

Space Details

Key:	MMAINT
Name:	300057 - Mooring Maintenance
Description:	
Creator (Creation Date):	kgomes (Dec 04, 2013)
Last Modifier (Mod. Date):	kgomes (Dec 04, 2013)

Available Pages

- Mooring Maintenance 

Mooring Maintenance

This page last changed on Jan 15, 2019 by [kgomes](#).

This page documents the work to scope the OASIS 3 upgrade that is occurring under the Mooring Maintenance project.

Documents

- [Proposal](#)

Related Work

- NDBC Mooring Upgrade
- [PDR Slides](#)
 - Reporting Cameras
 - Temperature Profiling
 - Target Deployment Date: 2015 Summer
 - Clamp on mounting on buoys (electrically independent of host buoy for legacy buoys)
 - Wireless (802.15.4) connectivity between modules and UIs (modular)
 - AIS receiver
 - XML formatted messages (AES-128 bit encryption)
 - Distributed processing
 - Rechargeable Li-ion
 - On power up, central hub queries system and sends configuration message (self-describing)
 - 4x30W Solar panels, 12 SMBus Smart Batteries, 2SMBus Charge Controllers, 1 Smart Module
 - Hub Coordinator:
 - Master Clock from GPS
 - Registers System Configuration
 - Monitors System Health
 - Stores XML Messages
 - Packet Builder (parser) is hosted in hub
 - Back channel access
 - Iridium for MET and AIS data
 - RUDICS for images
 - Processors: MPU-9150 and Gumstix