

## Volcanic clouds and fumarolic activities records of Tokara Islands, based on Kuniezu in Edo Period.

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The *Kuniezu* (country map of Edo Period) gives useful information to build records of fumarolic and volcanic clouds activities. The Tokugawa Shogunate (Edo Period) ordered four times in years of Keicho, Shoho, Genroku and Tempo to prepare maps of every *kuni* (country) all over Japan. Volcanic clouds were drawn in many volcanoes in the *Kuniezu* (Oikawa, 2008: this session). We clear the records of the volcanic clouds activities in Tokara Islands, based on Genroku *Kuniezu* (AD1702) and Tempo *Kuniezu* (AD1838) drawn at each country of *Satsuma* and *Ooshumi*. In Genroku and Tempo *Kuniezu*, volcanic clouds are drawn at each volcano of Yokoatejima, Suwanoshejima, Nakanoshima, Kuchinoshima, Kogajyajima, and Satsuma-Ioujima. At Kuchierabujima Volcano, volcanic clouds were drawn only in Genroku *Kuniezu*. Yokoatejima and Kogajyajima are not recognized as the active volcano of Japan Meteorology Agency. In 18<sup>th</sup> and 19<sup>th</sup> Century, the volcanic clouds activities of Tokara Islands volcanoes are more active than the presence.