## GEOLOGICAL REVIEW

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华北克拉通东部新元古代宏体化石生物地层序列 点此下载全文

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摘要:

关键词: 华北克拉通东部 新元古代 宏体化石 生物地层序列 地层对比

Macrofossil Records of the Neoproterozoic in the Eastern of North China Craton: An Implement of Neoproterozoic Biostratigraphy Download Fulltext

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Abstract:

The most complete and continuous strata of Late Precambrian in China are known to occur in the east area of North China Craton, especially in the east margin of North China craton yield the whole Neoproterozoic sedimentary sequences from bottom to top, which are the crucial strata for stratigraphic correlation and linking the Neoproterozoic between North and South China. The macrofossil assemblage (i.e. Longfengshan Biota, Liaonan Biota and Huainan Biota) discovered and established in this area might have been recognized as several distinctive and diverse communities preceded or followed "the Nanhuan during the Neoproterozoic era. Large quantities of these Neoproterozoic macrofossils have generally been interpreted as multicellular metaphytes and metazoans which are the important representatives of the ancient life in the surface of the  $1000{\sim}542$  Ma earth. Therefore, the researches of Neoproterozoic organisms that are very important in the evolutionary biology will reveal the trends of multicellular organism evolution that is earlier than the Doushantuo Period. In recent years, a lot of significant advancements in the study of Neoproterozoic paleoontology and stratigraphy upon which are focused international attentions include the discoveries of animal embryo fossils in the lower Doushantuo Formation, and accurate zircon U Pb ages at the bottom and the top of Doushantuo Formation as well. In contrast, lack of support of the large projects delays the progress of the Neoproterozoic studies in the eastern of North China Craton. Under the recent financial aids of Geological Survey Project, in this study we have concluded the previous works and documented in detail the Neoproterozoic layers bearing the macrofossils in Yanshan area (including Jixian section), South Liaoning area and Xuzhou-Huainan area, as well as recorded the morphological features, the assemblages and the stratigraphic sequences of these complex macroscopic organisms that flourished on the eve of the Cambrian radiation of animals. On the basis of macrofossil records, writers have also discussed the Neoproterozoic, especially Nanhuan and Ediacaran stratigraphic correlation and division between North and South China, and thereout put forward the preliminary scheme of contrast

Keywords: the eastern of North China Craton <u>Neoproterozoic</u> <u>macrofossil records and assemblages</u> <u>biostratigraphic</u> successions and correlation

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