1. Record Nr. UNINA9910299422503321

Titolo	Precambrian Geology of China / / edited by Mingguo Zhai
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-47885-4
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (389 p.)
Collana	Springer Geology, , 2197-9545
Disciplina	550
Soggetti	Geology Geochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; Contents; Part I General Precambrian Geology in China; 1 General Precambrian Geology in China; Abstract; 1 Introduction; 2 Division of Precambrian Complex and Stratigraphy in China; 2.1 General Division; 2.2 Distribution of the Precambrian Rocks in China; 3 The North China Block; 3.1 Early Crustal Growth and Cratonization (Add Multistage); 3.2 Paleoproterozoic Geology in the NCB; 3.3 Late Paleoproterozoic--Neoproterozoic Multiple Rifts (Add Discussion); 3.4 Metallogeny in the NCB; 4 The Tarim Block; 4.1 The Archean Basement Rocks in the Tarim Block 4.2 The Paleoproterozoic Metamorphic and Magmatic Rocks in the Tarim Block4.3 Neoproterozoic Sedimentary Rocks and Glacial Events in the Tarim Block; 5 The South China Block; 5.1 Yangtze Block; 5.1.1 The Crystalline Basement in the Yangtze Block; 5.1.2 The Early Neoproterozoic Volcanic-Sedimentary Rocks and Intrusions; 5.1.3 Sinian System; 5.2 Cathaysia Block; 5.3 The Formation of the Jiangnan Orogenic Belt and Formation of the South China Block; 6 Assembly of Chinese Unified Continent; Acknowledgements; References; Part II The North China Craton 2 Formation and Evolution of Archean Continental Crust of the North China CratonAbstract; 1 Introduction; 2 Archean Geological Record; 2.1 Eoarchean (greaterthan 3.6 Ga); 2.2 Paleoarchean (3.6--3.2 Ga); 2.3 Mesoarchean (3.2--2.8 Ga); 2.4 Neoarchean (2.8--2.5 Ga); 2.4.1 Early Neoarchean (2.8--2.6 Ga); 2.4.2 Late Neoarchean (2.6--2.5 Ga); 3

Distribution of Zircon Ages and Isotope Geochemistry; 3.1 Zircon Age Distribution; 3.2 Whole-Rock Nd Isotopic Composition; 3.3 Hf-in-Zircon Isotopic Composition; 4 Formation and Evolution of the Archean Basement of the NCC; 4.1 Temporal Evolution
4.2 Ancient Material Records Beneath the NCC4.3 Major Periods of Continent Formation; 4.4 Tectonic Subdivision of the NCC; 4.5 Tectonic Regime; 4.6 Craton Stabilization; 5 Summary and Conclusions; Acknowledgements; References; 3 Paleoproterozoic Granulites in the North China Craton and Their Geological Implications; Abstract; 1 Distribution of the Paleoproterozoic Granulites in the North China Craton; 2 High-Pressure Granulite in the North China Craton; 2.1 Huai'an-Xuanhua Region; 2.2 Hengshan Region; 2.3 Wutai--Fuping Region; 2.4 Zanhuang Region; 2.5 Jiaobei Region
2.6 Qianlishan--Helanshan Region2.7 Liaohe, Lvliang, and Other Regions; 3 (Ultra-)High-Temperature Granulite in the North China Craton; 3.1 Jining--Liangcheng--Zhuozi Region; 3.2 Daqingshan Region; 4 Geological Implications of the Paleoproterozoic Granulite; References; 4 Late Paleoproterozoic--Neoproterozoic (1800--541 Ma) Mafic Dyke Swarms and Rifts in North China; Abstract; 1 Major Mafic Dyke Swarms and Other Igneous Events; 1.1 The 1800--1730 Ma Igneous Events; 1.1.1 The 1780--1770 Ma Taihang Dyke Swarm; 1.1.2 The 1730 Ma Miyun Dyke Swarm; 1.2 The 1730--1600 Ma Igneous Events
1.2.1 The 1730--1680 Ma Damiao--Shachang Anorthosite--Rapakivi Granite--Dyke Complexes

Sommario/riassunto

This book is the first contribution to the overview of Precambrian geology of China. It covers Precambrian geology of the North China Craton, the South China Craton, and the Tarim Craton, as well as other smaller blocks in the Chinese orogenic belts. It provides systematic concepts of the Chinese paleo-continents and incorporates the most up-to-date achievements. Edited by many of the active researchers working at the forefront of the related fields, it contributes greatly to the international Precambrian geology community, and would be of interest to geoscientists working in the research field of geology of China and Precambrian geodynamics.