

**Kuril survey, *continued***

(Urup, Simushir, Ketoy) there is a great excess over the calculated data.

Survey results of Central Kuril Island coasts (maximum run-ups) are as follows:

- Urup Island- 6 meters;
- Ketoy Island- 8-10 meters;
- Simushir Island- more than 10-15 meters.

This is preliminary information. At present data is being processed. The obtained data are extremely important not only for scientific researches with the purpose of studying the nature of tsunami (including mechanisms of wave generation and propagation, evidence along coasta) but also for Tsunami Warning Systems.



*Simushir Island, Spaseniya Bay, Pacific coast. The float found in alder bushes, a distance some hundred meters from the coast. Right, Simushir Island, Mil'na Bay, Okhotsk coast, evidence of tsunami. All photos courtesy of T. Ivelskaya.*



*Simushir Island, Dushnaya Bay, Pacific coast. A blockage of logs found in a branch of the river.*



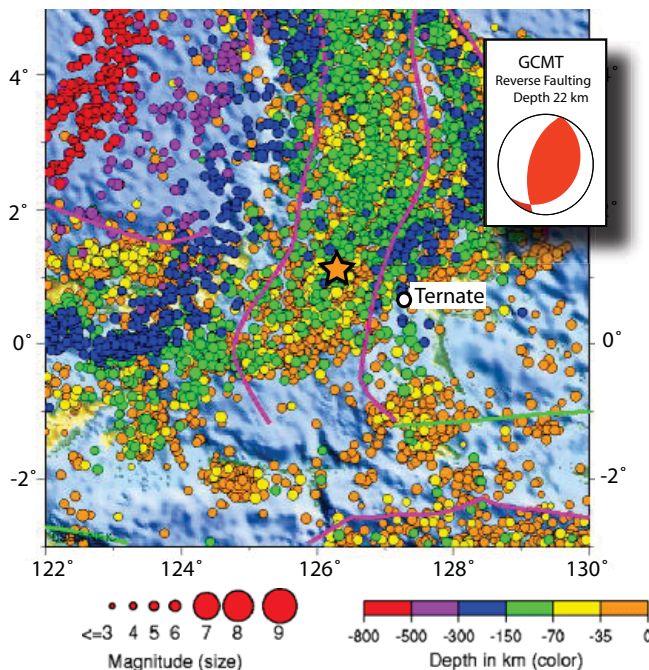
### Northern Molucca Sea, 21 January 2007, 11: 28 UTC, $M_w=7.5$

An earthquake occurred on 21 January 2007 measuring  $M_w 7.5$  (G) at 11:28 UTC, approximately 125 km (80 miles) from Ternate, Moluccas, Indonesia. Tsunami bulletins were issued by PTWC and the Northwest Pacific Tsunami Advisory, that a local destructive tsunami was possible following an earthquake of this magnitude.

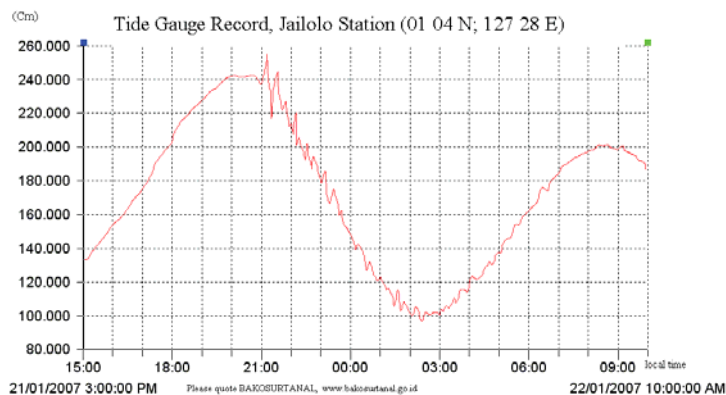
One person died of a heart attack, 3 others killed, 4 others injured and minor damage to some buildings at Mandano, Sulawesi, Indonesia. Felt (VI) on Ternate; (VI) at Bitung and Tondano, (V) at Kotamobagu, (IV) at Gorontalo, Sulawesi; (IV) in southern Halmahera, Indonesia.

Reports were later verified that a very small tsunami did occur and that several people were swept out to sea by the wave.

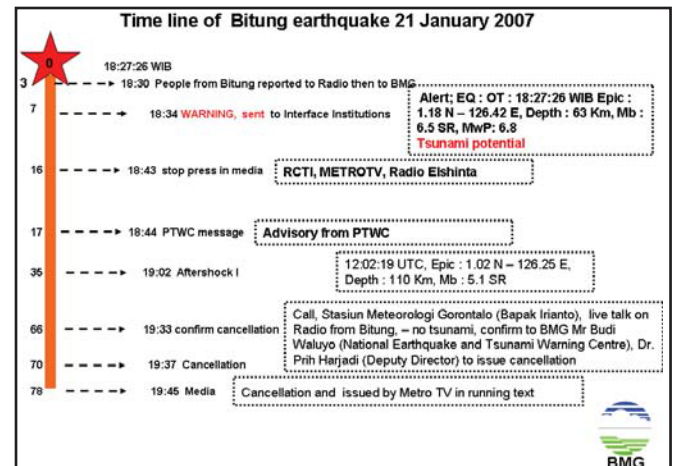
*Right: Map of historical seismicity in the area of the epicenter (yellow star) from 1990 to the present. Global Centroid Moment Tensor (GCMT) shows seismic analysis of the earthquake. Map courtesy of the USGS National Earthquake Information Center (NEIC).*





