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羌塘中生代盆地演化特征

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Evolution Characteristics of the Qiangtang Basin in the Mesozoic Era

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摘要/Abstract

摘要:

羌塘盆地位于特提斯构造域的东段,分布在羌塘—昌都地块中西部,夹持于可可西里—金沙江与班公湖—怒江2条缝合带之间,包括中央隆起带在内残留面积约为 $18 \times 10^4 \text{ km}^2$,是青藏高原上面积最大的中生代海相残留盆地,勘探前景乐观。对于中生代时期羌塘盆地在特提斯域中的位置和盆地的性质,存在不同认识,综合分析后认为:羌塘盆地中生代属于劳亚大陆南缘,为一个典型的叠合盆地,先后经历了北羌塘前陆盆地演化阶段、羌南裂谷阶段、被动陆缘裂陷阶段、被动陆缘拗陷阶段和羌塘盆地萎缩阶段等5个演化阶段。

关键词: 构造演化, 特提斯构造域, 盆地性质, 叠合盆地, 中生代, 羌塘盆地

Abstract:

Qiangtang Basin is located in the east of Thethys structural domain, in the middle-west part of the Qiangtang-Changdu crustal block, between the two suture zones of Kokoxili-Jiangshajiang and the Bangonghu-Nujiang. Its area is about $18 \times 10^4 \text{ km}^2$ including central uplift belt. It's the biggest Mesozoic marine residual basin in the Qinghai-Tibet Plateau, and has great exploration potential. There are different ideas about the location in Thethys structural domain in Mesozoic and the basin's character. Based on comprehensive analysis, this study concludes that the basin is located in the south margin of the Laoya continent, and is a typical superimposed basin. It has undergone 5 evolutionary phases, including foreland basin of north Qiangtang, rift of south Qiangtang, passive margin rift stage, passive margin depression stage and fade phase.

Key words: Tectonic evolution, Thetys structural domain, Basin character, Superimposed basin, Mesozoic Era, Qiangtang Basin

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