



Test Procedure Name: Coastal Surface Mooring End-to-End Data Flow Validation Test Procedure

Document Control Number: 1153-05013 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				1-00

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 End-to-end Data Flow Scenario (Section 4.3.3, Validation Test Plan for OOI Coastal Pioneer Array – 1153-05000).

- Confirm that engineering data are received on shore in the OMC (Data Server)
- Confirm that engineering data are transferred from the OMC Data Server to CI
- Confirm that engineering data are available via OOI Net
- Confirm that engineering data are within reasonable limits
- Confirm that science data are received on shore in the OMC (Data Server)
- Confirm that science data are transferred from the OMC Data Server to CI
- Confirm that science data are available via OOI Net
- Confirm that science data are within reasonable limits
- Confirm error indications/alerts in OOI Net are functional

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), and ERDDAP.

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>
ERDDAP Platform Shore Server software	<to be filled in at time of test>



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

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>

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 and ERDDAP must be operational with the appropriate Dataset Agent Drivers 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	Data Present at OMC							
A-1	Review status on OMC Platform Shore Server (http://cgsn-omc.who.edu/oms)							
A-2	Ssh to: 199.92.168.170 Login as: ooiuser Password: OMCcgsn#							
A-3	Navigate to: /home/cp01cnsm/D0001/cg_data							
A-4	Verify directory structure: Linux command: ls -l cp01cnsm_0001.tar.gz cpm2 cpm3 dcl12 dcl13 dcl26 dcl27 dcl35 dcl37 fb250 gps irid pwrsys superv syslog							



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A-5	Verify data in directories: Cd /dcl11>ls -l cfg_files dosta1 hyd1 imm metbk1 nutnr1 rsync spkir1 superv syslog							
A-6	Confirm science and engineer data View Status page for deployed Surface Mooring: Click on Pioneer Array Click on CP01CNSM <or other platform> Click on Detail Status							
A-7	Grab a screen shot of the Status page							
A-8	Click on: Instrument Data Summary							
A-9	Verify science/engineering data: Click on: <sensor name> Verify data present							
B	Data Present on ERDDAP							
B-1	Go to ERDDAP and access site http://erddap.ooi.rutgers.edu/erddap/info/index.html?page=1&itemsPerPage=1000							
B-2	Navigate to Coastal Pioneer Array Select a site and platform Record platform name (RefDes)							



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B-3	Navigate to the data products page for selected platform							
B-4	View MOPAK engineering data Confirm data is present (plotted)							
B-5	Select MOPAK engineering data product Record data product name Verify data is within reasonable limits							
B-6	Return to selected platform facepage							
B-7	View ADCP science data Confirm data is present (plotted)							
B-8	Select ADCP data product Record data product name Verify data is within reasonable limits							
B-9	Download ADCP data product Record filename							
B-10								
B-11								
B-12								
B-13								
C	Indications/Alerts in OMC							
C-1	View Status page for deployed Surface Mooring: Click on Pioneer Array Click on CP01CNSM <or other platform> Click on CPM1 Eflag							
C-2	Verify Fault Table window pops up							
C-3	Click on Power Controller Status Eflag							
C-4	Verify Fault Table window pops up							



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

Comments:



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Document Control Sheet

Version	Date	Description	Originator
0-01	3/6/2015	Initial Draft	S. White
0-02	3/31/2015	Procedure details filled in.	M. Palanza