Compute seismic elastic deformation

Open a file that will define the region over which deformation will be computed
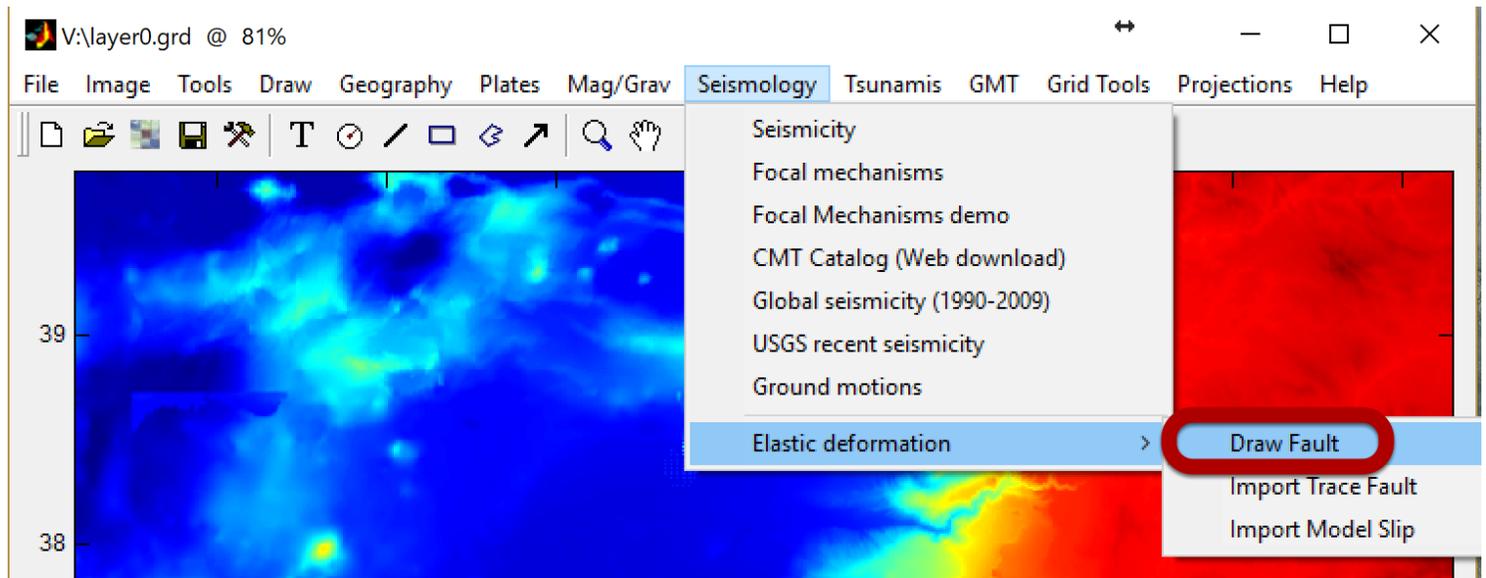
Select "Seismology -> Elastic deformation -> Draw Fault" and draw a line segment.

