

Lithologic mapping of the lunar surface by using Clementine UVVIS data

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For the purpose to analyze Selene multispectral image data efficiently, methodologies for lithologic mapping of lunar surface were evaluated by using Clementine UVVIS data. Firstly, Fe and Ti contents were estimated from the UVVIS data. False color images generated by these contents and reflectance at 750nm enabled us to discriminate mare basalts including Dark mantle deposits. Relation between eruption sequence and chemical composition of the mare basalts in both near-side and far-side can be discussed by using these images along with high spatial resolution images.