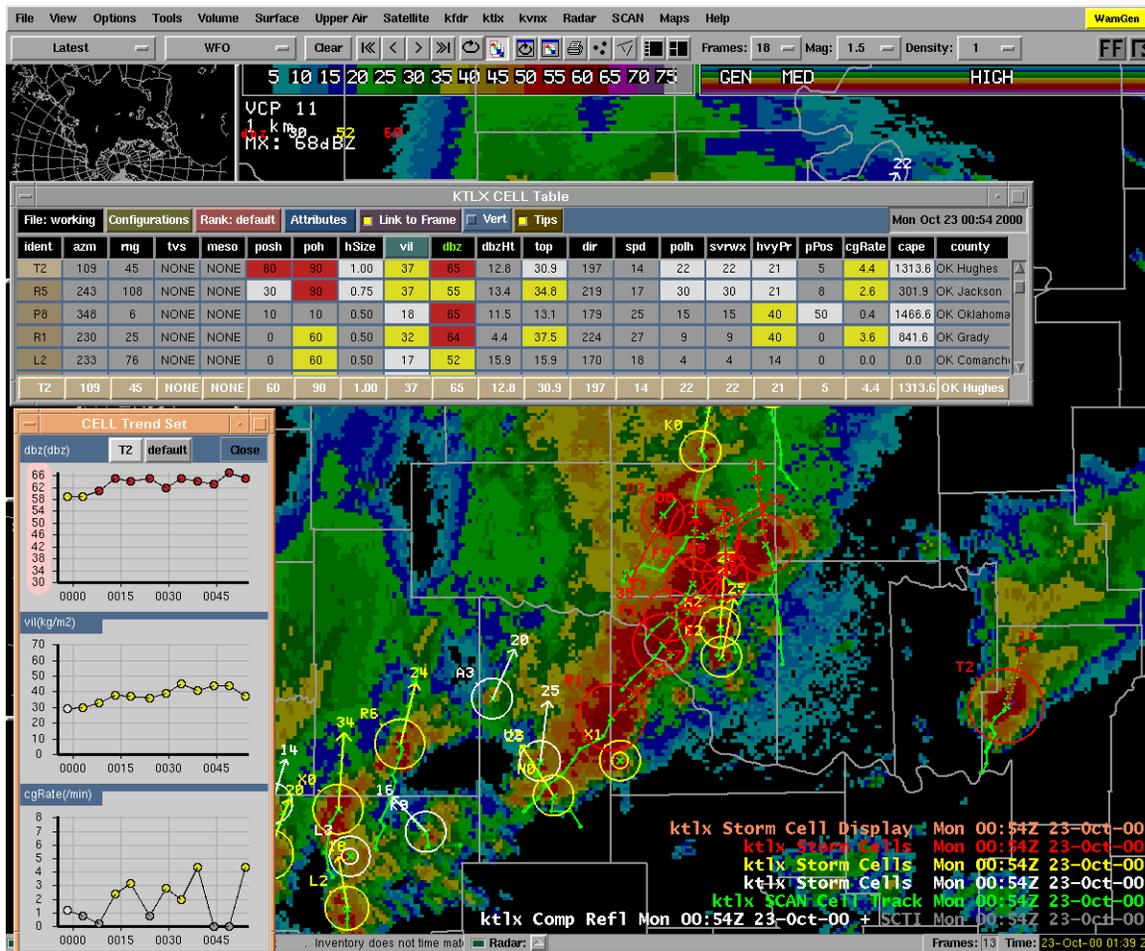


Distance Learning Operations Course



IC 5.1 Radar Applications Using AWIPS

Presented by the Warning Decision Training
Branch

Instructions for completing Instructional Component 5.1

This instructional component is designed as a series of job sheets to be completed on a live AWIPS D2D Workstation. There are 21 Job Sheets addressing various areas of functionality associated with manipulating radar products. In addition, there are cross-references to the OB4 AWIPS User's Manual. The online version is available as a PDF file which can be accessed off the WDTB DLOC FY 05 main web site.

This printed document is provided as a study guide for assistance in completing the AWIPS radar job sheets. The document **does not** contain all the associated color AWIPS screen captures which are included in the online IC 5.1 version.

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Figures for IC 5.1

Job Sheet 1: Basic Product Displays and Manipulations

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
A. Display any latest radar product in database using pull-down menu	Using the left mouse button, click on the <u>Figures for IC 5.1</u> or <u>Radar Pull Down Menu</u> and choose a product.	<u>2.1.6.10</u>
B. Clear screen	From the <u>Tool Bar</u> , click on the Clear button, or type in "Ctrl + C" from the keyboard.	<u>2.1.6.2</u>
C. Pick a product choosing a specific elevation angle in the database	Select a product from the <u>Figures for IC 5.1</u> (kxxx Reflectivity, for example). From this sub-menu, you can choose any tilt that is available, and loop it. To view an entire volume scan of data, click on one of the "All Tilts" products (All Tilts Z/SRM, for example).	<u>2.1.6.10</u>
D. Display product availability	Use kxxx or Radar pull-down menus to view all available products and times.	<u>2.1.6.10</u> <u>2.1.6.11</u>

Job Sheet 1: Basic Product Displays and Manipulations

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
E. To view entire radar product database	<p>From the Toolbar (click on the Load Mode button) or the Menu Bar (click on the Options Pull-down menu and select <i>Display Properties</i>, then click on the Load Mode button), choose Inventory. From the <u>Figures for IC 5.1</u>, select any product (such as kxxx Reflectivity) and click on the most recent time. Then, the <u>Select Forecast and Inventory Time Dialog Box</u> pops up. This box shows all the date/times stored for that particular product in the database. You must select individual products to display date/times (only one product or slice is shown). Note: Be sure and reset Load Mode button back to "Valid time seq" before proceeding to next job sheet task.</p>	<u>2.1.7</u>
F. Full and quarter screen manipulation	<p>An option under the <u>Figures for IC 5.1</u>. You can load a WFO scale map, then right mouse click and <u>Select Four Panel Layout</u>. Once in <u>Four Panel Mode</u>, you can load and display products and manipulate them in individual panes. Hold down the right mouse button on the image in any of the four panels. You will see options to <u>Load To All Panels</u>, or, <u>Load To This Panel</u>. If you select the latter, a big yellow "L" will show in the lower left-hand corner of the panel (see panel 1 in image to left). This means you can now manipulate the image (load maps, data, etc.) to this panel alone.</p>	<u>2.4.2</u>
G. Cursor readout	<p>Hold down the left mouse button at the cursor location. Output gives you the data value (in this example, 40 to 45 dBZ), the height in feet Above Mean Sea Level (MSL) and Above Ground Level (AGL), and the Azimuth/Range in degrees/nautical miles). Note: To change the font size for your cursor readout (as well as any other text displayed on the D2D large display pane), select a larger magnification value on the <i>Mag</i> button (located on the Toolbar).</p>	

Job Sheet 1: Basic Product Displays and Manipulations

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
H. Cursor home define	<p>Select Tools from the Menu Bar, then left-click on "Home" (the Home location will be designated by a small green "X" next to the word "Home"). Middle mouse-click on the Home Legend and the Home Location becomes editable. Right click on any desired location on the image and this point becomes the new cursor home.</p> <p>You also have the ability to go to a pre-determined cursor location by specifying a station, city/state, or lat/lon coordinate. This is the <u>Put Home Cursor Option</u> which is accessed off the <u>Tools Pull Down Menu</u>.</p>	<u>2.1.6.4</u>
I. Product forward/back	<p>Since product loading/displaying is based on frame/loop access, you can step forward/back with the right/left arrow keys on the keyboard or with the set of four buttons on the Toolbar. These buttons include Step Backward (<) or Step Forward (>), which allow you to step through multiple frames of data, one frame at a time, or to move immediately to the First (<<) or Last (>>) frame in the loop. By adjusting the # of frames in a loop, you can immediately access (and display) "older" data in the data base.</p>	<u>2.1.7</u>
J. Product retrieval (using product off/on, transfer screen product, restore displayed product)	<p><u>Select Product Legend/ Deselect Product Legend</u> on the lower right hand of the large display pane by clicking with left mouse button. You can select/deselect map overlays the same way (left mouse click). In this way you can restore the manipulated product (image) to its original form. You can also use the pop-up menu to load/unload products.</p>	
K. Transfer screen product	<p>By clicking the right mouse button on one of the small panes, you can swap the image on the large display pane with the image on the selected small pane.</p>	

Job Sheet 1: Basic Product Displays and Manipulations

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
L. Select storm from Attribute Table	This functionality is utilized best from the SCAN Cell Table (See <u>Job Sheet 19: Using SCAN</u>) or <u>SCAN User's Guide</u>	<u>7.5</u>

Job Sheet 2: System Status

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>To display the NEXRAD Unit Status product (USM), left-click on the <u>Figures for IC 5.1</u>, select kxxx Graphics, then choose the NEXRAD Unit Status product.</p> <p>Note the NEXRAD status product is a static display; the only way new information will be displayed is when another USM product comes in at the end of the volume scan and replaces the older displayed product.</p> <p>The <u>NEXRAD Unit Status Message Product (USM)</u> does not automatically display when there is a disconnection of the radar communications lines. You will see a message on the AWIPS workstation (<u>Radar Status Bar</u>) indicating a problem is occurring with radar data. In addition, a <u>Red Banner Message</u> and an audible alarm is generated any time radar data loss exceeds five minutes.</p> <p>Also, operators can use the <u>AWIPS Data Monitor</u>, which updates continuously. The Data Monitor displays the status of radar products coming into your database.</p>	<p><u>11.1</u></p>

Job Sheet 3: Parameter Selection

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
A. One-time product requests	<p>From the <u>Radar Pull Down Menu</u> or the <u>Figures for IC 5.1</u>, select <i>One time request</i>. The One-time request (OTR) application allows you to specify a non-routine radar product (image or graphic) and send a request message to the RPG to generate this product for up to nine volume scans. In this <u>Dialog Box</u>, you have to specify the RPG, and all relevant parameters of the desired product. [Note: Multiple recurring requests to one radar, or multiple requests from more than one radar can be done through the <u>Radar Multiple Request (RMR) option</u>.]</p> <p>A message appears in the <u>Radar Status Bar</u> indicating that your requested product has been sent by the RPG (see example). After the product arrives, a message comes back (in the Radar Status Bar) stating that the OTR product has arrived (it gives the time of the product as well as when the request was sent). At the same time that the message appears (if you happen to be looking), the product will update in the <u>Radar Product Menu</u>. A message will also appear (in the Radar Status Bar) if the product was not generated.</p>	<u>7.3</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
B. Cross-sections	<p>Call up an image (Composite Reflectivity, Base Reflectivity, Base Velocity, etc.) that you want to create a cross-section from, then load interactive baselines from the tools menu and make them editable via a middle mouse click. Edit any line (A-A', B-B', C-C') somewhere in your CWA. [Note: You could also load baselines from within the One-time Request dialog box.] The length must be between 0 and 124 nm AND the line cannot extend beyond the 124 nm range ring. After editing your baseline, select One-time Request from the <u>Radar Pull Down Menu</u>. In the Product option, choose <u>Reflectivity X-Sect (RCS)</u>. Choose your edited baseline (A-A' for example), and confirm that the line shown in the dialog box is between 0 and 124 nm. Press the Send button located at the bottom of the One-Time Request Dialog Box. Monitor the Radar Status Menu bar to see if your request was sent properly. From the kxxx Pull-down menu, open <u>Kxxx Derived Cascading Menu</u> and select <u>Reflectivity X-Sect (RCS)</u>.</p>	<u>7.8 Module 25</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
C. SRM	<p>The High Res (8 Bit-256 data levels) SRM product is available from the <u>Kxxx Drop-Down Menu</u>. Other High Res products (Z, V, Z/V , Z/SRM combos) are also usually found on the kxxx drop-down menu. To specify a storm motion for the High Res SRM, you must use the <u>Radar Display Controls Dialog Box</u>. This Box is called up when you left-click on <i>Radar Display Controls</i> (found under <i>Applications</i>) on the kxxx or Radar drop-down menus. Once the dialog box comes up, use the slider bar at the bottom of the window to input your customized storm motion/speed. Then, zoom, swap, pan, or reload to see the changes on the SRM product.</p> <p>Note: The default storm motion is option #2 (average motion computed from the STI - which is the same as the lower res SRM product). Users should recognize that any WarnGen (option #1) or custom storm motion (option #3) that is applied via the Dialog Box will remain as the storm motion for future volume scans until another value is selected in the dialog box. The average storm motion vector must be used on all dial-out radar requests. It is also important to note that the user-specified motion vectors are workstation-specific.</p> <p>The 8-bit SRMs are labelled SRM8 and the 4-bit SRMs are labelled SRM4. SRM products include the storm motion vector information plotted in the upper left corner of the display pane.</p>	<u>2.1.6.10</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
<p>D. Storm-Relative Mean Radial Velocity Region (SRR) (individual storm motion subtracted from radial velocity)</p>	<p>Use one-time request application.</p> <ol style="list-style-type: none"> 1. Get point set up over location you want (over storm of interest) 2. Go to one-time request (under radar or kxxx pull down menu) 3. Choose SRR product 4. Load points 5. Click on storm closest to window center for SCIT storm motion of that storm OR 6. Input specific storm motion 7. Click on Send. <p>To display a SRR product, go to the kxxx drop-down menu. Under <i>Svr Wx Analysis</i>, select "<u>Kxxx SWA Storm Rel Vel-Region</u>". You then will see the latest times when the requested SRR product becomes available. The end product will look like a segmented SRM centered on the storm of interest (azran of storm will be displayed in upper left-hand corner of the screen, right under VCP in use), so zooming will be required.</p>	
<p>E. User Selectable Precipitation</p>	<p>Select radar, one-time request, fill out parameters as shown in graphic on left: for Product, select "User Select Precip (USP)", for request interval, option of 1 to 9, for end hour, choose most recent, and for time span, use slider bar to select duration of precip accumulation (1-24). After product arrives, select <u>User Selectable Precip</u> off the <u>Radar Pull Down Menu</u>.</p>	<p><u>7.3</u></p>
<p>F. Severe Weather Analysis (SWA) products</p>	<p>SWA products are available under the <u>Figures for IC 5.1</u> or as a One-time request.</p>	<p><u>2.1.6.10</u></p>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
G. Linear motion estimate function	<p>From the Menu Bar, select Tools, Distance speed. This begins the edit mode. A <u>Little Box</u> pops up which gives you options to choose mode (Point or Polyline) and legend (Time or Speed). Choose point and time for individual storms.</p> <p>At this point you will see a half filled-in circle with the legend "Drag to beginning location in loop". After dragging (while holding down left mouse button), AWIPS will automatically plot five-minute, projected storm-motion locations (tick marks) from past track information, which is based on how many frames you select in the current loop. For example, (in VCP 11) for a two-frame loop, you will get only one (five minute) forecast position. For a three-frame loop, you will get two forecast locations, four frames, three forecast locations, and so on, up to to the maximum frame count (32), which would give you a 155 min. forecast position.</p> <p>[Note: The half-filled circle will follow the location of the current storm cell based on the current frame in the loop. As you step through the loop, the circle will advance to the current storm cell's location along the linear segment. At the beginning of the loop, a large X marks the last observed storm location. As you step through the loop, X stays at the beginning location (in the linear segment) of the storm cell in the loop.]</p>	<u>2.1.6.4</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
H. All-Tilts	<p>From the <u>Kxxx Drop-Down Menu</u>, select “All-Tilts Z/V” . From the Frames Pull-Down menu, set count to 32. Note: Every tilt from each of the most recent volume scans is displayed. Using the up/down arrow key, press and hold the shift key while pressing the up/down arrow key to step up or down in a volume scan through all the tilts for a fixed time.</p> <p>Press the up/down arrow key without pressing the shift key. This causes the radar data in the display to loop/animate up or down in a volume scan while increasing or decreasing the loop speed. Note: The more times the up/down arrow keys are pressed, the faster or slower the tilts will change through time.</p> <p>Press and hold the shift key while pressing the right/left arrow key to step forward or backward in a volume scan at a fixed tilt through time. Press the right/left arrow key without pressing the shift key. This causes the radar data in the display to step you through the frames without regard to volume scan or tilt, but simply in the order in which the system loaded them.</p> <p>Using the Window Toolbar, press and hold the shift key along with either the right, left, up, or down arrow keys to initiate the functions described above. You can also press the</p> <p>< or > button to step through each time and space display, or press the << or >> to go directly to the first or last frame. Press the loop/toggle button to animate the time and space display.</p> <p>The stepping and looping controls on the main menu toolbar and up/down loop keys will now operate with a fixed tilt through time. These special modes end when you clear the display, load another product, or press one of the arrow keys without the shift key pressed.</p>	<u>2.1.6.10</u>

Job Sheet 4: Background Maps

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
A. Add maps	Off the Menu Bar, select <u>Maps</u> . Choose one of the options (left-click) and immediately map will be displayed on image or product).	<u>2.1.6.13</u>
B. Remove maps	<p style="text-align: center;">To remove maps:</p> <ol style="list-style-type: none"> 1) Hold down right mouse button 2) From the Pop-up menu (see left), click on Show Map Legends 3) Left click on map legend will remove that particular map <p>[Notes: The left mouse click on the legend acts as a toggle to display/hide maps (clicking on the ghosted legend will make the map appear again). You can also toggle the legends by using the Enter key on the numeric keypad on the keyboard. The "+" and "-" keys on the numeric keypad will fade the image on and off leaving just the background map showing.]</p> <p>You can't display image product legends with map legends at the same time. To bring the image legend back up, you have to go back and right click (hold down) and get the <u>Pop-up Menu</u>. Select <u>Show Product Legends</u>, then left click on image product legend to start toggle process. You can only show either the image product legend or the map legend at one time. You can display and manipulate maps in four-panel mode.</p> <p>In order to toggle maps on/off in four-panel mode, you have to be in the "Load to this panel mode" (see image at left). When you are in this display mode, you will see a big <u>Yellow "L"</u> in the lower left-hand corner of the screen. Otherwise, map manipulations (toggling legend/maps) will affect images in all four panels.</p>	<u>2.1.6.13</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
C. Polar grid map	<p>Off the Menu Bar, select <u>Maps</u>, then choose "Range Rings" from the drop-down menu. Image at left shows the polar grid map, which can also be moved around to a <u>Different Location</u> on the radar image. To do this, use the <u>Az/Ran Overlay Tool</u>, which can be selected from the Tools Menu. This overlay is in the editable state when displayed. The center of the polar grid overlay can be relocated by moving the cursor to a different location and pressing Mouse button 3.</p>	<u>2.1.6.13</u>

Job Sheet 5: Product Overlays

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
A. Overlay selection and manipulation	<p>Select an image and then select the <u>Figures for IC 5.1</u>. Select <u>Kxxx Graphics</u>. Available image overlays are VAD, STI, HI, Mesocyclone (MD & M), TVS, Combined Attribute Table (1 and 4 km), , Severe Weather Prob., (SWP), Vad Wind Profile (VWP), Nexrad Unit Status, and Cell Trends.</p> <p>Note: For STI, HI, TVS, Mesocyclone, and High Res SRM you have the option to modify the display. See <u>Job Sheet 6: Product Manipulation</u>.</p>	
B. Storm Track overlay and Attribute Table paging	<p>Tabular graphics such as <u>Storm Track Information (STI)</u> include a paging function (up to six pages) which can be toggled on/off by left-clicking on the legend. You can also toggle on/off the overlays by using the numeric keypad keys 1-9. The Storm Attribute Table covers up data displayed at the top of the large pane. In addition, some of the default colors on the overlays (such as SCIT, and HI) are difficult to read when they are overlaid on multi-colored product images.</p> <p>To control the number of storms displayed and what type of track to show on the STI graphic product, use the <u>Radar Display Controls Dialog Box</u>. This Dialog Box, accessed when you left-click on the option from the <u>Kxxx Drop-Down Menu</u> or <u>Radar Pull-Down Menu</u>, can allow you to display from 0 to 100 storms on the STI product , using the top slider bar. You also have an option to display no tracks, past tracks, forecast tracks, or both past and forecast storm tracks.</p>	7.7

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
C. Four-panels	<p>Under the <u>Figures for IC 5.1</u>, click on kxxx four-panel. A nested <u>Sub Menu</u> will appear indicating a number of base reflectivity, base velocity, and/or storm-relative velocity product combinations to choose from. In addition, you can hold down the right mouse button on the large display pane, and choose the four panel layout option from the <u>Pop-up Menu</u>, and then load individual quadrants of the 4-panel.</p>	<u>2.4.2.1</u>
D. Blinking	<p>Hold down mouse button 3 on the image legend, then select "change blinking". Select color range using the buttons on the slider bar. Click on "<u>Enable Range</u>". Left click on "Disable Range or "Reset" to stop blink. This function works in four-panel mode as well.</p>	<u>2.4.1</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
E. Vr shear Tool	<p>On the Menu Bar, select <i>Tools</i>. Left-click on <i>VR Shear</i> on the drop-down menu. The tool comes up in edit mode. End points can then be dragged to specific gates of velocity gates. When in place, the average velocity difference (in knots), distance between end points (nm), shear (in sec-1), and distance from radar (nm) are automatically displayed next to the points and in the upper left-hand corner of the large display pane.</p> <p>A positive value of VR indicates cyclonic shear, while a negative value indicates anticyclonic shear. If either end point is not directly over data, the phrase "No Data" is displayed for the shear value.</p> <p>If you are zoomed in over an area when you load the VR-5km tool, and the Vr-Shear baseline does not appear, press mouse-button 3 to "snap" the baseline to where the mouse cursor is located.</p> <p>When VR-shear is used in 4-panel mode, each tool behaves independently. Thus, you can get accurate measurements of the VR-shear output in any one of the four panels, but only edit one tool at a time. To activate, click mouse button 2 on the VR-shear legend in the desired panel and position the query line to the echoes of interest.</p> <p>Notes: If the length of the selected velocity segment becomes greater than 27 nm, the words, "TOO FAR" appear next to the segment. Clicking the right mouse button when the cursor is located on a different couplet moves the Vr shear tool automatically to that area.</p>	<u>2.1.6.10</u>

Job Sheet 6: Product Manipulation

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
A. Recenter and magnify products	<p>Click middle mouse button on an <u>Image Product</u> in large or small display pane to zoom in. Display will zoom in (centered at the location of cursor) up to a factor of approximately 16 times the original full resolution image on a WFO scale or State scale. Available zooming ranges (approximately) on the WFO scale are: 459, 325, 229, 162, 114, 72, 45, and 28 km. For the State scale, zooming ranges are (approximately) 900, 636, 450, 318, 225, 141, 90, and 56 km. [Note : AWIPS D2D will always display the best possible resolution of the product on the displayed image.] The left mouse button zooms out (centered on location of cursor). Holding down the shift key then clicking the left mouse button on the image will perform a full unzoom.</p> <p>Holding down the middle mouse button in the large or small display pane and dragging cursor around will "pan" any zoomed product image.</p> <p>Another way to use the zoom feature is to hold down the right mouse button on the large display pane, click on <u>Zoom</u> (with the left mouse button), then choose one of the eight ranges. The selection diamond will be filled in yellow next to the current range. [Note: The Mag button on the toolbar controls overlay fonts on plots, legends, and tables, not the image itself].</p>	<u>2.2.1</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
B. Looping products	<p>You can turn looping on or off with the <u>Looping Icon Button</u>, located on the Toolbar, as well as designate how many frames (1-32) are in a loop (use the Frames button located on the Toolbar). Using the up arrow key will start the loop, the back arrow will stop the loop. Using the forward and back arrows will step through the images forward or backward. To adjust Looping properties, open the <u>Loop Properties Dialog Box</u>. This box is opened when you select the Options pull-down menu, or the <u>Loop Properties Icon</u> off the toolbar, or use the "CTRL + L" accelerator keys. You can adjust forward and backward speeds and adjust the dwell rate. You can also zoom in/out while looping.</p>	<u>2.2.1</u>
C. Combine color levels and contour values	<p>The easiest way to edit colors is to right-click on the product image legend or hold down right mouse button and select, "Edit Colors". You can also click on the Image Properties Icon Button in the Toolbar, or "Ctrl + i" , and then select "Edit Color". By doing this, you will see the <u>Image Colors Editor</u>, where you can modify existing color tables, or create new ones and save them for future use.</p> <p>To adjust individual color levels, left click on the corresponding color on the slider bar and then adjust the RGB values. You can also adjust lower and upper colors levels and interpolate intermediate color values.</p> <p>An "<u>Office Save As</u>" option is available on the Image Colors Editor which will enable local sites to modify or create personal color tables as a part of localization.</p> <p>Remember to always save any edited color tables and give it a new name because the system reads only the default image color tables.</p>	<u>2.2.1</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
D. Filtering color levels	To filter color levels on AWIPS radar products, pull up the <u>Image Colors Editor</u> and adjust the pointers for the lower and upper color levels using the slider bar or the direction arrows. Get your colors levels you want to filter and then, left-click on the "Fill" button. Whatever color had been selected will now fill in that range.	<u>2.3.1</u>
E. Blink color level	Hold down the right mouse button on Product Image legend. From this, select "Change Blinking". This will bring up the <u>Image Blinking Dialog Box</u> . In this box, you can adjust the blink rate (0.1 to 2 sec), and set up any data color level interval you wish to blink for that particular image. You must select Enable Range to start the blinking. Reset button (in the Image blinking Dialog Box) stops the blinking, or hold down the right mouse button on the large (or Small) display pane and select "blink rate, No Blink". [Note: the Data level Color Bar across the top of the product also blinks the colors selected.]	<u>2.4.1</u>
F. Printing	From the Menu bar, under File, choose Print, (also Ctrl+P or you can click on the Print Icon button on the <u>Tool Bar</u>). This option sends everything currently on the Large Display Pane to the default printer.	<u>2.1.6.1</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
G. Radar Display Controls	<p>From the kxxx or <u>Radar Pull-Down Menu</u>, left-click on "<u>Radar Display Controls</u>". A little window pops up which allows you to modify the appearance of many radar graphics products. For example, you can adjust the number of storms displayed on the <u>Storm Track Information (STI)</u> product, the type of track to show (past, forecast, no tracks, or past & forecast), the appearance of <u>Hail Index (HI) Product</u> icons, the display of Elevated TVSSs, extrapolated Mesos (from MRU product) , and the display of the High Res SRM (see <u>Job Sheet 3: Parameter Selection</u>).</p> <p>Note: If you want to display ETVSSs on AWIPS, make sure you have enabled the display of ETVSSs from the ORPG.</p> <p>To view any changes made in the Radar Display Controls Dialog Box, you have to swap, zoom, pan ,or reload the product.</p>	<u>7.7</u>

Job Sheet 7: Procedures

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>Procedures are user-generated lists of graphics and/or products which enable you to define, customize, or save a sequence of pre-determined steps for a particular way to display products.</p> <p>On the Menu Bar, select "File", "Procedures", and the <u>Procedures Cascading Menu</u> opens. Select "New" (or "Ctrl + N") to open a new empty <u>Procedure Dialog Box</u> (click on image above to see what this box looks like).</p> <p>There are a couple of ways to generate procedures. One way is to call up products and manipulate them on the large display pane exactly the way you want to view/save them. Then, from the <u>Procedures Cascading Menu</u>, select "Copy Display to Procedure(s) (or "Ctrl+B)". This action will <u>Fill Procedures Dialog Box up</u> with these product displays. Then, you must choose "Save As", and give your procedure a name. To call up the saved procedure, from the Procedures Cascading Menu, select "Open", and then choose the named procedure.</p>	<p><u>2.5</u></p>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>If you need to modify your procedure, such as moving the order of display or deleting a particular product/manipulation, then use the various <u>Buttons in the Procedures Dialog Box</u>. To delete a procedure, select "Delete" (or "Ctrl+D") from the <u>Procedures Cascading Menu</u>. The Delete Procedures Dialog Box will display and then choose the name of the procedure you wish to delete.</p> <p>Another way to generate procedures is to use the History List. From the Menu Bar, select "File", "History List" ("Ctrl+H"). The <u>History List Box</u> opens, and each time you call up a particular product , it will list that product at the top of the History List. By clicking on the <u>"Copy Out"</u> button from the History List box , you can copy any product (or series of products displayed) over into your procedures box.</p>	

Job Sheet 8: Dial Up RPG Requests

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>From the Main Menu Bar, select either the <u>Figures for IC 5.1</u> or <u>Radar Pull Down Menu</u>. On kxxx (and Radar pull-down), under <i>Applications</i>, choose One-Time Request (OTR). The <u>Dedicated-One time Request Dialog Box</u> pops up. In the <u>Dedicated-One time Request Dialog Box</u>, you must specify which RPG is to receive the request, and specify all relevant parameters for the desired product. Then, left-click on the "Send" button and wait for the product to become available in the Radar menus. Use the <u>Radar Multiple Request (RMR)</u> option to make recurring requests of multiple products from one or more sites.</p>	<u>7.3</u>

Job Sheet 9: VWP Hodograph

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>To view a VWP hodograph, you will use the <u>Interactive Skew-T</u> . First load a WFO Scale map and edit points (there is no need to load a radar product). Second, move a point to the RDA location. Third, open the volume browser and choose VWP as the source, sounding as the field, and the point corresponding to the one over the RDA. Finally, select "Load" , and the VWP data will be displayed in <u>Vertical Sounding and Hodograph Format</u>. If enough data are available, the product will also display computations of 0-6 km average wind, 0-6 km storm motion (30R75), and 0-3 km Storm Relative Helicity.</p>	<u>3.1.3</u>

Job Sheet 10: Editing Alert Areas

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>To edit Alert Areas: select kxxx (or Radar) off the Main Menu Bar. Under Applications, select "Alert request". This brings up the <u>Alert Request Dialog Box</u>. One of the two alert areas will be displayed (note the yellow colored diamond). Only 1 alert area can be displayed at a time. If you are associated to more than one radar, you can set up additional alert areas. Click on the RPG button to choose the associated radar that you want to create (or edit) an alert area for. You can save up to 2 alert areas (Alert Area #1 and Alert Area #2) for each associated radar.</p> <p>Left-click on the "Load/Edit Area" button to load the alert area grid and begin editing. Once the <u>Alert Area</u> has been displayed, you will see a lot of little square cells with a dot in the middle of each of them. Holding down the right mouse button over the display will bring up a pop-up menu where you can use grid editing options such as Select Location and Select Area. Select Location places an Alert Cell at the cursor location (with a right mouse click). A second right mouse click will then remove cells at the cursor location.</p> <p>The Select Area option allows you to choose a larger multi-cell grid area using a rectangle "rubber-band" tool. The rectangle automatically fills in or clears Alert Cells, depending on whether the initial selection point is empty or has a dot in it.</p>	<p><u>7.1</u></p>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>Once you are finished editing your Alert Areas, be sure and left-click on the "Send Request" button to save your edits. If you try to exit out of the Alert Request Dialog Box by clicking on the "Exit" button, a <u>Warning Window</u> will come up and remind you to send your request (and save changes), revert back to original alert area settings and exit, or exit without saving changes.</p> <p>The "Revert" button on the <u>Alert Request Dialog Box</u> opens a <u>Revert Warning Dialog Box</u>. This Box allows you to clear the edits and restore the previously sent category/ threshold and alert areas.</p> <p>The job sheet for setting alert area thresholds and categories is <u>Job Sheet 18: Setting Product Alerts</u>.</p>	

Job Sheet 11: Mosaic Features

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>Radar Mosaic products merge data from multiple radar sites into a single composite product. Currently, Mosaic products are composed of local and adjacent radar data built from time-matched images distributed and collected via the SBN/WAN in your radar database. All of your individual dial-out radar products can be displayed in your Mosaic composite products on any scale (typically on the State scale to show adjacent radar data in your CWA).</p> <p>Products such as 0.5 deg. <u>Base Reflectivity (Z)</u>, Composite Reflectivity (CZ), VIL, STP, and other reflectivity based products can be displayed in Mosaic format.</p> <p>To display a Mosaic product, most D2D menu configurations have Mosaic products on the kxxx or <u>Radar Pull Down Menu</u>. Select one of the various products that are available under the Mosaic category.</p> <p>The Home/88D option off the <u>Radar Pull Down Menu</u> allows you to display radar products from nearly any 88D radar. Once you load the Home/88D tool and make it editable, you can drag the Home Location to any 88D location on the CONUS scale. From the Home Cascading Menu, choose from the available radar products.</p> <p>The Home sub-menu contains a list of radar products which can be displayed from any 88D radar. Use the <u>Data Scale Option</u> to display the home radar on its native scale.</p>	<p><u>2.1.6.11</u></p>

Job Sheet 12: Radar Multiple Requests

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>The Radar Multiple Request (RMR) is an option from the <i>Applications</i> section of the <u>Radar Pull Down Menu</u>. This function allows you to schedule a <u>Recurring Multiple Request</u>, or make requests for products from multiple radar sites. In the <u>Recurring Multiple Request dialog window</u>, you have options to select the time interval of the multiple requests (5 or 6 minutes), and the duration of the requests (in number of hours or minutes). Each request entry will be expanded in a tree-like structure to see what <u>Existing Requests</u> are contained in the request.</p> <p>[Note: To minimize dial-out modem communication resets, keep the the Dial-out and Dedicated RPG capacities below 100% (these numbers are located in the lower right hand corner of the <u>Recurring Multiple Request dialog window</u>. If you exceed 100% capacity, the green light will turn red and you will have to delete products from the scheduled RMRs.]</p>	<p style="text-align: center;"><u>7.4</u> <u>7.8 Prac-</u> <u>tice Mod-</u> <u>ule</u></p>

Job Sheet 13: Basic Keyboard Functions

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>Use Accelerator Keys to perform display manipulations on workstations. For a listing of the Keys, see <u>Section 2.1.1</u> in the AWIPS User's Manual for OB4.</p> <p>For large display functions, the Accelerator Keys are located in the right-hand section of the keyboard (also called the Numeric Keypad). Refer to <u>Section 2.1.1</u> for the listing of Accelerator keys for large display functions. These are convenient shortcuts for performing routine manipulations.</p>	<u>2.1.1</u>

Job Sheet 14: Restarting Graphics on Panes

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>If the large display pane does not clear by clicking the Clear button on the tool bar (or doing a "Ctrl + C"), you can try to restart the dead panes. If a display pane stalls, check the status message in the general status bar.</p> <p>Sometimes the workstation won't automatically restart a stalled pane. If it does not, under Options, you can click on Restart Dead Panes. This may restart the pane. Otherwise, you may have to wait a few seconds for the data to display or, if all else fails, exit the D2D workspace ("Alt + F4", or from File Menu Button, select Exit).</p>	<u>2.1.6.3</u>

Job Sheet 15: Status Information

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>The <u>Netscape Monitor</u> provides status information of Radar data into the AWIPS system and all D2D workstations. To access the AWIPS Monitor, click on the Netscape option on the System Control Menu by holding down the right mouse button anywhere on the HP/LINUX blank display background. This will pop up the System Control menu. Then, select Netscape. The AWIPS Monitor lists the <u>State of Data Sets</u> (such as Radar) currently being stored in your AWIPS data base. To display a detailed listing of the <u>Most Current Products</u> being stored on the Applications Server (as1), click on <i>Radar Data</i> under the AWIPS Data Monitor (located in the upper left panel).</p> <p>The AWIPS <u>Netscape Monitor</u> also displays Ingest Processes in the lower panel of the screen. The Ingest Processes (See Sect. 9.2) displays the status of the data ingest processes running on the Application Servers and the active Data Server for Radar data sets. The Panel updates the status every minute.</p> <p>To view a <u>Free Text Message (FTM)</u> from a radar site, check the Radar Status Bar. In a text window, type WSR-FTMxxx, where xxx is the trailing 3 letters of the radar ID.</p> <p>[Note: the capability to connect, disconnect, and configure comms lines for the WSR-88D does NOT exist in AWIPS.]</p>	<p><u>11.1</u></p>

Job Sheet 16: Displaying Alphanumeric Products

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>To request and display alphanumeric products, use a Text Window (accessed from the <u>Tools Pull Down Menu</u>). The <u>Text Display Window</u> will allow you to display all available radar alphanumeric products stored under product names <i>WSRNNNXXX</i>, where NNN is the 3 letter product Identifier, and XXX is the trailing 3 letters of the radar ID.</p> <p>For example, the VAD Wind Profile Alphanumeric Product <u>Text Display Window</u> from KFDR (see image) can be called up by typing "WSRVWPFDR". The <u>STI (Storm Track Information) Alphanumeric</u> could be called up if you'd like to see all of it's information. These are some of the alphanumeric products with their associated 3-letter identifiers that you can call up on the Text Window:</p> <p style="text-align: center;"> VAD Wind Profile (VWP) Mesocyclone (MES) Storm Track Information (STI) Hail Index (HAI) Tornado Vortex Signature (TVS) One Hour Precip (OHP) Three Hour Precip (THP) Storm Total Precip (STP) User Alert Message (UAM) Radar Coded Message (RCM) Free Text Message (FTM) Storm Structure (SST) Supplemental Precip Data (SPD) Product List (PTL) </p>	<u>4.2.3</u>

