Release: Baseline	**Test Case Creation Engineer:** Will Leverenz
Title: Display Cross Section Model Data from Volume Browser	**Date Test Case Created:** 01/26/2006
Test Case Execution Engineer:	**Pass/Fail/Pending:**
Test Platform:	**Total Test Time:**
Start Date:	**Run Time for processes or reports:**
Complete Date:	**Database Instance and Version:**
Logged in User's Role:	**Location of Test Artifacts for this test case:**
Notification Server Version:	**CI:**
Last Modified By: Scott Nicholson	
Date Modified: 8/21/09	

Test Case #: **D2D_VB_Xsect_M**

Test Case Description

This test case demonstrates the capability of AWIPS to display a representative sample of cross section model products from available models.

- Requirements:
    - Not Applicable.
- Data Input:
    - Not Applicable.
- Prerequisite Conditions:
    - The tester must log on to a graphics workstation (LX) with valid username and password.
    - The AWIPS system is in an operational state.

Step #	Action / Inputs	Expected Outputs	Pass(P)/ Fail(F) Pending (Pen)	DR #, Name, Description for failed step	Special Needs / Comments
1.	Open a D-2D session.	The D-2D is opened.			
2.	Use the S**cale** pull-down menu (left side of toolbar) and select **CONUS**.	Map scale changes to CONUS.			
3.	From the **Frames** pull-down menu (right side of toolbar), select the highest number of frames **32** or **64**.	Number of frames available becomes 32 or 64.			
4.	In order to do a Cross Section you must select an area to sample. On the D2D toolbar select the **Baseline** button (has an image of three lines).	The Interactive Baselines appear (ABCDEFGHIJ).			
5.	Observe the baselines and choose the one that is to be used to make the cross section. To move the baseline, move the mouse over the center of the line, left click, hold, move the mouse, and let go at the desired location. To move a point on line, move the mouse over a vertex, left click, hold, move the mouse, and let go at desired location.	Line and/or vertex moves to desired location. Record the line ID letter ____			
6.	From the **Volume** menu, select **Browser**.	The Volume Browser window opens.			
7.	If necessary, the user may remove selected items from the Volume Browser by using the Clear options under the Edit menu. It is possible to clear all or just a Source, Field, or Plane. If a Source, Field, or Plane is cleared the products in the product list will also be cleared.	Selections are removed.			

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8.	In the **Volume Browser** select **Cross-section** from the pull-down menu labeled **Plan View**.	The Volume Browser size and options change.			
9.	In the **Volume Browser** select a **Source** with a green indicator from the **Grid** list.	Source shows up highlighted (gray) in the Source selection list.			**Variance: The Source is highlighted gray rather than yellow.** **Variance: The available Sources have a green indicator rather than the entire Source in green text.**

Step #	Action / Inputs	Expected Outputs	Pass(P)/ Fail(F) Pending (Pen)	DR #, Name, Description for failed step	Special Needs / Comments
10.	In the Volume Browser select a field from one of the lists (Basic, Derived, Other). Select a field with a green indicator in the menu. NOTE: Many of the submenus are without a green indicator, but there may be available fields under them to select.	Field shows up highlighted (gray) in the Field selection list.			**Variance: The Field is highlighted gray rather than yellow.** **Variance: The available Fields have a green indicator rather than the entire Field in green text.** **Derived and Other Fields - Slice 6**
11.	In the **Volume Browser** select a **Plane** with a green indicator from one of the lists (**Lon, Lat, and Specified**). Under the specified pull-down, there are options to select lines. A baseline may be selected or a latitude or longitude line may be selected.	Plane shows up highlighted (gray) in the plane selection list; product shows up highlighted (gray) in the product selection list.			**Variance: The Plane is highlighted gray rather than yellow.** **Variance: The available Planes have a green indicator rather than the entire Plane in green text.**

Step #	Action / Inputs	Expected Outputs	Pass(P)/ Fail(F) Pending (Pen)	DR #, Name, Description for failed step	Special Needs / Comments
12.	From time to time **toggle** between **Time** and **Space**. The pull-down menu for that is located next to the **View** pull-down menu.	This will toggle between loading each frame sequencing in time (model initiation through forecast hours) and space (east to west, north to south).			
13.	Also, **toggle** between the different **logarithmic scales**.	Logarithmic scales are altered. This will change the way that the Z-axis (height) is set up.			
14.	In the **Volume Browser** select the **Load** button at the bottom.	Product is loaded in the main pane as a graphic. It defaults to the last frame.		DR #828 DR #1879 DR #2127	
15.	Close the **Volume Browser** by selecting **File** -> **Exit**.	Volume Browser closes.			
16.	View all the frames (model forecast times) by using the **arrow keys** on the keyboard or toolbar and make sure the date displays correctly and with the right time stamp. The model data should step every 1-3hrs for **RUC**, 3hrs for **NAM**, 6hrs for **GFS** and **NGM**.	The model data should change from frame to frame. Generally, most features between 60N and 20N latitude will move west to east most of the time.		DR #867	
17.	Click on **Clear** on the D2D toolbar menu.	Product is cleared from the main pane.			
18.	Repeat steps 4-17, sampling different sources, fields, and planes.	Samples of the available products were loaded individually.			
19.	Click **Clear** on the D2D toolbar menu.	Product is cleared from the main pane.			
20.	Click on **File -> Exit**	The application closes and the test case is completed.			