

## **Influence of topographic and climatic perturbations on groundwater flow conditions**

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In the study, groundwater flow modeling has been performed in order to evaluate influence of topographic and climatic perturbations on groundwater flow conditions in the Tono area, Gifu, Japan. It was shown from the results of this study that the topographic and climatic perturbations influence hydraulic gradient, and groundwater flow path, path length and travel time. It is also found that these influences have spatial difference due to hydrogeological heterogeneity caused by faults with hydraulic contrast.