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All Comparison Stars to be entered in Tables whatever the authority. Jan. 27, 1892.

S Cor.	Argl.	
	ν Cet.	
ν R Androm.	ν R Cancri	ν Cet.
ν γ Piscium	ν S Cancri	S Geminorum Sch. Cond.
ν ζ Piscium	ν R Leonis	S Hydrae Sch. Cond.
ν R Can. Min.	ν ξ Virginis	R Ursæ Maj. Sch. Cond.
ν S Can. Min.	ν R Hydræ	~~E~~
ν γ Geminor.	ν R Bootis	
ν U Geminor.	ν S Serpentis	
ν U Cancri	ν R Coronæ	
~~R Virginis~~	ν R Serpentis	
ν S Ursæ Maj.	ν Var. Cephei	
ν U Virginis	ν R Scuti	
ν V Virginis	ν R Aquilæ	
ν S Virginis	ν χ Cygni	
ν R Herculis	ν S Aquarii	
ν S Cephei	ν R Lyræ	
ν S Herculis	ν R Aquarii	
ν R Cephei		
ν R Cygni		
ν R Delphini		
ν R Cephei		
ν R Vulpeculæ		
ν γ Cygni		
R Cephei		

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1 Suspected Algol Stars.
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59 —
60 12 II 8.0
61 II 6.8
61a II 8
62 - 7.0
63 - 6.5
63a South -68°
64 - 7.7

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65 - 7.7

66 13 { IV a II 19 days.
67 { - 8.0

68 - 4.0

69 - 5.7

69a 14 - 9

69b South 59°

70 Lt 9.7

71 - 8.1

72 - 7.9

73 - 5.9

73a III? 5.2-6.1

73b Aug. 9.1

74 V Delphini. ✓

74a 15 Lt 10

74b South 66°

75 V U Coronae ✓

76 - 8.0

77 - 7.6

78 - 6.1

78a - 9

79 ill. 5.8

80 - 5.6

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Suspected Algol Stars.

	R.A.		Decl	Epoch	Magn.	
1	51	28	− 2°	40'.2	1875	6.5	
2	3	10	+ 65	50.5	1855	6.5	55 Cass.
2	27	0	+ 34	3.0	"	5.7	15 Ari.
5	28	39	− 35	13.4	1875	6.5	
7	10	44	− 20	6.6	1881	5.2	
13	19	6	+ 55	44		4	Alcor.
13	53	23	− 1	40.8	1855		Argl. thicker var.
14	1	17	− 9	38.7	1855	6.5	96 Virginis
16	1	16	− 23	21.0	1875	6.2	
21	38	3	+ 9	18.2	1875	3	ε Aquilæ
15	18	22	+ 1	18.7	1800		

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Page	Cat. No.	Name	R.A. 1855.	Dec.	Period	Max	Min	No. Obs.	Sch.	Ch.
24	2	R Andromedae	0h 16m 25s	+37° 46.4	404	6	12.8<		28	x
26	5	T Piscium	0 24 29	+13 48.0	irr	9.5	11.		22	x
28	6	α Cassiopeiae	0 32 18	+55 44.5		2	2.5	16		-
30	9	R Piscium	1 23 10	+ 2 7.9	367	7	13<		13	x
32	12	o Ceti	2 12 1	− 3 38.3	330	2	10<	1	7	x
36	16	ρ Persei	2 55 54	+38 16.5	33?	3.4	4.3		4	-
38	17	β Persei a	2 58 45	+40 23.6	2.87	2.5	4	4	5	-
42	19	λ Tauri a	3 52 39	+12 4.6	3.95	3.4	4.2	28		-
44	25	ε Aurigae	4 51 34	+43 36.2				20		-
46	30	α Orionis	5 47 19	+ 7 22.9	irr	1	15	17		-
48	36	ξ Geminorum	6 55 30	+20 46.7	10.16	3.8	4.5	19		-
50	38	R Canis Minoris	7 0 44	+10 14.9	335	7	12.3<		29	x
52	39	S Canis Minoris	7 24 51	+ 8 37.4	332	7.5	12<		14	x
54	41	S Geminorum	7 34 20	+23 47.2	294	8.3	13.5<		15	x
56	42	Π Geminorum	7 40 36	+24 5.5	228	8.5	13.5<		16	x
58	43	V Geminorum	7 46 30	+22 22.7	irr	9	13.5<		17	x
60	44	R Cancri	8 8 34	+12 10.1	354	6	11.7<	24		-
62	46	V Cancri	8 27 28	+19 23.5	306	8.5	13.5<		23	+
64	47	S Cancri a	8 35 39	+19 33.2	9.48	8	10.5	25	6	+
66	48	S Hydrae	8 46 0	+ 3 36.8	256	7.5	13.5		18	+
68	—	α Hydrae	9 27 7	− 8 1.9				18		-
70	52	R Leonis	9 39 45	+12 5.9	312	5	10	7		
72	53	R Ursae Majoris	10 34 19	+69 32.1	303	6	12		37	
74	60	T Virginis	12 7 10	− 5 13.8	337	8	13		24	-
76	63	R Virginis	12 31 9	+ 7 47.2	146	6.5	10	12		x
78	64	S Ursae Majoris	12 37 35	+61 53.3	225	7.5	11		38	
80	65	V Virginis	12 43 45	+ 6 20.6	207	7.5	12.5		26	+
82	67	V Virginis	13 20 19	− 2 25.2	251	8	13<		25	+
84	68	R Hydrae	13 21 48	−22 31.8	436 ±	4	10	3	9	

