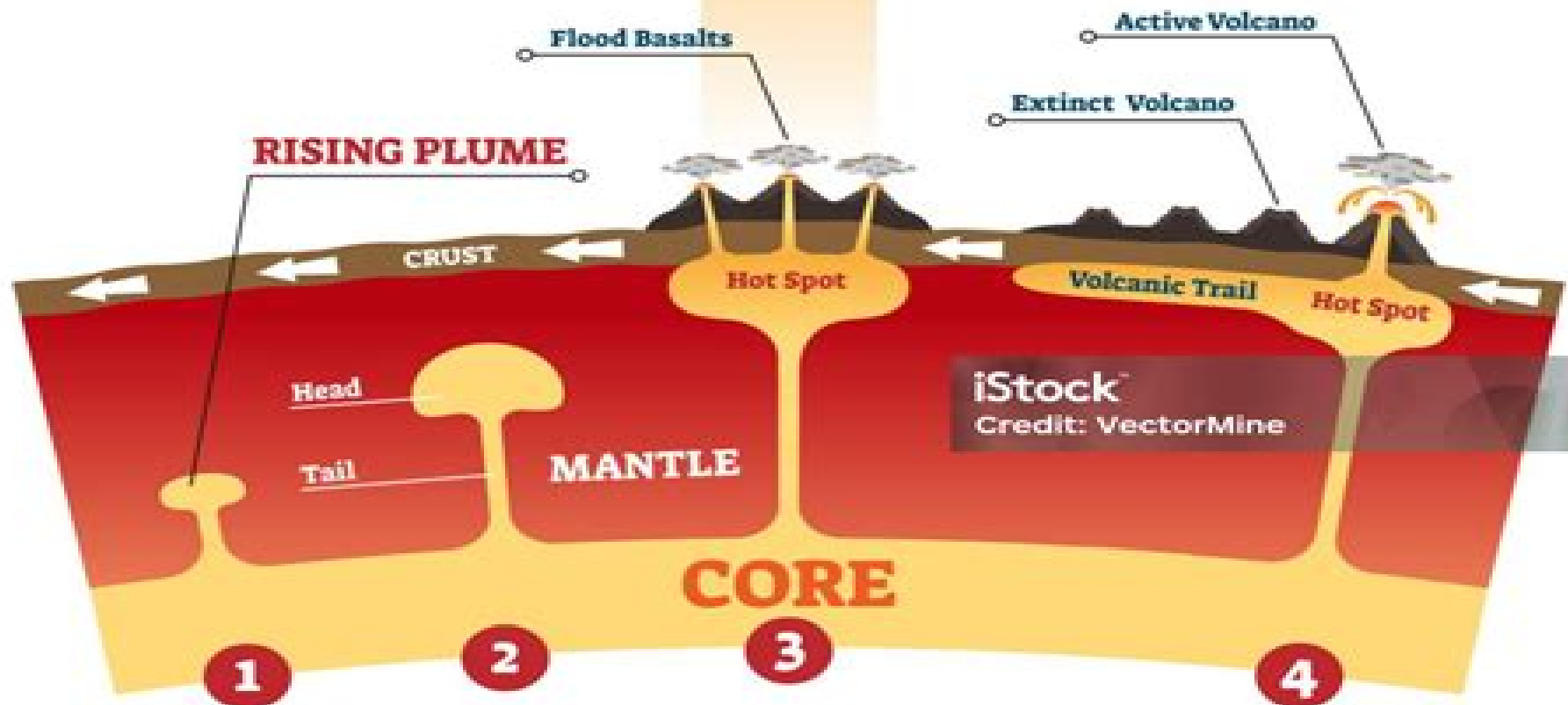


# MANTLE PLUMES



# Mantle Plumes

**Thomas Griffiths**



## **Mantle Plumes:**

*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.

**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

**Plates, Plumes, and Planetary Processes** Gillian R. Foulger, Donna M. Jurdy, 2007 Presents a collection of papers discussing various hypotheses and models of planetary plumes.

**Mantle Plumes and Their Effects** Mainak Choudhuri, Michal Nemčok, 2016-08-22 This book presents a brief synopsis of the current academic understanding of the plume hypothesis its surface manifestations and its shortcomings. It also describes methods for estimating the uplift history of a region due to plume activity. It discusses different models for the elastic properties of the lithosphere and their estimation as a background for plume emplacement and introduces the plume hypothesis describing the major plume types and their effect on the lithosphere. Two chapters are dedicated to the dynamic and permanent topography produced by an impinging plume head below the lithosphere and its estimation. It also presents the historical background of the plume hypothesis its criticisms and alternatives.

