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INFORMATION BULLETIN ON VARIABLE STARS

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Veröffentlichungen der Remeis-Sternwarte Bamberg  
Astronomisches Institut der Universität Erlangen-Nürnberg  
Band X, Nr. 115

NEW FAINT SOUTHERN VARIABLE STARS

On sky patrol plates (red and blue) taken at the Southern Station of the University of Florida, Gainesville and the Remeis-Sternwarte, Bamberg, at the Mount John Observatory, New Zealand, the 20 stars of the following list were found to be variable (17 new stars and 3 stars listed already in the Catalogue of Suspected Variable Stars, CSV).

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

Finding charts are  $1^{\circ}$  in declination and south is up.

BV-Nr.	RA	Decl.	max. 1900.0	Ampl.	Type	Remarks
BV 1622 Hya	$14^{\text{h}}26^{\text{m}}58^{\text{s}}$	$-26^{\circ}19'3$	12 <sup>m</sup> 8	0 <sup>m</sup> 5	EA	1
	=CSV 7139	= S 6580				
BV 1623 Lib	14 30 24	-23 55.7	12.5	0.9	EA	2
BV 1624 Lib	14 48 45	-15 12.8	13.0	0.9		3
BV 1625 Lib	14 59 04	-17 01.6	12.5	1.1	EA	4
BV 1626 Lib	=CoD	-26 <sup>o</sup> 10719 (10 <sup>m</sup> )		0.9		5
BV 1627 Lib	15 09 06	-14 56.0	12.8	1.0	EA	6
	=CSV 2300	= HV 8693				
BV 1628 Lup	15 14 34	-52 44.2	11.7	0.6	EA	7
BV 1629 Sco	16 05 02	-16 20.3	13.6	0.6	L	8
	=CSV 2595	= Ross 174				
BV 1630 Sco	=BD -15 <sup>o</sup> 4276 (9 <sup>m</sup> 5)			0.6	L	9
BV 1631 Ser	17 35 37	-13 29.0	12.8	0.6	L	10
BV 1632 Ser	17 56 23	-15 31.6	12.5	0.7	EA	11
BV 1633 Tel	18 19 10	-49 11.1	12.4	0.6*		12
BV 1634 Sgr	18 38 06	-17 18.8	12.6	0.8		13
BV 1635 Sct	18 38 40	-06 44.6	13.1	0.9*		14
BV 1636 Sgr	19 14 59	-12 02.9	13.0	0.7	L	15
BV 1637 Sgr	19 22 28	-15 51.4	13.1	0.9*	L	16
BV 1638 Aql	19 38 40	-11 33.7	10.8	0.7	L	17
BV 1639 Sgr	19 48 24	-18 56.0	12.9	0.7		18
BV 1640 Cap	20 12 00	-11 16.2	11.9	0.9	EA	19
BV 1641 Cap	20 31 54	-15 58.0	12.3	0.9	L	20

\* = Amplitude until plate limit.

## Remarks:

- 1 Few minima, not enough for a period
  - 2 Few minima, not enough for a period
  - 3 More minima than maxima, and values between
  - 4 Few minima, not enough for a period
  - 5 Few good maxima
  - 6 BV 1627 Lib = CSV 2300 = HV 8693
- With these minima the following primary period was found:

$$\text{Min} = \text{JD } 243\ 8906.350 + 1^{\text{d}}.130\ 47^\circ\text{E}$$

Minima	E	O - C
243 8855.507 (1/2)	-45	+0.028
8906.355	0	+0.005
8940.265	30	+0.001
9270.353	322	-0.008
9287.307	337	-0.011
244 1755.182 (1/2)	2520	+0.048
2136.110	2857	+0.007

