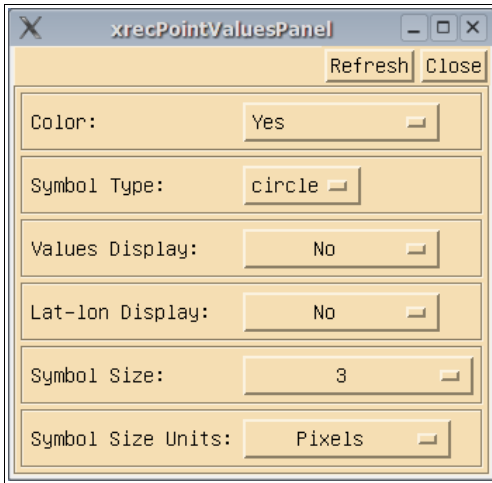


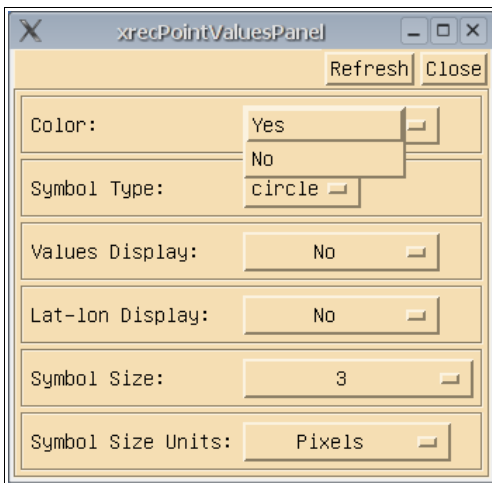
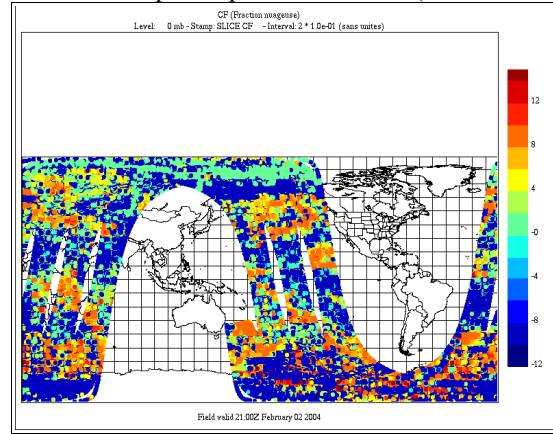
The Point Values Panel



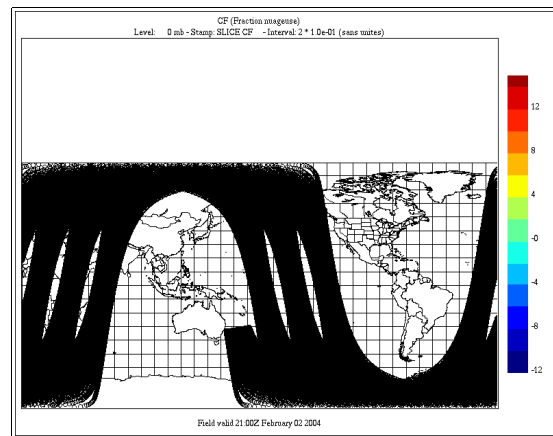
This panel allows the user to fine tune the visual settings of xrec to view clouds of lat-lon values.

Older versions of xrec (prior to version 5.2) had more limited capabilities to visualize clouds of lat-lon values. Newer version add more functionality. The fields can now be displayed in colors, and the size of the symbols can be more finely adjusted.

