

Test Case GFE Aids (ai 001-025)

**for the
AWIPS
Contract
DG133W-05-CQ-1067**

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Revision History

Revision	Date	Affected Pages	Explanation of Change
1.0	27 July 2008	ALL	Initial Draft
2.0	8 August 2008	6-24	Redlines per PDT
3.0	4 September 2008	ALL	Redlines per DT

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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

- Legacy NWS GFE Acceptance Test Case ID Numbers: ai001 – ai025.
- Legacy NWS GFE Test Cases for Test Areas AC – VP.
- Section 3.1.3 of the AWIPS D-2D User's Manual Build 8.1.
- Software Test Plan for the Advanced Weather Information Processing System Project, Contract #DG133W-05-CQ-1067, August 2008.
- The Silver Spring NWS AWIPS 1 test bed application.
- Release OB8.1 and OB8.2 of the Weather Event Simulator (WES).
- Rational RequisitePro.

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3.0 TEST CASE DESCRIPTION

This test case verifies that the edit area NWS test cases.

3.1 Assumptions, Constraints and Preconditions

- Several weather elements are loaded
- There are multiple grids available for the weather elements (at minimum T, Td, Wind, Wx, and Hazards weather elements)
- TO9 software has been installed successfully
- CAVE, EDEX and pgAdmin III are running
- Data has been ingested
- Actions, Results, and Requirements highlighted in yellow indicate requirements and/or capabilities to be included in the scope of future task orders. They are included here for purposes of continuity and traceability with the original AWIPS I test case documents. Items highlighted in blue are capabilities added and/or Deficiency Reports (DRs) corrected since the Delivery Test.

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 TO9 test cases.

3.4 Test Outputs

The results outlined in section 4.0 are met.

3.4.1 GFE GUIs Tested

- TBD

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4.0 TEST SCENARIO

Step #	Action	Result	Pass/Fail
ai001 – Load and unload topography.			
1.	In CAVE, Mouse Button (MB) 1 click on the Perspectives icon  and select 'GFE'. Then go to step #3. If 'GFE' is not in the dropdown list, select 'Other' and continue to step #2..	The Open Perspective dialog appears. The GFE Perspective loads in CAVE. The Open Perspective dialog closes. The Open Perspective dialog appears.	
2.	MB1 click 'GFE'. Then MB1 click 'OK'.	The Open Perspective dialog closes. The GFE Perspective loads in CAVE.	
3.	MB1 click 'Maps' -> 'Topography' .	The Topography grid appears as an image. Topography appears highlighted in the Spatial Editor (SE) legend.	
4.	MB1 click 'Maps' -> 'Topography' (to deselect this entry).	The Topography grid is removed from SE display and legend.	
5.	MB1 click 'Maps' -> 'Topography' .	The Topography grid appears as an image. Topography appears highlighted in the Spatial Editor (SE) legend.	
6.	From the MB3 popup over the Topography item in the SE legend, select Unload.	The Topography grid is removed from SE display and legend.	
ai002 – Display topography as image and graphic, and do not display.			
7.	Ensure that 'GFE' -> 'Viewing Preferences' -> 'Image on Edit' is checked 'on'. Examine whether Topography appears in the SE.	'Image on Edit' is checked 'on'. Topography is not displayed in the SE.	
8.	MB1 click 'Maps' -> 'Topography' .	The Topography grid appears as an image. Topography appears highlighted in SE legend.	DR #1297
9.	MB1 click over the Topography item in the SE legend .	The Topography grid is no longer displayed. The legend entry is gray.	
10.	MB1 click over the Topography item in the SE legend.	The Topography grid again displays as an image.	
11.	From the MB3 popup over the Topography item in the SE legend, select 'Display as Graphic'.	The Topography grid displays as contours.	
12.	From the MB3 popup over the Topography item in the SE legend, select 'Display as Image'.	The Topography grid displays as an image.	
ai003 – Display maps			

