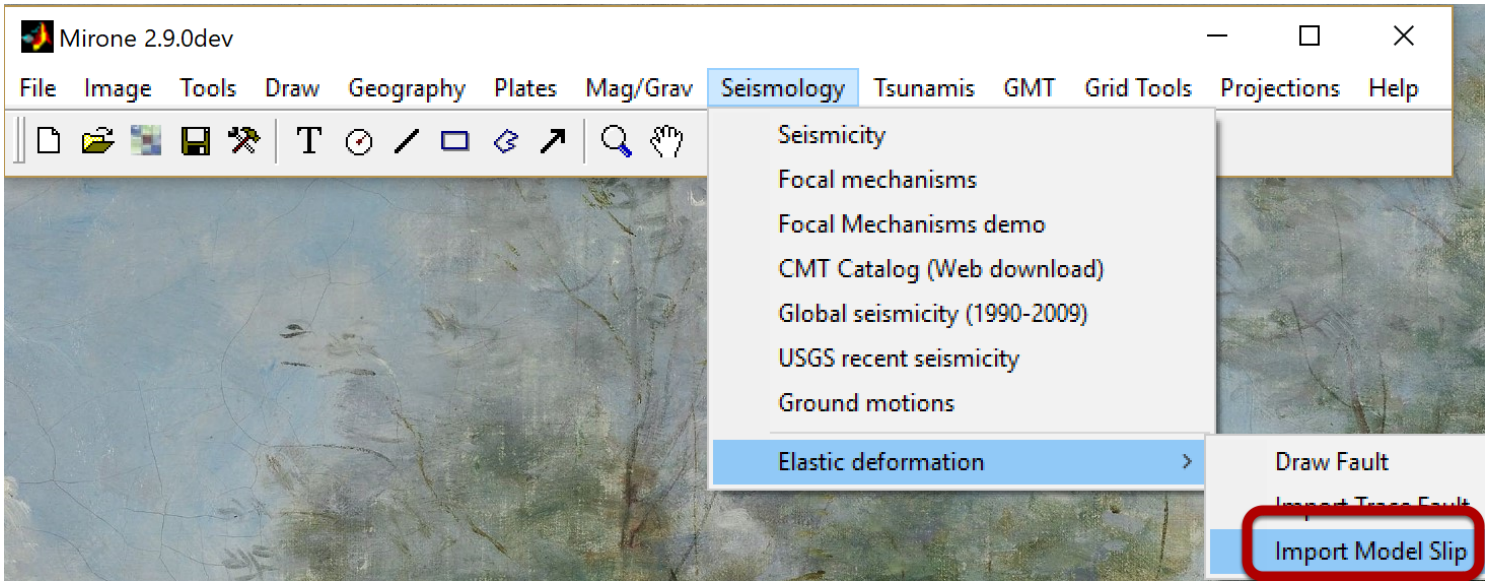
Compute seismic deformation and interferogram of a multi-patch solution

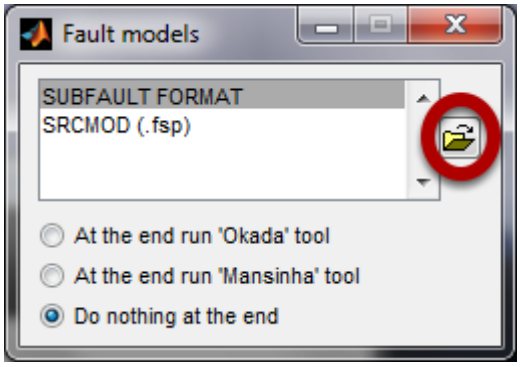
Compute the seismic elastic deformation of the multi-patch solution as those published by USGS. In this example we will use the solution for the Feb 27, 2010 Mw 8.8 Maule, Chile Earthquake. We will also show hot to compute a synthetic interferogram for this event.
The solution file can be downloaded from:
http://w3.ualg.pt/~jluis/mirone_example_data/static_out

