

日本全国における降水安定同位体の2013年集中観測 Intensive Observation of Stable Isotopes in Precipitation over Japan in 2013

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Stable isotopes in precipitation (Oxygen-18, Deuterium) are useful for a tracer of hydrological cycle, a proxy of peleo-climate, and a certificate of food origins. There are a lot of precious studies which observed stable isotopes in precipitation over Japan, however, most of them were observed only one or a few stations and observation periods were limited.

The observation network of stable isotopes in precipitation over Japan was set up by the Isotope Mapping Working Group in the Japanese Association of Hydrological Sciences (IMWG-JAHS). The objectives of IMWG-JAHS is to observe the spatial distribution and seasonal variability of stable isotopes in precipitation over Japan and to make an empirical formula of stable isotopes in precipitation over Japan from the geographical information, meteorological parameters, and observed isotope data in all sites. In order to archive these objectives, monthly precipitation are sampling at about 100 stations over Japan during 2013 (IOP2013). In addition to IOP2013, the data of stable isotopes in precipitation are collecting from published articles and reports, and also unpublished observational data (data rescue). The website of these database will be opening soon.

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