

Sharing volcano experiments conducting at some UGGp in Japan

*Hikaru Yokoyama^{1,2}, Taku Morimoto³, Kenji Kato⁴, Dong-Won Choi⁵, Naoko Imabeppu⁵

1. Hokusho University, 2. Toya-Utsu Unesco Global Geopark, 3. Unzen Volcanic Area Unesco Global Geopark, 4. Izu Peninsula Geo Guide Association, 5. Hantangang River Geopark

There are several geoparks in Japan that have active volcanoes as geosites. Each geopark have conducted volcanic experiments to spread volcanic phenomena and disasters to children and citizens. Each volcanoes in Japan have various characteristics, so various experiments have been developed and practiced.

On the other hand, there are many geosites due to volcano in areas without active volcanoes. However, in these areas, people are less interested in volcanoes and have less understanding about volcanoes.

As in Japan, Hantangang River Geopark in the northern part of Korea has many geosites composed of lava between 130 Ka and 500 Ka. However, people of the area do not understand much about volcanic eruptions, because this area don't have active volcanoes. Although many of the main geosites were provided by volcanoes, guide groups have not understood much about volcanoes. So the guide groups wanted to increase the content of the volcano experiment to inflate the image of the volcanic phenomena that had not seen.

We Toya-Utsu UGGp, Unzen Volcanic Area UGGp, and Izu Peninsula UGGp have active volcanoes. And we have conducted volcano experiments many times. So we carried out the volcano experiments lesson for the guide group in Hantangang River Geopark, and wanted to share our contents of volcano experiments. The volcano experiment lesson was held on December 14, 2019 at Hantangang River Geopark Center in Pocheon City. Under the theme of volcanic activity learned through volcanic experiments, we conducted experiments on the mechanism of volcanic eruptions, the formation of volcanic plumes and pyroclastic flows, the collapse of mountains, and the experiments on lava flows.

We hope to promote activities to deepen the understanding of many citizens on the diversity of various geological phenomena including volcanoes by sharing contents of experiments among some geoparks. Part of this work was supported by JSPS KAKENHI Grant Number JP17K01041.

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