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# Modelling of Rakhine Coast, Myanmar

Myanmar has long coastal areas and need to set up ocean observation systems. Department of Meteorology and Hydrology set up sea level observation stations at along the coastal areas of Myanmar and also monitoring the disaster including the tsunami disaster. Myanmar have been suffered many times of earthquake disasters and four times of tsunami by known the historical data. The purpose of this study is to estimate the tsunami arrival time and maximum tsunami wave amplitude for Rakhine coast of Myanmar by TUNAMI F1 model. In this study, I calculating the tsunami arrival time and maximum tsunami wave amplitude based on a tsunamigenic earthquake source of moment magnitude 8.5 in the Arakan subduction zone off the west-coast of Myanmar and selecting eight outpoints of Rakhine coast by TUNAMI F1 model. The model result indicated that the tsunami waves would first hit the Kyaukpyu of Rakhine coast about 0.05 minutes after generate the earthquake of moment magnitude 8.5 and the maximum tsunami wave amplitude was 2.37 meters.

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