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13.	With the default map backgrounds displayed in the SE, deselect all map checkboxes in the 'Maps' pull-down menu.	Only the default map backgrounds are displayed in the SE.	
14.	From the 'Maps' pull-down menu, select a line segment map (such as CWAs, States or Counties).	The map background displays in the SE.	
15.	From the 'Maps' pull-down menu, select a point map (such as Cities).	The map background is added to existing map background.	DR #1374
16.	From the 'Maps' pull-down menu, add several more map backgrounds.	Additional map backgrounds display in the SE.	
ai004 – Adding and removing sample points			
17.	Verify no sample values appear on the SE. Turn off the visibility of any Weather Element (WE) that may presently be visible in the SE.	No sample values appear on SE. No WEs are visible in the SE.	
18.	MB1 click 'Maps' -> 'Samples' and unselect 'Show Lat/Lon...' if selected.	The 'Show Lat/Lon...' selection is unchecked.	
19.	Select the Sample Tool (if not selected by default). MB1 click at several locations in the SE to create anchored samples.	Sample point indicators appear in the SE.	
20.	Turn on the visibility of a scalar WE, such as 'T'.	The temperature image displays in the SE. The values for the WE appear at all the sample points in the SE.	
21.	Turn on the visibility of a vector WE, such as 'Wind'.	The wind barbs and contours display in the SE. Each sample displays two values, a scalar and a vector.	
22.	Turn on the visibility of a weather WE, such as 'Wx'.	The weather elements display in the SE. Each sample displays three values, a scalar, a vector, and a weather.	DR #1302
23.	Turn on the visibility of a discrete WE, such as 'Hazards'.	The hazard element displays in the SE. Each sample displays four values, a scalar, vector, weather, and discrete.	
24.	Toggle the display so that no WE's visibility is set to image.	All WEs are displayed as contours. No difference from previous sample display.	
25.	Toggle the display so that a WE's visibility is set to image.	The selected WE displays as an image. No difference from previous sample display.	
26.	MB2 click at an existing sample point to remove it from the SE.	The sample point and its values removed from the display.	
27.	MB1 click at several more locations in the SE.	Sample points and their values display at these locations.	

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28.	MB1 drag within the SE.	Values at points along the path of the drag are displayed. No new samples are anchored by this operation.	
ai005 – Clear sample points			
29.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Clear’ .	All samples are removed from the SE.	
ai006 – Create a new sample set			
30.	With a grid visible in the SE and the Sample Tool activated, MB1 click on the SE to display some anchored samples.	Sample points display in the SE.	
31.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Save’ to invoke the Save Sample Set dialog . Enter a name that does not appear in the listbox. MB1 click the ‘Save’ button.	The Save Sample Set dialog opens. The Save Sample Set dialog is dismissed.	
32.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Save’ to invoke the Save Sample Set dialog.	The Save Sample Set dialog opens. The newly named sample set appears in the listbox.	
33.	Select Cancel to dismiss the Save Sample Set dialog.	The Save Sample Set dialog is dismissed.	
34.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Clear’ to clear the existing samples.	The sample points are removed from the SE.	
35.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Load’ to invoke the Load Sample Set dialog . Select the newly named sample set in the listbox. MB1 click the ‘Add’ button.	The Load Sample Set dialog opens. The Load Sample Set dialog is dismissed. The appropriate sample values appear in the SE.	
36.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Delete’ to invoke the Delete Sample Set dialog to remove the created sample set.	The Delete Sample Set dialog opens.	
37.	Select the newly named sample set and MB1 click the ‘Delete’ button. Then acknowledge the verification windows.	The Delete Sample Set dialog closes. The verification windows close. The sample points remain displayed in the SE.	
ai007 – Modify an existing sample set.			
38.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Clear’ to clear the existing samples.	The sample points are removed from the SE.	
39.	With a grid visible in the SE and the Sample Tool activated, MB1 click on the SE to display some anchored samples.	Sample points display in the SE.	

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40.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Save’ to invoke the Save Sample Set dialog . Enter a name that does not appear in the listbox. MB1 click the ‘Save’ button.	The Save Sample Set dialog opens. The Save Sample Set dialog is dismissed.	
41.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Clear’ to clear the existing samples.	The sample points are removed from the SE.	
42.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Load’ to invoke the Load Sample Set dialog . Select a named sample set in the listbox. MB1 click the ‘Add’ button.	The Load Sample Set dialog opens. The Load Sample Set dialog is dismissed, and the appropriate sample values appear in the SE.	
43.	With the Sample Tool activated, MB2 click on several sample points (not all) to remove sample points. MB1 click elsewhere in the SE to add several sample points. Note: The tester needs to be able to distinguish this new sample set from the previously loaded sample set.	Several sample points are removed from the SE. Several sample points are added to the SE.	
44.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Save’ to invoke the Save Sample Set dialog . Select the same named sample set, and select the ‘Save’ button to dismiss the dialog.	The Save Sample Set dialog displays. The Save Sample Set dialog closes.	
45.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Clear’ to clear the existing samples.	The sample points are removed from the SE.	
46.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Load’ to invoke the Load Sample Set dialog . Select the same named sample set in the listbox. MB1 click the ‘Add’ button.	The Load Sample Set dialog opens. The Load Sample Set dialog is dismissed. The appropriate sample values for the modified sample set appear in the SE.	
47.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Delete’ to invoke the Delete Sample Set dialog to remove the created sample set.	The Delete Sample Set dialog opens.	
48.	Select the newly named sample set and MB1 click the ‘Delete’ button. Then acknowledge the verification windows.	The Delete Sample Set dialog closes. The verification windows close. The sample points remain displayed in the SE.	
ai008 – Try to name a new sample set with all keyboard characters			