Job Sheet 17: Editing RPS Lists

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>The RPS List Editor can be accessed from either the Radar or kxxx pull-down menus. After choosing the RPS List Editor, the <u>RPS Dialog Box</u> (see image) appears and from this menu box, you can select <i>File, Open, or View Current RPS Lists</i> . You can view other lists, create new lists, or edit and delete existing lists from the <u>RPS Editor Box</u>.</p> <p>If you select "View" on the RPS List Editor, you will see an <u>RPS Drop Down Menu</u> with the following options: 1) current list, 2) clear air list, and 3) storm mode list. The "Current list" option displays the RPS List that is currently being used by the RPG. If you are associated to more than one RPG, then you will need to select a RPG from the current list. The "Clear air list" menu option displays the RPS List that contains the products used in Clear Air Mode. Once you select this option, the Select an RPG Dialog Box appears from which you choose the desired radar. The "Storm mode list" menu option displays the RPS List that contains the products used in Storm Mode. When selected, the Select an RPG Dialog Box appears. From it you choose the desired radar.</p>	<p><u>7.2</u></p>
	<p>You also have the option to toggle the toolbar on/off in the RPS List Editor dialog box.</p> <p>Remember when you are editing RPS lists, the national radar products, the limitations on the number of products for each list, and the resolution is always in kilometers. See the information sheet on RPS lists for more instructions.</p> <p>Be sure to select "Save" after you have made any permanent changes to any RPS list. Also, if you want to send your RPS list to the RPG, and make it the active RPS list, left-click on the "Send" button in the <u>RPS Editor Box</u> and specify the RPG.</p>	

Job Sheet 18: Setting Product Alerts

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>To set alert product categories and thresholds, select "Alert request" from either the kxxx or Radar drop-down menu. Click on the "Add" button in the <u>Alert Request Dialog Box</u>. The <u>Add Request Definitions Dialog Box</u> opens. In this box, you can specify the <u>Category Codes</u> for 5 Grid Category code numbers (Velocity, Composite Reflectivity, Echo Tops, Severe Weather Probability, and VIL), 9 Volume categories Codes (VAD, Max Hail Size, Prob. of Hail (POH), Prob. of Svr Hail (POSH), Meso, TVS, Max Storm Reflect, Storm top, Max 1-hr precip.), and 7 forecast categories codes (Max Hail size, POH, POSH, Meso, TVS, Max Storm Reflect, Storm Top).</p> <p>You then can choose from the <u>Threshold Codes Option Menu</u> (see image at left) the value (or threshold) you want the alert to be set. In our example, since we selected Velocity as our category, we have 6 threshold code options: (1 - 15 m/s, 2 - 25 m/s, 3 - 35 m/s, 4 - 45 m/s, 5 - 55 m/s, 6 - 65 m/s).</p> <p>Select one threshold code. Then, from the Request Product option, select either the Yes or No button. The "No" selection means that the radar product is NOT sent to AWIPS, but only an alert text message will be sent to the Text Window Display when the alert threshold is reached. You will see the alert pop-up as a Red Banner Announcement Box.</p> <p>If you select the "Yes" button, the product that is paired to that particular alert will be sent to your workstation. [Note: Product alert pairing is accomplished at the ORPG. Some paired products may be difficult to view on AWIPS due to your current RPS list settings and/or product availability. In addition, you will have to monitor receipt of specific paired products on pull-down menus.]</p>	<p><u>7.1</u></p>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>After setting the Request Product Inquiry Option to "Yes" or "No", press the "OK" menu button to add the alert to your <u>Alert Request List</u> in the Alert Request Dialog Box. Then, be sure to send the request to the RPG (for sites with more than one dedicated RPG, you will need to designate the RPG).</p> <p>To receive an alert, you must first check the Radar Status Bar to make sure the Radar Ingest has acknowledged your Alert Request. There should be a little message in the Radar Status Bar.</p> <p>Once the requested thresholds are met (or exceeded), then a message appears in the Red Banner Announcement Dialog Box. A message is generated when a threshold is reached, there are no alerts for a Volume Scan, or the alert is cancelled.</p> <p>In the Text Display, open the <u>Text Browser</u> and type in "WSRUAMxxx" (xxx for the radar ID). This will give you the User Alert Message for current (most recent volume scan) alerts. To view a status of alerts still in effect, type in "WSRASMxxx" (where xxx is the radar ID). This will show all alerts in effect, including those that have not been cancelled.</p>	

Job Sheet 19: Using SCAN

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
A. Requesting SCAN	<p>From the D2D Menu Bar, left-click on the <u>SCAN Submenu</u> button, then select Storm Cells/Site Storm Threat. This Multi-Load request calls all the SCAN depictables and extensions as well as the SCAN Storm Cell Table.</p> <p>[Note #1: The SCAN loading window will appear briefly while the SCAN Multi-Load and Storm Cell Table are loading.]</p> <p>[Note #2: If no storm cells have been identified from the SCIT algorithm, then the message, "NO CELL DETECTIONS" will appear in place of the Storm Cell Table.]</p>	<u>7.5</u>
B. Ranking Storm Cells	<p>There are two ways to rank storm cells by a particular attribute: first way is to left click on the Rank button, which is located on the top row of the <u>SCAN Storm Cell Table</u>.</p> <p>The Rank button actually drops down a menu list of parameters which can be used to rank all the data associated with the storm cells. For example, by clicking on VIL in the Rank menu, all the storm cells in the table body will be ranked from highest to lowest order by their cell-based VIL values.</p> <p>Second way is to use the Attribute Title row, which is the second row of labels on the <u>SCAN Storm Cell Table</u>. Left-clicking on a particular attribute label will cause the storm cells to be ranked by that attribute in the table body. Refer to Table 8.5.5-8 (pg. 8-55 of AWIPS UM) to see which attributes can be used to rank table data.</p>	<u>7.5</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
C. Changing color thresholds for an attribute	<p>Right-clicking on applicable attribute titles will bring up the <u>Attribute Color Threshold (ACT) Window</u>. The ACT window allows the user to define ranges for any applicable storm cell attribute. These ranges reflect the degree of strength of the storm according to the chosen attribute, ranging from white (weakest) to yellow (moderate) to red (strongest). These colors are used when rendering the data on the D2D, in the table body, and in the time trends. After typing in the numbers for the various color thresholds, click on the <i>OK</i> button to save changes.</p> <p>[Note: the <u>Storm Cell Identification Display (SCID)</u> window also provides some user control of storm cell appearance.]</p>	<u>7.5</u>
D. Launching the Meso Table	<p>Right-click on the Meso attribute title off the Attribute Title row on the <u>SCAN Storm Cell Table</u> . This action brings up the <u>SCAN Mesocyclone Table</u>. [Note: If no Mesocyclones have been identified, the message, "NO MESO DETECTIONS" will appear in place of the MESO Table.]</p>	<u>7.5</u>
E. Invoke a time-trend for a particular storm cell	<p>Left-click on a table grid box value under some particular attribute of a storm cell in the <u>SCAN Storm Cell Table</u>. For example, for cell "T2" in the example, if you left-click on the grid box "30.9" under "top", this action will invoke a <u>tTime Trend</u> of Storm Top for cell T2.</p> <p>To invoke a <u>Trend Window</u> with multiple time trends for a particular storm cell, you have a couple of options:</p> <ol style="list-style-type: none"> 1) you can right-click on a storm cell ID box in the Cell Table 2) you can right-click on the cell centroid in the D2D large display pane when the Storm Cell Display is made active or editable (Right-clicking on the "Storm Cell Display" text label in the bottom right portion of the main D2D pane and selecting <i>editable</i> activates this functionality). 	<u>7.5</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
F. Using the inspections window on a particular storm cell	Left-clicking on a particular storm cell ID box in the "ident" column of the Attribute Title row will duplicate the entire row of data on the last row of the Storm Cell Table (called the Inspection Row). In addition, this action will cause the display to <u>Zoom and Recenter</u> on that particular storm.	<u>7.5</u>
G. Displaying the SCAN CWA Threat Index (SCTI) product	From the <u>SCAN Drop Down Menu</u> , select <u>SCAN CWA Threat Index</u> . The graphic shown will be a <u>4 Km Color-Coded Gridded Product</u> which corresponds to radar algorithm attributes and environmental proximity parameters for each cell. Holding down the left mouse button over the colored grid areas will display a cursor readout of the SCTI values and the assigned category of thunderstorm threat. SCTI values and their relationship to color coding and algorithm thresholds are shown in the <u>SCAN User's Guide</u> .	<u>7.5</u>
H. Setting up Alarms	<p>To set up a Rate of Change Alarm, access the <u>Configurations Pull-Down Menu</u>. Select <u>Alarm Thresholds</u>. The <u>Rate of Change Alarm Threshold Window</u> will be displayed. In the <i>Attribute</i> box, you can select a parameter (such as dbz), and in the <i>Rate of Increase</i> box, you can specify a value above which an alarm will trigger. If the Bell toggle is turned on (shows yellow), then an audible alarm will also sound. Make sure you left-click on the <i>OK</i> button to set the alarm.</p> <p>When the alarm is triggered, the alarm window will appear next to the time box in a <u>Red Alarm Window</u>. Left-clicking on the alarm button allows the user to view the alarm triggers and clear the alarms. By left-clicking on an individual alarm cell, a trend for the alarmed cell and attribute will appear, the D2D display will zoom to the alarmed cell, and the Inspection Row in the Storm Cell Table will fill up with information on the alarmed cell (See <u>Alarmed Cell Window</u> graphic). A user may clear all the alarms by left-clicking on the "Clear All Alarms" button.</p>	<u>7.5</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
	<p>You also have the option to set time thresholds that determines when new SCAN alarms are issued. From the <u>Configurations Pull-Down Menu</u>, select "Alarm Time Setup".</p> <p>The <u>New Alarm Time Setup Window</u> will be displayed. This window allows the user to set the time thresholds for determining when new SCAN alarms are issued. "New" SCAN alarms are issued with the occurrence of activity after a quiet period equal to the user-defined values entered in the boxes. For example, if you would like to be alerted for a new MESO and/or TVS every volume scan, and you would like to be alerted for a new Storm cell every 30 minutes , then fill out window in this manner:</p> <p>Next to the <i>Cell</i> box , type in "30", next to the <i>Meso</i> box, enter "1" (or any number less than the time for one volume scan), and next to the <i>TVS</i> box, enter "1" (or any number less than the time for one volume scan). This configuration ensures that you will receive alarms (in addition to RPG alarms) for every MESO and TVS associated with a Storm Cell ID every volume scan.</p>	

Job Sheet 20: Using FFMP

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
A. Requesting FFMP products	<p>From the D2D Menu Bar, left-click on the <u>SCAN Drop Down Menu</u>.</p> <p>From this menu, you can select the <u>FFMP Image/Basin Table</u> or the one-hour <u>Flash Flood Guidance (FFG)</u> product</p>	
B. Accessing FFMP Basin Table Product	<p>The <u>FFMP Basin Table</u>, which summarizes the FFMP output, is displayed with the FFMP image and is available for all dedicated radars.</p> <p>The FFMP Basin Table also controls which FFMP Image is displayed along with the table. Clicking on the middle bar entitled Thresh Type controls the image displayed. The three product choices are <u>Precip</u> (Basin Average Accumulation), <u>Diff</u> (Basin Average Accumulation minus the County Average Flash Flood Guidance), and <u>Ratio</u> (Basin Average Accumulation divided by the County Average Flash Flood Guidance).</p> <p>A menu of time increments from 30 minutes to 6 hours is available by left clicking the blue durations button. The graphic will only change by left clicking on the Refresh D2D button on the FFMP Basin Table.</p>	<u>7.6</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
C. Displaying Attributes on the FFMP Basin Table Window	<p>From the SCAN submenu, left-click on <u>FFMP Image/Basin Table</u>. All County IDs are displayed in the far left column. As the cursor passes over the ID, the name of the county is displayed to the lower right of the cursor.</p> <p>Information on the <u>Small Basins</u> is available by left clicking on the ID for an individual county. When viewing the small basins, you can return to the county display of the image by left clicking on the blue county button in the <u>Small Basins</u> window.</p> <p>A <u>Basin Trend Graph</u> is available for each small basin by right clicking on the basin identifier. See the FFMP User's Guide for information on interpreting the Basin Trend Graph.</p>	<u>7.6</u>
D. Ranking the FFMP Table by Attributes	<p>To rank the data in the <u>FFMP Basin Table</u>, left-click on one of the attribute title buttons on the Attribute Title Row. For example, to rank the data in the Basin Table by the Basin Average Accumulation -- Flash Flood Guidance Difference, left-click on the black "Diff" button on the Attribute Title Row of the table.</p> <p>This action will make the "Diff" attribute title in the <u>FFMP Basin Table</u> change to a purple color, which is the color designating the current control variable for ranking in the table.</p>	<u>7.6</u>

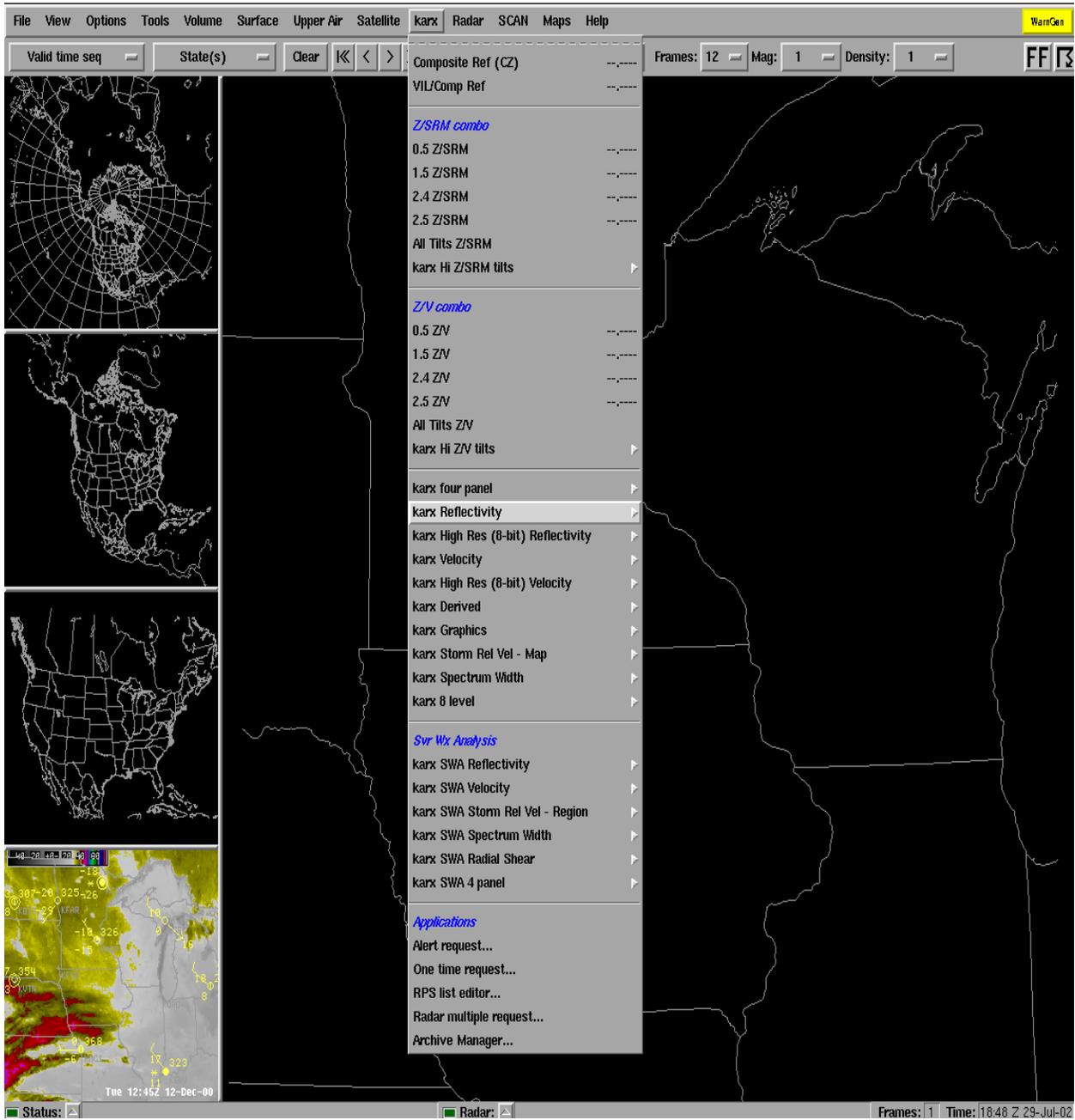
AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
E. Changing Attribute Color Thresholds	<p>To change color thresholds for various attributes, right-click on the appropriate attribute button in the <u>FFMP Basin Table</u>. The Basin (or County) <u>Button Colors Window</u> will come up displaying the various color thresholds that have been set for that attribute. The colors green, yellow, and red are used to progressively display the threat.</p> <p>Click on <i>Apply</i> to make the changes take effect in the Basin Table instantly.</p> <p>Change the color thresholds for the <u>FFMP Flash Flood Threat Index (FFTI)</u> by left clicking on the <u>FFTI Button</u> to bring up the <u>FFTI Change GUI</u>. Any of the three FFMP attributes (Basin Average Accumulation, Accumulation to Flash Flood Guidance Difference, Accumulation to Flash Flood Guidance Ratio) at any FFMP time increment (30 minutes to 6 hours) can be chosen.</p>	<u>7.6</u>

Job Sheet 21: Using WarnGen

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
A. Starting WarnGen	From the D2D Menu Bar, left-click on the <u>Yellow WarnGen Button</u> in the upper right hand corner of the main D2D display window. Once WarnGen has started, the WarnGen window will open and there will be a white dot, labeled with " <u>Drag Me to Storm</u> ", in the middle of the main display pane.	<u>5.0</u>
B. Initializing WarnGen for Storm Motion	Once the white dot with " <u>Drag Me to Storm</u> " appears in the main display pane, drag that dot to your storm of interest. Place the dot on the part, or feature, of the storm you want to use to determine storm motion. Toggle back several (at least two or three) time steps on the main display pane. Again, drag the dot over the part of the storm, or storm feature, that you are using to track storm motion. Once you have dragged the dot the second time, the <u>Pathcast</u> will be updated in the main display pane using your new storm motion vector. In the WarnGen window, click on the " <u>Redo Box</u> " Button to redraw the warning area according to the new storm motion vector.	<u>5.0</u>
C. Initializing WarnGen for Product Type	To select the type of product you would like to issue, go to the WarnGen window to the <u>Product Type Area</u> . There will be several products listed on the display with a check box along with an "Other" category. If the product you wish to issue is specifically listed on the GUI, check the box next to that product. Otherwise, check next to the "Other" category and use the <u>Window Product Pull Down Menu</u> to <u>Select the Product</u> you wish to create. In addition, for OB2, there is a new menu option called " Update List / Followup Action List " - This new menu button in the Product Type area of the WarnGen Dialog Box contains a dynamic list of available actions and warning IDs to issue followup statements when warnings are currently valid, or have expired in the last two hours. The contents of this list depend on which Product Type you have selected. Refer to <u>User's Manual Section 5.3</u> .	<u>5.3</u>

AWIPS Job Sheet	Job Task Description	AWIPS Users Manual Section
D. Initializing WarnGen for Time Range	To determine the time length of the product you wish to issue, go to the WarnGen window to the <u>Time Range</u> area. There will be a pull down menu next to the label <u>Duration</u> . Use that pull down menu to change the time range to the period of time you would like your product to be issued for.	<u>5.3</u>
E. Initializing WarnGen for Call-to-Action Statements	To choose the call-to-action statements and other items in your product, go to the WarnGen window to the <u>Optional Bullets</u> area. There will be a list (depending on which product you choose) of items you can add to your product. Left-click on each item you want included in your product.	<u>5.3</u>
F. Initializing Other WarnGen Options	There are other options to consider when using WarnGen. For instance, if you are issuing a product for a neighboring CWA you will need to use the pull down menu in the <u>Backup</u> area of the WarnGen window to select which CWA you are issuing your product for. There is also the possibility that you want to issue a product for a line of storms instead of a single storm. WarnGen has an option under the <u>Track Type</u> area that lets the user change the "Drag Me to Storm" dot to a <u>Line Segment</u> using the "Line of Storms" check box. (While this option is useful in certain circumstances, the user is reminded to be calculate storm motion for the line as a whole, not for individual storms in the line.)	<u>5.3</u>
G. Creating Text Product	Once you have defined your product using all of the areas of the WarnGen window, you can create your text product by clicking the <u>Create Text Button</u> . The Text Display window containing the product you just created will come up. Edit the product, as needed, to better communicate to the public and, when finished, left-click on the "File" submenu and left-click on the "Send & Exit" button.	<u>5.4</u> (practice module for WarnGen)

Figures for IC 5.1



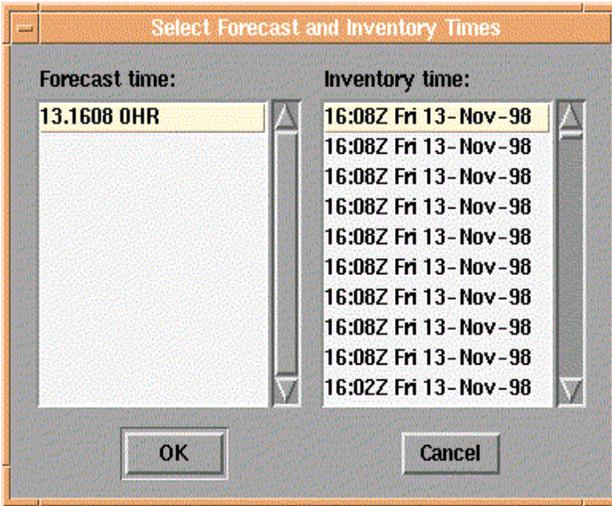
Kxxx Pull Down Menu



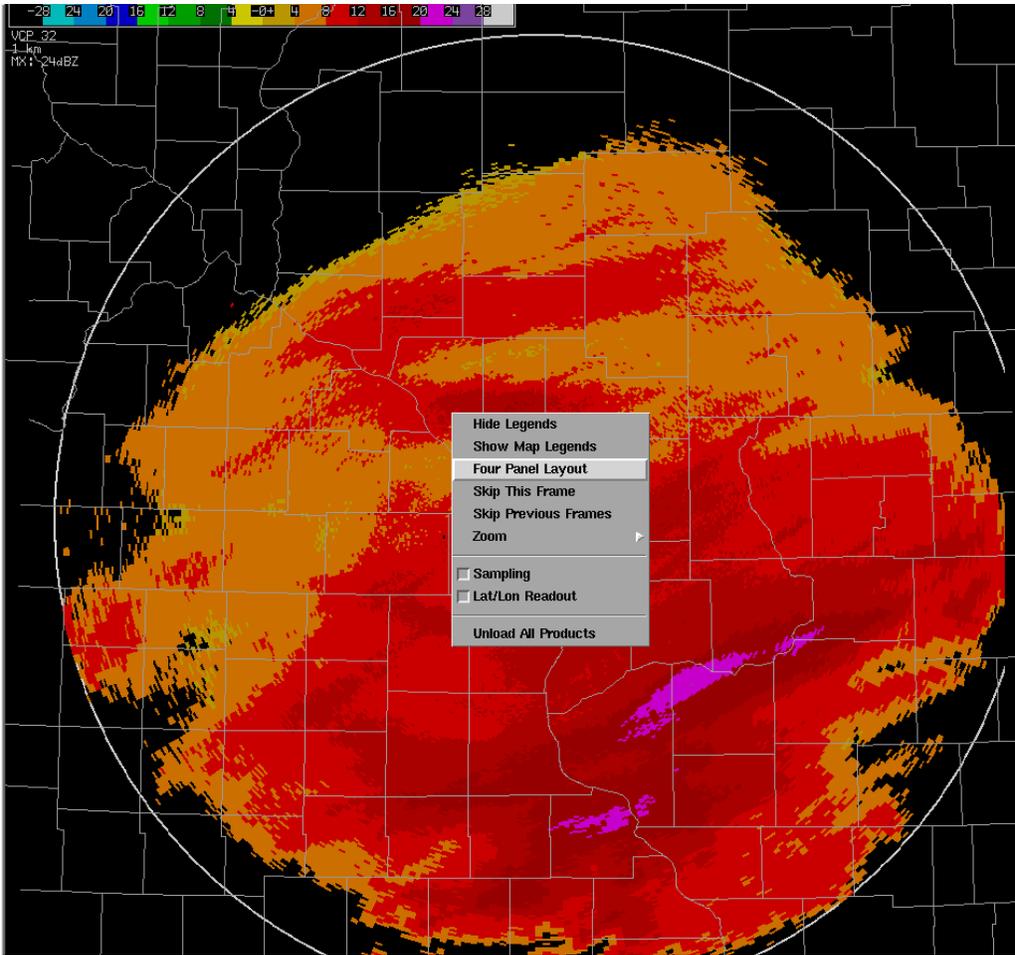
Radar Pull Down Menu



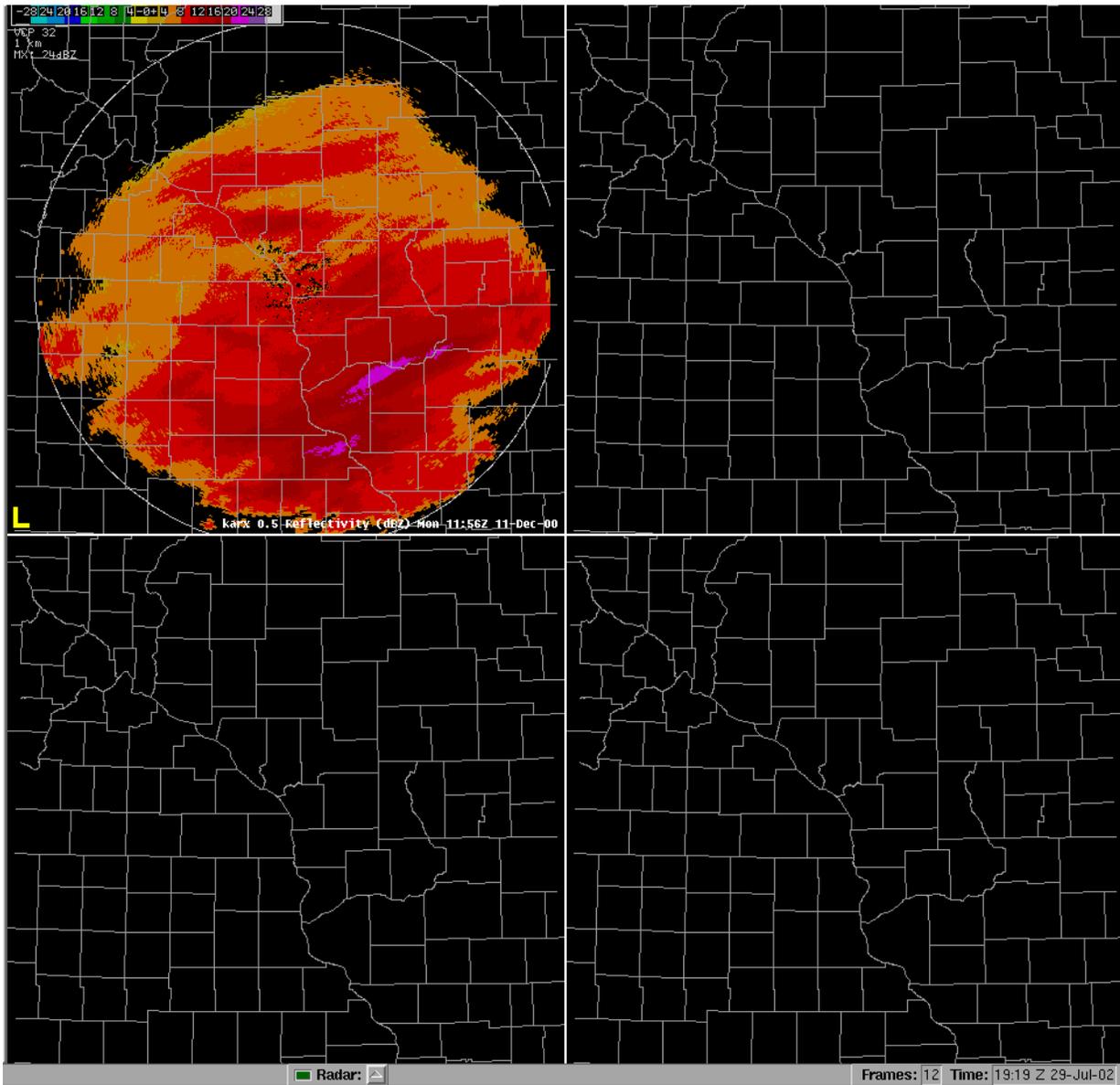
Tool Bar



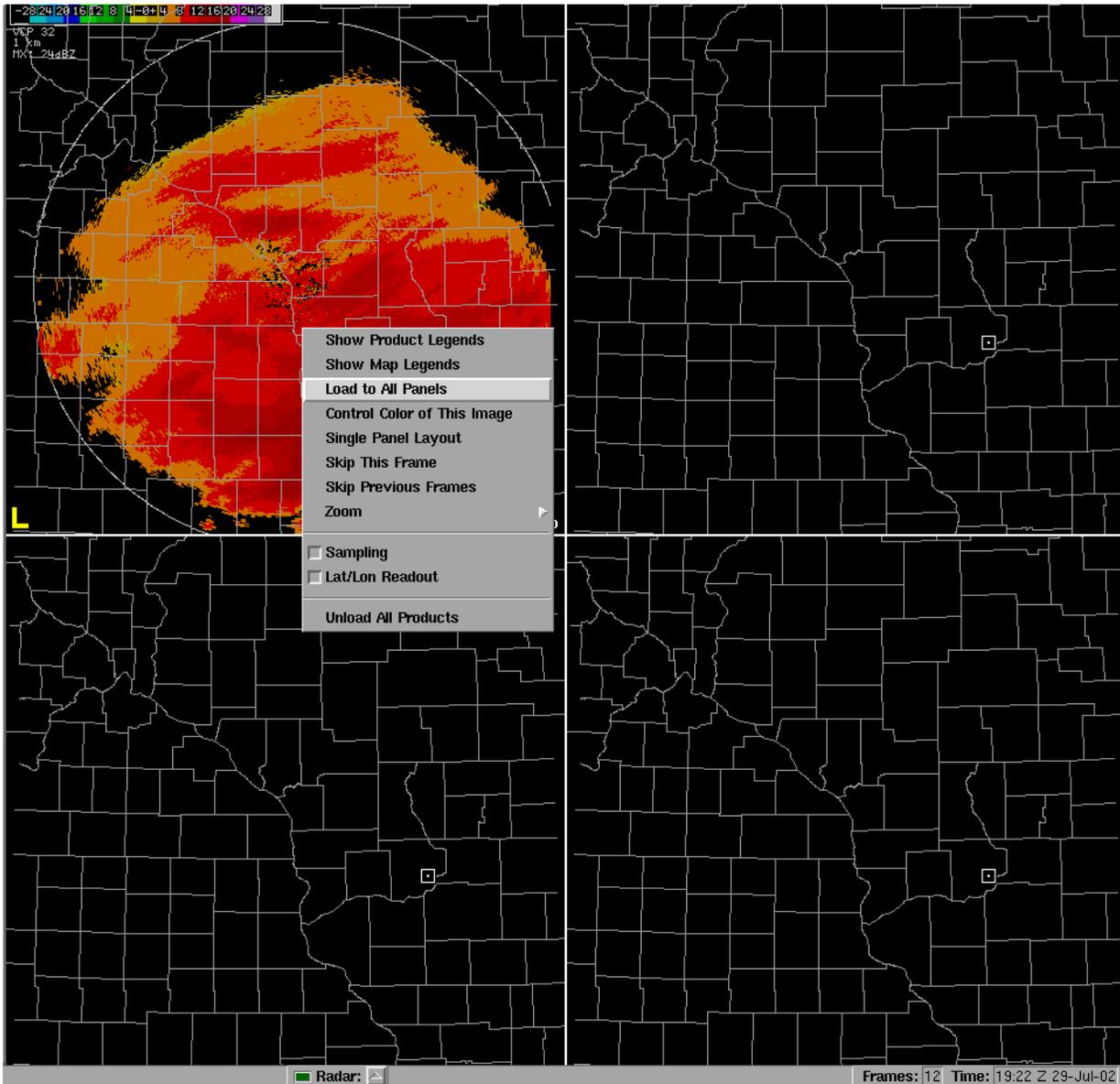
Select Forecast and Inventory Time Dialog Box