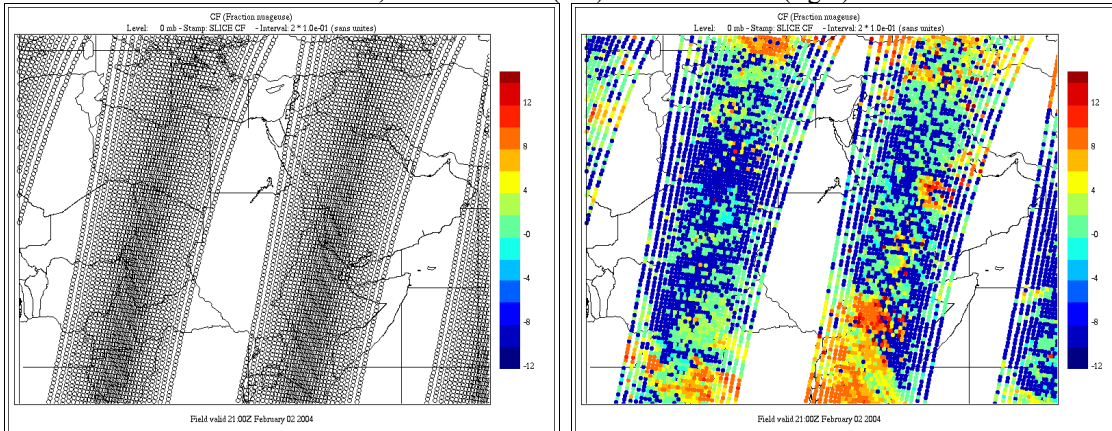
Here is a sample output from xrec5.4 (Data courtesy of Dr. Louis Garand).



The first parameter that can be adjusted is the color, that can set on (as above) or off (as below).



A zoom of the same data on Africa, without colors (left) and with colors (right)



Refresh Close

Color: Yes

Symbol Type: cross
circle
square

Values Display:

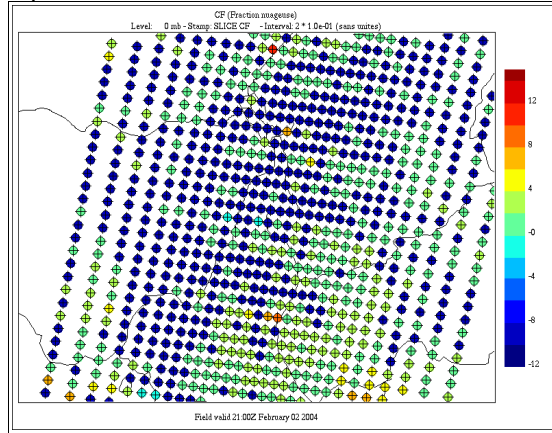
Lat-lon Display: No

Symbol Size: 3

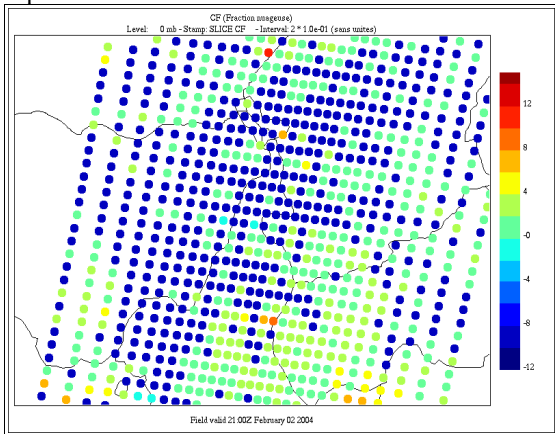
Symbol Size Units: Pixels

The next parameter than can be adjusted is the symbol shape : a cross, a circle (the default) or a square.

