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 INFORMATION BULLETIN ON VARIABLE STARS
 NUMBER 81

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BRIGHT SOUTHERN BV - STARS

On sky patrol plates of Bamberg Southern Station 37 further stars have been found whose variability seems to be real as can be seen from the material available till now.

- BV 566 = CoD $-59^{\circ}5398(9^{\text{m}}.1)$ = HD 129 935(B8) = $A_{\text{pg}} = 0^{\text{m}}.5$
- BV 567 = CoD $-67^{\circ}1660(9^{\text{m}}.7)$ Light-curve Fig.1 $A_{\text{pg}} = 0^{\text{m}}.4$
 Min = $243.8232.773 + 1.03026 \text{ d} \cdot E$
 (EB)
- BV 568 = Cap $-65^{\circ}2960(9^{\text{m}}.6)$ $A_{\text{pg}} = 0^{\text{m}}.6$
- BV 569 = CoD $-53^{\circ}6024(10^{\text{m}}3/4)$ Light-curve Fig.2 $A_{\text{pg}} = 1^{\text{m}}.0$
 Min = $243.8499.554 + 4.102 \text{ d} \cdot E$
 (EA)
- BV 570 = CoD $-47^{\circ}10300(8^{\text{m}}.9)$ max = 11^{m} , min = under plate limit
- BV 571 = BD $-21^{\circ}4189(10^{\text{m}})$ $A_{\text{pg}} = 0^{\text{m}}.3$
- BV 572 = CoD $-53^{\circ}6488(6^{\text{m}}.5)$ = HD 145 384(Ma) $A_{\text{pg}} = 0^{\text{m}}.4$
 = 39 Nor
- BV 573 = CoD $-53^{\circ}6533(6^{\text{m}}.3)$ = HD 146 003(Ma) $A_{\text{pg}} = 0^{\text{m}}.4$
- BV 574 = CoD $-44^{\circ}10742(9^{\text{m}}.6)$ = HD 146 241(Ao) $A_{\text{pg}} = 0^{\text{m}}.4$
 Min = $243.8471.500 + 3.509 \text{ d} \cdot E$
 (EA)

BV 575 = CoD $-65^{\circ}21'26''(9^m.4)$ $A_{pg} = 0^m.6$
 = K3 π 2628
 = S 5022

BV 576 = Star in open cluster Cr 302 (cluster near Antares)
 Center of the cluster: Ident. Chart No. 1
 1900: $16^h17^m30^s$ $-26^{\circ}18'1''$ max = $12^m.8$, min = under plate limit

BV 577 = CoD $-34^{\circ}10'981(7^m.2)$ = HD 147 683(B8) $A_{pg} = 0^m.4$
 Min = 243 8230.080 + $13^d.1015$. E
 (EA) Light-curve Fig. 3

BV 578 = CoD $-43^{\circ}10'900(5^m.5)$ = HD 149 038(Bo) $A_{pg} = 0^m.3$

BV 579 = CoD $-62^{\circ}10'889(9^m.0)$ = HD 149 647(Ao) $A_{pg} = 0^m.3$

BV 580 = CoD $-48^{\circ}11'047(8^m.2)$ = HD 149 967(Mb) $A_{pg} = 0^m.3$

BV 581 = CoD $-54^{\circ}7'490(8^m.9)$ = HD 161 337(B8) $A_{pg} = 0^m.3$
 Max = 243 8498 + 27^d . E
 (Cepheid)

BV 582 = CoD $-45^{\circ}12'024(8^m.9)$ = HD 162 985(A2) $A_{pg} = 0^m.5$
 Min = 243 8229.420 + $0^d.86875$. E
 (EB)

BV 583 = CoD $-29^{\circ}14'267(9^m.0)$ = HD 163 632(Ao) $A_{pg} = 0^m.4$

BV 584 = CoD $-35^{\circ}12'429(7^m.5)$ = HD 167 231(Ao) $A_{pg} = 0^m.2$

BV 585 = 1900: $18^h9^m18^s.7$ $-20^{\circ}38'1''$ Ident. Chart No. 2 $A_{pg} = 0^m.4$

