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AHW24-P03

会場:コンベンションホール

時間:5月25日18:15-19:30

扇状地地下水の水質形成における山地水資源の影響 Effects of mountainous water recharge to groundwater quality of alluvial fan

中村 高志 1*; 西田 継 1; 風間 ふたば 1

NAKAMURA, Takashi^{1*}; NISHIDA, Kei¹; KAZAMA, Futaba¹

1山梨大学・国際流域環境研究センター

In this study, the hydrogen and oxygen stable isotopes (δ D and δ 18O) and chemical compositions of environmental water were employed to identify the effects of mountainous water recharge for groundwater quality on alluvial fan.

The study area is Midaigawa alluvial fan, located in western Kofu basin on central Japan, which is formed by Raised-bed River discharged from the mountain watershed.

The groundwater samples were collected from 25 deep wells (100~300m) in June-2010, Novenber-2011 and Novenber-2012. Those wells were located on Midaigawa alluvial fan and adjacent mountain. Four End-member mixing analysis using isotope value and chemical compositions revealed spatial variation in the contribution ratios for various groundwater sources. This presentation focused on groundwater recharge from mountain area to alluvial fan. It also found the relationship between contributions of mountainous water on groundwater and chemical composition.

Acknowledgment

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キーワード: 地下水涵養, 扇状地, 安定同位体比, 混合比解析, 山地水資源

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¹ICRE, University of Yamanashi