

I.B.V.S.

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Konkoly Observatory
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VISUAL OBSERVATIONS OF AD LEONIS

The flare star AD Leo was observed visually for a total of 14.4 hours during the January-February 1973 international programme by members of the Variable Star Section of the British Astronomical Association. Hours of coverage are given below, parentheses indicating poor sky conditions.

1973	U.T.	Observers
Jan 27	2105-2140, 2200-2230, 2249-2320	AMS, DK
30	(2037-2248)	AMS, DK
Feb 1	(2016-2035), (2130-2229)	AMS, DK, JRS
3	2116-2120, (2130-2150), 2150-2236, 2318-2400	AMS, DK, KH, RM, GP, DK, FG, PAM
4	0000-0109, (0112-0157), 0200-0351, (0353-0437), 0439-0454	AMS, KH, RM, GP, DK, FG, PAM
9	2015-2051, 2356-2400	DK, FG, GP, JK, RAP
10	0000-0200	RAP

The observers were A.M. Savill, D. Keir, J.R. Savill, K. Hall, R. McKay, G. Prior, F. Gribbin, P.A. Moore, J. Kent, R.A. Paterson.

Slow variations on a time scale of minutes or tens of minutes were suspected by several observers, but their reality is doubted. Six possible flares were recorded:

1973	U.T.	Amplitude	Duration
Jan 27	21 ^h 05 ^m .0	0. ^m 7	6 ^m
Feb 3	21 49.5	0.6	7
4	00 46.0	0.3	5
	02 49.0	0.7	9
	03 25.0	0.5	3
9	20 47.0	0.3	2

Total coverage 14^h21^m over 5 nights.

CORRECTED PERIOD FOR MT Her

The following observations were used to determine a more accurate period for the eclipsing binary MT Her:

Minima

J.D.hel

24.....

26 860,427 H.U.Sandig, AN 278, 1950, 187

28 749,401 "

31 000,210 GK Moscow 1969

33 180,304 H.U.Sandig, AN 278, 1950, 187

34 226,447 M.Kaprowicz, SAC 25, 1954

34 248,409 V.Zonn, PZ 10, 1956, 413

34 907,787 J.C.Koch and R.H.Koch, AJ 67,1962,462

34 960,466 V.Zonn, PZ 10,1956, 413

40 716,508 Contr.Brno Obs.,No.12, 1971

40 756,989 "

40 759,439 "

41 114,495 Contr.Brno Obs.,No. 14, 1972

41 117,417 "

41 154,481 "

The new light elements are:

$$JD = 2441117,417 + 0^d,48771779$$

$$\pm 2 \qquad \pm 29$$

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