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Ch.	Σ no.	No. Stars: Arg.	Sch.	Total.	No. Obs.: Arg.	Sch.	Total.	f = fair, b = hyst.	
8	x		7	7	–	90		f	
2	x		8	8	–	27		f	
–	Σ P. 309	3		3	420	–		b	
3	x		7	7	–	28		f	
4	x	Σ P. 309 17	12	30 ?	700	97		b	f=
4	–		6	6	–	250		b	
–	–		8	8	2400	580		b	o
–	–	5		5	300	–		b	o
–	–	4		4	400	–		b	
–	–	5		5	840	–		b	
–	–	5		5	1400	–		b	
9	x		10	10	–	160			α Can Mai. 7 33 +6°
4	x		7	7	–	33			
5	x		4	4	–	16			β Geminorum 7h 37' +28°
6	x		7	7	–	60			" "
7	+		12	12	–	20			" "
		11		11	400	–		f	β Canes
3	+		5	5	–	21			ε Hydrae
6	+	6	5	7	700	220		f	ζ Hydrae
8	+		6	6	–	90			
–	–	4		4	200	–		b	
		13		13	840	–		f	α Leonis. 10h 7m +13
7			12	12	–	240		f	
4	–	–	0		–	40			
	x	12		12	1000	–		f	
8			10	10	–	240			
6	+		10	10	–	100			α Virginis 13h 19m –11°
25	+		5	5	–	15			" "
9		8	4	9	480	~~25~~ 28		f	" "