BV 586 = 1900: $18^h15^m15^s.9$ $-18^{\circ}29'7''$ Ident. Chart No. 3 $A_{pg} = 0^m.4$

BV 587 = CoD $-31^{\circ}15'582(9^m.5)$ $A_{pg} = 0^m.4$

BV 588 = CoD $-46^{\circ}12'764(9^m.6)$ = HD 176 387(Ao) $A_{pg} = 0^m.3$

BV 589 = CoD $-26^{\circ}13'888(8^m.3)$ = HD 178 755(B9) $A_{pg} = 0^m.3$

BV 590 = CoD $-47^{\circ}13'121(8^m.2)$ = HD 187 418(A2) $A_{pg} = 0^m.7$
 Min = 243 8282.255 + $0^d.89180$. E
 (EA) Light-curve Fig. 4

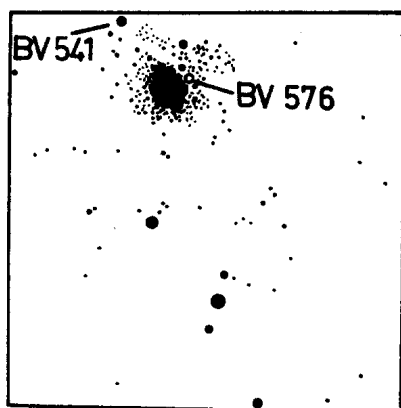
BV 591 = CoD $-58^{\circ}7'640(8^m.5)$ = HD 189 408(Mc) $A_{pg} = 0^m.3$

BV 592 = BD $-12^{\circ}5'641(6^m.2)$ = HD 190 390(F5) $A_{pg} = 0^m.4$

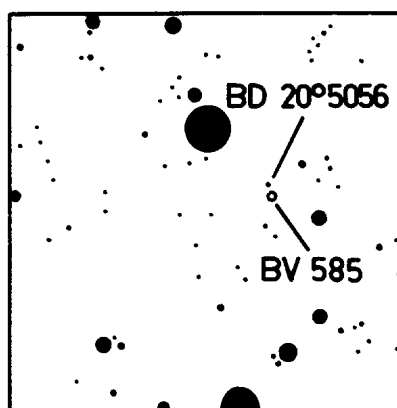
BV 593 = CoD $-33^{\circ}14'857(7^m.2)$ = HD 193 174(Fo) $A_{pg} = 0^m.3$

BV 594 = CoD $-32^{\circ}16'135(9^m.2)$ = HD 196 982(Pec) $A_{pg} = 0^m.6$

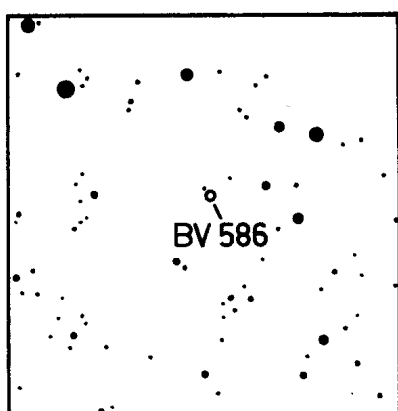
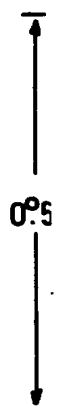
IDENT. CHARTS