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49.	Add or remove sample points to the SE. Then MB1 click ‘Maps’ -> ‘Samples’ -> ‘Save’ to invoke the Save Sample Set dialog . Enter a name that includes every non-alphabetic keyboard character. MB1 click the ‘Save’ button. Then MB1 click ‘Maps’ -> ‘Samples’ -> ‘Clear’ to clear the displayed samples.	The sample points are modified. The Save Sample Set dialog opens. The Save Sample Set dialog is dismissed. The sample points are removed from the SE.	
50.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Load’ to invoke the Load Sample Set dialog . Check that the newly named sample set is in the listbox.	The Load Sample Set dialog opens. The name appears since every character is valid to use in a sample name.	DR #1373
51.	Select the same named sample set in the listbox. MB1 click the ‘Add’ button.	The Load Sample Set dialog is dismissed. The appropriate sample values for the modified sample set appear in the SE.	
ai009 – Delete an existing sample set.			
52.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Delete’ to invoke the Delete Sample Set dialog .	The Delete Sample Set dialog opens.	
53.	Select the named sample set and MB1 click the ‘Delete’ button. Then acknowledge the verification windows.	The Delete Sample Set dialog closes. The verification windows close. The sample points remain displayed in the SE.	
54.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Load’ to invoke the Load Sample Set dialog . Inspect the named sample sets in the listbox. Then close the Sample Set dialog.	The Load Sample Set dialog opens. The deleted sample set should not appear in the listbox. The Sample Set dialog closes.	
ai010 – Add, remove, and replace sample sets.			
55.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Clear’ to clear the existing samples.	The sample points are removed from the SE.	
56.	Create three distinguishable sample sets with the names using the Sample Tool and saving the sets through the ‘Maps’ -> ‘Samples’ -> ‘Save’ dialog . sample_1 sample_2 sample_3	The three sample sets are created.	
57.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Clear’ to clear the existing samples.	The sample points are removed from the SE.	
58.	MB1 click ‘Maps’ -> ‘Samples’ -> ‘Load’ to invoke the Load Sample Set dialog . Select the sample_1 in the listbox. MB1 click the ‘Add’ button.	The Load Sample Set dialog opens. The Load Sample Set dialog is dismissed. The appropriate sample values for sample_1 appear in the SE.	

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59.	MB1 click ' Maps ' -> ' Samples ' -> ' Load ' to invoke the Load Sample Set dialog . Select 'sample_2' in the listbox. MB1 click the 'Add' button.	The Load Sample Set dialog opens. The Load Sample Set dialog is dismissed. The appropriate sample values for the union of sample_1 and sample_2 appear in the SE.	
60.	MB1 click ' Maps ' -> ' Samples ' -> ' Load ' to invoke the Load Sample Set dialog . Select 'sample_1' in the listbox. MB1 click the 'Remove' button.	The Load Sample Set dialog opens. The Load Sample Set dialog is dismissed. All sample points that were defined in sample_1 are removed from the SE. All sample points that were defined in sample_2 remain displayed in the SE.	
61.	MB1 click ' Maps ' -> ' Samples ' -> ' Load ' to invoke the Load Sample Set dialog . Select 'sample_3' in the listbox. MB1 click the 'Replace' button.	The Load Sample Set dialog opens. The Load Sample Set dialog is dismissed. All previously displayed sample points are removed and replaced with those from sample_3.	
62.	MB1 click ' Maps ' -> ' Samples ' -> ' Clear ' to clear the existing samples.	The sample points are removed from the SE.	
63.	MB1 click ' Maps ' -> ' Samples ' -> ' Delete ' to invoke the Delete Sample Set dialog to remove a sample set.	The Delete Sample Set dialog opens.	
64.	Select the 'sample_1' sample set and MB1 click the 'Delete' button. Then acknowledge the verification windows.	The Delete Sample Set dialog closes. The verification windows close.	
65.	Repeat steps 63 and 64 to delete the sample_2, and sample_3 sample sets.	Refer to the results in steps 63 and 64.	
66.	MB1 click ' Maps ' -> ' Samples ' -> ' Load ' to invoke the Load Sample Set dialog . Inspect the named sample sets in the listbox.	The Load Sample Set dialog opens. The deleted sample sets should not appear in the listbox.	
ai011 – Viewing sample points in ISC mode with grids in ISC area, with ISC update time, ISC site ID, and ISC Official DB checkboxes on			
67.	Clear any samples that might appear on the SE through Maps -> Samples -> Clear .	No sample values should appear on SE	
68.	Turn off the visibility of any WEs that may presently be visible in the SE using MB1 on the SE legend .		

