

Mare Imbrium 周辺の地殻物質 Crustal materials around Mare Imbrium: result of Kaguya data integration science

杉原 孝充^{1*}, 大竹真紀子², 春山純一², 松永恒雄³
Takamitsu Sugihara^{1*}, Makiko Ohtake², Junichi Haruyama², Tsuneo Matsunaga³

¹ 海洋研究開発機構 地球深部探査センター, ² 宇宙航空研究開発機構, ³ 国立環境研究所
¹CDEX/JAMSTEC, ²JAXA, ³NIES

In order to understand lithological distribution and geological structure of the lunar crust, it is important to conduct analysis of spectral images with high spatial resolution considering 3D geological structure by using high-spatial resolution topographic map. In this presentation, lithological distribution and its relationship with geological structure around Mare Imbrium will be discussed by using the Kaguya data acquired by MI, TC, KGRS and LALT. As well known, Imbrium basin is situated in Procellarum KREEP Terrane (PKT). Therefore this investigation would contribute to understand lithological structure of the PKT and influence of Imbrium basin formation on the PKT evolution. In addition to discussion on crustal materials around the PKT, implication for origin of high-Th (i.e. KREEPy) crustal materials will be discussed.

キーワード: 月, 地殻, かぐや, Procellarum KREEP Terrane, マグマオーシャン, 初期進化
Keywords: The Moon, Lunar crust, Kaguya/SELENE, Procellarum KREEP Terrane, Magma ocean, Early evolution