

## AE IV&V Test Case: Baseline CAVE VB Cross Section

### Revision History

Rev. No.	Date	By	Description of Changes
0	16-apr-2008	S. Davison	Adapted from AWIPS OB8.1 test case: SIT_Baseline_D2D_VB_Xsect

### Test Case Identifier

Baseline CAVE VB Cross Section

### Narrative

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

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Step #	Action / Inputs	Expected Outputs	Pass(P)/ Fail(F) Pending (Pen)	DR #, Name, Description for failed step	Special Needs / Comments
1.	Start CAVE	CAVE system launches.			
2.	If CAVE is already open, clear the main pane.	Main pane is cleared.			
3.	Use the <b>scale</b> pull-down menu (left side of toolbar) and select <b>CONUS</b> . The default option is CONUS.	Map scale changes to CONUS.			
4.	From the <b>Frames</b> pull-down menu (right side of toolbar), select 64	Number of frames becomes 64.			
5.	In order to do a cross section you must select an area to sample. On the CAVE toolbar select the <b>baseline</b> button (has an image of three lines).	The Interactive Baselines appear (ABCDEFGHIJ).			
6.	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, right click, hold, move the mouse, and let go at the desired location. To move a vertex (point on line, move the mouse over a vertex, right click, hold, move the mouse, and let go at desired location. Remember the <b>line ID letter</b> .	Line and/or vertex moves to desired location.  Record the line ID letter ____			
7.	From the <b>Volume</b> menu, select <b>Browser</b> .	The Volume Browser window opens.			

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8.	In the <b>Volume Browser</b> select <b>Cross-section</b> from the pull-down menu labeled <b>Plan View</b> .	The Volume Browser size and options change.			
9.	In the <b>Volume Browser</b> select a <b>source</b> from the <b>Grid</b> list.	Source shows up highlighted in the source selection list.			
10.	In the <b>Volume Browser</b> select a <b>field</b> from one of the lists ( <b>Basic, Derived, Other</b> ). Select a green colored field in the menu. NOTE: Many of the submenus are colored black, but there may be green fields under them to select.	Field shows up highlighted in the field selection list.			
11.	In the <b>Volume Browser</b> select a <b>plane</b> from one of the lists ( <b>Lon, Lat, and Specified</b> ). 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 in the plane selection list; product shows up highlighted in the product selection list.			
12.	From time to time <b>toggle</b> between <b>time</b> and <b>space</b> . The pull-down menu for that is located next to the <b>view</b> 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, <b>toggle</b> between the different <b>logarithmic scales</b> .	Logarithmic scales are altered. This will change the way that the Z-axis (height) is set up.			

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14.	In the <b>Volume Browser</b> select the <b>Load</b> button at the bottom.	Product is loaded in the main pane as a graphic. It defaults to the last frame.			
15.	Close the <b>Volume Browser</b> : under <b>File</b> select <b>Exit</b> .	Volume Browser closes.			
16.	View all the frames (model forecast times) by using the <b>arrow keys</b> 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 <b>RUC</b> , 3hrs for <b>NAM</b> , 6hrs for <b>GFS</b> and <b>NGM</b> .	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.			
17.	Click on <b>clear</b> on the CAVE toolbar menu.	Product is cleared from the main pane.			
18.	To remove selected items from the <b>volume browser</b> , use the <b>clear</b> options under the <b>edit</b> menu. It is possible to clear <b>all</b> or just a <b>source, field, or plane</b> . If a source, field, or plane is cleared the products in the product list will also be cleared.	Selections are removed.			
19.	Repeat steps 5-18, sampling different sources, fields, and planes. The ECMWF-HiRes source was added in OB8.1. Be sure to include it in testing.	Samples of the available products were loaded individually.			
20.	Click on <b>clear</b> on the CAVE toolbar menu.	Product is cleared from the main pane.			
21.	Click on <b>CAVE   Exit</b>	The application closes and the test case is completed.			