Start with a empty Mirone window



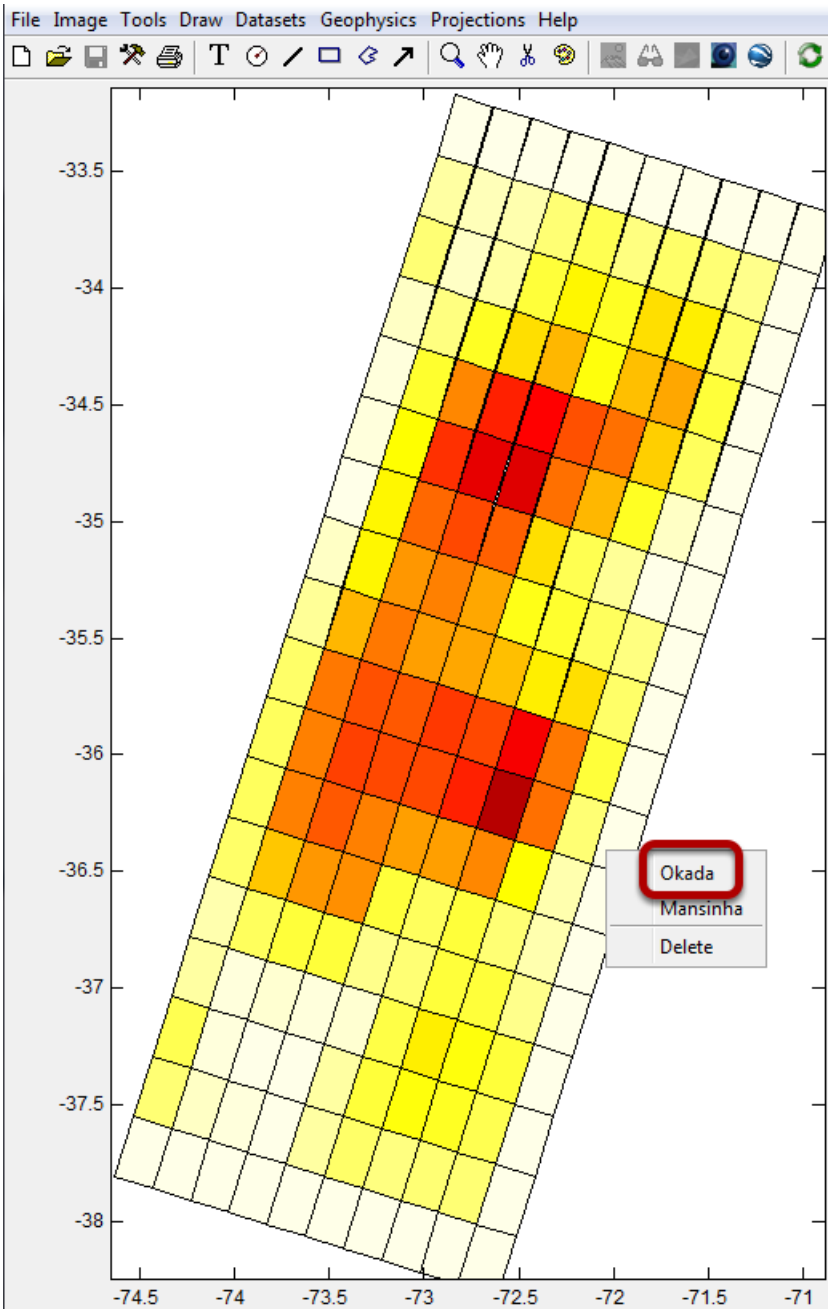
Load the multi-patch file. For that call the import window, which done as shown above

