

AE IV&V Test Case: Baseline CAVE Skew-T

Revision History

Rev. No.	Date	By	Description of Changes
0	16-apr-2008	S. Davison	Adapted from AWIPS OB8.1 test case: Check_out_4.1.2_Skew-T_OB8.1

Test Case Identifier

Baseline CAVE Skew-T

Narrative

This test case is to verify that the Skew-T loads and can be edited. Note that Step 2 assumes that data for Tallahassee, FL is available. If that is not true the tester may have to select another site.

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Step #	Action / Inputs	Expected Outputs	Pass(P)/ Fail(F) Pending (Pen)	DR #, Name and Description for failed step	Special Needs / Comments
1.	Start CAVE	CAVE launches.			
2.	From the US Eastern submenu in the RAOB section of the Upper Air menu select Tallahassee, FL (KTAE), to display a sounding and hodograph for Tallahassee, FL.	The sounding is displayed in the large pane, with a map in the upper left corner indicating its geographic location. Sounding parameters are listed in the lower right quadrant of the display.			
3.	Select Interactive Skew-T from the pop-up menu in the large pane by pressing and holding mouse button 3 and highlighting the desired selection.	The Interactive Skew-T is displayed in the large pane.			
4.	Select mouse button 2 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. Specific points appear on the Skew-T and Hodograph, which can be altered.			
5.	To edit the Skew-T, press and hold mouse button 1 on a point on either the temperature or dew point 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			

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		constrained to maintain their original pressure, so they can only be moved horizontally.			
6.	Select mouse button 2 on one of the points on either the temperature or dew point line.	The point is deleted from the temperature and dewpoint lines.			
7.	Add a point to the Skew-T by typing the following information into the Skew-T Controls window: P: 450; T: -20; Td: -25. Select the Celsius radio button, and select the Add Point to Skew-T button.	A new point appears in the large pane.			
8.	In the Hodograph, select mouse button 1 on a point, and drag to a new location.	The Hodograph point is moved.			
9.	Add the following information in the Add/Change Point to Hodograph section of the Skew-T Controls window: P: 409; Dir: 180; Spd: 80. Select the m/s radio button, and select the Add Point to Hodograph button.	The Hodograph is changed to reflect the new data.			
10.	Select an option from the Lifting Method list in the Skew-T Controls window, and select the Lift Parcel button.	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. The Use Fcst Max Temp radio			

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		button is only available when the Surface radio button is toggled on.			
11.	In the Skew-T controls box, click the Wet-bulb Temp profile.	The wet-bulb temp profile is added to the Skew-T.			
12.	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.			
13.	Select the Reset Hodo button from the Skew-T Controls window.	The Hodograph is reset to its original values.			
14.	Select Clear from the menu.	Image on main pane is cleared.			
15.	Click on the CAVE Exit	The application closes.			