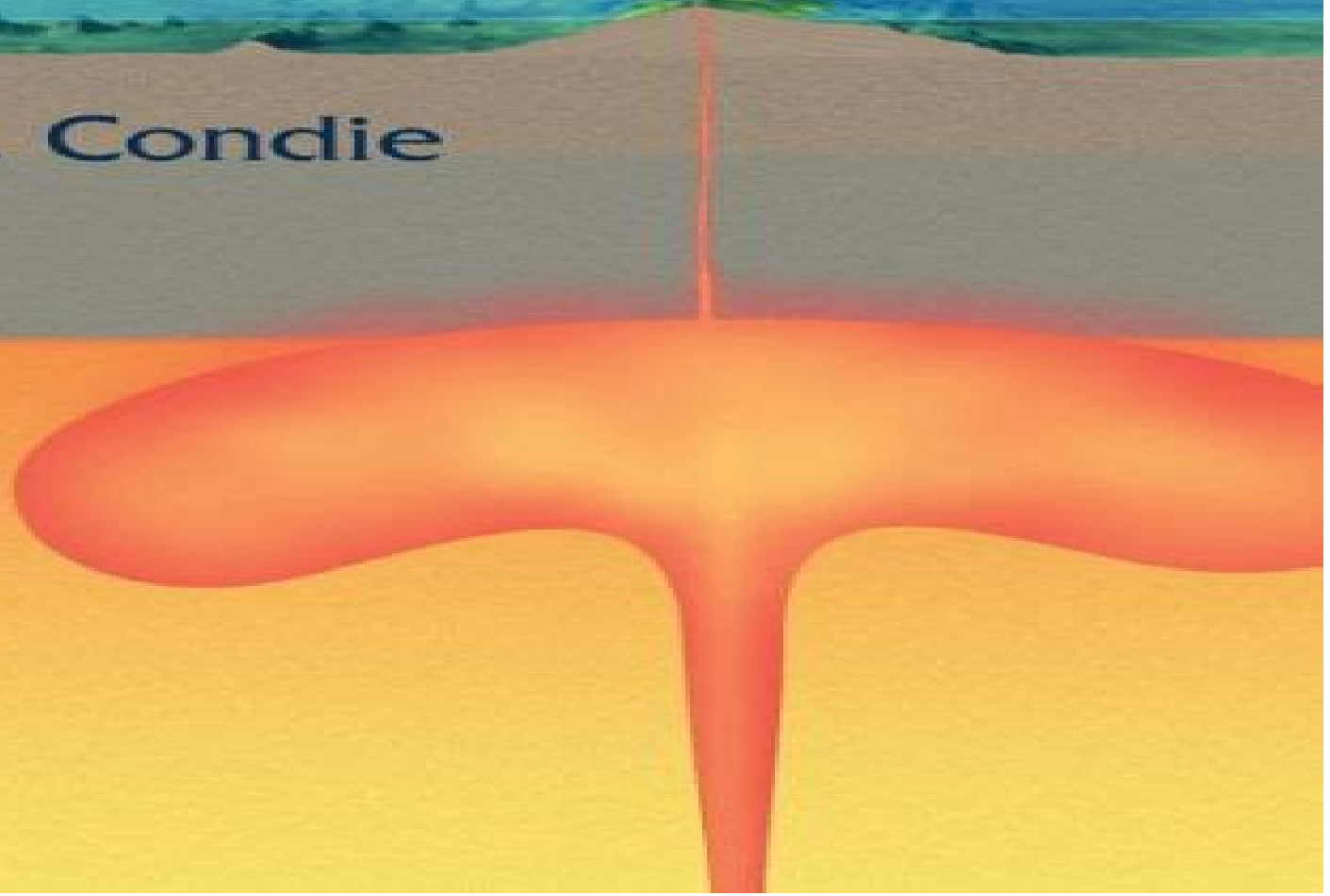


Mantle Plumes and Their Record in Earth History

Kent C. Condie



Mantle Plumes And Their Record In Earth History

R Barnett

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

Mantle Plumes And Their Record In Earth History:

