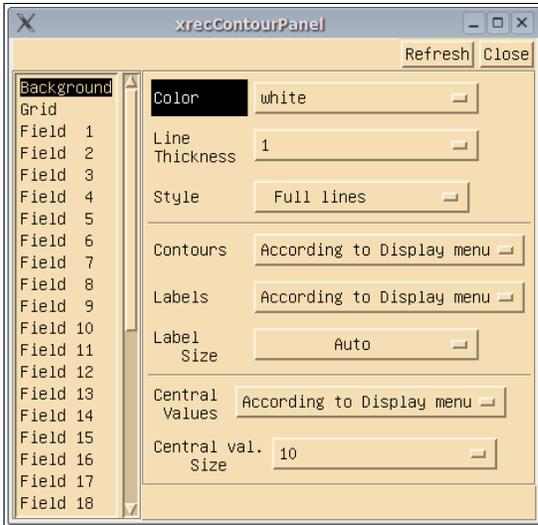


## The Contour Panel

XREC can superimpose up to 32 fields on the same chart. The appearance of each field (i.e. color, line thickness, etc.) is defined by its rank in the display stack. The appearance and behavior of each stack element is defined in the “**Contour**” panel.

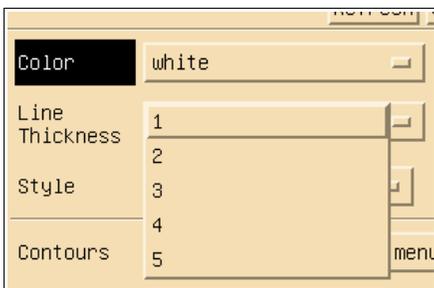
The panel is split in 2 parts. The left part shows the selected display stack element. The right part shows all the display attributes that can be set for each element. Basically, the user selects the display stack element to be modified (eg. “Field 1”) and sets the attributes. There are 32 elements, one for each field, plus one for the background and one for the grid.



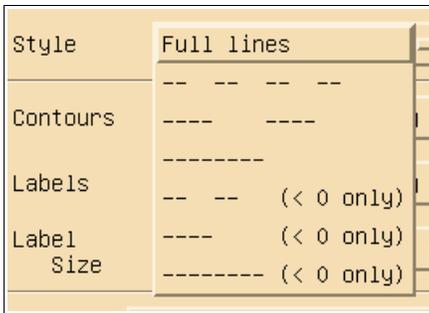
One of the major attributes is color. A choice of 9 colors is proposed.



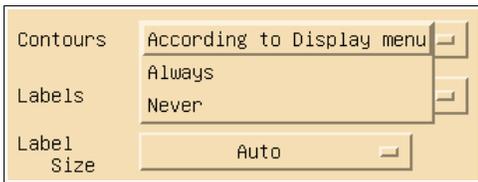
The other element is line thickness. Thicknesses from 1 to 5 can be selected.



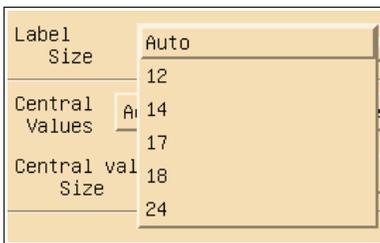
The next element is the contour line styles. The user is given a choice of 4 line dashes, and 3 dash patterns visible only when the values of the field are negative.



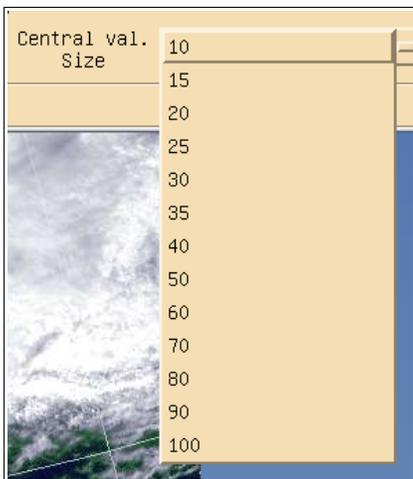
The next part offers an overriding control on the presence / absence of element. For “Contours”, “Labels” and “Central values”, for a given field rank, the user can choose to obey to the toggles of the “Display” menu of the “Control Panel”, or to ignore them by either always or never showing an element.



In the “Label size” option menu the user can fine tune the size of the labels. “Auto” uses the size defined in the “Legend / interpolation” panel, the other units are fixed pixel sizes.