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69.	Turn on ISC mode by selecting the Toggle ISC Mode button in the toolbar. Ensure that the following checkboxes are on: Maps -> Samples -> Show ISC Update Times on Data Samples Maps -> Samples -> Show ISC Site ID on Data Samples Maps -> Samples -> Show ISC Official DB Symbol on Data Samples		
70.	Select the Sample Tool (if not selected by default). MB1 click at several locations in the SE that are within the surrounding ISC sites for which grids exist (ensure that the current GFE time intersects with these grids for several WEs).	Sample point indicators appear in the SE.	
71.	Turn on the visibility of a WE through the SE Legends , for which an <i>intersecting grid in the ISC area exists</i> .	The values for this WE appear at all the sample points in the SE with the corresponding update time, site ID, and official DB symbol displayed. If you choose a sample point where there is no ISC grids available, the samples will show <NoData>.	
72.	Turn on the visibility of a second WE.	Each sample now displays two values, with the corresponding update time, site ID, and official DB symbol.	
73.	Turn on the visibility of a third WE.	Each sample now displays three values, with the corresponding update time, site ID, and official DB symbol.	
ai012 – Viewing sample points in ISC mode with no grids in ISC area, ISC update time and ISC site ID checkboxes on			
74.	Invoke the GFE by issuing the runGFE command.	No sample values should appear on SE	
75.	Turn off the visibility of any WEs that may presently be visible in the SE. Turn on ISC mode by selecting the Toggle ISC Mode button in the toolbar. Ensure that the following checkboxes are on: Maps -> Samples -> Show ISC Update Times on Data Samples Maps -> Samples -> Show ISC Site ID on Data Samples		

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76.	Select the Sample Tool (if not selected by default).		
77.	Button 1 click at several locations in the SE that are within the surrounding ISC sites for which no grids exist	Sample point indicators appear in the SE.	
78.	Turn on the visibility of a WE.	The values for this WE at all the sample points is <NoData>.	
79.	Turn on the visibility of a second WE.	Each sample now displays two values of <NoData>.	
ai013 – Viewing ISC markers in ISC mode with grids in ISC area, with ISC update time, ISC site ID, and ISC Official DB symbol checkboxes off			
80.	Clear any samples that might appear on the SE through Maps -> Samples -> Clear .	No sample values should appear on SE	
81.	Turn off the visibility of any WEs that may presently be visible in the SE using MB1 on the SE legend . Turn on ISC mode by selecting the Toggle ISC Mode button in the toolbar.		
82.	Ensure that the following checkbox is on: Maps -> ISC Markers -> Show ISC Markers		
83.	Ensure that the following checkboxes are off: Maps -> ISC Markers -> Show ISC Update Times on Marker Maps -> ISC Markers -> Show ISC Site ID on Marker Maps -> ISC Markers -> Show ISC Official DB Symbol on Marker	No ISC Markers appear in the SE.	
84.	Turn on the visibility of a WE for which no intersecting grid in the ISC area exists (from another WFO); use the Grid Manager to determine this situation:	Only the <NoData> indicator appears.	
85.	Switch the spatial editor time using MB1 click on the Time Scale to a time where there is an intersecting Fcst and ISC grid.	The ISC marker disappears in the area of the ISC grid from another WFO.	
86.	Turn on the following checkbox: Maps -> ISC Markers -> Show ISC Update Times on Marker .	The ISC marker appears for the area outside your WFO where there is a grid, the update time is displayed, but the site ID and Official DB symbol are not displayed.	