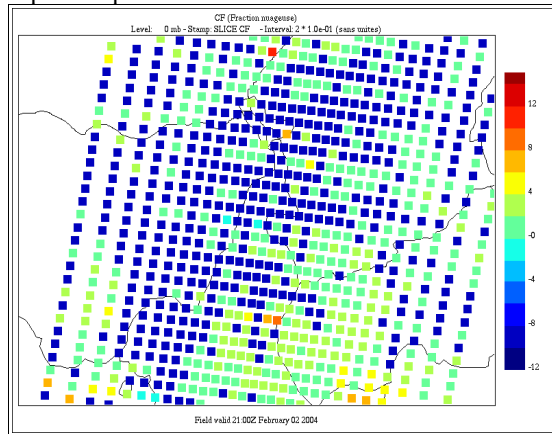
6-pixel Cross

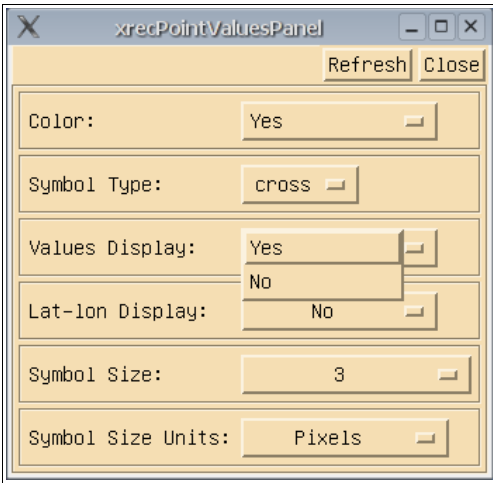


6-pixel Circle



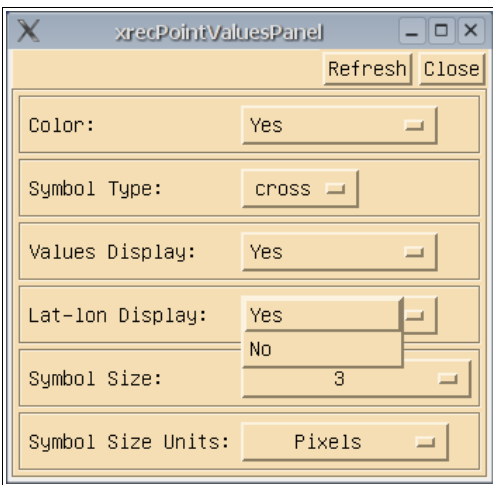
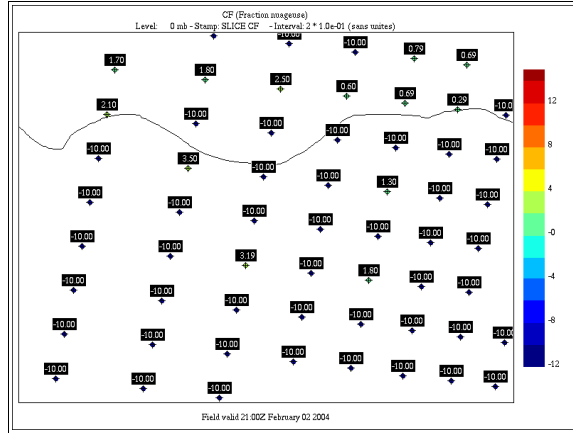
6-pixel Square





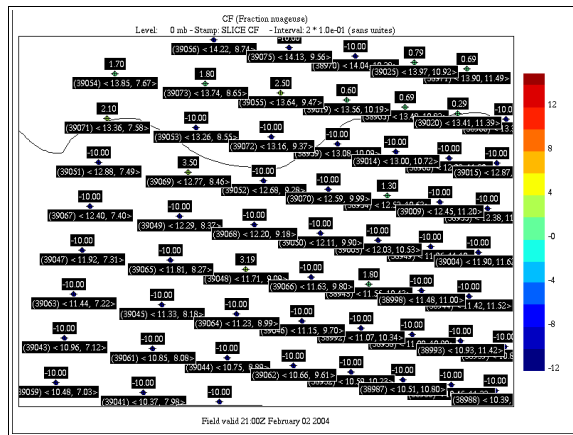
The next parameter is the display of the value of the field at the lat-lon point.

Here is a sample with values on :

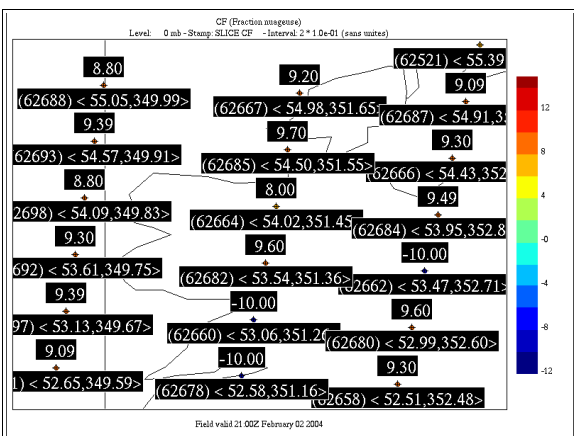


The next parameter is the display of lat-lon position.

The picture below is the same as above with the lat-lon added. The plotting model is (NNN) <lat, lon> where (NNN) is the rank of the value in the field (aids debugging!), lat is the latitude (-90, 90 deg.) and lon is the longitude (0-360 deg.)

