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 INFORMATION BULLETIN ON VARIABLE STARS
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 Astronomisches Institut der Universität Erlangen-Nürnberg
 Band X, Nr. 105

NEW FAINT SOUTHERN VARIABLE STARS

On sky patrol plates, taken with the 10 inch Metcalf at the Boyden Observatory Bloemfontein, South Africa, further 30 stars were found to be variable. (22 new stars and 8 stars listed already in the Catalogue of Suspected Variable Stars, CSV).

The brightness of these stars are obtained from the Harvard-Groningen-Atlas, Selected Areas (edition 1965 by A. Brun and H. Vehrenberg).

Finder-Charts are 1° in declination, south is up.

BV-Nr.	RA	Decl. 1900.0	Max Brightness	Ampl. pg	Type	Remarks
BV 1521	Hya	03 ^h 23 ^m 30 ^s -72°27'9	13 ^m .8	0 ^m .6	RR	1
		=CSV 306 = HV 11932				
BV 1522	Men	04 05 02 -78 10.2	13.0	1.1	EA	2
BV 1523	Men	04 15 58 -79 41.9	13.5	0.6	L	3
BV 1524	Men	04 36 08 -74 41.4	13.7	0.5	EA	4
BV 1525	Men	04 46 27 -70 25.8	12.5	1.0	-	-
		=CSV 447 = HV 8036				
BV 1526	Men	= CAP -70°03'25 (9 ^m 7)	9.7	0.4	EA	5
BV 1527	Men	05 42 32 -79 45.2	13.9	0.6	L	6
BV 1528	Men	06 21 37 -79 38.4	13.6	0.5	EA	7
BV 1529	Vol	07 14 24 -71 36.9	13.1	0.5	EB?	8
BV 1530	Men	07 18 07 -79 34.6	13.2	0.7	EA	9
BV 1531	Men	07 38 50 -76 37.9	13.1	0.6	L	10
BV 1532	Vol	07 49 42 -71 36.0	12.2	3.3	?	-
		=CSV 1170 = HP 8098 = 108.1933				
BV 1533	Cha	08 09 03 -75 53.8	13.4	0.8	RR	11
BV 1534	Vol	08 13 39 -72 11.8	14.1	0.6	M	12
BV 1535	Cha	08 20 36 -75 27.3	13.2	0.9	L	13
BV 1536	Vol	08 44 21 -70 45.5	15.0	0.5	-	-
		= CSV 1370 = HV 8162				
BV 1537	Cha	08 54 31 -75 37.6	14.1	0.7	RR	14
BV 1538	Cha	10 04 50 -77 39.2	13.9	0.7	L	15
BV 1539	Cha	10 16 17 -79 25.2	13.5	0.6	L	16
BV 1540	Cha	10 31 27 -79 19.7	13.5	0.5	FB	17
		= CSV 6790 = S 6307				
BV 1541	Cha	10 35 51 -78 53.5	14.5	0.5	L	18
		= CSV 6793 = S 6310				
BV 1542	Car	10 36 53 -71 27.4	12.9	0.9	EA	19
BV 1543	Car	10 42 25 -71 32.3	12.5	2.5	N	20
BV 1544	Car	11 04 00 -72 41.4	13.0	1.0	?	21
		= CSV 6819 = S 6338				
BV 1545	Mus	11 15 54 -72 52.0	14.0	0.9	L	22
		= CSV 1729 = HV 8356 = 135.1934				
BV 1546	Mus	11 29 34 -69 59.5	14.2	0.6	L	23
BV 1547	Mus	11 56 46 -71 41.5	13.8	0.7	EA	24
BV 1548	Cha	12 36 58 -77 13.6	14.2	0.4	L	25
BV 1549	Mus	13 54 25 -64 20.2	11.3	0.2	L	26
BV 1550	TrA	= CAP -64°03'21.8	9.9	0.4	EA	27

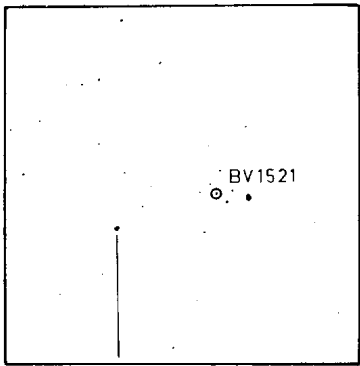
Remarks:

