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大别山前寒武纪变质地体基本组成 [点此下载全文](#)

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摘要:

本文以新城—圪春断裂为界将大别山前寒武纪变质地体划分为华北陆块南缘和扬子陆块北缘两个次级变质地体。构造变形方面明显不同, 而且在物质成分上有显著差异, 它们有各自独立的变质地层系统, 遭受了不同类型岩浆活动图象, 上述差异均可指示华北, 扬子两古陆碰撞对接时扬子陆块北缘向北俯冲至华北陆块南缘之下, 这可能始至中生代最终结束的长期复杂

关键词: [变质地体](#) [地层](#) [前寒武纪](#) [大陆边缘](#)

THE MAIN COMPOSITION OF THE PRECAMBRIAN METAMORPHIC TERRANE IN THE DABIE MOUNTAINS

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Abstract:

The precambrian terrane in the Dabie Mountains is a composite metamorphic terrane formed, most convergence between the North China and Yangtze continental blocks. The Xingcheng-Qichung fault zone is an important tectonic boundary within this composite terrane. In the present paper the terrane is divided into two tectonic units (second-order metamorphic terranes) by that tectonic boundary: the metamorphic terrane on the south margin of the Yangtze continental block (NMY) in the south and the metamorphic terrane on the north margin of the continental block (SMNC) in the north. The two metamorphic terranes show significant differences not only in tectonic deformation but also in their material composition. The differences in material composition include metamorphic stratigraphy, metamorphism and magmatism. The two metamorphic terranes are characterized by entirely different features. The differences in composition of the southern and northern Dabie terranes indicate that during the convergence of the two continental blocks the NMY might have been subducted northward beneath the SMNC. This would be an orogenic process which had probably begun in the Mid-Late Proterozoic and ended in the Jurassic. The metamorphic terrane suggests a two-stage convergence. The geological characteristics of eclogite in the rocks show that some of the eclogite were probably brought up by ultramafic magma from the deep level of the lower crust and then emplaced to the shallow level of the crust by tectonic processes.

Keywords: [metamorphic terrane](#) [continental margin](#) [Pt-Path of metamorphism](#) [collision-convergence](#)