



Submarine landslides in the Indonesian Sunda Arc: size, distribution and tsunami hazard

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Many Indonesian islands are prone to earthquake-generated tsunamis, but the triggering of submarine landslides can induce additional, strongly localized tsunamis. Here we investigate the landslide distribution along the Sunda Arc searching for areas of increased activity of underwater landslides. We thereby summarize available literature and review properties of landslides that were identified in bathymetric and seismic data. Finally we depict mass movements that were found in newly available bathymetry. The largest events are located in the easternmost region of the Sunda Margin, near Sumbawa and Sumba Island, while landslides off Sumatra are comparably small. We discuss possible reasons for this distribution by comparing geologic and tectonic properties at the Sumatra Trench and the Java Trench.