

# Tectonics, Magmatism, and Metallogeny of Mongolia

*Edited by*  
**A. B. Dergunov**

# Tectonics Magmatism And Metallogeny Of Mongolia

**Sergei Diakov, Samand Sanjdorj, Galsan  
Jamsrandorj**

## **Tectonics Magmatism And Metallogeny Of Mongolia:**

**Tectonics, Magmatism, and Metallogeny of Mongolia** A. B. Dergunov, 2001 This volume provides a systematic description of the most important geological structures of Mongolia and discusses the main features of these structures and their interactions The reconstitution of palaeotectonic zonation of the Caledonian and Hercynian basins is presented and the difference in their geotectonic nature is demonstrated The main characteristics of magmatism are described for each stage of tectonic development and the evolution of magmatism is considered with reference to lithosphere development The volume also includes results of an isotopic geochemical study which provides information on the evolution of the Central Asia mantle Mongolia is a key region of the world and this volume provides a primary source of reference for postgraduates and researchers

**Tectonics, Magmatism and Metallogeny of Mongolia** A.B Dergunov, 2004-11-23 This volume provides the first systematic description of the most important geological structures of Mongolia and discusses the main features of these structures and their interactions The main characteristics of magmatism are described for each stage of tectonic development and the evolution of magmatism is considered with reference to lithosphere development Mongolia is a key region of the world and this volume provides a primary source of reference for postgraduates and researchers

**Mineral Resources of Mongolia** Ochir Gerel, Franco Pirajno, Bayaraa Batkhishig, Jaroslav Dostal, 2020-12-02 This book provides a brief geology tectonic structure and metallogeny of Mongolia central part of the giant Central Asian Orogenic Belt and broad overview of major metallic copper gold rare metals and rare earths iron lead and zinc silver and platinum group non metallic phosphorite and fluorspar and fuel uranium and coal mineral deposits and occurrences covering their tectonic position metallogeny and deposit types geological characteristics and origin including newly found deposits and occurrences based on authors research data and a large information obtained during geological exploration work The book is intended for professional economic geologists for earth science students and practicing geologists

**Tectonics of Asia (Northern, Central and Eastern Asia)** Oleg V. Petrov, Shuwen Dong, 2021-03-03 The book provides the results of tectonic geological and geophysical studies of Northern Central and Eastern Asia obtained over the last 20 years and a Tectonic map for this area overview as well as essays on its geodynamic evolution These new results were obtained by an international team of specialists within the project Atlas of geological maps of Central Asia and adjacent areas scale 1:2 500 000 initiated in 2003 by geological surveys of Russia China Mongolia Kazakhstan and South Korea under the auspices of the CGMW The most of the book contains the descriptions of the tectonic structure of major geological regions of Asia such as the Ural Sayan Baikal and Tien Shan orogenic systems The tectonic structure of the Pamirs Turan Plate Mongolia Southern China Korea and other regions is also discussed The book contains maps of gravity and magnetic anomalies sketch maps of deep structures of the area and the geotranssect crossing the most important geological structures of Asia The final chapter of the book describes the tectonic evolution of the Central Asian Orogenic Belt from the Neoproterozoic to the Mesozoic

**Geological Evolution**

**of Central Asian Basins and the Western Tien Shan Range** Marie-Françoise Brunet, Tom McCann, Edward R. Sobel, 2017-10-10 The geological evolution of Central Asia commenced with the formation of a complex Precambrian Palaeozoic orogen Cimmerian blocks were then accreted to the southern margin in the Mesozoic leading to tectonic reactivation of older structures and discrete episodes of basin formation The Indian and Arabian blocks collided with Asia in the Cenozoic leading to renewed structural reactivation intracontinental deformation and basin development This complex evolution resulted in the present day setting of an elongated Tien Shan range flanked by large Mesozoic Cenozoic sedimentary basins with smaller intramontane basins distributed within the range This volume presents multidisciplinary results and reviews from research groups in Europe and Central Asia that focus on the western part of the Tien Shan and some of the adjacent large sedimentary basins These works elucidate the Late Palaeozoic Cenozoic tectono sedimentary evolution of the area Emphasis is given to the collision of terranes and continents and the ensuing fault reactivations The impact of climatic changes on sedimentation is also examined

#### **Alkaline Rocks and Carbonatites of the World, Part 4**

A.R. Woolley, 2019-09-02 The alkaline igneous rocks and carbonatites are compositionally and mineralogically the most diverse of all igneous rocks and apart from their scientific interest are of major and growing economic importance They are important repositories of certain metals and commodities indeed the only significant sources of some of them and include Nb the rare earths Cu V diamond phosphate vermiculite bauxite raw materials for the manufacture of ceramics and potentially Th and U The economic potential of these rocks is now widely appreciated particularly since the commencement of the mining of the Palabora carbonatite for copper and a host of valuable by products Similarly the crucial economic dominance of rare earth production from carbonatite related occurrences in China has stimulated the world wide hunt for similar deposits This volume describes and provides ready access to the literature for all known occurrences of alkaline igneous rocks and carbonatites of Antarctica Asia and Europe excluding the former USSR Australasia and oceanic islands More than 1 200 occurrences from 59 countries are outlined together with those of 57 oceanic islands and island groups The descriptions include geographical coordinates and information on general geology rock types petrography mineralogy age and economic aspects with the principal references cited There are 429 geological and distribution maps and a locality index As has been demonstrated by the three earlier volumes the present book is likely to be of considerable interest to mineral exploration companies as there are no comprehensive published reviews of the economic aspects of the alkaline rocks It will also interest research scientists in the fields of igneous petrology and volcanology and geologists concerned with the regional distribution of igneous rocks and their geodynamic relationships