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Page		Cat. No.	Name	R.A. 1855	Dec.	Period	Max.	Min.	No. Obs.	No. Sch.	Ch.
86	–	69	S Virginis	13h 25m 26s	−6° 26.8	374	6	12		19	*
88	–	73	R Bootis	14 30 48	+27 22.1	223	6	11.5	27	30	*
90	1	77	S Serpentis	15 14 52	+14 50.3	361	8	13	14		*
92		78	S Coronae	15 15 29	+31 53.5	361	6	12			
94	–	79	R Coronae	15 42 36	+28 36.3	332	6	13	10	10	*
96	–	80	R Serpentis	15 44 1	+15 34.6	357	6	11	15	12	*
98	–	83	R Herculis	15 59 43	+18 45.9	309	8.5	13<		31	*
100	–	91	S Ophiuchi	16 25 55	−16 51.1	233	8.5	13.5		35	*
102	–	92	S Herculis	16 45 18	~~+12 39.~~ +15 11.4	303	6.3	12		32	*
			var. Ophiuchi.	16 57	−12 39.				21		
104	–	94	R Ophiuchi	16 59 27	−15 53.7	302	5	12		36	*
106	–	95	α Herculis	17 8 2	+14 33.5		3.1	3.9	9		–
108	1 –	105	R Scuti	18 39 45	−5 51.4	71	5	8.5	11	11	*
110	✓	106	β Lyrae	18 44 44	+33 11.8	12.91	3.5	4.5	6	1	–
112	–	110	R Aquilae	18 59 23	+8 0.8	345	6.5	11	26	33	*
114	–	114	R Cygni	19 32 56	+49 52.5	425	6	14		39	*
116	1 ✓	117	χ Cygni	19 45 0	+32 33.0	406	4	13	2	8	*
120	– ✓	118	η Aquilae	19 45 5	+0 38.2	7.18	3.6	4.7	5	3	–
122		120	R Capricorni	20 3 10	−14 41.6	347	9	13.5<		20	–
124		123	R Delphini	20 7 55	+8 39.1	284	7.5	13		29	*
126		126	R Cephei	20 34 37	+88 41.0	365±	5	11		40	
128		132	R Vulpeculae	20 57 56	+23 14.9	137±	7.5	13		34	*
130	–	133	T Capricorni	21 14 0	−15 46.4	267	9	14<		21	*
132	–	135	μ Cephei	21 39 4	+58 7.0		4	6	8a		–
134	– ✓	137	δ Cephei	22 23 48	+57 40.4	5.37	3.7	4.8	8	2	–
136		138	S Aquarii	22 49 20	−21 7.0	280	8	11<	29		*
138	–	139	β Pegasi	22 56 45	+27 17.8	40±	2	2.5	22		–
140	–	140	R Pegasi	22 59 22	+9 45.7	382	7	13.5	23		*
142		142	R Aquarii	23 36 19	−16 5.3	388	6	11?	13		*
144	–	143	R Cassiopeiae	23 51 4	+50 34.9	426	5	12<		41	*

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	Ch.	Em.	Number Stars Aeq.	Leh.	total	Number of Lines Aeq.	Leh.	f = faint l = light	
	*			8	8	~~420~~	160		α Virginis 13h 19m −11°
	*		6	11	11	~~700~~ 200	170	f	α Bootis 14h 10m +20
	*		4		4	840	—	f	
									α Coronae 15h 29m +27°
	*		6	12	13	700	280	f	" "
	+		12	6	13	700	100	f	
	+			12	12	—	180		
	×			7	7	—	60		
	×			9	9	—	160		
	*			6	6	—	24		
	-	21/40	5		5	1800	-	l	
	+		10	5	10	1800	~~47~~	f	
	-	= H. 39 I fr. 3.			12	3500	450	l	
	+		9	12	14	300	260	f	
	*			7	7	—	53		
	*		14	14	16	1260	180	l	f
	-			6	6	2500	320	l	
	-		-	0		—	2		
	+			7	7	—	23		
				2	2	—	20		
	+			4	4	—	23		
	*			6	6	—	24		
	-	~~E P. 313~~				3400		l	
	-	= H. 18 I fr. 4.	9	6	11		380	l	
	×		6		6	43	-	f	α Piscium 22h 51m −30°
	-		6		6	~~560~~	—	l	
	+		4		4	180	—	f	
	×		8		8	320	-	f	
	*			13	13	—	280		

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									Max.	Min.
118		T Cephei	21	7	33	+67	54.4		5.6	9.5
146	74	δ Libræ	14	53	14	−7	56.4	2d7h5m	4.9	6.1
148	75	U Coronæ	15	12	17	+32	10.8	3d10h5m	7.6	8.8
154		U Geminorum								
156		S Vulpeculæ								
158		W Virginis								

Additional Stars from Oudemans's

								Max.	Min.
160		S Piscium	1h	9m	59s	+8°	9.9	6	17
162		R Leporis	4	20	21	+19	50.2	5	12
168		R Ceti	4	51	6	+1	54.2	3	9
186		R Geminorum	6	58	38	+22	55.4	11	16
188		T Cancri	8	48	22	+20	24.0	7	7
190	50	R Hydræ	8	48	37	−8	35.4	3	10
		Ophiuchi							
		~~R Capricorni~~	~~20~~	~~3~~	~~8~~	~~−14~~	~~43~~		~~8~~
		S Capricorni	20			−19		7	11

This star is not S Capricorni, nor has its variability been yet proved. — See "Cat. of Suspected Variables".

