

The geochemical and stable isotope characteristics of the Chikusa River in Hyogo Prefecture

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The simultaneous survey of water temperature in the Chikusa River was performed by Chikusa River Conservation Committee on August 9, 2015. The activity of the simultaneous survey has been putting it into effect by cooperation with a hundred of areal residents on Sunday of the beginning of August every year since 2002. In the survey, water samples were collected at 74 sites in total from Chikusa-cho Mimuro in the upstream and Amako seller to the Ako City coastal part in downstream. The cooperative geochemical study for the Chikusa River between the Chikusa River Conservation Committee and Research Institute for Humanity and Nature with Kobe University and Museum of Nature and Human Activities, Hyogo has started from the 2015's survey. In this study, we analyzed the water samples collected in 2015 by the Chikusa River Conservation Committee and areal residents in order to construct an environmental map for conservation in the Chikusa River area. The hydrogen and oxygen isotope composition and an ion chromatography analysis were performed about the water samples.