LUNAR-A Penetrator Operation System

Masahiko Hayakawa [1], Akio Fujimura [1], Yu-ichi Iijima [1], Satoshi Tanaka [1], Yasuyuki Yamashita [2], Hiroaki Shiraishi [3], Shinsuke Yoshida [1], Hitoshi Mizutani [1], Hayakawa Masahiko LUNAR-A Penetrator Science Team

[1] ISAS, [2] CAST, ISAS, [3] Res. Div. Planetary Sci., ISAS

The data gathered by the scientific instruments will stored in a recorder within the penetrator and then will be transmitted to the earth via the mother spacecraft which will come over each penetrator every about 15 days. The commands from the earth will also be transmitted to penetrators via the mother spacecraft. Owing to a limited capability of data transmission, restricted communication timing between the penetrators and the spacecraft, design of the efficient operation plan and construction of the powerful ground support system are required. The current status of LUNAR-A penetrator operation system is reported.