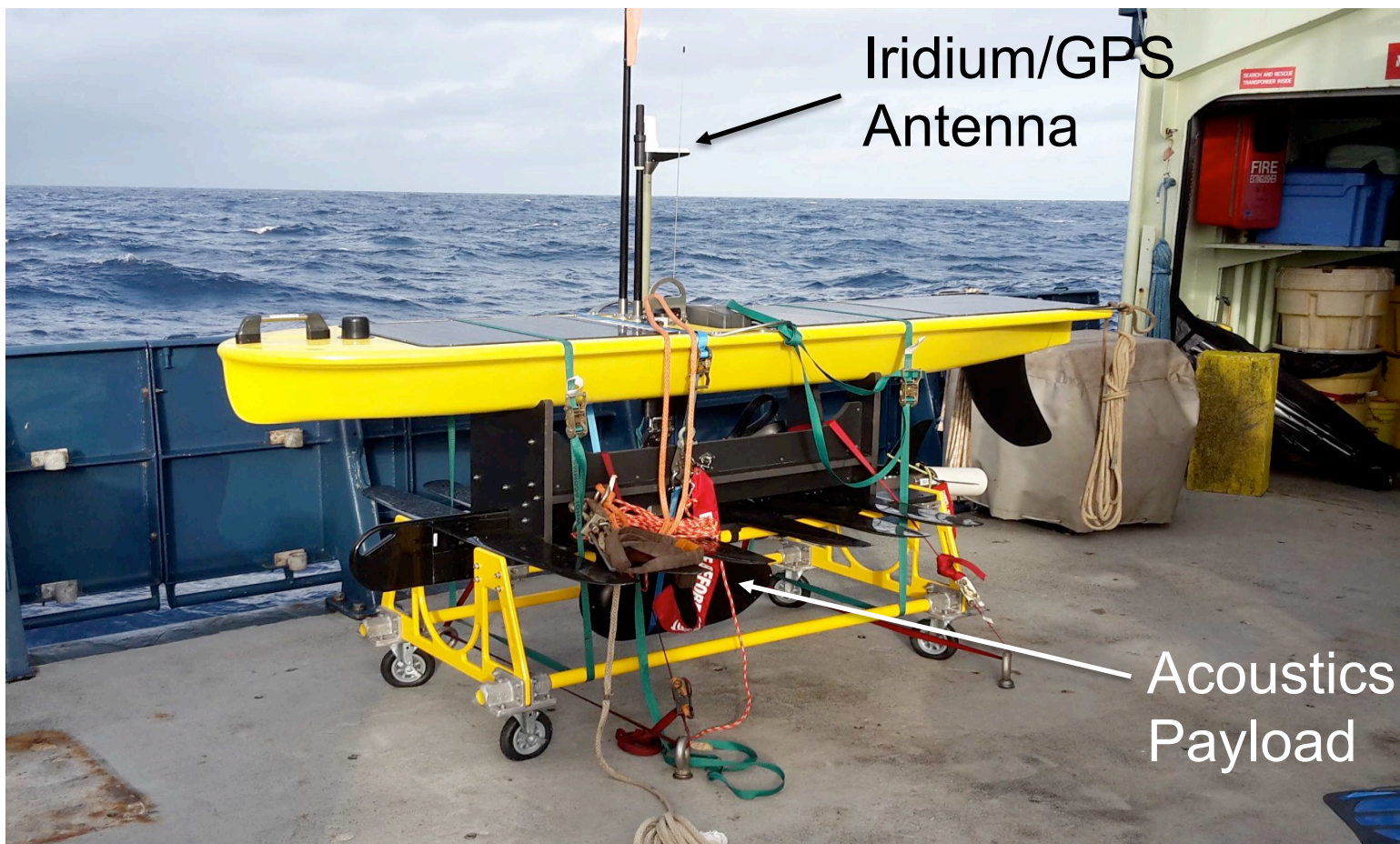


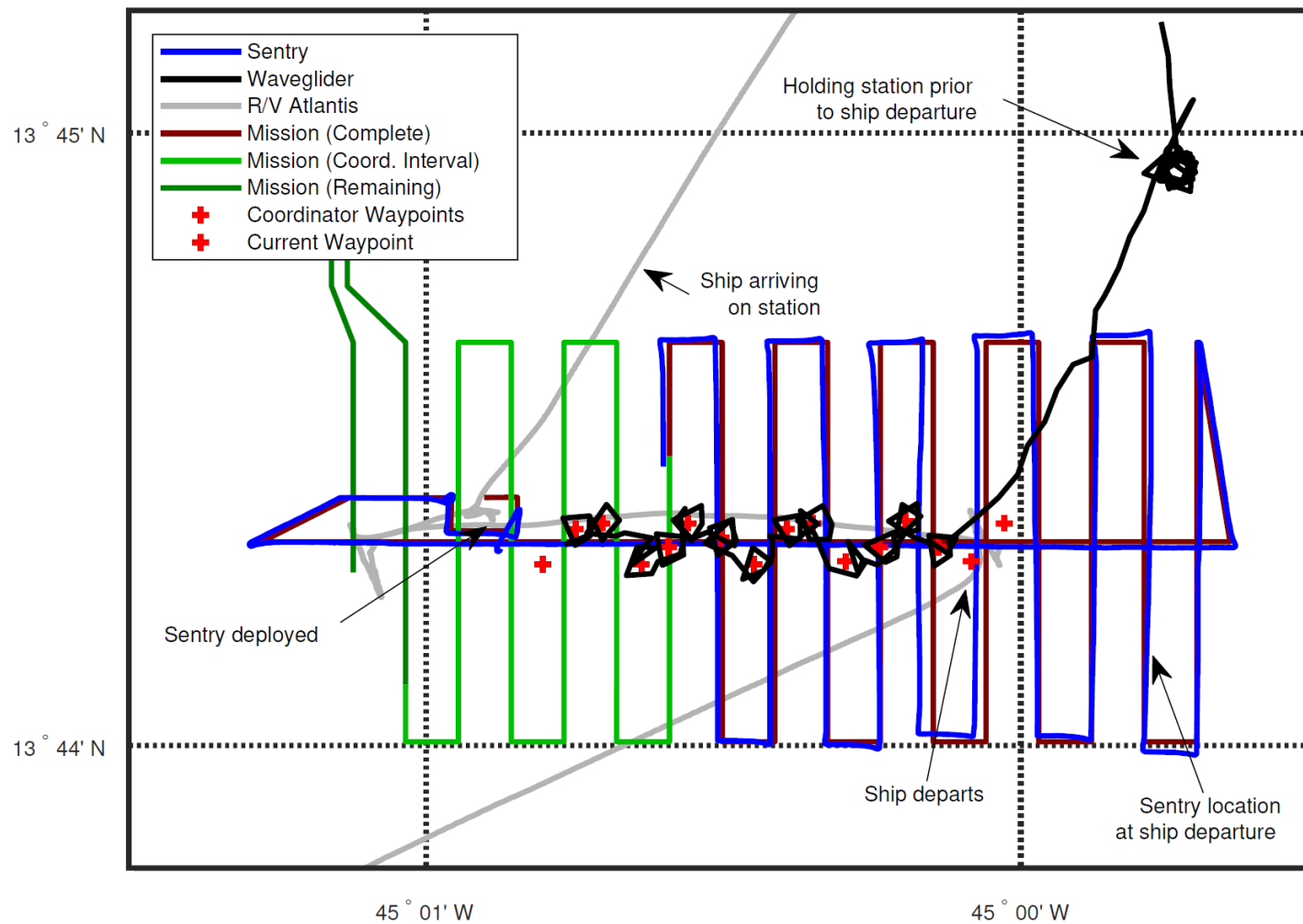
# Emerging technologies and Broader Activities