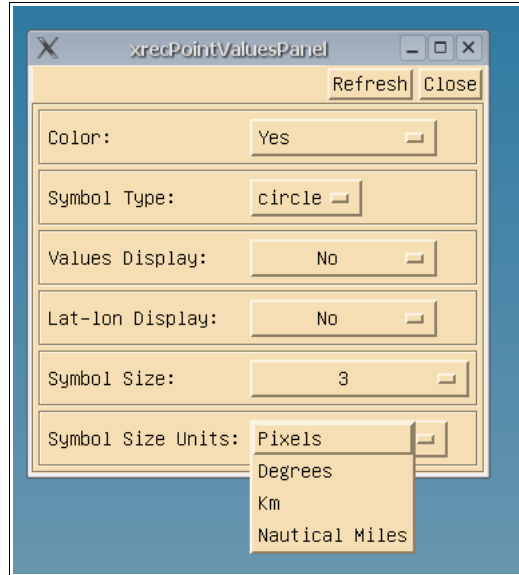
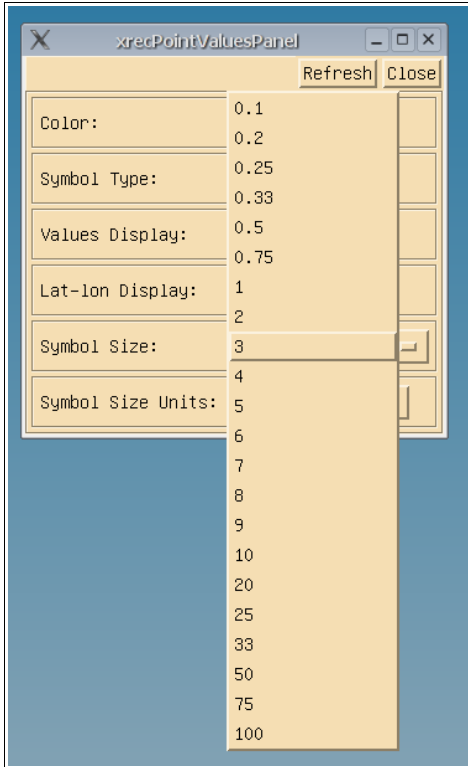


The size of the font used to display values can be adjusted from the “Label size” option in the “Legend / Interpolation” panel. The following picture shows the effect of setting this parameter to 24 points.



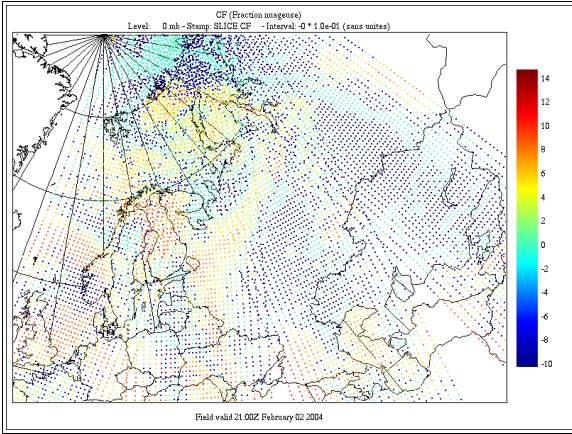
The last two items go together : Symbol size and symbol units. “Symbol size” defines the size of the symbol in the units selected in “Symbol Size units”. The range of values is fairly large; here are some suggested values