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87.	Turn off the following checkbox: Maps -> ISC Markers -> Show ISC Update Times on Marker Turn on the following checkbox: Maps -> ISC Markers -> Show ISC Site ID on Marker	The ISC marker remains visible. The site ID is displayed, but the update time and Official DB Symbol are not displayed.	
88.	Turn on the following checkbox: Maps -> ISC Markers -> Show ISC Official DB Symbol on Marker	The ISC marker remains visible. The site ID and Official DB Symbol are displayed, but the update time is not displayed. Note that the official DB symbol (P) will only appear if the ISC data came from the remote site's Official database.	
ai014 – Viewing ISC Markers in ISC mode with no grids in ISC area, ISC update time and ISC site ID checkboxes on			
89.	Clear any samples that might appear on the SE through Maps -> Samples -> Clear .	No sample values should appear on SE	
90.	Turn off the visibility of any WEs that may presently be visible in the SE using MB1 on the SE legend . Turn on ISC mode by selecting the Toggle ISC Mode button in the toolbar.		
91.	Ensure that the following checkboxes are on: Maps -> ISC Markers -> Show ISC Markers Maps -> ISC Markers -> Show ISC Update Times on Marker Maps -> ISC Markers -> Show ISC Site ID on Marker Maps -> ISC Markers -> Show ISC Official DB Symbol on Marker		
92.	Turn on the visibility of a WE using MB1 click on the SE Legend .	The values for this WE at all marker points where no ISC data is present is '<NoData>'	
93.	Turn on the visibility of a second WE using MB1 click on the SE Legend .	Each marker (that has no associated ISC data) now displays two values of '<NoData>'	
ai015 – To test the PopulateFromClimo 'Significant Messages' alert banner.			
94.	From the WeatherElement menu on the GFE main menu, select Weather Element Browser... The Weather Element Browser opens.		
95.	From the Edit menu, select Select None .		

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96.	Select Load and Dismiss .		
97.	From the Populate menu on the GFE main menu, select PopulateFromClimo . The PopulateFromClimo window opens.		
98.	Under Weather Element, select MaxT .		
99.	Under Climo Source, select PRISM .		
100.	Select Run/Dismiss .		
101.	Verify that the Significant Messages alert banner appears. Verify that the Significant Messages alert banner reads ' Please select a MinT or MaxT timeRange to populate '. Select Acknowledge All . Note: If the Significant Messages alert banner does not appear, then the test fails.		
102.	Exit the GFE.		
ai016 – To test the PopulateFromClimo procedure using MaxT and PRISM climate data.			
103.	From the WeatherElement menu on the GFE main menu, select Weather Element Browser.... The Weather Element Browser opens.		
104.	From the Edit menu, select Select None .		
105.	Under Types, select IFP .		
106.	Under Sources, select Fcst .		
107.	Under Fields, select MaxT .		
108.	Under Planes, select SFC .		
109.	Select Load and Dismiss .		
110.	In the Grid Manager starting on December 15th, use ' MB1 drag ' to select the next 30 days of MaxT climate data.		
111.	From the Populate menu on the GFE main menu, select PopulateFromClimo . The PopulateFromClimo window opens.		
112.	Under Weather Element, select MaxT .		
113.	Under Climo Source, select PRISM .		
114.	Select Run/Dismiss .		
115.	In the Grid Manager, use MB1 to select the first MaxT grid starting on December 15th.		
116.	From the Color Bar (above the Spatial Editor), click MB3 and select Fit To Data - > All Grids .		
117.	In the Spatial Editor, select the Sample Tool (). Click MB1 several times over the map to display MaxT data points.		

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118.	In the Grid Manager, click MB1 on the first MaxT grid. Use the right arrow key on the keyboard to step through the 30 day forecast grid period. Verify the selected MaxT data points (from step 14) decrease with time and that the ‘cooler’ temperature colors ‘move in’ with time.		
119.	Exit the GFE.		
ai017 – To test the PopulateFromClimo procedure using MinT and PRISM climate data.			
120.	From the WeatherElement menu on the GFE main menu, select Weather Element Browser.... The Weather Element Browser opens.		
121.	From the Edit menu, select Select None.		
122.	Under Types, select IFP.		
123.	Under Sources, select Fcst.		
124.	Under Fields, select MinT.		
125.	Under Planes, select SFC.		
126.	Select Load and Dismiss.		
127.	In the Grid Manager starting on December 15th, use ‘ MB1 drag ’ to select the next 30 days of MinT climate data.		
128.	From the Populate menu on the GFE main menu, select PopulateFromClimo. The PopulateFromClimo window opens.		
129.	Under Weather Element, select MinT.		
130.	Under Climo Source, select PRISM.		
131.	Select Run/Dismiss.		
132.	In the Grid Manager, use MB1 to select the first MaxT grid starting on December 15th.		
133.	From the Color Bar (above the Spatial Editor), click MB3 and select Fit To Data - > All Grids.		
134.	In the Spatial Editor, select the Sample Tool (). Click MB1 several times over the map to display MinT data points.		
135.	In the Grid Manager, click MB1 on the first MinT grid. Use the right arrow key on the keyboard to step through the 30 day forecast grid period. Verify the selected MinT data points (from step 14) decrease with time and that the ‘cooler’ temperature colors ‘move in’ with time.		

