

## 小学校におけるジオパーク火山教室：流れる溶岩の観察 Volcanology class in Dinosaur Valley Fukui Katsuyama Geopark: Molten lava flow experiments in elementary schools

三好 雅也<sup>1\*</sup>; 畑中 健徳<sup>2</sup>; 吉川 博輔<sup>2</sup>; 小林 暉<sup>1</sup>; 藤井 純子<sup>1</sup>

MIYOSHI, Masaya<sup>1\*</sup>; HATANAKA, Takenori<sup>2</sup>; YOSHIKAWA, Hirotsuke<sup>2</sup>; KOBAYASHI, Hikari<sup>1</sup>; FUJII, Junko<sup>1</sup>

<sup>1</sup> 福井大学教育地域科学部, <sup>2</sup> 恐竜渓谷ふくい勝山ジオパーク

<sup>1</sup>Faculty of Education and Regional Studies, University of Fukui, <sup>2</sup>Dinosaur Valley Fukui Katsuyama Geopark

We report the results and educational effectiveness of our volcanology classes in the elemental schools in Katsuyama, Fukui. The volcanology class is a part of the outreach activity in Dinosaur Valley Fukui Katsuyama Geopark, and is designed for the purpose of disseminating knowledge of volcanoes and volcanic products in Katsuyama region. Although there is no active volcano in Fukui prefecture, several Quaternary volcanoes (1 to 0.7 Ma) are existed in Katsuyama region. These volcanic products formed a large part of the basement in this region. The largest ski site in Fukui (SKIJAM Katsuyama) harnesses the slope of lava flow morphology of the youngest volcano (Hoonjisan) in this region. These facts indicate that people in Katsuyama region lives on the benefits of volcanoes, however, the relationship between volcanoes and the land formation in Katsuyama region is not well understood by local residents. Thus we aim to give elementary school students a deeper understanding of volcano and the land formation in Katsuyama region through our volcanology class. In the class, we demonstrated an experiment of lava formation by using portable clay cooking stove (Shitaoka et al., 2011). The students observed lava forming process, and measured the temperature of the produced fluid lava by using an infrared radiation thermometer during the experiment. In addition, the students observed flowing lava on the slope of sandpile, and studied the formation of lava flow morphology. The results of questionnaires after the volcanology class indicate that the students understood the formation of lava flow morphology and the basement volcanic products of SKIJAM Katsuyama, and also show the improvement of their interest to the relationship between volcanoes and the land formation in Katsuyama region.

キーワード: 火山教室, 溶岩流, 小学校, ジオパーク, 福井県勝山市

Keywords: volcanology class, molten lava flow, elementary school, geopark, Katsuyama, Fukui, Japan