Autonomous Surface Vehicle tender for Sentry

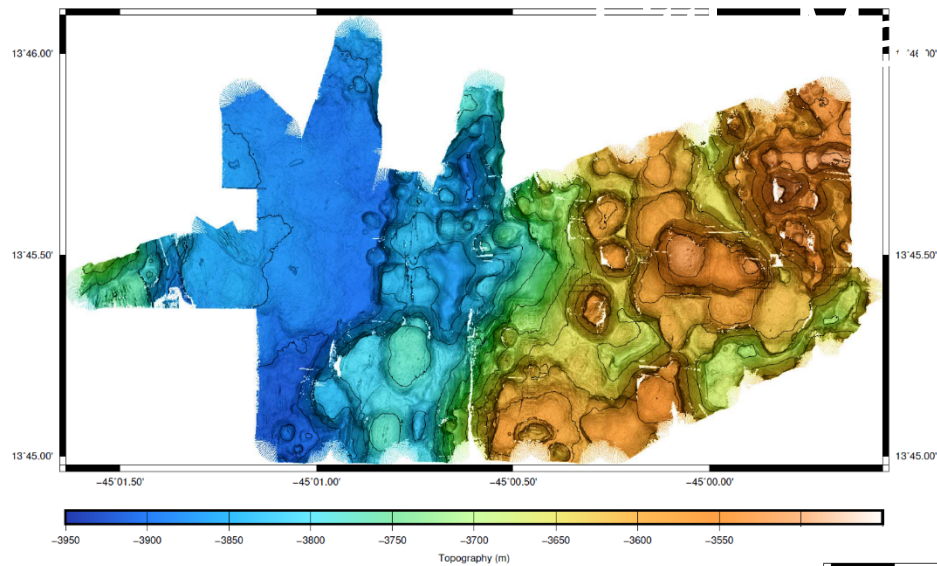


# Wave Glider Relay



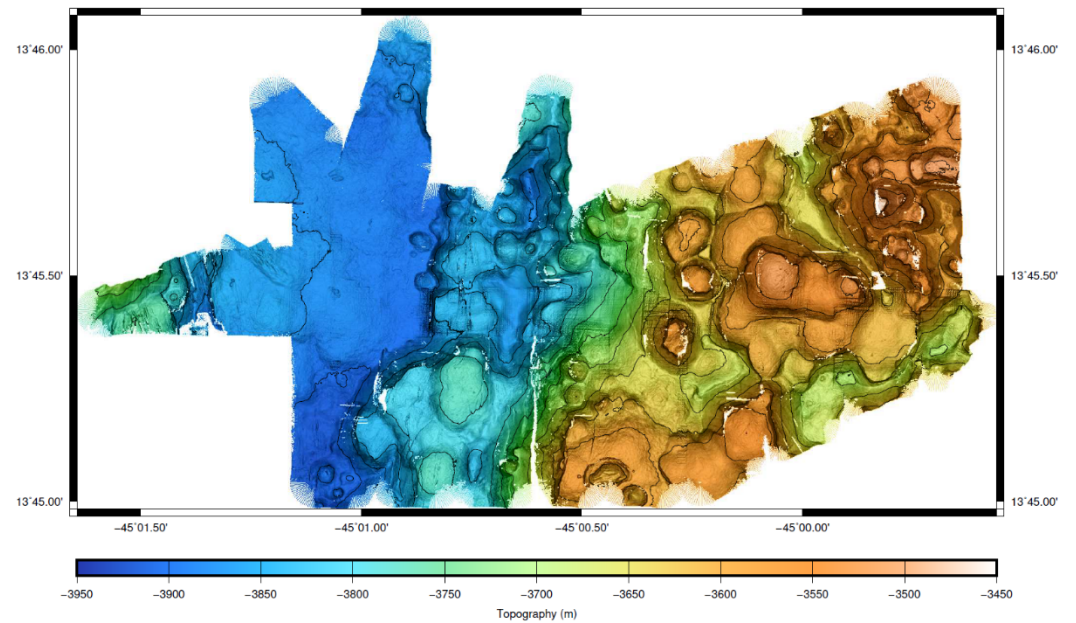


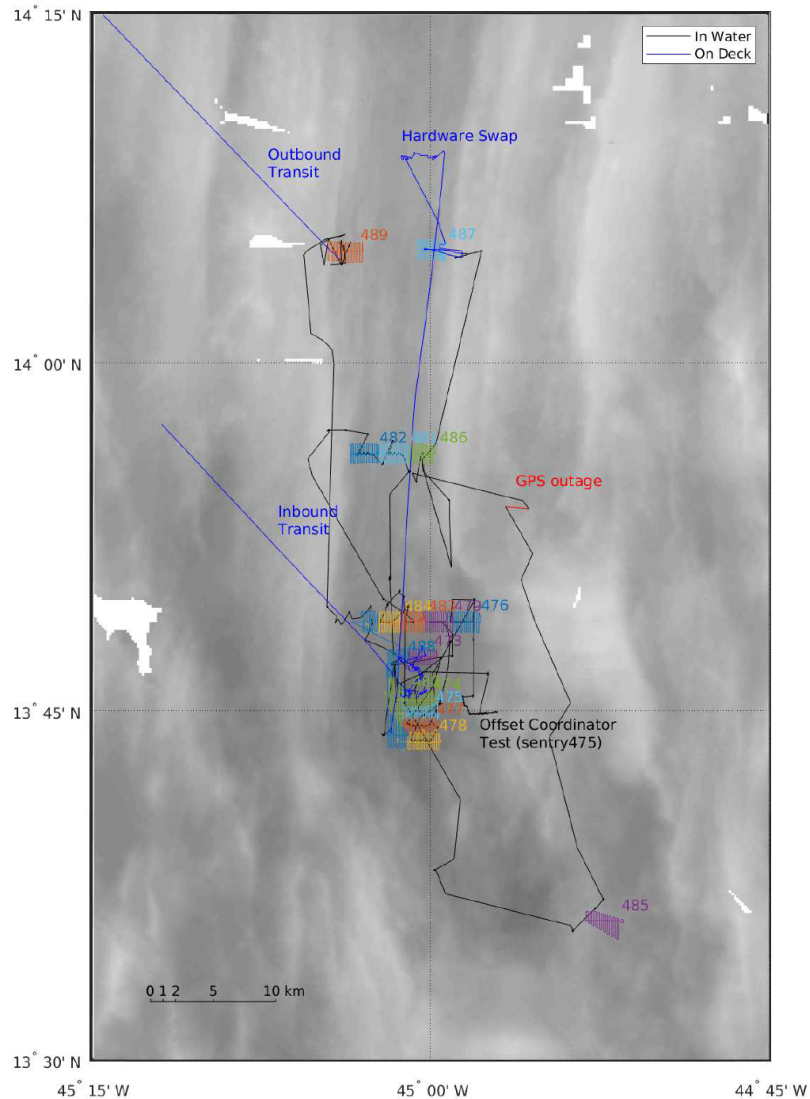




**Baseline**  
Entire dive USBL-aided

**USBL Denied**  
Descent, ascent, and  
crossing line remain  
USBL-aided





- Reliably telemetered data both ways, and to/from shore, though with 2-5 minutes latency
- Deployed 17 days continuous, minus planned 24 hour hardware swap
- Routinely transited > 10 nmi between dive sites while Sentry recharged on deck
- Routinely provided 4-6 hours of “bonus” science time per 12 hour overnight Sentry dive
- 36 hour Sentry dive with concurrent Alvin operations demonstrated potential to deliver more multibeam coverage per unit time (37% per 48 hours, sentry488).
- Well integrated into Sentry topside