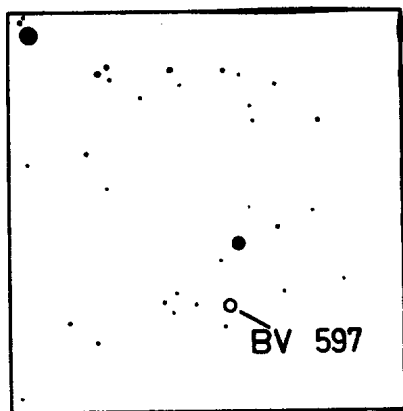
NO. 1



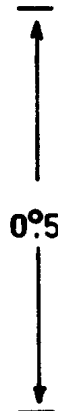
NO. 2



NO. 3



NO. 4



BV 595 = CoD -54^o 8763(8^m.2) = HD 197 163(F2) A_{pg} = 0^m.3
 BV 596 = CoD -51^o 12 696(9^m.7) = HD 197 415(F8) A_{pg} = 0^m.4
 BV 597 = 1900: 20^h 39^m 41^s.9 -23^o 11'.1 Ident. Carth No. 4 A_{pg} = 0^m.4
 max = 11^m.8
 BV 598 = CoD -66^o 2455(10^m.2) A_{pg} = 0^m.3
 BV 599 = CoD -43^o 14 428(8^m.3) = HD 201 964(Ao) A_{pg} = 0^m.4
 BV 600 = BD -17^o 6422(6^m.8) = HD 209 278(A2) A_{pg} = 0^m.8
 Min = 243 8618.250 + 18^d.25 . E
 (EA or EB ?)
 BV 601 = CoD -39^o 14 830(9^m.7) Max = 243 8261.000 + 7^d.536 . E A_{pg} = 0^m.5
 (Cepheid)
 BV 602 = CoD -41^o 15 163(6^m.2) = HD 218 655(Mb) A_{pg} = 0^m.4

Photometric light-curve of BV 567 = CoD -67^o 1660(9^m.7)

(Light-curve Fig. 1)

Comparison-stars:

Cap -67^o 2687(9^m.92)

Cap -67^o 2692(10^m.46)

Magnitudes are obtained by photometric connection to stars from Cousins' * catalogue (HD 143 832 = 7^m.59 and HD 143 039 = 9^m.86)

Min = JD 243 8232.773 + 1^d.030 26 . E, Ampl. 0^m.3, EB

Individual minima (fainter than 10^m.4)

Minima	E	O - C
243 8233.264	0.5	- 0 ^d .024
8525.386	284	+ 0.019
8556.289	314	+ 0.024
8557.289	315	- 0.016
8588.206	345	- 0.007
8605.256	361.5	+ 0.044

* Royal Observatory Bulletins, Number 64
A.W.J. Cousins and R.H.Stoy:

"Photoelectric Magnitudes and Colours of Southern Stars"

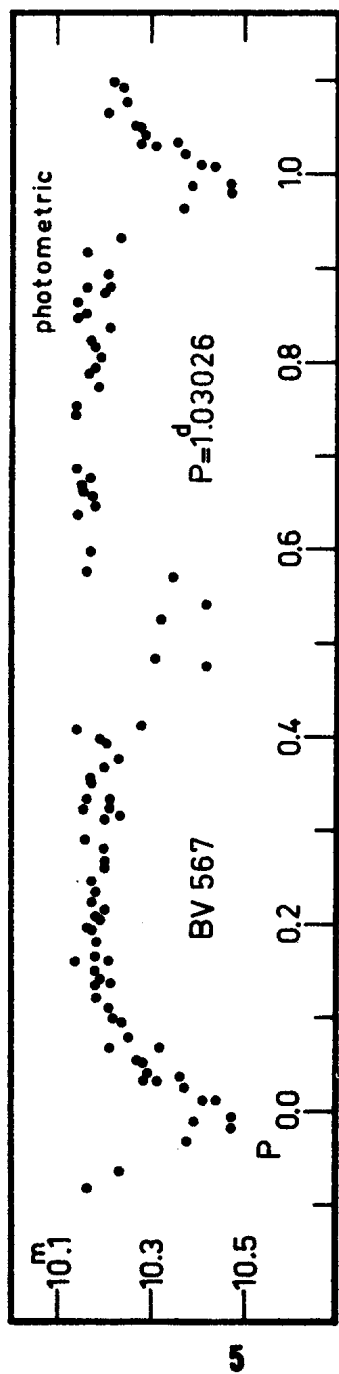


FIG.1

Photometric light-curve of BV 569 = CoD $-53^{\circ}6024(10^m_{3/4})$

(Light-curve Fig. 2)

Comparison - stars:

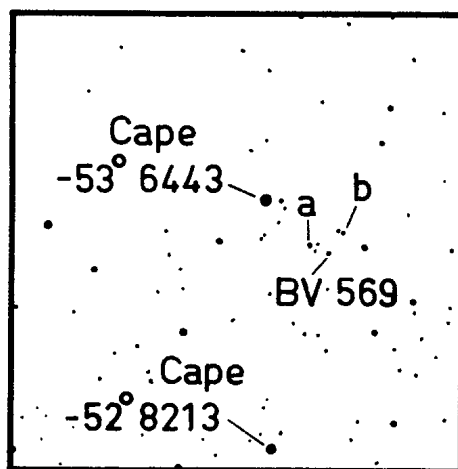
$a = 10^m_{.7}$ and $b = 11^m_{.7}$ see identification-chart added.

