

THE EARTH'S DEGASSING, ROTATION AND EXPANSION AS SOURCES OF GLOBAL TECTONICS

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Abstract. Several specific structural features are typical for the Earth. Like other planets it is divided into two hemispheres with different relief: the Pacific hemisphere with the lowered relief and thin oceanic crust, and the continental hemisphere with a raised relief and a thick continental crust. This division is outlined by the Benioff zone ring around the Pacific Ocean. Another regularity is a system of the oceanic ridges forming a ring around Antarctica with regular sprigs of mid-oceanic ridges. The origin of these regular structures contradicts to chaotic movement of the lithosphere plates but it may be explained by the fluids-rotation concept proposed by the author. The conception supposes two main energy sources of the global tectonics: the degasification of the Earth (the fluids advection) and the Earth's rotation. Three basic stages of the tectonosphere formation are distinguished by the conception. Judging by the paleomagnetic data in Archean-Proterozoic several continents were formed in the southern hemisphere. The geochemical studies show that the thick continental tectonosphere (continental roots) was formed in from the mantle matter with a high content of fluids and it means that the intensive deep fluid flow has been at that time in the southern hemisphere. The formation of the thick tectonosphere has led to asymmetry of the planet and to the relative displacement of the mass centers of the Earth's spheres. That resulted in mantle turning around the core in Paleozoic with the movement of the continental hemisphere to the north. The mantle rotation around the core created a new nonequilibrium system. Therefore in Mesozoic era an expansion of the southern hemisphere began. Such expansion resulted in the regular system of the mid-oceanic ridges symmetrical to the Antarctica.

Key words: *Earth rotation, fluids, geospheres, continents, oceans, geodynamics.*

Introduction

The plate tectonics concept is still the most popular concept. It explains the geological processes as the paleomagnetic pole mobility, the formation of the orogens and rift systems by the large scale drift of the lithosphere plates. The ocean formation is explained by the spreading of the lithosphere in the regions of mid-ocean ridges and its subduction beneath the active margins of the continents. But the concept can not explain why the subduction is observed only within the Pacific Ring, and how the observed ancient subcontinental crust was formed in the oceans. Many other contradictions between the plate tectonics concept and the experimental data are widely discussed in many articles (Meyerhoff and Meyerhoff, 1974; Beloussov, 1979; Grant, 1980; Barto-Kyriakidis, 1990; Dickins et al., 1992; Meyerhoff et al., 1992; Dickins, 1994; Storetvedt, 1997; 2003; Pavlenkova, 1995, 1998; Pran, 2000; Shalpo, 2002) and in the special international journal *New Concepts in Global Tectonics Newsletter*. The main conclusion of all these publications is that the plate tectonics cannot be used as the basic tenets of the global geodynamics, and other models should be developed to explain the observed geological and geophysical data.

There are some other concepts of the global tectonics, but they consider most often some limited amount of data or individual events, without linking them in with each other. The most of them do not consider the sources of the global processes and their origins. Thus, the hypothesis of the expanding Earth (Scalera and Jacob, 2003) explains the formation of the oceans by the rupture and spreading of the continents without the subduction. But the expansion sources are not clarified. There are also not enough foundations of such large expansion possibility during the short period of time (from the late Paleozoic). The endogenous regime concept (Beloussov, 1990) on the contrary considers mainly the processes within the continents without touching the problems of the oceans. The wrench theory by Storetvedt (1997 and 2003) overcomes many weak points of the plate tectonics and describes in detail the results of the continent rotations but the origin and the scale of this rotation are problematic. The concept of the plume tectonics considers only some abnormal tectonic activity in the local regions and does not address other problems. In many concepts the observed tectonic evidences are rarely considered with the common energy sources and a little

