

Early Precambrian Basic Magmatism

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R.P. Hall, D.J. Hughes



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Early Precambrian Basic Magmatism R.P. Hall,D.J. Hughes,2012-12-06 Basic magmatic rocks make up approximately three quarters of the crust of the present day Earth Because we can observe and study the volcanic products of present day tectonic regimes comprehensively we can shed light on ancient tectono magmatic provinces and thereby deduce the petrogenesis and evolution of the oldest basic rocks This is the primary objective of this book The book was conceived in order to provide a comprehensive review of the basic rocks produced during the first half of the Precambrian i e the Archaean and early Proterozoic to about 1 8 Ga years ago Two major questions are addressed First what basic magmas were generated during the early Precambrian were these magmas globally uniform and to what extent were prevailing tectonic controls and compositions analogous to those of the present day Clearly this can be answered only by bringing together fundamental information about all relevant basic magmatic events Second is there any systematic temporal variation in the nature of basic suites and what implications might such variations have on our interpretations of early Earth history Are there important differences between early Archaean late Archaean Proterozoic and modern basic magmatic suites The book uses two approaches to address these questions Early chapters examine the fundamental characteristics of these basic rocks whilst later chapters assess regional distribution and development by providing an overview of each major early Precambrian craton

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Summary Review of the Geology of Greenland as Related to Geological and Engineering Aspects of Sampling Beneath the Inland Ice Thomas C. Mowatt,1994

Magmas, Rocks and Planetary Development Eric A. K. Middlemost,2014-06-03 The variety of volcanic activity in the Solar System is widely recognised yet the majestic sequences of

magmatic processes that operate within an active planet are much less well known. Providing an exposition of igneous rocks, magmas and volcanic eruptions, this book brings together magnetic and volcanic data from different tectonic settings and planets with explanations of how they fit together. It systematically examines composition, origin and evolution of common igneous rocks, yet also examines a variety of rare magnetic rocks that play a crucial role in the global magma igneous rock system.

Dyke Swarms - Time Markers of Crustal Evolution E. Hanski, S. Mertanen, T. R. Jouni Vuollo, 2006-09-28. Dyke swarms are remnants of large igneous provinces and are pointers of continental break up events as well as indicators for ancient continental reconstructions. These global geodynamic aspects are of crucial significance in tectonics and with recent developments in high precision age dating it has become possible to enter these short lived magmas.

Proterozoic Crustal Evolution K.C. Condie, 1993-02-03. As a final product of the International Geological Correlation Program IGCP Project 217, this volume brings together significant advances in the understanding of Proterozoic crustal evolution. This IGCP Project focussed on nine research objectives:

1. Comparison of Archean and Proterozoic supracrustal assemblages to more fully understand differences between Archean and post Archean tectonic regimes.
2. To more fully understand the geochemical differences between Archean and post Archean sediments and to evaluate the various factors that control sediment composition.
3. From combined U-Pb zircon and whole rock Sm-Nd studies to see if the apparent 2.4 Ga continental crust generation gap is real.
4. To employ new techniques in the dating of individual zircons to more fully understand Proterozoic tectonic history and the role of crustal reworking.
5. From trace element ratios and Nd isotopic data from basalts to better understand Proterozoic mantle evolution.
6. To encourage more detailed studies of the anorogenic granite-anorthosite association to better understand its origin and significance in terms of crustal evolution.
7. From combined Nd-Pb and Sr isotopic data to more precisely estimate the amount of new continental crust formed during the Proterozoic.
8. To encourage joint P-T and geochronological studies of Proterozoic and high grade terranes to better understand Proterozoic orogenesis.
9. To try and understand why hydrothermal precious metal deposits are relatively rare in the Proterozoic compared to both the Archean and the Phanerozoic.

The book should be of interest to professionals in the geosciences, especially geochemists, petrologists and structural geologists and graduate students in the same fields.

Milestones in Geology Michael John Le Bas, 1995. *Milestones in Petrology and Future Perspectives*, 2003. Contributed articles with reference to India.

1.9 Ga Tholeiitic Magmatism and Related Ni-Cu Deposition in the Juva Area, SE Finland Hannu V. Makkonen, 1996.

The Citronen Fjord Massive Sulphide Deposit, Peary Land, North Greenland Frank W. Van der Stijl, Henrik Tirsgaard, 1997. *Memoir*, 1958. **Accretion and Evolution of an Archaean High-grade Grey Gneiss-amphibolite Complex** Jon R. Ineson, Adam A. Garde, Gregers Dam, Peter R. Dawes, 1997. *Igneous Petrology*, 2007. Contributed papers presented at a national workshop organized by Dept of Geology, University of Calcutta in early part of 2005.

Current Research in Britain, 1991. **Accretion and Evolution of an Archaean High-grade Grey Gneiss-amphibolite Complex**

Adam A. Garde,1997 **Mantle Dynamics and Plate Interactions in East Asia** Martin F. J. Flower,1998-02-04 Published by the American Geophysical Union as part of the Geodynamics Series Volume 27 Geophysical imaging techniques and petrologic probes are yielding dramatic new evidence of the structure and dynamic impact of mantle on plate kinematics The thin viscous sheet and extrusion tectonics models explain much of Asian geology in terms of the Indo Eurasian collision Enigmatic features remain however including the rapid post Mesozoic formation of western Pacific marginal basins widespread postextrusion basalt and shoshonite magmatism and the presence of isotopically anomalous asthenosphere beneath the region **Gondwana Research** ,2003 *Abstracts, 30th International Geological Congress: Stratigraphy* ,1996 *Abstracts* ,1996 *Economic Geology and the Bulletin of the Society of Economic Geologists* ,2008

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