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136.	Exit the GFE.		
ai018 – To test the PopulateFromClimo procedure using MaxT and NCDC climate data.			
137.	From the WeatherElement menu on the GFE main menu, select Weather Element Browser.... The Weather Element Browser opens.		
138.	From the Edit menu, select Select None.		
139.	Under Types, select IFP.		
140.	Under Sources, select Fcst.		
141.	Under Fields, select MaxT.		
142.	Under Planes, select SFC.		
143.	Select Load and Dismiss.		
144.	In the Grid Manager starting on June 15th, use ' MB1 drag ' to select the next 30 days of MaxT climate data.		
145.	From the Populate menu on the GFE main menu, select PopulateFromClimo. The PopulateFromClimo window opens.		
146.	Under Weather Element, select MaxT.		
147.	Under Climo Source, select NCDC.		
148.	Select Run/Dismiss.		
149.	In the Grid Manager, use MB1 to select the first MaxT grid starting on June 15th.		
150.	From the Color Bar (above the Spatial Editor), click MB3 and select Fit To Data - > All Grids.		
151.	In the Spatial Editor, select the Sample Tool (). Click MB1 several times over the map to display MaxT data points.		
152.	In the Grid Manager, use the right arrow key on the keyboard to step through the 30 day forecast grid period. Verify the selected MaxT data points (from step 15) increase with time and that the 'warmer' temperature colors 'move in' with time.		
153.	Exit the GFE.		
ai019 – To test the PopulateFromClimo procedure using MinT and NCDC climate data.			
154.	From the WeatherElement menu on the GFE main menu, select Weather Element Browser.... The Weather Element Browser opens.		
155.	From the Edit menu, select Select None.		
156.	Under Types, select IFP.		

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157.	Under Sources, select Fcst .		
158.	Under Fields, select MinT .		
159.	Under Planes, select SFC .		
160.	Select Load and Dismiss .		
161.	In the Grid Manager starting on June 15th, use ' MB1 drag ' to select the next 30 days of MinT climate data.		
162.	From the Populate menu on the GFE main menu, select PopulateFromClimo . The PopulateFromClimo window opens.		
163.	Under Weather Element, select MinT .		
164.	Under Climo Source, select NCDC .		
165.	Select Run/Dismiss .		
166.	In the Grid Manager, use MB1 to select the first MinT grid starting on June 15th.		
167.	From the Color Bar (above the Spatial Editor), click MB3 and select Fit To Data - > All Grids .		
168.	In the Spatial Editor, select the Sample Tool (). Click MB1 several times over the map to display MinT data points.		
169.	In the Grid Manager, use the right arrow key on the keyboard to step through the 30 day forecast grid period. Verify the selected MinT data points (from step 15) increase with time and that the 'warmer' temperature colors 'move in' with time.		
170.	Exit the GFE.		
ai020 – To test the DiffFromClimo procedure using MaxT and PRISM climate data.			
171.	From the WeatherElement menu on the GFE main menu, select Weather Element Browser.... The Weather Element Browser opens.		
172.	From the Edit menu, select Select None .		
173.	Under Types, select IFP .		
174.	Under Sources, select Fcst .		
175.	Under Fields, select MaxT .		
176.	Under Planes, select SFC .		
177.	Select Load and Dismiss .		
178.	In the Grid Manager, use ' MB1 drag ' to select a couple days of MaxT climate data.		

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179.	From the Populate menu on the GFE main menu, select PopulateFromClimo . The PopulateFromClimo window opens.		
180.	Under Weather Element, select MaxT .		
181.	Under Climo Source, select PRISM .		
182.	Select Run/Dismiss .		
183.	From the Populate menu on the GFE main menu, select DiffFromClimo . The DiffFromClimo window opens.		
184.	Under Weather Element, select MaxT .		
185.	Under Climo Source, select PRISM .		
186.	Select Run/Dismiss .		
187.	In the Grid Manager, use MB1 to select a MaxTDiffFromClimo grid.		
188.	In the Spatial Editor, select the Sample Tool (). Use 'MB1 drag' over the map to verify that the difference between the MaxT and MaxTDiffFromClimo grids is '0'. Note: acceptable values range from -2 to +2 degrees - since roundoff errors can occur. Note: If the difference between the MaxT and MaxTDiffFromClimo grids is not around zero, then the test fails.		
189.	Exit the GFE.		
ai021 – To test the DiffFromClimo procedure using MaxT and NCDC climate data.			
190.	From the WeatherElement menu on the GFE main menu, select Weather Element Browser.... The Weather Element Browser opens.		
191.	From the Edit menu, select Select None .		
192.	Under Types, select IFP .		
193.	Under Sources, select Fcst .		
194.	Under Fields, select MaxT .		
195.	Under Planes, select SFC .		
196.	Select Load and Dismiss .		
197.	In the Grid Manager, use 'MB1 drag' to select a couple days of MaxT climate data.		
198.	From the Populate menu on the GFE main menu, select PopulateFromClimo . The PopulateFromClimo window opens.		
199.	Under Weather Element, select MaxT .		
200.	Under Climo Source, select NCDC .		