New Concepts In Global Tectonics

Antony Morris, Donald Harvey Tarling



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TECTONICS AND PHYSICS Geology although rooted in the laws of physics rarely has been taught in a manner designed to stress the relations between the laws and theorems of physics and the postulates of geology The same is true of geophysics whose specialties seismology gravimetry magnetism magnetotellurics deal only with the laws that govern them and not with those that govern geology's postulates The branch of geology and geophysics called tectonophysics is not a formalized discipline or subdiscipline and therefore has no formal laws or theorems of its own Although many recent books claim to be textbooks in tectonophysics they are not they are books designed to explain one hypothesis just as the present book is designed to explain one hypothesis The textbook that comes closest to being a textbook of tectonophysics is Peter 1 Wyllie's 1971 book *The Dynamic Earth* Teachers students and practitioners of geology since the very beginning of earth science teaching have avoided the development of a rigorous but not rigid scientific approach to tectonics largely because we earth scientists have not fully understood the origin of the features with which we are dealing This fact is not at all surprising when one considers that the database for hypotheses and theories of tectonics particularly before 1960 has been limited to a small part of the exposed land area on the Earth's surface

New Frontiers in Tectonic Research Evgenii Sharkov,2011-07-27 This book is devoted to different aspects of tectonic research Syntheses of recent and earlier works combined with new results and interpretations are presented in this book for diverse tectonic settings Most of the chapters include up to date material of detailed geological investigations often combined with geophysical data which can help understand more clearly the essence of mechanisms of different tectonic processes Some chapters are dedicated to general problems of tectonics Another block of chapters is devoted to sedimentary basins and special attention in this book is given to tectonic processes on active plate margins

Tectonic Globaloney N. Christian Smoot,2012-05-30 Forty five years after the synthesis of the plate tectonic hypothesis much newer and better information has been gathered by the seagoers of the world Contrary to popular opinion among earth scientists the purveyors of plate tectonics are the present day snake oil salesmen This null hypothesis is fraught with misinformation and misconceptions It is in need of a massive make over Mid-ocean ridge spreading does not occur universally especially in Iceland and the North Pacific basin Deep earthquakes do not define a descending slab in fact do not even occur in most places along the trenches Therefore subduction does not occur Continental drift is a figment of overly active imaginations and Gondwana is an even greater figment India has been in place for several billion years rather than wandering around Index fossils like *Lystrosaurus* and *Cynognathus* are misused misdated and show nothing Land bridges have surfaced and been submerged many times over the years allowing for free

passage of fauna and flora Fracture zones rather than showing the direction of seafloor spreading leave nothing more than a pattern of at least four different directions on the ocean floor as they intersect in a random fashion The Chicxulub crater is not the result of a bolide strike and this was known from the get go In 2004 the first edition of Tectonic Globaloney was published Since that time much new information has been gathered and published The Ocean Drilling Program has gone defunct as the owners of that program finally realized admitted that they were not recovering basement material self admitting that only eight off ridge cores had ever reached real basement Therefore the age of the ocean floor was unknown and the magnetic anomalies are not ground truthed The time has come for the field hands to take over and replace the ideas mostly derived by the geophysicists Plate tectonics does not work

The Sea, Volume 4A: New Concepts of Sea Floor Evolution Arthur E. Maxwell, Edward Bullard, J. Lamar Worzel, 1971-01-05 Earth Subhasis Sen, 2007-05-16 This book seeks to provide a new and integrated perspective on the Earth Supporting the earth expansion theory and based on it the book offers a new interpretation on the total earth system including global tectonics which explains the cause of earth s expansion formation of the continents oceans and mid oceanic ridges formation of mountain ranges the nature of mantle core and fluid geosphere magnetic features of the planet distribution of temperature pressure and gravity in the interior of the planet cause of perennial heat of the planet and various other features of global significance The book offers a totally new concept and interpretation of gravity and provides explanations as to why the earth s core of the outer core using the new theory and the implication of the earth s rotation in revamping and shaping the crustal manner

