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华北陆块东北缘张三沟岩组SHRIMP锆石U-Pb年代学研究及其地质意义 点此下载全文

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摘要:

出露于华北陆块东北缘的张三沟岩组为一套变质火山一沉积岩系,前人根据变质程度和地层对比将其划归U-Pb年代学研究,获得2517±9 Ma 、2518±7 Ma 和2534±26Ma原岩年龄,2439±24Ma、2464±73Ma和2433±7层形成于新太古代晚期,变质时代在新太古代末一古元古代初。结合区域资料,其变质年龄可能代表了古龙岗阳(如佳木斯陆块)碰撞造山的时代,表明华北克拉通在新太古代末一古元古代初期经历过一次重要的克拉通化。

关键词: SHRIMP年代学 张三沟岩组 华北陆块东北缘 吉林

Zircon SHRIMP Geochronology of the Zhangsangou Formation-Complex in the Northeastern Block, and its Geological Significance Download Fulltext

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Abstract:

Zhangsangou Formation-Complex is located in the northeastern margin of North China Block, which considered to be Paleoproterozoic metamorphic volcanic-sedimentary sequences, mainly according to regional stratigraphic correlation. Based on our filed investigation and SHRIMP dating, three samp Formation-Complex have yielded protolith age of 2517 ± 9 Ma, 2518 ± 7 Ma, 2534 ± 26 Ma and metamorphic 73M and 2433 ± 71 Ma, respectively, indicating that it formed in late Neoarchean and reworked in lare Paleoproterozoic by metamorphinism. In combination with regional geological data, we show that its related to a collisional tectonism between ancient Longgang's continental bolck and other continuation that North China Block developed a cratonization in late Neoarchean-early Paleoproterozoic.

Keywords: SHRIMP geochronology Zhangsangou Formatoin-Complex northeastern margin of North China

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