Units	Size
Pixels	1-10
Degrees	0.1-1
Km	0.1-50
Nautical Miles	0.1-25

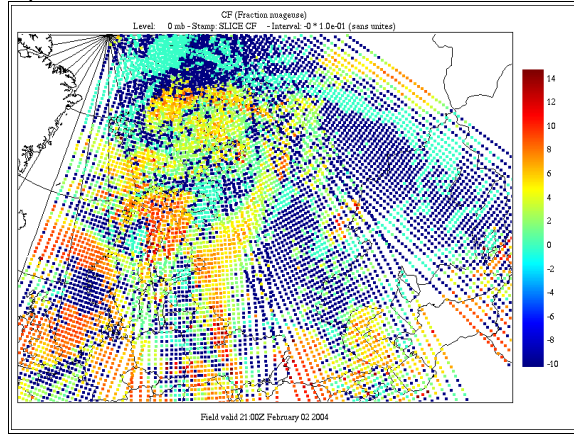


Here are a few examples when units are in Pixels

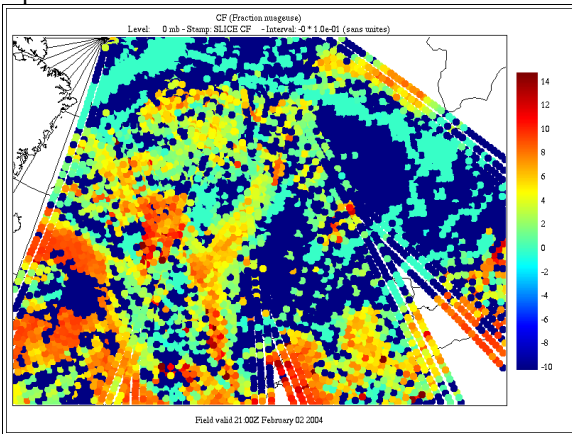
1 Pixel



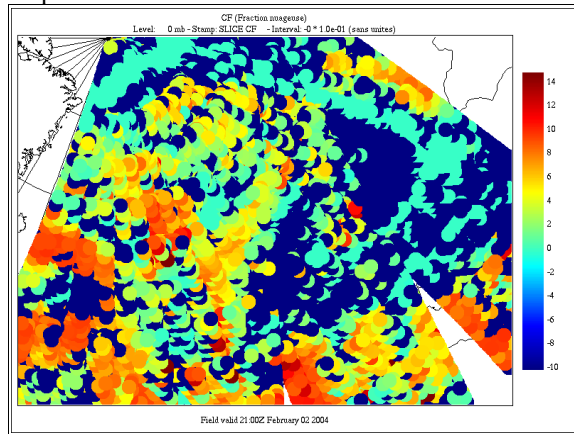
2 pixels



5 pixels

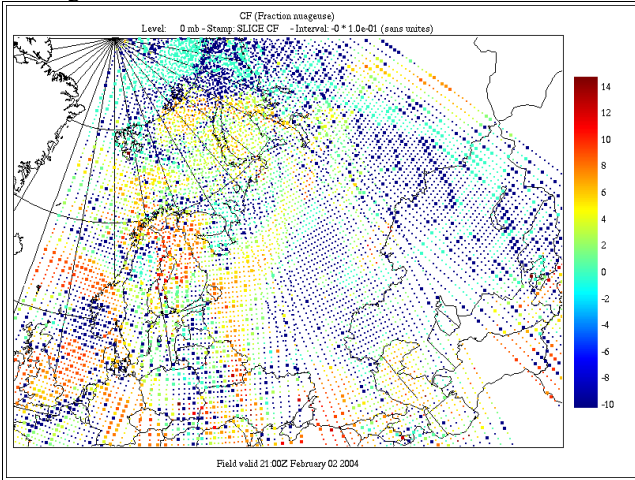


10 pixels

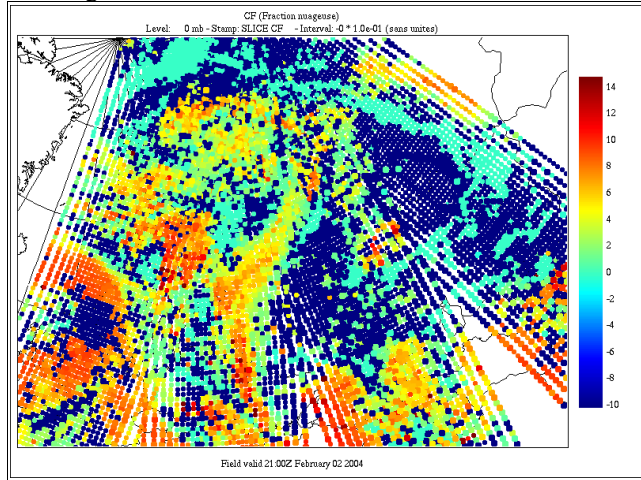