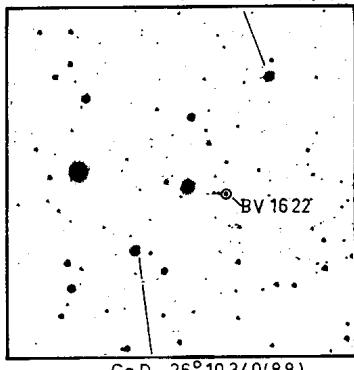
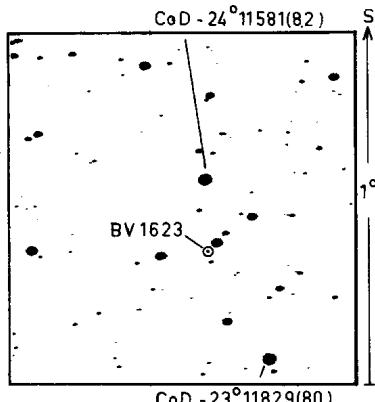
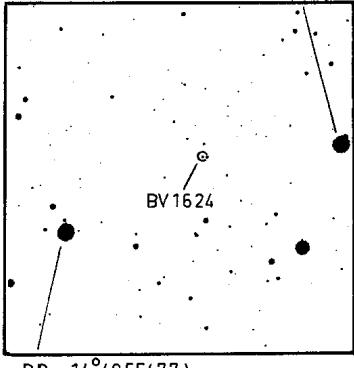
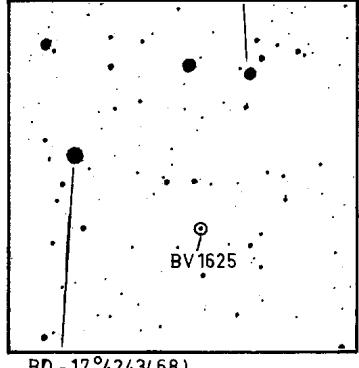
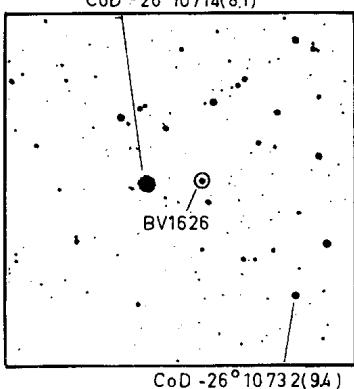
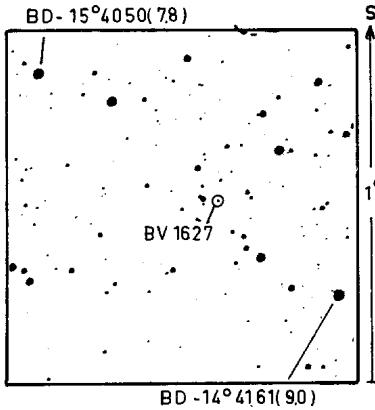
Amplitude 1<sup>m</sup>0; without a secondary minimum, EA type.

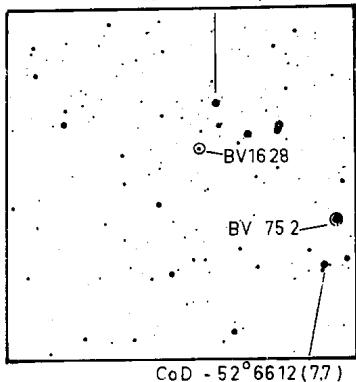
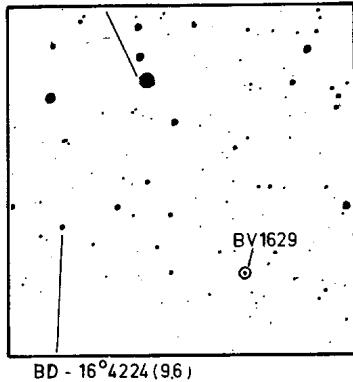
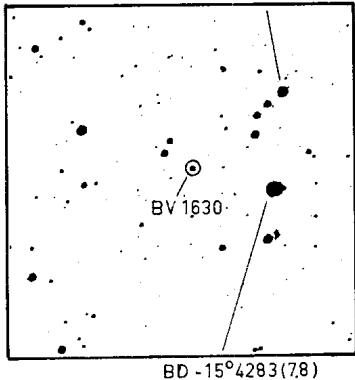
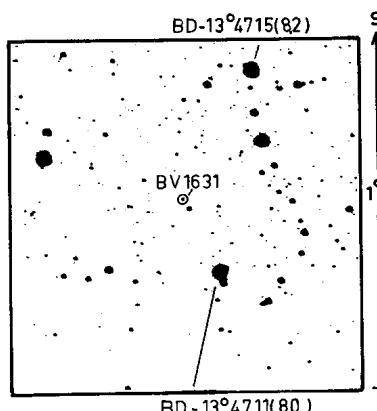
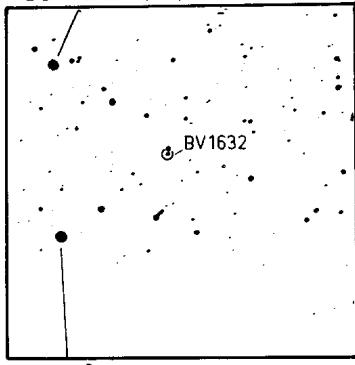
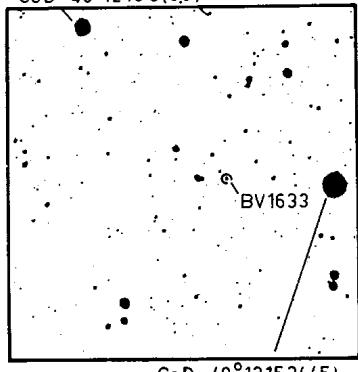
- 7 Only 5 minima in 139 plates
- 8 Many maxima and minima, rather difficult
- 9 Many maxima and minima
- 10 Many maxima and minima
- 11 Only 2 minima in 50 plates
- 12 Several maxima, minima below plate limit, rather difficult
- 13 Few good maxima
- 14 Several maxima, minima below plate limit
- 15 Many maxima and minima, and values between
- 16 Maxima and minima, and values between
- 17 Many maxima and minima, and values between
- 18 More minima, rather difficult
- 19 Very few minima, not enough for a period
- 20 Many maxima and minima, and values between