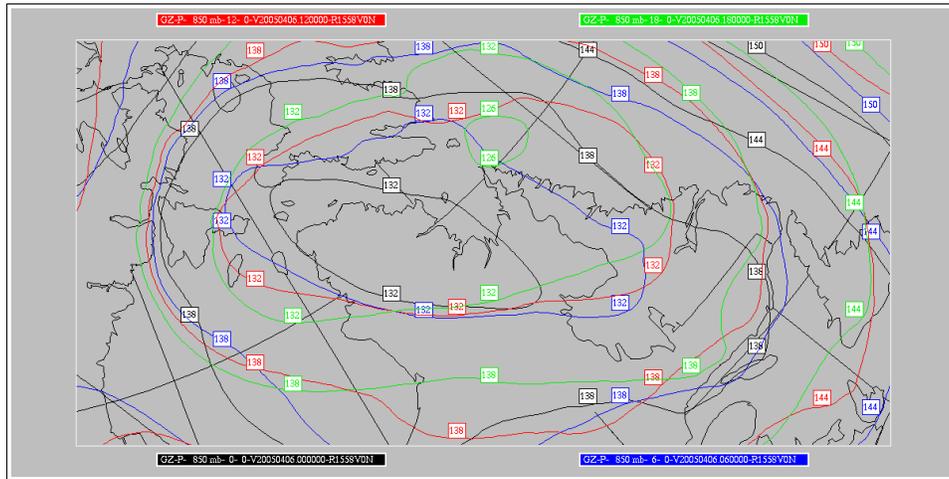


The last item is the “Central value size”, that the user can set for each field.

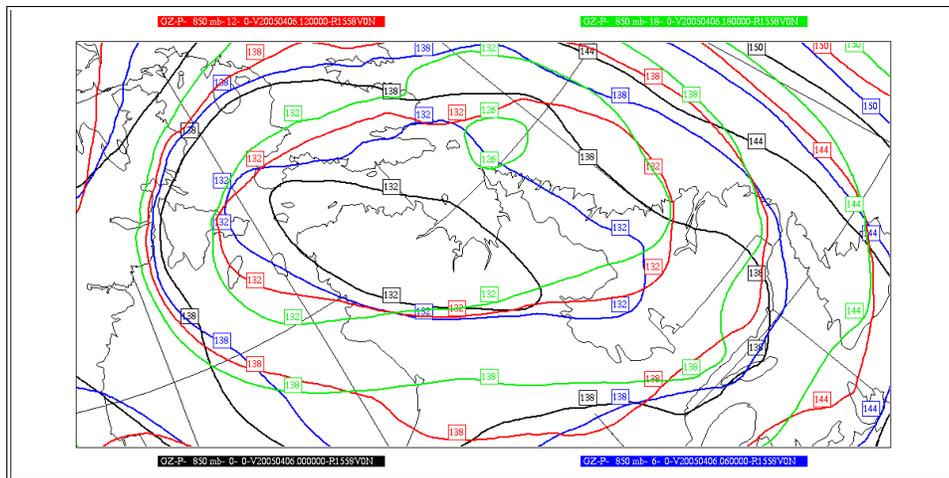


Here are a few examples.

We start with a forecast run from the regional configuration of the GEM model. We display the geopotential at 850 mb for 4 forecast times, 00hr, 06hr, 12hr and 18hr. We superimpose the 4 fields, and put the “Colors” option off from the display menu. This is what xrec gives us by default.



We can make this chart more legible by setting the background to white and the line thicknesses of the 0 hr field to 2. Here are the different settings for the contour panel.



