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吉林南部变质岩太古宙—元古宙分界时限的确定及过渡性构造演化 [点此下载全文](#)

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摘要:

吉林南部古老岩石测年数据偏新和太古宙与元古宙之间分界时限的混乱, 本文运用Sm-Nd等时线法和锆石U-Pb法将吉林南部变质岩系划分为4个年龄段: 前阜平旋回($>2600\text{ Ma}$); 阜平旋回第一幕($2600\text{--}2500\text{ Ma}$); 阜平旋回第二幕($2500\text{--}2400\text{ Ma}$); 阜平旋回第三幕($2400\text{--}2350\text{ Ma}$)。阜平旋回第三幕归入太古宙并作为太古宙—元古宙之间分界时限, 吉林南部古陆构造环境由活动趋向于稳定, 新、老

关键词: [变质岩系](#) [太古宙—元古宙](#) [分界时限](#) [构造演化](#)

Determination of the Archaean-Proterozoic Boundary for the Metamorphic Rocks and the Transitional Tectonic Evolution in Southern Jilin [Download Fulltext](#)

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Abstract:

In consideration of the fact that previous age data of the old rocks in southern Jilin were somewhat too young, and there is some confusion concerning the boundary between the Archaean and the Proterozoic Eon, this paper, by using the Sm-Nd isochron and zircon U-Pb dating methods, divides the metamorphic rocks in this region into 4 intervals: the pre-Fuping cycle (before 2600 Ma), the first phase (2600-2500 Ma), the second phase (2500-2400 Ma) and the third phase (2400-2350 Ma) of the Fuping cycle. The third phase is classified into the Archaean and acting as the boundary between the Archaean and the Proterozoic. When the tectonic setting of the southern Jilin old land turned from active to stable, there occurred alternation of the trench-arc-basin system in the new and old plates, as well as crustal uplift and erosion, which resulted in the younger K-Ar ages. Therefore, to include the transitional tectonic setting and the geologic events occurring in the interval 2400 - 2350 Ma into the Archaean will be helpful to our understanding of the crustal evolution of this region, and the formation of the Banshigou greenstone belt iron deposit and the Jiapiyou shear zone gold deposit.

Keywords: [metamorphic rocks](#) [Archaean and Proterozoic boundary](#) [tectonic evolution](#) [southern Jilin](#)

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