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# **Seismogenic and Tsunamigenic Processes in Shallow Subduction Zones**

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**Birkhäuser**

# Seismo And Tsunamigenic Processes In Shallow Subduction Zones Pageoph Topical Volumes

**Mike Jess**



## **Seismo And Tsunamigenic Processes In Shallow Subduction Zones Pageoph Topical Volumes:**

Seismogenic and Tsunamigenic Processes in Shallow Subduction Zones Jeanne Sauber, Renata Dmowska, 2012-12-06 Earthquakes in shallow subduction zones account for the greatest part of seismic energy release in the Earth and often cause significant damage in some cases they are accompanied by devastating tsunamis Understanding the physics of seismogenic and tsunamigenic processes in such zones continues to be a challenging focus of ongoing research The seismologic and geodetic work reported in this volume highlights the recent advances made toward quantifying and understanding the role of shallow plate coupling in the earthquake generation process The relation between regional seismotectonics features in the downgoing plate and the slip distribution in earthquakes are examined for recent and great historical events In addition to papers reporting new results review articles on tsunami and tsunamigenic earthquakes and depth dependent plate interface properties are presented These observational results along with complementary laboratory and theoretical studies can assist in assessing the seismic potential of a given region *Seismogenic and Tsunamigenic Processes in Shallow Subduction Zones* Jeanne Sauber, Renata Dmowska, 1999 *Special Issue* Jeanne Sauber, Renata Dmowska, 1999 Shallow Subduction Zones: Seismicity, Mechanics and Seismic Potential DMOWSKA, ECKSTRÖM, 1993-10-01 Reprint from Pure and Applied Geophysics PAGEOPH Volume 140 1993 No 2 *Subduction Zones Part II* Larry J. Ruff, H. Kanamori, 2012-12-06 Subduction zones consume oceanic lithosphere and are an indispensable part of plate tectonics Unlike the oceanic lithosphere production system which can be linked as a nearly continuous albeit sinuous strand around the earth subduction zones are a rather dissociated group and are found in several isolated corners of the world While plate tectonics can predict that subduction zones are required along certain plate boundaries it does not stipulate how subduction zones initiate and develop The preservation of newly created oceanic lithosphere and the propensity for spreading centers to fragment continents leaves a wealth of geological information on the initiation and evolution of spreading On the other hand the subject of subduction initiation has little observational basis To find such observations we need to look at some muddled tectonic regimes The Macquarie Ridge complex presents a natural laboratory for studies of subduction initiation 2 Tectonics of the Macquarie Ridge Complex The Macquarie Ridge complex is a complicated physiographic feature that trends approximately north south between South Island New Zealand and the Pacific Antarctica spreading center This feature consists of a sequence of troughs and ridges with Macquarie Island as the only exposed expression The seismically active Macquarie Ridge complex hereafter MRC is crudely continuous with the Tonga Kermadec New Zealand seismic activity The basic physiographic features and seismicity of the MRC are shown in Figure 1 The earthquake epicenters generally cluster about the bathymetric expression of the MRC *Subduction Zone Geodynamics* Serge Lallemant, Francesca Funiciello, 2009-02-11 Subduction is a major process that plays a first order role in the dynamics of the Earth The sinking of cold lithosphere into the mantle is thought by many authors to be the most important source of energy for plates driving forces It also deeply modifies the

thermal and chemical structure of the mantle producing arc volcanism and is responsible for the release of most of the seismic energy on Earth. There have been considerable achievements done during the past decades regarding the complex interactions between the various processes acting in subduction zones. This volume contains a collection of contributions that were presented in June 2007 in Montpellier, France, during a conference that gave a state-of-the-art panorama and discussed the perspectives about Subduction Zone Geodynamics. The papers included in this special volume offer a unique multidisciplinary picture of the recent research on subduction zones geodynamics. They are organized into five main topics: Subduction zone geodynamics, Seismic tomography and anisotropy, Great subduction zone earthquakes, Seismogenic zone characterization, and Continental and ridge subduction processes. Each of the 13 papers collected in the present volume is primarily concerned with one of these topics. However, it is important to highlight that papers always treat more than one topic so that all are related, lighting on different aspects of the complex and fascinating subduction zones geodynamics.