Plot fault's trace
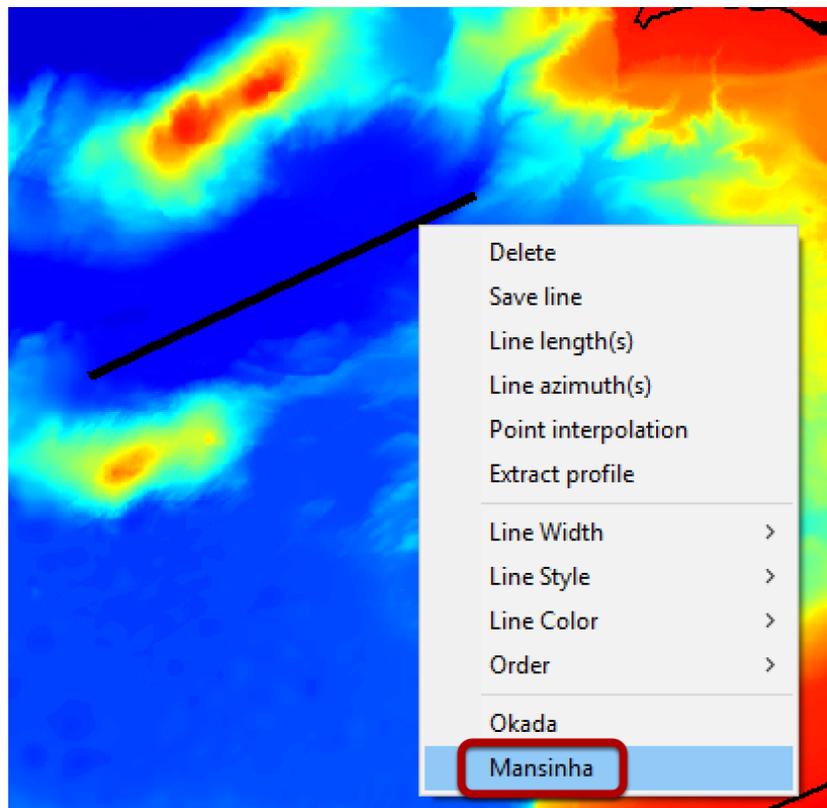
Right-click on the just plotted line and select "Mansinha"
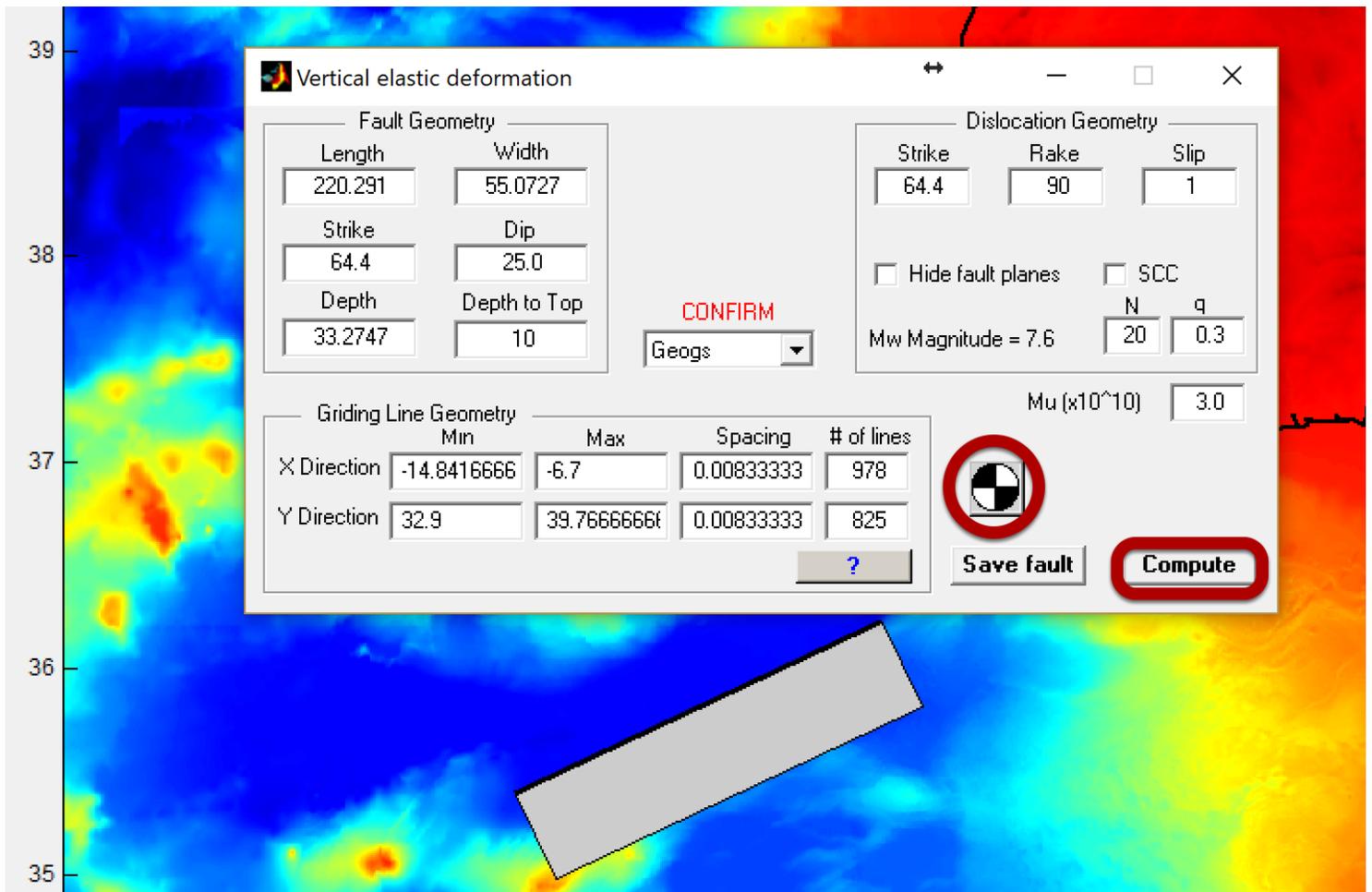
Figure shows default parameters. Fault length and strike is fixed and