

Interpreting Data Activity

A hand holding a blue pen is writing on a piece of lined paper. The paper has a red scribble and the word '2000' written vertically. In the background, a map of Chile is visible.

Earthquake in Chile

February 27th 2010

Chile is located in an Earthquake Zone. The country sits on the South American continental plate and its western coastline is near where the South American and Nazca Plates meet.

At 3:34, local time, on February 27th 2010 the Maule / Bio-Bio regions of Chile experienced a very strong earthquake.

During the following 3 hours there were 11 aftershocks of varying magnitude.

Chile registered a total of 117 earthquake events throughout the country within a 48 hour period. Of this amount 86 were in the Bio-Bio / Maule region.

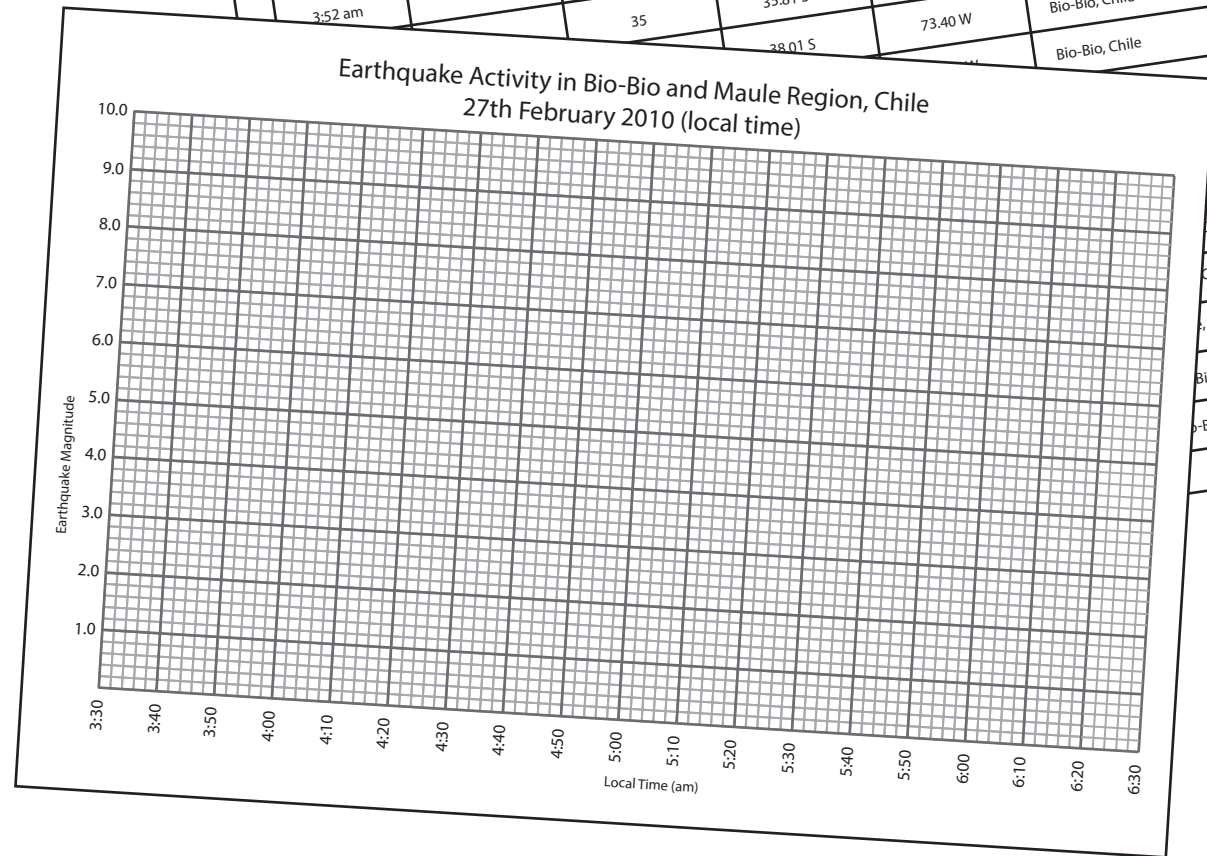


Print a copy of the two Studyladder worksheets for Earthquake Activity in Maule / Bio-Bio Regions, Chile. (Also shown on the next slides.)

- 1) table of information
- 2) graphing activity worksheet.

Earthquake Activity in Maule / Bio-Bio Regions, Chile: 27th February 2010

Local Time	Magnitude	Depth in km	Latitude	Longitude	Region
3:34 am	8.8	30	35.89 S	73.04 W	Off Shore Maule, Chile
3:52 am	6.2	30	34.78 S	72.61 W	Off Shore Maule, Chile
		35	35.81 S	72.94 W	Off Shore Maule, Chile
			38.01 S	73.40 W	Bio-Bio, Chile
					Bio-Bio, Chile



Use the information in the table to plot the magnitudes of earthquakes on the graphing activity worksheet.

Earthquake Activity in Maule / Bio-Bio Regions, Chile: 27th February 2010

Local Time	Magnitude	Depth in km	Latitude	Longitude	Region
3:34 am	8.8	30	35.89 S	73.04 W	Off Shore Maule, Chile
3:52 am	6.2	30	34.78 S	72.61 W	Off Shore Maule, Chile
4:19 am	5.4	35	35.81 S	72.94 W	Off Shore Maule, Chile
4:33 am	5.6	30	38.01 S	73.40 W	Bio-Bio, Chile
4:37 am	6.0	32	36.85 S	72.86 W	Bio-Bio, Chile
4:46 am	5.4	35	36.79 S	72.92 W	Bio-Bio, Chile
4:51 am	5.4	35	36.40 S	72.50 W	Bio-Bio, Chile
4:56 am	5.2	35	36.93 S	73.24 W	Off Shore Bio-Bio, Chile
5:01 am	6.9	30	37.84 S	75.14 W	Off Coast Bio-Bio, Chile
5:25 am	6.1	30	34.67 S	72.47 W	Off Shore Maule, Chile
5:31 am	5.6	40	34.85 S	72.50 W	Off Shore Maule, Chile
6:21 am	5.3	30	36.59 S	73.21 W	Off Shore Bio-Bio, Chile
6:59 am	5.9	30	38.06 S	73.79 W	Off Shore Bio-Bio, Chile

*** Use the Information on the table in the previous slide to chart the magnitude of tremors during the three hours following the earthquake in Chile***

Earthquake Activity in Bio-Bio and Maule Region, Chile 27th February 2010 (local time)