Mantle Plumes and Their Record in Earth History Kent C. Condie, 2001-10-29 A comprehensive 2001 review of mantle plumes for advanced students and researchers in Earth science Mantle Plumes Richard E. Ernst, Kenneth L. Buchan, 2001-01-01 Mantle Plumes Joachim R. R. Ritter, U.R. Christensen, 2007-04-27 The concept of mantle plumes originally suggested by Morgan 1971 is widely but not unequivocally accepted as the cause for hotspot volcanism Plumes are thought of as deep rooted approximately cylindrical regions of hot rising mantle rock with a typical diameter of 100 200 km Pressure release melting near the bottom of the lithosphere produces magmas that rise to the surface and lead when the plate moves relative to the plume to a chain of volcanic edifices whose age progresses with increasing distance from the plume For a long time the evidence for mantle plumes has been largely circumstantial Laboratory and computer models of mantle convection show that under certain conditions plume like structures can be found and these simulations have been used to characterise their properties Geodetic signals such as topographic swells and associated geoid anomalies which surround the volcanic hotspots support the plume hypothesis They are best identified in an oceanic environment where the plume signal is usually less susceptible to be masked by effects of crustal or lithospheric heterogeneities The isotopic and trace element composition of hotspot lavas differs from those of mid oceanic ridge basalts which is interpreted as indication for a source reservoir different from average upper mantle rock The idea of mantle plumes has gained widespread popularity in various disciplines of Earth science and has been used sometimes perhaps excessively to explain volcanic and other phenomena

Encyclopedia of Geology , 2020-12-16 Encyclopedia of Geology Second Edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition New areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes Users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research Provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study Earth as an Evolving Planetary System Kent C. Condie, 2005-03-31 Earth as an Evolving Planetary System is based on Kent Condie's classic text Plate Tectonics and Crustal Evolution which has been revamped and renamed in order to reflect a new emphasis on the evolving interactions of the Earth's systems This revised volume synthesizes data from the fields of geophysics oceanography planetology and geochemistry It features new chapters on the Earth's core biotic systems and the supercontinent cycle and mantle plume events It contains expanded treatment of the

evolution of the Earth's crust and mantle carbon cycle oxygenation of the atmosphere and the significance of sulfur isotope fractionation. It also includes new information on mass extinctions and catastrophic events over the last four billion years that have transformed the atmosphere, oceans and life on Earth. By integrating results from many different disciplines, this important text gives students a broader perspective of the Earth Sciences and shows how specialized data contribute to Earth and planetary history. This text is designed for advanced undergraduate and graduate students in Earth Atmospheric and Planetary Sciences and scientists in other disciplines who want to look at the Earth with a broader perspective. New insight on interaction and evolution of Earth system. Examines the role of catastrophic events in Earth's history. New section on the evolution of the mantle.

The Nature and Models of Metamorphism Vladimir V. Reverdatto, Igor I. Likhanov, Oleg P. Polyansky, Valentin S. Sheplev, Vasily Yu. Kolobov, 2018-12-31. This book presents the genetic connections of metamorphism and geodynamics. It discusses the tectonic and magmatic processes as the reason of metamorphism and the geological types of metamorphism which define the features of parameters and paths. Three categories of metamorphism are distinguished depending on the heat flow rate: 1) at a geothermal gradient near to an average terrestrial normal value; 2) at a heightened thermal gradient as the result of additional heat supply in the Earth's crust by magmatic intrusions and diapirism of magma; 3) at a reduced thermal gradient during the collision of lithosphere plates and blocks of the Earth's crust. The quantitative methods of description of metamorphism have been widely used in this book. The mathematical models of metamorphism have been studied in connection with magmatic intrusions, rifting process and magmatic diapirism. Mineral changes in the rocks controlled by variations of parameters, mass transfer and chemical reactions have also been characterized. The book proposes a quasi-stationary model of diffusion metasomatism with respect to the formation of zonal structures of minerals. The method of mineral thermobarometry for the conditions of unsteady equilibrium has been worked out. The quantitative analysis of mass transfer during metamorphic reactions in the rock matrix has been carried out and the mobility of chemical elements at metamorphism has been estimated as well. The book is intended for specialists in the fields of petrology, mineralogy and geochemistry and for students at the senior and graduate level.

Geochemistry Francis Albarède, 2003-07-03. From measuring geological time through unravelling the evolution of continents, ocean and mantle to understanding climate change, modern geochemistry is a discipline which pervades nearly all of the Earth Sciences. Geochemistry provides a broad introduction to the subject which concentrates on the inorganic chemistry of the condensed part of our planet. This new textbook is written by the author of the authoritative and widely acclaimed *Introduction to Geochemical Modelling* (Cambridge, 1995). Emphasizing general principles rather than specific observations, Professor Albarède leads the reader through the simplest concepts of physics and chemistry behind geochemical processes. He covers fields central to geochemistry such as crystal chemistry, mass balance and element transport and geochemical dynamics. A broad range of applications is introduced in natural water systems, the deep Earth and planetary processes. Geochemistry is an ideal

textbook for undergraduate students and will also provide an accessible introduction for researchers working in related fields