#### **Main Tectonic Events and Metallogeny of the North China**

**Craton** Mingguo Zhai, Yue Zhao, Taiping Zhao, 2016-07-25 This book focuses on the metallogeny and main tectonic events of the North China Craton from early Precambrian to Phanerozoic It covers the Archean crustal growth Paleoproterozoic rifting subduction collision processes Great Oxidation Event Meso Neoproterozoic multiple rifting Phanerozoic reworking of the

North China Craton as well as metallogeny related to above different processes The North China Craton is one of the oldest cratons in the world It has experienced a complex geological evolution since the early Precambrian and carries important records of secular changes in tectonics and metallogeny It provides a systematic review and new results on the growth and evolution of the North China Craton and metallogeny It will be of broad interest to the earth scientists working in the fields of economic geology geochemistry and tectonics of the North China Craton and eastern Asian **Petrology**, 2003

**Izvestiya Akademii Nauk SSSR.** Akademii nauk SSSR., 1958 **Metallogeny and Global Tectonics** Wilfred Walker, 1976 Uranium Deposits of Mongolia Jamsrandorj Galsan, 2025-04-21 This book contained the geological investigation condition of the territory of Mongolia for uranium the geodynamic position of the uranium mineralization To delineate metallogenic zoning for uranium in the territory of Mongolia we determined geodynamic settings based on the development of geological complexes and formations with which uranium mineralization is related both genetically and spatially It should be noted that a larger number of NRE radio geochemical anomalies are associated with various types of rocks of different ages and genesis However a careful study of the distribution and composition of these rocks showed that uranium mineralization is associated with igneous rocks of active continental margins and their back arc back arc structures of rift origin In addition mostly in Eastern and Northern Mongolia uranium mineralization is also associated with alkaline bimodal volcanic of the rift origin This pattern has been noted previously by various researchers The main regularities in the distribution of uranium objects based on the geodynamic position of tectonics are revealed uranium bearing provinces zones and districts are characterized uranium ore epochs are identified the main genetic types of genetic uranium deposits according to the IAEA classification of uranium deposits the state of uranium reserves and resources in Mongolia is given The characteristics of the geological structure of all uranium deposits in Mongolia are given According to the classification of uranium deposits Franz J Dahlkamp 2015 by the IAEA the following types of uranium deposits can be distinguished on the territory of Mongolia sandstone deposits deposits related with volcanic rocks deposits related with granites deposits related with intrusions deposits related with metasomatites deposits related with lignites and coals deposits related with phosphorites deposits related with black shales near surface deposits of which the first 2 types are the most studied The rest are distinguished only by direct prospecting signs and need detailed study in the future and have good prospects for increasing Mongolia s uranium reserves The main share 66 69% of Mongolia s reserves falls on the deposits of the East Mongolian and Gobi uranium zones where sandstone deposits are common Deposits related with volcanic rocks in the Eastern zone occupy about 25 19% of Mongolia s uranium reserves The book is intended not only for geologists specialists and scientists in the field of uranium geology but for investors in geological exploration and exploitation in Mongolia for uranium **Proceedings of the 27th International Geological Congress**, 1984-12 **Magmatism and Geodynamics** O A Bagatikov, 2020-07-16 Magmatism is the only true endogenic process for generating new material on the Earth s surface

Obviously magmatism and tectonic movements are reflections of geodynamics that is physical processes which occur in deep seated environments What are the interrelationships between magmatism and tectonics How did the character of terrestrial magmatism change through time and are there any irregularities in this process **Discovery of Oyu Tolgoi** Sergei

Diakov, Samand Sanjdorj, Galsan Jamsrandorj, 2018-11-19 *Discovery of Oyu Tolgoi A Case Study of Mineral and Geological Exploration* provides a detailed account of the exploration for copper deposits that took place in Mongolia in the mid 1990s an exploration that was first started by Magma Copper and then continued by BHP Billiton World Exploration Inc and which subsequently lead to the discovery of Oyu Tolgoi a major metal mine This book commemorates the 20 year anniversary for the global mining industry including details on exploration methods the tools applied throughout the discovery and how the applied models evolved over the course of the execution of the exploration program In addition the book presents how the knowledge of the team evolved as they further understood the regional geology and the necessary geological conditions for a significant porphyry discovery Includes a detailed description of the anthology of the Oyu Tolgoi mine discovery a major copper gold porphyry deposit Offers practical lessons for exploration companies through coverage of the critical factors that lead to the success of the discovery along with the institutional factors that hindered discovery Features nearly 70 never before seen full color illustrations and photos of Oyu Tolgoi *Geothermal Energy* Geothermal Resources Council.

