

AE IV&V Test Case: Baseline CAVE RAOB

Revision History

Rev. No.	Date	By	Description of Changes
0	16-apr-2008	S. Davison	Adapted from AWIPS OB8.1 test cae: SIT_Baseline_D2D_RAOB

Test Case Identifier

Baseline CAVE RAOB

Narrative

This test case is to verify that the Skew-T loads and can be edited. Note that the test case assumes that data are available for Tallahassee, FL. If that is not the case the tester should choose a different site.

Notes on preliminary testing with CAVE TO8:

baseline_cave_raob.doc

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Partially applicable. Raytheon delivered test case Skew_T_1.0_Final.pdf with TO8. That test case has 12 steps with DRs noted on five of them. See RTM pp. 85-88. From the RTM it looks as if SkewT/RAOB display is about half done.

A lot of the manipulation capability is not there yet.

As you move the pointer in and out of the skewt display, it repaints w/ various menubars fleetingly disappearing, reappearing, which makes the canvas move all over the place. Ugly.

Step 5 worked, step 6 did not (but still applicable, I think). Very hard to find the hot spots. On D2D the hotspot is much larger than the point, and the cursor changes when the pointer is on the hotspot.

It seems that for deletion you press and hold mb3 on the hot spot. Then you get a menu with “delete vertex” on it. I don't think the points get added as in steps 8 and 11, but you can carry out the steps so I think they are applicable.

The tester can carry out all the steps -- that is, all the controls referenced in the ob81 test case are present in CAVE (except for the use of a context menu instead of a click as noted above) but many of the test steps seem to fail. I think those are the incomplete parts.

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.	Select Upper Air > RAOB > US Eastern > Tallahassee, FL (KTAE)	The sounding is displayed in the large pane, with a map in the upper left corner indicating			

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	to display a sounding and hodograph for Tallahassee, FL.	its geographic location. Sounding parameters are listed in the lower right quadrant of the display.			
3.	Middle-click the legend in the lower right. Select Interactive Skew-T KTAE from the pop-up menu.	The Interactive Skew-T is displayed in the large pane.			
4.	Click MB2 on Interactive Skew-T in the product legend.	The Interactive Skew-T and Hodograph are now editable, and two windows open: Skew-T Controls and Skew-T Parameters. (Note that the two windows open on the left and one opens over the other, so one is hidden.) Specific points appear on the Skew-T and Hodograph, which can be altered.			
5.	To edit the Skew-T, press and hold MB1 on a point on either the <i>temperature</i> or <i>dew point</i> curve and drag.	The selected point changes temperature or dew point, and the line adjusts to the new value. Note that the data points are constrained to maintain their original pressure, so they can only be moved horizontally.			
6.	Click MB2 on one of the points on either the <i>temperature</i> or <i>dew point</i> line.	The point is deleted from the temperature and dewpoint lines.			
7.	Add a point to the Skew-T by typing the following into the Add/Change Point to Skew-T section of the Skew-T Controls window: P: 450; T: -20; Td: -25	(Notice the minus signs.)			
8.	Select the Fahrenheit radio button, and click on Add Point to Skew-T .	Two new points appear in the large pane.			

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9.	In the <i>Hodograph</i> , click MB1 on a point and drag it to a new location.	The Hodograph point is moved.			
10	Add the following in the Add/Change Point to Hodograph section of the Skew-T Controls window: P: 409; Dir: 180; Spd: 80				
11	Select the kts radio button, and click on Add Point to Hodograph .	The Hodograph is changed to reflect the new data.			
12	Select an option from the Lifting Method list in the Skew-T Controls window, and click on Lift Parcel .	The values in the Skew-T Parameters window change to account for the lifting method chosen. Testers also have the ability to enter data in the User Select box. Note: The Use Fcst Max Temp radio button is only available when the Surface radio button is toggled on.		←[Existing DR 17461]	
13	In the Skew-T controls box, click the Wet-bulb Temp Profile .	The wet-bulb temp profile is added to the Skew-T.			
14	Select the Reset Skew-T button in the Skew-T Controls window	All changes made to the Skew-T are reset to the original Skew-T values.			
15	Click on the Reset Hodo button from the Skew-T Controls window.	The Hodograph is reset to its original values.			
16	Select Clear from the menu.	Image on main pane is cleared.			
17	Click on CAVE > Exit	This concludes the test case.			