Molucca, *continued*

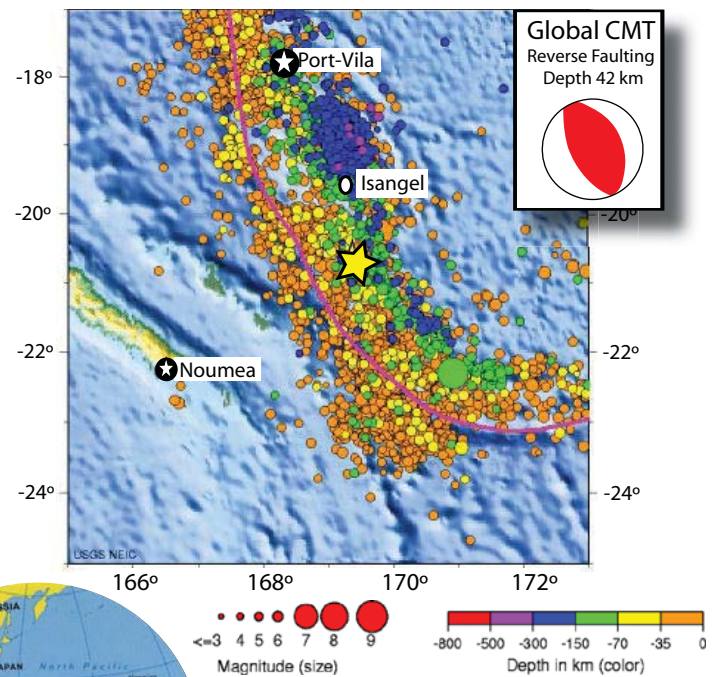
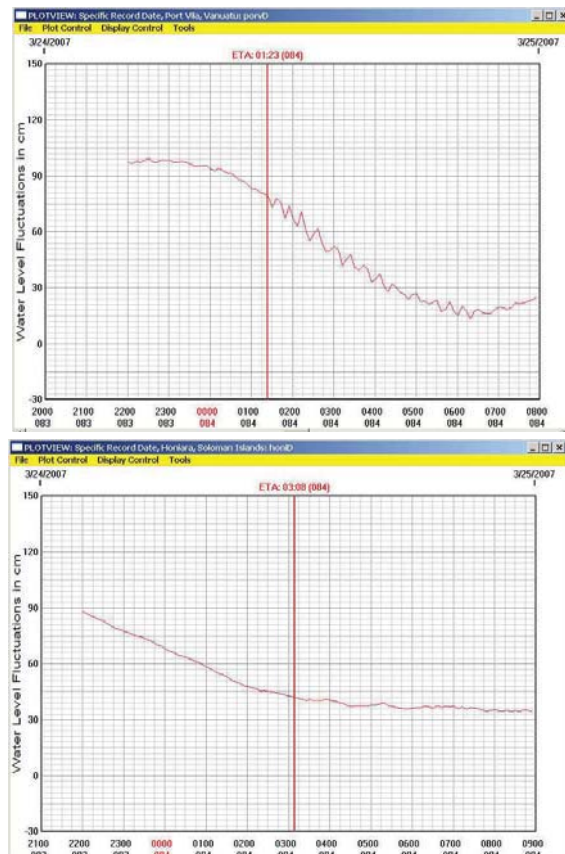
Sea level record from Jailolo station, Indonesia. Courtesy of Indonesia's Meteorological and Geophysical Agency (BMG).



Timeline from BMG showing the series of messages and actions associated with the 21 January earthquake and tsunami in the Molucca Sea. From a BMG presentation slideshow..

Vanuatu, 25 March 2007 00:40 UTC,  $M_W = 7.1$ 

A major earthquake, measuring 7.1  $M_W$  (USGS) occurred 120 km (75 miles) south of Isangel, Tanna, Vanuatu at 00:40 UTC, 25 March 2007, which was 11:40 am, local time. The earthquake was felt (III, on the Modified Mercalli Intensity Scale) at Port Vila, Vanuatu and Mont-Dore, New Caledonia. Also felt at Noumea and Yate, New Caledonia. There were no reports of damage, but a tsunami measuring 16 cm, peak to trough, was recorded at Port Vila, Vanuatu and 4 cm peak to trough measurement was made at Honiera, in the Solomon Islands.



Location of epicenter:

20.617° S  
169.357° E

Above: Map of historical seismicity in the area of the epicenter (yellow star) from 1990 to the present. Global Centroid Moment Tensor (GCMT) shows seismic analysis of the earthquake. Map courtesy of the USGS National Earthquake Information Center (NEIC). Globe shows more general location in the Southwest Pacific

Sea level records received from postings on the WC/ATWC website: <http://wcatwc.arh.noaa.gov/previous.events/03-25-07-Vanuatu/03-25-07Vanuatu.html>, showing the indications of a tsunami at sea level stations Port Vila (top) and Honiera, Solomon Islands (bottom).