Magnitudes by photometric connection
to HD 129 735($9^m_{.12}$, Cousins* and
Cap $-45^{\circ}7001(10^m_{.80}$ Cousins).

Min = JD 243 8499.554 + $4^d_{.102}$. E, Ampl. $1^m_{.0}$, EA

Individual minima (fainter than $11^m_{.5}$)

Minima	E	O - C
243 8499.492	0	- $0^d_{.062}$
.537	0	- 0.049
8528.385	7	+ 0.117
8606.227	26	+ 0.021



* Royal Observatory Bulletins, Number 64
A. W. J. Cousins and R. H. Stoy:

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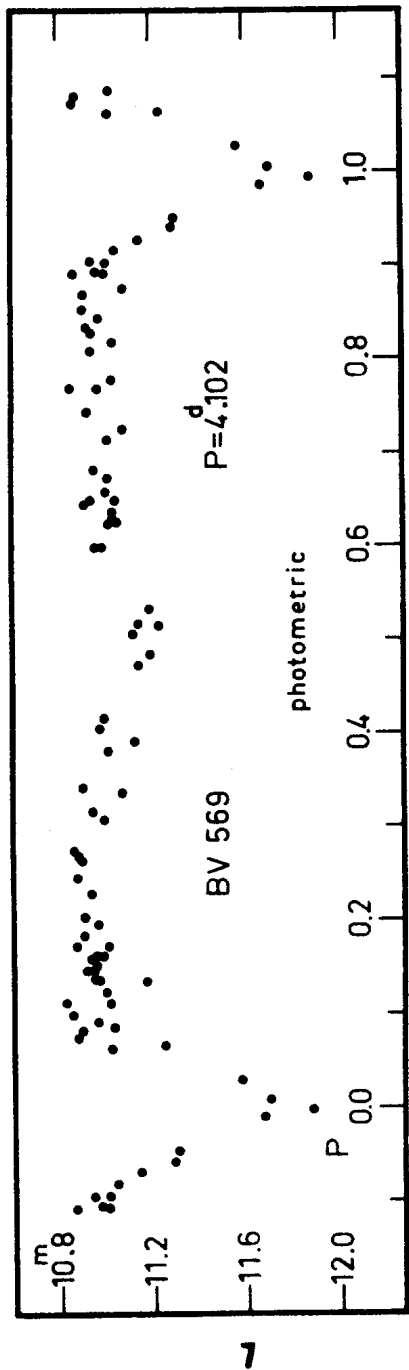


FIG. 2

Photometric light-curve of BV 577 = CoD -34° 10 981(7.^m2)
= HD 147 683(B8)

(Light-curve Fig.3)

Comparison-stars:

HD 146 745(7.^m15) F2 (derived from HD visual magnitudes

HD 147 387(7.^m70) F2 by adding 0.^m43 respectively 0.^m42
as B-V correction)

Min = JD 243 8230.080 + 13.^d101 5 . E. Ampl. 0.^m4, EA

Individual minima (fainter than 7.^m5)

Minima	E	O - C
243 8230.269	0	+ 0. ^d 189
8505.489	21	+ 0.277
8551.382	24.5	+ 0.315
8557.380	25	- 0.238
8577.295	26.5	+ 0.025
8584.296	27	+ 0.475
8590.298	27.5	- 0.073
8610.212	29	+ 0.188
8616.215	29.5	- 0.359