152	82	T Coronæ	15	53	26	+26	22.1	
192	100	T Herculis	18	3	37	+30	59.9	
194	122	R Sagittæ	20	7	27	+16	17.4	
196	51	R Leonis Minoris	9	36	52	+35	10.6	
198	72	R Camelopardalis	14	28	54	+84	29.2	
206	88	U Herculis	16	19	23	+19	13.6	
208	~~64~~ 62	~~T~~ S Ursæ Majoris	12	~~29~~ 27		~~+61~~ +60	~~17~~ 17	
210	~~64~~ 63	~~S~~ T " "	12	~~37~~ 29		~~+60~~ +61	~~53~~ 53	
212	110	R Aquilæ	18	59		+8	1	
214	128	T Delphini	20	38		+15	52	
216		Sawyer's Variable	17	9		+1	21.	(U Ophiuchi)

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Sar XCIV, 175
Annals Moscow V(2) 107
A N LXXIV 342
A N LXXVI 257
N Nds XVII 200
A N LXVIII 322
A N LXXXI 161

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Note a pencil check mark ✓ against the no. of page in this book, indicates that the ~~sheet~~ observations sheets for the corresponding time have been prepared. (DLC)

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	Period	Mag.	Var.	Obs.	
R Andromedae	404	6	+6.8	90	
R Piscium	347	7	+6	28	
o Ceti	330	2	+8	797	=
R Canis Minoris	337	7	+5.3	160	"
S " "	332	7.5	+4.8	33	
S Geminorum	294	8.3	+5.3	16	
R Cancri	354	6	+5.7	400	"
U Cancri	306	8.5	+5.0	21	
S Hydrae	256	7.5	6.0	90	
R Leonis	312	5	5.0	840	-
R Ursa Majoris	303	6	6.0	240	"
T Virginis	337	8	5.0	40	
R Virginis	146	6.5	3.5	1000	-
S Ursa Majoris	225	7.5	3.5	240	"
U Virginis	207	7.5	3.0	100	
V Virginis	251	8	+5.0	15	
R Hydrae	436 ±	4	6.	588	-

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Star of Cadenamus included 6 Aug 44 72
All class of Cadenamus included except those of

	Cad.	1-9	10-12	
R Piscium	49	6	11	Sheets written 5/1/82 [illegible] should be S.
R of S Canis	52	5	7	" " " "
R Orionis	53	3	6	" " " "
R Geminorum	55	11	5	" " " "
T Canis	60	7	-	" " " "
50 S Hydrae	61	3	7	
Var. Ophiuchi	63	12	-	
~~S Capricorni~~	66	7	4	Not S Cephei.
~~S Ursae Maj~~	68	12	-	Sds R Ursae Majoris See b. 72

Nova Andromedae p. 144
Nova Aquarii p. 146

1855.
T Cephei 21 7 33 +67 54.4

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Faint Variables of special interest
Obs.

o Ceti.

χ Cygni.

R Scuti	71	5	3.5	1847
R Aquilae	345	6.5	4.5	660

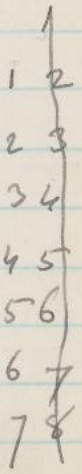
U Canis doubt

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R Andromedae

Name Alg.	Sch.	Name	R.A. 1855.	Dec.	Magn H.P.	Magn M.P.
R	R	Andromedae	$0^h\ 16^m\ 24^s$	$+37^\circ\ 46.'3$		8.01 7.04
	c		0 14 46	+37 35.3		
	b		0 15 29	+37 38.6		
	d		0 15 53	+37 46.6		
	g'		0 15 54	+36 37.1		
	g		0 18 9	+38 3.5		
	f		0 18 30	+37 32.0		
	h		0 19 27	+37 58.4		



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Sch.	Dh
Var.	var.
18.9	9.3
14.2	9.5
22.3	9.2
35.9	8.1
31.5	8.3
26.6	9.0
40.0	8.0

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See also Luther ar 42. 187

26 ✓
ar 42.187

T Piscium

Fig. Luther	Lch.	Name	R.A. 1855.	Dec.	
	T	T Piscium	0h 24m 29s	+13° 48.0′	–
h	h		0 23 10	+13 44.5	8
k	K		0 23 59	+14 3.8	9
i	i		0 24 15	+13 55.0	10
b	b		0 24 53	+13 47.8	11
	m		0 25 13	+13 57.6	12
d	d		0 25 28	+13 49.0	13
c	c		0 25 36	+13 41.8	14
e	e		0 26 0	+13 53.8	15
a			0 26 39	+13 43	16
f			0 26 37	13 52	17
g			26 17	37	18

