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Author: Keyword:

Search

[ADVANCED](#)
[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

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ASSESSMENT OF SEISMIC HAZARD AND MICROZONING IN THE PHILIPPINES

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Seismic hazard and microzoning of the Philippines are presented. Seismic hazard analysis of the Philippines on rock-surface level is done to all land areas of the country. The analysis includes both the historical earthquake occurrences and active fault data. Ground motion amplification corrections based on surface geology is determined based on the representative soil softness index of each geology type. The resulting amplification corrections are applied to the rock-surface seismic hazard of the Philippines. A significant increase of seismic hazard by applying the amplification corrections is shown for the city of Manila.

Key Words: seismic hazard, hazard-consistent ground motion simulation, soil amplification factor

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