

王训练. 从综合地层学观点论华南浅海相泥盆系—石炭系的分界[J]. 地质论评, 1997, 43(4): 394-402

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[王训练](#)

中国地质大学 北京

基金项目:

DOI:

摘要:

生物地层学、事件地层学和层地层学综合研究表明, 华南浅海相区与 *Siphonodella praesulcata* 带和 *S. sulcata* 带之间的界线相当的泥盆系—石炭系的界线不仅高于 *Cystophrentis* 带楔界, 而且还应高于引起 *Cystophrentis* 绝灭的海退事件层的顶界。

关键词: [泥盆系](#) [石炭系](#) [综合地层学](#) [地层学](#) [生物地层学](#)

ON THE DEVONIAN-CARBONIFEROUS BOUNDARY OF NERITIC FACIES AREAS IN SOUTH CHINA FROM A SYNTHETIC STRATIGRAPHICAL VIEWPOINT [Download Fulltext](#)

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Abstract:

In the present paper an attempt is made to discuss the Devonian-Carboniferous Boundary (DCB) of neritic areas in South China based on a combined study of biostratigraphy, event stratigraphy and sequence stratigraphy. Biostratigraphical data indicate that in the neritic facies areas of South China, the DCB marked by the first appearance of *Siphonodella sulcata* in the evolutionary series of the conodont *Siphonodella praesulcata*-Zone should be drawn between the rugose coral *Cystophrentis* Zone and *Pseudouralina* Assemblage Zone, i. e. the *Cystophrentis*-*Pseudouralina* Interval-Zone. The top of the regressive event bed near the DCB is lower than the present boundary between the 5. *praesulcata* and 5. *sulcata*, but higher than the top of the regressive event bed causing mass extinction of *Cystophrentis*. Sequence stratigraphical study shows that the regressive event bed near the DCB constitutes the shelf margin systems tract (SMST) of a depositional sequence (SQ1) in both neritic and pelagic areas. The top of the SMST of SQ1 is slightly lower than the base of the *sulcata* Zone in pelagic areas. In neritic areas of South China, therefore, the Devonian - Carboniferous boundary is marked by the most distinct transgressive surface within the *Cystophrentis*-*Pseudouralina* Interval Zone, i. e. the base of the TST of SQ1. This boundary coincides with the top of the regressive event bed and approximately corresponds to the base of the *Pseudouralina* Assemblage Zone.

Keywords: [boundary](#) [Devonian and Carboniferous](#) [synthetic study](#) [event stratigraphy](#) [sequence stratigraphy](#) [biostratigraphy](#) [China](#)

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