

## Introduction to Plate Tectonic Theory, Geodesy, and VLBI

The plate tectonic theory is a relatively new, accepted only around 50 years ago. The following website contains a more detailed and lesson plans on plate tectonics, geodesy, and VLBI.

<http://www.haystack.mit.edu/edu/pcr/GPS/index.html>

### The Plate Tectonic Theory

In 1912, Alfred Wegener proposed that all the continents were at one time a single large continent that broke apart, and drifted through the ocean floor to where they are now. Wegener was first influenced by how the continents fit together, especially western Africa and eastern South America. When he compared the rock structures and composition of the coastlines of the continents mentioned above, he found them to be very similar. Wegener also examined fossil distribution, location and similarity and again found a strong correlation. For example, why was a specific trilobite only found in Massachusetts and in Scotland?

His theory of continental drift was not accepted in the scientific community because it conflicted with the established theories which were:

1. The continents' position are basically unchanged since when were formed. (Permanentists)
2. The Earth gradually contracted and the ocean floor became dry land, and dry land, in turn, became ocean floor (Contractionists)

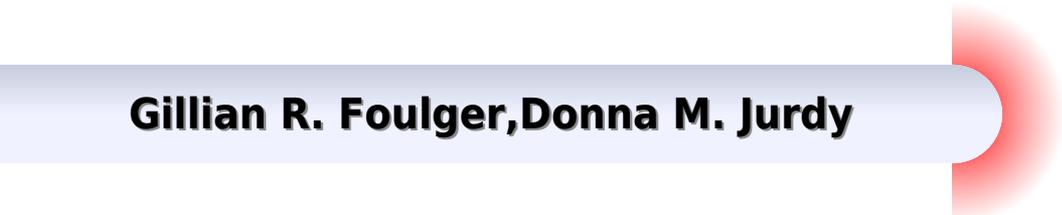
South African geologist, Alexander Du Toit spent five months in Brazil, Uruguay and Argentina examining the geology. He found that the same plant and animal fossils he knew in South Africa were embedded in the rock in the same sequence layer by layer.

Paleomagnetism, the study of the magnetism in rocks, provided more substantiation. When molten igneous rocks solidify, magnetic minerals in the rocks, (for example, iron oxides) align themselves with the Earth's magnetic field. The deviations in the magnetic alignment in these rocks from the current direction of the Earth's magnetic field showed that the continents have moved.

Finally during the 1960's two Cambridge scientists, Drummond Matthews and Fred Vine, discovered that on either side of the Mid-Atlantic Ridge there were a series

# Introduction To Plate Tectonic Theory Geodesy And

**Gillian R. Foulger, Donna M. Jurdy**



## **Introduction To Plate Tectonic Theory Geodesy And:**

*Earth System: History and Natural Variability - Volume II* Vaclav Cilek, 2009-07-15 Earth System History and Natural Variability theme is a component of Encyclopedia of Natural Resources Policy and Management in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Earth System History and Natural Variability with contributions from distinguished experts in the field presents a description of the cosmic environment around our planet influencing the Earth in a number of ways through variation of solar energy or meteorite impacts The structure of the Earth and its rocks waters and atmosphere is described The Theme focuses on geological and evolutionary processes through the history of Earth s epochs and biomes since the Early Earth to the Quaternary The unifying processes between the Earth s life and its rocks waters and atmosphere are global natural cycles of carbon sulfur and other elements that connect and influence the rate of geological processes climate change biological evolution and human economy These five 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

**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 Proceedings of the 30th International Geological Congress. 1. Origin and history of the earth Hung-chen Wang, Hongzhen Wang, Borming Jahn, Shih-jung Mei, 1997-07 This book deals with the different aspects of the symposia ranging from in the original order of the sessions early history of the earth continental accretion coremantle differentiation biological evolution palaeoclimate to interaction between the lithosphere and the hydro atmo biosphere Deep Structure and Past Kinematics of Accreted Terranes John W. Hillhouse, 1989 A selection of papers presented in symposium 12 at the XIX General Assembly of the IUGG held August 15 18

1987 in Vancouver Pref Origin and History of the Earth Hongzhen Wang, Borming Jahn, Shilong Mei, 2018-02-06 This book deals with the different aspects of the symposia ranging from in the original order of the sessions early history of the earth continental accretion coremantle differentiation biological evolution palaeoclimate to interaction between the lithosphere and the hydro atmo biosphere Theory of Satellite Geodesy and Gravity Field Determination Fernando Sansò, Reiner Rummel, 1989 **Plate Tectonics** John K. Reed, 2000 Recent publications advocate derivative catastrophist interpretations of PT Catastrophist and uniformitarian interpretations share many premises and conclusions Therefore a concise analysis of more voluminous evidence for and against uniformitarian PT can be used as a shortcut to assess the credibility of Catastrophic Plate Tectonics CPT Ongoing questions regarding uniformitarian PT offer reasons for skepticism of CPT until a more thorough evaluation is complete **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 Bulletin - Royal Society of New Zealand Royal Society of New Zealand, 1986 *25 Years of Plate Tectonics* David Wright Collinson, 1998 Chronique de l'U.G.G.I. International Union of Geodesy and Geophysics, 1987 General Catalog -- University of California, Santa Cruz University of California, Santa Cruz, 2008 *Contributions of Space Geodesy to Geodynamics* David E. Smith, Donald L. Turcotte, 1993-01-11 Published by the American Geophysical Union as part of the Geodynamics Series Volume 23 There are times in the history of a science when the evolving technology has been combined with a singleness of purpose to make possible the next great step For space geodesy the decade of the 1980s was one of those times Initiated in the early 1980s the NASA Crustal Dynamics Project CDP a global venture of unprecedented proportions exploited new technologies to confirm and refine tectonic theories and to advance geodynamics *Acta Geodaetica, Geophysica Et Montanistica Hungarica*, 1986 *Standard Catalog for High School Libraries* H.W. Wilson Company, 2002 Each vol is divided into 2 parts 1st 7th ed Dictionary catalog and Classified catalog 8th 9th ed have 3rd part Directory of publishers *European Workshop on Space Oceanography, Navigation and Geodynamics* S. Hiebert, T. D. Guyenne, 1978 **Developments in Four-Dimensional Geodesy** Fritz K. Brunner, 1990-03-07 This selection of papers emphasizes the advances in the field and covers a wide range of topics in geophysics geodynamics and oceanography to which modern geodesy is contributing Plate Tectonics Arthur Newell Strahler, 1998 **Global Reconstruction and the Geomagnetic Field During the Palaeozoic** M.W. McElhinny, International Union of Geodesy and Geophysics, 1981-07-31 Proceedings of a Symposium held during the IUGG XVth General Assembly Canberra Australia Decmber 1979 *Travaux* International Association of Geodesy, 1992

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