The Sea, Volume 4B: New Concepts of Sea Floor Evolution Arthur E. Maxwell, Edward Bullard, J. Lamar Worzel, 1971-01-05 **Global Tectonic Zones, Supercontinent Formation and Disposal** Xiao Xuchang, Liu Hefu, 2022-01-26 This book is a collection of papers presented in the 30th International Geological Congress held in Beijing on global tectonic zones supercontinent formation and disposal The papers deal with topics on tectonic framework and petrology and geochemistry variations of Asian regions

ENVIRONMENTAL AND ENGINEERING GEOLOGY -Volume II Syed E. Hasan, Benedetto De Vivo, Bernhard Grasemann, Kurt Stüwe, Jan Lastovicka, Syed M. Hasan, Chen Yong , 2011-12-05 Environmental And Engineering Geology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Environmental and Engineering Geology with contributions from distinguished experts in the field discusses matters of great relevance to our world such as engineering and environmental geology and their importance in our life It also includes a discussion of some new applications of geoscience such as medical geology forensic geology use of underground space for human occupancy and geoindicators These four volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

The Hidden History of Earth Expansion Stephen W. Hurrell, 2020-05-14 For

more than half a century the theory of continental drift was widely derided. Innovators developing the radical theory were labelled as unscientific by well known science authorities. But then in the space of a few years virtually all opposition dramatically collapsed. Continental drift transformed into plate tectonics and became widely acknowledged as one of the most profound scientific revolutions of the twentieth century. Yet a number of science innovators who had been closely involved with creating this new theory of the Earth continued to research an even more radical theory. They saw evidence that the new geological theory was incomplete, arguing that continental drift was caused by the Earth expanding in size. These science innovators give us a unique insight into their experiences. They relate their personal histories of Earth expansion in 14 original essays. *The Hidden History of Earth Expansion* presents the unique personal histories of British, American, Australian, German, Polish, Romanian, Indian, Albanian, and Jamaican science innovators as they strived to produce a modern theory of the Earth. It includes chapters expressly written for the book by some of the most well known researchers into Earth expansion: Hugh G. Owen, Cliff Ollier, Karl Heinz Jacob, James Maxlow, Jan Koziar, Stefan Cwojdziński, Carl Strutinski, Stephen W. Hurrell, John B. Eichler, William C. Erickson, David Noel Zahid, A. Khan, Ram Chandra Tewari, Vedat Shehu, and Richard Guy. In addition to furnishing us with their personal histories of Earth expansion and the seemingly overwhelming evidence for its confirmation, the authors highlight areas where further research is required.

China — Stratigraphy, Paleogeography and Tectonics Arthur A. Meyerhoff, M. Kamen-Kaye, Chin Chen, I. Taner, 2012-12-06. All such systems are important in the Proterozoic column. This volume concerns the geology of China and it examines that concern by exposition of the stratigraphy, possibly unique in its continuous sedimentary development, the paleogeography, and the tectonics of that remarkable continent and in its reference section of global rank. In paleogeography, this volume describes and illustrates the country. In this sense, therefore, our aims and purposes are explicit in the title. The senior author and his colleagues first trace the broad distribution of Proterozoic deposits; furthermore, they do not have in mind any special succeeding descriptions and illustrations trace the ebb and flow of shallow marine waters across China as of specific audience. This volume is quite simply for all geologists. By far the majority will be those whose Phanerozoic time of more than 600 million years elapses; native tongue is English or those who understand from the beginning of the Cambrian to the present. In structure, this volume emphasizes the importance of English. Not to be overlooked, moreover, is the large number of Chinese geologists who not only read English of paraplatforms, platforms, geosynclines, and great but also who themselves write studies in English that east-west zones of fracture in the Precambrian also appear in publications in both their homeland and effects of these early structural elements on structure abroad in the ensuing Phanerozoic. In the Phanerozoic itself, north-south stress developed in the pre-Phanerozoic. A constantly growing interest in the geology of China continued through much of the Paleozoic. The Source Field Investigations David Wilcock, 2012-07-31. Prepare yourself for a revealing tour through the most incredible scientific mysteries of the world with your guide David Wilcock, the New York Times bestselling author of *Awakening in the Dream*. More than two million people