Shallow subduction zones Renata Dmowska, **Shallow Subduction Zones** Renata Dmowska, Göran Ekström, 1993

*The Seismogenic Zone of Subduction Thrust Faults* Timothy H. Dixon, J. Casey Moore, 2007. Subduction zones, one of the three types of plate boundaries, return Earth's surface to its deep interior. Because subduction zones are gently inclined at shallow depths and depress Earth's temperature gradient, they have the largest seismogenic area of any plate boundary. Consequently, subduction zones generate Earth's largest earthquakes and most destructive tsunamis. As tragically demonstrated by the Sumatra earthquake and tsunami of December 2004, these events often impact densely populated coastal areas and cause large numbers of fatalities. While scientists have a general understanding of the seismogenic zone, many critical details remain obscure. This volume attempts to answer such fundamental concerns as why some interplate subduction earthquakes are relatively modest in rupture length (greater than 100 km) while others such as the great M<sub>9</sub> greater than 9 1960 Chile, 1964 Alaska, and 2004 Sumatra events rupture along 1000 km or more. Contributors also address why certain subduction zones are fully locked, accumulating elastic strain at essentially the full plate convergence rate, while others appear to be only partially coupled or even freely slipping, whether these locking patterns persist through the seismic cycle, and what is the role of sediments and fluids on the incoming plate. Nineteen papers, written by experts in a variety of fields, review the most current lab, field, and theoretical research on the origins and mechanics of subduction zone earthquakes and suggest further areas of exploration. They consider the composition of incoming plates, laboratory studies concerning sediment evolution during subduction, and fault frictional properties, seismic and geodetic studies, and regional scale deformation. The forces behind subduction zone earthquakes are of increasing environmental and societal importance.

*Subduction Dynamics* Gabriele Morra, David A. Yuen, Scott D. King, Sang Mook Lee, Seth Stein, 2015-10-20 **Shallow Thrust and Outer Rise Earthquakes in Northwestern Pacific Subduction Zones and Their Role in Subduction Zone Water Budgets with Special Focus on the Mariana Islands** Erica L. Emry, 2012. This dissertation utilizes accurate

earthquake locations and focal mechanisms to examine two distinct regions within shallow subduction zones the shallow plate interface and the subduction zone trench and outer rise In particular I focus on the shallow plate interface and outer rise of the Mariana Subduction Zone and then expand the focus to examine the outer rise at other Northern and Western Pacific Subduction Zones By understanding where earthquakes occur in these regions we hope to obtain a better understanding of the cycling of water through subduction zones mineralogical changes in the presence of water and the effects of water and hydrous minerals on faulting processes within the shallow subduction zone The first project is focused on the Northern Mariana shallow plate interface and reveals that small plate interface earthquakes occur at greater depths than previously thought I show that the earthquake magnitude varies with depth which may reveal varying conditions of stress hydration structure or mineralogy along the fault For the second and third projects I focus on the subduction outer rise at this setting extensional earthquakes near the top of the bending incoming oceanic plate are thought to provide pathways for water to enter and hydrate the plate The stresses within the plate may also be impacted by locking along the subduction plate interface At the Mariana subduction zone I observe differences in stress distributions within the incoming plate between the Southern and Central regions this difference may be related to greater locking along the Southern Mariana plate interface Our results for the Northern and Western Pacific show that extensional outer rise earthquakes occur to 10 15 km within the incoming plate mantle at most subduction zones If this entire depth range is hydrated as much as 10 9 10 10 Tg Myr of water may be subducted at the Northwestern Pacific however lateral heterogeneities in outer rise faulting would result in reduced concentrations of input water

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