Geological Features Study of the Lunar Surface Using the Lunar Remote Sensing Data

GAN Fu Ping[1], YU Yan Mei[2]

[1]China Aero Geophysical Survey & Remote Sensing Center for Land & Resources, Xueyuan Street, Haidian District, Beijing, 100083, China, fpgan@yahoo.com.cn

[2] China University of Geosciences（Beijing）, Xueyuan Street, Haidian District, Beijing,100083, China, yuyanmei1125@163.com

Introduction：Taking typical craters of lunar surface, such as Aristillus、Humorum, as the test areas, and using the Clementine UVVIS、NIR and lidar data , on the basic of the lithology、mineral recognition and three-dimensional building on the lunar surface, we mainly study the relationship between the geologic features on the lunar surface and the physiognomy of the lunar. We analyze the lunar lithology and the rule of the mineral distribution.

Key words: Telemetering data、Lidar、Mineral mapping 、Lunar surface configuration