Load the multi-patch file



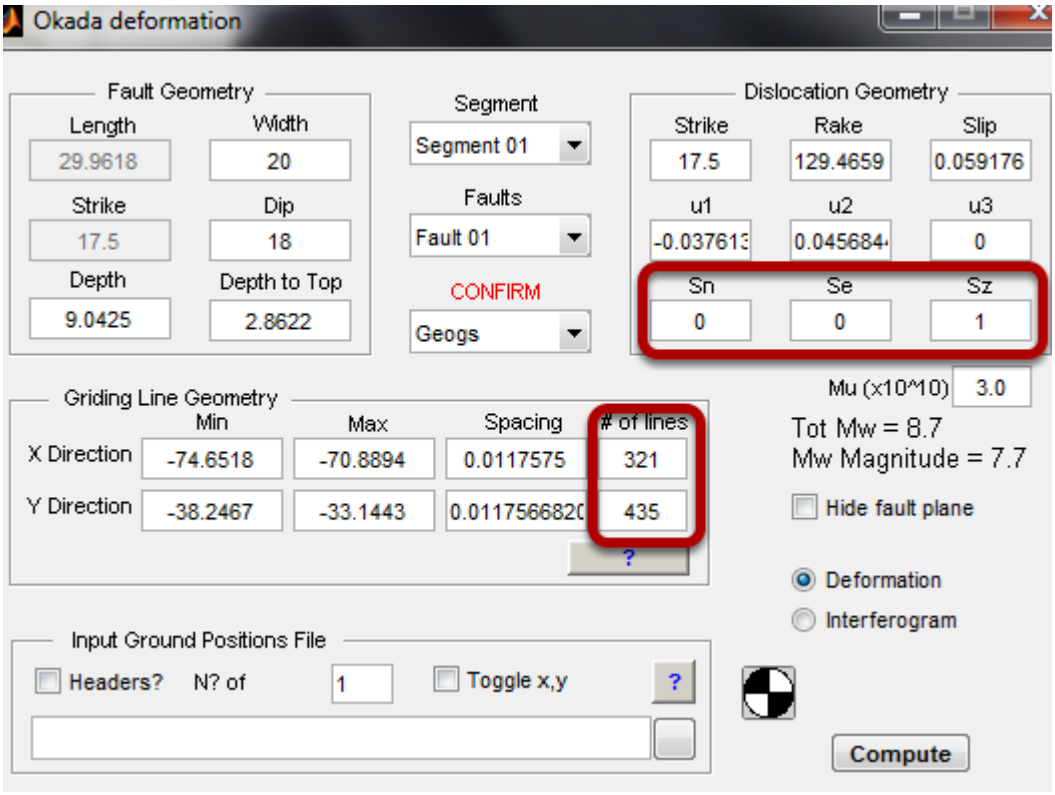
Hit the browse button and load the file

File is loaded



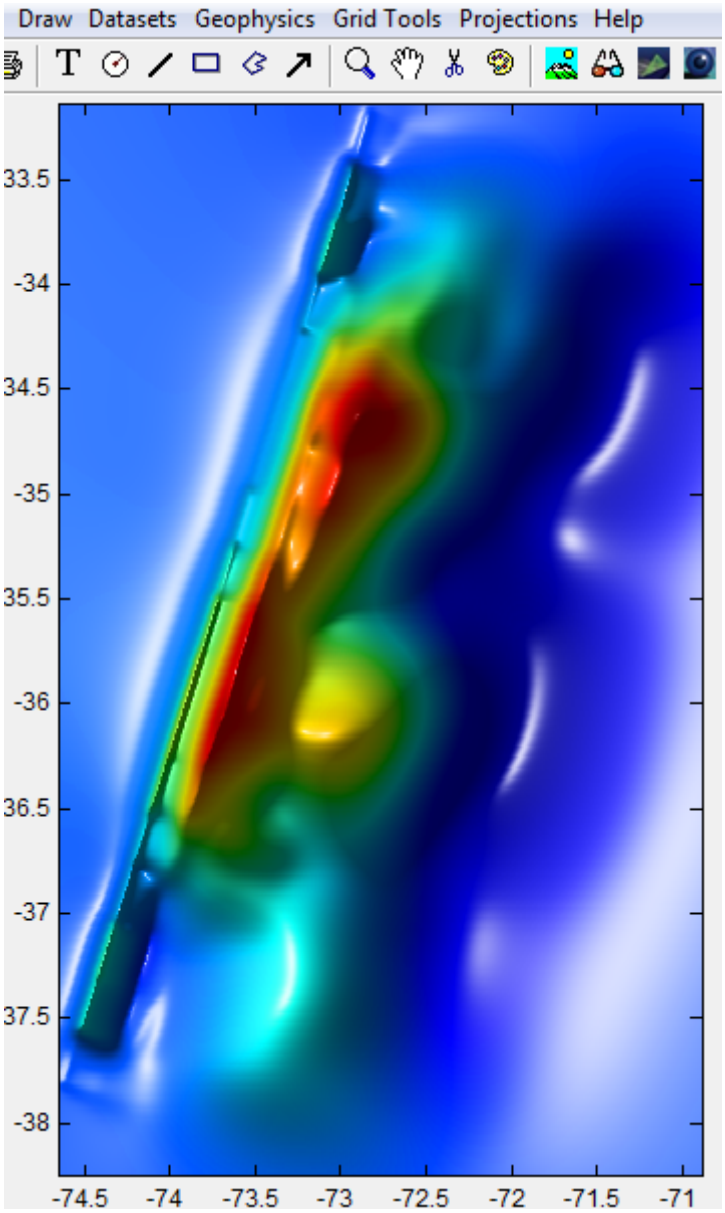
Colors represent the magnitude of the slip along the fault plane. Now right-click on any of the rectangles and select the **Okada** option

The 3 components control figure



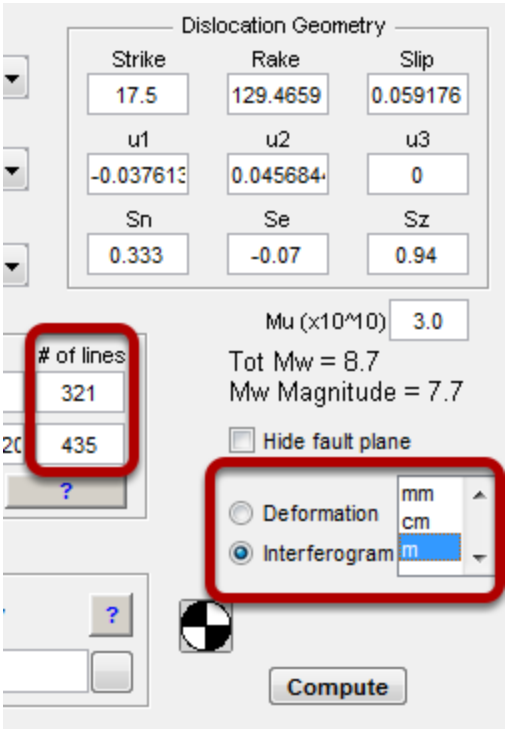
Edit the *Sn, Se, Sz* boxes to have the values as displayed. By doing this we are selecting to compute only the vertical component of deformation. Later on we will let the default values to calculate a synthetic interferogram. Edit also the **# of lines** boxes to reduce the resolution of the final grid (this takes a bit to compute). Hit **Compute**.

Shaded illuminated vertical component of deformation



And there we have our solution. Next we will compute the synthetic interferogram. For that we need to get back to step 3 and NOT change the *Sn, Se, Sz* boxes.

Compute the interferogram



As before, change the **# of lines** boxes and select **Interferogram** and **m** (meters), and ... **Compute**

The Interferogram