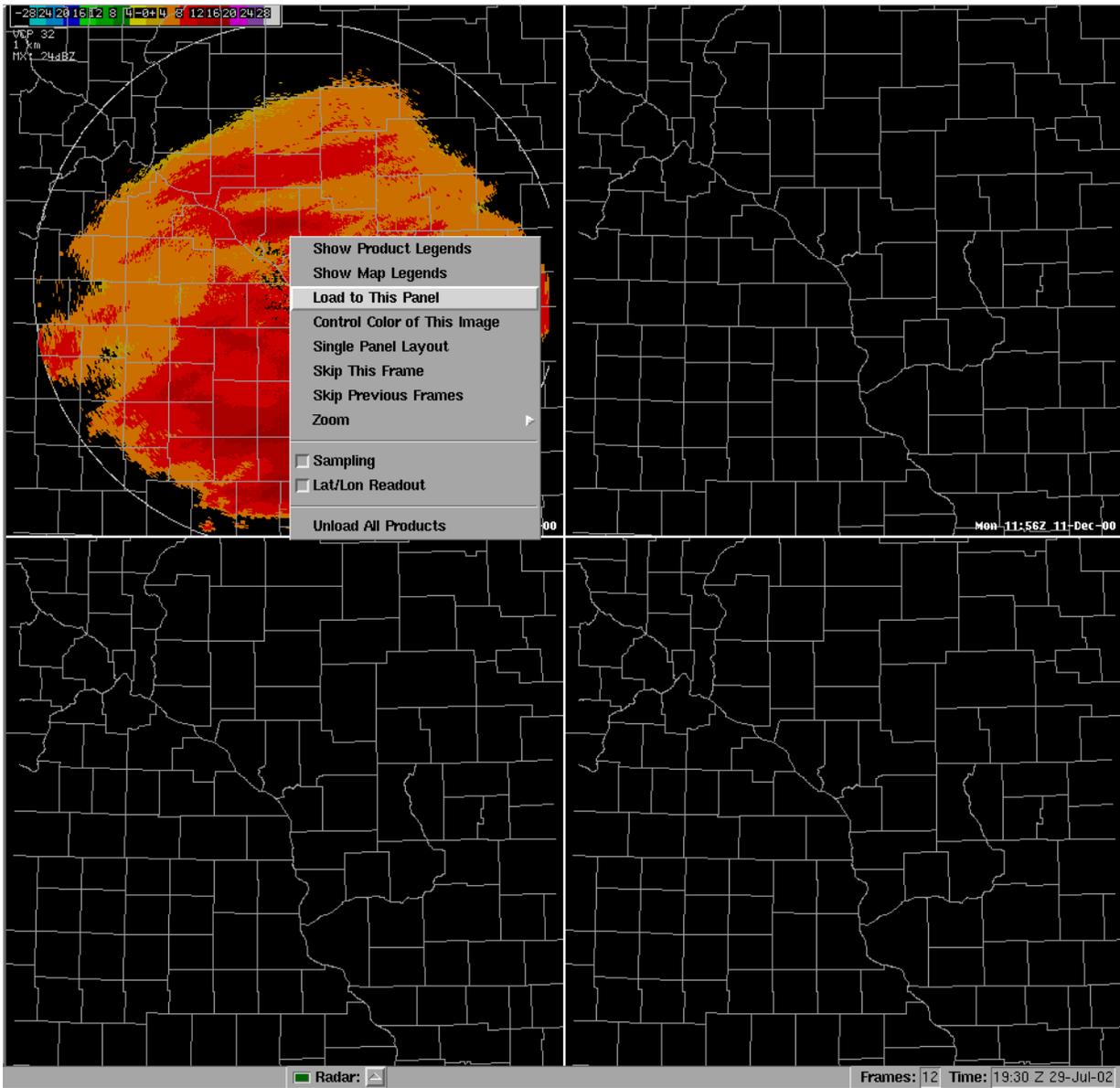
Select Four Panel Layout



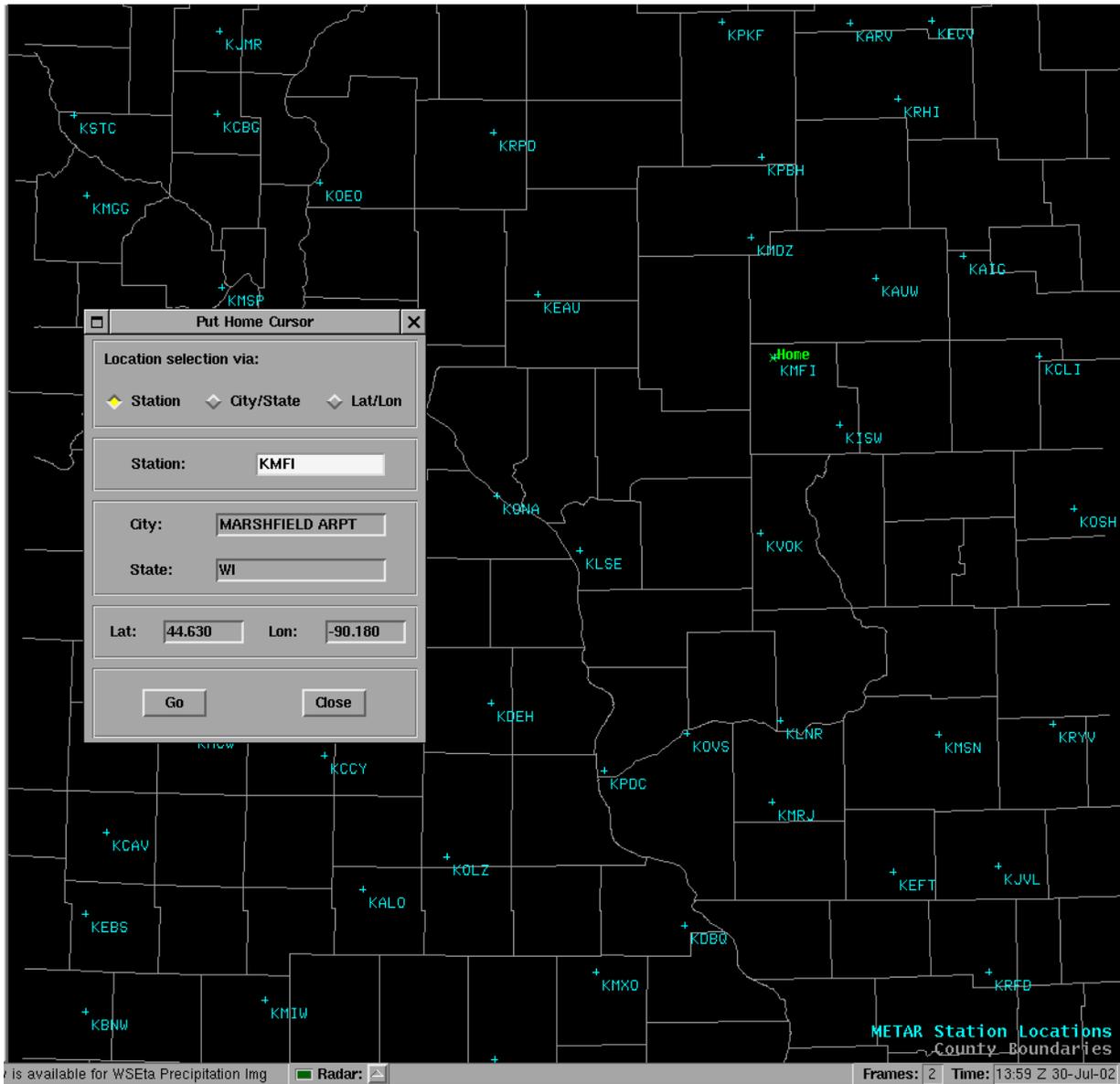
Four Panel Mode



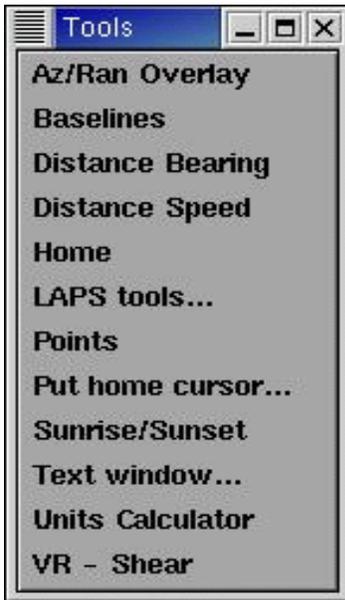
Load To All Panels



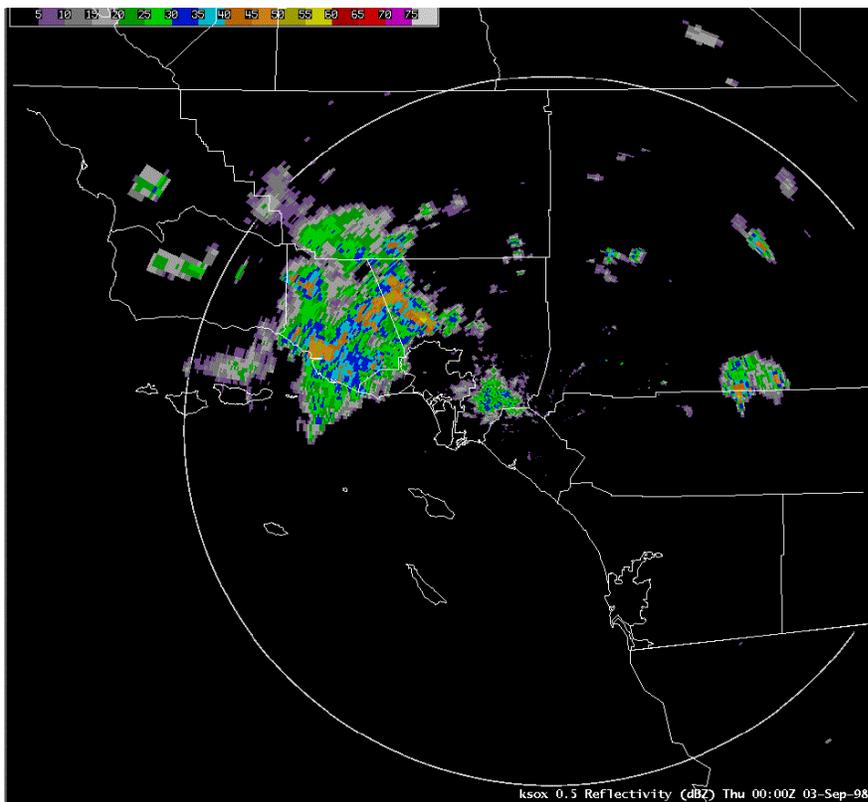
Load To This Panel



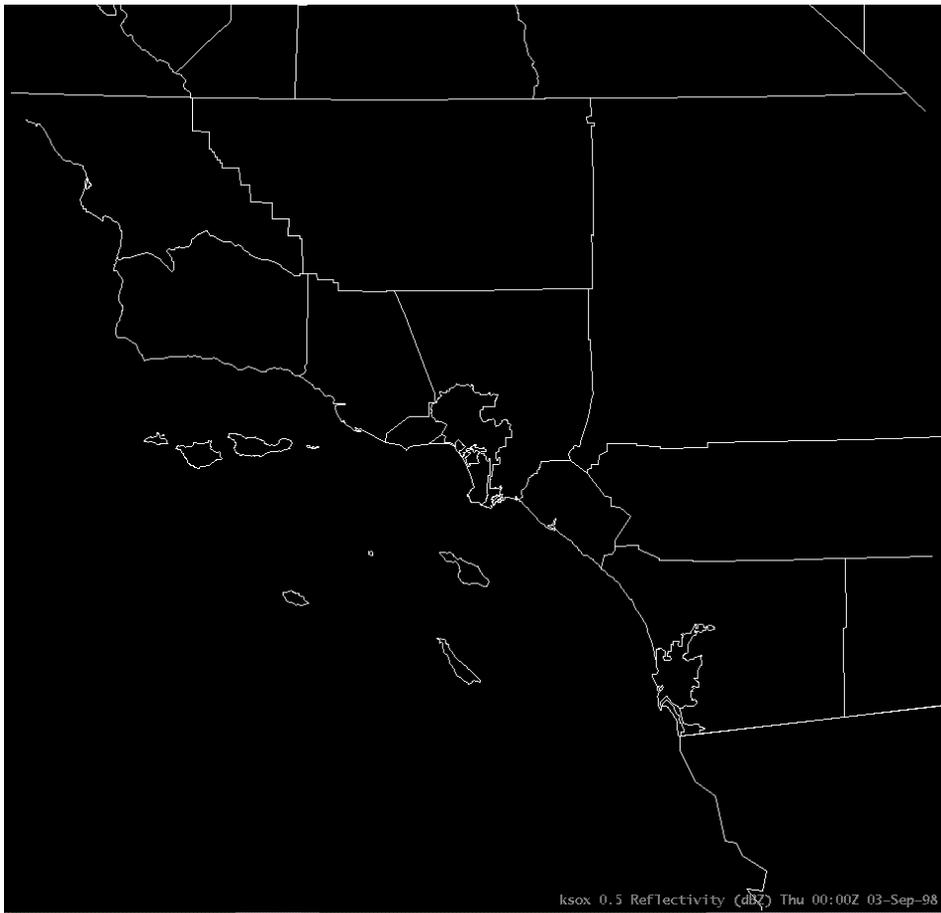
Put Home Cursor Option



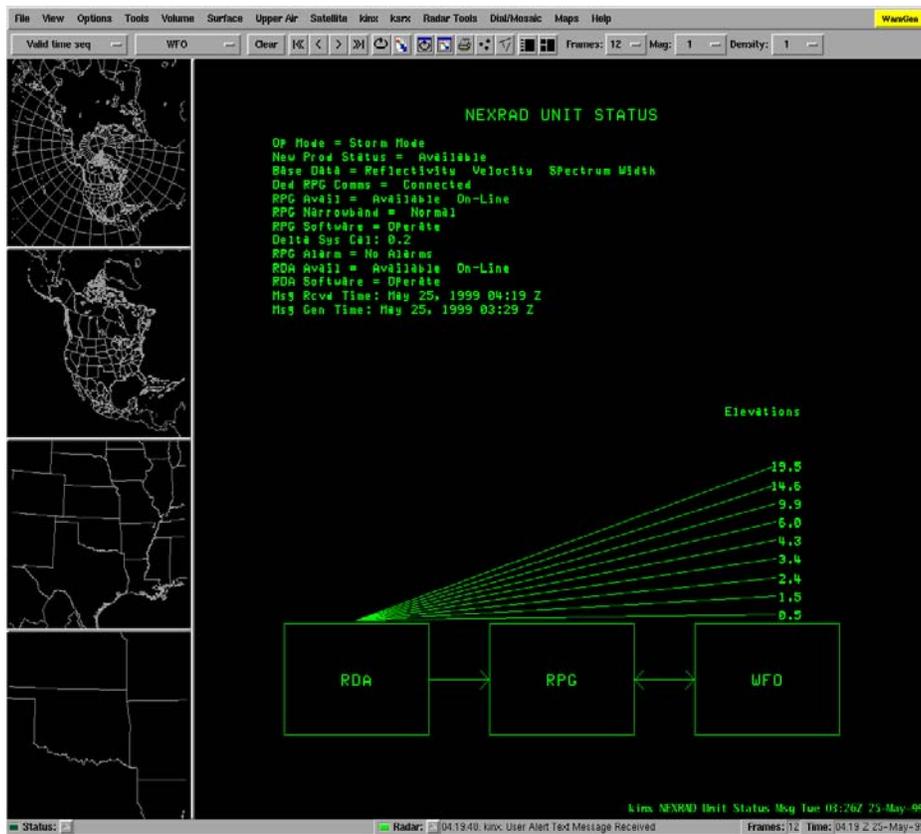
Tools Pull Down Menu



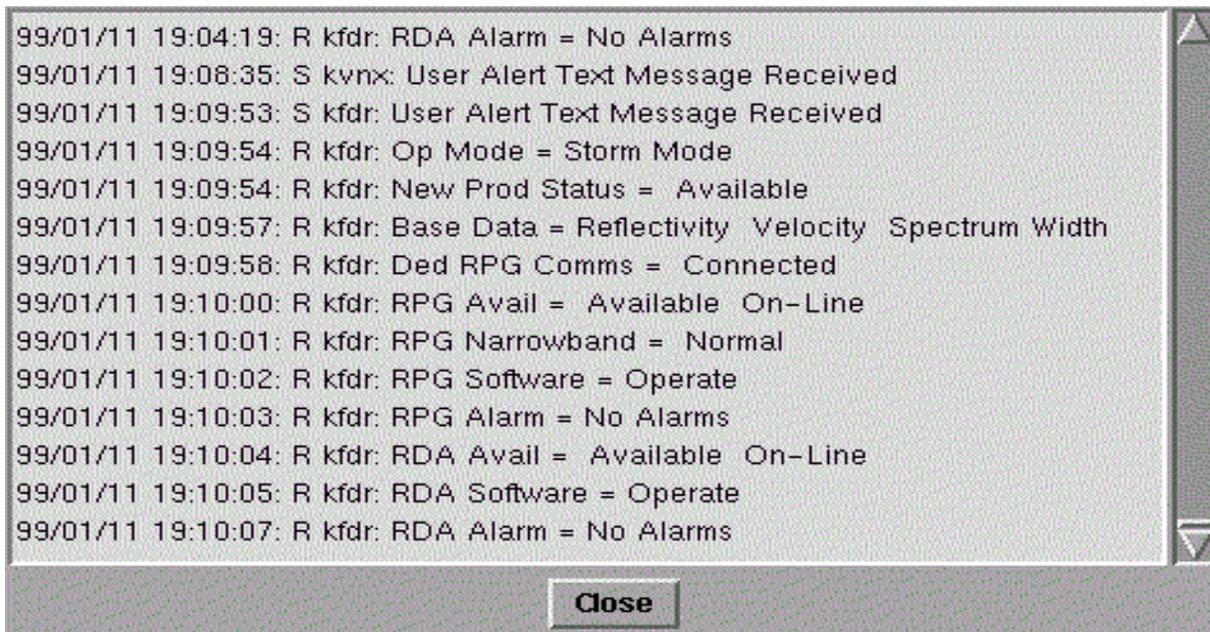
Select Product Legend



Deselect Product Legend



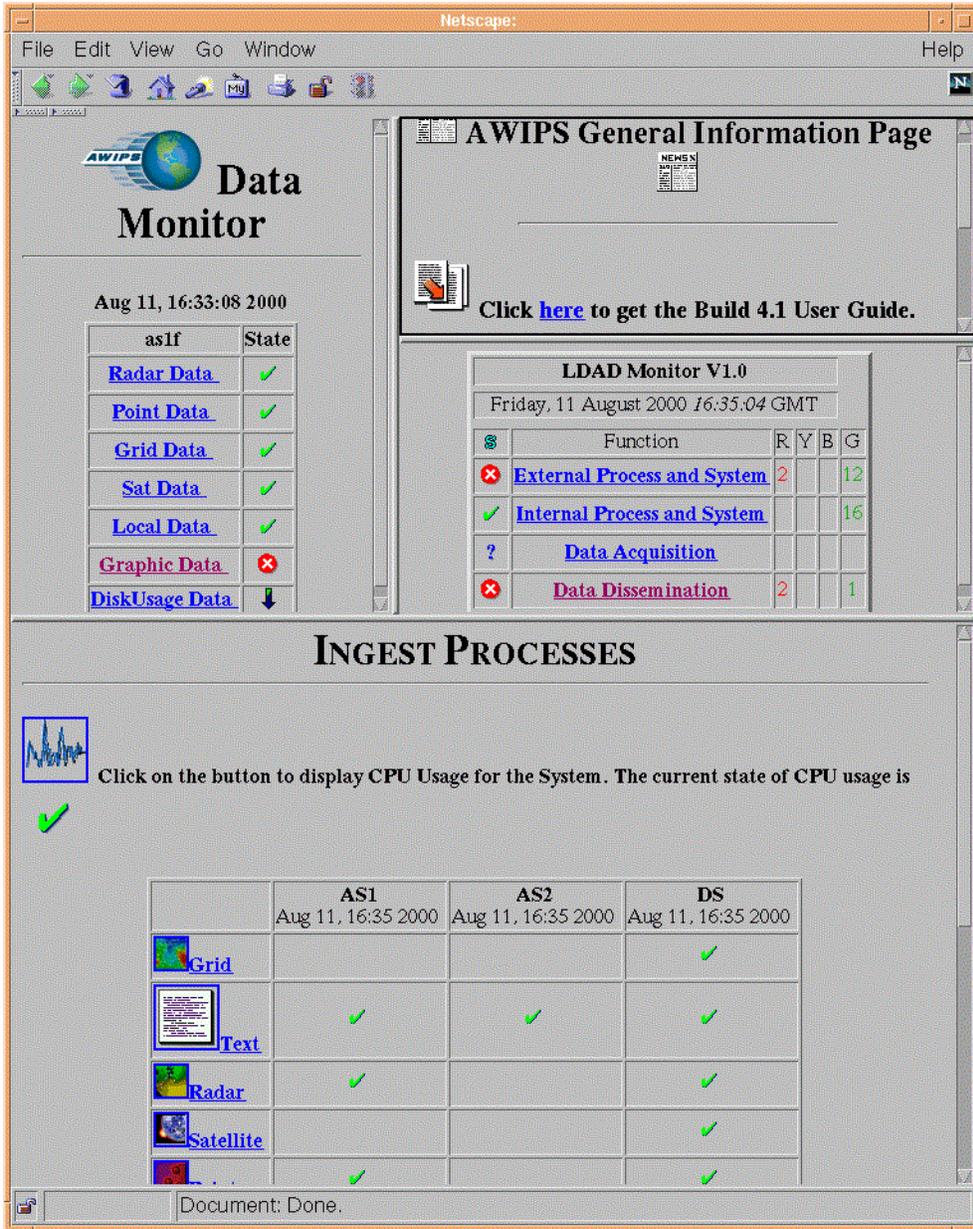
NEXRAD Unit Status Message Product (USM)



Radar Status Bar



Red Banner Message



AWIPS Data Monitor

Dedicated - One Time Request

Repeat count: RPG:

Product:

Priority:

Request Interval:

Elevation:

Use average speed and direction of currently identified storms.

Speed (kt) - Used For Dedicated RPGs Only

Direction (deg) - Used For Dedicated RPGs Only

Time: Current Latest Selected

Selected time:

Dialog Box

98/12/17 18:50:05: S kict: Z Not Gen OTN 1849 1.00 0.50
98/12/17 18:50:05: S kict: Disconnecting line
98/12/17 18:50:28: S kinx: User Alert Text Message Received
98/12/17 18:51:27: S kfws: Line Connected
98/12/17 18:51:28: R kfws: Op Mode = Clear Air
98/12/17 18:51:28: R kfws: New Prod Status = Available
98/12/17 18:51:30: R kfws: Base Data = Reflectivity Velocity Spectrum Width
98/12/17 18:51:31: R kfws: Ded RPG Comms = Connected
98/12/17 18:51:32: R kfws: RPG Avail = Available On-Line
98/12/17 18:51:33: R kfws: RPG Narrowband = Normal
98/12/17 18:51:34: R kfws: RPG Software = Operate
98/12/17 18:51:36: R kfws: RPG Alarm = No Alarms
98/12/17 18:51:37: R kfws: RDA Avail = Available On-Line
98/12/17 18:51:38: R kfws: RDA Software = Operate
98/12/17 18:51:39: R kfws: RDA Alarm = No Alarms
98/12/17 18:51:40: R kfws: One Time Request sent successfully.
98/12/17 18:51:51: S ksrx: User Alert Text Message Received
98/12/17 18:51:57: R ksrx: Op Mode = Clear Air
98/12/17 18:51:57: R ksrx: New Prod Status = Available
98/12/17 18:51:59: R ksrx: Base Data = Reflectivity Velocity Spectrum Width
98/12/17 18:52:00: R ksrx: Ded RPG Comms = Connected
98/12/17 18:52:01: R ksrx: RPG Avail = Available On-Line
98/12/17 18:52:02: R ksrx: RPG Narrowband = Normal
98/12/17 18:52:03: R ksrx: RPG Software = Operate
98/12/17 18:52:04: R ksrx: RPG Alarm = No Alarms
98/12/17 18:52:06: R ksrx: RDA Avail = Available On-Line
98/12/17 18:52:08: R ksrx: RDA Software = Operate
98/12/17 18:52:09: R ksrx: RDA Alarm = No Alarms
98/12/17 18:52:10: S kfws: Z OTA 1849 1.00 0.50
98/12/17 18:52:10: S kfws: Disconnecting line

Close

Radar Status Bar

ktlx Refle	
0.5 Refl	04.1924
1.5 Refl	04.1914
2.4 Refl	---,----
2.5 Refl	04.1914
3.4 Refl	---,----
3.5 Refl	04.1914
4.3 Refl	---,----
4.5 Refl	---,----
5.3 Refl	---,----
6.0 Refl	---,----
6.2 Refl	---,----
7.5 Refl	---,----
8.7 Refl	---,----
9.9 Refl	---,----
10.0 Refl	---,----
12.0 Refl	---,----
14.0 Refl	---,----
14.6 Refl	---,----
16.7 Refl	---,----
19.5 Refl	---,----
Refl (All)	

Radar Product Menu

Dedicated - One Time Request

Repeat count: RPG:

Product:

Priority:

Request Interval:

Data levels:

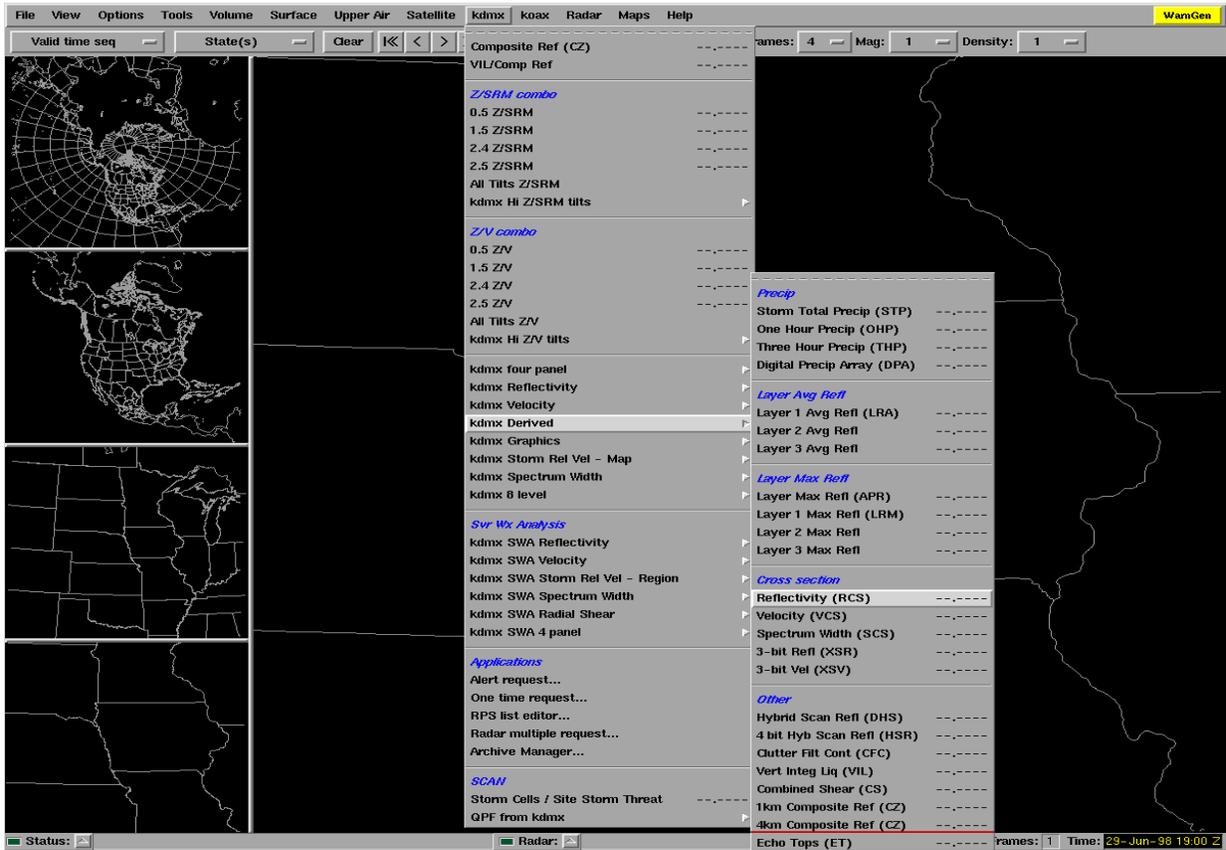
Baseline: Length: 215.8 nMi

Az/Ran:
A: 349/128
A': 100/133

Time: Current Latest Selected

Selected time:

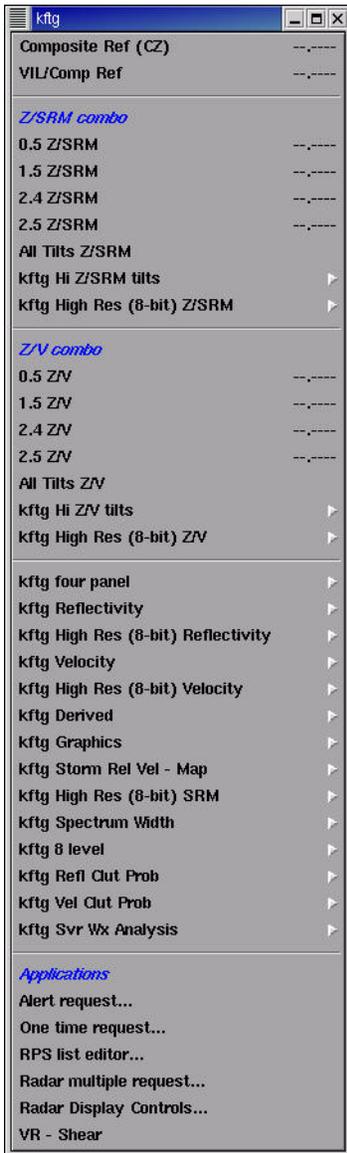
Reflectivity X-Sect (RCS)



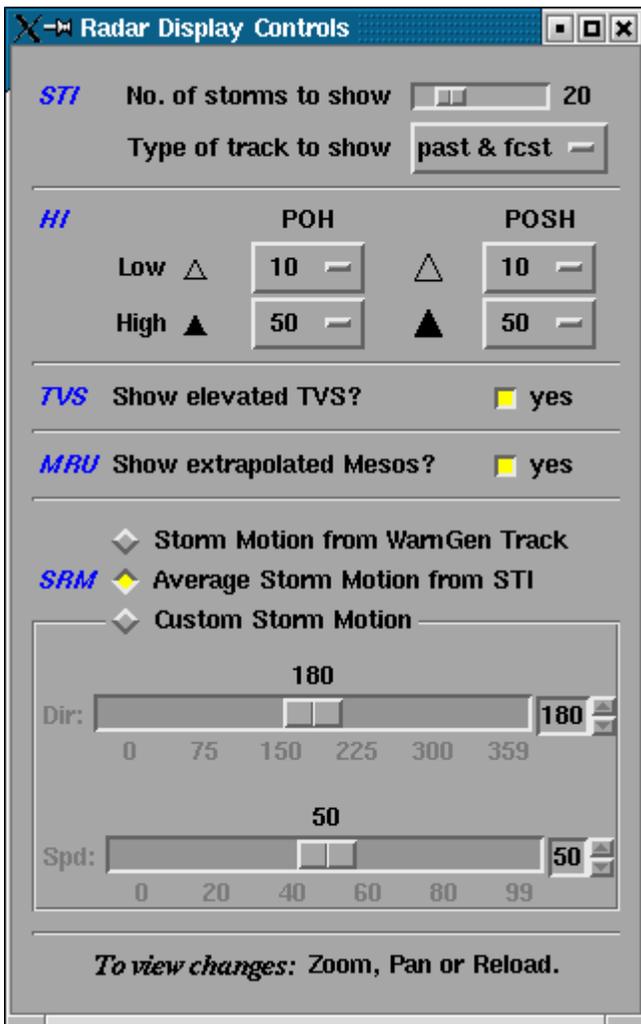
Kxxx Derived Cascading Menu



One Time Request



Kxxx Drop-Down Menu



Radar Display Controls Dialog Box

Forecast Systems Laboratory D-2D

File Options Tools Volume Surface Upper Air Satellite kcle Radar SCAN Maps Help

time seq WFO Clear [Left Arrow] [Right Arrow]

Composite Ref (CZ) --- Frames: 12 Mag: 1 Density: 1

VIL/Comp Ref ---

Z/SRM combo

0.5 Z/SRM ---

1.5 Z/SRM ---

2.4 Z/SRM ---

2.5 Z/SRM ---

All Tilts Z/SRM

kcle Hi Z/SRM tilts ▶

Z/V combo

0.5 Z/V ---

1.5 Z/V ---

2.4 Z/V ---

2.5 Z/V ---

All Tilts Z/V

kcle Hi Z/V tilts ▶

kcle four panel ▶

kcle Reflectivity ▶

kcle High Res (8-bit) Reflectivity ▶

kcle Velocity ▶

kcle High Res (8-bit) Velocity ▶

kcle Derived ▶

kcle Graphics ▶

kcle Storm Rel Vel - Map ▶

kcle Spectrum Width ▶

kcle 8 level ▶

Svr Wx Analysis

kcle SWA Reflectivity ▶

kcle SWA Velocity ▶

kcle SWA Storm Rel Vel - Region ▶

kcle SWA Spectrum Width ▶

kcle SWA Radial Shear ▶

kcle SWA 4 panel ▶

Applications

Alert request... ▶

One time request... ▶

RPS list editor... ▶

Radar multiple request... ▶

Archive Manager... ▶

0.5 SRR ---

1.5 SRR ---

2.4 SRR ---

2.5 SRR ---

3.4 SRR ---

3.5 SRR ---

4.3 SRR ---

4.5 SRR ---

5.3 SRR ---

6.0 SRR ---

6.2 SRR ---

7.5 SRR ---

8.7 SRR ---

9.9 SRR ---

10.0 SRR ---

12.0 SRR ---

14.0 SRR ---

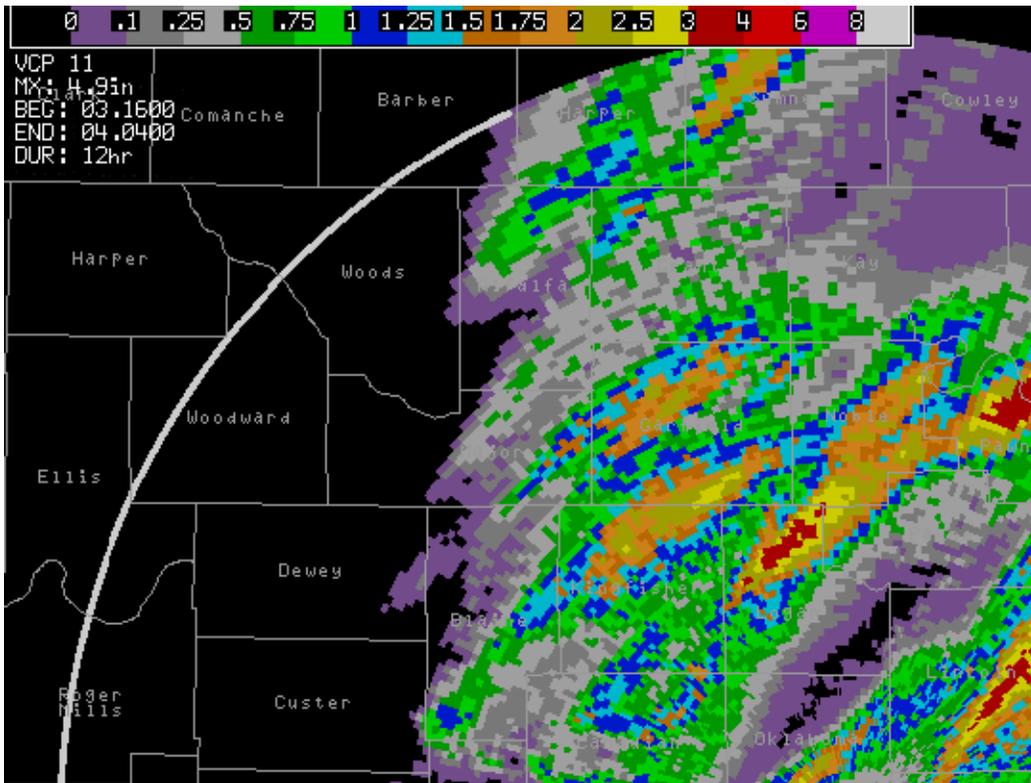
14.6 SRR ---

16.7 SRR ---

19.5 SRR ---

15:04:26: No data inventory is available for kcle 0.5 SWA SRR [Green Box] Radar: [Right Arrow] Frames:

Kxxx SWA Storm Rel Vel-Region



User Selectable Precip

<input type="checkbox"/>	Distance Speed	X
Mode:	<input checked="" type="radio"/> Point	<input type="radio"/> Polyline
Legend:	<input type="radio"/> Time	<input checked="" type="radio"/> Speed

