

ABSTRACTS

Meteors

0 Meteorstreams in July /p.11./

The visual observers of the Hungarian Meteor and Fireball Observing Network /MMTEH/ worked in July 90.1 hours on 18 nights. During this time we observed nearly 500 meteors and obtained 217 ZHR values. In the article we summarize the results of four streams, the Gamma Draconides, the Omicron Cassiopeides, the Cygnids and Ursa Minorides. For each stream we present the distribution of the observed colour /blue, blueish-white, white, yellowish-white, yellow, orange/ the magnitude and the duration of the meteors. Below the graphs we give the ZHR values, too.

0 Micrometeorites - a summary /p.18./

There were 17017 micrometeorites collected between April 1981 and April 1982 by our observers. We plan a long term elaboration of the observations which have been made since 1980. We examine the MIHR values, the distribution of the shapes, the correlation between the MIHR value and the amount of rain, the changes in MIHR after fireballs or bolids, the ratio of stone/iron micrometeorites, etc.

Variable Stars

0 Nova and supernova discoveries of Hungarian amateur astronomers /p.24./

The author gives a list of novae and supernovae, discovered or observed independently from first discovery by Hungarian amateurs. The SN Cas 1572 was observed by Tycho Brahe on 11th Nov, but Hungarian amateurs noticed it as early as in October. The SN And 1885 was also observed by Hungarian amateurs. Nova Aql 1918 was observed in Hungary one day earlier than the registered discovery.

0 Mira Ceti 1968-1982 /p.28./

Our paper gives the results of Hungarian amateurs on the well observed variable star Mira Ceti. We made 927 estimates on Mira between 1968 and 1982. The table shows the times and the brightnesses of the observed maxima and minima. The average magnitude of a typical maximum was 3.6, and the length of the mean cycle was 334 days, somewhat longer than the long-term mean cycle length.

We used 10-day means on the light curve. The smallest dots mean 1-2 observations, medium ones mean 3-5 observations, large ones represent 6-18 observations. Note the maximum in 1978. It was very faint, only about 5.0 magnitude.