

COMMISSION 27 OF THE I. A. U.  
 INFORMATION BULLETIN ON VARIABLE STARS  
 NUMBER 537

Konkoly Observatory  
 Budapest  
 1971 April 18

THE SUPERNOVA SERVICE OF THE ABASTUMANI  
 ASTROPHYSICAL OBSERVATORY

In accordance with the discussion which took place in Brighton at the General Assembly of the IAU I give here the data of observations connected with the Supernova Service of the Abastumani Astrophysical Observatory.

We participate in the international Supernova Service since 1962 with our Schmidt Camera 36/44.4/62.5 cm, having a field of 42 square degrees. The magnitude limit is 15.2 on A-600 film with 5-minute exposure time.

The coordinates of the centre of our areas are given in Table 1. In Table 2, separately for each area and year, the following data are given:

- Column a: Number of observational night
- "  $\bar{b}$ : Net exposure time
- "  $\bar{c}$ : Total number of observational night in 1962-70)
- "  $\bar{d}$ : Net exposure time for each area obtained in 1962-70
- "  $\bar{e}$ : Same as  $\bar{d}$ , but expressed in fractions of a day.

Table 1. Centre of Areas

(1950)			(1950)		
Area	RA	D	Area	RA	D
1	00 <sup>h</sup> 04 <sup>m</sup>	+47° 35'	13	10 <sup>h</sup> 45 <sup>m</sup>	+15° 00'
2	11 54	+48 00	14	11 20	+13 00
3	12 00	+50 00	15	11 25	+58 50
4	12 18	+15 00	16	11 38	+47 38
5	12 30	+ 5 00	17	12 27	+ 8 16
6	12 30	+15 00	18	12 30	- 5 00
7	12 30	+25 00	19	12 30	-10 00
8	14 52	+11 30	20	12 30	+ 5 00
9	15 00	+ 2 00	21	12 30	+10 00
10	18 16	+24 00	22	12 30	+15 00
Additional Centres			23	12 45	-10 00
11	8 54	+ 3 08	24	12 45	- 5 00
12	10 45	+13 00	25	16 41	+36 50



Table 2 (cont.)

Area	1968		1969		1970		c	d	e
	a	b	a	b	a	b			
1	12	1h20m	-	-	-	-	75	11h55m	0.4965
2	44	5 00	31	3h30m	25	2h22m	173	24 37	1.0257
3	-	-	-	-	-	-	50	11 50	0.4931
4	41	4 40	30	3 45	24	2 12	168	22 42	0.9458
5	-	-	-	-	22	1 52	80	14 22	0.5986
6	-	-	-	-	-	-	49	11 50	0.4931
7	-	-	-	-	22	1 52	22	1 52	0.0778
8	24	2 50	8	0 40	-	-	110	16 20	0.6806
9	-	-	-	-	-	-	51	12 40	0.5278
10	29	4 15	-	-	-	-	105	16 35	0.6910
11	5	0 25	-	-	-	-	5	0 25	0.0174
12	8	0 40	-	-	6	0 30	46	4 55	0.2049
13	5	0 25	-	-	-	-	5	0 25	0.0174
14	8	0 40	1	0 50	4	0 20	28	3 25	0.1424
15	-	-	5	0 25	-	-	5	0 25	0.0174
16	-	-	7	0 35	-	-	7	0 35	0.0243
17	-	-	3	0 15	-	-	3	0 15	0.0104
18	5	0 25	-	-	-	-	7	0 35	0.0243
19	4	0 20	-	-	-	-	6	0 30	0.0208
20	6	0 30	-	-	-	-	9	0 45	0.0313
21	6	0 30	1	0 05	5	0 21	26	2 41	0.1118
22	6	0 30	-	-	6	0 28	17	1 23	0.0576
23	4	0 20	-	-	-	-	16	2 20	0.0972
24	5	0 25	-	-	-	-	20	2 55	0.1215
25	5	0 25	-	-	9	1 25	14	1 50	0.0764

Abastumani Astrophysical Observatory