Little Box



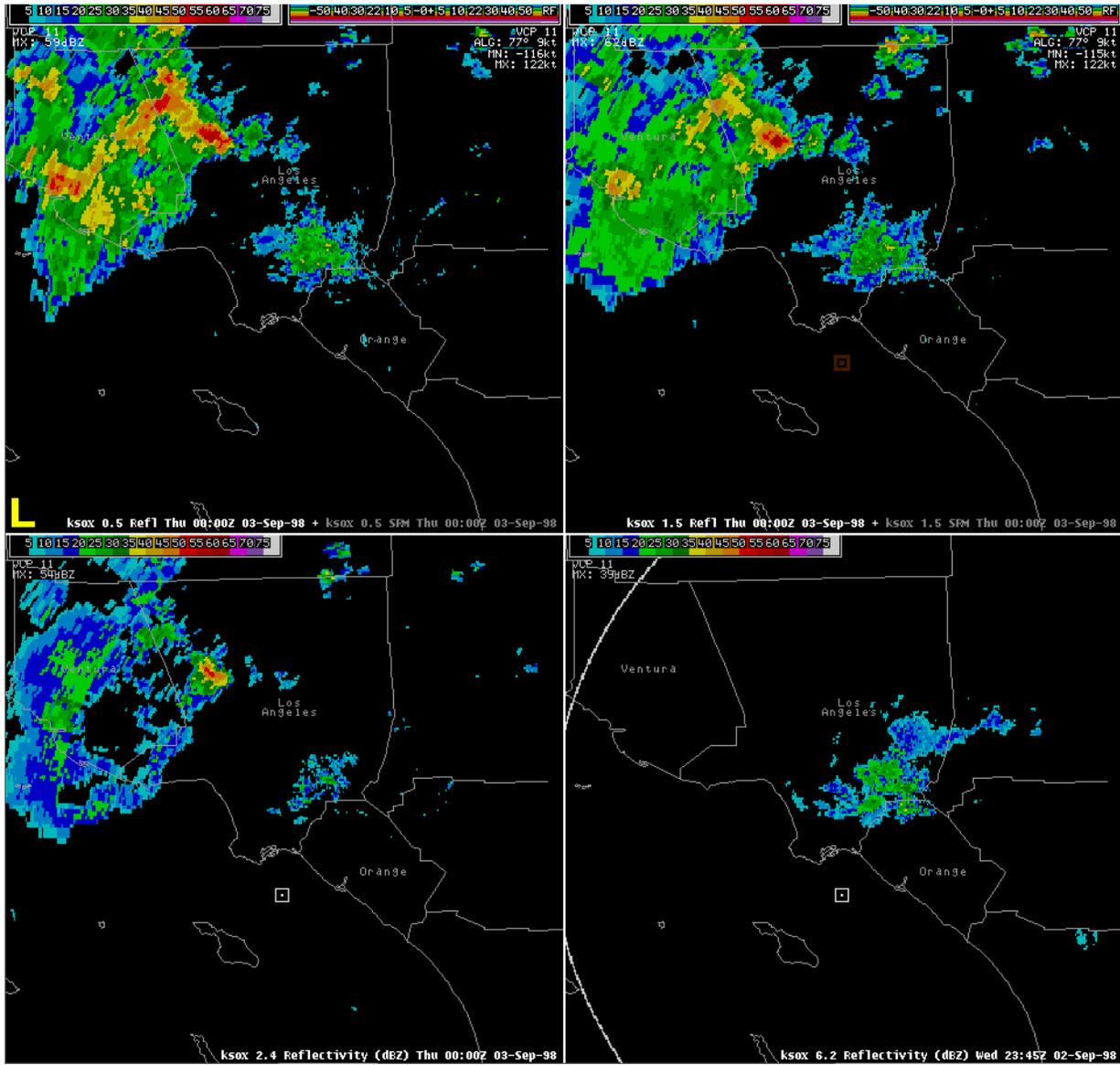
Maps



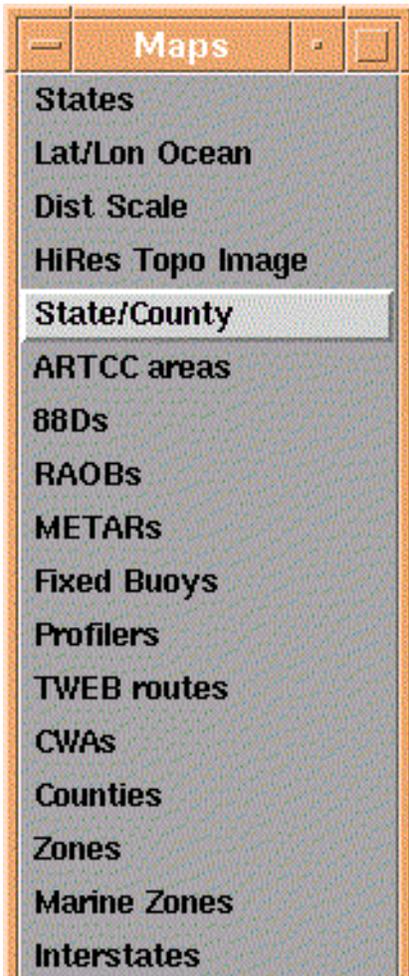
Pop-up Menu



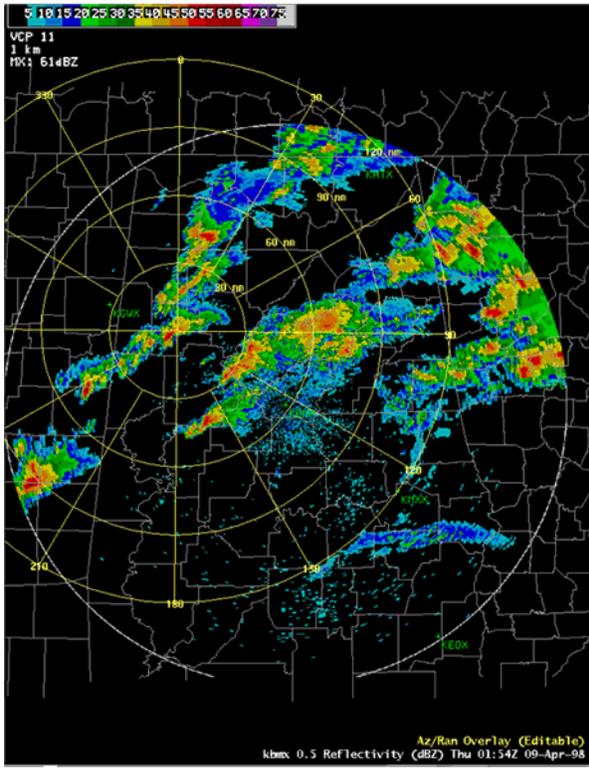
Show Product Legends



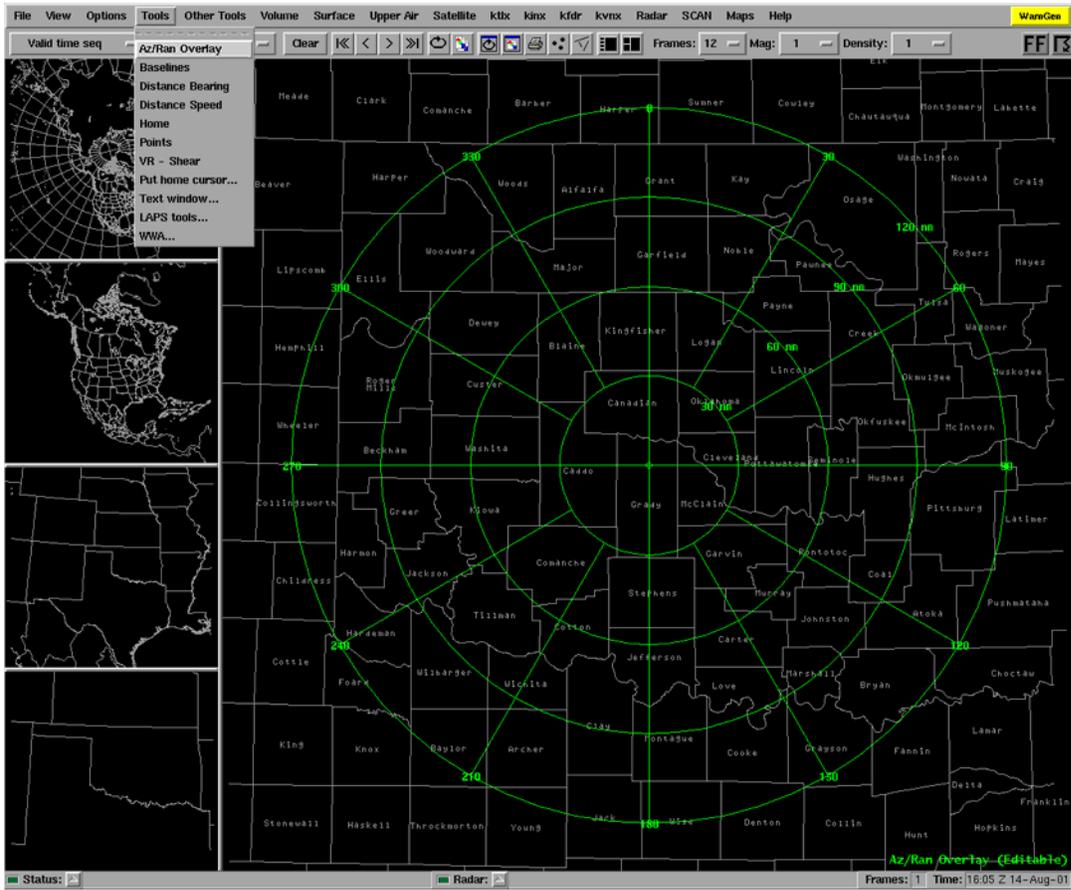
Yellow "L"



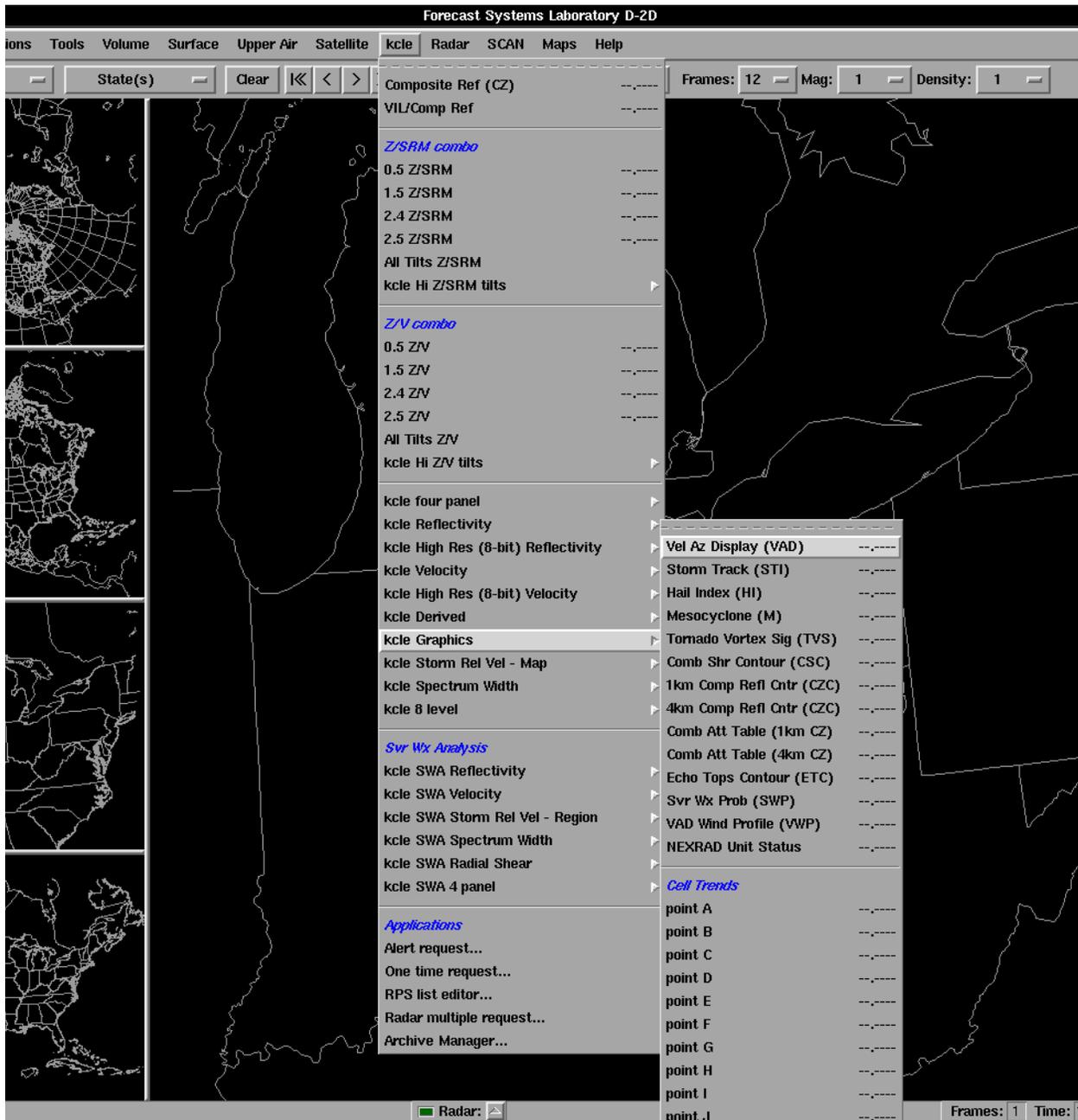
Maps



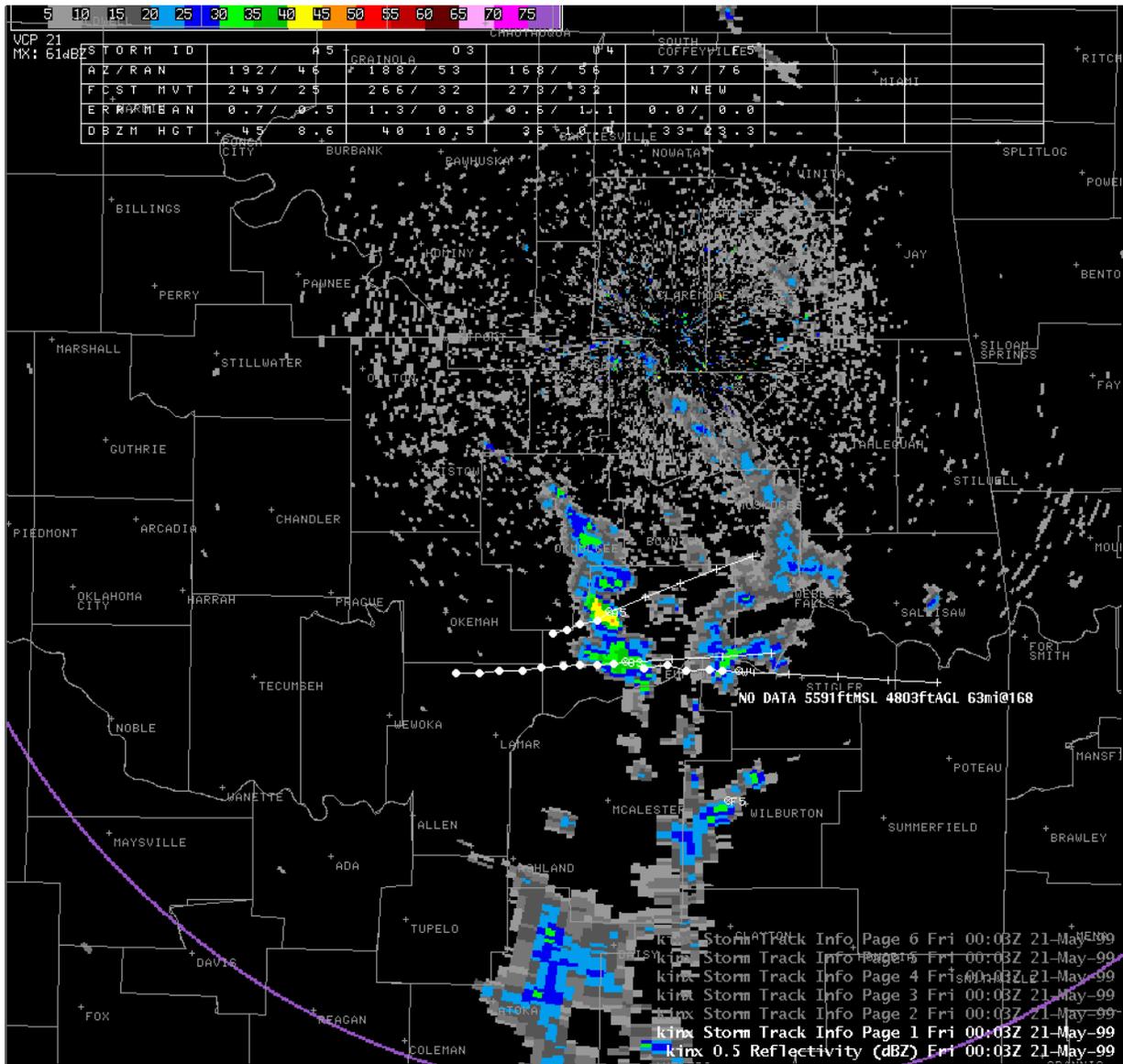
Different Location



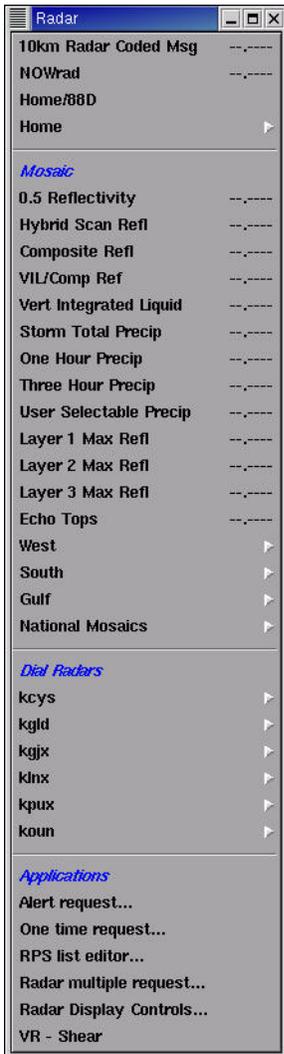
Az/Ran Overlay Tool



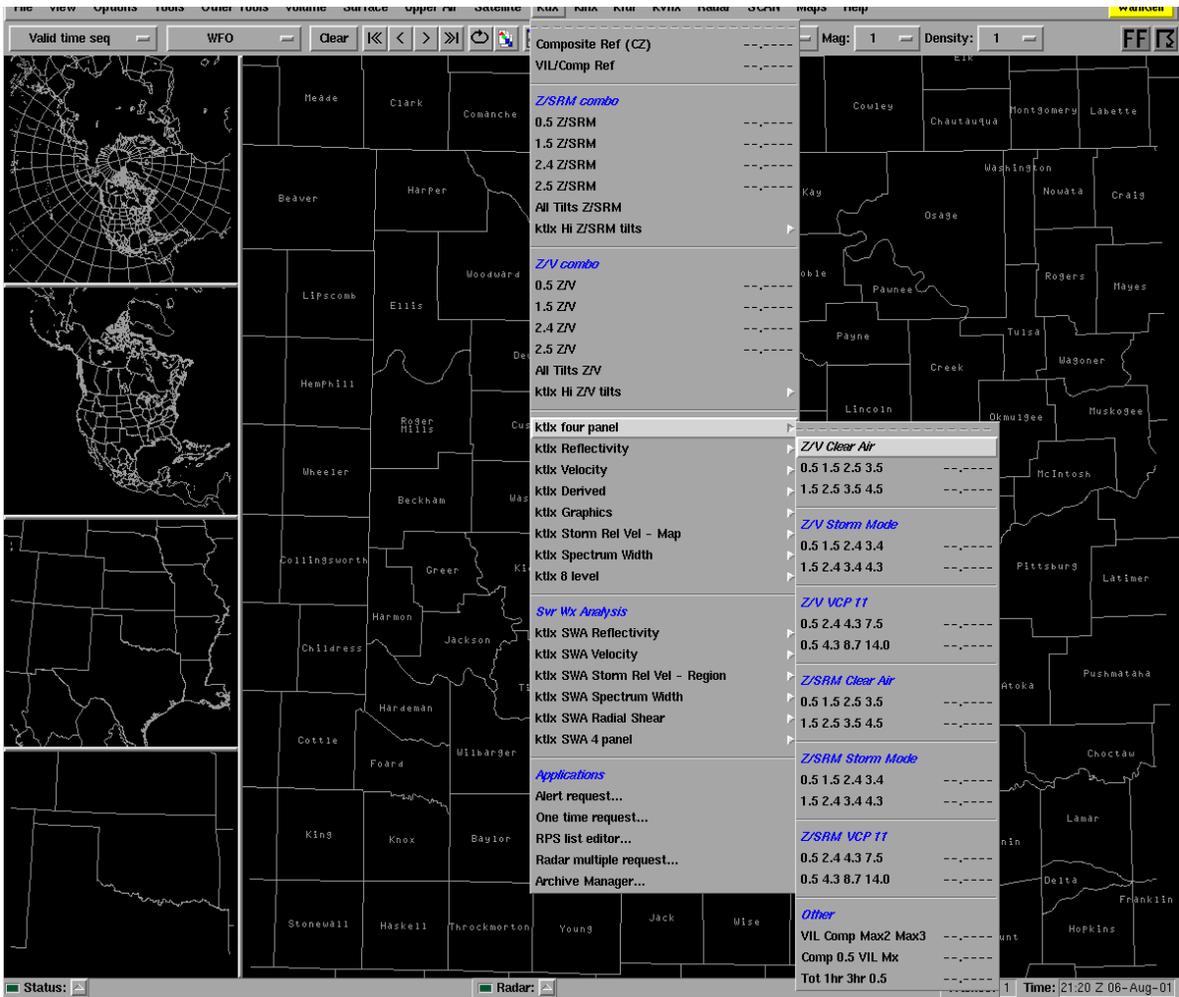
Kxxx Graphics



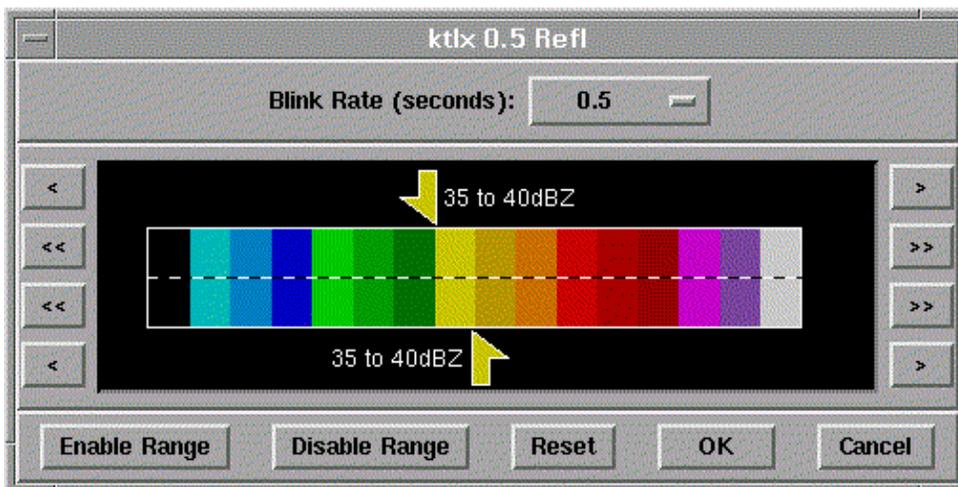
Storm Track Information (STI)



Radar Pull-Down Menu



Sub Menu



Enable Range

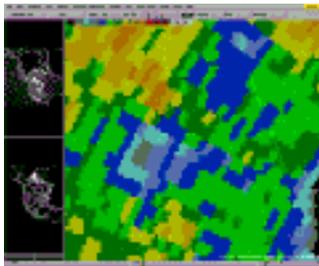
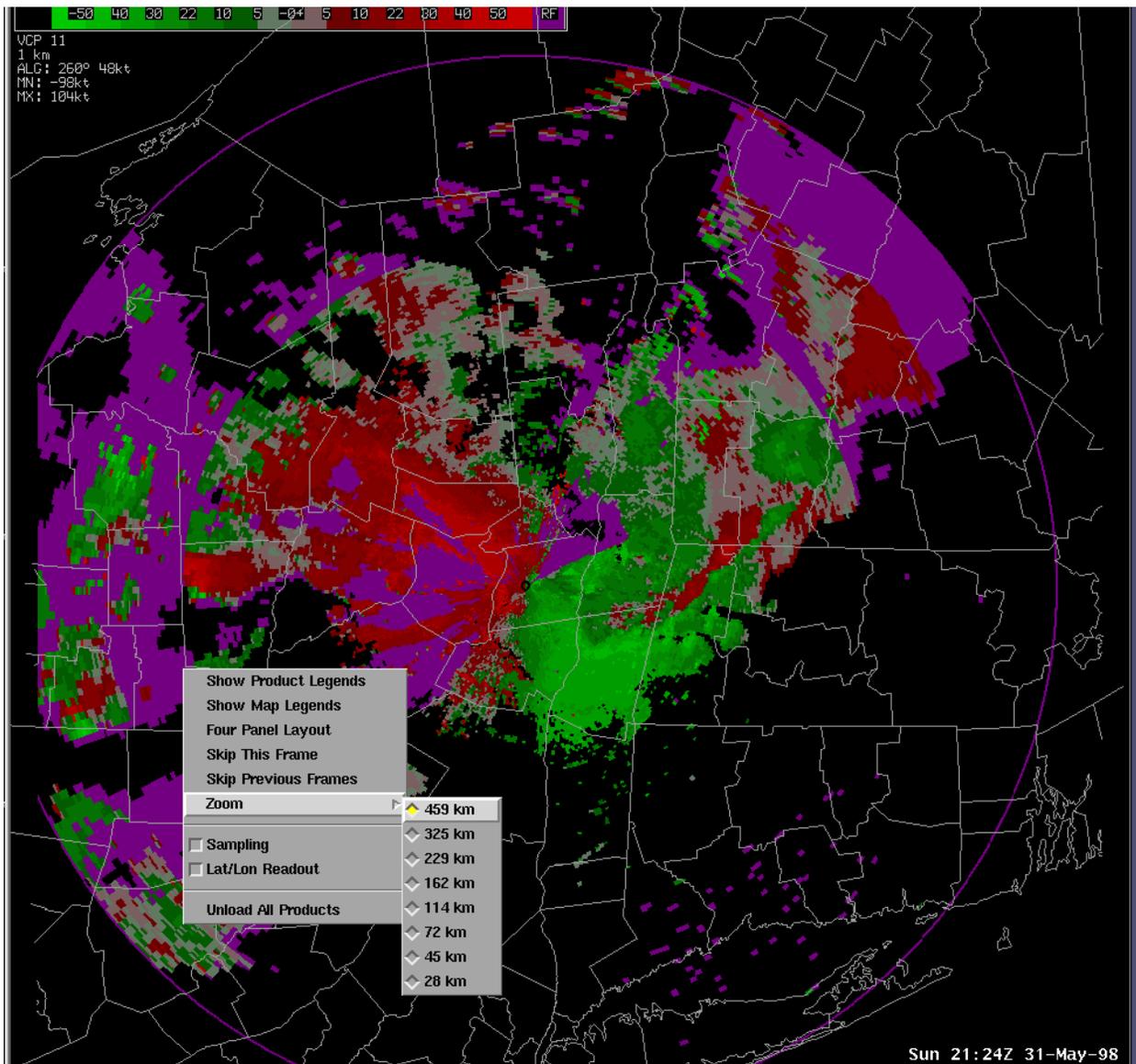


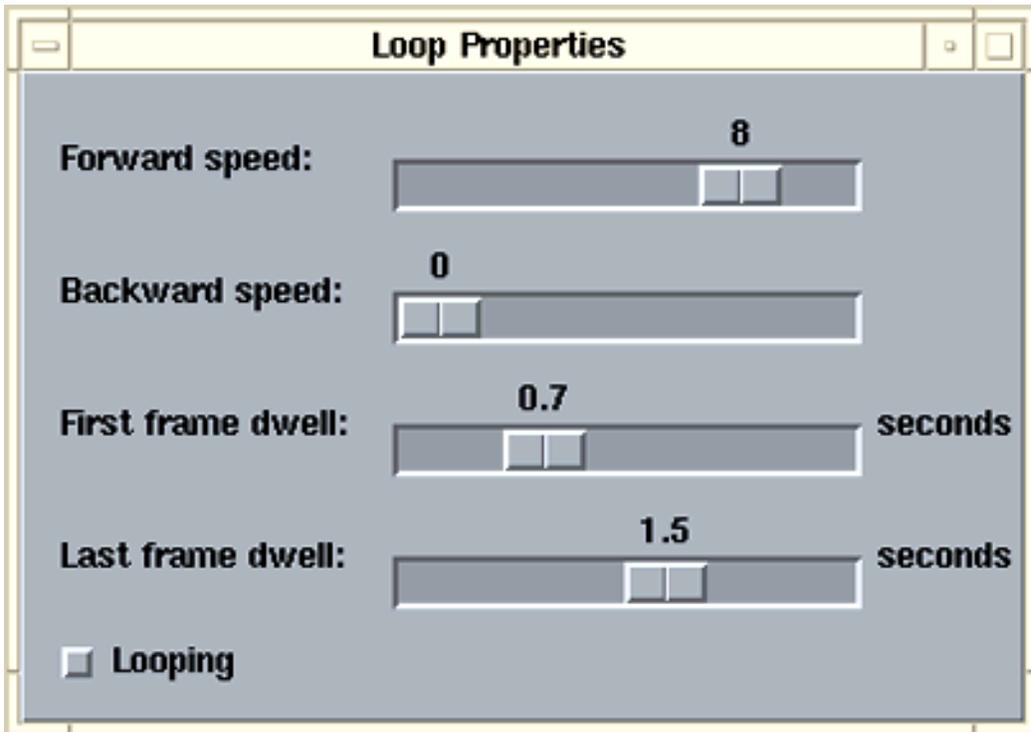
Image Product



Zoom



Looping Icon Button



Loop Properties Dialog Box



Loop Properties Icon

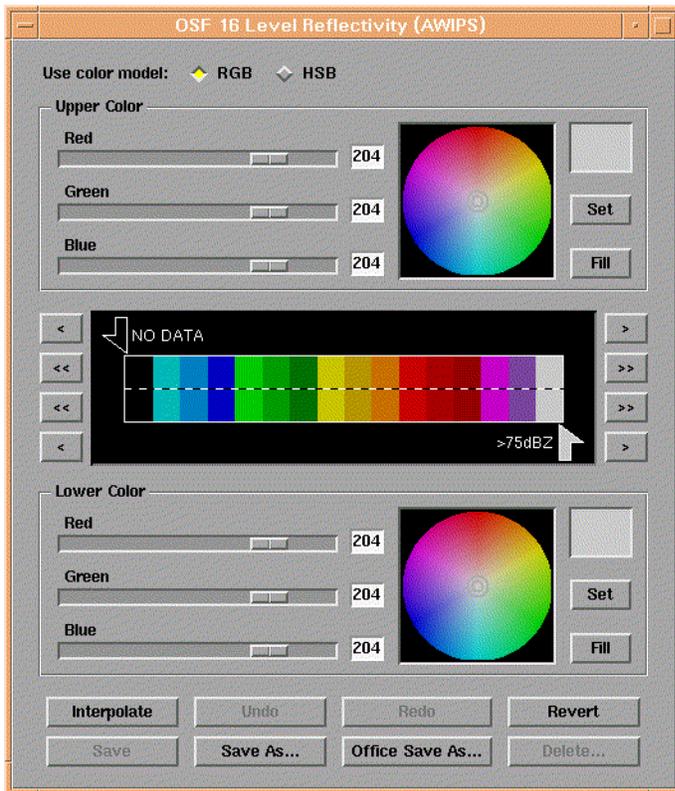


Image Colors Editor



Office Save As

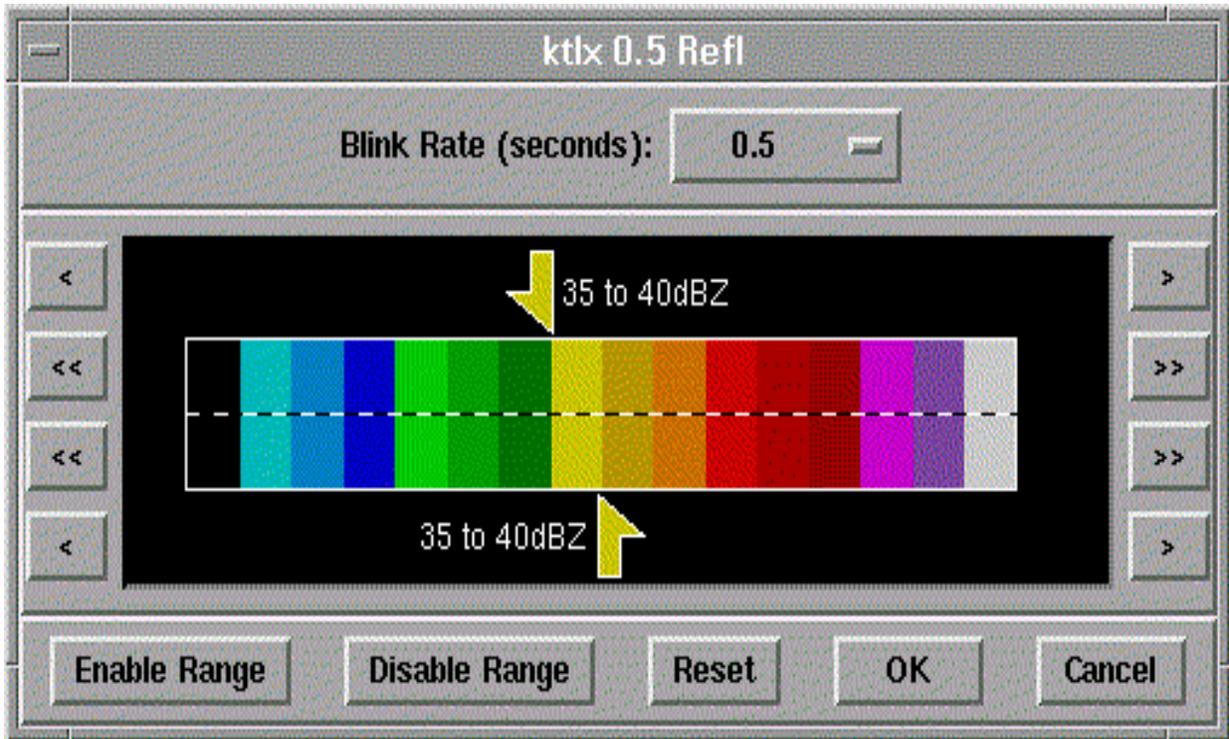
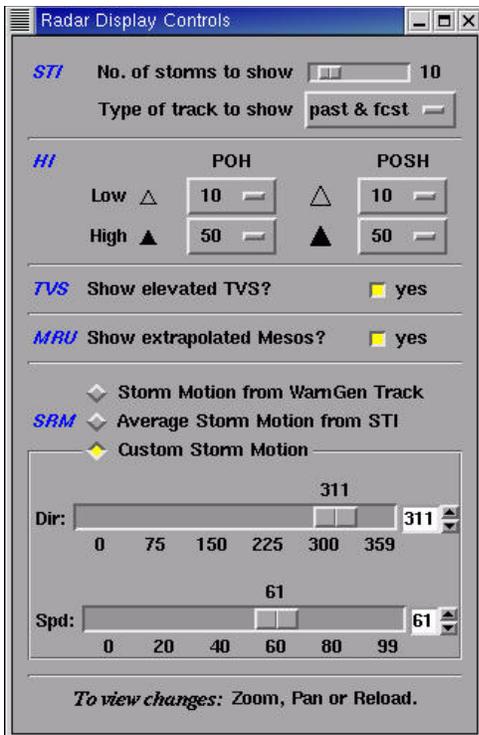
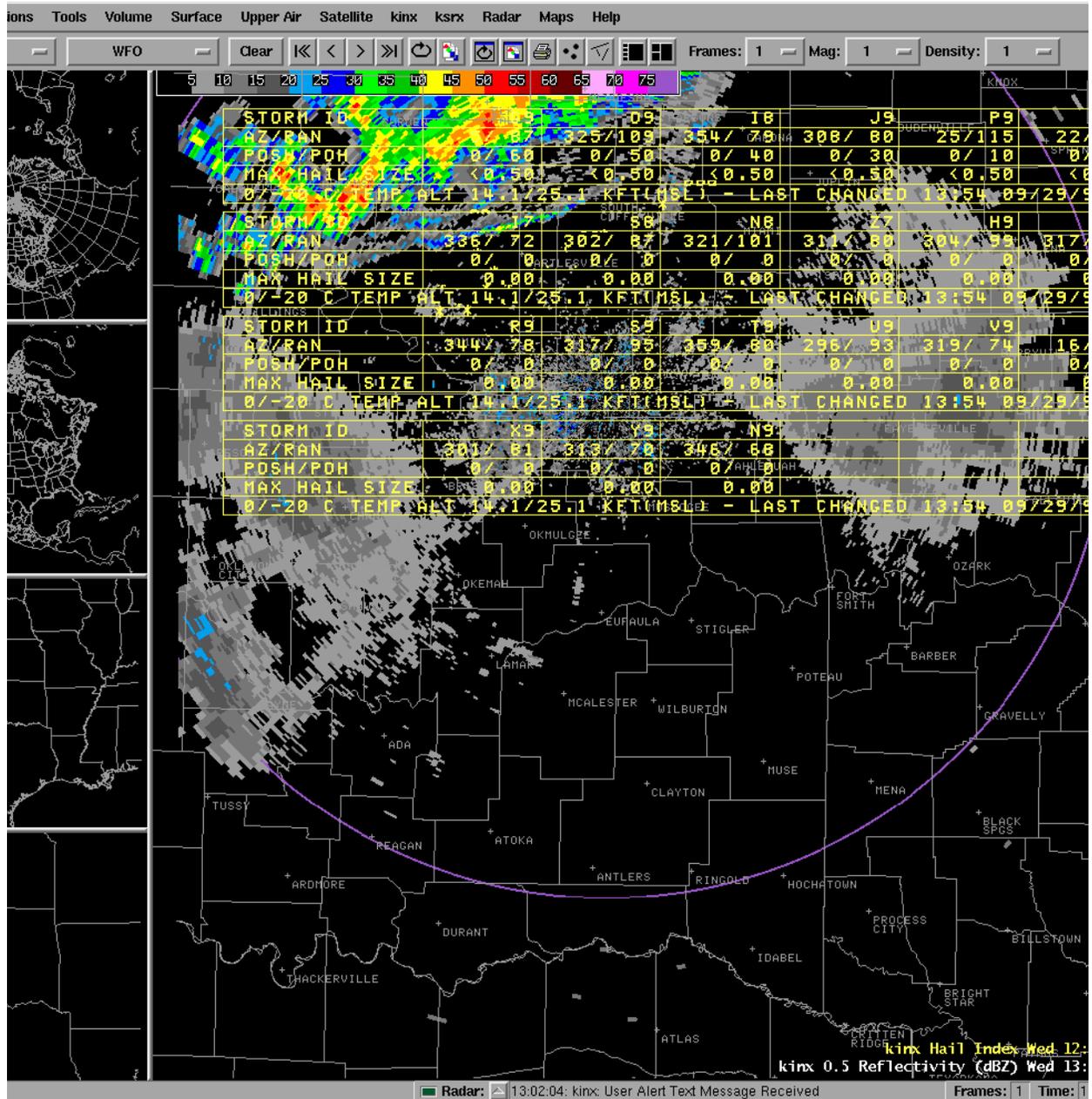


