

Subduction Dynamics

From Mantle Flow to Mega Disasters



Gabriele Morra, David A. Yuen, Scott D. King,
Sang Mook Lee and Seth Stein
Editors

Subduction Dynamics From Mantle Flow To Mega Disasters Geophysical Monograph Series

**Jennifer L. Gannon, Andrei
Swidinsky, Zhonghua Xu**



Subduction Dynamics From Mantle Flow To Mega Disasters Geophysical Monograph Series:

Subduction Dynamics Gabriele Morra, David A. Yuen, Scott D. King, Sang Mook Lee, Seth Stein, 2015-09-18 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

Carbon in Earth's Interior Craig E. Manning, Jung-Fu Lin, Wendy L. Mao, 2020-04-10 This book is Open Access A digital copy can be downloaded for free from Wiley Online Library Explores the behavior of carbon in minerals melts and fluids under extreme conditions Carbon trapped in diamonds and carbonate bearing rocks in subduction zones are examples of the continuing exchange of substantial carbon between Earth's surface and its interior However there is still much to learn about the forms transformations and movements of carbon deep inside the Earth Carbon in Earth's Interior presents recent research on the physical and chemical behavior of carbon bearing materials and serves as a reference point for future carbon science research Volume highlights include Data from mineral physics petrology geochemistry geophysics and geodynamics Research on the deep carbon cycle and carbon in magmas or fluids Dynamics structure stability and reactivity of carbon based natural materials Properties of allied substances that carry carbon Rates of chemical and physical transformations of carbon The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

Dayside Magnetosphere Interactions Qiugang Zong, Philippe Escoubet, David Sibeck, Guan Le, Hui Zhang, 2020-04-07 Exploring the processes and phenomena of Earth's dayside magnetosphere Energy and momentum transfer initially taking place at the dayside magnetopause is responsible for

a variety of phenomenon that we can measure on the ground Data obtained from observations of Earth's dayside magnetosphere increases our knowledge of the processes by which solar wind mass momentum and energy enter the magnetosphere Dayside Magnetosphere Interactions outlines the physics and processes of dayside magnetospheric phenomena the role of solar wind in generating ultra low frequency waves and solar wind magnetosphere ionosphere coupling Volume highlights include Phenomena across different temporal and spatial scales Discussions on dayside aurora plume dynamics and related dayside reconnection Results from spacecraft observations ground based observations and simulations Discoveries from the Magnetospheric Multiscale Mission and Van Allen Probes era Exploration of foreshock bow shock magnetosheath magnetopause and cusps Examination of similar processes occurring around other planets The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about this book from this Q A with the editors

Submarine Landslides Kei Ogata, Andrea Festa, Gian Andrea Pini, 2019-12-24 An examination of ancient and contemporary submarine landslides and their impact Landslides are common in every subaqueous geodynamic context from passive and active continental margins to oceanic and continental intraplate settings They pose significant threats to both offshore and coastal areas due to their frequency dimensions and terminal velocity capacity to travel great distances and ability to generate potentially destructive tsunamis Submarine Landslides Subaqueous Mass Transport Deposits from Outcrops to Seismic Profiles examines the mechanisms characteristics and impacts of submarine landslides Volume highlights include Use of different methodological approaches from geophysics to field based geology Data on submarine landslide deposits at various scales Worldwide collection of case studies from on and off shore Potential risks to human society and infrastructure Impacts on the hydrosphere atmosphere and lithosphere

Nitrogen Overload Brian G. Katz, 2020-06-16 Finalist for the 2021 PROSE Award for Environmental Science An integrated approach to understanding and mitigating the problem of excess nitrogen Human activities generate large amounts of excess nitrogen which has dramatically altered the nitrogen cycle Reactive forms of nitrogen especially nitrate and ammonia are particularly detrimental Given the magnitude of the problem there is an urgent need for information on reactive nitrogen and its effective management Nitrogen Overload Environmental Degradation Ramifications and Economic Costs presents an integrated multidisciplinary review of alterations to the nitrogen cycle over the past century and the wide ranging consequences of nitrogen based pollution especially to aquatic ecosystems and human health Volume highlights include Comprehensive background information on the nitrogen cycle Detailed description of anthropogenic nitrogen sources Review of the environmental economic and health impacts of nitrogen pollution Recommendations and strategies for reducing humanity's nitrogen footprint Discussion of national nitrogen footprints and worldwide examples of mitigation policies The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate

scientific knowledge and provide resources for researchers students and professionals Read the Editors Vox <https://eos.org/editors-vox/exploring-the-widespread-impacts-of-ongoing-nitrogen-pollution>

Dawn-Dusk Asymmetries in Planetary Plasma Environments Stein Haaland, Andrei Runov, Colin Forsyth, 2017-10-04 DawnDusk Asymmetries in Planetary Plasma Environments Dawn dusk asymmetries are ubiquitous features of the plasma environment of many of the planets in our solar system They occur when a particular process or feature is more pronounced at one side of a planet than the other For example recent observations indicate that Earth's magnetopause is thicker at dawn than at dusk Likewise auroral breakups at Earth are more likely to occur in the pre midnight than post midnight sectors Increasing availability of remotely sensed and in situ measurements of planetary ionospheres magnetospheres and their interfaces to the solar wind have revealed significant and persistent dawn dusk asymmetries As yet there is no consensus regarding the source of many of these asymmetries nor the physical mechanisms by which they are produced and maintained Volume highlights include A comprehensive and updated overview of current knowledge about dawn dusk asymmetries in the plasma environments of planets in our solar system and the mechanisms behind them Valuable contributions from internationally recognized experts covering both observations simulations and theories discussing all important aspects of dawn dusk asymmetries Space weather effects are caused by processes in space mainly the magnetotail and can be highly localized on ground Knowing where the source i e where dawn dusk location is will allow for a better prediction of where the effects on ground will be most pronounced Covering both observational and theoretical aspects of dawn dusk asymmetries *Dawn Dusk Asymmetries in Planetary Plasma Environments* will be a valuable resource for academic researchers in space physics planetary science astrophysics physics geophysics and earth science

