

Test Case Plot_Model_Maintenance_1.0

for the

AWIPS

Contract

DG133W-05-CQ-1067

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Revision History

Revision	Date	Affected Pages	Explanation of Change
1.0	5 December 07	ALL	Initial Release
2.0	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 2.1.6.6 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 demonstrates the display of surface plot data. This test case also demonstrates manipulating plot data via configuration files.

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.	From the Obs menu, select 'Surface Plot'.	The 'Station Plot' product loads in main pane.	
3.	Verify the station plots display the following where applicable: -temperature -dew point temperature -wind speed and direction -wind gust speeds -pressure -sky cover -present weather -METAR location	The station plots display the listed variables.	
4.	Click mouse button 3 and select the Sample option. Then hover the cursor on a station plot.	The raw METAR code for the station plot is displayed.	
5.	Zoom into the station plots in the main pane.	CAVE populates the display with additional station plots.	
6.	Zoom out of the station plots in the main pane.	CAVE removes station plots from the display.	
7.	From the tool bar, set the Magnification to 2.0.	The station plots become enlarged. CAVE removes station plots from the display.	
8.	From the tool bar, set the Magnification to 1.0.	The station plots become smaller. CAVE redisplay the removed station plots.	
9.	Click mouse button 1 on the 'CAVE' menu, select 'Edit Plot Model...'	The 'Plot Model Editor' window opens.	
10.	From the dropdown menu, select a plot model (stdObsDesign.svg).	The SVG appears in the 'Plot Model Editor' window.	
11.	Edit the SVG. Then click mouse button 1 on the 'Save' button. Then click OK in the 'Plot Model Saved' window.	Save the edited SVG is saved. The 'Plot Model Saved' window closes.	
12.	Close the 'Plot Model Editor' window. Then click mouse button 1 on the 'Clear' button in the tool bar.	The 'Plot Model Editor' window closes. The CAVE display clears.	
13.	Reload the station plot product. Verify the station plots were modified with the changes in the plot model.	The station plots display the changes.	
14.	Click mouse button 1 on the 'Clear' button in the tool bar.	The CAVE display clears.	
	End of test.		

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5.0 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)

Number	Description	Test Step(s)
CAVE_TO8_018	CAVE shall display Plot Model data	2
CAVE_TO8_018.1	CAVE shall geographically place plot model data on a map in CAVE	2
CAVE_TO8_018.1.1	CAVE shall populate the display with additional station plots as the user zooms into an area on the map	5
CAVE_TO8_018.1.2	CAVE shall depopulate the display removing station plots as the user zooms out of an area on the map	6
CAVE_TO8_018.1.3	CAVE shall populate the display with additional station plots when the user selects a lower magnification of the station plots	8
CAVE_TO8_018.1.4	CAVE shall depopulate the display removing station plots when the user selects a higher magnification of the station plots	7
CAVE_TO8_018.2	CAVE shall display hourly Station Plots (METARs) on a map	2
CAVE_TO8_018.2.1	The station plots shall display, at minimum (and where applicable), the temperature, dew point temperature, wind speed and direction, wind gust speeds, pressure, sky cover, present weather, and the METAR location	3
CAVE_TO8_018.30	CAVE shall allow the user to sample the plot products, displaying the raw code	4
CAVE_TO8_018.31	AWIPS shall allow the user to modify the plot model	9-13
ADE_TO4_003_011	CAVE shall display surface plot data using a successive disclosure-type algorithm	5-6

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