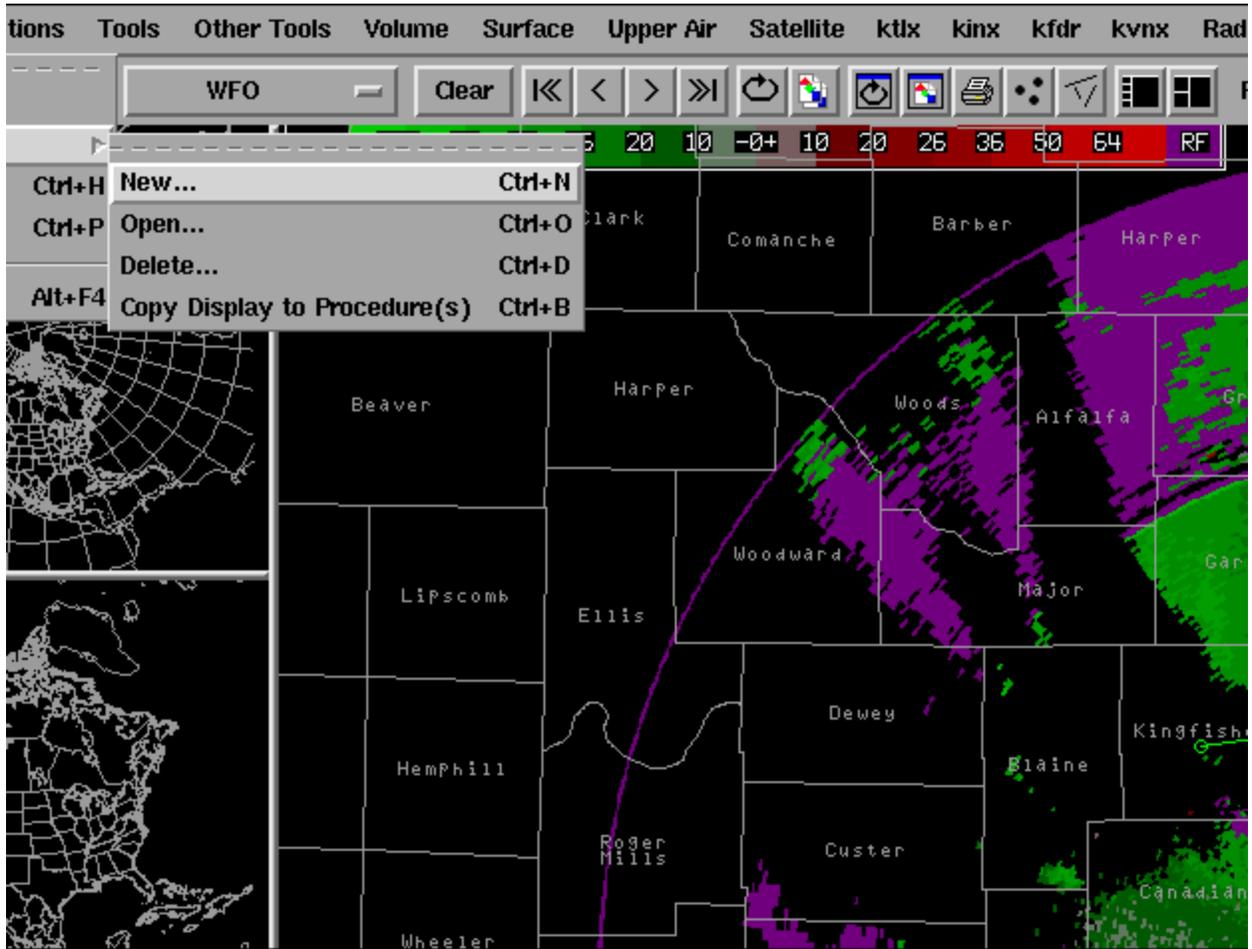
Image Blinking Dialog Box



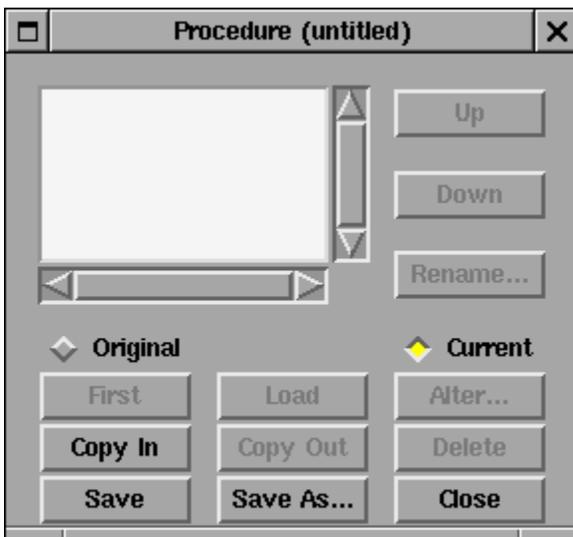
Radar Display Controls



Hail Index (HI) Product



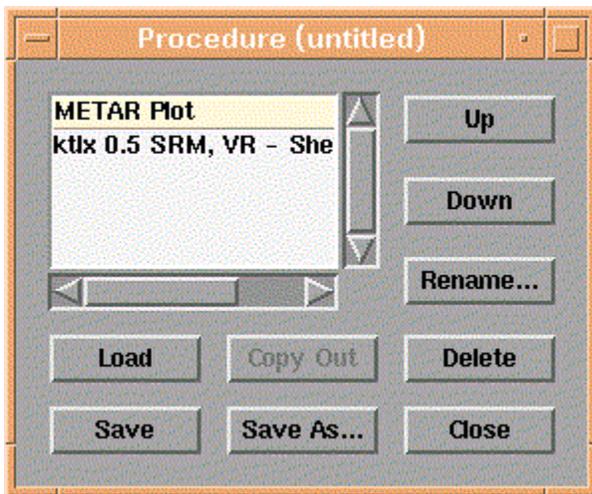
Procedures Cascading Menu



Procedure Dialog Box



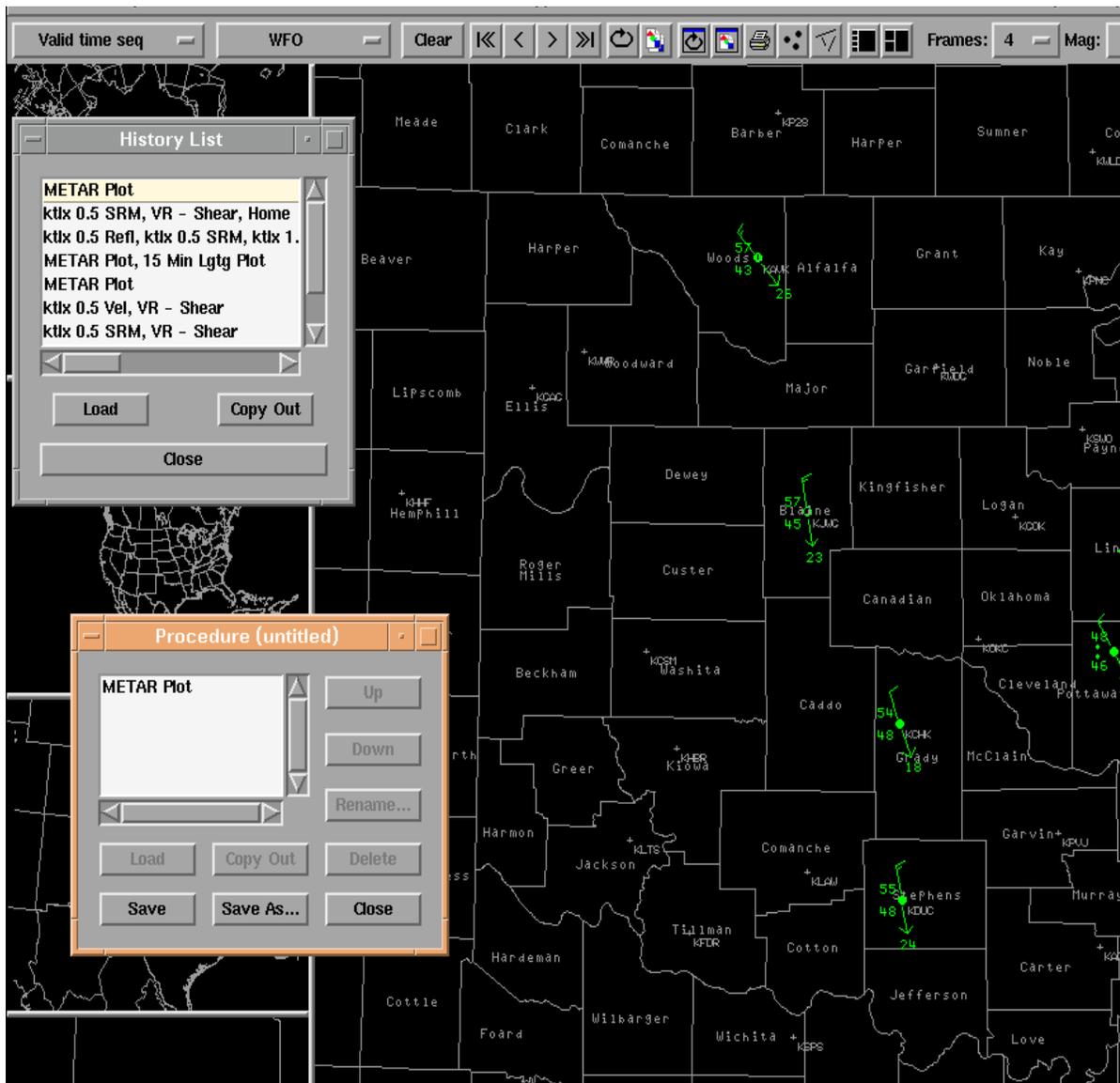
Fill Procedures Dialog Box



Buttons in the Procedures Dialog Box



History List Box



“Copy Out” button

Dedicated - One Time Request

Repeat count: 1 RPG: KBMX

Product: Reflectivity (Z)

Priority: Low

Request Interval: 1

Elevation: 0.5

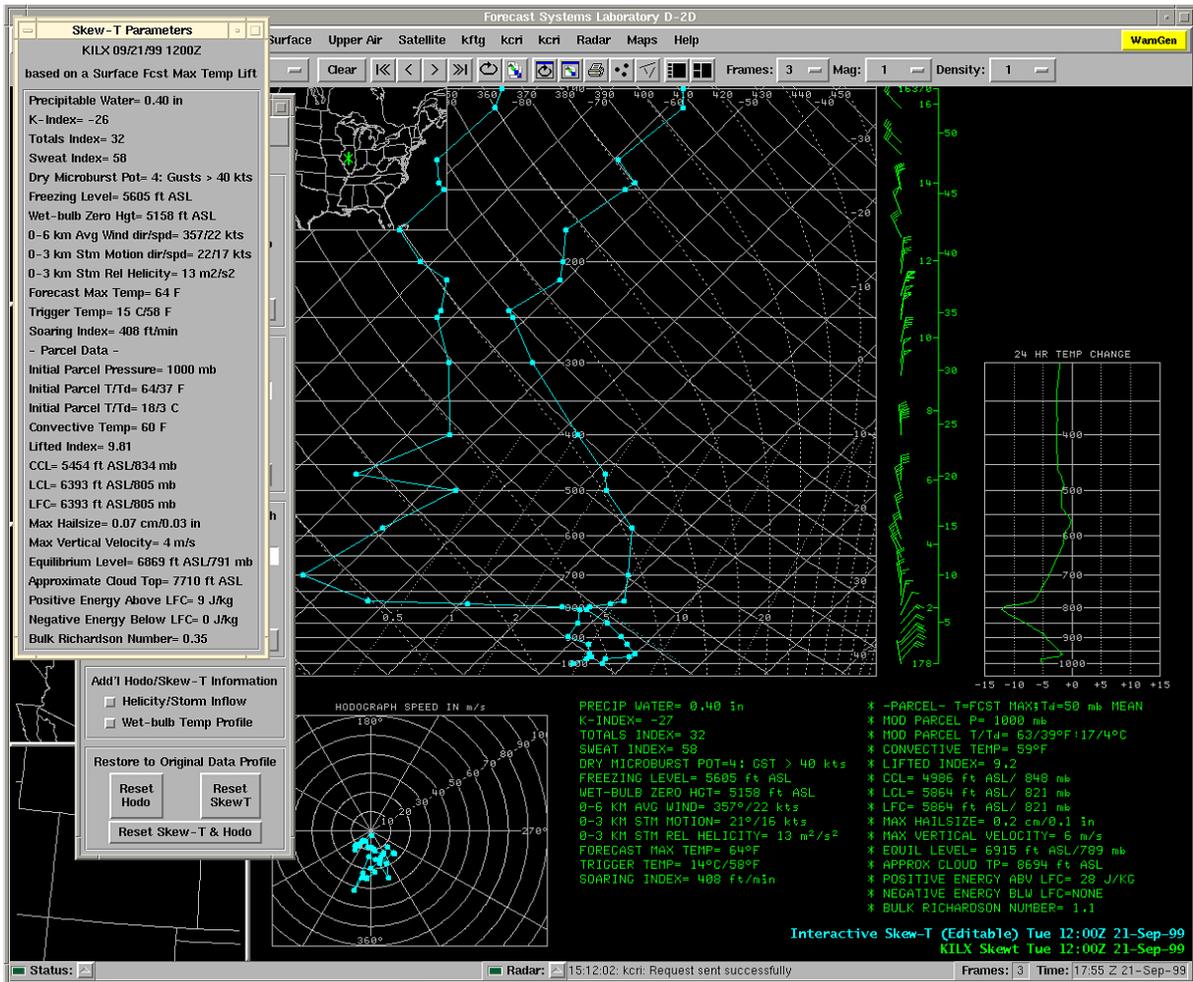
Data levels: 16

Resolution: 1

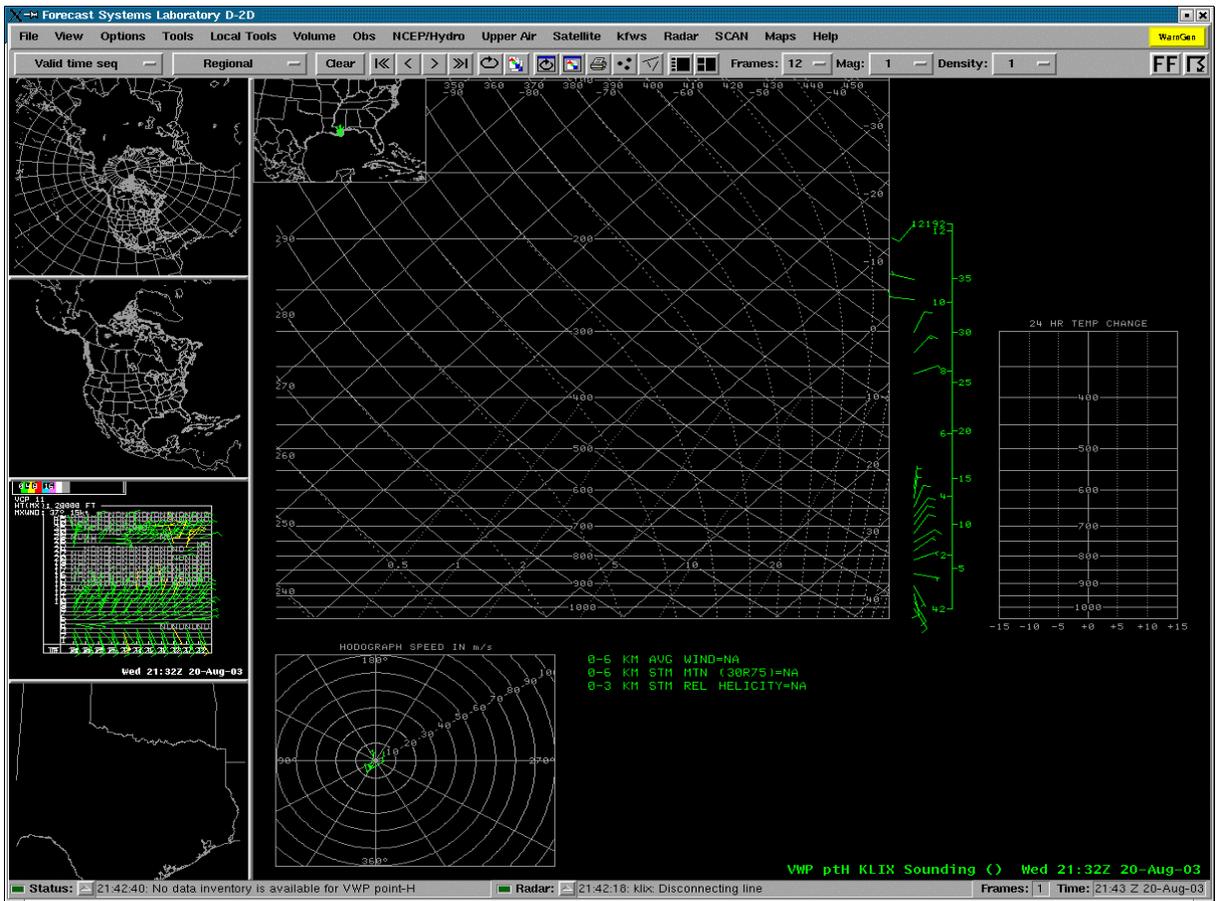
Time: Current Latest Selected

Selected time: Current

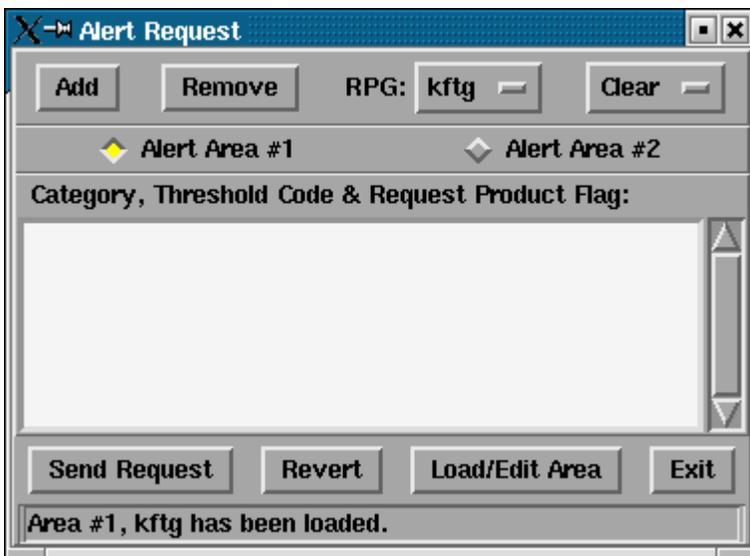
Dedicated-One time Request Dialog Box



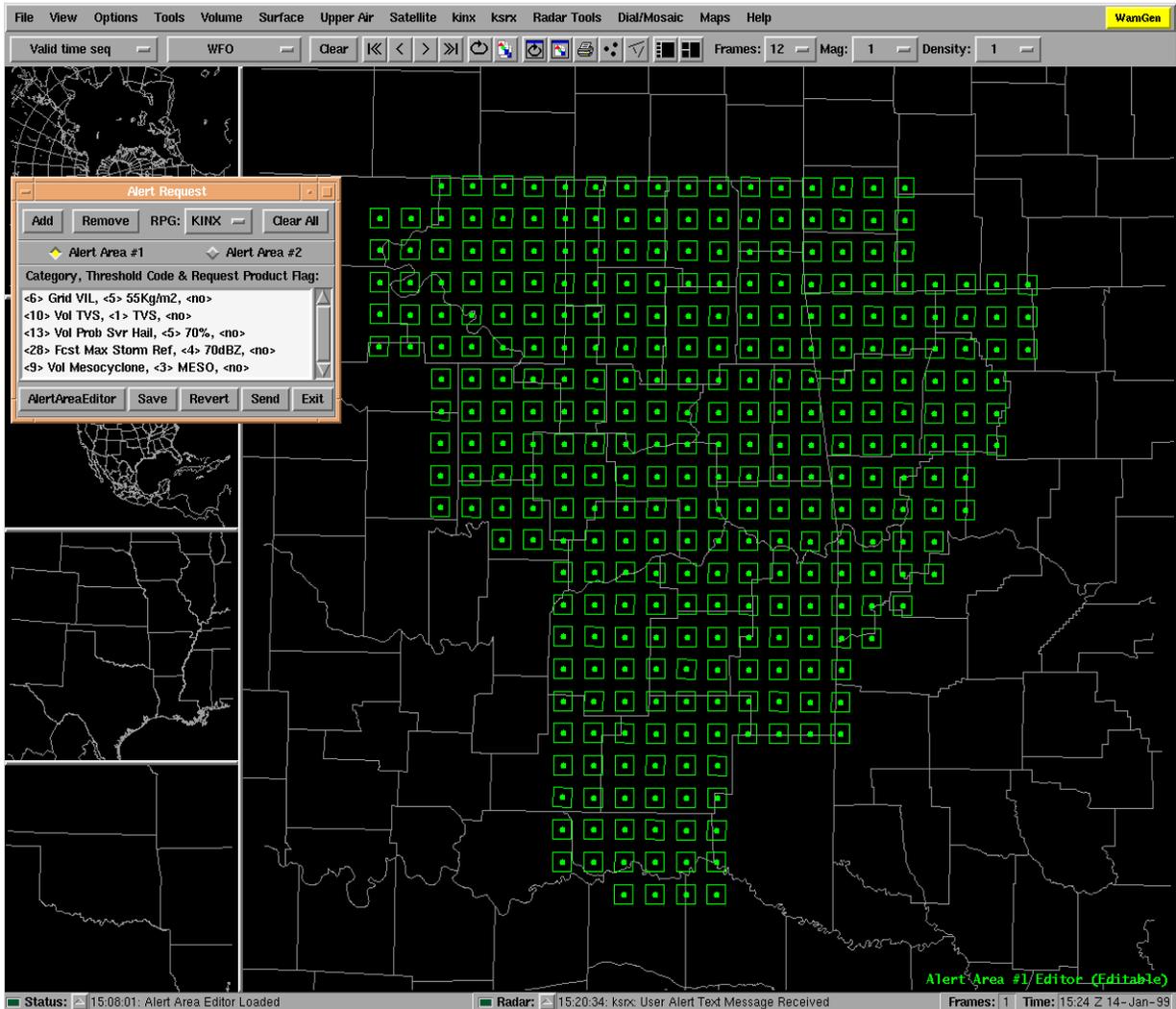
Interactive Skew-T



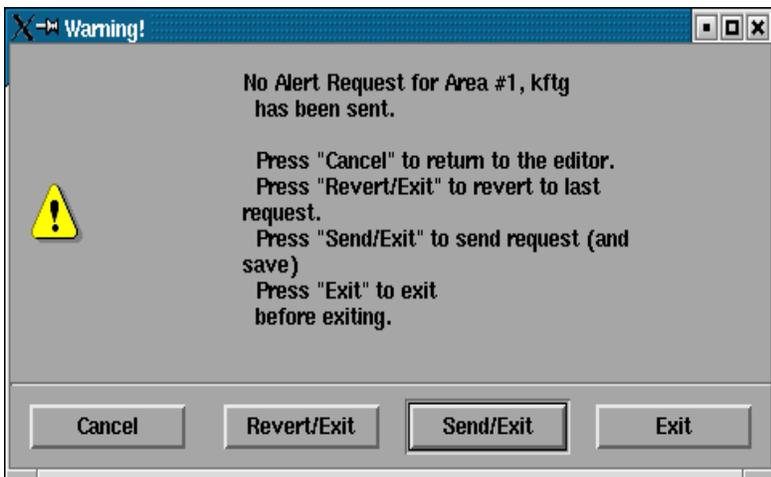
Vertical Sounding and Hodograph Format



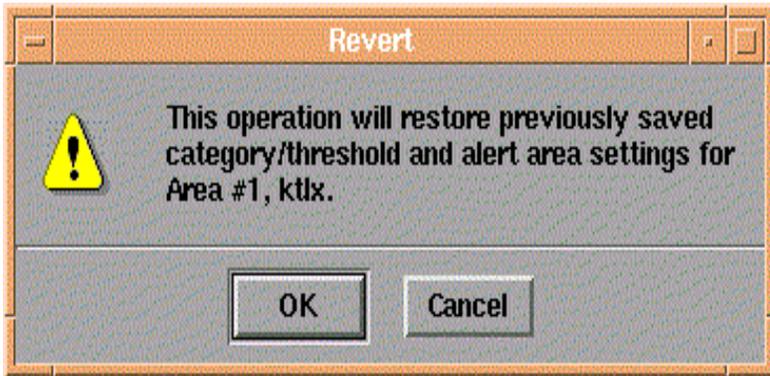
Alert Request Dialog Box



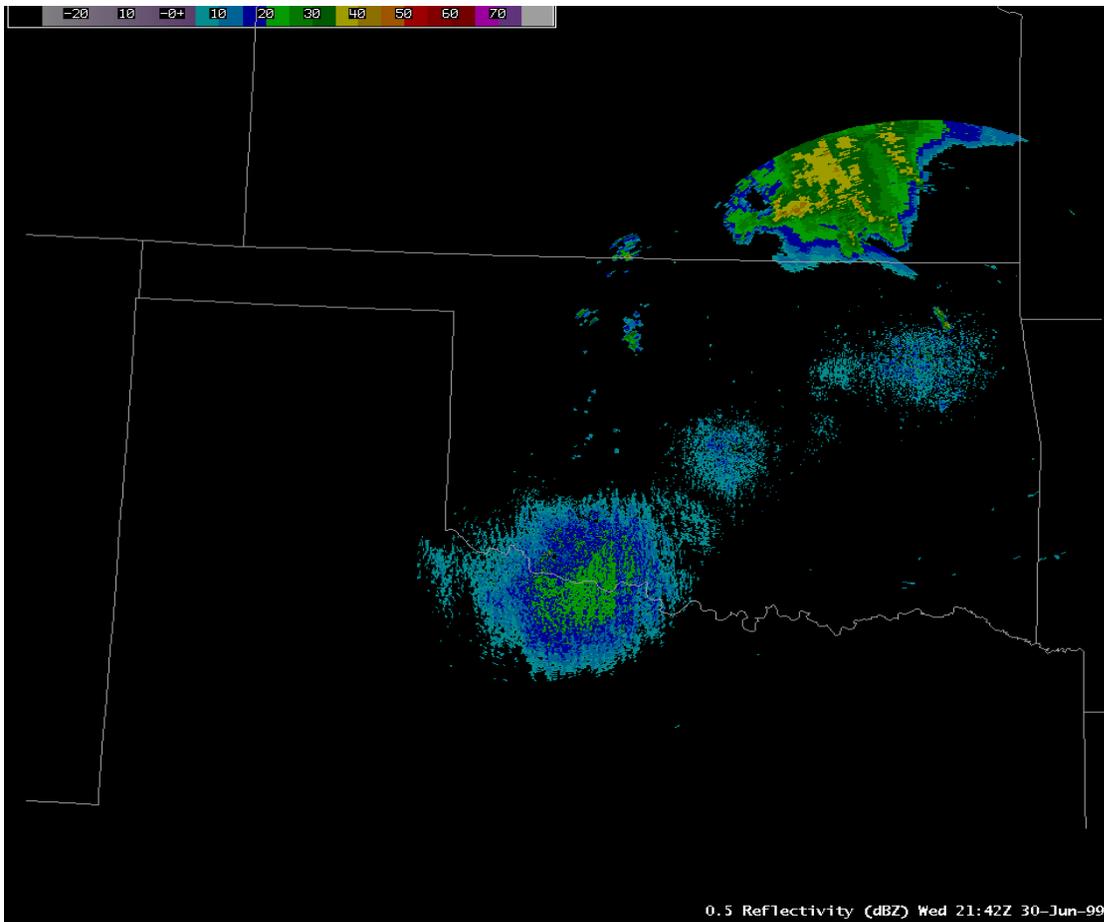
Alert Area



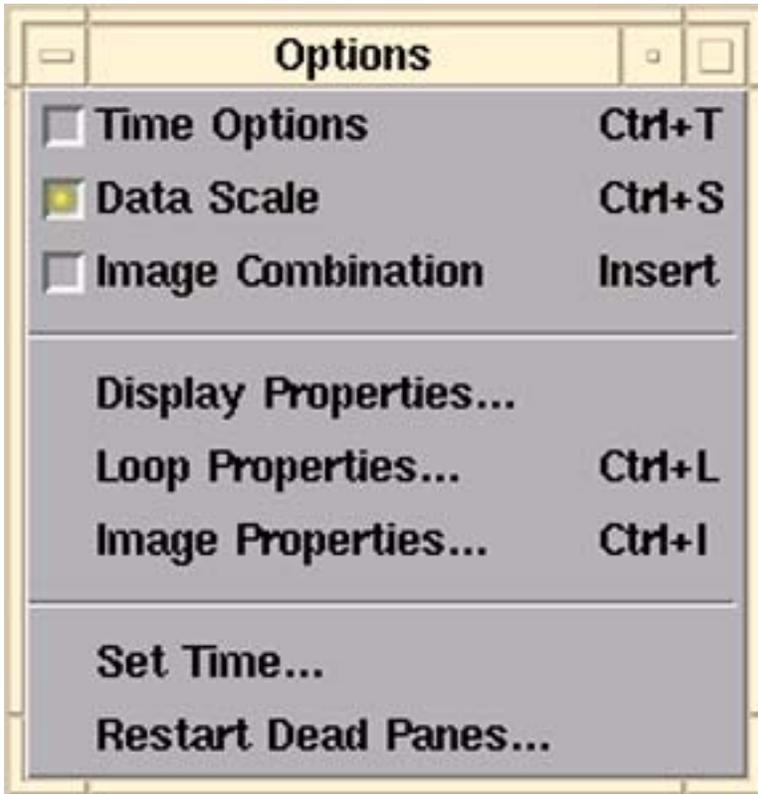
Warning Window



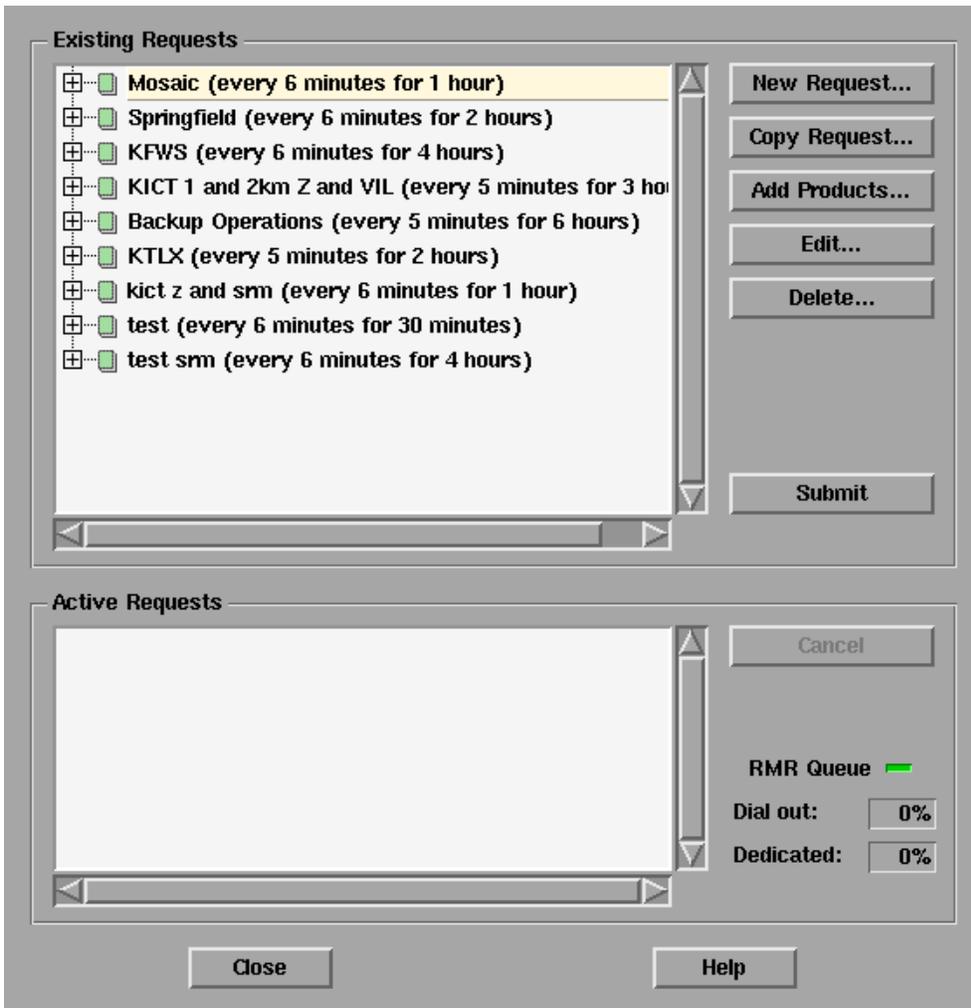
Revert Warning Dialog Box



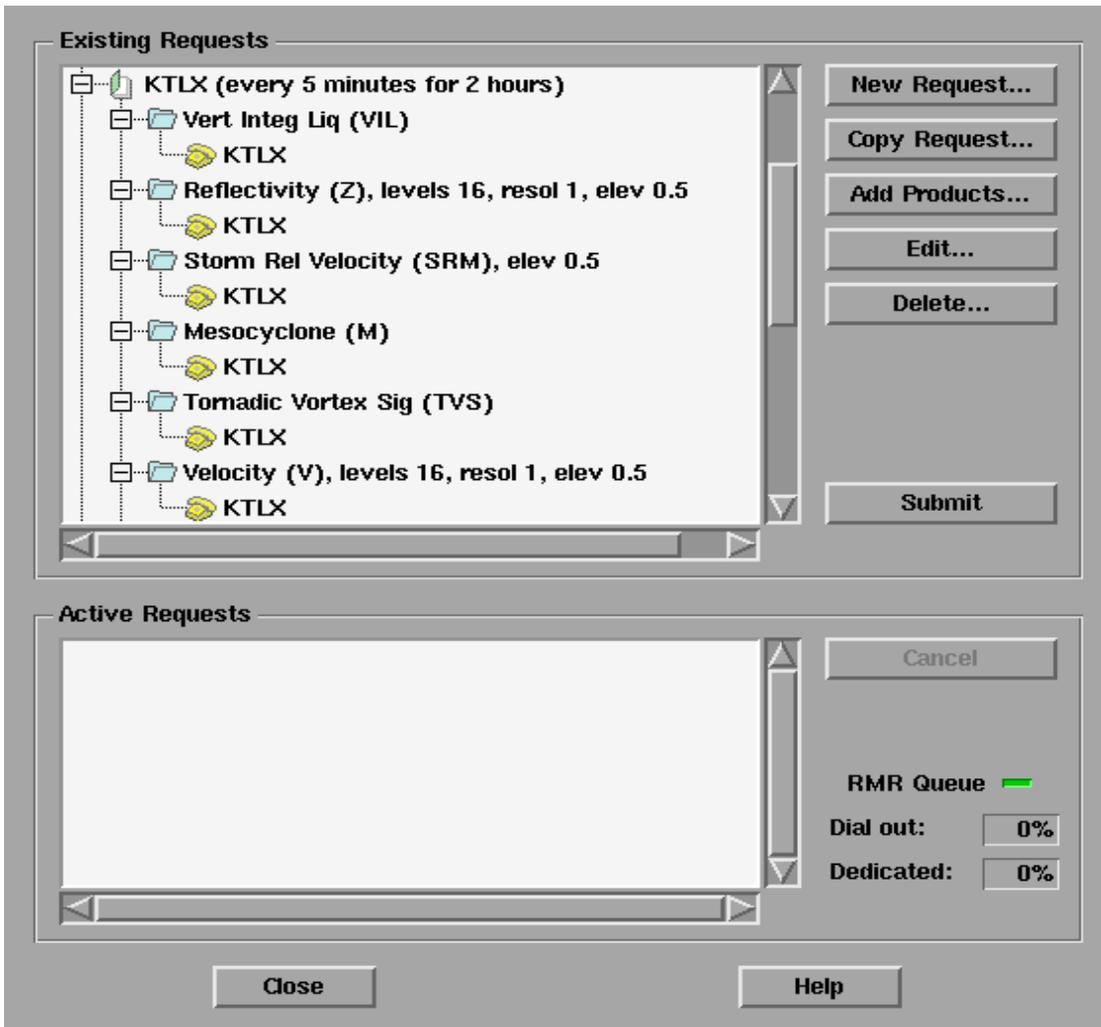
Base Reflectivity (Z)



Data Scale Option



Recurring Multiple Request



Existing Requests

Netscape: File Edit View Go Window Help

AWIPS Data Monitor

Aug 11, 16:33:08 2000

asIf	State
Radar Data	✓
Point Data	✓
Grid Data	✓
Sat Data	✓
Local Data	✓
Graphic Data	✗
DiskUsage Data	↓

AWIPS General Information Page

Click [here](#) to get the Build 4.1 User Guide.

