

本期目录 | 下期目录 | 过刊浏览 | 高级检索
页] [关闭]

[打印本

论文

东北地区早白垩世含煤岩系层序地层研究

邵凯, 邵龙义, 曲延林, 张强, 王举, 高迪, 王东东, 李柱

- 1.中国矿业大学(北京) 地球科学与测绘工程学院, 北京 100083;
- 2.中国矿业大学(北京) 煤炭资源与安全开采国家重点实验室, 北京 100083

摘要:

利用煤田钻孔资料, 对东北地区早白垩世主要盆地群的含煤岩系层序地层格架及聚煤规律进行研究。根据区域不整合面、下切谷砂砾岩体底面以及沉积相转换面等4类型层序界面, 在研究区识别出6个层序界面, 将区内含煤岩系划分为5个三级层序。层序 I 属于盆地的初始断陷阶段, 层序 II、层序 III 是盆地持续沉降阶段, 层序 IV、层序 V 时期是湖泊缓慢回升, 萎缩的过程。聚煤作用从层序 I 到层序 V 的趋势依次为: 弱, 强, 弱, 强, 弱。层序 II 处于盆地的缓慢裂陷期, 层序 IV 处于盆地缓慢回升期, 这两个时期都有适度的湖平面上升速率, 能保证可容空间增加速率与泥炭堆积速率之间的相对平衡关系, 从而形成了区域性的厚煤层, 这两个层序分别对应形成了区域上的下含煤段和上含煤段。

关键词: 早白垩世; 东北地区; 含煤盆地; 层序地层; 聚煤规律

Study of sequence stratigraphy of the Early Cretaceous coal measures in Northeastern China

Abstract:

Sequence stratigraphy and coal accumulation of the Early Cretaceous coal measures in the northeastern China have been studied using outcrop and borehole data in this paper. Based on the regional unconformity surface, the erosional base of incise valley fill sandstone/conglomerates, the vertical facies reversal surface and paleontological evidence, a total of six sequence boundaries have been identified, which subdivide the Early Cretaceous coal measures into five third-order sequences. Sequence I was developed at the initial subsiding stage. Sequence II and Sequence III were developed during the further subsiding stage. While Sequence IV and Sequence V were developed during the basin Shrinkage Stage. Sequence II represented the early period of the basin subsiding stage and Sequence IV represented the beginning period of the basin shrinkage stage. Strength of coal accumulation tendency from Sequence I to Sequence V was: weak, strong, weak, strong and weak. During these periods the relative balance between the increase rate of accommodation space and the peat accumulating rate favored the accumulation of the regional thick coal seams. These two sequences correspond to the lower coal seams and the upper coal seams.

Keywords: Early Cretaceous; Northeastern China; coal basin; sequence stratigraphy; coal accumulatio

收稿日期 2013-02-25 修回日期 2013-05-17 网络版发布日期 2013-09-17

DOI:

基金项目:

国家科技重大专项资助项目(2011ZX05033-002); 国土资源大调查资助项目(1212010633901)

通讯作者: 邵凯

扩展功能

本文信息

- Supporting info
- PDF(4674KB)
- [HTML全文]
- 参考文献PDF
- 参考文献

服务与反馈

- 把本文推荐给朋友
- 加入我的书架
- 加入引用管理器
- 引用本文
- Email Alert
- 文章反馈
- 浏览反馈信息

本文关键词相关文章

- 早白垩世; 东北地区; 含煤盆地; 层序地层; 聚煤规律

本文作者相关文章

- 邵凯
- 邵龙义
- 曲延林
- 张强
- 王举
- 高迪
- 王东东
- 李柱

PubMed

- Article by Shao,k
- Article by Shao,L.X
- Article by Qu,Y.L
- Article by Zhang,j
- Article by Yu,j
- Article by Gao,d
- Article by Yu,D.D
- Article by Li,z