

## Regional Airborne Survey for the Evaluation of Geothermal Potential in Japan

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Japan Oil, Gas and Metals National Corporation (JOGMEC) supports smooth development of geothermal resources in Japan by providing assistance to geological, geophysical, and well-drilling surveys, equity capital or liability guarantees, and information and data on geothermal resources.

As part of them, we planned to conduct evaluation of geothermal potential with airborne technique of gravity gradiometer method and time-domain electromagnetic method.

The gravity gradiometer method measures the differential of gravity, and provides information of much detailed geological structures. The time-domain EM method provides deeper penetration data than the frequency-domain EM method.

Since these methods are state-of-the-art techniques, we demonstrated them first in a couple of area with relatively high geothermal potentials and a lot of surveys conducted.

We carried out airborne survey with the technique of the gravity gradiometer method in the Kuju and the Kirishima areas in 2013. We would like to introduce the result of the airborne survey.

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