

Status of Navigation Upgrades

Last DESSC Meeting Status Summary:

- Chose and purchased ASP hardware
 - *Modifying DSP board from WHOI OSL*
- Testing software under development
- This year's plan:
 - *Test hardware / prototype software*
- Future
 - *Replace 455/LBL PC*
 - *Continue with phased plan*



Status of Navigation Upgrades

Current Status

- Prototype hardware has been built
- Taken to sea for testing on cruise of opportunity
 - ? Unable to hear transponders (board hardware issue?)
 - ? Problem with DSL Straza transducer

Testing Ashore

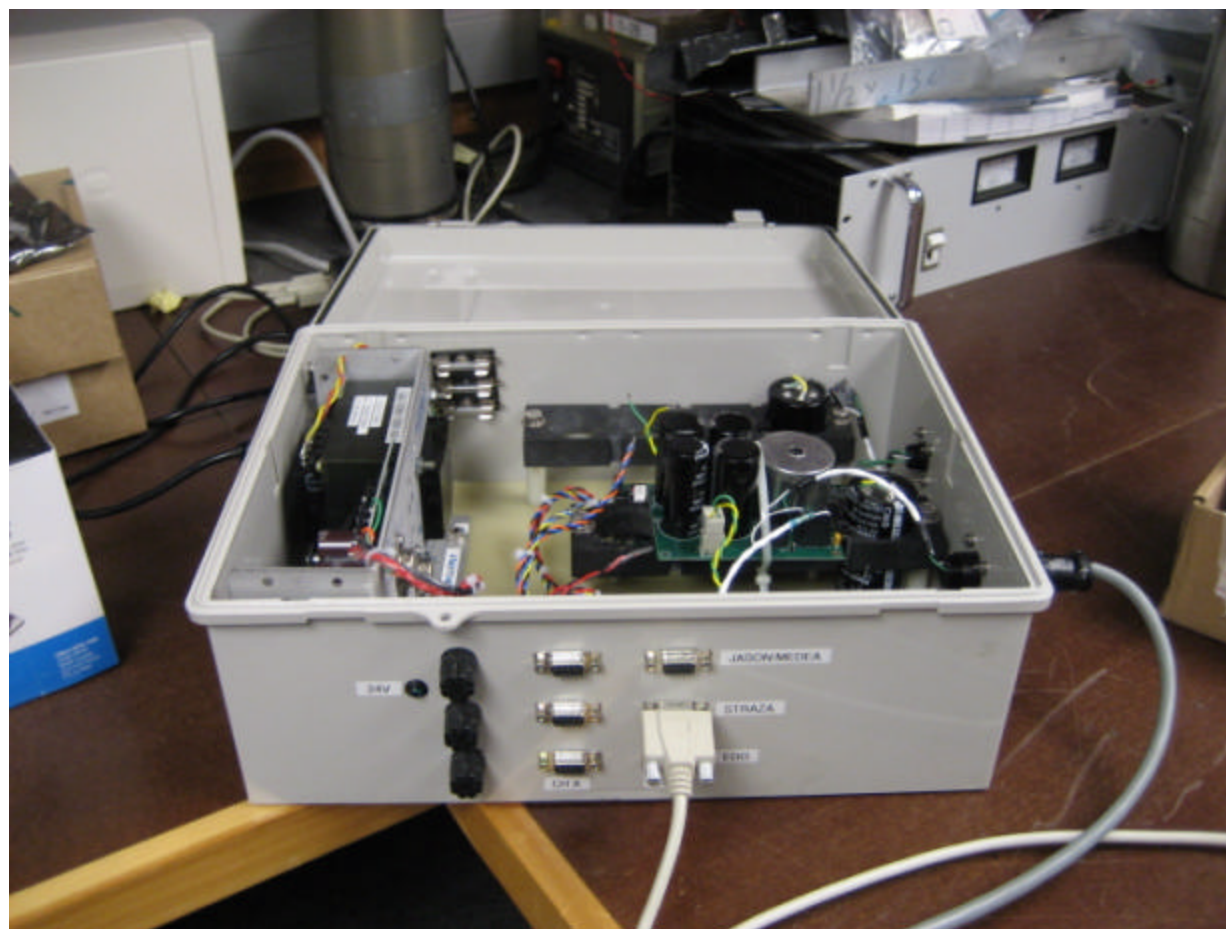
- Hardware issues found with one board
- Successful testing in tank/lab using Reson transducer
- Software interface developed

