

AE IV&V Test Case: Baseline CAVE VB Variable vs Height

Revision History

Rev. No.	Date	By	Description of Changes
0	16-apr-2008	S. Davison	Adapted from AWIPS OB8.1 SIT test case: D2D_VB_XvsZ_1.4.1.7

Test Case Identifier

Baseline CAVE VB Variable vs Height

Narrative

This test case demonstrates the capability of CAVE to display a representative sample of variable versus height 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 launches.			
2.	If CAVE is already open, clear the main pane.	Main pane is cleared.			
3.	Use the scale pull-down menu (left side of toolbar) and select CONUS .	Map scale changes to CONUS.			
4.	From the Frames pull-down menu (right side of toolbar), select the highest number of frames, 64 .	Number of frames available becomes 64.			
5.	In order to do a variable versus height plot you must select a point to sample. On the CAVE toolbar select the points button (has an image of three points).	The Interactive Points appear, with labels (ABCDEFGHIJ).			
6.	Observe the points and choose the one that is to be used to make the variable versus height plot. (To move a point: move the mouse over the point, press MB1, move the mouse, and let go at the desired location.) Record the point's ID letter : ____	Point moves to desired location.			
7.	From the Volume menu, select Browser .	The Volume Browser window opens.			

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8.	In the Volume Browser , select Var vs Hgt from the pull-down menu labeled Plan View .	The Volume Browser size and options change.			
9.	In the Volume Browser select a source from the Grid list.	Source shows up highlighted in the source selection list.			
10.	In the Volume Browser select a field from one of the lists (Basic, Derived, Other). 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 Volume Browser select a point from the plane menu. Points range from A-J.	Plane shows up highlighted in the plane selection list; product shows up highlighted in the product selection list.			
12.	Also, toggle between the different logarithmic scales .	Logarithmic scales are altered. This will change the way in which the Z-axis (height) is set-up.			
13.	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.			
14.	Close the Volume Browser : under File select Exit .	Volume Browser closes.			

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15.	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 .	Each variable will display as a line increasing or decreasing with height.			
16.	Click on clear on the CAVE toolbar menu.	Product is cleared from the main pane.			
17.	To remove selected items from the Volume Browser , use 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.			
18.	Repeat steps 5-17, 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.			
19.	Click on clear on the CAVE toolbar menu.	Product is cleared from the main pane.			
20.	Click on CAVE Exit	The application closes and the test case is completed.			