

Volcanism in the Marius Hills region and Uzume Project

*Tomokatsu Morota¹, Junichi Haruyama²

1. Graduate School of Environmental Studies, Nagoya University, 2. Japan Aerospace Exploration Agency

Lunar mare basalts provide us with key information on the thermal evolution for a small terrestrial planet and the composition of the lunar mantle. Understanding the composition, volume, and eruption age of mare basalts is fundamental to reveal volcanic history of the Moon. We have investigated the eruption ages and compositions of mare basalts by employing Kaguya LISM data (Figure). Here we review our findings and scientific significance of the Marius Hills region as a target in the future mission.

Keywords: Moon, Mare volcanism, Marius Hills, Uzume project

