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0.7Ma以来的念青唐古拉山脉隆升过程——来自冰川剥蚀作用的证据 [点此下载全文](#)

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摘要:

通过对念青唐古拉山冰碛地层划分及冰碛物同位素测年, 发现最早一期冰碛物形成于0.7~0.6MaBP, 指示自中更新世以来念青唐古拉山脉开始隆升, 主峰地区发生了大规模的冰川剥蚀作用, 形成了大面积分布的冰碛高平台; 0.2~0.14MaBP念青唐古拉山又快速隆升, 并堆积了刚刚伸出各大沟谷口的高侧碛; 0.07~0.03MaBP念青唐古拉山再次小规模隆起, 形成各大沟谷内的侧碛和终碛垄; 0.01Ma BP还有小规模冰川活动。念青唐古拉山主峰地区的冰川剥蚀作用反映出的山脉隆升过程, 可较好地与青藏高原的隆起过程相对比, 它应是青藏高原隆升的响应。

关键词: [第四纪冰川](#) [同位素年龄](#) [剥蚀作用](#) [山脉隆升](#) [念青唐古拉山](#)

Doming of the Nyainqentanglha Mountains since 0.7 Ma from the Glacial Denudation Evidence [Download Fulltext](#)

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Abstract:

Based on the delimitation of the moraine in the Nyainqentanglha Mountains and the isotopic dating of moraine deposits, the writers have found that the oldest moraine deposit was formed during 0.7-0.6 Ma BP. This result indicates that the Nyainqentanglha Mountains began doming since the Middle Pleistocene, that glacier denudation occurred cosmically in the highest region, and that high moraine platforms were formed in large areas. The Nyainqentanglha Mountains domed rapidly again during 0.2-0.14 Ma BP; the high flanking moraines just protruding great ravines were accumulated. The Nyainqentanglha Mountains domed in miniature again during 0.07-0.03 Ma BP; the flanking moraines and terminal moraine knaps were formed in great ravines. There are still miniature glacial movements during 0.01 Ma BP. The glacier denudation in the highest region of the Nyainqentanglha Mountains reflects the doming process of the mountains, which can be well compared with the doming of the Qinghai-Tibet Plateau. The doming of the mountains should also be seen as the response of the doming of the Qinghai-Tibet Plateau.

Keywords: [Quaternary glacier](#) [isotopic age](#) [denudation](#) [range doming](#) [the Nyainqentanglha Mountains](#)

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