

Wilayah kerentanan terhadap gempa bumi di Kabupaten Pandeglang bagian barat : studi kasus sebagian Kecamatan Cigeulis, Cimanggu dan Sumur = Vulnerability region to earthquake in the west Pandeglang regency : case studies part of Cigeulis, Cimanggu, and Sumur district

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Abstrak

ABSTRAK

Untuk melakukan mitigasi bencana gempa bumi di Kabupaten Pandeglang, wilayah rawan gempa bumi dan wilayah kerentanan terhadap gempa bumi perlu ditentukan. Wilayah rawan gempa bumi Kabupaten Pandeglang ditentukan oleh nilai PGA (Peak Ground Acceleration), struktur geologi, litologi dan kemiringan lereng melalui sistem skoring. Setelah diketahui wilayah rawan gempa bumi maka diidentifikasi grid yang mewakili wilayah tersebut sebagai daerah penelitian. Identifikasi rawan gempa bumi, kepadatan dan kualitas bangunan pada permukiman daerah penelitian dilakukan melalui sistem grid dan survei lapangan. Dengan menganalisis rawan gempa bumi, kepadatan dan kualitas bangunan maka dihasilkan wilayah kerentanan terhadap gempa bumi di Kabupaten Pandeglang bagian barat (studi kasus sebagian Kecamatan Cigeulis, Cimanggu dan Sumur). Wilayah kerentanan tinggi terhadap gempa bumi terletak pada permukiman Desa Sumberjaya Kecamatan Sumur. Wilayah kerentanan sedang terletak pada permukiman Desa Cimanggu dan Tangkilsari Kecamatan Cimanggu. Sedangkan wilayah kerentanan rendah terletak pada permukiman Desa Tangkilsari Kecamatan Cimanggu, Desa Kertajaya dan Kertamukti Kecamatan Sumur.

ABSTRACT

To mitigate damage from earthquake disaster in Pandeglang Regency, earthquake hazard region and vulnerability region to earthquake has to determined. Earthquake hazard region in Pandeglang Regency is determined by the value of PGA (Peak Ground Acceleration), geological structure, lithology and slope. To determine the hazard earthquake region, scoring method is used. After determine earthquake hazard region, grid which represents the earthquake hazard region is identified. The grid is research's area. Earthquake hazard, density and quality of construction in settlements of research's area are identified by grid system and survey. Vulnerability region to earthquake in the west Pandeglang Regency (case studies : part of Cigeulis, Cimanggu and Sumur District) is determined by analyzed earthquake hazard, density and quality of construction. High vulnerability region to earthquake is located in settlements of Sumberjaya Village Sumur District. Moderate vulnerability region to earthquake is located in settlements of Cimanggu and Tangkilsari Village Cimanggu District. Low vulnerability region to earthquake is located in settlements of Tangkilsari Village Cimanggu District, Kertajaya and Kertamukti Village Sumur District.