<p>Refresh Close</p> <p>Background Color white</p> <p>Field 1 Line Thickness 1</p> <p>Field 2 Line Thickness 1</p> <p>Field 3 Line Thickness 1</p> <p>Field 4 Line Thickness 1</p> <p>Field 5 Line Thickness 1</p> <p>Field 6 Line Thickness 1</p> <p>Field 7 Line Thickness 1</p> <p>Field 8 Line Thickness 1</p> <p>Field 9 Line Thickness 1</p> <p>Field 10 Line Thickness 1</p> <p>Field 11 Line Thickness 1</p> <p>Field 12 Line Thickness 1</p> <p>Field 13 Line Thickness 1</p> <p>Field 14 Line Thickness 1</p> <p>Field 15 Line Thickness 1</p> <p>Field 16 Line Thickness 1</p> <p>Field 17 Line Thickness 1</p> <p>Field 18 Line Thickness 1</p> <p>Contours According to Display menu</p> <p>Labels According to Display menu</p> <p>Label Size Auto</p> <p>Central Values According to Display menu</p> <p>Central val. Size 20</p>	<p>Refresh Close</p> <p>Background Color black</p> <p>Field 1 Line Thickness 2</p> <p>Field 2 Line Thickness 2</p> <p>Field 3 Line Thickness 2</p> <p>Field 4 Line Thickness 2</p> <p>Field 5 Line Thickness 2</p> <p>Field 6 Line Thickness 2</p> <p>Field 7 Line Thickness 2</p> <p>Field 8 Line Thickness 2</p> <p>Field 9 Line Thickness 2</p> <p>Field 10 Line Thickness 2</p> <p>Field 11 Line Thickness 2</p> <p>Field 12 Line Thickness 2</p> <p>Field 13 Line Thickness 2</p> <p>Field 14 Line Thickness 2</p> <p>Field 15 Line Thickness 2</p> <p>Field 16 Line Thickness 2</p> <p>Field 17 Line Thickness 2</p> <p>Field 18 Line Thickness 2</p> <p>Contours According to Display menu</p> <p>Labels According to Display menu</p> <p>Label Size Auto</p> <p>Central Values According to Display menu</p> <p>Central val. Size 20</p>	<p>Refresh Close</p> <p>Background Color blue</p> <p>Field 1 Line Thickness 2</p> <p>Field 2 Line Thickness 2</p> <p>Field 3 Line Thickness 2</p> <p>Field 4 Line Thickness 2</p> <p>Field 5 Line Thickness 2</p> <p>Field 6 Line Thickness 2</p> <p>Field 7 Line Thickness 2</p> <p>Field 8 Line Thickness 2</p> <p>Field 9 Line Thickness 2</p> <p>Field 10 Line Thickness 2</p> <p>Field 11 Line Thickness 2</p> <p>Field 12 Line Thickness 2</p> <p>Field 13 Line Thickness 2</p> <p>Field 14 Line Thickness 2</p> <p>Field 15 Line Thickness 2</p> <p>Field 16 Line Thickness 2</p> <p>Field 17 Line Thickness 2</p> <p>Field 18 Line Thickness 2</p> <p>Contours According to Display menu</p> <p>Labels According to Display menu</p> <p>Label Size Auto</p> <p>Central Values According to Display menu</p> <p>Central val. Size 20</p>	<p>Refresh Close</p> <p>Background Color red</p> <p>Field 1 Line Thickness 2</p> <p>Field 2 Line Thickness 2</p> <p>Field 3 Line Thickness 2</p> <p>Field 4 Line Thickness 2</p> <p>Field 5 Line Thickness 2</p> <p>Field 6 Line Thickness 2</p> <p>Field 7 Line Thickness 2</p> <p>Field 8 Line Thickness 2</p> <p>Field 9 Line Thickness 2</p> <p>Field 10 Line Thickness 2</p> <p>Field 11 Line Thickness 2</p> <p>Field 12 Line Thickness 2</p> <p>Field 13 Line Thickness 2</p> <p>Field 14 Line Thickness 2</p> <p>Field 15 Line Thickness 2</p> <p>Field 16 Line Thickness 2</p> <p>Field 17 Line Thickness 2</p> <p>Field 18 Line Thickness 2</p> <p>Contours According to Display menu</p> <p>Labels According to Display menu</p> <p>Label Size Auto</p> <p>Central Values According to Display menu</p> <p>Central val. Size 20</p>	<p>Refresh Close</p> <p>Background Color green</p> <p>Field 1 Line Thickness 2</p> <p>Field 2 Line Thickness 2</p> <p>Field 3 Line Thickness 2</p> <p>Field 4 Line Thickness 2</p> <p>Field 5 Line Thickness 2</p> <p>Field 6 Line Thickness 2</p> <p>Field 7 Line Thickness 2</p> <p>Field 8 Line Thickness 2</p> <p>Field 9 Line Thickness 2</p> <p>Field 10 Line Thickness 2</p> <p>Field 11 Line Thickness 2</p> <p>Field 12 Line Thickness 2</p> <p>Field 13 Line Thickness 2</p> <p>Field 14 Line Thickness 2</p> <p>Field 15 Line Thickness 2</p> <p>Field 16 Line Thickness 2</p> <p>Field 17 Line Thickness 2</p> <p>Field 18 Line Thickness 2</p> <p>Contours According to Display menu</p> <p>Labels According to Display menu</p> <p>Label Size Auto</p> <p>Central Values According to Display menu</p> <p>Central val. Size 20</p>
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