



Test Procedure Name: Coastal Surface Piercing Profiler Health & Status Monitoring Validation Test Procedure

Document Control Number: 1158-02022 Rev: 1-00

Test Plan Document Control Number: 1158-02000	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 Systems Engineer	John Pesaturo		2015-XX-XX	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 uncabled Coastal Surface Piercing Profiler, which is required for Commissioning. It applies to Coastal Surface Piercing Profilers that are deployed at the Pioneer Inshore, Pioneer Central, Endurance Washington Inshore, Endurance Washington Shelf, and Endurance Oregon Inshore sites. This procedure does not apply to the cabled Coastal Surface Piercing Profiler deployed at the Endurance Oregon Shelf site.

This procedure is the Command & Control Capability Scenario (Section 4.4.2, Validation Test Plan for OOI Coastal Pioneer and Endurance Arrays – 1153-05000 and 1158-02000).

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

Test Location

Platforms will be deployed in their defined locations within the Coastal Pioneer and Endurance Arrays. Testers will be located where they have access (directly, via internet, or via WebEx) to the Coastal Pioneer or Endurance Array data, command and control software, and monitoring displays (e.g., the 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>
WET Labs JProfilerHost software	<to be filled in at time of test>
WET Labs JMAFileProcessor 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>
<Insert rows as needed>				

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 Coastal Surface Piercing Profiler Shore Server (AMPServer) and JProfilerHost and JMAFileProcessor software integrated.	<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	Redmine Issues (Identify issues found in this step)
A	Ship/Shore to Platform Communications							
A-1	Review deployment documentation to confirm the uncabled CSPP (uCSPP) is designed to be able to be controlled by ship/shore. Record document, date/time of comms	N/A						
A-2	Review initial mission plan for the uCSPP. Describe plan or attach details.	N/A						
A-3	Review data to confirm operational behavior of uCSPP conforms with defined mission plan.	N/A	Profile Summary window in JProfilerHost shows the profiling interval. CTD Pressure data from decimated files indicates profiling as per the plan					
A-4	Create revised mission plan for the uCSPP. Describe plan or attach details	N/A						
A-5	Issue commands to the uCSPP from OMC to change its mission Record date/time of platform receiving commands.	L3-CG-RQ-761					Use JProfilerHost instance installed on the OMC to change settings on a profiler. Use Auto Apply Settings to improve the chances that a command will be transferred to a profiler successfully	
A-6	Review data to confirm changed operational behavior of uCSPP conforms with revised mission plan	L3-CG-RQ-164	Results differ based on changes implemented. Some changes can be seen in JProfilerHost. Others will require analysis of the CTD data in a decimated science file.				The settings will be used on the next profile. Normally, these profilers run twice for four times a day, so this step can take a long time.	

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.)



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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)

Comments:

