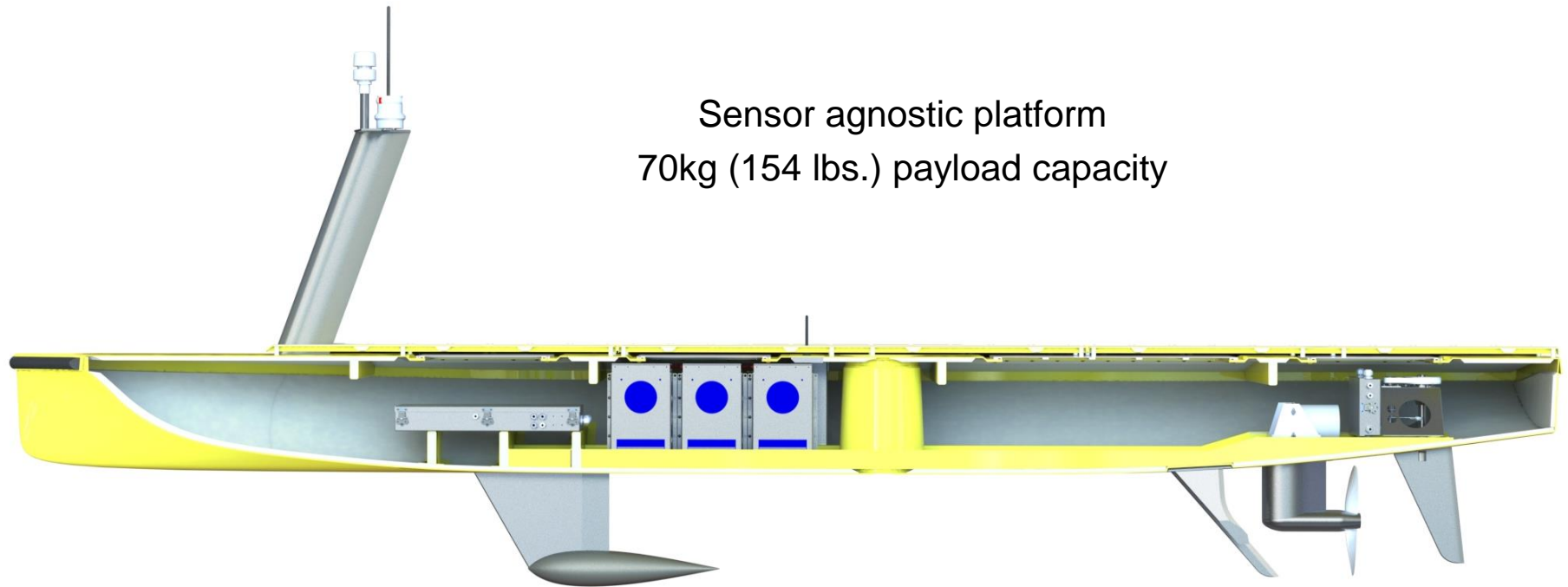


# SeaTrac SP-48 Vehicle



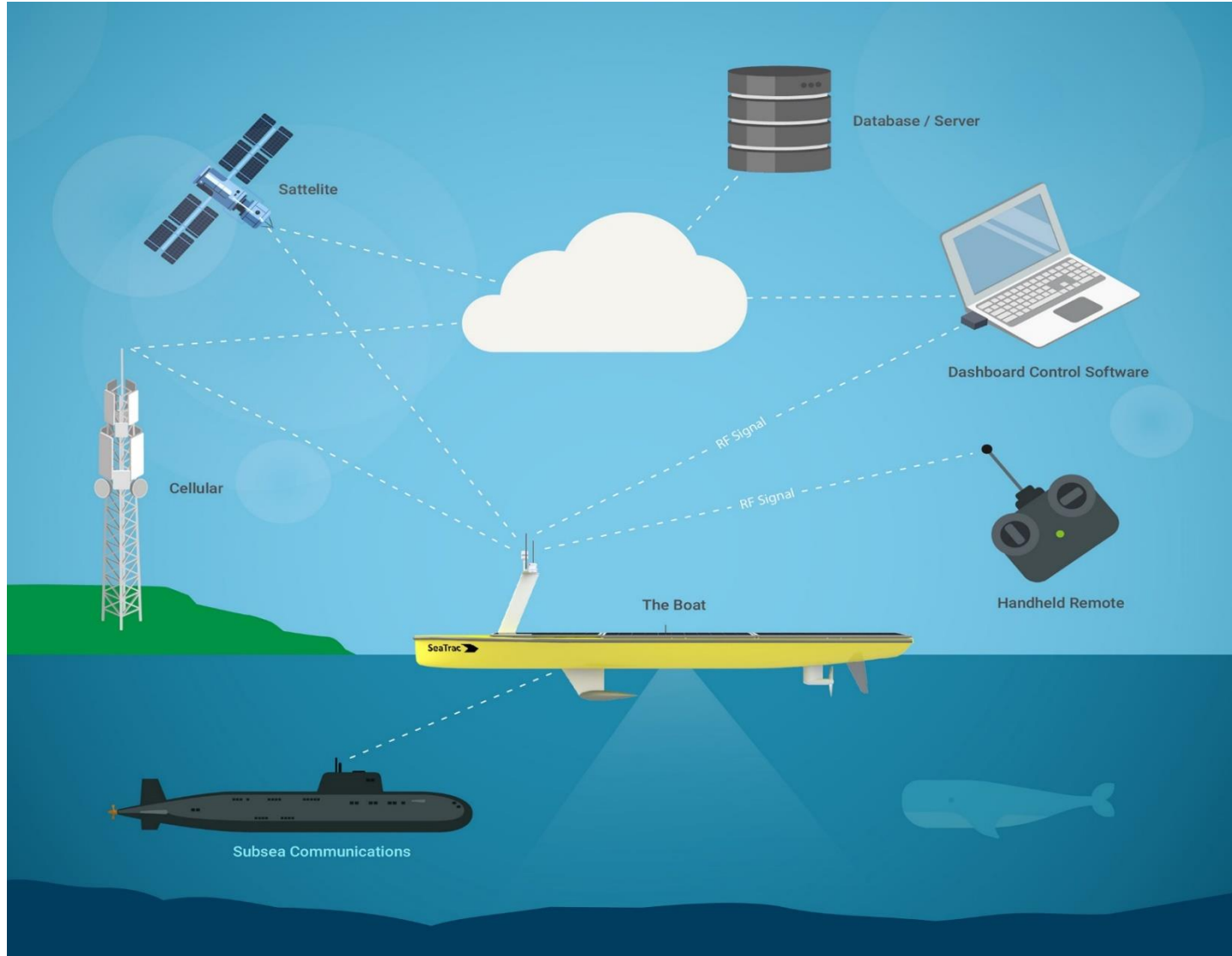
The Yellow Boat: production

# The SP-48 Vehicle



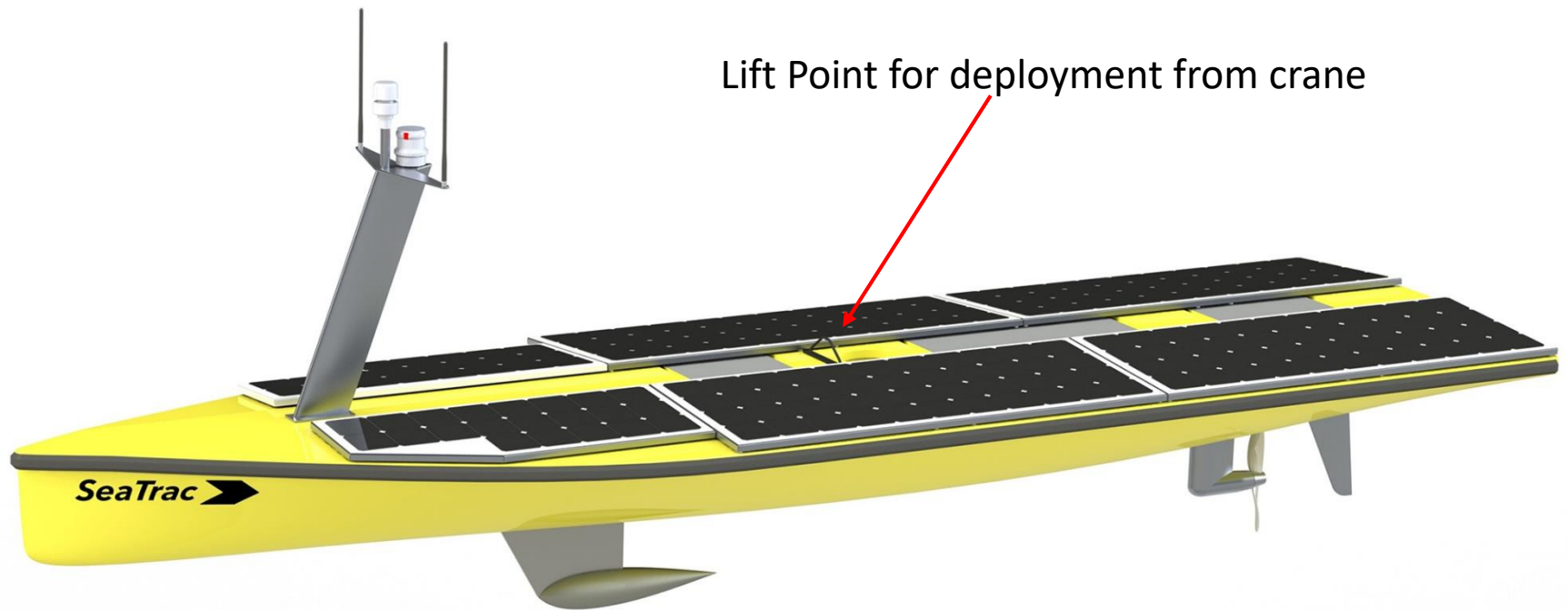
# Model Comparison

	ST-1 (Red Boat)	SP-48 (Yellow Boat)
LOA	14 ft	15.7 ft
