

中国科学院地理科学与资源研究所

Institute of Geographic Sciences and Natural Resources Research, CAS

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首 页 | 研究所介绍 | 机构设置 | 科研队伍 | 科学研究 | 合作交流 | 研究生教育 | 创新文化 | 所图书馆

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今天是: 2008年4月1日 星期二

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站内搜索 ...

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Dynamical variations in groundwater chemistry influenced by intermittent water delivery at the lower reaches of the Tarim River

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The water of Bosten Lake was released to lower reaches of the Tarim River for 5 times from 2000 to 2002. The changes of total dissolved solid (TDS) and the major ions (SO , Cl, Na, Ca, Mg, Mg, and HCO) were analyzed during this period. It was found out that TDS and the concentrations of the major ions initially and quickly increased and then decreased, but finally increased again. These changes were different at different distances from the river, which indicated that the groundwater changes relied on the distance from the river. In addition, the salt in groundwater was only diluted but not removed by the water. It was suggested that ecological measures should be sought to really promote the quality of the groundwater at the lower reaches of the Tarim River.

Paper (PDF)

关键词: water delivery; groundwater chemistry; hydro-salinity movement; the Tarim River