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The variation in oxygen stable isotope for 12,500 years of an ice core drilled from Grigoriev ice cap in Kyrgyz Tianshan

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In 2007, ice cores were successfully drilled on Grigoriev Ice Cap located in the Tien Shan Mountains, Kyrgyzstan. The elevation of the drilling site was 4600 m a.s.l. and entire core length was 87 m. Radiocarbon dating revealed that the soil corrected from the bottom of the ice core was 12,500 cal year bp. Oxygen stable isotope of the ice core showed that recent increasing trend and significant negative value before 6,000 cal year bp.

Keywords: glacier, ice core, Holocene, stable isotope, climate change, central asia