Publications of the Institute of Geophysics, Polish Academy of Sciences

Geophysical Data Bases, Processing and Instrumentation vol. 443 (E-13), 2022, pp. 7–7 DOI: 10.25171/InstGeoph_PAS_Publs-2022-031 International Symposium on Drought and Climate Change, 24–25 November 2022

Flash Drought Propagation in the Yangtze River Basin under Climate Change

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Abstract

Flash drought is a space-time phenomenon with rapid intensification which poses serious threats to terrestrial ecosystems. However, the understand of flash drought propagation under climate change and regional human activities is still insufficient, and its potential causes remain unresolved. To explore this key issue, an integrated framework is proposed to describe the drought propagation process in the Yangtze River Basin, and trend and attribution analyses are utilized to explore potential influence factors. The framework is conducive to better understanding of flash drought processes and provides scientific guidance for flash drought early warning, prevention and mitigation.

Keywords: flash drought, drought propagation, Yangtze River Basin, climate change.

Received 17 November 2022 Accepted 20 December 2022