Here are a few examples when units are in Degrees

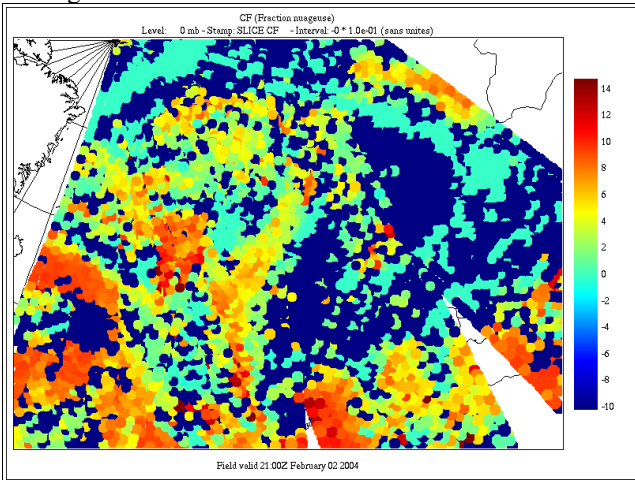
0.1 degrees



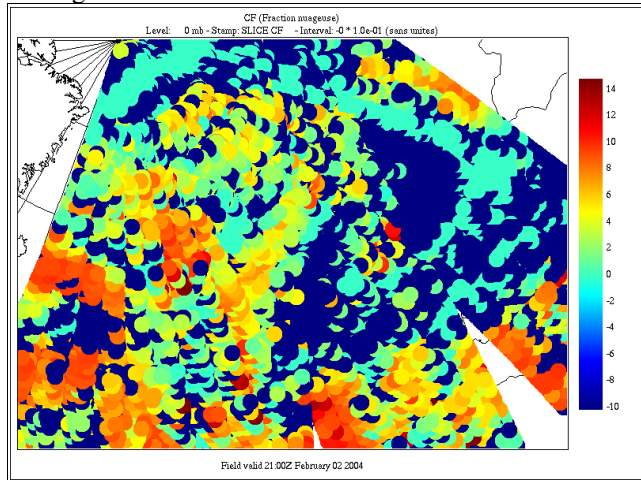
0.25 degrees



0.5 degree

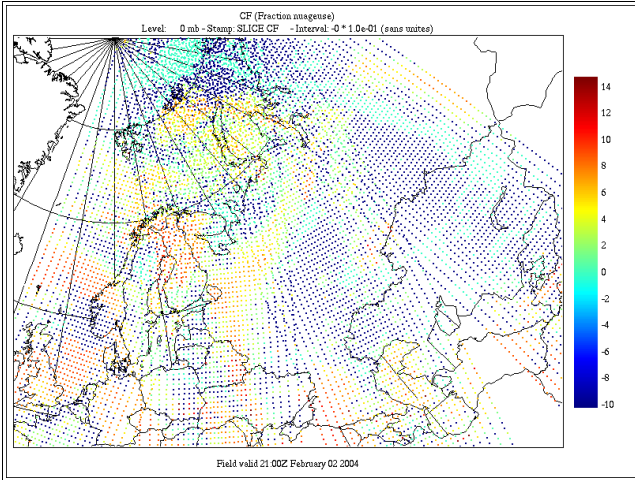


1.0 degree

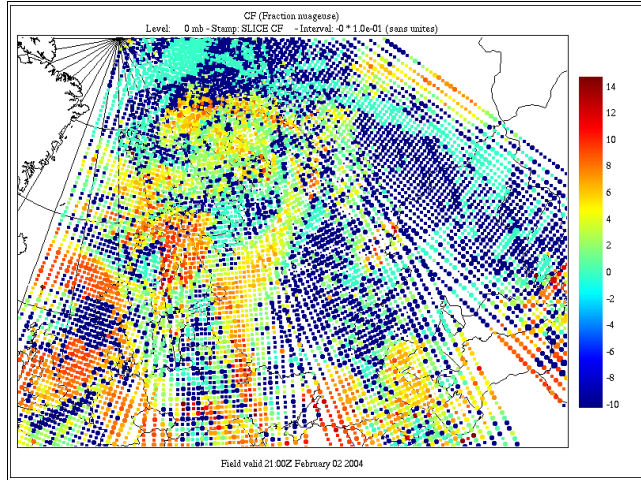


Here are a few examples when units are in kilometers (km)

