



Test Procedure Name: Coastal Surface High-level Validation Test Procedure
Document Control Number: 1153-05015 Rev: 0-01

Test Plan Document Control Number: 1153-05000	Test Plan Revision Number: 1-00	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 System 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, Shelft and Offshore sites.
 This procedure is the High-level Coastal Surface Mooring Validation Scenario (Section 4.3.5, Validation Test Plan for OOI Coastal Pioneer Array – 1153-05000).

- Confirm operations of platform components (platform controller, power system components, engineering sensors, science instruments)
- Confirm that engineering data are available via OOINET
- Confirm that engineering data are within reasonable limits
- Confirm that science data are available via OOINET
- Confirm that science Data Products are available via OOINET and are satisfactory

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 OOINET.

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>
OOINet	<to be filled in at time of test>
Coastal Wire Following Profiler Dataset Agent Drivers (see Appendix A, 1153-05000)	<to be filled in at time of test>
Coastal Wire Following Profiler Data Product Algorithms (see Appendix A, 1153-05000)	<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>

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

The platform(s) to undergo Validation Testing must be deployed. The OMC and OOINET must be operational with the appropriate Dataset Agent Drivers and Data Product Algorithms integrated.

Test Reports

<Identify the document numbers of any test reports produced from the execution of this procedure>



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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)
1	Record Platform Serial Number	N/A	CPxxAAAA-0000x					
A	At-Sea Status/Functionality							
A-1	Confirm successful WiFi line-of-sight communications during deployment Record date/time of WiFi comms	N/A	Successful WiFi comms between mooring and ship					
A-2	Confirm successful RF line-of-sight communications during deployment Record date/time of RF comms	N/A	Successful RF comms between mooring and ship					
A-3	Confirm successful Iridium SBD satellite communications during deployment Record date/time of SBD test	N/A	Successful Iridium SBD comms between mooring and ship					
A-4	Confirm successful Iridium ISU (9522B) satellite communications during deployment Record date/time of mooring-to-shore data transfer	N/A	Successful Iridium ISU comms between mooring and ship					
A-5	Confirm successful IMM communication during deployment Record date/time of IMM testing	N/A	Successful IMM comms with MMP and ADCP (with both in the water).					
A-6	View OMC Status Page to confirm high-level functionality Grab a screen shot of the Status page	N/A	Status being reported, no significant errors					
B	Data transfer to shore							
B-1	Review data on OMC Platform Shore Server (ooi-cgpss1.who.edu.ooi-omc.org/cgi-bin/OMS_Status.ps) Click on PLATFORM LIST on left navigation bar	N/A						



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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)
B-2	View data for deployed Profiler Mooring: Click on Platform Shore Server Click on cp02pmui <or other platform> Click on D0001 <or other deployment> Click on Detailed Status	N/A						
B-3	View Motion Pack engineering data On top View bar, click on Data Click on 3dmgx3 Download file and record filename	N/A	Data is present (data is in binary and thus will not be plottable)					
B-4	View ADCP science data Click on RII01-02-ADCPT Click on file Record filename Confirm data is present (plotted)	N/A	Data present and plotted					
B-5	View WFP PARAD/FLOST science data Click on WFP01-05-PARAD Click on file Record filename, date/time of file Confirm data is present (plotted)	N/A	Data present and plotted Profiles visible in pressure data					
B-6	View WFP CTDPF/DOFST science data Click on WFP01-03-CTDPF Click on file with same date as in C-5 Record date/time of file Confirm data is present (plotted)	N/A	Data present and plotted Profiles visible in pressure data					
B-7	View WFP VEL3D science data Click on WFP01-01-VEL3D Click on file with same date as in C-5 Record date/time of file Confirm data is present (plotted)	N/A	Data present and plotted Profiles visible in velocity data					



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C	Data Present on OOI Net						
C-1	Go to OOINet and access site User Role: Guest	N/A					
C-2	Navigate to Coastal Pioneer Array Select a site and platform Record platform name (RefDes)	N/A				Site – Upstream Inshore Platform – Wire Following Profiler	
C-3	Navigate to the data products page for selected platform	N/A					
C-4	View MOPAK engineering data Confirm data is present (plotted)	N/A					
C-5	Select MOPAK engineering data product Record data product name Verify data is within reasonable limits	N/A					
C-6	Return to selected platform facepage	N/A					
C-7	View ADCP science data Confirm data is present (plotted)	N/A					
C-8	Select ADCP data product Record data product name Verify data is within reasonable limits	N/A					
C-9	Return to selected platform facepage	N/A					
C-10	View WFP science data Confirm data is present (plotted): CTDPF,DOFST,FLORT,PARAD,VEL3D	N/A					
C-11	Select WFP data product Record data product name Verify data is within reasonable limits	N/A					

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:



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Document Control Sheet

Version	Date	Description	Originator
0-01	3/6/2015	Initial Draft	S. White