

Water quality and change in the alluvial fan of Ado River.

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The study area is artesian zone in the northern fan of the Ado river, in western Shiga Prefecture. In the western part of the alluvial fan, there is active fault in the Biwako Seigan Active Fault System. The Ado River separates the Biwako Seigan Active Fault System. The Ado River flows from northeastern Kyoto to Lake Biwa. The basin area is about 300 km² and the length of the channel is about 60 km.

The objective of this study is to investigate the relationship between groundwater and river water. This study collected groundwater, river water, and lake water in April, November, 2018, and April, November, 2019. The results show that river water and lake water are Ca-HCO₃ type, and groundwater is Ca-HCO₃ type, and Na-HCO₃ type. Dissolved components of Ado River water quality tended to increase from upstream to downstream, and further to lake water. This presentation will focus on the changes in water quality from 2010 to 2019 for about 10 years.

Keywords: Ado river, Alluvial fan, Artesian well, Water quality, Lake Biwa, Active fault