

COMMISSIONS 27 AND 42 OF THE IAU
INFORMATION BULLETIN ON VARIABLE STARS

Number 3879

Konkoly Observatory
Budapest
13 May 1993

HU ISSN 0324 - 0676

A NEW VARIABLE STAR GSC 4383.0384

Observing supernova 1993J in the evening April 16, 1993 at 19:15 UT, Kamil Hornoch and Jan Kyselý (at 19:12 UT) independently noticed a brightness change of a star plotted in a special AAVSO chart for SN 1993J at NGC 3031 (M81). The star is some 9.7 north and 4.7 west with respect to the center of M81 galaxy.

The star's number in the Guide Star Catalog [1] is 4383.0384, $\alpha = 9^{\text{h}}54^{\text{m}}28^{\text{s}}.9$, $\delta = +69^{\circ}13' 22''$ (equinox 2000.0) its brightness is given there as 10.80 mag. The star is not included in the General Catalogue of Variable Stars [2] nor in the New Catalogue of Suspected Variable Stars [3].

Visual observation by K. Hornoch, J. Kyselý and other visual observers will be published in [4].

K. Hornoch's message arrived immediately at the N. Copernicus Observatory and Planetarium in Brno, where the star was measured the same night by the photometer (uncooled EMI 6256 photomultiplier) of our 0.4 m telescope and variability of this star was definitely confirmed. In the course of photoelectric measurements HD 86677 ($V=7.876$ mag, $B-V=+0.510$, Hipparcos Input Catalogue [5]), was used as the comparison star, check stars were HD 85458, HD 85743 and GSC 4383.0565. Their V and $B-V$ data indicate that the comparison star is constant, whereas the GSC 4383.0384 exhibited apparent light variations, when we measured it. Up to now we measured six nights and we caught two maxima and two minima. The V amplitude the star can be estimated at 0.3 mag and period about dozen hours. More detailed information on the photoelectric measurements of the new variable will be published later.

Dalibor HANŽL
N. Copernicus Obs.
and Planetarium
616 00 BRNO
Czech Republic
(E-mail: HANZL@CSBRMU11)

Jan KYSELÝ
Čs. Armády
258 01 VLAŠIM
Czech Republic

Kamil HORNOCH
Paseky 392
664 31 Lelekovice
p. ČESKÁ
Czech Republic

References:

- [1] The Guide Star Catalogue, ver. 1.1, 1992, Space Telescope Science Institute, Baltimore.
- [2] Kholopov, P.N., Samus, N.N., Frolov, M.S., Goranskij, V.P., Gorynya, N.A., Karitskaya, E.A., Kazarovets, E.V., Kireeva, N.N., Kukarkina, N.P., Medvedeva, G.I., Pastukhova, E.N., Perova, N.B., and Shugarov, S.Yu, 1987, General Catalogue of Variable Stars, Vol. III., Nauka, Moscow.
- [3] Kukarkin, B.V., Kholopov, P.N., Artiukhina, N.M., Fedorovich, V.P., Frolov, M.S., Goranskij, N.A., Gorynya, N.A., Karitskaya, E.A., Kireeva, N.N., Kukarkina, N.P., Kurochkin, N.E., Medvedeva, G.I., Perova, N.B., Ponomareva, G.A., Samus', N.N. and Shugarov, S. Yu, 1982 New Catalogue of Suspected Variable Stars, Nauka, Moscow.
- [4] Contributions of the Nicholas Copernicus Observatory and Planetarium in Brno No. 31.
- [5] Turon, C., et al., 1992, Hipparcos Input Catalogue.