

LUNAR RESEARCHES: WHETHER THE OPTIMUM IS POSSIBLE?**Tanaka S.** (ISAS, Japan),**Khavroshkin O.B., Tsyplakov V.V.** (IPE RAS)*khavole@mail.ru*; phone: 8 499-252-21-98

Key words: *moon, inside structure, corn, geochemical & mineralogical atlases, astrophysical - cosmogonical mega receiver, dust burst*

The optimum Program of the Moon studying should consist of directions: (1) research of an internal structure and a corn; (2) cosmogonist and astrophysical researches with the Moon using as a mega detector; (3) creation the geologic – geochemical lunar atlas. The optimum Program adapted to performance of all primary goals 1-3 and at cost not exceeding any of scientific directions of +20 %-30 % is offered. The task 1 is worked and experimentally provided. For definition physical borders of a corn we pass to a similar seismic tomography method. With fly to trajectories on a disk of the Moon make start-up of capsules for this purpose with charges explosive matter. The moment of impact (explosion) is marked by a flash; all registered flashes on coordinates adhere to an existing lunar map. There are using the cumulative information: coordinates of seismic sources, the moments of explosions, energy of each of them, seismic records of waves from explosions solve tasks of the lunar an internal structure and borders. This stage simultaneously serves also as the tool of geologic-geochemical research at use of orbital station with the block returned to the Earth. The station grasps field emissions of a dust ground at explosions and then the block delivers it to the Earth.

Electronic Scientific Information Journal "Vestnik Otdelenia nauk o Zemle RAN" № 1(27) 2009

ISSN 1819 – 6586

Informational Bulletin of the Annual Seminar of Experimental Mineralogy, Petrology and Geochemistry – 2009

URL: http://www.scgis.ru/russian/cp1251/h_dgggms/1-2009/informbul-1_2009/planet-26e.pdf

Published on July, 1, 2009

© Vestnik Otdelenia nauk o Zemle RAN, 1997-2009

All rights reserved