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201.	Select Run/Dismiss .		
202.	From the Populate menu on the GFE main menu, select DiffFromClimo . The DiffFromClimo window opens.		
203.	Under Weather Element, select MaxT .		
204.	Under Climo Source, select NCDC .		
205.	Select Run/Dismiss .		
206.	In the Grid Manager, use MB1 to select a MaxTDiffFromClimo grid.		
207.	In the Spatial Editor, select the Sample Tool (). Use 'MB1 drag' over the map to verify that the difference between the MaxT and MaxTDiffFromClimo grids is '0'. Note: acceptable values range from -2 to +2 degrees - since roundoff errors can occur. Note: If the difference between the MaxT and MaxTDiffFromClimo grids is not around zero, then the test fails.		
208.	Exit the GFE.		
ai022 – To test the DiffFromClimo procedure using MinT and PRISM climate data.			
209.	From the WeatherElement menu on the GFE main menu, select Weather Element Browser... The Weather Element Browser opens.		
210.	From the Edit menu, select Select None .		
211.	Under Types, select IFP .		
212.	Under Sources, select Fcst .		
213.	Under Fields, select MinT .		
214.	Under Planes, select SFC .		
215.	Select Load and Dismiss .		
216.	In the Grid Manager, use 'MB1 drag' to select a couple days of MinT climate data.		
217.	From the Populate menu on the GFE main menu, select PopulateFromClimo . The PopulateFromClimo window opens.		
218.	Under Weather Element, select MinT .		
219.	Under Climo Source, select PRISM .		
220.	Select Run/Dismiss .		
221.	From the Populate menu on the GFE main menu, select DiffFromClimo . The DiffFromClimo window opens.		
222.	Under Weather Element, select MinT .		

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223.	Under Climo Source, select PRISM .		
224.	Select Run/Dismiss .		
225.	In the Grid Manager, use MB1 to select a MinTDiffFromClimo grid.		
226.	In the Spatial Editor, select the Sample Tool (). Use ‘ MB1 drag ’ over the map to verify that the difference between the MinT and MinTDiffFromClimo grids is ‘ 0 ’. Note: acceptable values range from -2 to +2 degrees - since roundoff errors can occur. Note: If the difference between the MaxT and MaxTDiffFromClimo grids is not around zero, then the test fails.		
227.	Exit the GFE.		
ai023 – To test the DiffFromClimo procedure using MinT and NCDC climate data.			
228.	From the WeatherElement menu on the GFE main menu, select Weather Element Browser... The Weather Element Browser opens.		
229.	From the Edit menu, select Select None .		
230.	Under Types, select IFP .		
231.	Under Sources, select Fcst .		
232.	Under Fields, select MinT .		
233.	Under Planes, select SFC .		
234.	Select Load and Dismiss .		
235.	In the Grid Manager, use ‘ MB1 drag ’ to select a couple days of MinT climate data.		
236.	From the Populate menu on the GFE main menu, select PopulateFromClimo . The PopulateFromClimo window opens.		
237.	Under Weather Element, select MinT .		
238.	Under Climo Source, select NCDC .		
239.	Select Run/Dismiss .		
240.	From the Populate menu on the GFE main menu, select DiffFromClimo . The DiffFromClimo window opens.		
241.	Under Weather Element, select MinT .		
242.	Under Climo Source, select NCDC .		
243.	Select Run/Dismiss .		
244.	In the Grid Manager, use MB1 to select a MinTDiffFromClimo grid.		

