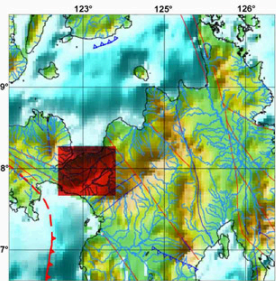


TSUNAMI HAZARD MAP

Lanao del Norte Province



Legend:

- Tsunami Inundation Area
- 3 m Tsunami Wave Height at Coastline

Earthquake Parameters Used in Modeling:

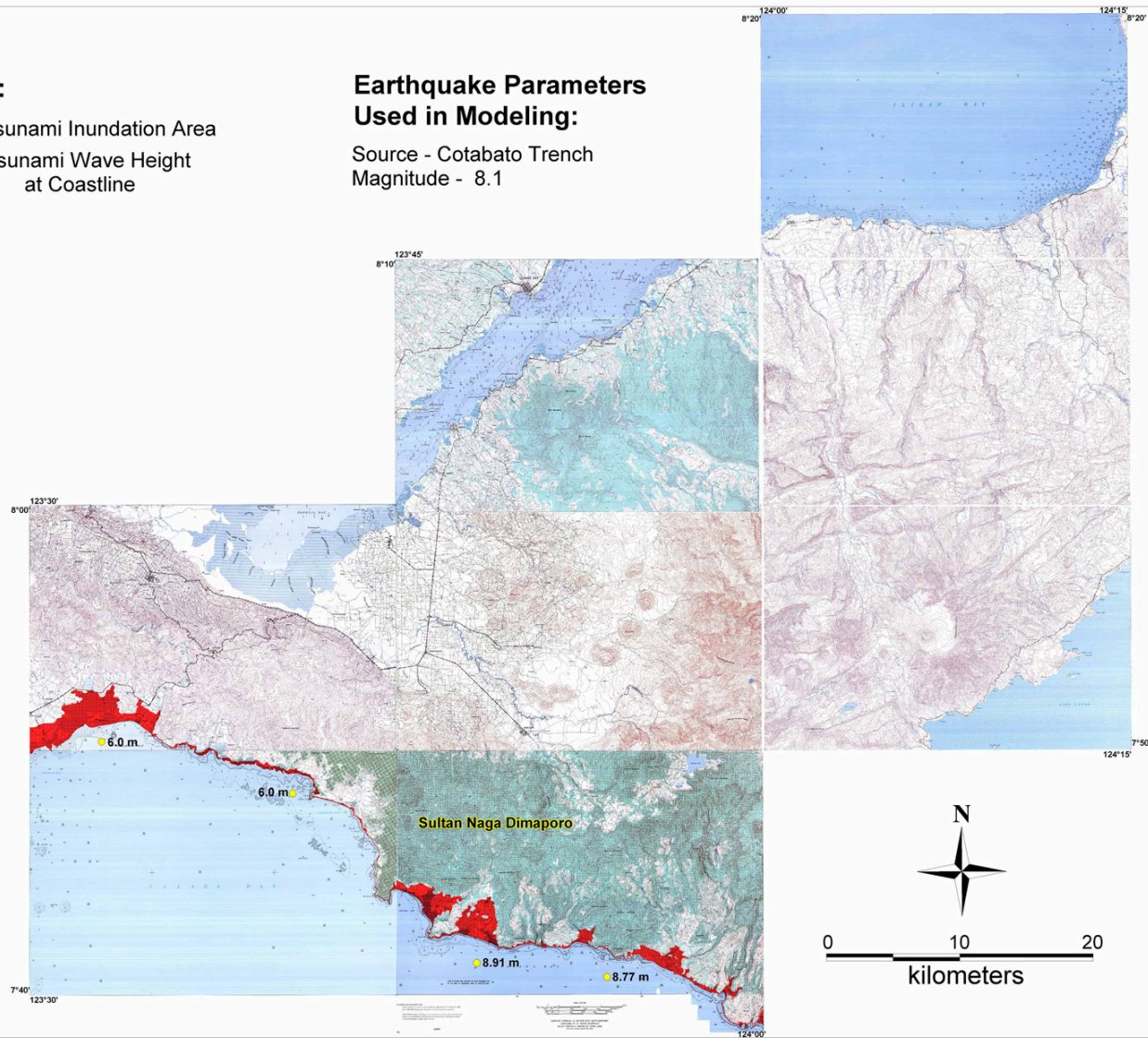
Source - Cotabato Trench
Magnitude - 8.1

Data Source:

Modeling results using REDAS Software based on empirical equations of Abe (1989), Hall and Watt (1953), Prist (1995), and Hills and Mader (1999)

Far-shore bathymetry data from ETOPO2 (2001, NOAA-NGDC)
Modern Global Seismology, T. Lay and T.C. Wallace, 1995
The Moro Gulf Tsunami of 17 August 1976, V.L. Badillo and Z. C. Astilla, Manila Observatory, 1978
Interviews of Tsunami Eyewitnesses of the Moro Gulf Earthquake

1:50,000 topographic map (Mt. Iniaosan Sheet - 3743 II, Caromatan Sheet - 3743 III, Aurora Sheet - 3743 IV, Buriasan Sheet - 3743 I, Ozamis City Sheet - 3744 II, Iligan Sheet - 3844 IV, Mumungan Sheet - 3844 III, Uato Sheet - 3843 IV; 1993-reprint, NAMRIA)



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Explanation:

This indicative map is based on maximum computed wave height and inundation using worst case scenario earthquakes from major offshore source zones. The indicated wave height decreases away from the shoreline.