



Test Procedure Name: Coastal Surface Mooring Command & Control Capability Validation Test Procedure

Document Control Number: 1153-05012 Rev: 0-02

Test Plan Document Control Number: 1153-05000	Test Plan Revision Number: 1-01	Test Date(s): <YYYY-MM-DD>
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Test Procedure Approval Signature Block (signed before the test procedure is executed; signature indicates approval of the procedure content)				
Approval Authority (role)	Print Name	Signature	Date (yyyy-mm-dd)	Revision
Chief Systems Engineer				

Test Type(s) (select all applicable)
 Requirements Verification
 Developmental
 Integration
 Interface
 Stability
 Performance
 Validation
 Acceptance
 Other

Test Procedure Description

This procedure contributes to the Validation Testing of the Coastal Surface Mooring, which is required for Commissioning. It applies to Coastal Surface Moorings, which are deployed at the Pioneer Inshore, Central and Offshore sites, and the Endurance Washington and Oregon Inshore, Shelf and Offshore sites.

This procedure is the Command & Control Capability Scenario (Section 4.3.2, Validation Test Plan for OOI Coastal Pioneer Array – 1153-05000).

- Confirm that the platform can be hailed from ship/shore
- Confirm that the operational strategy can be changed from ship/shore
- Confirm that the sampling strategy can be changed from ship/shore

Test Location

Platforms will be deployed in their defined locations within the Coastal Pioneer Array. Testers will be located where they have access (directly, via internet, or via WebEx) to the Coastal Pioneer Array data, command and control software, and monitoring displays (e.g., the WHOI OMC).

Test Equipment				
Equipment ID or Serial Number	Calibration Due Date (yyyy-mm-dd)	Equipment Technician (print name)	Certification Signature (indicates that calibration has not expired)	Date (yyyy-mm-dd)
N/A				

Test Software (Including custom and COTS)	
Software Product Name	Software Version
CGSN Data Server software	<to be filled in at time of test>
CGSN Platform Shore Server software	<to be filled in at time of test>

Input Data					
Dataset Name	Dataset Description	Dataset Source (e.g., IOOS, CTD sensor)	Dataset Location (e.g., complete file path and name)	Data Volume	Procedure Step(s) (Where Data is used)



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Output Data				
Dataset Name	Dataset Description	Dataset Source <small>(e.g., IOOS, CTD sensor)</small>	Data Storage Location <small>(e.g., complete file path and name)</small>	Comments <small>(e.g., explain any naming conventions used)</small>
<i><Insert rows as needed></i>				

Test Safety
Tests shall be conducted in accordance with the OOI Environmental Health and Safety Plan (1006-00000), and in accordance with institutional operational safety policies.

Preconditions	Test Reports
The platform(s) to undergo Validation Testing must be deployed. The OMC must be operational and have the Shore Server software integrated.	<i><Identify the document numbers of any test reports produced from the execution of this procedure></i>



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Test Procedure				Test Results				
Step No.	Instructions	Requirement ID (If applicable)	Expected Results	Actual Results (If different than Expected)	Step Completed By (Enter initials, unless test is automated)	Pass/Fail	Notes	JIRA Issues (Identify issues found in this step)
A	Ship/Shore to Platform Communications							
A-1	Review deployment documentation to confirm the platform can be controlled by ship/shore. Record document, date/time of comms							
A-2	Alternately, issue commands to the platform from OMC Record date/time of platform receiving commands.							
B	CPM Mission Control							
B-1	Review initial Mission Configuration for telemetry/mission control Describe plan or attach details.							
B-2	Review data to confirm operational behavior of telemetry/mission control conforms to defined mission plan.							
B-3	Create revised Mission Plan for telemetry Describe plan or attach details							
B-4	Upload new Mission Configuration Plan							
B-5	Review data to confirm changed operational behavior of telemetry/mission control conforms with revised mission plan							
B-6	Issue Mission Control commands via ship/shore communication path							
B-7	Review data to confirm operational behavior of telemetry/mission control conforms with revised mission plan							
C	DCL Command/Control							
C-1	Review initial Mission Plan for Sensor suite Describe plan or attach details.							
C-2	Review data to confirm operational behavior							



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Test Procedure				Test Results				
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	of sensors conforms to defined mission plan.							
C-3	Create revised Mission Plan for sensor(s) Describe plan or attach details							
C-4	Upload new Mission Configuration Plan							
C-5	Review data to confirm operational behavior of Mission Control conforms with new sampling strategy							
C-6	Issue Mission Control commands via ship/shore communication path							
C-7	Review data to confirm operational behavior of telemetry/mission control conforms with revised mission plan							

Post-Test Signature Block (Signatures indicate that the test procedure has been completed according to the instructions and results documented above or as noted in comments below.)				
Role (e.g., Test Lead, Test Operator, Systems Engineer, Design Engineer, Safety Engineer, QA/QC Engineer, Witness)	Print Name	Initials	Signature	Date (yyyy-mm-dd)



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Comments:

