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Seismogenic and Tsunamigenic Processes in Shallow Subduction Zones

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Larry J. Ruff, Hiroo Kanamori



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Seismogenic and Tsunamigenic Processes in Shallow Subduction Zones Jeanne Sauber, Renata Dmowska, 1999-06 Reprint from Pure and Applied Geophysics PAGEOPH Volume 154 1999 No 3 4 **Special Issue** Jeanne Sauber, Renata Dmowska, 1999

Shallow Subduction Zones: Seismicity, Mechanics and Seismic Potential Part 1

DMOWSKA, ECKSTRÖM, 2013-11-21 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 has 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 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 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, 2015-11-02

Subduction dynamics has been actively studied through seismology mineral physics and laboratory and numerical experiments Understanding the dynamics of the subducting slab is critical to a better understanding of the primary societally relevant natural hazards emerging from our planetary interior the megathrust earthquakes and consequent tsunamis Subduction Dynamics is the result of a meeting that was held between August 19 and 22 2012 on Jeju island South Korea where about fifty researchers from East Asia North America and Europe met Chapters treat diverse topics ranging from the response of the ionosphere to earthquake and tsunamis to the origin of mid continental volcanism thousands kilometers distant from the subduction zone from the mysterious deep earthquakes triggered in the interior of the descending slabs to the detailed pattern of accretionary wedges in convergent zones from the induced mantle flow in the deep mantle to the nature of the paradigms of earthquake occurrence showing that all of them ultimately are due to the subduction process Volume highlights include Multidisciplinary research involving geology mineral physics geophysics and geodynamics Extremely large scale numerical models with state of the art high performance computing facilities

Overview of exceptional three dimensional dynamic representation of the evolution of the Earth interiors and of the earthquake and subsequent tsunami dynamics Global risk assessment strategies in predicting natural disasters This volume is a valuable contribution in earth and environmental sciences that will assist with understanding the mechanisms behind plate tectonics and predicting and mitigating future natural hazards like earthquakes volcanoes and tsunamis *Subduction Dynamics* Gabriele Morra, David A. Yuen, Scott D. King, Sang Mook Lee, Seth Stein, 2015-10-20 **Shallow Subduction Zones** Renata Dmowska, Göran Ekström, 1993 *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 *Subduction Zones* Larry J. Ruff, Hiroo Kanamori, 1989 *Shallow Subduction Zones*, 1993

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