

Kerentanan wilayah terhadap tsunami di pantai Ujunggenteng Kabupaten, Sukabumi, Jawa Barat = Vulnerability of tsunami in coastal areas Ujunggenteng, Sukabumi, West Java

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Abstrak

Wilayah pesisir selatan Pulau Jawa memiliki potensi ancaman gelombang tsunami akibat gempa tektonik termasuk Pantai Ujunggenteng yang terletak di pantai selatan Kabupaten Sukabumi. Tingkat Kerentanan wilayah terhadap tsunami di Pantai Ujunggenteng dikaji berdasarkan aspek keterpaparan, sensitivitas, dan ketahanan melalui penerapan metode Analytical Hierarchy Process (AHP) dikombinasikan dengan analisis spasial berbasis grid serta dilakukan verifikasi lapangan pada 37 titik survei. Kerentanan wilayah terhadap tsunami di daerah penelitian menggunakan metode AHP didominasi oleh kelas kerentanan tinggi.

Kerentanan wilayah tinggi terdapat pada sepanjang pesisir pantai bagian selatan dan beberapa di pesisir pantai barat daerah penelitian dengan jumlah grid 414 atau berkisar 73% dari seluruh jumlah grid.

Kerentanan wilayah sedang terdapat pada bagian tengah, timur dan beberapa di pesisir barat daerah penelitian dengan jumlah grid 123 atau berkisar 22% dari seluruh jumlah grid. Sedangkan kerentanan wilayah rendah terdapat dibagian utara dan beberapa di tengah daerah penelitian dengan jumlah grid 27 atau berkisar 5% dari seluruh jumlah grid.

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Java's southern coastal areas have potential threat of a tsunami caused by tectonic earthquake including Ujunggenteng beach located in the south coast of Sukabumi. The vulnerability levels of the region to the tsunami in Ujunggenteng beach are assessed based on aspects of exposure, sensitivity and resilience through the application of Analytical Hierarchy Process (AHP) combined with grid-based spatial analysis and verification from field surveys at 37 points. The vulnerability of the region to tsunami in study area with AHP method is dominated by high vulnerability class. There are areas of high vulnerability in the western part along the coast and southern coast area of study with number of grids 414 or about 73% of the total grid. The moderate vulnerability of the region is located on the central, eastern and some western part of coastal in the study areas with 123 grids or about 22% of the total grid. While there is a lower susceptibility region in the north and some in the middle of the study area with the number of grids are 27, or about 5% of the total grid.