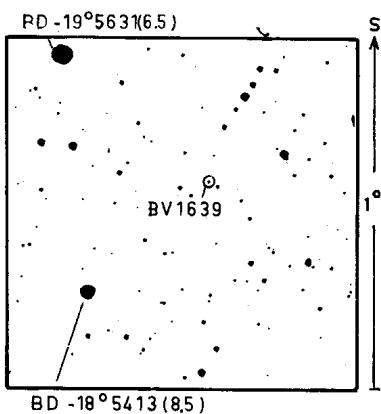
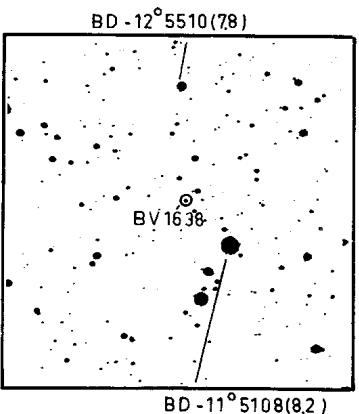
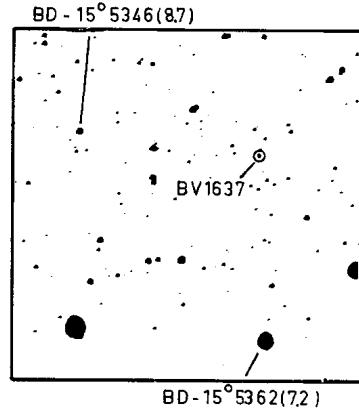
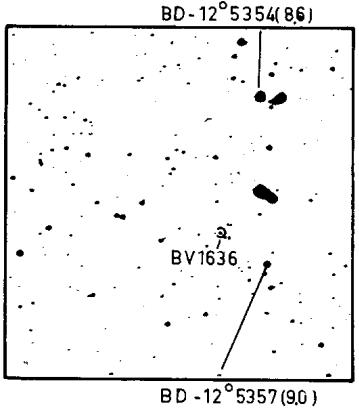
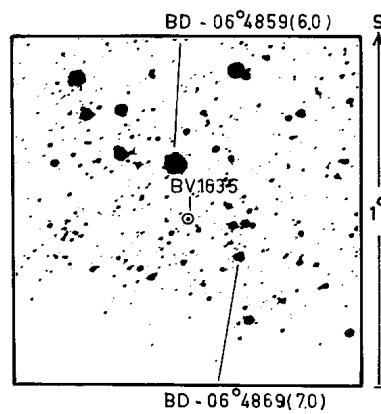
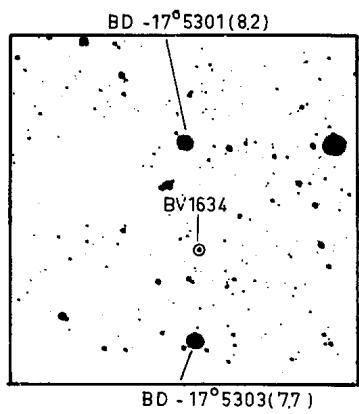
The above 20 variable stars were found whilst on a short stay at the Remeis-Sternwarte Bamberg. I would like to thank the Director, Prof.Dr.W.Strohmeier and Mr.R.Knigge of the Remeis-Sternwarte for their most valuable assistance in the preparation of this paper. Also thanks to Mr.M.Clark for taken the plates.

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 and South African Astronomical  
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CoD - $26^{\circ}$ 10357(9.2)CoD - $24^{\circ}$ 11581(8.2)BD - $15^{\circ}$ 3986(8.0)BD - $17^{\circ}$ 4249(8.9)CoD - $26^{\circ}$ 10714(8.1)BD - $15^{\circ}$ 4050(7.8)

CoD -  $52^{\circ}6592(8.3)$ CoD -  $52^{\circ}6612(7.7)$ BD -  $16^{\circ}4230(7.8)$ BD -  $16^{\circ}4224(9.6)$ BD -  $15^{\circ}4284(7.8)$ BD -  $15^{\circ}4283(7.8)$ BD- $13^{\circ}4715(8.2)$ BD -  $13^{\circ}4711(8.0)$ BD -  $15^{\circ}4767(8.7)$ BD -  $15^{\circ}4769(8.2)$ CoD -  $49^{\circ}12105(6.6)$ CoD -  $49^{\circ}12153(4.5)$



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