LDAD Monitor V1.0

Friday, 11 August 2000 16:35:04 GMT

Function	R	Y	B	G
✗ External Process and System	2			12
✓ Internal Process and System				16
? Data Acquisition				
✗ Data Dissemination	2			1

INGEST PROCESSES

 Click on the button to display CPU Usage for the System. The current state of CPU usage is ✓

	AS1 Aug 11, 16:35 2000	AS2 Aug 11, 16:35 2000	DS Aug 11, 16:35 2000
 Grid			✓
 Text	✓	✓	✓
 Radar	✓		✓
 Satellite			✓
 DiskUsage	✓		✓

Document: Done.

Netscape Monitor



on time



more than 12 minutes old



more than 24 minutes old



no files are present

Dataset	Source	Disk directory \$FXA_DATA...	Notes
radar	WSR-88D	radar/[RPG]/*	

State of Data Sets

File Edit View Go Window Help

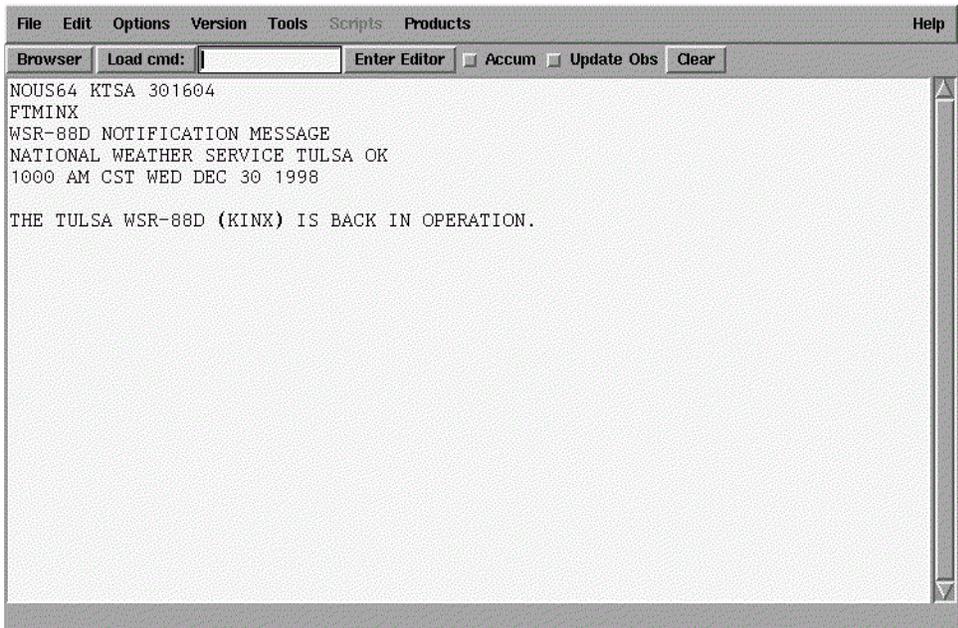
Tulsa Maps Radar Tools SCAN

Radar Data on as1-tsa

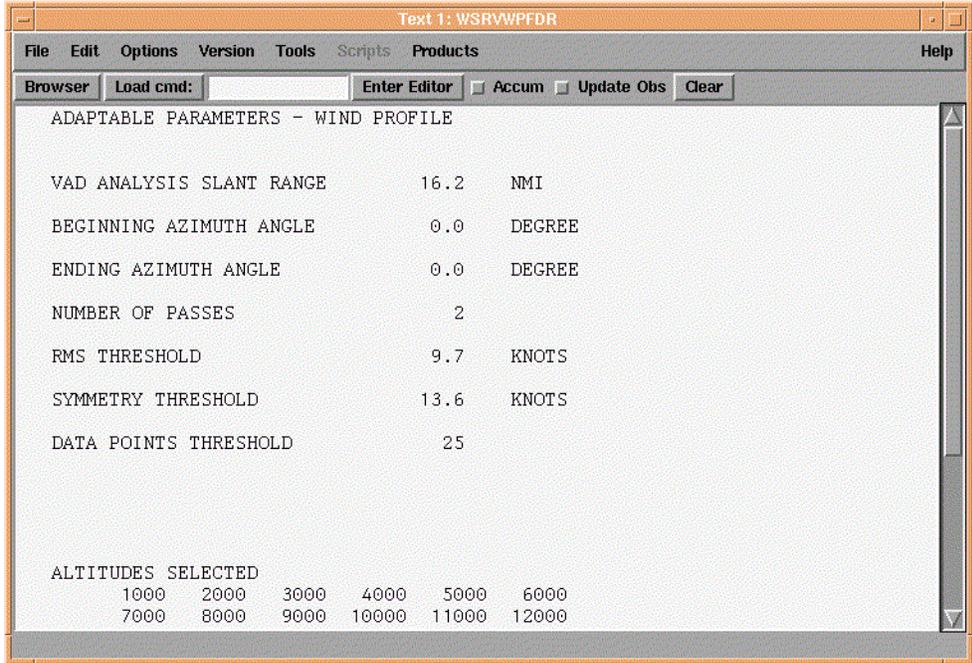
Tue May 25 04:06:10 GMT 1999

State	Last Update	Description	Info
	1999/05/25 04:01:43	KINX Base Reflectivity (Z) elev0_5 res2	
	1999/05/25 04:02:00	KSRX Base Reflectivity (Z) elev0_5 res2	

Most Current Products



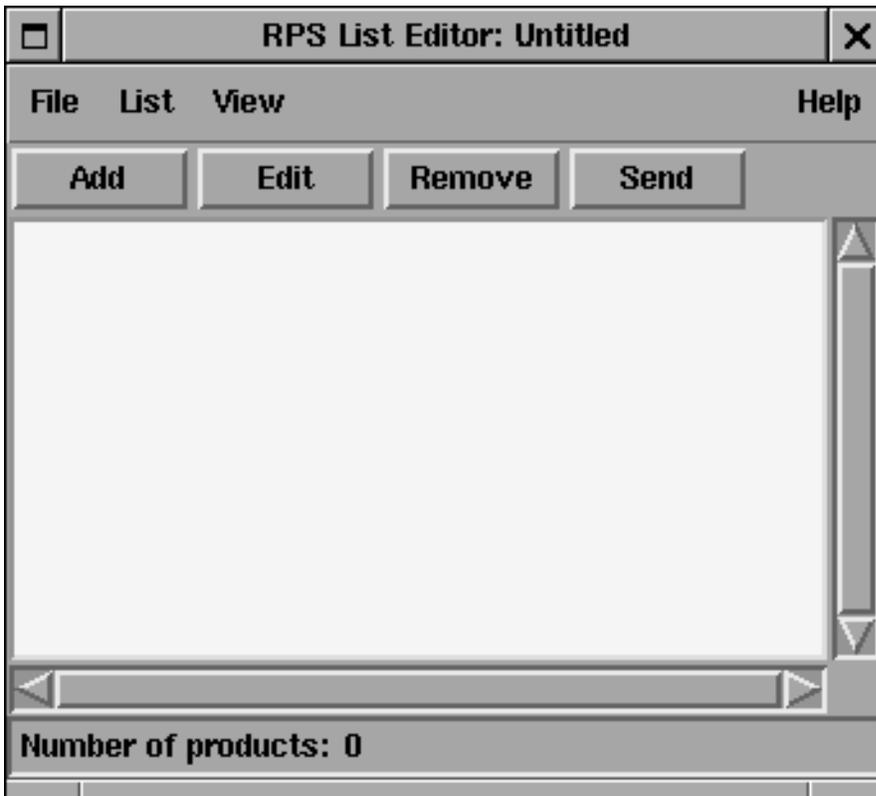
Free Text Message (FTM)



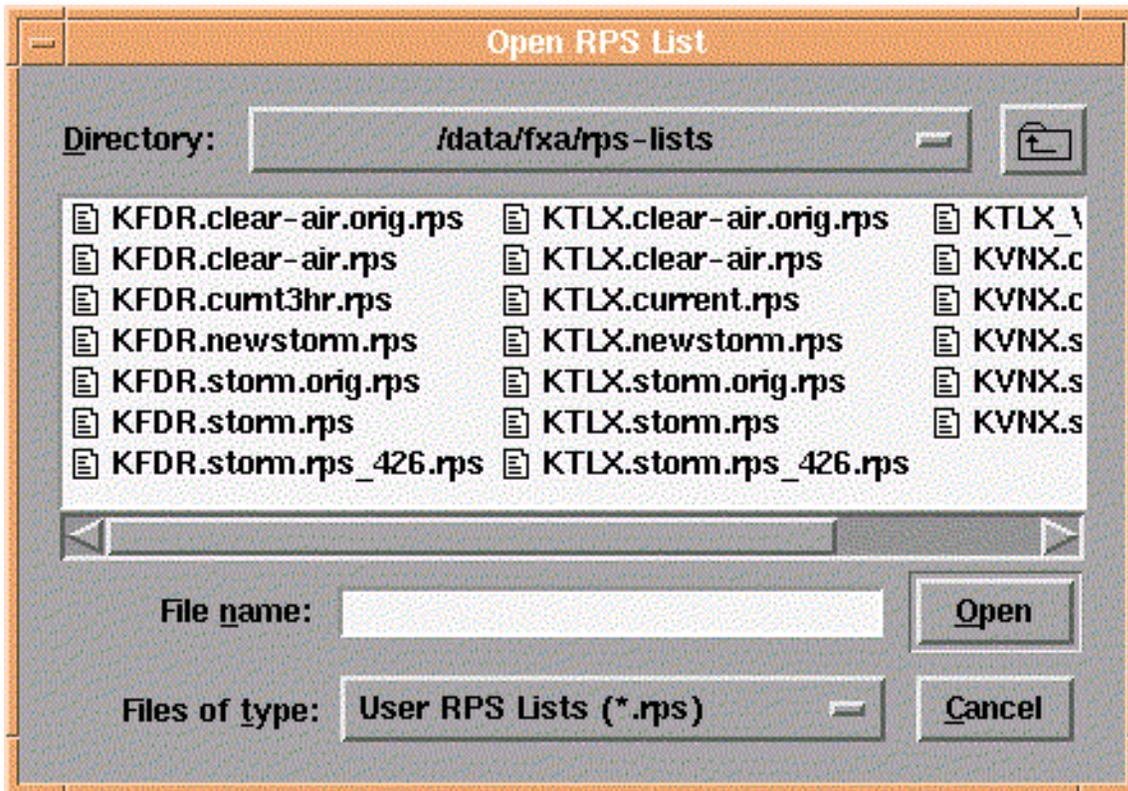
Text Display Window

STORM POSITION/FORECAST							
RADAR ID 557		DATE/TIME 09:30:98/15:09:44		NUMBER OF STORM CELLS 22			
AVG SPEED 31 KTS		AVG DIRECTION 272 DEG					
STORM ID	CURRENT AZRAN (DEG/NM)	POSITION MOVEMENT (DEG/KTS)	15 MIN (DEG/NM)	30 MIN (DEG/NM)	45 MIN (DEG/NM)	60 MIN (DEG/NM)	ERROR FCST/MEAN (NM)
Z4	55/134	278/ 32	57/140	59/146	61/152	63/158	0.4/ 1.0
U5	338/ 87	275/ 38	344/ 83	350/ 80	357/ 78	NO DATA	1.1/ 1.3
A8	328/ 98	NEW	NO DATA	NO DATA	NO DATA	NO DATA	0.0/ 0.0
J8	324/102	NEW	NO DATA	NO DATA	NO DATA	NO DATA	0.0/ 0.0
A5	329/ 63	256/ 37	338/ 61	346/ 60	355/ 61	4/ 63	0.9/ 1.2
W7	326/105	NEW	NO DATA	NO DATA	NO DATA	NO DATA	0.0/ 0.0
O7	32/ 72	258/ 29	36/ 77	39/ 82	42/ 88	45/ 94	0.2/ 1.4
STORM POSITION/FORECAST							
RADAR ID 557		DATE/TIME 09:30:98/15:09:44		NUMBER OF STORM CELLS 22			
STORM ID	CURRENT AZRAN (DEG/NM)	POSITION MOVEMENT (DEG/KTS)	15 MIN (DEG/NM)	30 MIN (DEG/NM)	45 MIN (DEG/NM)	60 MIN (DEG/NM)	ERROR FCST/MEAN (NM)
C3	336/ 75	265/ 32	342/ 72	348/ 71	355/ 70	1/ 71	0.7/ 0.5
Q5	337/ 67	259/ 35	345/ 66	NO DATA	NO DATA	NO DATA	2.6/ 2.3
X5	346/ 92	263/ 18	349/ 91	NO DATA	NO DATA	NO DATA	3.0/ 3.4
G8	350/ 80	261/ 25	354/ 80	359/ 81	3/ 82	7/ 84	0.7/ 0.7
Y7	349/ 72	265/ 35	356/ 72	3/ 73	10/ 74	NO DATA	1.2/ 1.4
M8	341/ 68	NEW	NO DATA	NO DATA	NO DATA	NO DATA	0.0/ 0.0
S6	344/ 74	NEW	NO DATA	NO DATA	NO DATA	NO DATA	0.0/ 0.0
J7	333/ 50	324/ 46	336/ 38	NO DATA	NO DATA	NO DATA	3.8/ 3.8
O8	345/ 78	NEW	NO DATA	NO DATA	NO DATA	NO DATA	0.0/ 0.0
STORM POSITION/FORECAST							
RADAR ID 557		DATE/TIME 09:30:98/15:09:44		NUMBER OF STORM CELLS 22			
STORM ID	CURRENT AZRAN (DEG/NM)	POSITION MOVEMENT (DEG/KTS)	15 MIN (DEG/NM)	30 MIN (DEG/NM)	45 MIN (DEG/NM)	60 MIN (DEG/NM)	ERROR FCST/MEAN (NM)
X7	1/ 61	241/ 32	7/ 65	12/ 70	NO DATA	NO DATA	1.4/ 1.4
H8	6/ 66	NEW	NO DATA	NO DATA	NO DATA	NO DATA	0.0/ 0.0
B8	344/ 53	284/ 52	358/ 48	NO DATA	NO DATA	NO DATA	2.3/ 2.3
H7	360/ 79	275/ 22	4/ 78	NO DATA	NO DATA	NO DATA	2.9/ 1.5
K8	354/ 51	NEW	NO DATA	NO DATA	NO DATA	NO DATA	0.0/ 0.0
Q8	107/ 7	NEW	NO DATA	NO DATA	NO DATA	NO DATA	0.0/ 0.0
STORM CELL TRACKING/FORECAST ADAPTATION DATA							
293	(DEG) DEFAULT	(DIRECTION)	2.5	(M/S) THRESH	(MINIMUM SPEED)		
16.0	(KTS) DEFAULT	(SPEED)	20	(KM) ALLOWABLE	ERROR		
20	(MIN) TIME	(MAXIMUM)	15	(MIN) FORECAST	INTERVAL		
10	NUMBER OF PAST VOLUMES		4	NUMBER OF INTERVALS			
30.0	(M/S) CORRELATION	SPEED	15	(MIN) ERROR	INTERVAL		

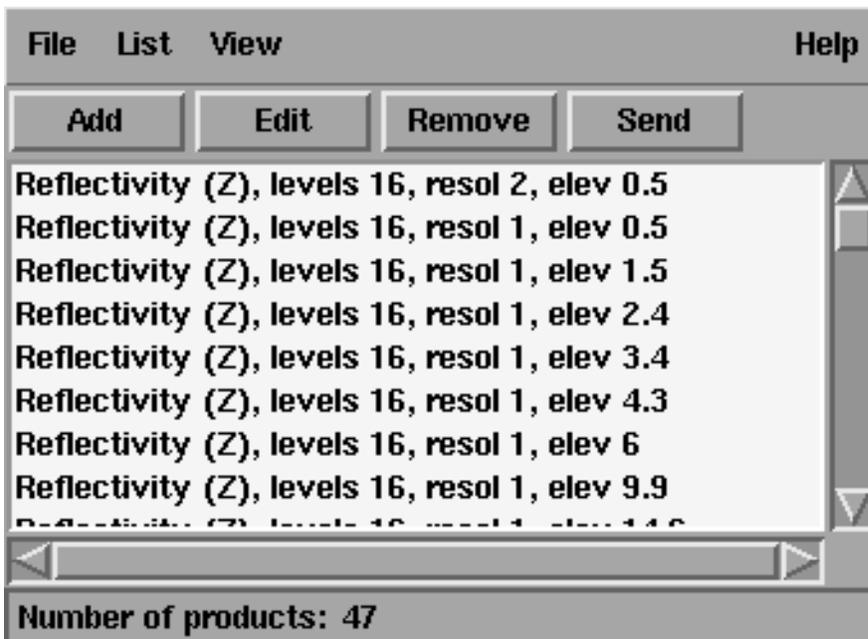
STI (Storm Track Information) Alphanumeric



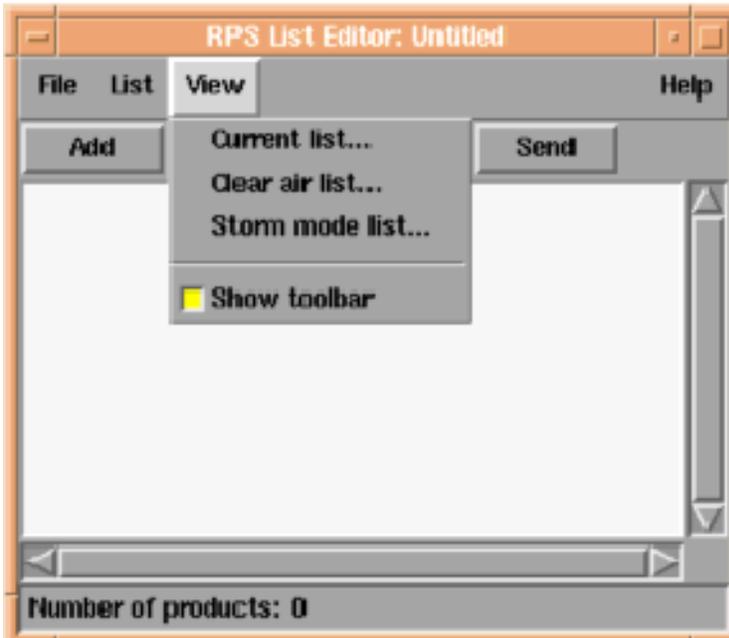
RPS Dialog Box



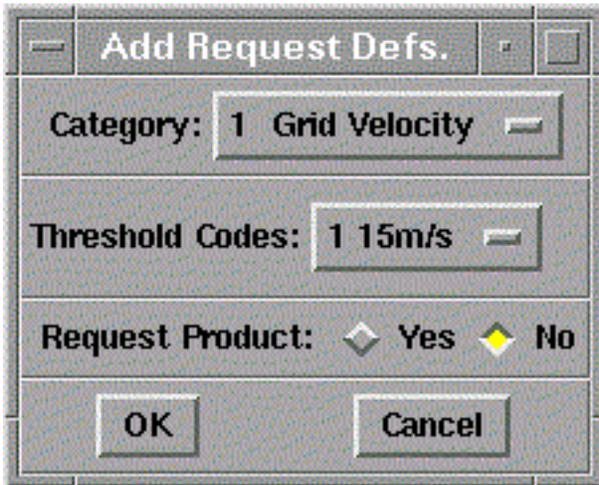
Current RPS Lists



RPS Editor Box



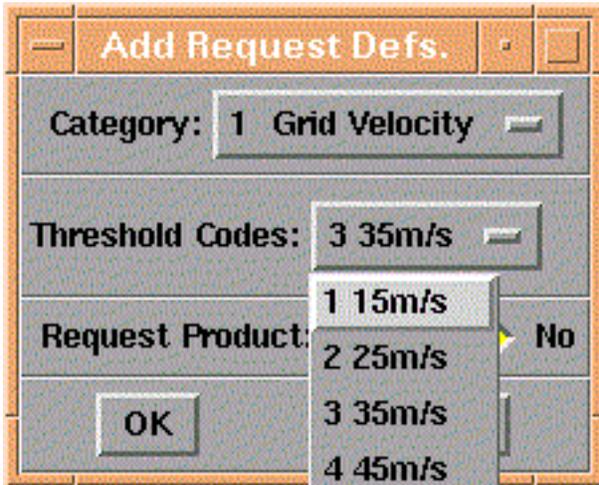
RPS Drop Down Menu



Add Request Definitions Dialog Box



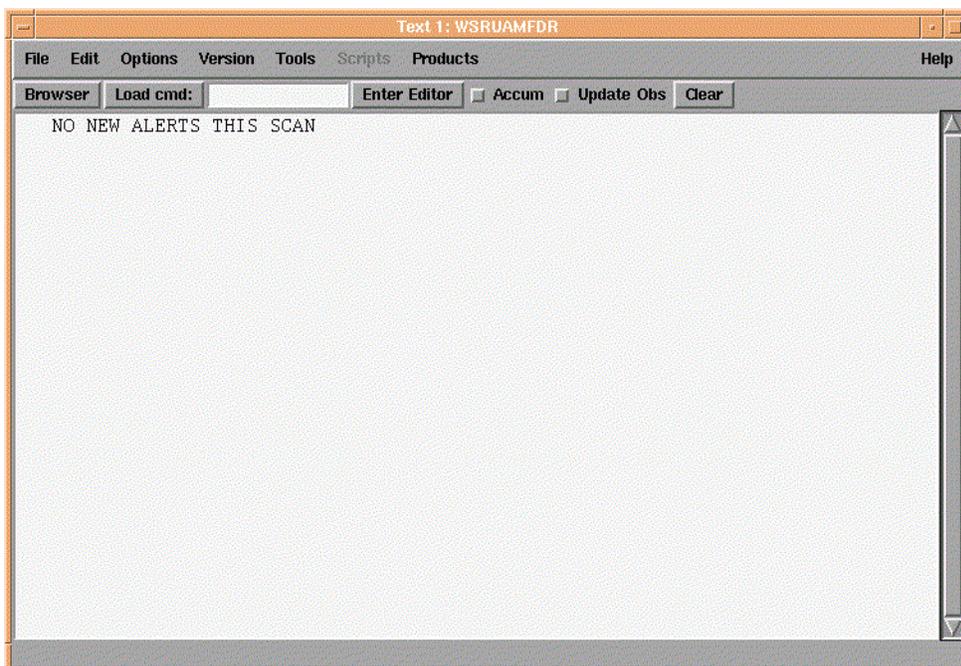
Category Codes



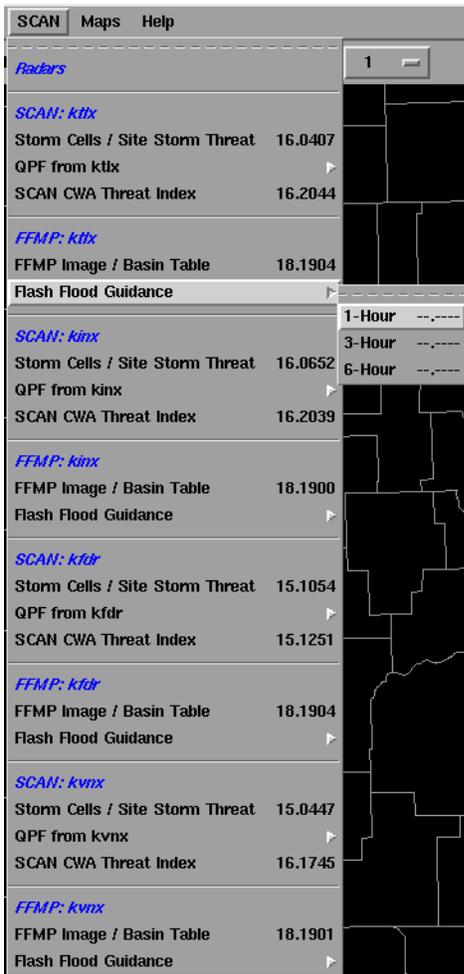
Threshold Codes Option Menu



Alert Request List



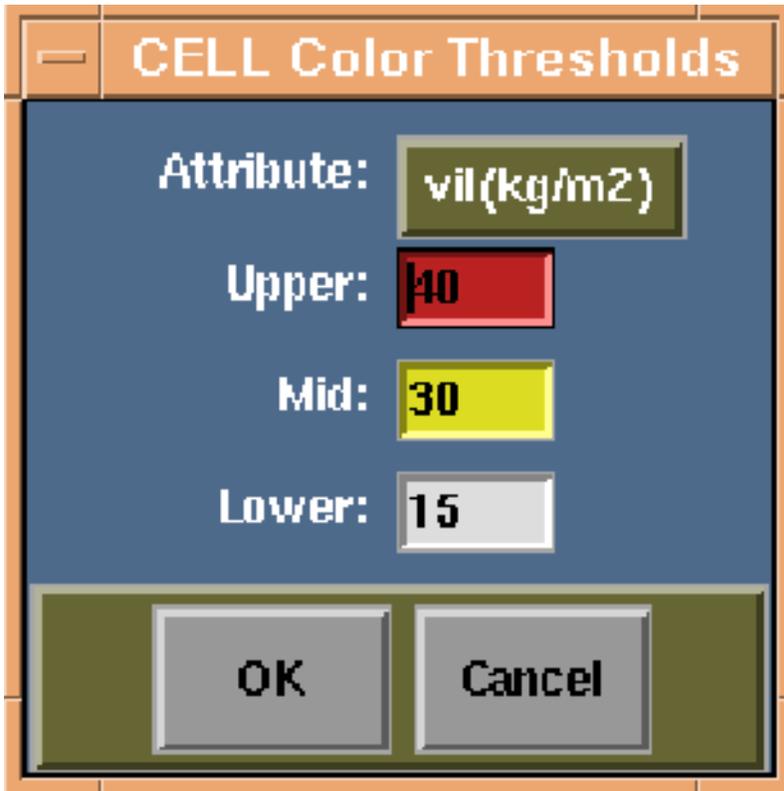
Text Browser



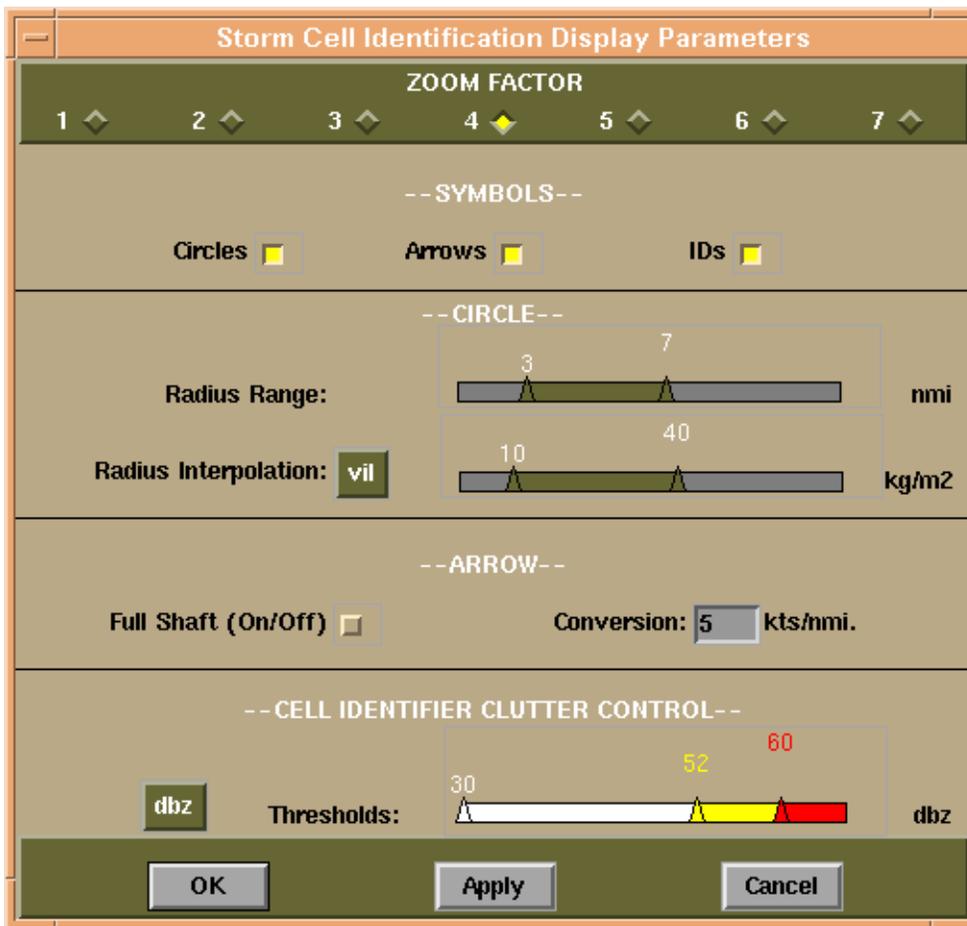
SCAN Submenu

KTLX CELL Table																					
ident	azm	mg	tvS	meso	posh	poh	hSize	vil	dbz	dbzHt	top	dir	spd	polh	svrwx	hvyPr	pPos	cgRate	cape	sreh	county
D0	302	13	NONE	MESO	70	100	1.25	36	68	15.9	27.4	221	13	37	37	40	7	5.9	1330.1	62.5	OK Oklahoma
T2	115	45	NONE	UNCO	70	100	1.25	45	65	17.2	36.8	196	17	37	37	23	0	2.0	1408.7	122.6	OK Hughes
N0	318	17	NONE	NONE	40	100	0.75	38	61	7.8	35.6	186	12	20	20	40	20	3.0	1373.3	103.6	OK Oklahoma
F9	247	9	NONE	NONE	40	40	0.75	29	66	11.8	18.7	177	24	14	14	40	0	0.6	1296.8	160.5	OK Cleveland
P7	325	18	NONE	NONE	20	90	0.50	18	57	14.6	32.5	149	11	20	20	40	21	2.8	1363.0	126.4	OK Oklahoma
T2	115	45	NONE	UNCO	70	100	1.25	45	65	17.2	36.8	196	17	37	37	23	0	2.0	1408.7	122.6	OK Hughes

SCAN Storm Cell Table



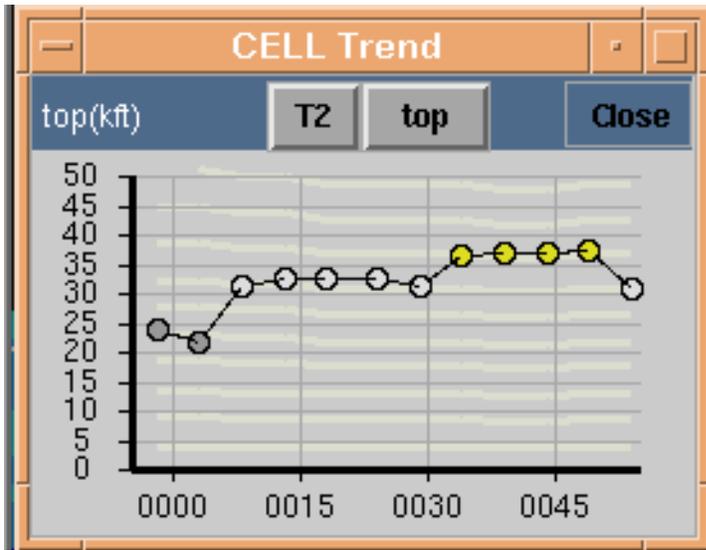
Attribute Color Threshold (ACT) Window



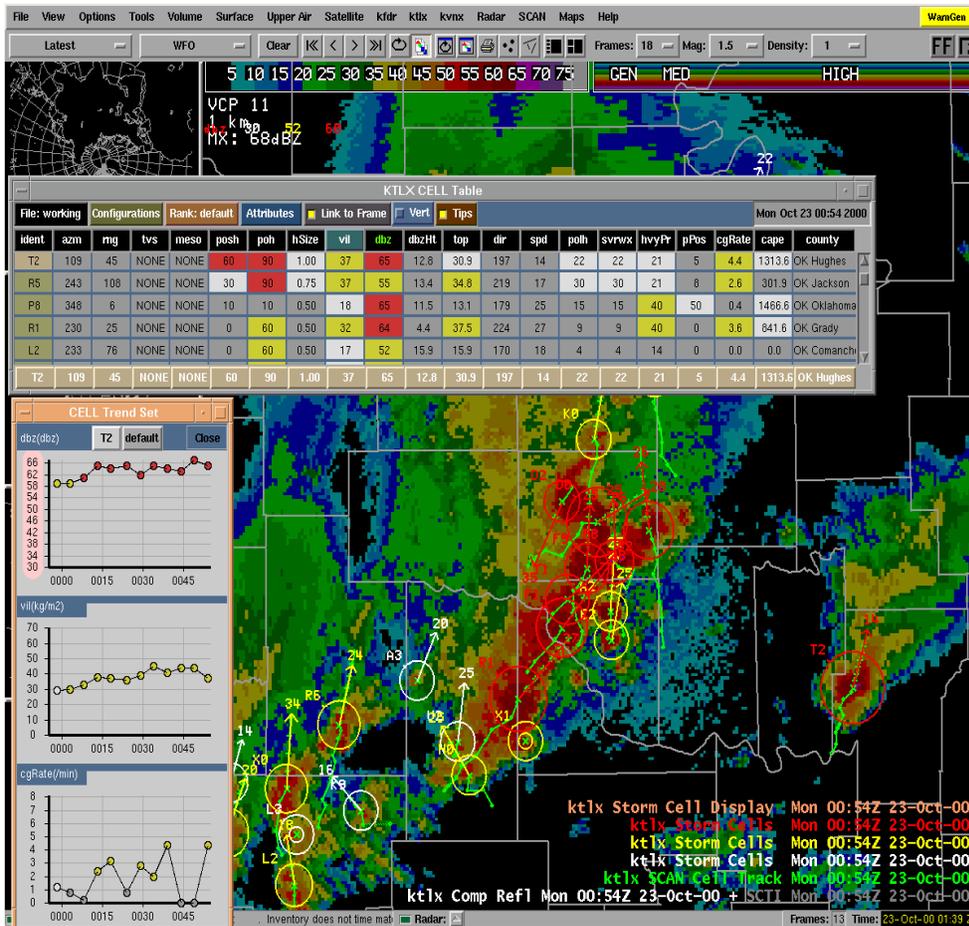
Storm Cell Identification Display (SCID)

stmID	ident	type	base	top	azm	mg	height	dRng	dAzM	shear	county
NO MESO DETECTIONS											

