

川西攀枝花—西昌地区结晶基底的划分

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摘要: 长期以来, 由于同位素年龄依据不足和没有正确区分晚二叠世热接触变质岩、喜马拉雅期动力变质岩与前震旦纪区域变质岩, 攀西地区结晶基底的划分存在许多困难和问题。本文依据1:50000区域地质调查结果, 将原仁和群(Pt1R)修改为晚二叠世岩浆岩和喜马拉雅期动力变质岩, 将五马箐(岩)组(Pt1w)和顶针杂岩(Pt1D)修改为晚二叠世热接触变质岩和喜山期动力变质岩, 将安宁村组(Pt1a)和纸房沟组(Pt1z)修改为震旦系地层, 并依据岩石学、岩石化学和微量元素地球化学特征, 将结晶基底划分为变质侵入体、变质表壳岩和TTG套岩, 论述了结晶基底的成因和演化。

关键词: 结晶基底; 划分; 动力变质岩; 热接触变质岩

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Classification of the crystalline basement in the Panzhi-Xichang area, Sichuan

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Abstract: Owing to lack of isotope age evidence and no correct differentiation of Late Permian thermal contact metamorphic rocks and Himalayan dynamometamorphic rocks from pre-Sinian regional metamorphic rocks, for a long time there have existed many difficulty and problems in the classification of the crystalline basement in the Panzhi-Xichang (called Panxi for short) area. On the basis of the results of 1:50000 regional geological survey, the original Renhe Group (Pt1R) is revised into Late Permian magmatic rocks and Himalayan dynamometamorphic rocks, the Wumaqing Formation-complex (Pt1w) and Dingzheng complex (Pt1D) are revised into late Permian thermal contact metamorphic rocks and Himalayan dynamothermal rocks, and the Anningcun Formation (Pt1a) and Zhifanggou formation (Pt1z) are revised into Sinian strata. In addition, according to the petrological, petrochemical and trace element geochemical characteristics, the crystalline basement is classified into metamorphosed intrusions, metamorphosed supracrustal rocks and the TTG suite, and the origin and evolution of the crystalline basement are also discussed.

Key words: crystalline basement; classification; dynamometamorphic rocks; thermal contact metamorphic rocks; western Sichuan