

Kyoto University

# Research Activities

Vol. 5 No. 1 June 2015

*Special Feature*

Kyoto University Facilities throughout Japan



京都大学

# Research Activities

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Ashiu Forest Research Station's Office

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# Does Water Come from the Deep Earth?

*Geochemical investigation of hot-springs originating from deep fluid.*



The existence of hot-spring waters of high salinity was well known in non-volcanic regions, but their origin has been unknown for a long time. We began our geochemical investigation of hot-spring waters discharged in the non-volcanic regions of the southwestern part of Japan in 2003. Through our studies we expect to find hot-spring waters derived from deep fluid characterized by CO<sub>2</sub>-bearing saltwater, such as Arima-type thermal water, which originates from dehydrated metamorphic fluid released from the Philippine-Sea plate subducting into the interior of the earth.

◀ Density measurements for saline hot-spring water sampled from Arima, seawater, and tap water using a float type densimeter

**From the Editor** An oral presentation on this research was chosen as a highlight paper of the Japan Geoscience Union Meeting in 2014 (SIT40-13).

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[www.vgs.kyoto-u.ac.jp/japanese/personal%20page/j-ohsawa.html](http://www.vgs.kyoto-u.ac.jp/japanese/personal%20page/j-ohsawa.html)