Solar Panel Power	600 W	750 W
Battery Capacity	4.3 kWh	6.75 kWh
Motor Power	150 W	500 W
Top Speed	3.25 kts	4.5 kts
Typical Cruise Speed	3 kts	3 kts
Endurance	Months	Months



# Trailer Launch





# Mission: Harmful Algae Bloom (HAB) Monitoring – WHOI/Bowdoin

**Mission:** Harmful Algae Bloom (HAB) monitoring in Gulf of Maine

**Goal:** Provide required instrumentation power to facilitate mobile HAB monitoring

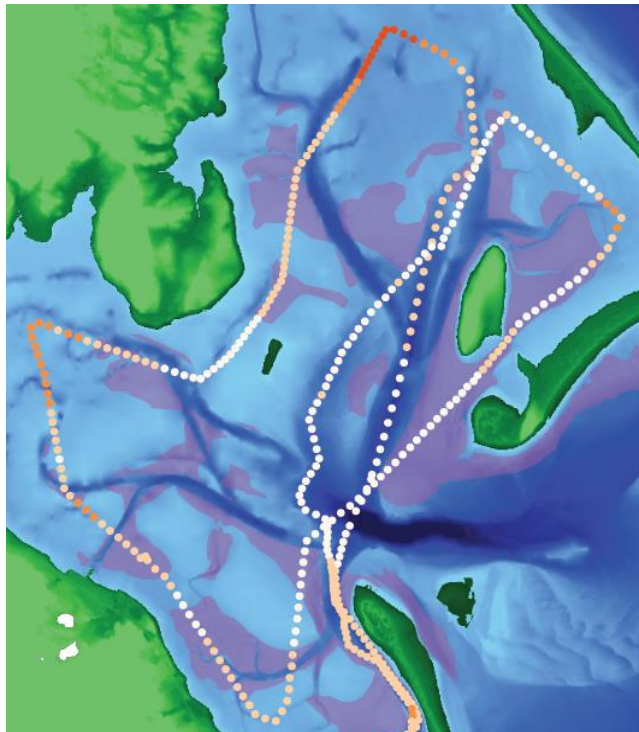
**Instrument:** IFCB (Imaging FlowCytobot), 35W continuous power requirement



