EPSC Abstracts Vol. 10, EPSC2015-886, 2015 European Planetary Science Congress 2015 © Author(s) 2015



The results of the Perseid observations in 2014

A. P. Kartashova, G. T. Bolgova

Institute of Astronomy of the Russian Academy of Sciences (INASAN), Moscow, Russia (akartashova@inasan.ru / Fax: +7-495-9515557)

Abstract

The results of meteor observations in 2014 are presented. For observation in the wide field of view were used television systems (the camera Watec LCL-902HS and the lense Computar 6/0.8) with fields of view of 56°x44° and a limiting magnitude (for stars) +5.5 m. Observations were carried out by a double-station method (the distance between stations is 20 km). For three year of observations in INASAN were detected above 1000 meteors. The basic parameters (radiants, geocentric velocities, heights) were calculated for double-stations meteors. The distribution of the Index Meteor Activity (IMA) of meteors to the Earth in 2014 is given. The maximum activity of the Perseids (with maximum values of IMA) was obtained in 12 August ($\lambda = 140.0^{\circ}$). The distribution of the Perseid radiants was shown. The daily motion Perseid radiant was calculated by our data in 2014. Analysis of the beginning and ending heights of Perseids was presented. The distributions of meteors by absolute magnitude and the number are presented. The trajectories of the meteors and the orbits of the meteoroids were calculated from the double-station observations.

The work was supported by the Program №22 of the Presidium of RAS «Fundamental problems of research and development of Solar system».