

## Information of volcanic activities with scientific uncertainty in a view of science communication

\*Miwa Kuri<sup>1</sup>, Anawat Suppasri<sup>1</sup>, Tetsuya Torayashiki<sup>1</sup>

1. International Research Institute of Disaster Science, Tohoku University

Japan Meteorological Agency (JMA) introduced a "special alert" on August 30, 2014. Ministry of Land, Infrastructure and Transport (MLIT) has published "a way of disaster prevention and mitigation that corresponds to a new stage," on January 20, 2015. The style of Disaster information is developing. In this report, Information of volcanic activities with scientific uncertainty and the wide range of time and space was focused in a view of science communication. In particular, after the Great East Japan Earthquake, the concept of "uncertainty of science" and "science in action (developing)," became an issue to examine the calling and the receiving side of the case in Japan. The case of the crater peripheral danger alarm of Mt. Zao April 2015 as the example of low frequency volcanic activity and the rapid evacuation in the eruption of Mt. Kuchinoerabu in August 2014 and May 2015, as the example of high frequency volcanic activity were selected.

On May 29, 2015 volcano eruption occurs in Shindake crater of Mt. Kuchinoerabu, for the first time of the special alarm (eruption alert level 5) was announced in Japan's volcano, evacuation of the island outside has done. Interviews were conducted in July and October 2015. The main target of hearing investigation are staffes of Yakushima Town Hall (Miyanoura branch, Kuchinoerabu Branch), staffs of fire brigade, heads of wards in Kuchinoerabujima. Topics of hearing are "the volcano disaster prevention awareness before August 2014," the volcano disaster prevention awareness after August 2014," "judgment and situation of evacuation in May 2015" and "opinions towards the back home". As results it is important to transport between citizen not but governors with specialist. After April 7 in 2015, the volcanic seismicity near the volcano Zao Okama increased, and the alert (around the crater danger) was announced on the 13th. At the end of the volcanic tremor on May 17th, passed in a small state of the earthquake, it has been released on June 16. It was the first of the volcano, which was activated after a disaster at the Utaki. Through the news April 14, a tourist government officials commented "a projecting part of spring tour was foiled," "We did not have recognitions of active volcano for Mt. Zao". After the release of alert, many supoting projects have been carried out with a focus on tourist assistance from prefectures Miyagi and Yamagata. The effect of these project was interviewed from tourism-related business owners in both Prefecture Yamagata Miyagi. As results no recognitions of active volcano for Mt. Zao is in the majority, the gap of the time scale of life and geological phenomenon, present situation that is preventing the understanding of the measures have been suggested.

Keywords: Science communication, Information of Volcanic Activities, scientific uncertainty