reflects the length of the plotted line. Hit the **Compute** button to get the vertical deformation's vertical component.
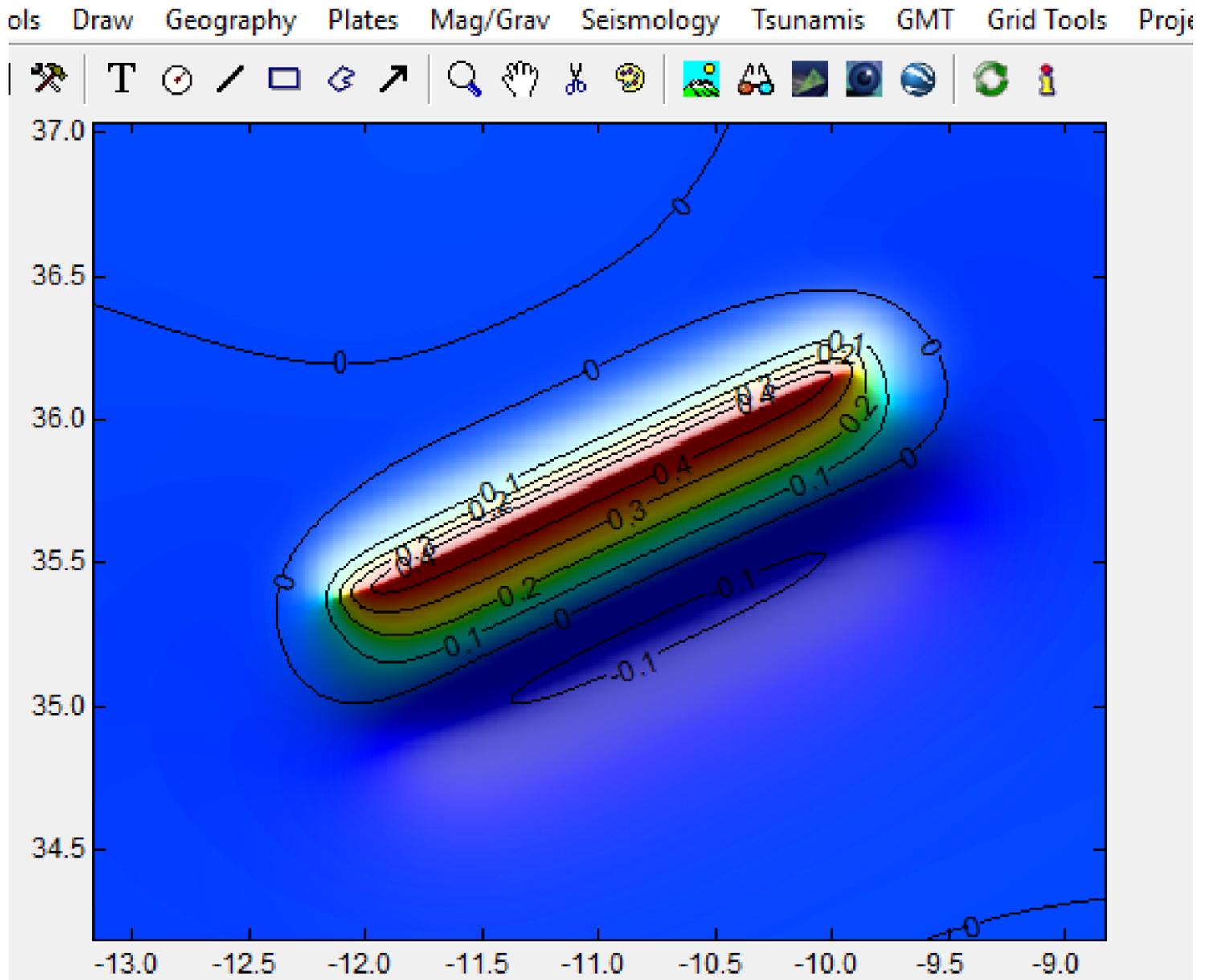
Contour lines show the amount of vertical deformation in meters