- 1 few good maxima
- 2 few minima, not enough for a period
- 3 many maxima and minima, irregular type
- 4 many maxima, few minima, but not enough for a period
- 5 many maxima, few minima, not enough for a period
- 6 irregular type
- 7 many maxima, few minima, not enough for a period
- 8 many maxima and minima, short period ?
- 9 many maxima, few minima, not enough for a period
- 10 many maxima and minima, irregular type
- 11 few good maxima
- 12 probably an M-type variable
- 13 many maxima and minima, irregular type
- 14 few good maxima
- 15 many maxima and minima, irregular type
- 16 many maxima and minima, rather difficult
- 17 many maxima, short period
- 18 many maxima, but more minima, irregular type
- 19 many maxima, few minima, eclipsing binary, $P \approx 2^d$
- 20 probably a Nova. The results are given below

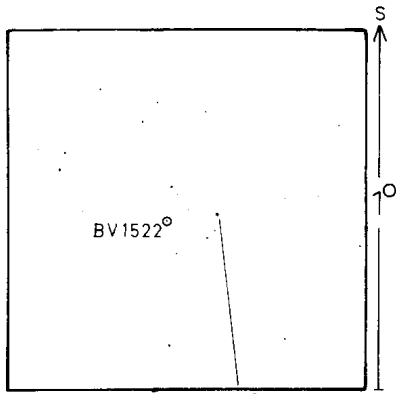
	Date	Julian Date	Magnitude
1969	March 23	2440304.413	15.2
1970	Febr. 7	0625.514	12.4
	Febr. 9	0627.483	12.2
	Febr. 11	0629.503	12.4
	Febr. 12	0630.094	12.6
	Febr. 15	0633.096	13.2
	March 1	0647.420	13.9
	March 3	0649.034	14.2
	March 29	0675.341	15.2
	March 30	0676.346	15.2
	April 3	0680.322	15.2

No values between March 23, 1969 and Febr. 7, 1970.

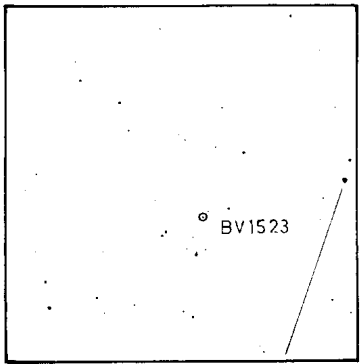
- 21 only one bright maximum, long period
- 22 many maxima and minima, irregular type
- 23 many maxima and minima, rather difficult
- 24 few minima, not enough for a period
- 25 irregular type
- 26 many minima, but more maxima
- 27 few minima, not enough for a period, eclipsing binary



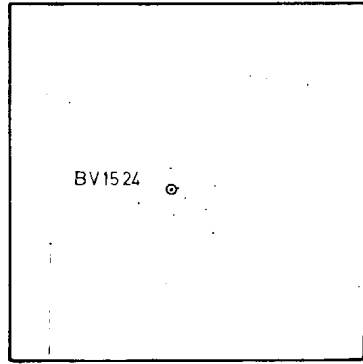
CAP -72°238 (85)



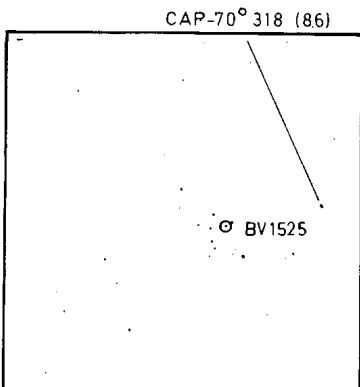
CAP -78°126 (88)



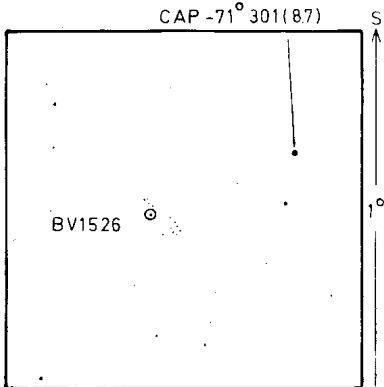
CAP -79°141 (68)



CAP -74°292 (92)