The Crust R.L. Rudnick, Heinrich D. Holland, Roberta L. Rudnick, 2005-12-19 The Treatise on Geochemistry is the first work providing a comprehensive integrated summary of the present state of geochemistry It deals with all the major subjects in the field ranging from the chemistry of the solar system to environmental geochemistry The Treatise on Geochemistry has drawn on the expertise of outstanding scientists throughout the world creating the reference work in geochemistry for the next decade Each volume consists of fifteen to twenty five chapters written by recognized authorities in their fields and chosen by the Volume Editors in consultation with the Executive Editors Particular emphasis has been placed on integrating the subject matter of the individual chapters and volumes Elsevier also offers the Treatise on Geochemistry in electronic format via the online platform ScienceDirect the most comprehensive database of academic research on the Internet today enhanced by a suite of sophisticated linking searching and retrieval tools

Proterozoic East Gondwana Masaru Yoshida, Brian F. Windley, Somnath Dasgupta, 2003 This volume focuses on Late Mesoproterozoic to early Cambrian events related to Gondwana assembly and break up The nineteen papers provide a comprehensive review including advanced knowledge and new data from all critical areas of East Gondwana The recent knowledge of the evolution of East Gondwana which was regarded as an integral part of the Mesoproterozoic supercontinent Rodinia is the major theme of the volume which is reinforced by highlighting this radical and new understanding of the evolution of this region

Treatise on Geochemistry, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume

Granitic Systems O.T. Ramo, 2005-05-20 This special volume stems from a symposium

Granitic Systems State of the Art and Future Avenues that was held at the Department of Geology University of Helsinki to mark the retirement of Professor Ilmari Haapala The twenty articles in the volume cover a wide range of granite related topics and focus on three general themes tectonics and source regions petrologic processes and fractionated granites and pegmatites Both original papers and reviews are included and the volume will be acknowledged by anyone with a background in Earth Sciences as a flavor for granitoid rocks Comprehensive account of the current status of granite oriented research Topics ranging from mineralogy petrology and geochemistry to tectonics and crustal evolution **Plates, Plumes, and Paradigms** Gillian R. Foulger, 2005-01-01 The Tectonics of China Tianfeng Wan, 2012-01-19 The Tectonics of China Data Maps and Evolution presents the regional geological and petroleum surveys of China the author's original tectonic data and research results of Chinese and international scientists more than 1500 references from the last three decades It examines the main developments of geological evolution a series of tectonic events in the overall geological history 13 tectonic maps of the entire continent of Asia in different tectonic epochs and a general discussion of the main tectonic characteristics of the Chinese continental plate This book also intensively discusses the Mesozoic Cenozoic tectonics and intraplate deformations which control the majority of ore deposits and oil gas reservoirs and have a tremendous influence on the climates and natural disasters on the continent Some important tectonic theory problems are discussed such as the mechanisms of the widespread intraplate deformation the variation of lithosphere thickness the existence of mantle plumes the dynamic mechanisms for global tectonics and the author's proposed hypotheses on mantle plumes and meteorite impacts The book is intended for researchers and geologists working at universities on geological surveys for mining or petroleum companies and for graduate students of geology and mineral resources Tianfeng Wan is Professor at the China University of Geosciences Beijing China **Encyclopedia of Solid Earth Geophysics** Harsh Gupta, 2011-06-29 The past few decades have witnessed the growth of the Earth Sciences in the pursuit of knowledge and understanding of the planet that we live on This development addresses the challenging endeavor to enrich human lives with the bounties of Nature as well as to preserve the planet for the generations to come Solid Earth Geophysics aspires to define and quantify the internal structure and processes of the Earth in terms of the principles of physics and forms the intrinsic framework which other allied disciplines utilize for more specific investigations The first edition of the Encyclopedia of Solid Earth Geophysics was published in 1989 by Van Nostrand Reinhold publishing company More than two decades later this new volume edited by Prof Harsh K Gupta represents a thoroughly revised and expanded reference work It brings together more than 200 articles covering established and new concepts of Geophysics across the various sub disciplines such as Gravity Geodesy Geomagnetism Seismology Seismics Deep Earth Processes Plate Tectonics Thermal Domains Computational Methods etc in a systematic and consistent format and standard It is an authoritative and current reference source with extraordinary width of scope It draws its unique strength from the expert contributions of editors and authors across the globe It is designed to

serve as a valuable and cherished source of information for current and future generations of professionals