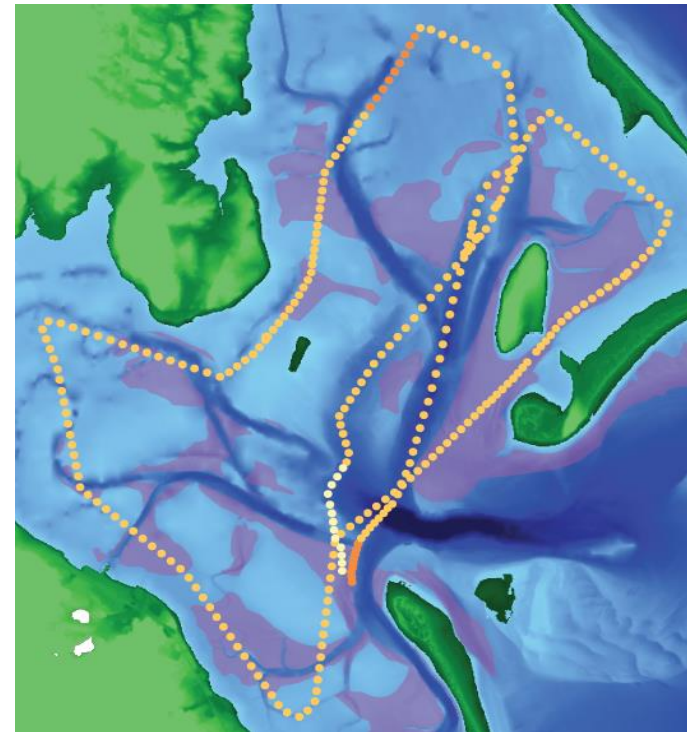
# Mission: Eelgrass Loss – Massachusetts Bays National Estuary Program

**Mission:** Water quality monitoring in the bays of Duxbury, Kingston and Plymouth

**Goal:** Conduct water quality monitoring on the entire embayment bay within a tidal cycle - deeper waters in low tide to shallower waters as the tide came in



Turbidity



Dissolved  
Oxygen

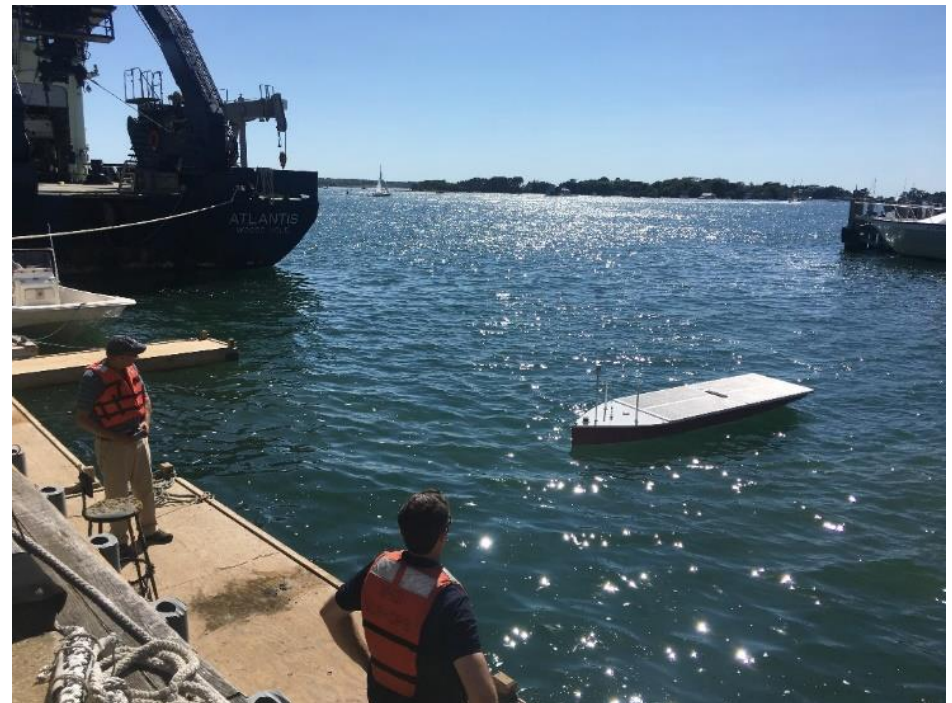


# Mission: Data Harvesting – WHOI CMR

**Mission:** Data Retrieval for subsea instrumentation in Woods Hole

**Goal:** Retrieval and transmission of stored data from subsea asset back to remote control center

**Instrument:** Benthos acoustic modem



# Mission: Subsea Asset Tracking & Communications Relay - ANTX



**Mission:** Subsea Asset Tracking and Data Communications Relay in Newport

**Goal:** Track UUV position, relay UUV status to remote command center and send commands to UUV from remote command center

**Instrument:** Benthos acoustic modem



# Thank You!



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