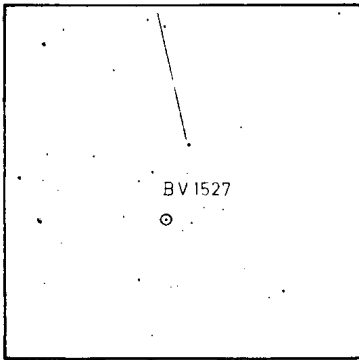


CAP -70°318 (86)

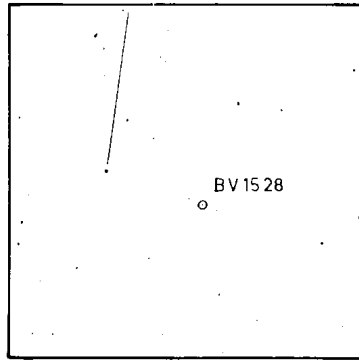


CAP -71°301 (87)

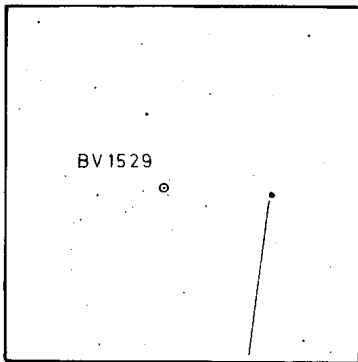
CAP -79°193(80)



CAP -79°214(86)

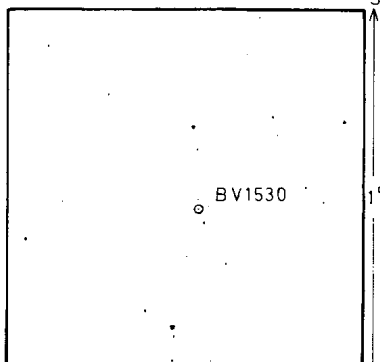


BV1529



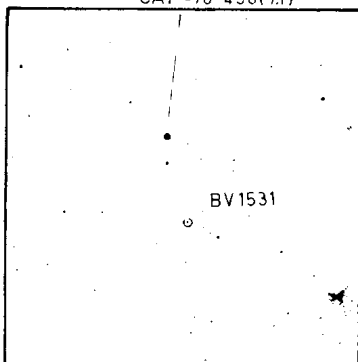
CAP -71°557(77)

BV1530

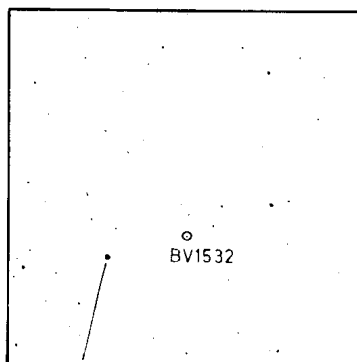


CAP -79°243(72)

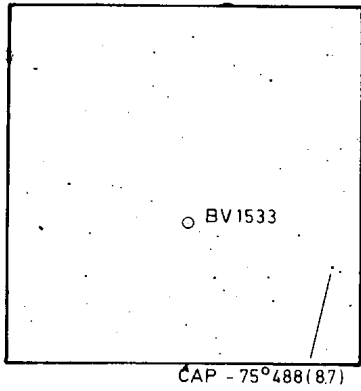
CAP -76°458(71)



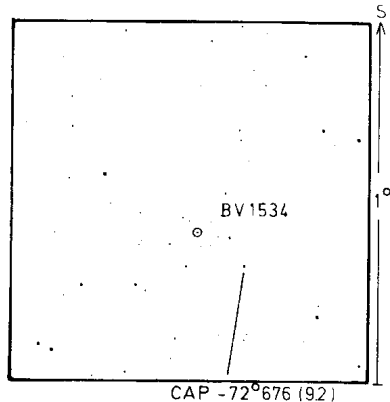
BV1532



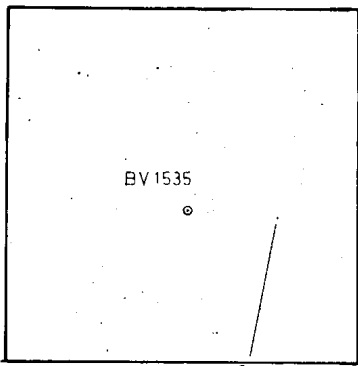
CAP -71°618(76)



