

## Regional groundwater flow system study of the volcanic bedrock basin

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Quaternary pyroclastic flow deposits are widely distributed in Japan, but their groundwater flow system has not been much studied. Relatively steep morphologic surface with humid temperate hydrological condition of our country should create active groundwater flow including coastal groundwater seepage-out. A 4.5 km<sup>2</sup> mountainous pyroclastic catchment has been selected in Uto peninsula, Kumamoto, Japan for this purpose and the regional groundwater flow system has been studied.