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Sch. Dkn.
Var.
10.0
6.0
6.8
14.7
1.8
11.8
14.0
8.0

7.5

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α Cassiopeiae

Bayer	Flamsteed	Name	R.A. 1855.	Dec.	H.P.	No.	Magn.	
α		α Cassiopeiae	0 32 18.4	+55 44.5				—
β	β	β Cassiopeiae	0 1 29.6	+58 21.0	9	17	2.4	19
γ	γ	γ "	0 47 59.9	+59 55.8	142	20	2.3 D.	20
δ		δ "	1 16 23.3	+59 28.6	219	15	2.8 4)	21

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Ar. Dis. Var	Diff.	n	Dm. Var.
4.3	9.2025	5	2.2 9
7.0	9.2383	5	2.3 132
0	9.0053	3	3.0 205

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R Piscium

Name Bayf.	Cord.	Sch.	Name.	Rct. 1855.	Dec.		
	R		R Piscium	1h 23m 9s	+2° 9'.9		–
	g			1 21 3	+2 52.9		22
	f			1 21 39	+2 51.0		23
a	a			1 23 0	+2 13.3		24
b	e			1 23 44	+2 8.3		25
v	d			1 24 10	+1 49.6		26
c	c			1 24 45	+2 56.2		27
d	b			1 25 16	+2 1'.1		28
			fav.				
e				1 23 16	+2 8.7	11½	29
f				1 23 55	2 11.7	10½	30
g				1 24 9	2 15.4	10½	31
h				1 23 26	2 3.2	11	32
x (leg)				1 21 55	2 1.0	10	33
p				1 23 34	2 3.3	12	34
q				1 23 23	2 9.8	12/m	35

S Piscium according to Endymion

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Sch. Var.	Diff.
4.0	5.5
5.5	8.3
13.8	5.5
6.3	9.0
9.3	5.5
20.2	7.5
17.6	5.3

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sheets written from 40–54

0 Ceti

1855.

Hyg.	Arg.	Sch.	Name	R.A.	Dec.				
o		o	o Ceti	2h 12m 1.5	−3° 38.3	370	2	var.	—
β	β		β Ceti D.M. 306	0 36 18.6	−18 44.0	103	21	2.13	36
f		b	β Arietis D.M. 317	1 46 38.2	+20 5.8	295	15	2.79	37
2	α	a	α Piscium D.M. 306.	1 54 32.9	+ 2 3.8	320-1	12	3.99	38
e			α Arietis	1 59 0.3	+22 46.5	333	19	2.04	39
63 Ceti			63 Ceti not in D.M.	2 4 14.3	− 1 40.5	326		wrong	40
ξ'	ξ		ξ' Ceti	2 5 19.2	+ 8 7.0	326a		352	41
		n		2 6 22	−3 42.7	326½	4		42
		u		2 9 30	−3 34.8	334½			43
		c		2 12 8	−3 38.0	342½	two fl.		44
		m		2 12 24	−5 0.9	343½			45
		q		2 12 48	−4 12.0	344½			46
		s		2 14 18	−3 37.5	345½			47
			D.M. 355	14 33.5	16.5				
69 Ceti			69 Ceti D.M. 322	2 14 31.1	−0 16.2	346		375	48
γ0 Ceti			γ0 Ceti	2 14 49.4	−1 32.8	347		376	49
		t		2 16 21	−4 2.2	352½			50
		v		2 16 55	−3 54.0	353¼			51
		μ		2 17 4	−3 45.5	353½			52
γ1 Ceti	γ1		γ1 Ceti D.M. 388	2 17 38.9	−3 26.3	353¾			53
ξ''		ξ	ξ'' Ceti D.M. 388	2 17 54	−3 54.0				54
				20 2.2	+ 7 48.5	360		389	55
			D.M. 353.	146.0	40.3				
h			γ5 Ceti D.M. 418.	2 24 44.0	−1 40.7			399	56
				1.7.5	51.0				
ν		ν	ν Ceti D.M. 406.	2 28 16.1	+ 4 5.6	379		409	57
δ	δ	δ	δ Ceti D.M. 422.	2 32 3.5	− 0 18.2	388		418	58
γ	γ	γ	γ Ceti D.M. 359.	2 35 50	+ 2 3.4	401		433	59
μ	μ	μ	μ Ceti D.M. 395.	2 37 6.4	+ 9 30.0	406		437	60
λ		λ	λ Ceti D.M. 419.	2 51 5.0	+ 8 19.6	443		477	61
					31.1				
α	α	α	α Ceti D.M. 629.	2 54 42.1	+3 46.?	444		482	62
½			α Tauri D.M. 795. Aurigae	4 27 36.3	+16 12.8				63
½				4 47 33.4	+32 55.9				64
d	B		β Tauri D.M. 1328	5 17 7.3	+28 28.				65
c	B		β Aurigae	5 48 32.2?	+44 55.6				66