have seen David Wilcock's incredible tour of the 2012 prophecies in his Internet documentary The 2012 Enigma Now he expands his vision with a cutting edge investigation into alternative sciences with deep insights into what is coming in our immediate future A stunning synthesis of hidden science and lost prophecies The Source Field Investigations exposes DNA transformation wormholes ancient conspiracies the Maya calendar and a new model of galactic energy fields triggering mental biological and spiritual evolution Unlike the apocalyptic viewpoints depicted in big budget disaster films Wilcock believes that 2012 will be a watermark for widespread acceptance of a greater reality and here he lays out the blueprints for such a Golden Age

Palaeomagnetism and Tectonics of the Mediterranean Region Antony Morris, Donald Harvey Tarling, 1996 The Mediterranean region represents a complex mosaic of continental microcontinental and ophiolitic terranes whose overall evolution has been controlled by relative movements between the African and Eurasian plates Palaeomagnetic studies have played an important part in deciphering the sequence of tectonic events in this region The 33 papers presented here span the full width of the Mediterranean basin and present results from Permian to Quaternary rocks

The Architecture of Geodynamics Carroll L. Hoyt, 2002 **Regional Geology and Tectonics** David G. Roberts, A.W. Bally, 2012-12-31 Volume 1A Principles of Geologic Analysis A how to primer describes the basic concepts petroleum geologists and students need to understand hydrocarbon exploration in a broad range of geological settings globally Volume 1B Phanerozoic Rift Systems and Sedimentary Basins Incorporates industry data to present regional seismic lines and cross sections to accurately document and analyze proven hydrocarbon systems It also includes summaries of analogue and theoretical models as an essential backdrop to the structure and stratigraphy of a variety of geological settings Volume 1C Phanerozoic Passive Margins Cratonic Basins and Global Tectonic Maps Focuses on both volcanic and non volcanic passive margins as well as cratonic basins critical habitats for hydrocarbons It provides a unique basis for comparison of different passive margins and for an understanding of their structural and stratigraphic evolution as well as their petroleum systems especially useful to explorationists working in deep water basins and researchers examining the tectonic evolution of the continent ocean transition A vast amount of data to enable hydrocarbon play assessments and analysis on passive margins is also included in this thorough yet accessible reference Individual volumes can also be purchased

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9780444530424 index.php **Science Reason Rhetoric** Henry Krips, J.E. McGuire, Trevor Melia, 2017-03-13 This volume from the Pittsburgh Konstanz series marks a unique collaboration by internationally distinguished scholars in the history of rhetoric, philosophy and sociology of science. Converging on the central issues of rhetoric of science, the essays focus on figures such as Galileo, Harvey, Darwin, von Neumann and on issues such as the debate over cold fusion or the continental drift controversy. Their vitality attests to the burgeoning interest in the rhetoric of science. *Morphotectonics* Adrian E. Scheidegger, 2004-04-08 Morphotectonics: the relation between geomorphology and neo tectonics is fundamental to the understanding of landscape evolution. Stressing mainly the quantitative interpretation of field observations, this monograph compares the morphological structure of drainage systems, river courses, glacial forms, volcanic landscapes and mass movements with joint orientations. The latter are indicative of the neotectonic stresses and thus inferences on the genesis of the morphological forms can be drawn. The data on outcrops on all six continents and on islands in all major oceans have been acquired to a large extent by the author himself. The book therefore represents a first hand account of the work and its relevance which has been done worldwide over the last 30 years. **Evolution of North America** Philip Burke King, 2015-03-08 In revising his now classic work on the geology of North America, Philip B. King has devoted attention both to the new concepts of global tectonics and to new facts obtained from fieldwork in recent years. From its overview of the natural history of continents to the sections describing the characteristics and history of each region, this remains a fundamental text on continental geology. Originally published in 1977, The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

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