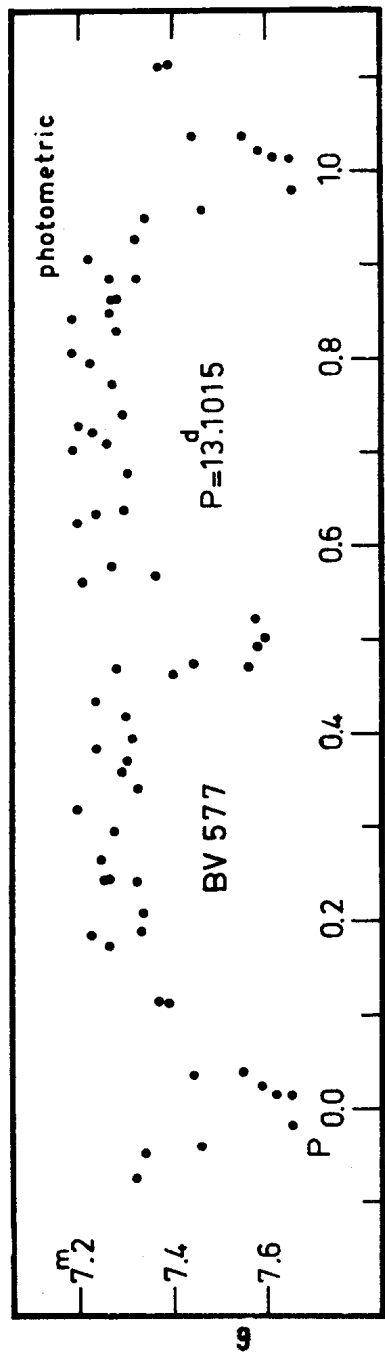


FIG. 3

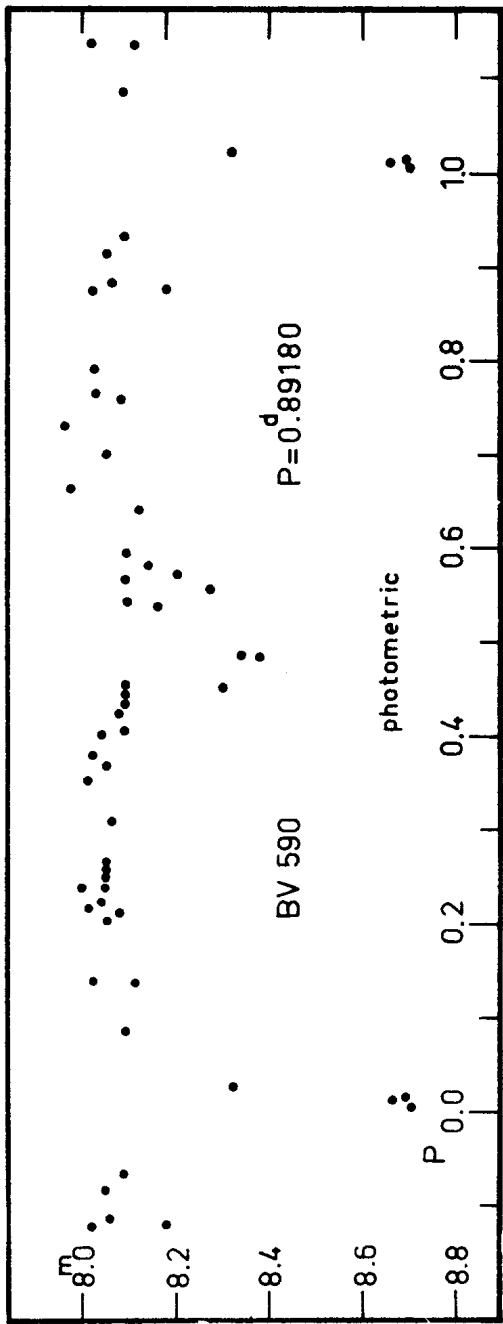


FIG. 4

Photometric light-curve of BV 590 = CoD -47°13 121(8^m.2)

= HD 187 418(A2)

(Light-curve Fig. 4)

Comparison - stars:

HD 187 652(A2) 7^m.85 (estimated)

HD 186 975(Ko) 8^m.34 (from Cousins' catalogue)

Min = JD 243 8282.255 + 0^d.891 80 . E, Ampl. 0^m.65, Ea or EB

Individual minima (fainter than 8^m.6)

Minima	E	O - C
243 8560.513	312	+ 0 ^d .016
8585.476	340	+ 0.009
8636.312	397	+ 0.012

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