Kilo Moana Tests planned

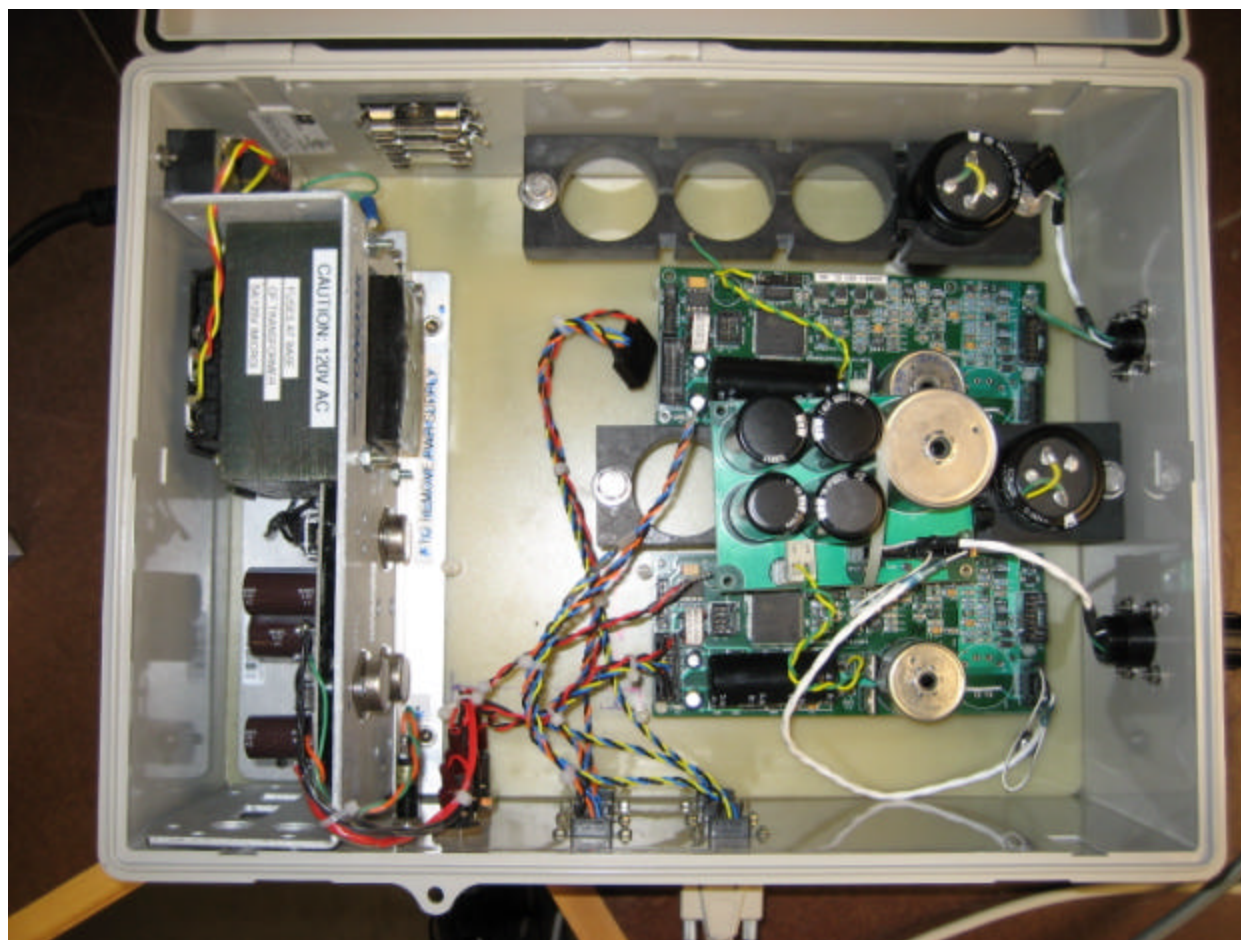
- November 11-21, 2006
- Will use Reson transducer
- Goal is to survey and navigate the ship



New System



New System



Status of Navigation Upgrades

Future Plans

- Presuming success of *KM* tests, continue with phased plan
- Replace Benthos 455 acoustic receivers
- Next steps:
 - Finalize hardware and integrate into vehicle systems
 - Move to common acoustic navigation system for all NDSF vehicles
 - Modify DVLnav to include necessary ship Dynamic Positioning capabilities for ROV ops