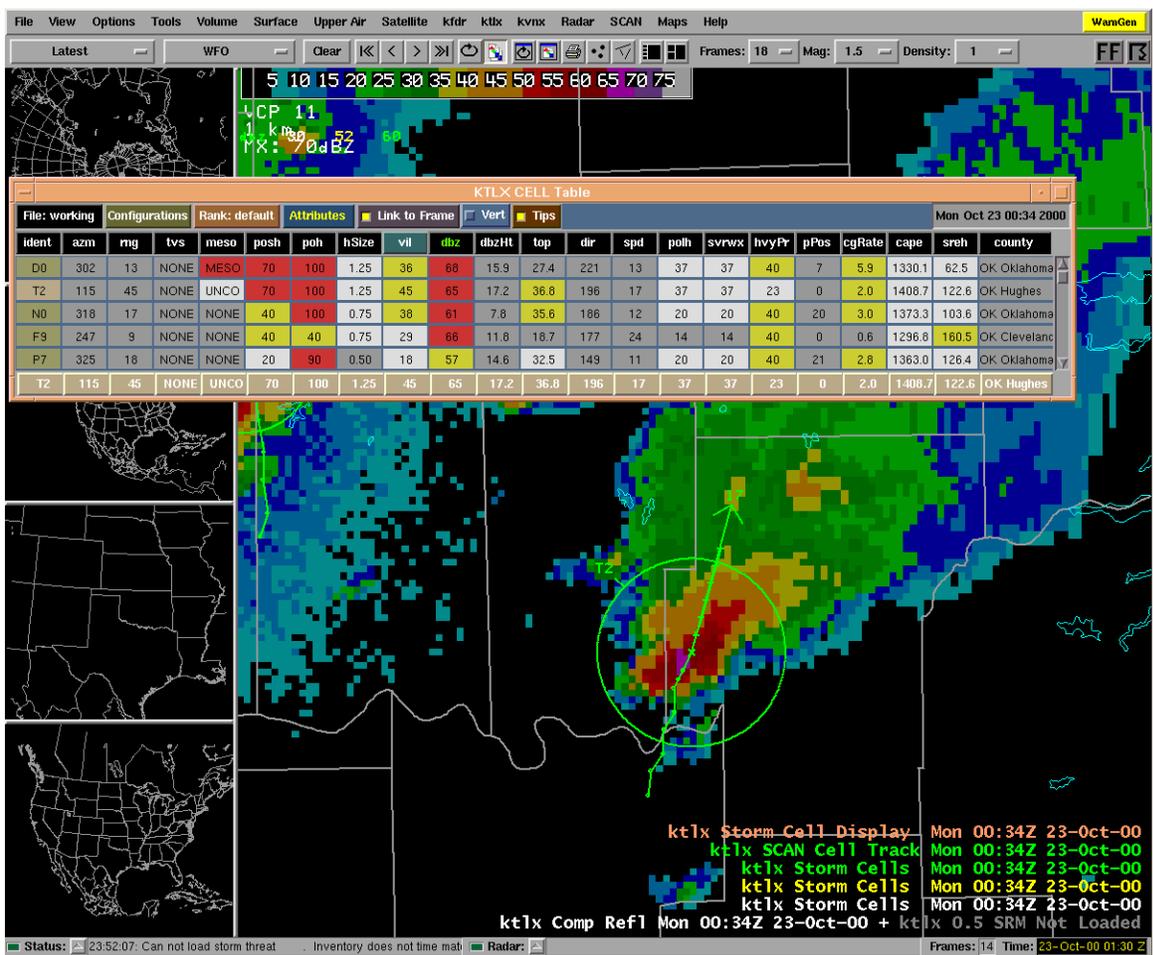
SCAN Mesocyclone Table



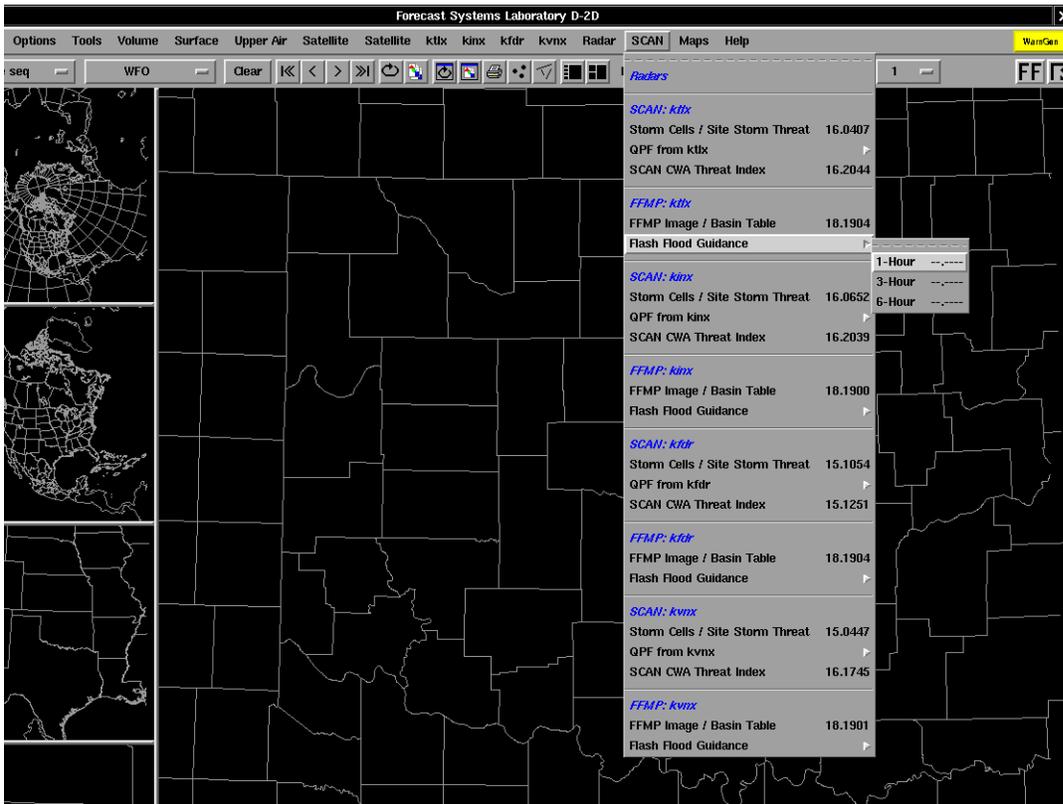
Time Trend



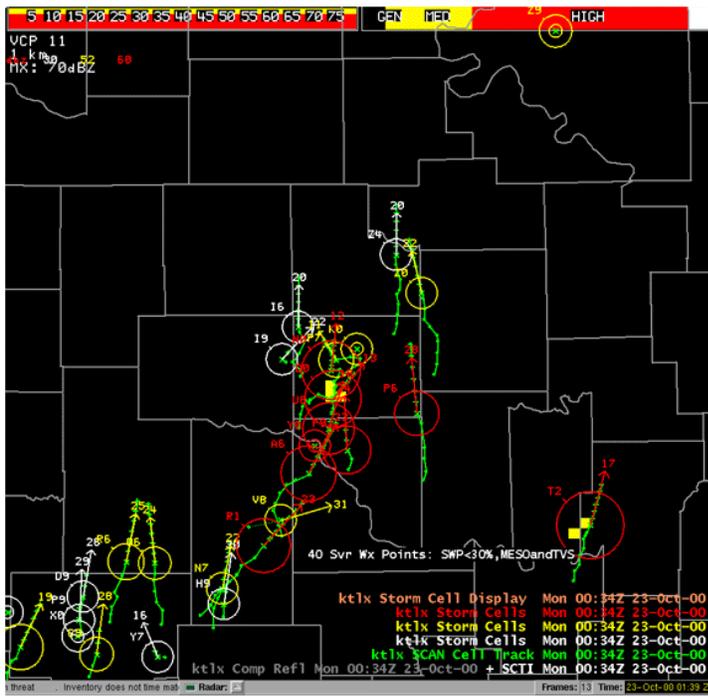
Trend Window



Zoom and Recenter



SCAN Drop Down Menu



4 Km Color-Coded Gridded Product

KTLX CELL Table																
File: working		Configurations			Rank: default		Attributes		Link to Frame		Vert		Tips		Mon Oct 23 00:34 2000	
ident	azm				sh	poh	hSize	vil	dbz	dbzHt	top	cgRate	cape	county		
D0	302	D2D Display ...			0	100	1.25	36	68	15.9	27.4	5.9	1330.1	OK Oklahoma		
T2	115	Alarm Thresholds ...			0	100	1.25	45	85	17.2	36.8	2.0	1408.7	OK Hughes		
N0	318	Trend Sets			0	100	0.75	38	81	7.8	35.6	3.0	1373.3	OK Oklahoma		
F9	247	Alarm Time Setup ...			0	40	0.75	29	86	11.8	18.7	0.6	1296.8	OK Cleveland		
P7	325	18	NONE	NONE	20	90	0.50	18	57	14.6	32.5	2.8	1363.0	OK Oklahoma		
D0	302	13	NONE	MESO	70	100	1.25	36	68	15.9	27.4	5.9	1330.1	OK Oklahoma		

Configurations Pull-Down Menu

CELL Alarm Thresh

Attribute:

Rate of Increase: (dbz)

Bell

Rate of Change Alarm Threshold Window

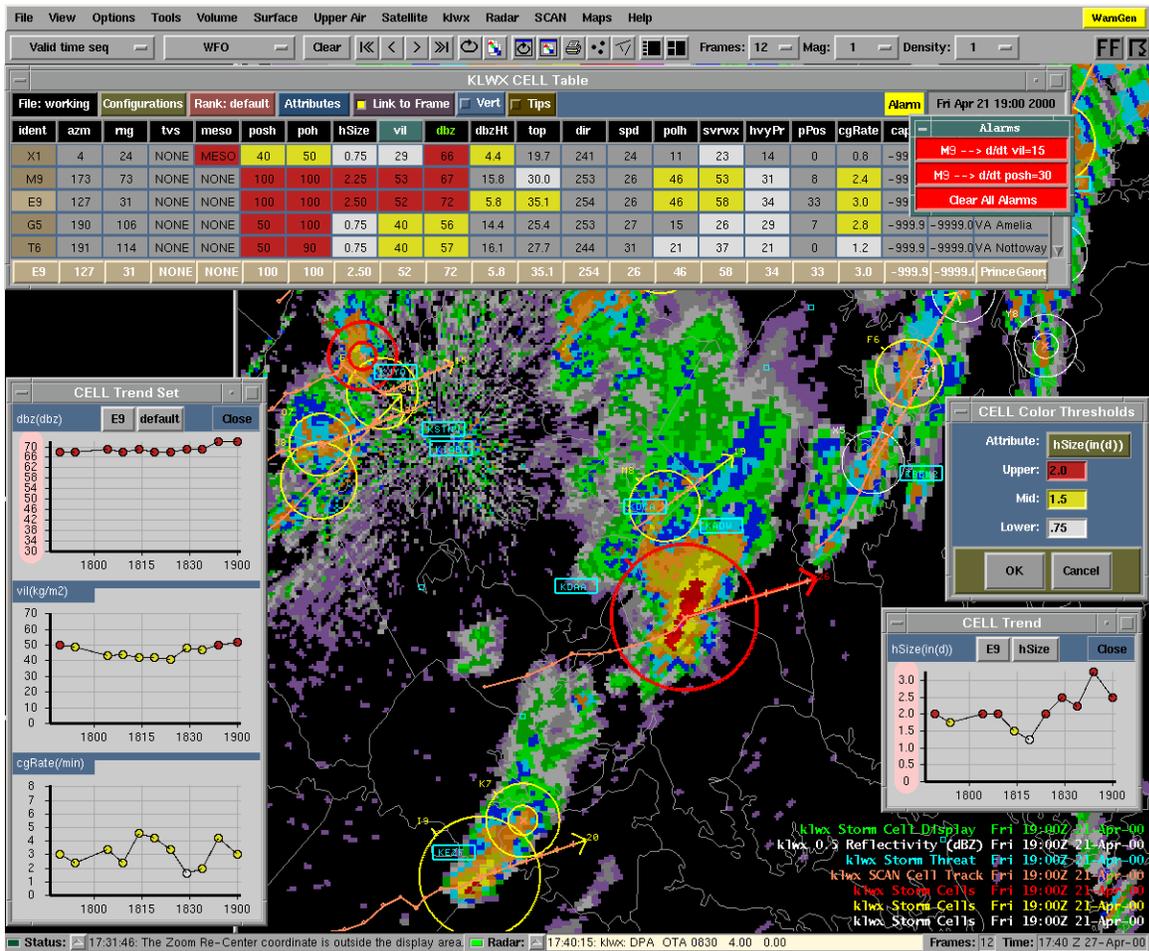
Alarms

M9 --> d/dt vil=15

M9 --> d/dt posh=30

Clear All Alarms

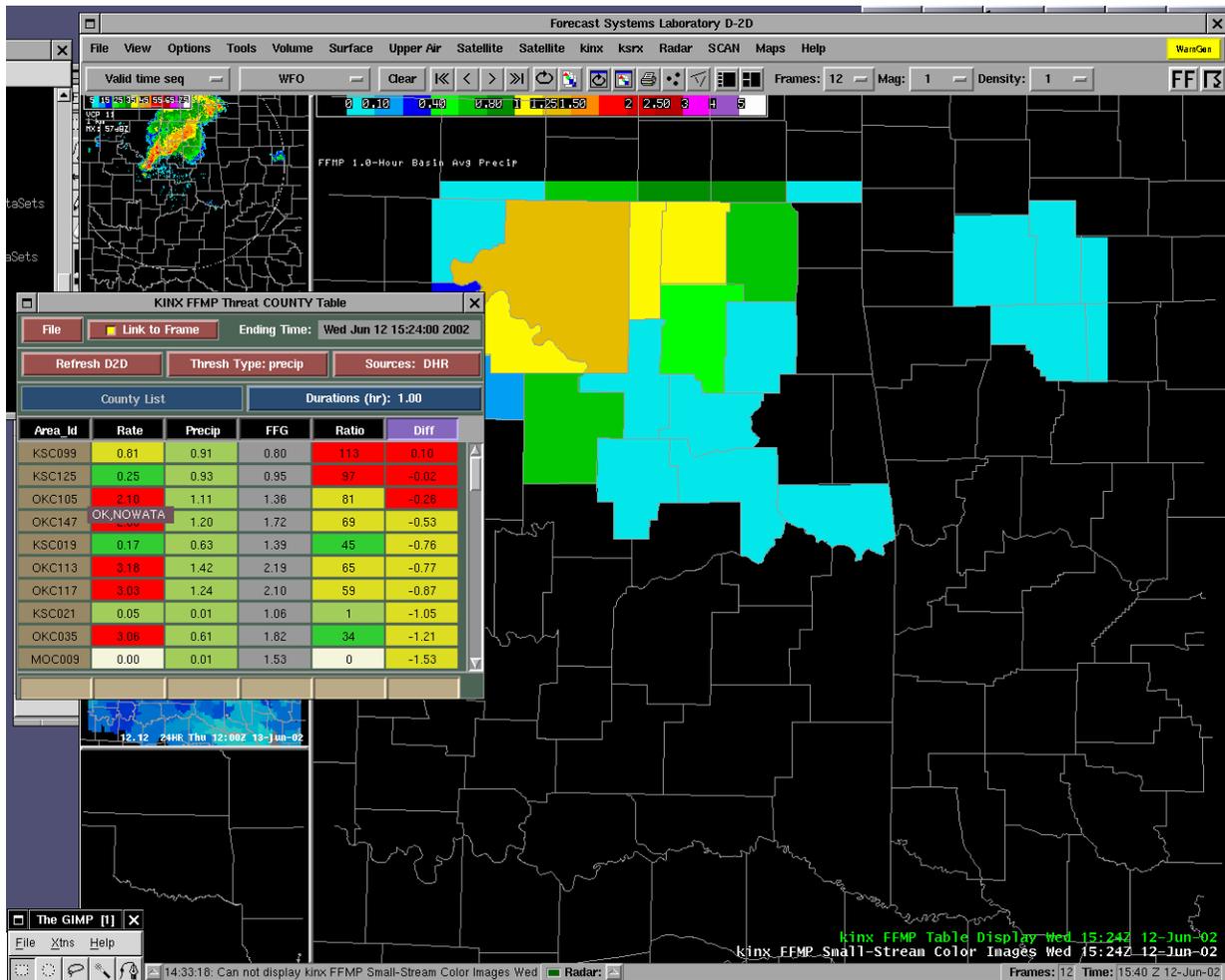
Red Alarm Window



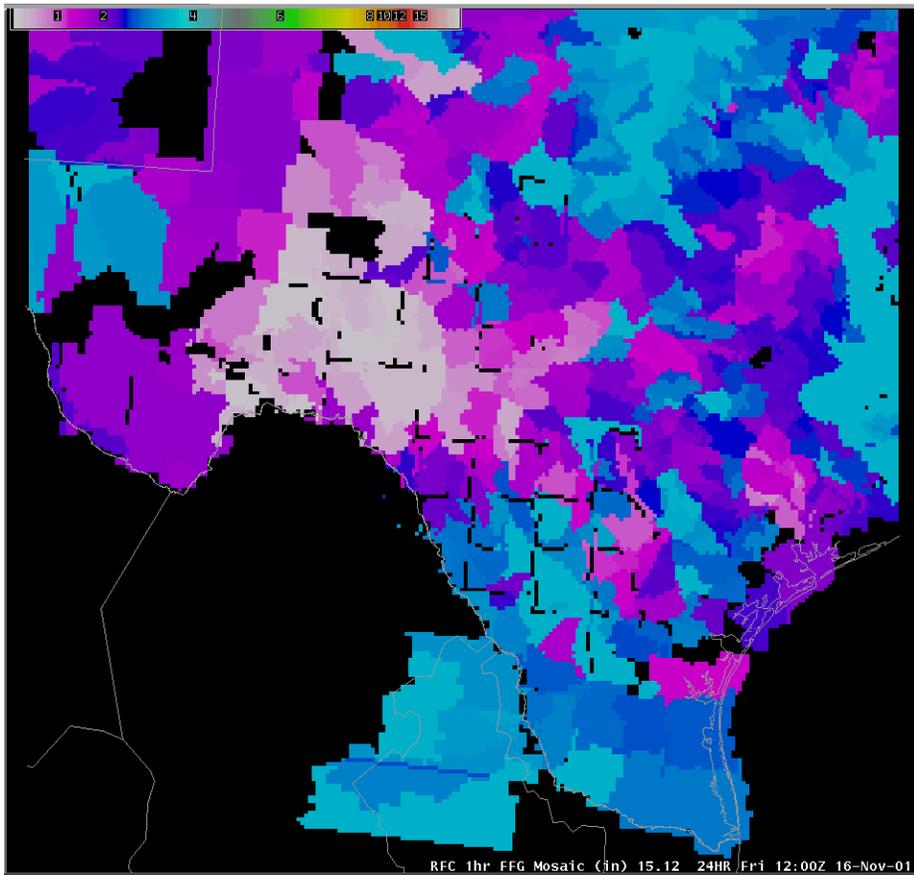
Alarmed Cell Window

The screenshot shows a dialog box titled 'Alarm Time Limits for ktlx'. It contains three rows of input fields for setting alarm time limits: 'Cell: 30 min', 'Meso: 30 min', and 'TVS: 30 min'. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

New Alarm Time Setup Window



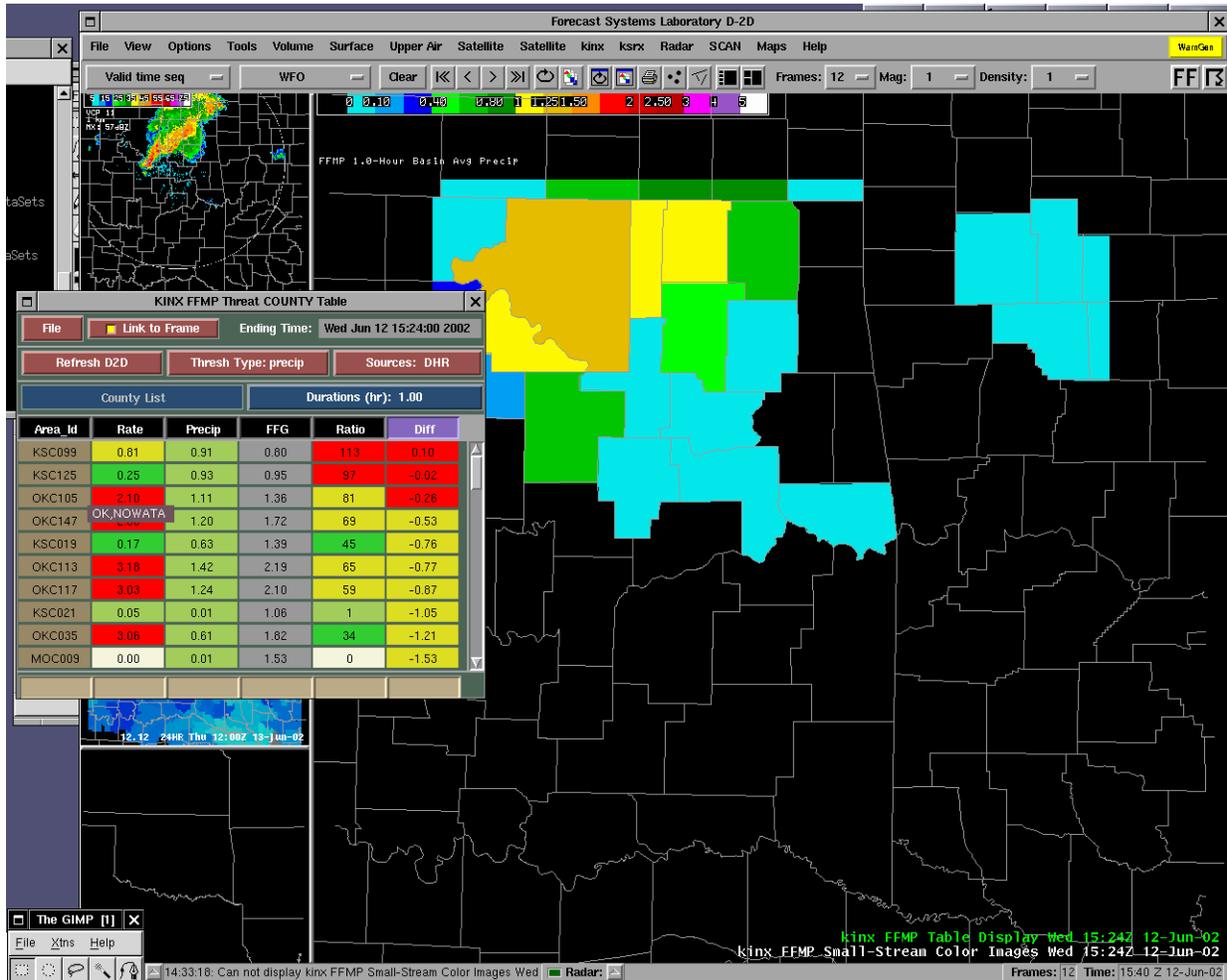
FFMP Image/Basin Table



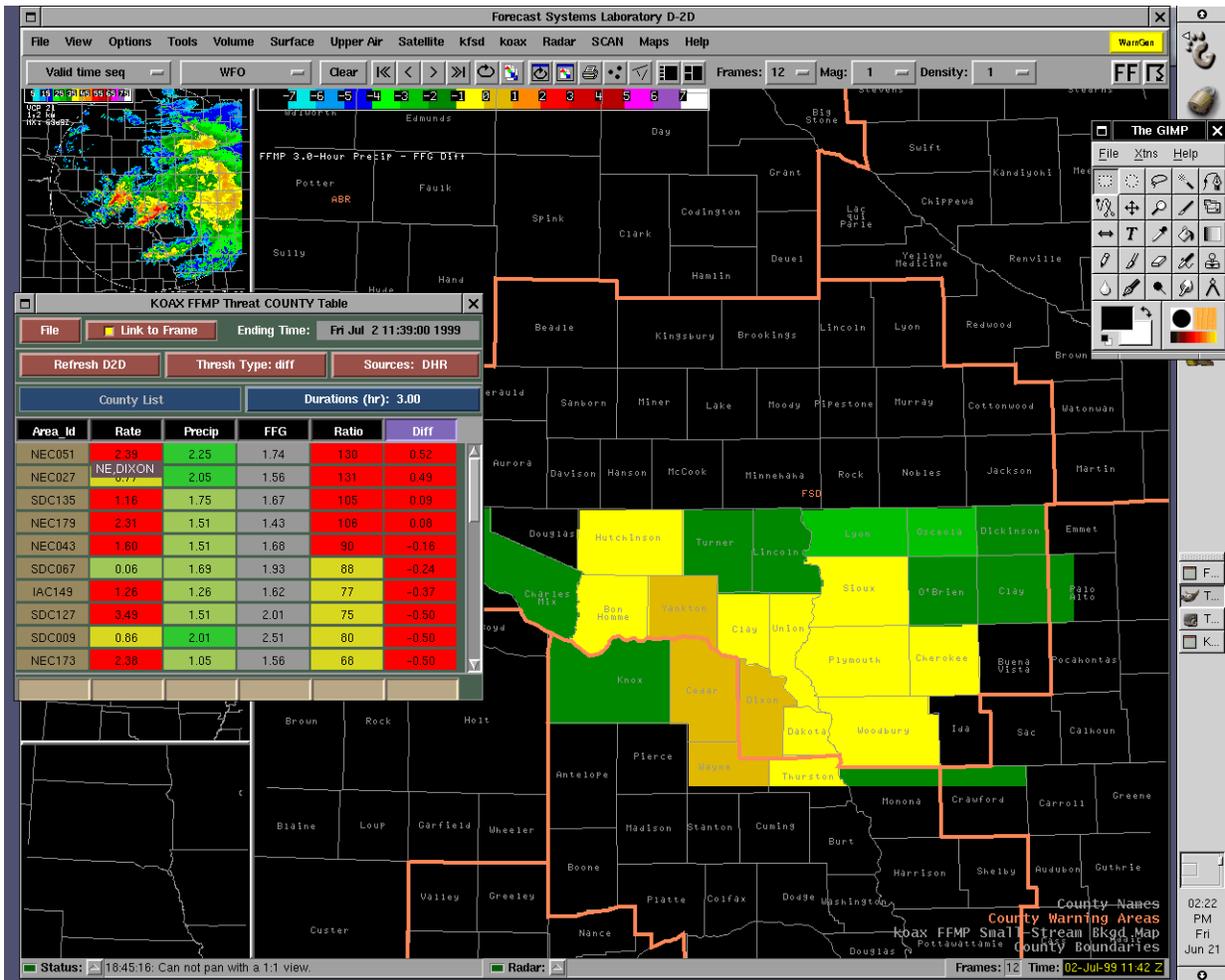
Flash Flood Guidance (FFG)

KINX FFMP Threat COUNTY Table					
File	<input type="checkbox"/> Link to Frame	Ending Time: Wed Jun 12 15:24:00 2002			
Refresh D2D		Thresh Type: precip		Sources: DHR	
County List			Durations (hr): 1.00		
Area_Id	Rate	Precip	FFG	Ratio	Diff
KSC099	0.81	0.91	0.80	113	0.10
KSC125	0.25	0.93	0.95	97	-0.02
OKC105	2.10	1.11	1.36	81	-0.26
OKC147	OK, NOWATA	1.20	1.72	69	-0.53
KSC019	0.17	0.63	1.39	45	-0.76
OKC113	3.18	1.42	2.19	65	-0.77
OKC117	3.03	1.24	2.10	59	-0.87
KSC021	0.05	0.01	1.06	1	-1.05
OKC035	3.06	0.61	1.82	34	-1.21
MOC009	0.00	0.01	1.53	0	-1.53

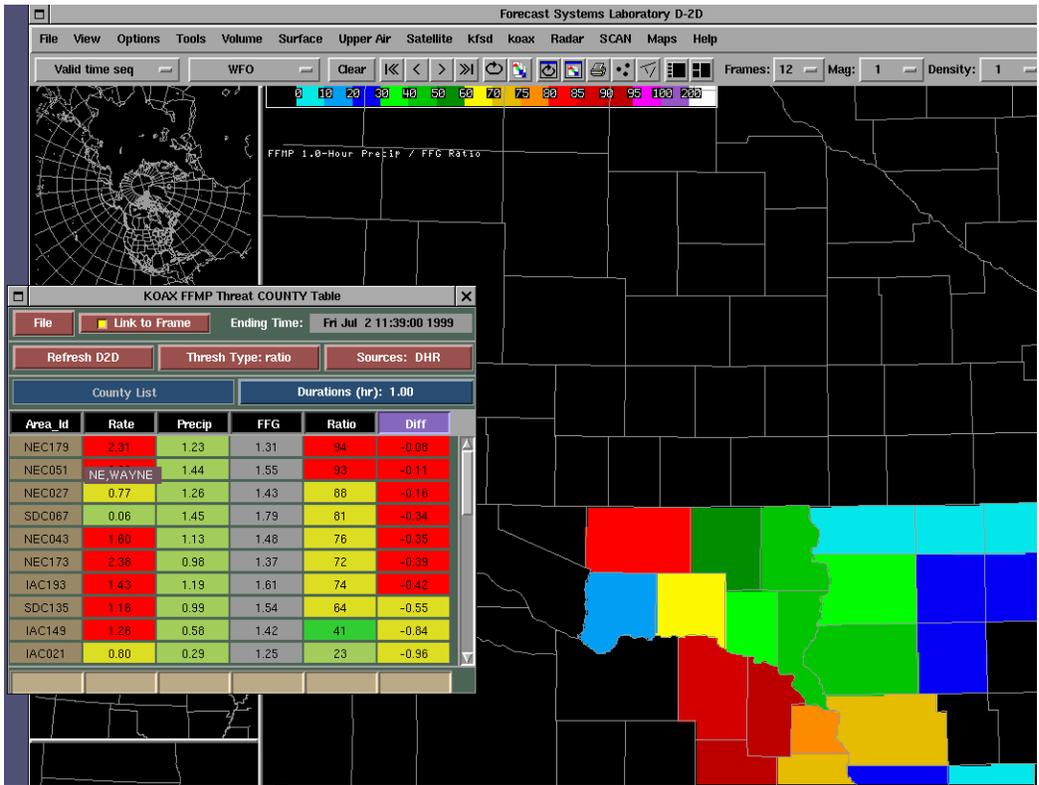
FFMP Basin Table



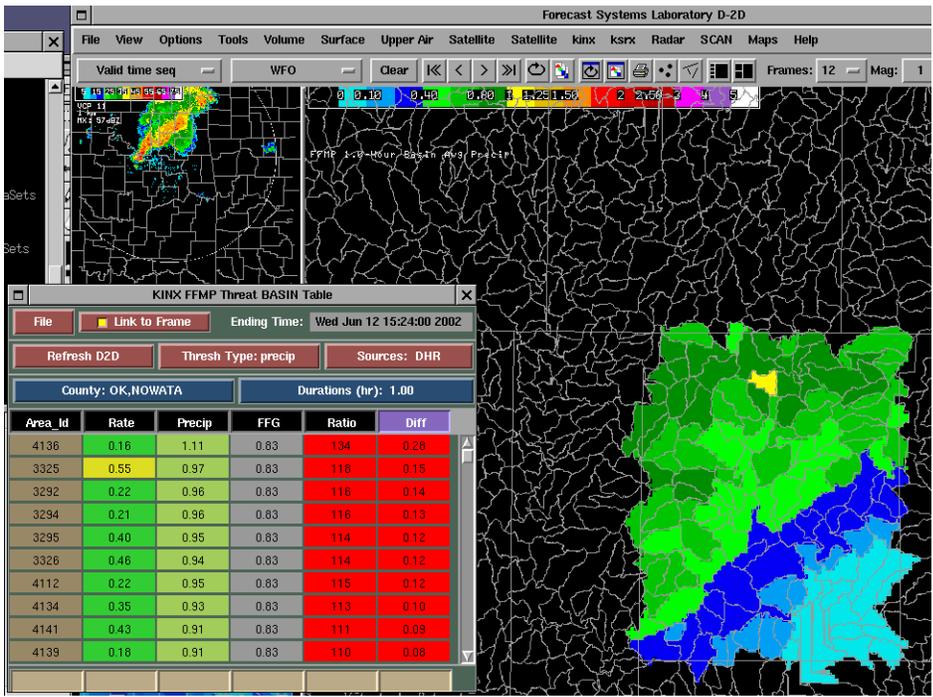
Precip



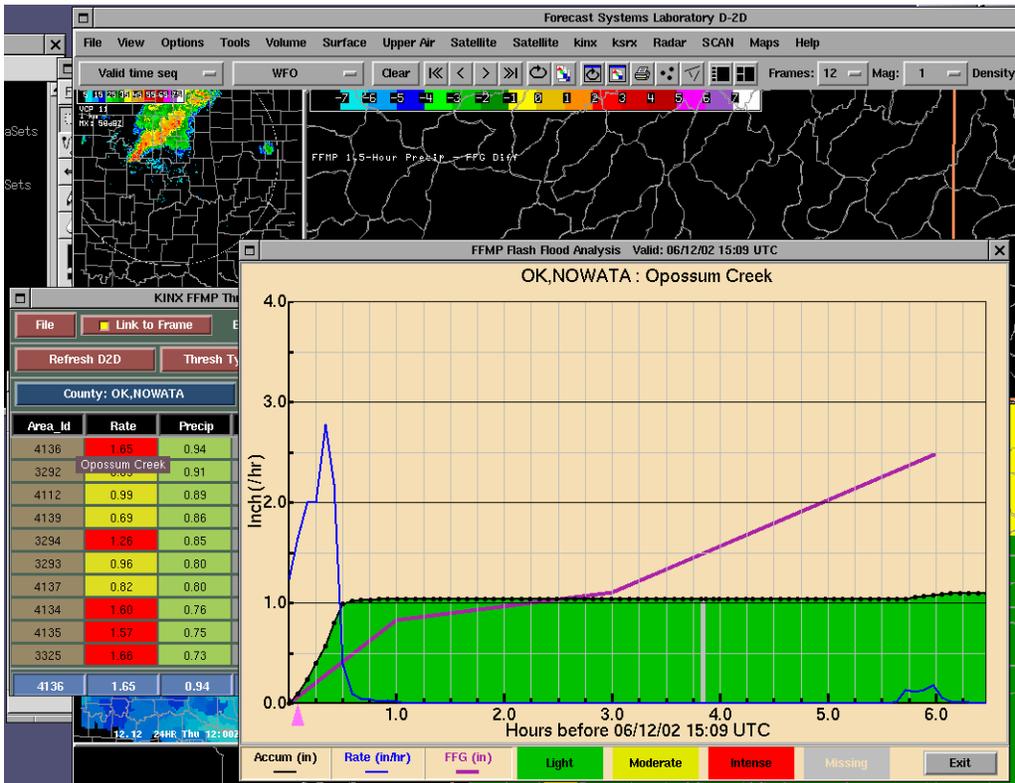
Diff



Ratio



Small Basins



Basin Trend Graph

BASIN Button Colors

Attribute: Precip - FFG(inch)

Upper: -0.5

Mid: -2.0

Lower: -3.0

Apply Cancel

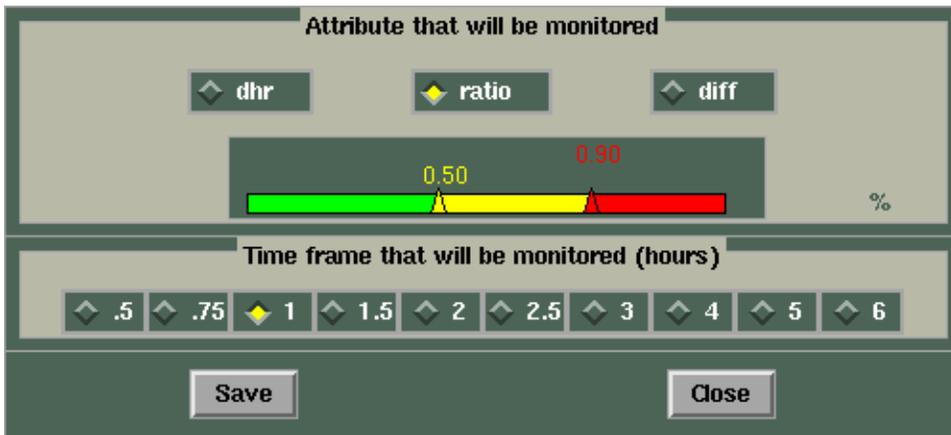
Button Colors Window



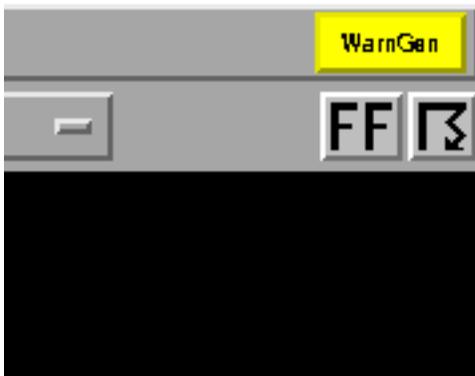
FFMP Flash Flood Threat Index (FFTI)



