

# VARIABLE STAR BULLETIN

No. 11

JUNE 1990

## REVISED ELEMENTS FOR EH CANIS MAJORIS

M. Koshiro (Suwa, Nagano)

EH CMa was discovered by S. Kaho (1956). His elements are :

$$M = \text{JD } 2434393 + 290^{\text{d}} \text{ E}$$

Using the Harvard College Observatory photographic plate collection, M. G. Lysaght revised the elements as follows :

$$M = \text{JD } 2447119 + 295.5^{\text{d}} \text{ E}$$

80 visual observations were carried out by the writer (1982 ~ 1989) and five maxima were derived. Using the date of maxima which were published by Kaho and the writer's, the following elements have been obtained independently of M. G. Lysaght.

$$M = \text{JD } 2447111 + 296.26^{\text{d}} \text{ E}$$

Range : 9.5 ~ 12.6(v) Mira type.

Judging from the O-C in 1980s, it seems that longer period may be expected.

### References

Kaho, S. 1956, Tokyo Astron. Bull., Second Ser., 87.

Lysaght, M. G. 1988, Journ. Amer. Assoc. Var. Star Obs. 17, 102.

Max JD	E	O-C
2434343	-43	21.2
4646	-42	-22.1
4968	-41	3.7
2445018	-7	-19.2
5327	-6	-6.4
6521	-2	2.5
6815	-1	0.3
7129	0	18.0

A POSSIBLE CATAclySMIC VARIABLE  
IN CASSIOPEIA

M. Iida (Nagano)

The writer found a 10 mag. star in Atlas Stellarium (chart number 23 Cas). The star is not found in another chart of Atlas Stellarium, Lick Observatory Sky Atlas, Falkau Atlas and True Visual Magnitude Photographic Star Atlas.

Inspecting Palomar Chart, it is possible that the following 18 mag. blue star outbursts.

R. A. 01h 15m 57s  
DEC +63° 25' 57" (1950)

Judging from the colour at minimum and the amplitude of magnitude, the star may be nova or cataclysmic type.

REVISED ELEMENTS FOR AD DRACONIS

S. Sakuma (Kawasaki)

AD Dra was discovered by S. Kanda (1941), who assigned it the following elements:

$$M = \text{JD } 2430291 + 225.5^d \text{ E}$$

The writer found a period of 218.2 days from 209 observations (Sept. 1977 - Apr. 1990). 209 observations were carried out by H. Narumi (184), O. Shigehisa (7), M. Hiraga (4) and the writer (14). They are partially published by VSOLJ, but most of all are under computerizing for the Database of Variable Stars in Japan.

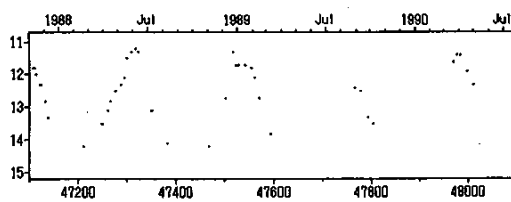
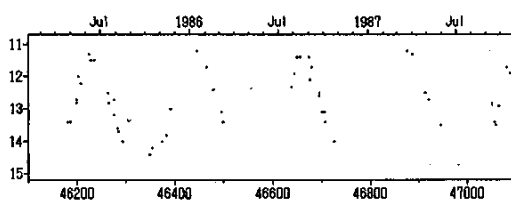
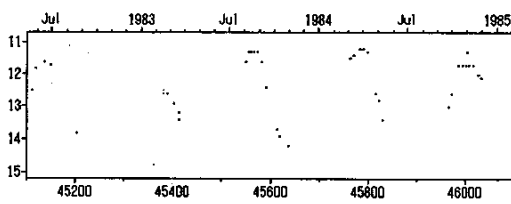
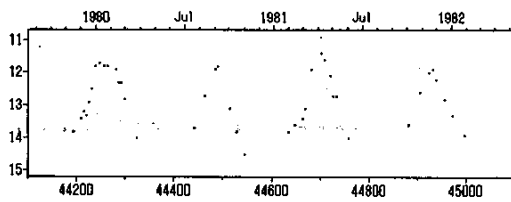
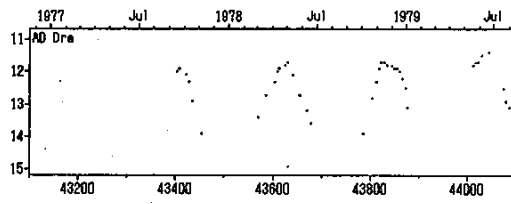
The revised elements are :

$$M = \text{JD } 2446231 + 218.2^d \text{ E}$$

O-Cs in the table are calculated by the revised elements.

References

- Kanda, S. 1942, Tokyo Astron. Bull., 647.  
Light Curves of Variable Stars by VSOLJ. 1. Mira Type Variable Stars for  
JD 2445950 - 2447050 (1990).



Obs. Max. JD	E	O - C
2416380	-137	+ 42
8538	-127	+ 18
2430060	- 74	- 24
0290	- 73	- 12
0518	- 72	- 3
2443406	- 13	+ 12
3610	- 12	- 3
3822	- 11	- 9
4035	- 10	- 14
4247	- 9	- 20
4485	- 8	0
4701	- 7	- 3
4930	- 6	+ 8
5135	- 5	- 5
5560	- 3	- 16
5785	- 2	- 10
6006	- 1	- 7
6231	0	0
6444	1	- 5
6663	2	- 4
6876	3	- 10
7100	4	- 4
7318	5	- 4
7522	6	- 18
2447976	8	+ 3

---

VARIABLE STAR OBSERVERS LEAGUE  
IN JAPAN

NATIONAL SCIENCE MUSEUM, Ueno Park, Taito-ku, Tokyo 110, JAPAN

---

Editor Keiichi Saijo  
Associate editor Seiichi Sakuma, Mituo Kanai  
Local coordinator Satoshi Akita, Kikuichi Arai, Sukehiro Fujino  
Kazuaki Gomi, Kenji Hirose, Hisashi Kanazawa  
Masami Koshiro, Masashiro Moriya, Makoto Watanabe

---