Microstructural Geochronology Desmond E. Moser, Fernando Corfu, James R. Darling, Steven M. Reddy, Kimberly Tait, 2017-11-17 Microstructural Geochronology Geochronology techniques enable the study of geological evolution and environmental change over time This volume integrates two aspects of geochronology one based on classical methods of orientation and spatial patterns and the other on ratios of radioactive isotopes and their decay products The chapters illustrate how material science techniques are taking this field to the atomic scale enabling us to image the chemical and structural record of mineral lattice growth and deformation and sometimes the patterns of radioactive parent and daughter atoms themselves to generate a microstructural geochronology from some of the most resilient materials in the solar system First compilation of research focusing on the crystal structure material properties and chemical zoning of the geochronology mineral archive down to nanoscale Novel comparisons of mineral time archives from different rocky planets and asteroids and their shock metamorphic histories Fundamentals on how to reconstruct and date radiogenic isotope distributions using atom probe tomography *Microstructural Geochronology* will be a valuable resource for graduate students academics and researchers in the fields of petrology geochronology mineralogy geochemistry planetary geology astrobiology chemistry and material science It will also appeal to philosophers and historians of science

from other disciplines *Geomagnetically Induced Currents from the Sun to the Power Grid* Jennifer L. Gannon, Andrei Swidinsky, Zhonghua Xu, 2019-10-15 An introduction to geomagnetic storms and the hazards they pose at the Earth's surface Geomagnetic storms are a type of space weather event that can create Geomagnetically Induced Currents (GICs) which once they reach Earth's surface can interfere with power grids and transport infrastructure Understanding the characteristics and impacts of GICs requires scientific insights from solar physics magnetospheric physics aeronomy and ionospheric physics as well as geophysics and power engineering *Geomagnetically Induced Currents from the Sun to the Power Grid* is a practical introduction for researchers and practitioners that provides tools and techniques from across these disciplines Volume highlights include Analysis of causes of geomagnetic storms that create GICs Data and methods used to analyze and forecast GIC hazard GIC impacts on the infrastructure of the bulk power system Analysis techniques used in different areas of GIC research New methods to validate and predict GICs in transmission systems **Iceland** Tamie J. Jovanelly, 2020-03-27 Explore the dramatic forces that have shaped the Icelandic landscape over 30 million years Iceland's formation and ongoing evolution offers a masterclass in geophysical processes Iceland Tectonics Volcanics and Glacial Features presents a regional guide to the landscape of this unique island Accessible to academics students novice geologists and tourists alike chapters reflect the most popular way to explore the island beginning in the southwest region and ending in the northwest Volume highlights include An overview of Iceland's geologic history Exploration of the dynamic tectonic setting that has shaped the island Descriptions of landscape features of active and extinct volcanoes Discussion of the impact of glaciation in the past and present Techniques for monitoring geologic hazards Developments in harnessing geothermal energy The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals This book was a finalist for the 2021 PROSE Award for Earth Science Find out more about this book in this short video and a Q A with the author Subduction Dynamics Gabriele Morra, David A. Yuen, Scott D. King, Sang Mook Lee, Seth Stein, 2015-10-20 **Inside the Subduction Factory** John Eiler, 2003 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 138 Subduction zones helped nucleate and grow the continents they fertilize and lubricate the earth's interior they are the site of most subaerial volcanism and many major earthquakes and they yield a large fraction of the earth's precious metals They are obvious targets for study almost anything you learn is likely to impact important problems yet arriving at a general understanding is notoriously difficult Each subduction zone is distinct differing in some important aspect from other subduction zones fundamental aspects of their mechanics and igneous processes differ from those in other relatively well understood parts of the earth and there are few direct samples of some of their most important metamorphic and metasomatic processes As a result even first order features of subduction zones have generated conflict and apparent paradox A central question about convergent margins for instance how vigorous magmatism can occur where plates sink and

the mantle cools has a host of mutually inconsistent answers Early suggestions that magmatism resulted from melting subducted crust have been emphatically disproved and recently just as emphatically revived the idea that melting is fluxed by fluid released from subducted crust is widely held but cannot explain the temperatures and volatile contents of many arc magmas generations of kinematic and dynamic models have told us the mantle sinks at convergent margins yet strong evidence suggests that melting there is often driven by upwelling In contrast our understanding of why volcanoes appear at ocean ridges and hotspots although still presenting their own chestnuts are fundamentally solved problems

Subduction Zone Geodynamics Serge Lallemand, 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

Mantle Flow and Melt Generation at Mid-ocean Ridges
Jason Phipps Morgan, Donna K. Blackman, John M. Sinton, 1992

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