**Plates, Plumes, and Paradigms** Gillian R. Foulger, 2005-01-01

**Plates vs Plumes** Gillian R.

Foulger, 2011-06-13 Since the advent of the mantle plume hypothesis in 1971 scientists have been faced with the problem that its predictions are not confirmed by observation. For thirty years the usual reaction has been to adapt the hypothesis in numerous ways. As a result the multitude of current plume variants now amounts to an unfalsifiable hypothesis. In the early 21st century demand became relentless for a theory that can explain melting anomalies in a way that fits the observations naturally and is forward predictive. From this the Plate hypothesis emerged the exact inverse of the Plume hypothesis. The

Plate hypothesis attributes melting anomalies to shallow effects directly related to plate tectonics. It rejects the hypothesis that surface volcanism is driven by convection in the deep mantle. Earth Science is currently in the midst of the kind of paradigm challenging debate that occurs only rarely in any field. This volume comprises its first handbook. It reviews the Plate and Plume hypotheses including a clear statement of the former. Thereafter it follows an observational approach drawing widely from many volcanic regions in chapters on vertical motions of Earth's crust, magma volumes, time progressions of volcanism, seismic imaging, mantle temperature and geochemistry. This text deals with a paradigm shift in Earth Science, some say the most important since plate tectonics. It is analogous to Wegener's *The Origin of Continents and Oceans*. It is written to be accessible to scientists and students from all specialities. This book is indispensable to Earth scientists from all specialties who are interested in this new subject. It is suitable as a reference work for those teaching relevant classes and an ideal text for advanced undergraduates and graduate students studying plate tectonics and related topics. Visit Gillian's own website at <http://www.mantleplumes.org>

**Convection and Melting Processes in a Mantle Plume Under a Spreading Ridge, with Application to the Iceland Plume** Thomas Ruedas, 2004. Mid-oceanic ridges and plumes are two major types of geodynamic features of the Earth and contribute significantly to terrestrial volcanism. Especially strong melt production in the mantle as well as increased crust formation and volcanic activity at the surface take place where a ridge and a plume coincide. This study combines a succinct survey of current knowledge on convection and melting in a plume ridge setting with several series of numerical models probing the importance of various parameters for these processes. Predictions of observables are also derived from the models. Emphasis is put on applications to Iceland where such a setting is presently realized and a geodynamic model for the upper mantle beneath Iceland is proposed. *Resources and Sustainable Development*

Jian Guo Wu, Xi Xi Lu, He Xu, Nobukazu Nakagoshi, 2013-08-16. Selected peer-reviewed papers from the 2013 2nd International Conference on Energy and Environmental Protection ICEEP 2013 April 19-21 2013 Guilin China **Ore**

**Deposits and Mantle Plumes** Franco Pirajno, 2013-11-11. PERTH Western Australia March 2000. Increasingly explorationists are seeking to find new ore deposits in poorly prospected areas, be they geographically remote such as in the Arctic or geologically remote such as those under sedimentary cover. Modern prospecting techniques including low detection level geochemistry and the use of advanced geophysical instrumentation have greatly assisted explorers but fundamental to any soundly based exploration program remains an understanding of the geological framework of ore deposits. This allows the development of deposit models on macroscopic and mesoscopic scales. This book by Dr Franco Pirajno draws on his extensive and wide global experience. To set the scene for a discussion of ore deposit generation, Franco details the Earth's internal structures and mantle dynamics. He then explores the impact of mantle plumes on the crust and in particular their role in the production of magmatic environments and in continental scale rifting. This includes a descriptive section on magmatic provinces around the globe which highlights the importance of plumes. Any study of Earth processes needs to take

into account the effects of extraterrestrial bombardment and in particular the results from the impacts of large bolides The effects of these impacts on the atmosphere and on life have now been recognised as profound It is likely that the effect of these impacts on the Earth's crust is as equally profound **Izvestiya, Russian Academy of Sciences** ,2007

**Superplumes: Beyond Plate Tectonics** David A. Yuen, Shigenori Maruyama, Shun-ichiro Karato, Brian F. Windley, 2007-06-29 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 **Tectonic and Magmatic Evolution of the Snake River Plain Volcanic Province** Bill Bonnichsen, Craig White, Michael Owen McCurry, 2002 **Spink & Son's Monthly Numismatic Circular** ,1896 *Northeastern Geology and Environmental Sciences* ,2003 *Novitates Zoologicae* ,1896 *Catalogue of the Limicolae* Richard Bowdler Sharpe, 1896 *Catalogue of the Birds in the British Museum: Limicolæ*, by R.B. Sharpe. 1896 British Museum (Natural History). Department of Zoology, 1896 This enormous undertaking which according to one of the prefaces professes to be a complete list of every bird known at the time of publication kept growing even as it was being written The Museum added eagerly to their already vast collections during the decades of publication acquiring by gift the great collections of A O Hume on Asian birds and those of Sclater and Salvin and Godwin on Neotropical birds so that the size of the collection nearly tripled between 1874 and 1888 Sharpe originally intended to do all the work himself but others were called in when this became clearly impossible The plates are all of birds not previously illustrated In the decades following its publication this catalogue was universally acclaimed as the most important work on systematic ornithology that has ever been published Zimmer p 96 And even after one hundred years it remains an essential reference for the serious ornithologist as it underpins a great deal of modern bird classification With 387 plates most hand coloured lithographs some chromolithographs by William Hart J G Keulemans Joseph and Peter Smit **Catalogue of the Birds in the British Museum: Limicolæ, by R.B. Sharpe** British Museum (Natural History). Department of Zoology, 1896 *The Birds of South Africa* Arthur Cowell Stark, 1906

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