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扬子地块泥盆纪—石炭纪古地磁新结果及其古地地理意义 [点此下载全文](#)

[张世红](#) [朱鸿](#)

中国地质大学, 北京, 100083

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摘要:

本文通过对扬子地块西南缘贵州独山—平塘地区泥盆—石炭纪316块定向岩心样品的系统退磁处理, 揭示出晚侏罗世、新生代两期重磁化。73个岩心样品, 分布在早—中泥盆世(17个)、晚泥盆世(25个)、早石炭世(24个)和中—晚石炭世(7个)4个统计单元, 得到了最可能的原生剩磁。结合已有的古地磁数据, 修订了扬子地块极移曲线, 纯利移曲线拟合的结果表明, 扬子地块在早古生代是冈瓦那大陆的组成部分, 与印度—喜马拉雅—澳大利亚地区临近。晚泥盆世、冈瓦那大陆发生大规模顺时针旋转, 扬子地块开始与之分离。

关键词: [扬子地块](#) [泥盆纪—石炭纪](#) [古地磁](#) [冈瓦那大陆](#) [地层构造](#) [极移曲线](#)

New Paleomagnetic Results from the Devonian-Carboniferous Successions in the Southern Yangtze Block and Their Paleogeographic Implications [Download Fulltext](#)

ZHANG Shihong, ZHU Hong, MENG Xiaohong School of the Earth and Land Resources, China University of Geosciences, Beijing, 100083

Fund Project:

Abstract:

A total of 316 oriented core samples collected from the Devonian-Carboniferous carbonate strata from the southern Yangtze block in the southern Guizhou Province were subjected to stepwise demagnetization. After removing the recent and Late Jurassic overprint components, inferred primary magnetic remnants was isolated from 73 samples in four rock units. There are 17, 25, 24 and 7 samples in the Early-Middle Devonian, Late Devonian, Early Carboniferous and Middle-Late Carboniferous respectively. With the available data, we have revised the apparent polar wander path (APWP) of the Yangtze Block. By APWPs fitting, it is suggested that the Yangtze block was part of Gondwana during the Early Paleozoic and Early-Middle Devonian, and located along the Great India-Australia margin of Gondwana. In the Late Devonian, the Yangtze block began to separate from the supercontinent as Gondwana significantly rotated clockwise.

Keywords: [Yangtze block](#) [Devonian-Carboniferous](#) [paleomagnetism](#) [Gondwana](#)

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