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Geochronological definition on Shipu biohermal limestone and its regional stratigraphic attribution in Xiangshan, eastern Zhejiang Province

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Abstract: There is a set of volcanic-sedimentary rock series in Shipu area, Xiangshan County, eastern Zhejiang Province, which was previously named as Shipu Formation, including upper and lower members. The lower member is interbedded with mudstone, sandstone and stromatolite-wormtube biohermal limestone, while the upper member is characterized by bimodal volcanic rock. For a long time, there have been disputes about the stratification attribution of Shipu Formation and the age of the bioreef limestone. LA-ICP-MS zircon U-Pb ages of the basaltic interlayers newly discovered in rhyolite and sedimentary rocks of the Shipu Formation are obtained, which are (117.8 ± 2.2) Ma and (116.1 ± 1.0) Ma respectively, showing that Shipu Formation formed in late early Cretaceous. According to the regional stratigraphic correlation study, the stratigraphy of Shipu Formation and Guantou Formation is similar, both belongs to the contemporaneous heterogeneous sequence strata.

Key words: LA-ICP-MS zircon U-Pb dating; biohermal limestone; Shipu area, Xiangshan County; eastern Zhejiang Province

• 成果快讯 •

自然资源部流域生态地质过程重点实验室获批

自然资源部公布了建部以来首次新建重点实验室建设名单,中国地质调查局主管的“自然资源部流域生态地质过程重点实验室”获批准,实验室建设填补了在流域生态地质领域重点实验室的空白。

实验室依托中国地质调查局南京地质调查中心,与江西省师范大学联合共建,旨在聚焦流域生态地质过程与资源环境重大问题,研究流域从源到汇的物理(水、沙、气候等)、化学(碳、氮等)通量传输与循环机理及其有关的流域生态环境退化规律,攻关监测、风险评估与修复等关键技术,编制相关标准规范,打造一流国际学术交流平台,更好地支撑服务自然资源部“两统一”职责。

(中国地质调查局南京地质调查中心 周权平 供稿)