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辽西早白垩世早期热河生物群沉积环境及古地理综合研究 [点此下载全文](#)

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摘要:

辽西地区早白垩世早期义县组以产出精美的热河生物群而闻名于世,热河生物群研究的每一个重要进展都引起国内外科学家的极大关注。然而热河生物群产出的古地理环境和盆地沉积特征的研究由于受到后期构造破坏和风化作用的影响,难以开展详细的野外工作,研究程度较低。本次系统的野外沉积学工作表明,辽西地区义县组6个沉积层形成于被动大陆边缘向前陆盆地演化过程中的各个阶段,区域沉积环境属于冲积扇-辫状河-曲流河-湖泊沉积体系。从老公沟层到金刚山层经历了沉积环境的频繁变化,岩相类型和岩石组合频繁更替,碎屑供给充分,快速沉积的演化过程,最终完成了盆地充填。全部沉积环境可进一步分为河流和湖泊两大类。河流沉积相在义县组各沉积层的早期占据主体部分,每一盆地构造演化旋回的沉积阶段都是从洪积扇到河流相开始的,并受当时的地质、地理和气候条件的差异分别向淡水湖泊沉积和咸水湖沉积演化。在以河流沉积为主的盆地充填阶段主要由洪(冲)积扇组合、洪泛平原组合和湖岸平原-三角洲组合三种组合模式构成。湖泊沉积主要由静水深湖沉积模式和半咸水湖的(膏盐)碳酸盐沉积模式构成。

关键词: [早白垩世](#) [热河生物群](#) [义县组](#) [沉积相](#)

Comprehensive Research on the Sedimentary Environment and Palaeogeography of Early Cretaceous Jehol Bita in Western Liaoning, China [Download Fulltext](#)

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Fund Project:

Abstract:

The Yixian Formation becomes world well-known by fancy Jehol bita fossils, each signify headway of bita research would bring both here and abroad scientists' attention. As a result of deuteritic tectonic destroy and weathering effect, the Jehol bita's palaeogeographic and basin sedimentary characteristics are hard to make detailed field works and nethermore research. This systematic field sedimentary indicates that 6 sedimentary strata of Yixian formation formed in different phases of passive continental margin to foreland basin evolving process, depositional environment attributes to alluvial fan-braided channel-meander-lacustrine system. From lower Laogonggou stratum up to Jingangshan one, the sedimentary environment was continuously changed. The lithofacies and rock sets was frequently replaced. The sedimentary clast abundantly supply, so the basin was rapidly filled in. The full sedimentary history could be divided into channel and lacustrine types. Fluvial facies possesses main body of early period, each basin tectonic cycle begins in alluvial-channel facies, they are affected by region geologic, geographic and climatic diversities, then develop into freshwater and saltwater lacustrine environments. In Filling moment, basins of predominating fluvial facies consists of alluvial fan sets, flood plain sets and lakeshore plain-delta sets. Lacustrine sediment models make up of logged-depth and brackish water(gypsi ferous) types.

Keywords: [Early Cretaceous](#) [Jehol bita](#) [Yixian Formation](#) [sedimentary facies](#)

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