See the "Beach ball" of this earthquake

Focal Meca Studio — □ ✕

	Strike	64.4
◄	Dip	25
◄	Rake	90
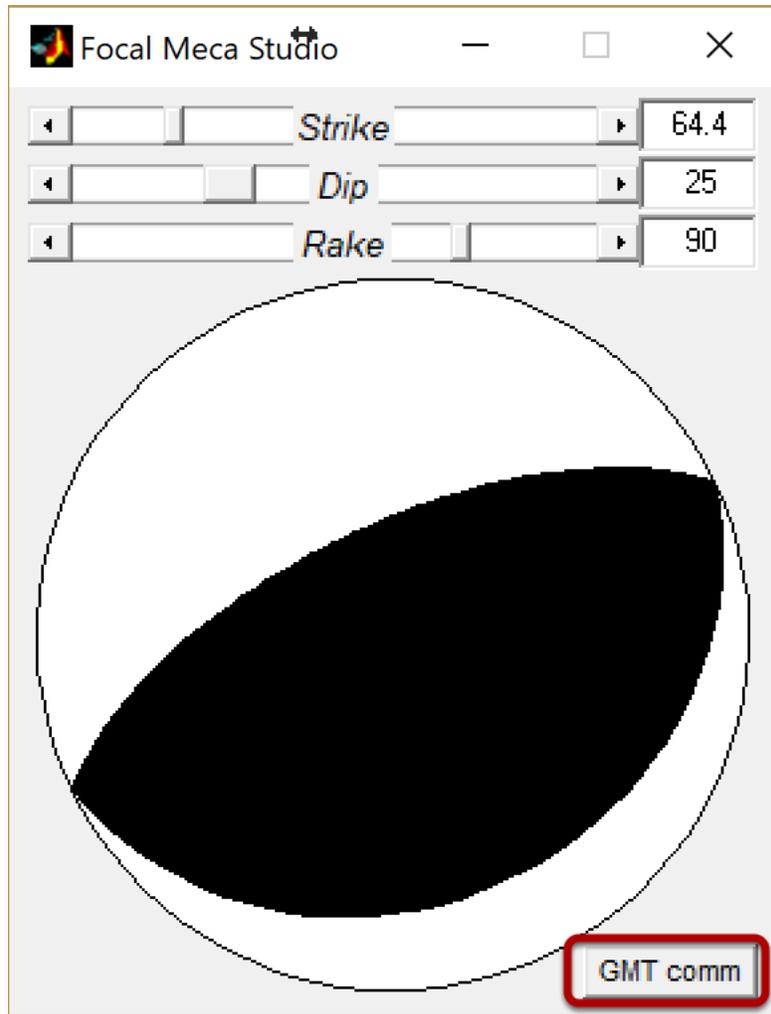
GMT comm

On the "Mansinha" window click the button with the strike slip mechanism next to the **Compute** button. If you want to plot this mechanism in GMT, Hit the **GMT comm** button. The command line is shown in next figure.

Psmeca command to plot the focal mechanism in GMT

GMT command

Example psmeca command

echo 0.0 0.0 0.0 42.6 25 90 5 0 0 | psmeca -Sa2.5c –Gblack -R-1/1/-1/1 –JM8c -P –B0 > this_meca.ps

OK   Cancel