Superplumes: Beyond Plate Tectonics David A. Yuen, Shigenori Maruyama, Shun-ichiro Karato, Brian F. Windley, 2007-08-26 This abundantly illustrated book provides a concise overview of our understanding of the entire mantle its evolution since early differentiation and the consequences of superplumes for earth surface processes The book s balanced authorship has produced a state of the science report on the emerging concept of superplumes This presents a new concept to explain catastrophic events on Earth through geologic time

When Did Plate Tectonics Begin on Planet Earth? Kent C. Condie, Victoria Pease, 2008-01-01 Inspired by a GSA Penrose Conference held in Lander Wyoming June 14 18 2006 this volume discusses the beginning and evolution of plate tectonics on Earth and gives readers an introduction to some of the uncertainties and controversies related to the evolution of the planet In the first three sections of the book which cover isotopic geochemical metamorphic mineralization and mantle geodynamic constraints a variety of papers address the question of when modern style plate tectonics began on planet Earth The next set of papers focuses on the geodynamic or geophysical constraints for the beginning of plate tectonics The volume s final section synthesizes a broad range of evidence from planetary analogues and geodynamic modeling to Earth s preserved geologic record This work provides an excellent graduate level text summarizing the current state of knowledge and will be of interest to a wide range of earth and planetary scientists Publisher s website

[Palaeoproterozoic Supercontinents and Global Evolution](#) Steven Michael Reddy, 2009 The Palaeoproterozoic era 2500 1600 Ma is a critical period of Earth history with dynamic evolution from the deep planetary interior to its surface environment Several lines of geological evidence suggest the existence of at least one pre Rodinia supercontinent named Nuna or Columbia which formed near the end of Palaeoproterozoic time Prior to this assembly there may have been an older supercontinent Kenorland or perhaps only independently drifting supercratons The tectonic records of amalgamation and dispersal of these ancient landmasses provide a framework that links processes of the deep Earth with those of its fluid envelope The sixteen papers in this volume present reviews and new analytical data that span the geological record of Palaeoproterozoic Earth The volume is useful as a reference book for students and professional geoscientists interested in this important period of global evolution

The Geology and Tectonic Settings of China's Mineral Deposits Franco Pirajno, 2012-08-13 Extensive descriptions of a wide range of key or world class mineral deposits of China are presented in the context of the country s general geology tectonic units and mineral systems and their geodynamic evolution within the tectonic framework of the Asian continent This comprehensive overview incorporating the latest geological concepts is the first such coverage written in English by a western expert and will be of benefit to mineral explorers and miners as well as to research scientists and students in institutions of higher education In his compilation of this compendium of Chinese geology and mineral systems Franco Pirajno draws on first hand knowledge of China s geology and mineral deposits gained in numerous field visits and research projects with Chinese colleagues from various academic institutions over the past 18 years

First time that a western based book on China's geology and mineral deposits is published Appropriate for use by the mineral exploration industry Modern English language geological and mineral deposits information on China Most useful to Western and Chinese geoscientists Geochronology Nils-Axel Morner, 2014-07-25 Chronology is the backbone of history and there is a wise saying stating there is no history without a chronology Earth's evolutionary history is built up by geochronology i.e. time benchmarks upon which the geological history is built up step by step over its total time period of about 4.5 billion years The first marker in this history is the Jack Hills zircon from Australia dated at about 4.4 Ga The most detailed records come from seasonal changes within annual varves Stratigraphy provides the basic chronological ordering of layers by layers units by units fossil assemblage by assemblage varves by varves growth zone by growth zone etc The radiometric techniques implied the introduction of absolute age determinations This book includes a combination of methodological presentations and related case studies from where we learn about practical problems and achievements Therefore the book should be of basic interest both for scientists in their practical in field and laboratory as well as for general educational purpose

Continent Formation Through Time N.M.W. Roberts, M. van Kranendonk, S. Parman, S. Shirey, P.D. Clift, 2015-02-16 The continental crust is our archive of Earth history and the store of many natural resources however many key questions about its formation and evolution remain debated and unresolved What processes are involved in the formation differentiation and evolution of continental crust and how have these changed throughout Earth history How are plate tectonics the supercontinent cycle and mantle cooling linked with crustal evolution What are the rates of generation and destruction of the continental crust through time How representative is the preserved geological record A range of approaches are used to address these questions including field based studies petrology and geochemistry geophysical methods palaeomagnetism whole rock and accessory phase isotope chemistry and geochronology Case studies range from the Eoarchaeon to Phanerozoic and cover many different cratons and orogenic belts from across the continents

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