Meeting, 2004 Geological Correlation, 1996 Petrology of Polygenic Mafic-Ultramafic Massifs of the East Sakhalin Ophiolite Association Felix P. Lesnov, 2017-01-12 The monograph is concerned with results of studies of petrology of mafic ultramafic massifs as part of the East Sakhalin ophiolite association It generalizes and interprets a large body of data mainly original data on geology petrography petrochemistry and geochemistry of rocks mineralogy and geochemistry of rock forming and accessory minerals chromite and platinum contents and isotopic age of zircons from rocks of the typical mafic ultramafic massifs of the East Sakhalin ophiolite association Berezovka Shel ting Komsomol sk and South Schmidt Gabbroids from the Berezovka massif contain ultramafic xenoliths Ultramafic rocks are locally cut by gabbroid and pyroxenite veins Three spatially close but genetically autonomous bodies are distinguished in the structure of the massifs under study protrusion of upper mantle restitic ultramafic rocks harzburgites lherzolites and dunites intrusion of orthomagmatic gabbroids gabbro-norites gabbro and norites that cuts it and contact reaction zone located along the boundaries between gabbroid intrusion and ultramafic protrusion which consists of hybrid ultramafic rocks wehrlites websterites clinopyroxenites and their olivine and plagioclase containing varieties and hybrid gabbroids melano and mesocratic olivine gabbro-norites and gabbro as well as troctolites The hybrid ultramafic rocks and gabbroids are the product of interaction between mafic melts and restitic ultramafic rocks Taking into account the later formation of the gabbroid intrusions compared to the ultramafic protrusions the massifs in question are determined as polygenic The idea of their polygenic formation is supported by data on the isotopic age of zircons from the Berezovka massif rocks In this monograph the author develops his earlier proposed

concept of polygenic formation of mafic ultramafic massifs belonging to ophiolite associations The book addresses a wide circle of petrologists and practicing geologists as well as senior year students and postgraduates studying problems of mafic ultramafic magmatism     (Paleo-) Pacific Plate Subduction Tectonics and Related Magmatism and Mineralization Fan Yang, Fei Xue, Gilby Jepson, Liang Zhang, 2023-07-31     Geology and Metallogeny of Copper Deposits Günther H. Friedrich, Alexandr D. Genkin, Anthony L. Naldrett, John D. Ridge, Richard H. Sillitoe, Frank M. Vokes, 2012-12-06     *Doklady Earth Sciences* ,2007

## **Tectonics Magmatism And Metallogeny Of Mongolia** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Tectonics Magmatism And Metallogeny Of Mongolia**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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### **Table of Contents Tectonics Magmatism And Metallogeny Of Mongolia**

1. Understanding the eBook Tectonics Magmatism And Metallogeny Of Mongolia
  - The Rise of Digital Reading Tectonics Magmatism And Metallogeny Of Mongolia
  - Advantages of eBooks Over Traditional Books
2. Identifying Tectonics Magmatism And Metallogeny Of Mongolia
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Tectonics Magmatism And Metallogeny Of Mongolia
  - User-Friendly Interface
4. Exploring eBook Recommendations from Tectonics Magmatism And Metallogeny Of Mongolia
  - Personalized Recommendations
  - Tectonics Magmatism And Metallogeny Of Mongolia User Reviews and Ratings
  - Tectonics Magmatism And Metallogeny Of Mongolia and Bestseller Lists



5. Accessing Tectonics Magmatism And Metallogeny Of Mongolia Free and Paid eBooks
  - Tectonics Magmatism And Metallogeny Of Mongolia Public Domain eBooks
  - Tectonics Magmatism And Metallogeny Of Mongolia eBook Subscription Services
  - Tectonics Magmatism And Metallogeny Of Mongolia Budget-Friendly Options
6. Navigating Tectonics Magmatism And Metallogeny Of Mongolia eBook Formats
  - ePub, PDF, MOBI, and More
  - Tectonics Magmatism And Metallogeny Of Mongolia Compatibility with Devices
  - Tectonics Magmatism And Metallogeny Of Mongolia Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Tectonics Magmatism And Metallogeny Of Mongolia
  - Highlighting and Note-Taking Tectonics Magmatism And Metallogeny Of Mongolia
  - Interactive Elements Tectonics Magmatism And Metallogeny Of Mongolia
8. Staying Engaged with Tectonics Magmatism And Metallogeny Of Mongolia
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Tectonics Magmatism And Metallogeny Of Mongolia
9. Balancing eBooks and Physical Books Tectonics Magmatism And Metallogeny Of Mongolia
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Tectonics Magmatism And Metallogeny Of Mongolia
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Tectonics Magmatism And Metallogeny Of Mongolia
  - Setting Reading Goals Tectonics Magmatism And Metallogeny Of Mongolia
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Tectonics Magmatism And Metallogeny Of Mongolia
  - Fact-Checking eBook Content of Tectonics Magmatism And Metallogeny Of Mongolia
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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