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论"华夏古大陆"一铅同位素研究证据 点此下载全文

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摘要:

我国东南部地区一批中生代花岗岩类岩石中长石铅同位素数据表明,至少可将该地区地壳基底岩石划分三〕包括江一绍断裂带以南,赣江一河源断裂以东和政和一大埔断裂中,南段以西地区,它们的中生代花岗岩长石铅际Pb,^207Pb/^204Pb和^204Pb/^204Pb三组比值平均分别为18.226;15.(体为闽台块体,即政和一大埔断

关键词: 铅同位素 华夏古大陆 断裂

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Fund Project:

Abstract:

A group of Mesozoic granitoid samples from southeastern China were systematically collected a feldspar lead isotopic data were obtained. In combination with published data, the possiblity of ex discussed according to the principle that the lead isotopic composition of feldspar can reflect the of basement rocks. The data indicates that the basement rocks of southeastern China can be divided the Wuyi block (B4-2 lead isotope province), which is bounded by the Jiang-Shao fault zone on the n Heyuan fault on west and by the central and southern sections of the Zhenhe-Dapu fault on the east 207Pb/ 204Pb and 208Pb/204Pb are 18.226, 15.620 and 38.725 respectively; II. the Fujian-Tai-wan blo province), covering an area to the east of the central and southern sections of the Zhenhe-Dapu fau 207Pb/204Pb and 208Pb/204Pb ratios of 18.534, 15.656 and 38.866 respectively, III. the Nanling-Hainan province), located west of the Ganjiarig-Heyuan fault, with three corresponding lead isotope ratios 38.924 -respectively. According to the relationships among the lead isotopic compositions of feldsp mentioned three block, it is proposed that the fundamental factor causing the differences among the for the U-Th-Pb system of source materials in particular tectonic and geochemical settings. Consequ existed, and actually it was formed by amalgamation of sthree basement blocks with different nature Tatwan block is an accretion zone along the Wuyi block, while the Taiwan block was separated from t the Late Mesozoic.

Keywords: Cathay lead isotope lead isotope province