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245.	In the Spatial Editor, select the Sample Tool (). Use 'MB1 drag' over the map to verify that the difference between the MinT and MinTDiffFromClimo grids is '0'. Note: acceptable values range from -2 to +2 degrees - since roundoff errors can occur. Note: If the difference between the MaxT and MaxTDiffFromClimo grids is not around zero, then the test fails.		
246.	Exit the GFE.		
ai024 – logstream.py logging			
247.	Note: Logging is part of Eclipse		
ai025 – Separate out topo, maps, and climate data from main GFE distribution.			
248.	Installations are now separated into four packages. Previously all data and the core GFE were in one package. The four packages are: CORE GFE, Map Shapefiles, Topography Data, and Climatology Data. To verify the new installation procedure, review the Installation Procedure in the INSTALLATION.html document.		
249.	The installation procedure now shows the topo, maps, and climate data installation separated out from the main GFE install in the following sections of the INSTALLATION.html document: AWIPS Installation section Sample AWIPS GFE installation log Manual Installation section Installation on non-AWIPS Hardware		
250.	Verify that the 'package' for GFE contains the four components (GFE CORE, Map Shapefiles, Topography Data, and Climatology Data. This is verifying the existence of the four 'packages'.		
251.	For further verification, if desired, perform an installation on a workstation using the non-AWIPS hardware procedure here in the installation document:		

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252.	<p>If an unwanted installation was performed in step 2, remove the installation:</p> <p style="text-align: center;">rm -rf installDirectory</p> <p>An example of the commands are:</p> <p style="text-align: center;">rm -rf ~/release</p>		
	End of test.		

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5.0 REQUIREMENTS VERIFICATION TRACEABILITY MATRIX (RVTM)

Number	Description	Test Step(s)
SYSR2120	The AWIPS GFESuite shall Load and unload topography.	1-6
SYSR2121	The AWIPS GFESuite shall Display topography as image and graphic, and do not display.	7-12
SYSR2122	The AWIPS GFESuite shall Display maps.	13-16
SYSR2123	The AWIPS GFESuite shall enable the user to Add and remove sample points.	17-28
SYSR2124	The AWIPS GFESuite shall enable the user to Clear sample points.	29
SYSR2125	The AWIPS GFESuite shall enable the user to Create a new sample set.	30-37
SYSR2126	The AWIPS GFESuite shall enable the user to Modify an existing sample set.	38-48
SYSR2127	The AWIPS GFESuite shall enable the user to name a new sample set with all keyboard characters.	49-51
SYSR2128	The AWIPS GFESuite shall enable the user to Delete an existing sample set.	52-54
SYSR2129	The AWIPS GFESuite shall enable the user to Add, remove, and replace sample sets.	55-66
SYSR2130	The AWIPS GFESuite shall enable the user to View sample points in ISC mode with grids in ISC area, with ISC update time, ISC site ID, and ISC Official DB checkboxes on.	67-73
SYSR2131	The AWIPS GFESuite shall enable the user to View sample points in ISC mode with no grids in ISC area, ISC update time and ISC site ID checkboxes on.	74-79
SYSR2132	The AWIPS GFESuite shall enable the user to View ISC markers in ISC mode with grids in ISC area, with ISC update time, ISC site ID, and ISC Official DB symbol checkboxes off.	80-88
SYSR2133	The AWIPS GFESuite shall enable the user to View ISC Markers in ISC mode with no grids in ISC area, ISC update time and ISC site ID checkboxes on.	89-93
SYSR2134	The AWIPS GFESuite shall implement the PopulateFromClimo 'Significant Messages' alert banner.	94-102
SYSR2135	The AWIPS GFESuite shall implement the PopulateFromClimo procedure using MaxT and PRISM climate data.	103-119
SYSR2136	The AWIPS GFESuite shall implement the PopulateFromClimo procedure using MinT and PRISM climate data.	120-136
SYSR2137	The AWIPS GFESuite shall implement the PopulateFromClimo procedure using MaxT and NCDC climate data.	137-153
SYSR2138	The AWIPS GFESuite shall implement the PopulateFromClimo procedure using MinT and NCDC climate data.	154-170
SYSR2139	The AWIPS GFESuite shall implement the DiffFromClimo procedure using MaxT and PRISM climate data.	171-189
SYSR2140	The AWIPS GFESuite shall implement the DiffFromClimo procedure using MaxT and NCDC climate data.	190-208
SYSR2141	The AWIPS GFESuite shall implement the DiffFromClimo procedure using MinT and PRISM climate data.	209-227
SYSR2142	The AWIPS GFESuite shall implement the DiffFromClimo procedure using MinT and NCDC climate data.	228-246
SYSR2143	The AWIPS GFESuite shall implement logstream.py logging	247
SYSR2144	The AWIPS GFESuite shall Separate out topo, maps, and climate data from main GFE distribution.	248-252

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