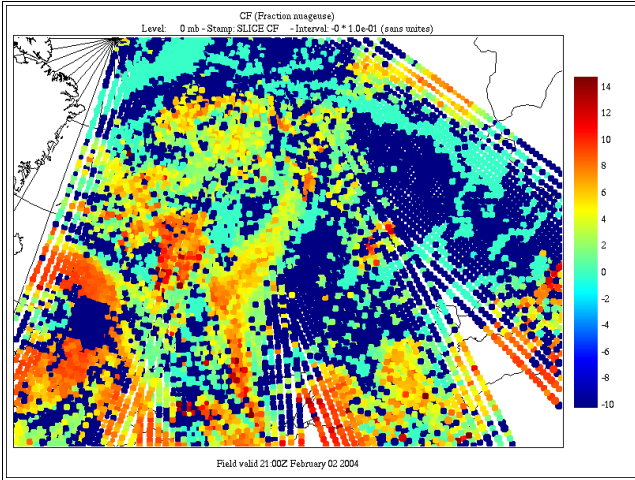
1 km



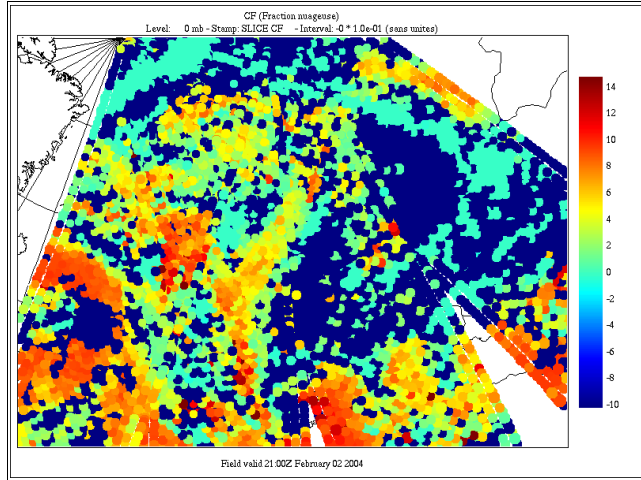
20 km



33 km

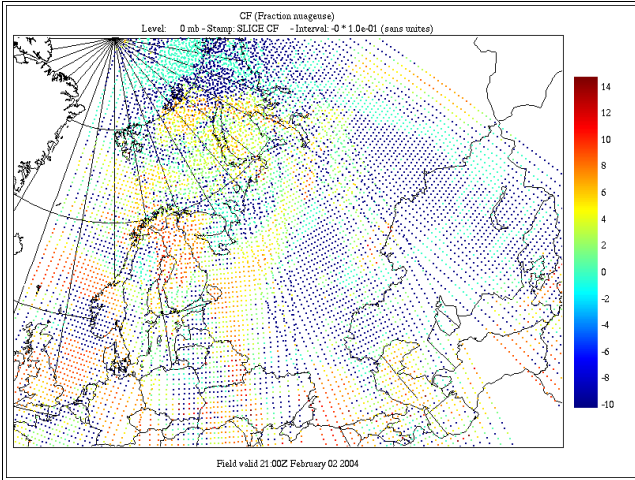


50 km

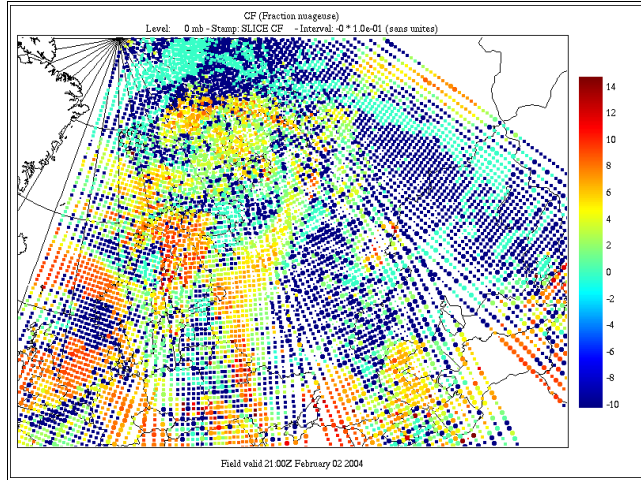


Here are a few examples when units are in nautical miles

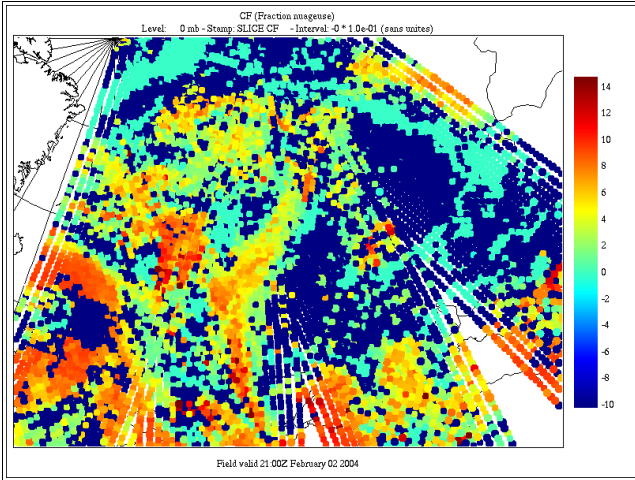
1 nautical Mile