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Cu	Arg. Var.	Sch. Var.	Wolff Var.	Nr.	U.A.	D.M. Var.	342	G.			
										370	2 var.
	42.4				2.3		95	2.3	1r	103	21 2.13
	32.8	37.7	9.0938	10		2.5	277		12	295	15 2.79
	26.5	28.5	8.6707	1		3.5	301		9	320-1	12 3.99
	44.0		9.3146	5		2.0	310		14	333	19 2.04
	0.0				6.0		321	6.0?	7	347	8 6.08
	19.1				4.3		326	4.3	5	352	9 4.45
		84.7* ✓			—	~~7.7~~ ✓			4	353	6 5.64
		71.2* ✓			—	8. ✓			5	363	9 5.54
		64.8*			—	9.0 ✓			—	370	2 var ✓
		87.0* ✓			—	7.0 ✓			3		
		78.7* ✓			—	8. ✓			3		
		70.3* ✓			—	8.9 ✓			4		
	0.0				5.8	5.5	346		3	375	5 5.78
	0.0				5.9	5.8	347		5	376	6 5.62
		73.0* ✓			—	8.6 ✓			—		
		70.0* ✓			—	8. ✓			—		
		82.5* ✓			7.0	8.2 ✓			—		
	0.0	74.5*			6.5	6.7 ✓			—		
	20.9	20.2			4.4	4.5	360		5	389	9 4.41
	8.6				5.9	5.6	370		9	399	10 5.55
	13.0 ~~20.8~~	10.0			5.1	5.3	379		9	409	9 4.90
	20.8	24.6	8.6109	3	4.0	3.7	388		10	418	13 4.13
	28.3	30.8	8.7969	5	3.2	3.5	401		11	433	14 3.59
	19.1	19.0			4.3	4.0	404		10	437	14 4.38
	16.1 ~~35.3~~	14.5			4.8	4.8	443			477	9 4.60
	35.3	39.1	9.1908	5	2.4	2.5	448			482	11 2.68
	50.0		9.1455	3		1.1	751			797	16 1.00
	42.0?		9.4366	9		2.0	927			862	6 2.72
	40.6		9.3797	5		2.0	1042			978	15 1.90
										1100	14 2.07

*brightness in terrestrial

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	Ord.	h	m	1855 s			
	θ Ceti	1	16	48	−8	58	67
	η "	1	1	16	−10	57	68
	o Piscium	1	37 +4	44	+8	26	69
	η Eridani	2	49	20	−9	29	70
ψ	ψ Ceti	2	17.1		+9	50	(= ξ Arietis) 71
γ Pegasi	γ Pegasi	0	5	48	+14	23	72
ε "	ε "	21	37	4	+9	13	73
β Urs. maj.	β Urs. maj.						74

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220 12 3.77

183 6 3.57

---

464 6 3.95

---

23 13 3.04

3836 15 2.41

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ρ Persei

Hyg	Auth	Sch.	Name.	RA. 1855.	Dec.	
		ρ	ρ Persei	2h 55m 54s	+38° 16.5	–
α		α	α Trianguli	1 44 49.8	+28 52.5	75
b		β	β "	2 0 57.2	+34 18.0	76
κ		κ	κ Persei.			
		χ	χ Persei	2 59 44.6	+44 17.9	77
δ		δ	δ "	3 32 37.1	+47 19.6	78
		ο	ο "	3 35 16.2	+31 49.6	79
ν		ν	ν "	3 35 22.5	+42 7.6	80
ε		ε	ε "			81
ζ		ζ	ζ "			82
θ		θ	θ "			83
γ		γ	γ "			84

