

Test Case Map_Service_1.0

for the

AWIPS

Contract

DG133W-05-CQ-1067

DCN: AWP.TE.SWCTR/TO8-0023

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Revision History

Revision	Date	Affected Pages	Explanation of Change
1.0	5 December 07	ALL	Initial Release
2.0	17 January 08	3	PDT Redlines/NWS Comments
3.0	29 January 08	ALL	DT Redlines

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1.0 SCOPE

See Software Test Plan.

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2.0 APPLICABLE DOCUMENTS

2.1 Source Documents

- None

2.2 Reference Documents

- Software Test Plan for the Advanced Weather Information Processing System Project, Contract #DG133W-05-CQ-1067, 4 December 2007
- Section 2.1.6.4 of the AWIPS D-2D User's Manual Build 8.1
- Existing AWIPS 1 test procedures
- The VPN connection to the Silver Spring NWS AWIPS 1 test bed
- Release OB8.1 of the Weather Event Simulator (WES)

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3.0 TEST CASE DESCRIPTION

This test case illustrates the use of the Map Service through the display of topographic map data and gridded data for points and lines.

3.1 Assumptions, Constraints and Preconditions

- TO8 software has been installed successfully
- CAVE, EDEX and pgAdmin III are running
- Data has been ingested

3.2 Recommended Hardware

See Software Test Plan.

3.3 Test Inputs

Section 4.0 below contains the test procedures for this test case. Sections 2.2 – 2.9 of the Software Test Plan contain general test inputs applicable to all TO8 test cases.

3.4 Test Outputs

The images and data will be displayed in CAVE.

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4.0 TEST SCENARIO

Step	Action	Result	Pass/Fail
1.	Start CAVE.	CAVE starts.	
2.	Click the Baselines button in the toolbar.	10 baselines labeled A through J display in edit mode in CAVE.	
3.	Edit line 'E', allowing the line to extend from around northern Nevada (E) to around northern Illinois (E').	The line extends from northern NV to northern IL.	
4.	Create a cross section for Line E through the Volume Browser using an available model and grid parameter.	A cross section displays in the CAVE display.	
5.	Verify the slope of the topographic profile slopes from higher terrain to lower terrain from the left side of the display to the right side.	The slope of the terrain slopes from higher terrain to lower terrain panning from the left side of the display to the right.	
6.	Close the Cross Section tab. Clear the CAVE display.	The Cross Section tab closes. CAVE returns to a blank map in the 'Map' tab.	
7.	Load an available non-composite radar image (e.g., 0.5 Refl).	A radar image appears in CAVE.	
8.	Click mouse button 3 on the radar image and select 'Sample'.	The Sampling capability is activated.	
9.	Verify the data returned includes values for height above mean sea level (ftMSL) and height above ground level (ftAGL).	The Sampling values return values for height above mean sea level and height above ground level.	
10.	Clear the CAVE display.	CAVE clears.	
	End of test.		

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5.0 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)

Number	Description	Test Step(s)
AWIPS_TO8_025.2	AWIPS service shall provide topographic maps	ALL
AWIPS_TO8_025.2.1	The MapSrv shall provide a service to provide topographic map data for points	9
AWIPS_TO8_025.2.2	The MapSrv shall provide a service to provide topographic map data for lines	5

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