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[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.

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## [AHW25-P03]Residence time of submarine springs in volcanic island

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Keywords:submarine spring, residence time, age dating tracer, Rishiri island, Hichijo island

Submarine spring is an important part of the hydrological cycle, and of coastal chemical budgets. Residence time of submarine spring provides valuable information about the sources and flow paths of submarine springs. In this study, residence time of submarine springs located on Rishiri island and Hachijo island were determined using transient tracers (<sup>3</sup>H, CFCs, SF<sub>6</sub>). Based on the results, we discuss the factor that is controlling age of submarine spring in volcanic island.