石炭纪维宪阶全球界线层型剖面和点位补遗

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中文摘要:经国际地质科学联合会批准,我国广西柳州北岸乡碰冲剖面为石炭纪维宪阶全球界线层型剖面和点位.层型剖面位于柳州市东北15 km之碰冲村南小溪(24° 26'N,109° 27'E).层型点位在剖面83层之底,与底栖有孔虫"E.ovalis种群"至Eoparastaffella simplex谱系中Eoparastaffella simplex的首次出现吻合.辅助标志是点位之上近5m处,牙形石Gnathodus homopunctatus首现,其下约30 m为Scaliognathus anchoralis europensis的最高出现.本文补充介绍了层型点位的岩石特征和区域上的对比.

中文关键词:石炭纪 维宪阶 界线层型剖面和点位 广西柳州 Eoparastaffella simplex

Supplementary Notes on the Global Stratotype Section and Point for the Base of the Visean Stage, Carboniferous

Abstract:The International Union of Geological Sciences(IUGS) has recently ratified the Global Stratotype Section and Point(GSSP) for the base of the Visean Stage of the Carboniferous System proposed by a Sino-Belgian cooperative team leading by Luc Hance and Hongfei Hou.This GSSP is defined at the base of bed 83 in the Pengchong Member of Luzhai Formation in the section along the bed of a small stream south of the village of Pengchong(24° 26′ N,109° 27′ E),15 km N-NE of the city of Liuzhou and about 130 km SW of Guilin in the Guangxi Zhuang Autonomous Region,South China.This point coincides with the first appearance of the benthic foraminifer Eoparastaffella simplex,in the lineage of "E.ovalis group" to E.simplex.Secondary markers are the lowest occurrence of the conodont Gnathodus homopunctatus,at less than 5 m above,and the highest occurrence of the conodont Scaliognathus anchoralis europensis,at about 30 m below the GSSP level.This is the first stage rank GSSP within Carboniferous System and the first GSSP using benthic fossil as definition.Also,it is the ninth "Golden Spike" established in China.The proposal had been voted by the Carboniferous Subcommission with 100% "yes"((21 voting),then transmitted to International Commission on Stratigraphy(ICS) for final voting during February 2008.The votes received from the ICS Full Commission were 16 "Yes"(88%),and 2 Abstain(12%).The "abstain" votes by ICS members were favorable toward this GSSP choice,but requested that the final document more explicitly explain why the Belgium "type area" was unsuitable.There was a recommendation expressed by two other voting members that the sediments may have a small degree of reworking,and this aspect of the facies should be addressed.The revised final paper will be published recently.As a supplement,the present paper is mainly dealing with the petrology of the Stratotype Point,the bed No.83 and the regional correlation of Tournaision-Visean boundary beds in the classic sections of platform facies,southern China.

keywords:Carboniferous Visean Stage Global Stratotype Section and Point Liuzhou of Guangxi Eoparastaffella simplex