[JJ] Evening Poster | A (Atmospheric and Hydrospheric Sciences) | A-HW Hydrology & Water Environment

[A-HW25]Isotope Hydrology 2018

convener: Masaya Yasuhara (Rissho Univ.)

Wed. May 23, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe) The purpose of the session is to review the present state of knowledge of isotope hydrology, by bringing together hydrologists, geologists, volcanologists, geochemists, agronomists, ecologists, engineers and so on.

[AHW25-P04]Study of volatile flux from magma of Aso volcano through shallow groundwater layer

*Masaaki Takahashi¹, Kohei Kazahaya¹, Tsutomu Sato¹, Hiroshi A Takahashi¹, Yuki Tosaki¹, Yasuo Tomishima¹, Noritoshi Morikawa¹, Akinobu Miyakoshi¹, Akihiko Inamura¹, Jun Daimaru¹, Hinako Shimizu¹, Hiroko Handa¹, Atsuko Nakama¹ (1.The National Institute of Advanced Industrial Science and Technology) Keywords:Aso, volatile flux from magma, river survey

In order to investigate the volatile flux from magma of Aso Volcano through shallow groundwater system, we are conducting river surveys in and around the Aso caldera area. According to the last year's survey, it was deduced that fluxes of S and CI from magma of Aso Volcano through shallow groundwater system are 66 ton S/day (160kg/day/km²) and 30 ton CI/day (70kg/day/km²). Calculated S and CI fluxes are similar scale with those released by volcanic gases from the Aso volcano, 215 ton S/day and 16 ton CI/day.

In this year, a river survey was conducted around the Aso caldera area (Midori, Kikuchi, Chikugo, Ono and Gokase Rivers). It is resulted that flow rate of S and CI of those rivers are 3-11kg/day/km² and 4-40kg/day/km².

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