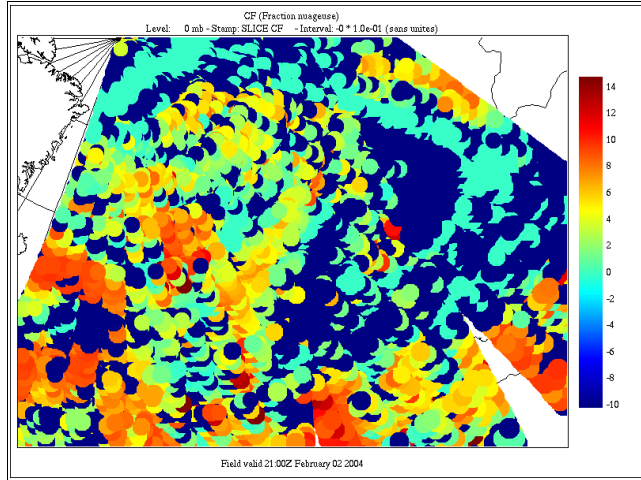
10 nautical miles



20 nautical miles

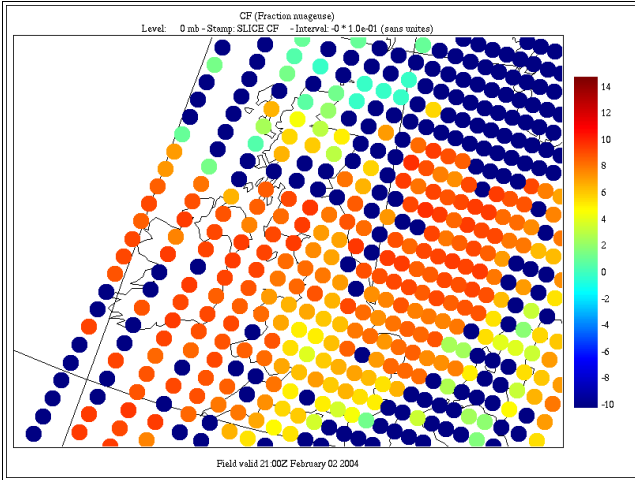


50 nautical miles

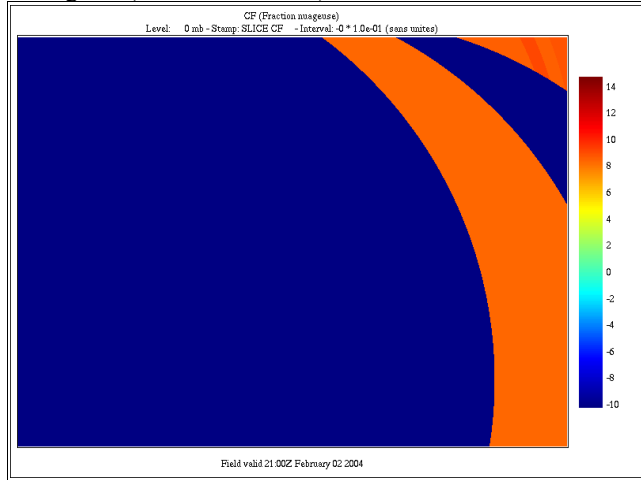


Compared units

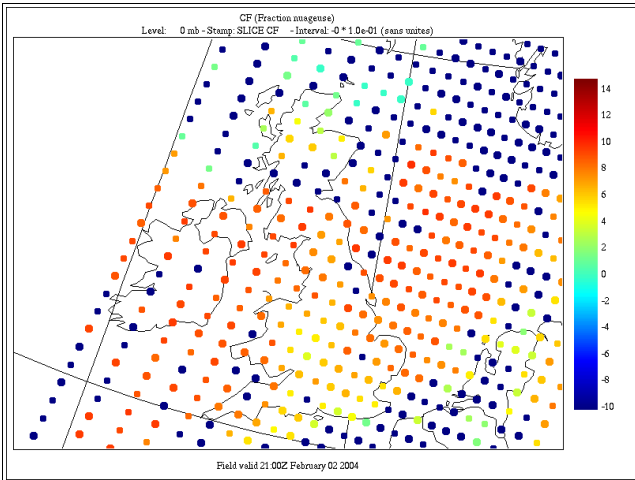
10 Pixel



10 degrees (not much useful!)



10 km



10 nautical miles

