



杨振宇. 贵州南部地区安尼阶底界锆石SHRIMP年龄结果[J]. 地质学报, 2010, 84(8): 1112-1117

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基金项目: 国家科技攻关计划

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摘要:

中国西南地区中下三叠统广泛发育多层凝灰岩, 贵州望谟甘河桥剖面安尼阶底界, 即中/下三叠统界线位上奥伦尼克阶/安尼阶(Olenekian-Anisian)界线层型牙形石划分标志Chiosella timorensis首现的位置。从少石的SHRIMP年龄测定, 获得 $206\text{Pb}/238\text{U}$ 加权平均年龄为 247.6 ± 1.7 (95% conf.) or ± 1.4 (2σ) Ma, 此结果与界线附近凝灰岩用TIMS方法得出的 $247.2\text{Ma} \pm 0.1\text{Ma}$ 年龄有很好的 consistency。望谟甘河桥剖面中下三叠统界线凝灰岩结果为区域地层对比和划分提供了新的年龄数据, 同时为研究三叠纪初期生物复苏时限提供了新的年龄参考。

关键词: [贵州望谟](#) [SHRIMP U-Pb定年](#) [中下三叠统](#) [安尼阶](#)

Zircon U-Pb Dating for the lower-middle Triassic tuff in Wangmo, Guizhou province

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Abstract:

New zircon U-Pb age are obtained for late Early and Middle Triassic tuff layer from the Gan country, Guizhou province. The first appearance of conodont Chiosella timorensis was discovered which is used to define the Olenekian-Anisian boundary in the lower/middle Triassic. Twenty zircon $206\text{Pb}/238\text{U}$ age of 247.6 ± 1.4 Ma (2σ). The new dates are in better agreement with a 247.2Ma age of section of Guizhou province, which were identified using TIMS method and were proposed for the boundary between the Olenekian and Anisian. The tuff layer found in the Ganheqiao section is wide distributed in southwest China. Our results provide a reliable dating for the duration of the early Triassic after the extinction of Permo-Triassic.

Keywords: [Wangmo](#) [U-Pb geochronology](#) [lower-middle Triassic](#) [Anisian stage](#)

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