

KAJIAN MITIGASI DAN KESIAPSIAGAAN BENCANA TSUNAMI DI KOTA BENGKULU

Yudi Irawan

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ABSTRACT

Bengkulu City is located at western coastal of Sumatera which is a vulnerable region in term of tsunami disaster due to tectonic earthquake that causes dislocation of geological datum under the ocean. Impact of tsunami disaster at Bengkulu City could be more magnificent in line with the increasing growth of population residing along the coastal zone, low level of preparedness and community awareness in responding to disaster and lack of mitigation efforts on the government site. Non structural mitigation efforts such as setting up tsunami risk map, capacity building both on community and government officers to cope with tsunami disaster by being alert is then necessary to reduce enormous damage and the lost of many lives in Bengkulu City.

This research was carried out by estimating flood areas with various height of tsunami run up ranging from 2 – 14 meters to know flood areas. Evacuation road map to the evacuation points was set up based on estimated flooding areas and identified safeguard points. Analytical method applied in setting up the map of inundation areas and the road map for evacuation to the evacuation points were analyzed by overlay using ArcView GIS program version 3.3. Preparedness level of both community and government officers of Bengkulu City toward potential threat of tsunami disaster were understood by questionnaires that analyzed with Index Analysis.

Result showed that tsunami flooding areas could reach up to 42.59% for the region of Teluk Segara Sub District, 26.58% for region of Ratu Samban Sub District, and 26.42% for Ratu Agung Sub District. Preparedness level of communities upon tsunami disaster categorized as not ready yet with an index value of 23.96% and preparedness level of government officers as less prepared category with index value of 53.75%. Government of Bengkulu City should perform several strategic mitigation effort and increasing preparedness toward disaster particularly tsunami by the proportionate constitutions, institutional strengthening of disaster mitigation implementing body, budget increase, information dissemination and training and education regarding disaster to the whole communities and government officers.

Key words: *Tsunami, Mitigation, Preparedness.*