

## GEOLOGICAL REVIEW

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秦岭勉略构造混杂带康县—勉县段蛇绿岩块—铁镁质岩块的SHRIMP年代及其意义 点此下载全文

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摘要:

本文对秦岭勉略(勉县—略阳)构造混杂带康县—勉县段的铁镁质岩块或蛇绿岩块进行了系统的锆石SHRIMP U Pb年代学研究。测年结果表明,勉略构造混杂带康县—勉县段铁镁质岩块的形成时代为841±16-812±11Ma,蛇绿混杂岩中的辉长岩和辉绿岩块的形成时代为827±14-808±10Ma。从西向东,勉略构造混杂带不同地段蛇绿岩块或铁镁质岩块的锆石U Pb同位素年龄在误差范围内相同,表明勉略混杂岩带中的蛇绿岩块所代表的是新元古代古洋壳残片。中部三岔子斜长花岗岩的形成年龄(923Ma±13)大于其他铁镁质岩块和蛇绿岩。

关键词: SHRIMP年龄 新元古代大洋 勉略构造混杂带 秦岭

SHRIMP Analyses for Ophiolitic—Mafic Blocks in the Kangxian—Mianxian Section of the Mianxian—Lueyang elange:Their Geological Implications <u>Download Fulltext</u>

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Abstract:

Traditionally, the Mianxian—Lueyang mélange(MLM) was interpreted to be a suture when the south and north China blocks collided in the early Mesozoic. The ophiolitic and mafic blocks in the MLM were considered as the remnants of a Devonian regenerated oceanic basin. SHRIMP U Pb analyses for zircon grains in this paper showed that the ophiolitic blocks (sample SCZ 11, XKY 8 and GYY 1) in the Kangxian—Mianxian section of the MLM were formed in the Neoproterozoic, ca 841±16-812±11Ma. SHRIMP dating results yielded ages of 827±14-808±10Ma to the mafic blocks (sample B126, B136 and B175) in the MLM. However, a plagiogranite block (sample SCZ 9) in the middle of the MLM near a small town Sancazi was dated at ca 923±13Ma, significantly older than other ophiolitic and mafic blocks. The ages of the ophiolitic and mafic blocks are greatly excellent with each other within the errors. As a result, the update results in the present paper indicated that those ophiolitic and mafic blocks in the MLM are actually the remnants of a Neoproterozoic ocean basin, rather than the so called Devonian regenerated ocean basin as previously.

Keywords: SHRIMP dating Mianxian—Lueyang mélange Neoproterozoic ocean Qinling Mountains

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