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再论山脊壶穴的冰川融水成因——兼与施雅风院士商榷 [点此下载全文](#)

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摘要:

针对施雅风院士新提出的壶穴之“负球状风化”说,笔者特撰文与施老商榷。笔者认为:壶穴的形成并不与风化作用无关,不能用“负球状风化”来解释。壶穴是高速旋转水流侵蚀的结果,在中国东部花岗岩山脊上发现的壶穴标志。近年来观察到的格陵兰冰上湖泊的突然排泄为壶穴的冰川融水成因说提供了重要的证据。壶穴成因争论的本质是第四纪冰川,建议第四纪学界关注中国东部第四纪冰川的其他地貌标志。韩同林研究员的“冰臼论”促进了中国东部应当给予积极评价。

关键词: [壶穴](#) [负球状风化](#) [冰川融水](#) [中国东部](#) [第四纪冰川](#)

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Abstract:

After reading the newly published article, entitled Comments on the Moulin Argument provided Misunderstanding of Granite Negative Spheroidal Weathering (by Academician SHI Yafeng), the author collected a lot of materials and references to discuss the origin of potholes with Academician SHI Yafeng. The Academician SHI Yafeng on the origin of potholes. Potholes are formed without being controlled by weathering, and thus, can not be interpreted with the so called "negative weathering". Potholes can only be formed under the erosion of fast whirling water, and so the ones on ridges in the east of China can be treated as the meltwater erosion indicators of Quaternary glaciation. The abrupt draining of meltwater from the supraglacial lakes in Greenland provides important evidence of potholes. The arguments on the origin of potholes in China reveal the discordance of researchers' views on Quaternary glaciation in the east of China. Apart from potholes, the Chinese researchers should pay attention to landform records related to Quaternary glaciation in the east of China. The so called "Moulin Argument" proposed by Professor HAN Tonglin, has improved the research on the landforms of Quaternary glaciation in the east of China.

Keywords: [pothole](#) [negative spheroidal weathering](#) [meltwater](#) [east of China](#) [Quaternary glaciation](#)

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