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Large Subduction Earthquakes and Tsunamigenesis

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editor

Dear colleagues,

The largest earthquakes generally occur along the subduction zones, often generating transoceanic tsunamis whose impact is devastating, mainly for the coastal regions close to the epicenter. Several of these seismic events have occurred in the last 15 years (for example, the Mw9.2 2004 Sumatra-Andaman, the Mw9.1 2011 Tohoku); furthermore, a huge amount of available data has triggered a paradigm shift (in terms of data and methodologies) in the study of large earthquakes (tsunamigenic or not), in the design of early-warning systems, and in the development of new methodologies for the estimation of tsunami hazard in view of the risk mitigation.

This Special Issue “Large Subduction Earthquakes and Tsunamigenesis” aims to highlight what we have learned so far on the mechanisms of generation of large subduction earthquakes and tsunamis, issues that are still ongoing, the critical issues and the major challenges in understanding these phenomena, and the impact that these events have on society.

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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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