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非洲乍得盆地玄武岩K-Ar和39Ar-40Ar年代学及其动力学背景 [点此下载全文](#)

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摘要:

乍得的Doba、Bongor和Lake Chad盆地是早白垩世中非右行走滑应力场控制下形成的一系列中生代陆内大西洋打开有关。钻井揭示了盆地内分布有大量的中生代玄武岩。系统的K-Ar、Ar-Ar年代学研究发现, 至回, 即(1) 95-75Ma, 只分布于Doba盆地; (2) 66-52Ma, 分布于Bongor和Lake Chad盆地。研究表明, 乍得盆地展应力机制下的产物, 与白垩纪整个西中非地区的区域构造背景相一致, 岩浆作用与裂谷作用密切相关。

关键词: [玄武岩](#) [中生代](#) [乍得盆地](#) [非洲](#)

K-Ar and 39Ar-40Ar geochronology and geodynamics setting of Basalts from Chad basins: [Fulltext](#)

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Abstract:

Doba, Bongor and Lake Chad basins in Chad are intra-continental rifted basins, which were formed by the extensional stress field along the Central African Shear Zone during Mesozoic-Cenozoic times, related to the opening of the Equatorial and South Atlantic oceans. The boreholes exposed that numerous Mesozoic-Cenozoic basaltic basins which are poorly documented. A detailed chronology using K-Ar and Ar-Ar methods can recognize magmatic activity in the study areas: (1) 95-75Ma, occurring only in Doba basin; (2) 66-52Ma, well documented in Bongor and Lake Chad basin. Mesozoic-Cenozoic Volcanism in Chad basins probably is products of intraplate tectonics corresponded to the tectonic setting of the whole West and Central African during Cretaceous. Magmatism is related with rifting.

Keywords: [Basalts](#) [Mesozoic-Cenozoic](#) [Chad basins](#) [Africa](#)

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