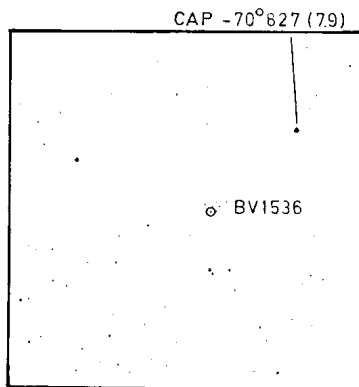
CAP - 75°488 (87)



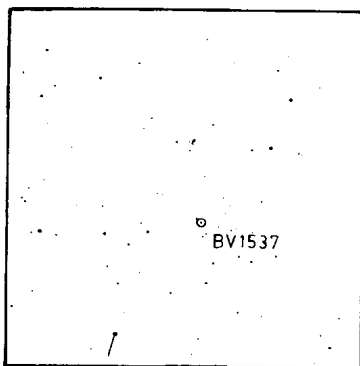
CAP - 72°676 (92)



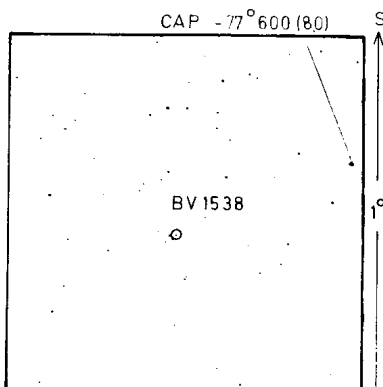
CAP - 75°499 (92)



CAP - 70°627 (79)

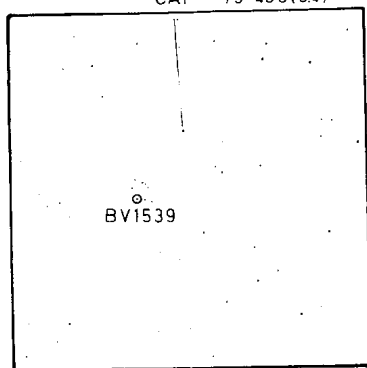


CAP - 75°541 (79)

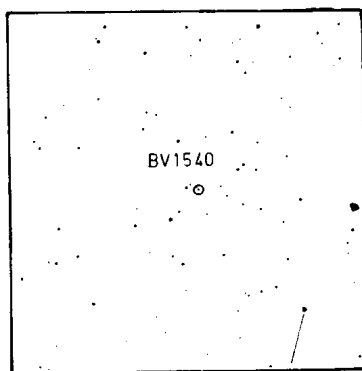


CAP - 77°600 (80)

CAP - 79°495(94)

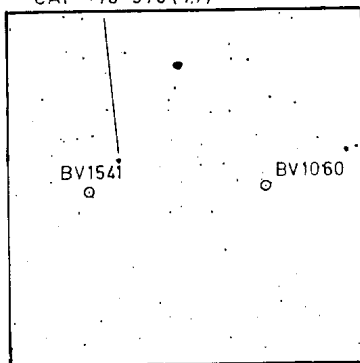


BV1540



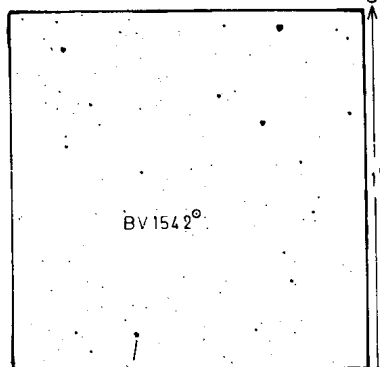
CAP - 78°570(77)

CAP - 78°570 (77)



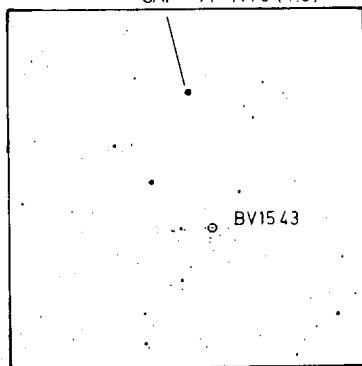
S

BV1542



CAP - 71°1075 (83)

CAP - 71°1118 (76)



CAP - 72°1089(76)

