

LUNAR SEISMICAL WAVES FIELDS AFTER METEOROID IMPACTS**1972 , MAY 13, JULY 17****Tanaka S. (ISAS, JAPAN), Khavroshkin O.B., Tsyplakov V.V. (IPE RAS)***khavole@mail.ru; phone: 8 499-252-21-98*

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The specified 2 meteoric impacts are unique for a history of tool lunar seismology. Capacity of each of it's ~ 1000 t. TNT, the first falling was on the ~ 150km distance from the nearest seismic station, the second was in besides Moscow crater on the fare side of the Moon. As a result of falling there were appearance powerful seismic wave fields of unusual duration about 4-5 ours (value conditionally enough since depends from sensitivity of seismic instruments). Records of these fields (seismograms) are the unique data information content of which in many respects is determined by the software and a level of physical understanding of seismologists. Originally on the basis of spectral processing records tables from significant ($P > 0.95$) spectral peaks of envelope bending around directly seismic response to falling of meteorites and also it codes peaks in a range from 60 min. up to 30 s. for all three components signals were made. The number of peaks for each of events was distributed on components: 1 event - X - 120; Y - 100; Z - 68; 2 event - X - 82; Y - 73; Z - 74.

As 1st event was not fare waves of superficial type have caused much more periodicity in comparison with P - waves (Z - a component signal); for 2nd event which was almost in an antipode point of fare lunar side superficial waves were showed only as components first time of all spheroid Moon oscillations. Insignificant excess of the peak number on X - a component probably is connected to excitation rotor oscillations. A number and other features are marked.

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