FFTI Button



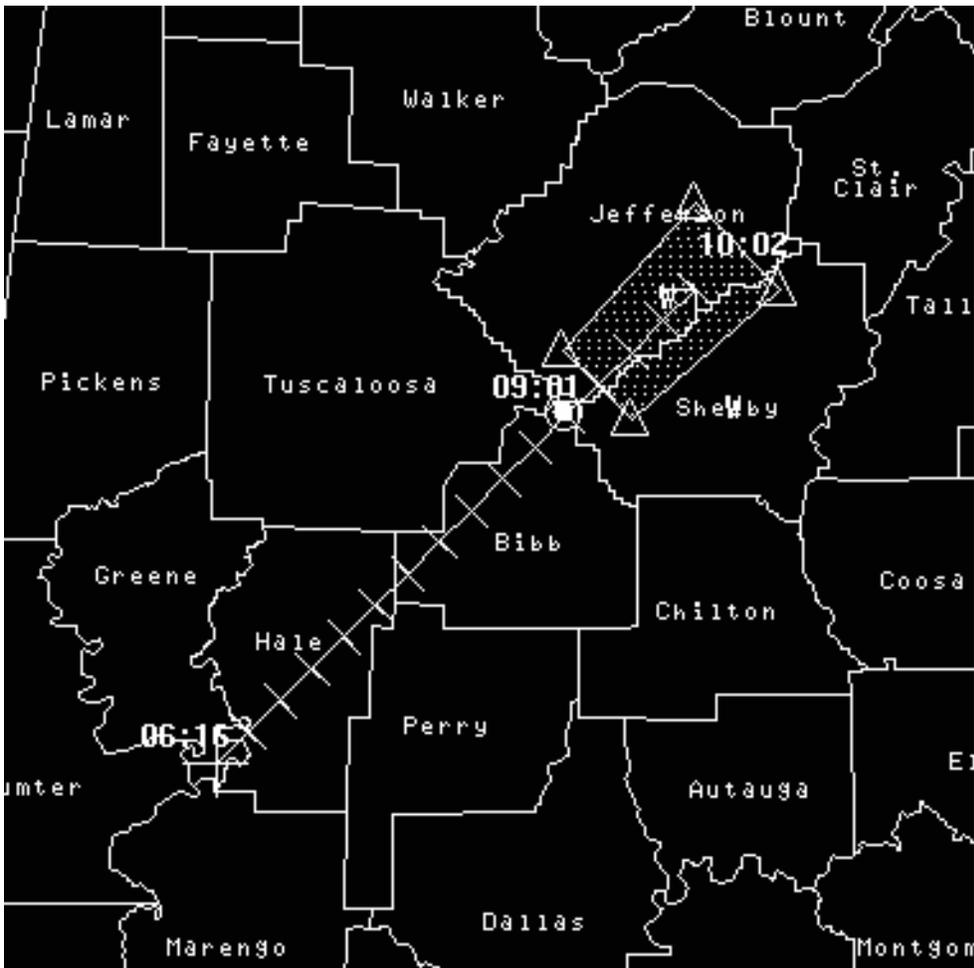
FFTI Change GUI



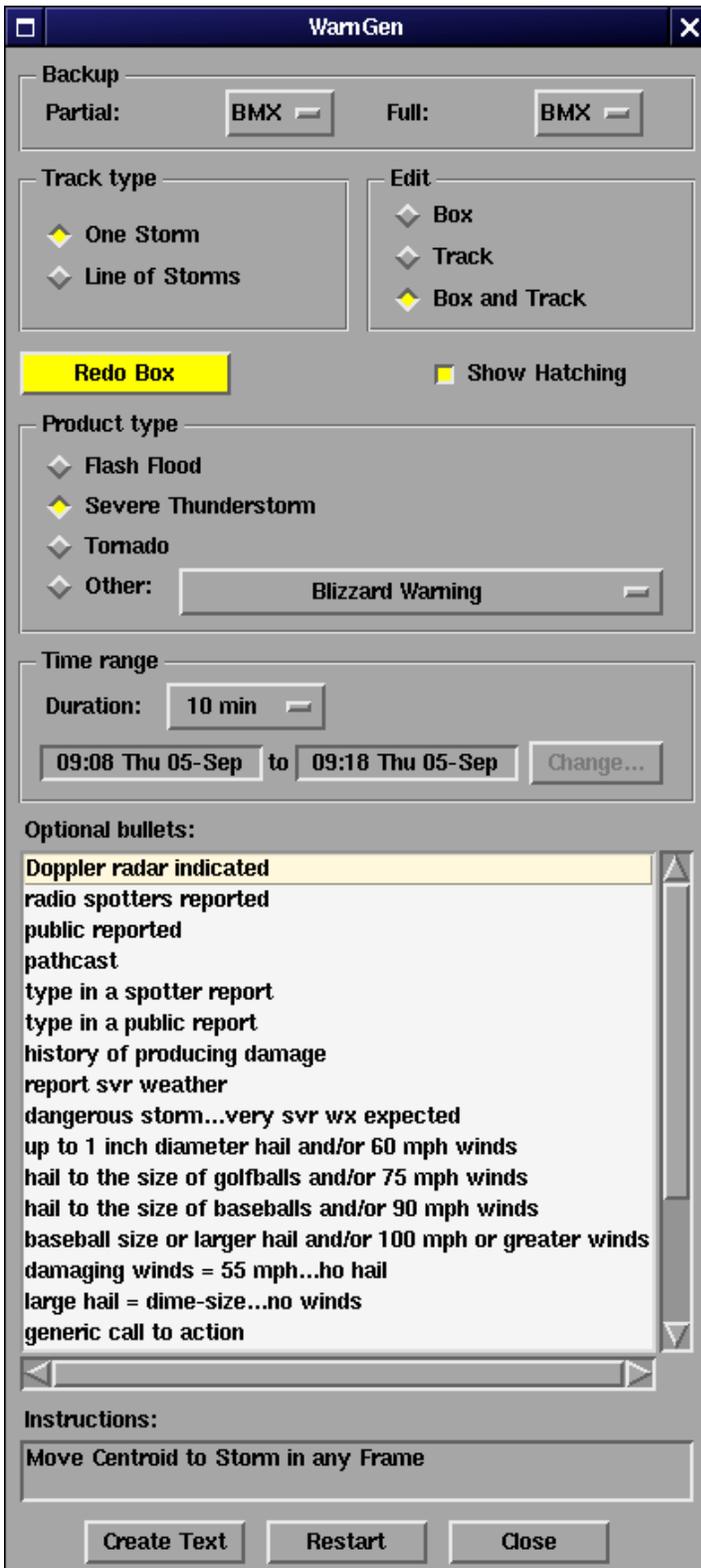
Yellow WarnGen Button



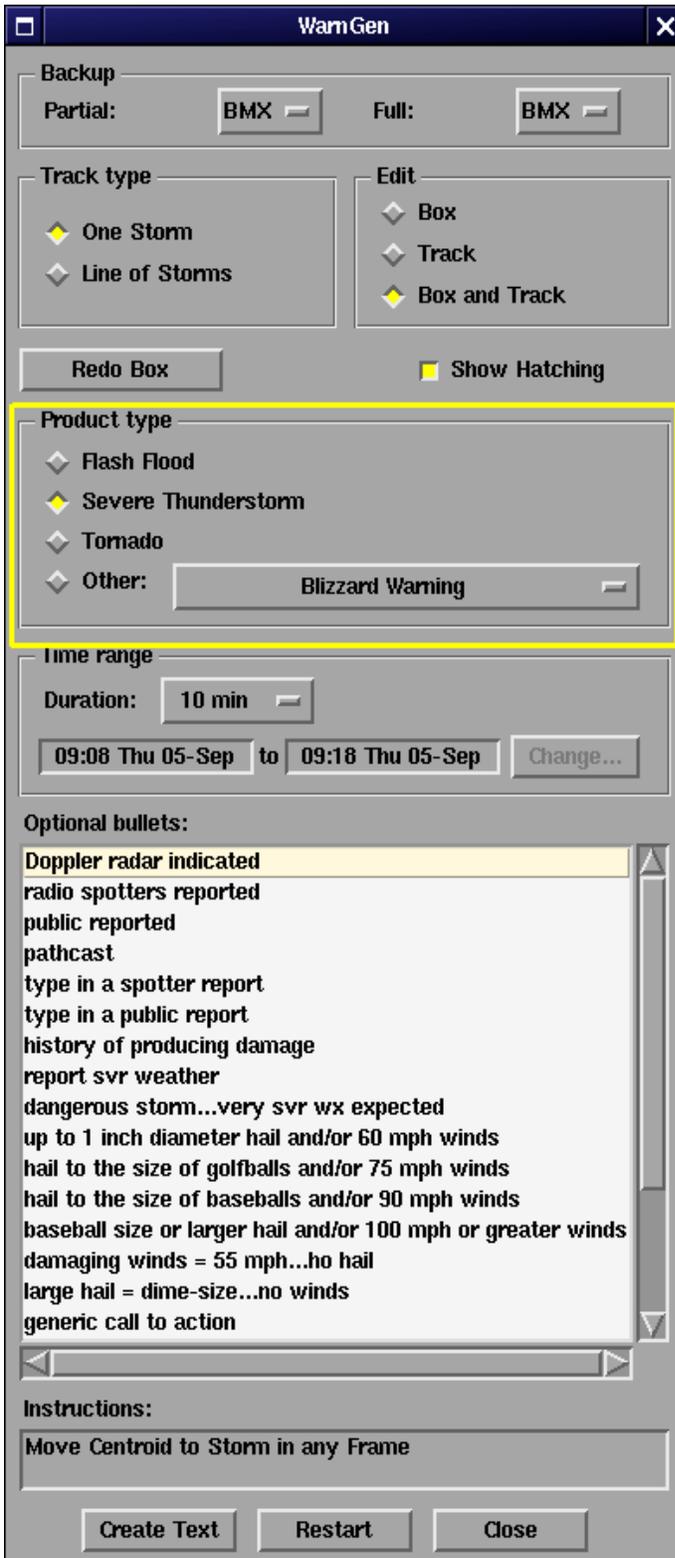
“Drag Me to Storm”



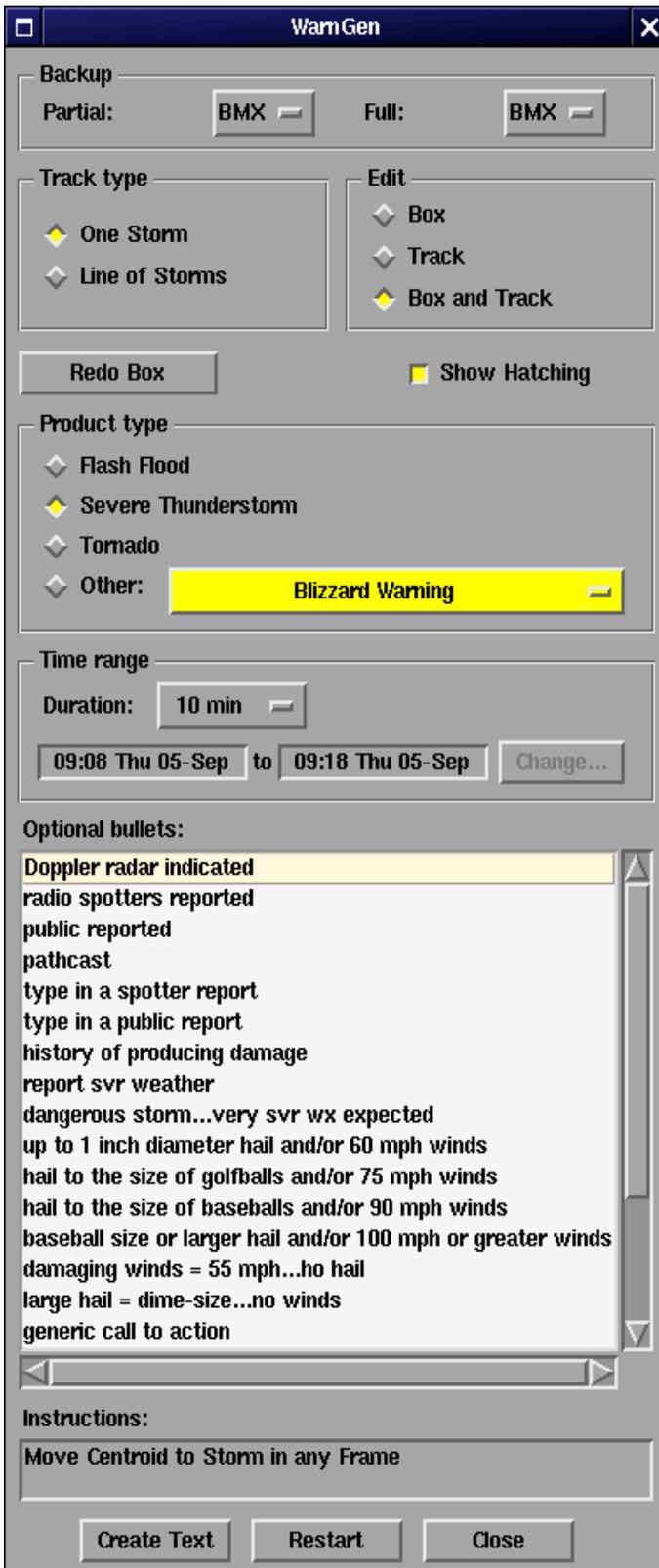
Pathcast



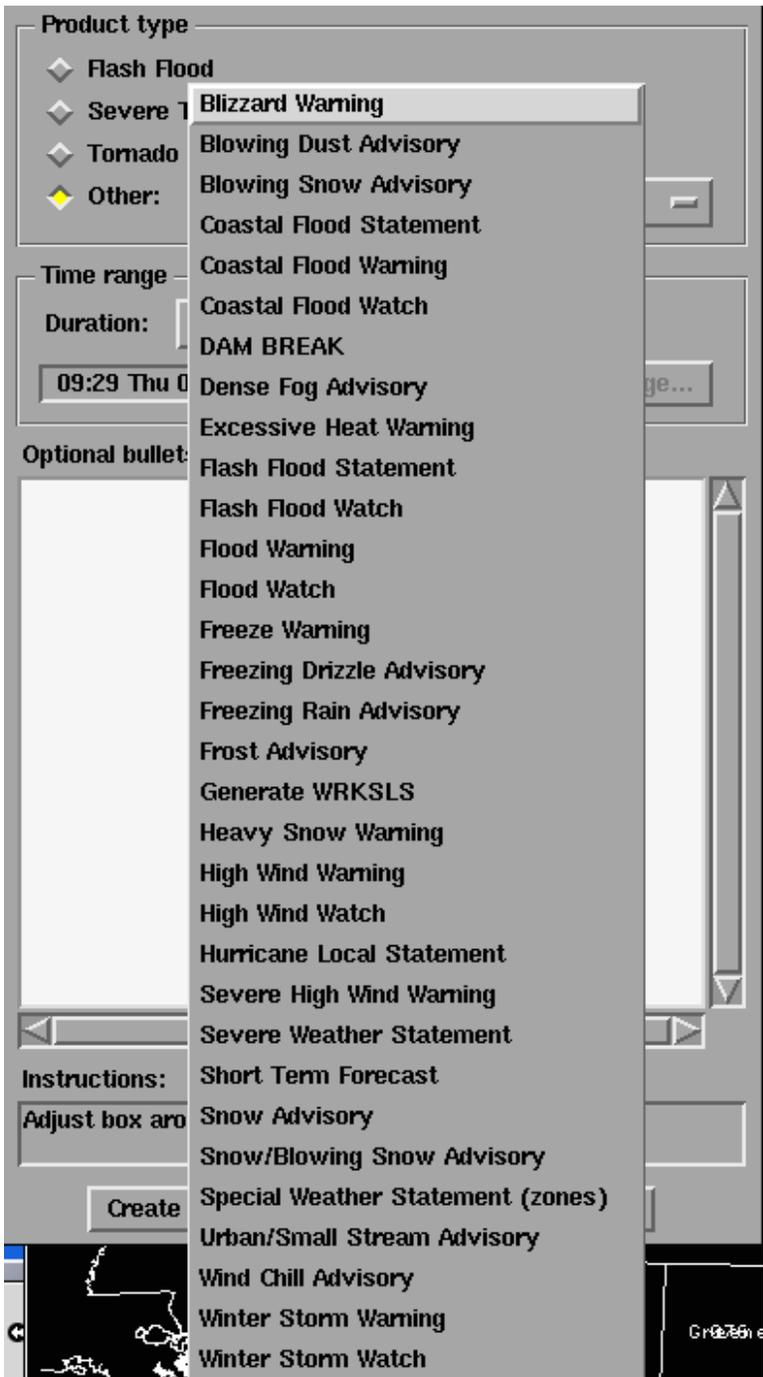
“Redo Box” Button



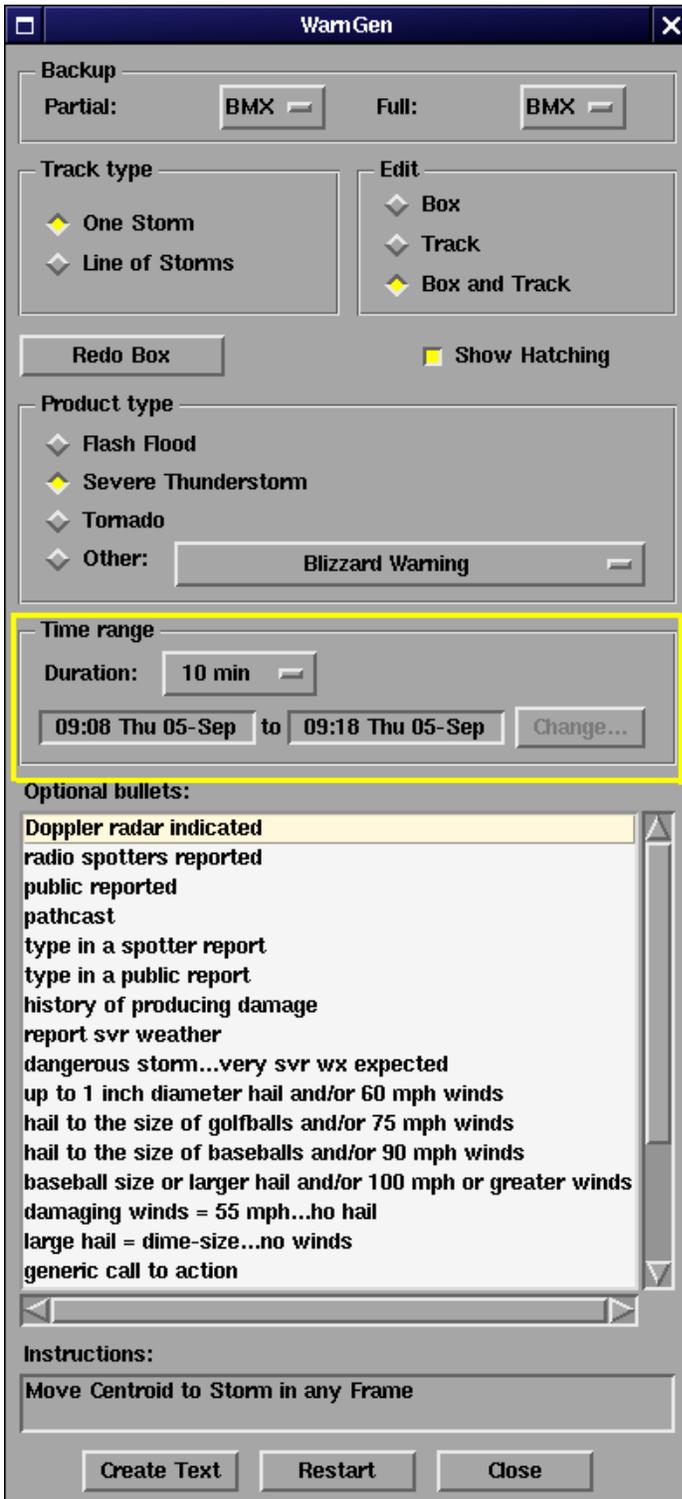
Product Type Area



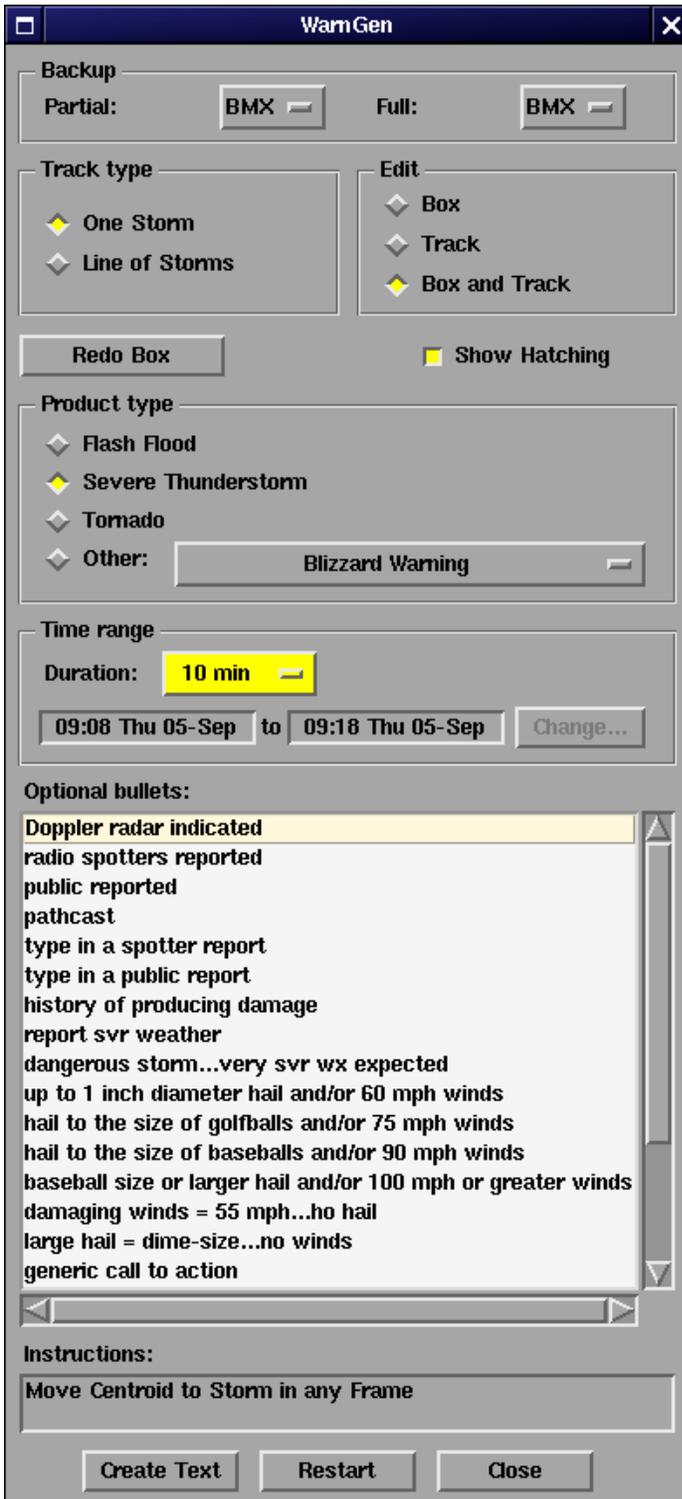
Window Product Pull Down Menu



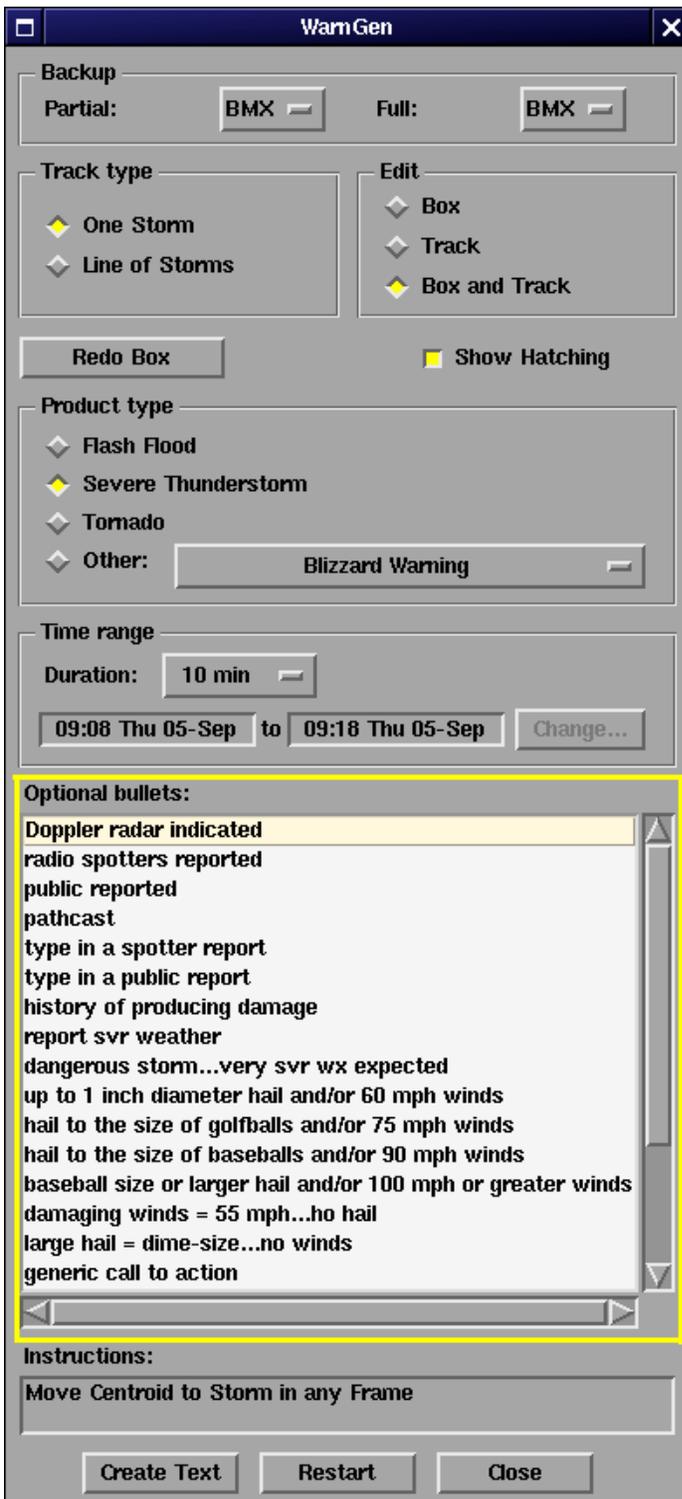
Select the Product



Time Range



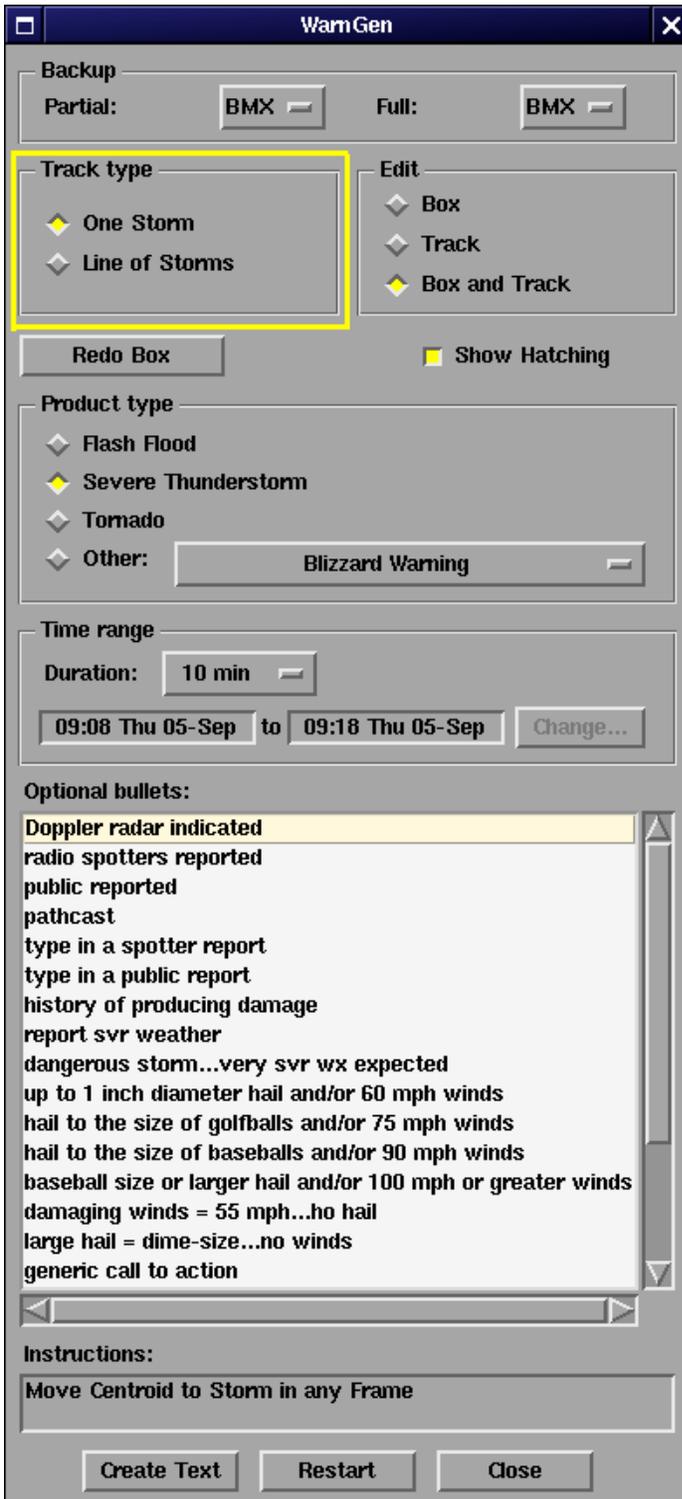
Duration



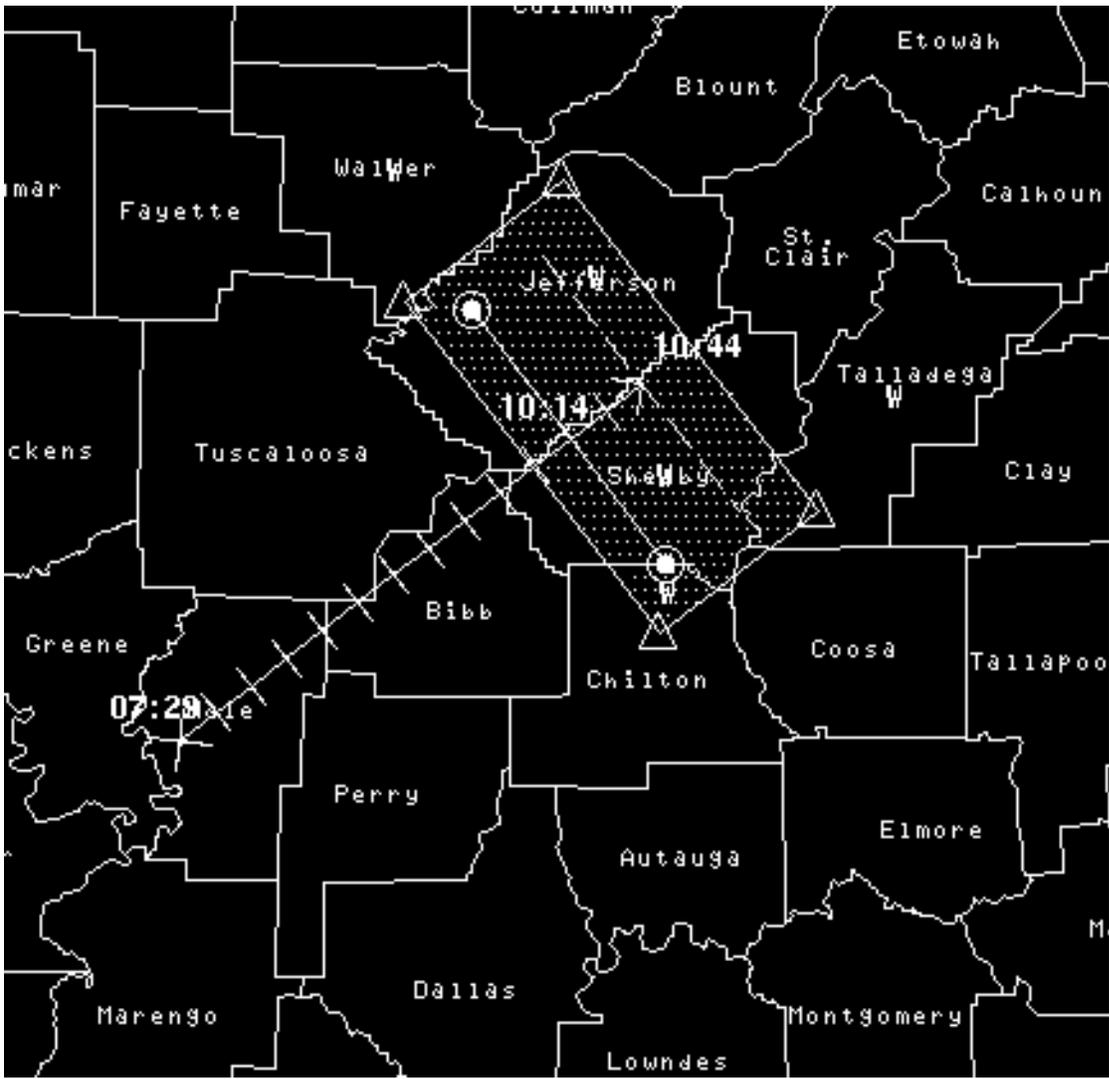
Optional Bullets



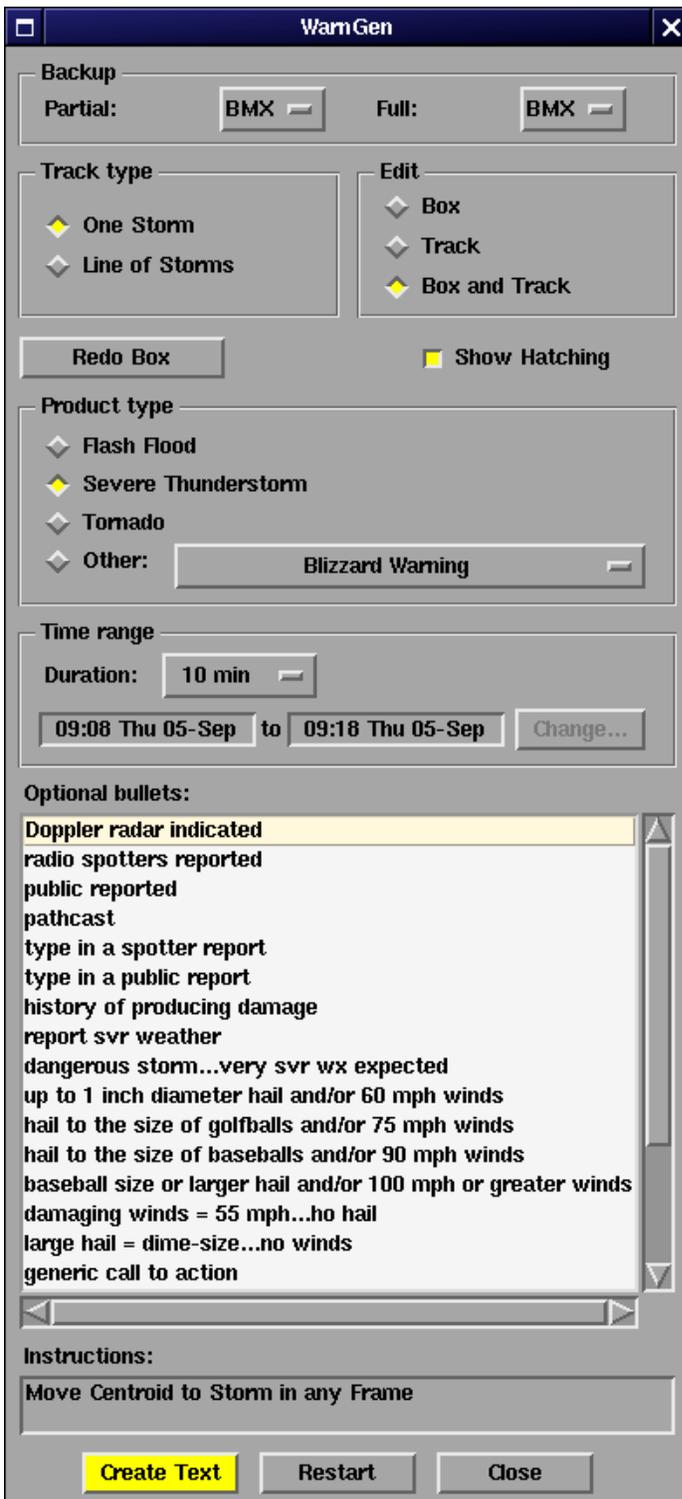
Backup



Track Type



Line Segment



Create Text Button