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华北地区下寒武统的划分对比及其沉积演化 [点此下载全文](#)

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摘要:

华北地区下寒武统具有明显的“两灰两红”四套岩石组合, 代表两个潮湿—干旱的沉积旋回, 据此自下而上可分成辛集组、砾砂洞组、昌平组和馒头组四个岩石地层单元和 *Husaspis*、*Megapalaolenus fengyangensis* 和 *Redlichia chinesis* 三个化石带, 并可能分别与南方的筇竹寺阶、沧浪铺阶红井哨段、乌龙箐段和龙王庙阶相对比。早寒武世沉积时, 华北地台具有“北高南低、西高东低”的古地貌格局, 海水沿地台西南缘的贺兰—六盘拗陷和地台南缘的晋豫裂拗陷及豫—皖陆块依次北侵, 并在早寒武世末期浸漫了大部分华北古陆。早寒武世时, 郯庐断裂带东侧的吉南辽东地区可能位于地台南缘, 其沉积特征与断裂带西侧的豫皖苏鲁地区非常相似, 只是中生代发生了大规模的郯庐断裂左行平移才形成现今的地质构造格局。

关键词: [下寒武统](#) [地层划分](#) [地层对比](#) [沉积演化](#) [华北地台](#)

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Abstract:

Lower Cambrian in the North China is of “grey purplish red grey purplish red” stratigraphic sequences, which indicate two “normal evaporation” sedimentary cycles. The lower Cambrian is subdivided into four rock stratigraphic formations of Xinji Formation, Zhushadong Formation, Changping Formation, Mantou Formation and three trilobite zones of *Husaspis*、*Megapalaolenus fengyangensis* and *Redlichia chinesis* upward, which are respectively correlated into Qiongzhusi Stage, early Canglangpu Stage, late Canglangpu Stage and Longwangmiao Stage. The paleogeographic framework is of higher altitude in the northwestern and lower altitude in the southeastern of the North China Platform in early Cambrian. The transgression sediments successively overlapped central ward and north ward, and it covered the most areas of the North China in late stage of early Cambrian. The lower Cambrian sedimentary sequences and fossil communities in Jilin and Liaoning Provinces of the northeastern North China Platform are similar to those in Jiangsu, Anhui, Henan and Shandong Provinces of the southeastern North China Platform. Therefore, Jilin and Liaoning Provinces probably located in the southern of North China in early Cambrian, and left laterally displaced north ward in late Triassic and early Cretaceous by the Tangcheng—Lujiang Fault Zone.

Keywords: [Lower Cambrian](#) [Stratigraphical Division and Correlation](#) [Sedimentary Evolution](#) [North China Platform](#)

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