A FULLY VALIDATED TSUNAMI VULNERABILITY ASSESSMENT MODEL (THE "PTVAM" MODEL)

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ABSTRACT

The "PTVAM" tsunami vulnerability assessment model (Papathoma and Dominey-Howes, 2003; Papathoma *et al*., 2003), like all models, requires validation. We use the results from post-tsunami surveys in the Maldives following the December 26, 2004 Indian Ocean tsunami to 'evaluate' the appropriateness of the PTVAM attributes to understanding spatial and temporal vulnerability to tsunami damage and loss. We find that some of the PTVAM attributes are significantly important and others moderately important to understanding and assessing vulnerability. Some attributes require further investigation. Based upon the ground-truth data, we make several modifications to the model framework and propose a revised version (a fully validated) of the PTVAM (PTVAM 2).