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CCD OBSERVATIONS OF THE OUTBURST OF V838 Mon

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Name of the object:
V838 Mon

Equatorial coordinates:	Equinox:
R.A. = 07 ^h 04 ^m 05 ^s DEC. = -03°50'51"	2000

Observatory and telescope:
P. Sobotka and O. Pejcha: N. Copernicus Observatory Brno, 40 cm Newtonian telescope; L. Šmelcer: Valašské Meziříčí Observatory, Schmidt-Cassegrain 280/1764 telescope; L. Král and M. Kolasa: Johann Palisa Observatory, photo lens ($D = 55$ mm, $f = 600$ mm); K. Hornoch: Private observatory, 35 cm Newtonian telescope; F. Lomoz: Sedlčany Observatory, photo lens ($D = 90$ mm, $f = 360$ mm)

Detector:	P. Sobotka, O. Pejcha, L. Šmelcer, L. Král and M. Kolasa: SBIG ST-7 camera; K. Hornoch: SBIG ST-6 camera; F. Lomoz: SBIG ST-5 camera;
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Filter(s):	P. Sobotka and O. Pejcha: V, R, I ; L. Šmelcer: V ; L. Král and M. Kolasa: R filter of the RGB set (http://www.sbig.com/sbwhtmls/oldfilterchart.htm); K. Hornoch: R_C ; F. Lomoz: R, G, B filters of the RGB set
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Comparison star(s):	GSC 4822.3559, ($V = 10.707$ mag, $B - V = 0.037$ mag, Henden 2002)
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Check star(s):	GSC 4822.0321
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Transformed to a standard system:	No
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Availability of the data:	
Through the IBVS Web-site (5336-t1.txt).	

Type of variability:	Unique
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Remarks:	
<p>V838 Mon was discovered as an apparent nova by Brown (2002) at photographic magnitude 10. The photometric evolution has been very slow since discovery. The star has faded almost to magnitude 11 until 2002 Feb. 1. However, on 2002 Feb. 2 one of us (L. Šmelcer) noticed on his CCD frames that V838 Mon suddenly brightened to magnitude 8 in the V band. The information was relayed by Brát (2002).</p> <p>Here we present all 4217 CCD observations of the MEDUZA Group (part of Variable Star Section of the Czech Astronomical Society). To search for periodicities in our high speed photometry (carried out during the rising to the second maximum) we have fitted and subtracted a straight line from data taken during each night and in each passband and submitted them to the DFT (Sperl 1998). We did not detect any real period above 0.02 mag level.</p>	

Acknowledgements:	
<p>We acknowledge the overall support and the use of the telescope with CCD camera of the N. Copernicus Observatory and Planetarium and Observatory and Planetarium of Johann Palisa. This research made use of the SIMBAD data base, operated by the CDS at Strasbourg, France.</p>	

References:

- Brát, L., 2002, Vsnet-alert, No. 7131
 (<http://www.kusastro.kyoto-u.ac.jp/vsnet/Mail/vsnet-alert/msg07131.html>)
- Brown, N. J., 2002, *IAUC*, **7785**, 1
- Henden, A. A., 2002, <ftp://ftp.nofs.navy.mil/pub/outgoing/aah/sequence/v838mon.dat>
- Sperl, M., *Comm. Asteroseismology*, **111**

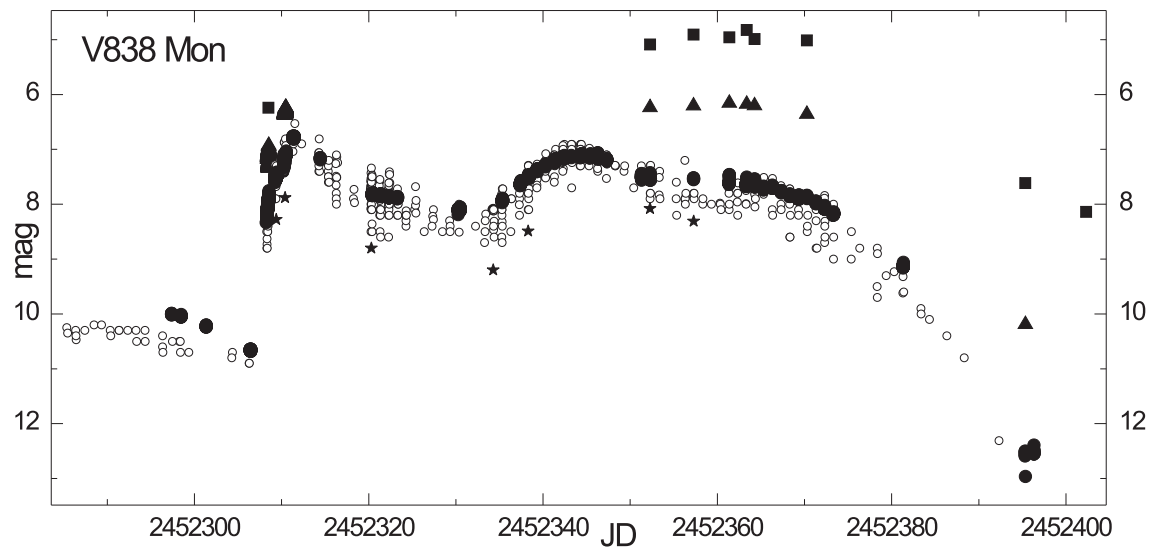


Figure 1. MEDUZA CCD and MEDUZA + VVS, WVS Belgium visual observations of V838 Mon. Filled circles represents CCD *V*, star shaped symbols CCD *B*, triangles CCD *R* and squares CCD *I* respectively. Visual observations are plotted as open circles.

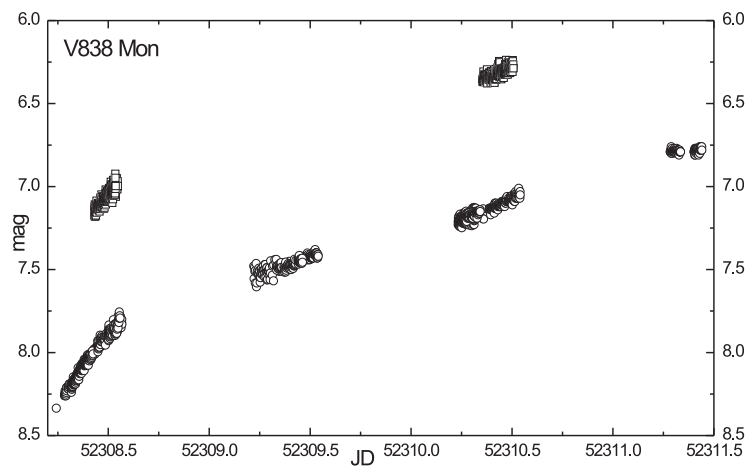


Figure 2. MEDUZA CCD observations of the second outburst of V838 Mon. Open circles represents CCD *V* data and open squares represents CCD *R* data.