

## 西藏札达盆地腹足类组合及生物地层学

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中文摘要:在西藏札达盆地古格组第四岩性段发现大量腹足类化石: *Adelinella regularis* Yü(规则小隐螺)、*Velutinopsis spiralis* Yü(旋纹似天鹅绒螺)、*Radix zandaensis* sp. nov.(札达萝卜螺)、*Hippeutis* cf. *minor* (Ping)(微小圆扁卷螺,称为小隐螺-似天鹅绒螺组合。根据这些腹足类化石在西藏西南部的分布特征,认为它们是分布于北喜马拉雅山间断陷盆地的一个腹足类组合,介于西藏犀类化石与杜氏珠蚌-河北珠蚌层之间,时代处于晚上新世-早更新世之间。对比现生种属研究认为,札达盆地腹足类应生活于近岸的浅湖环境。孢粉分析认为化石层形成时为温暖潮湿的森林-草原环境,化石层下部的三趾马生活在温暖而显干旱的灌丛草原环境,可知札达盆地由托林组至古格组,古气候经历了由温暖干旱向温暖潮湿的转变过程。

中文关键词:西藏 札达盆地 腹足类组合 古格组 上新世-早更新世

## The Assemblage of Gastropod Fossils in Zanda Basin of Tibet and Its Biostratigraphy

**Abstract:**A number of gastropod fossils were discovered in the 4th lithologic member of Guge Formation within Zanda basin of Tibet, with the identification of an assemblage of *Adelinella regularis*-*Velutinopsis* which comprises *Adelinella regularis* Yü, *Velutinopsis spiralis* Yü, *Radix zandaensis* sp. nov and *Hippeutis* cf. *minor* (Ping). Based on the distribution characteristics of these gastropod fossils in southwest Tibet, the authors regards them as a biological assemblage located in the intermontane fault basin in northern Himalayas, between the Rhino fossils layer and *Unio douglasiae* Giiffithet *Pidgeon*-*Unio tschiliensis* Sturany layer and with a paleomagnetic age of late Pliocene-Early Pleistocene. Based on a comparison with the existing species of gastropod, the authors hold that the gastropod in the fossil strata in Zanda basin might have lived in a shallow littoral lake environment. The sporopollen reveals that the place where the gastropod in the fossil strata lived was an environment of warm and moist forest-grasslands. Hipparion in the lower gastropods fossil layer in Zanda basin indicates a warm and arid shrub-grassland environment. Consequently, the paleo-climate during the deposition of the Tuolin Formation and Guge Formation experienced a transition from a warm and dry environment to a warm and humid environment.


**keywords:**[Tibet](#) [Zanda basin](#) [gastropod fossils assemblage](#) [Guge Formation](#) [Pliocene-early Pleistocene](#)

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