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Geothermal activity around Owakudani at Hakone volcano: Recent growth and migrations of new vigorous steaming grounds

Masatake Harada^{1*}, Akihiko Terada², Kei Odawara¹, Yasushi Daita¹, Kazuhiro Itadera¹, Yohei Yukutake¹, Shingo Matsuzawa¹

¹Hot Springs Research Institute of Kanagawa Prefecture, ²Volcanic Fluid Research Center, Tokyo Institute of Technology

Owakudani is located in the north side of the central cone at Hakone volcano, and its fumarolic activity is active. In this area, a fumarolic activity is active and the steam is rising from surface. The great earthquake swarm activity at Hakone volcano has been occurred from June, 2001. After this event, a fumarolic area crosses the ridge of Owakudani and the steam is found also along the northern side of Owakudani.

In some places, the tree has withered and broken down at the newly generated fumarolic area. Although the new fumarolic area was spread from Owakudani to Kamiyuba until 2010, it activated after 2011 on the western side. Even now, it is growth or migrations in the new fumarolic region.

We observed ground surface temperature using infrared thermal camera. We discuss about the relationship between the change of surface condition and geothermal field, and the earthquake swarm activities in Hakone volcano.

Keywords: Hakone volcano, streaming ground, infrared thermal camera observation, ground surface temperature, geothermal field, surface condition