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Au. Ag. Var.	Sch. Var.		Jul. Var.	455	
	4.0		3.9	272	–
	8.9		3.0	313	–
	0.0		4.5	463	–
	7.8		3.5	553	–
	2.1	8.6259	3.8	562	4
	1.5		4.1	564	–

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β Persei

Name Ag. Cat. Sch.			Name	R.A. 1855.	Dec.	a.	H	Dn.	S	W	Mean
β	β	β	β Persei	2h 58m 45s	+40° 23'.8						
a	a	a	α Trianguli	1 44 49.8	+28 52.5	3.6	3.6	3.9	3.7	3.0	3.7
β Arietis	β Ar.	ℏ	β Arietis	1 46 37.5	+20 5.8	3.0	3.0	2.5	2.8	2.3	2.8
c	γ And.	c	γ Andromedae	1 55 1.7	+41 37.6	2.6	2.6	2.0	2.4	1.9	2.4
b	β Tr.	b	β Trianguli	2 0 57.2	+34 18.0	3.0	3.0	3.0	3.2	2.6	3.1
γ	γ	γ	γ Persei	~~3 35 22.5~~ 3 54 20.0	+52 56.0	3.0	3.0	3.2	3.2	2.7	3.1
ρ	ρ	ρ	ρ Persei	2 55 54.2	+38 16.8	4.	—	—	~~3.5~~	—	
δ	δ	δ	δ Persei	3 32 37.1	+47 19.6	3.0	3.4	3.5	3.2	2.7	3.3
ν		ν	ν Persei	3 35 22.5	+42 7.6	4.0	4.0	4.1	—	3.3	4.0
ε	ε	ε	ε Persei	3 48 9.1	+39 35.4	3.6	3.6	3.2	3.0	2.6	3.3
κ	κ	κ	κ	"							
ζ	ζ	ζ	ζ			3.0	3.0	3.0	3.1	2.5	3.0
	γ Tr.	γ Tr.	γ Trianguli								
		δ	δ Cas.			3.0	2.6	3.0	2.9	2.5	2.9

ε Aurigae
β Cassiopeiae
β Aurigae
γ Pegasi

ε Aurigae
β Cassiopeiae
β Aurigae
γ Pegasi
ι Aurigae

δ Persei
ο Persei

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	Cu	Ag. Var.	Sch. Var.			Sth. Var.						
85		0.7	4.0	8.8205	2	3.9	272	12	3.26	.18	289 15	3.58
86	·		16.1	9.0938	10	2.5	277	12	2.48	.20	295 15	2.79
87	·		22.1	9.2529	3	2.0	304	11	1.89	.17	324.5 14	2.14
88	·	4.2	8.9	8.9479	3	3.0	313	14	2.86	.19	336 17	3.12
89	·		10.9	8.9233	4	3.2	449	10	2.85	.11	483 13	3.11
90	·	(Blended =0.0.) Var.	Var.			Var.	455	~~11~~	~~1.89~~	~~.17~~	489 13	3.68
91	·	3.8	7.8	8.9235	6	3.5	553	11	2.90	.20	591 14	3.18
92	=		1.5	8.6666	1	4.1	564	10	3.71	.20	602 13	4.00
93	·		12.4	.9776	5	3.2	608	11	2.75	.21	649 14	3.04
94	·						463	5	16	3.69	.15	498 13 3.95
95	·						598	8	10	2.89	.19	638 13 3.10
96							334	9	10	3.85		361 13 4.15
97												219 15 2.84
98												877 7 3.18
99												9 17 2.42
100												1100 14 2.07
101												23 13 3.04
102												862 6 2.72
												429 6 4.24
												600 13 4.01

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λ Yauri

Mag.	Name Cod.	Name	R.A. 1855.	Dec.	H.P.				
λ		λ Yauri	$3^h\ 52^m\ 40^s.4$	$+12°\ 4'.9$	671	3	4.54	4.6	—
o	o	o "	3 17 1.2	+8° 30.9	550	13	3.77	3.8	103
ξ	ξ	ξ "	3 19 18.7	+9 13.7	554	13	3.77	3.8	104
ν	ν	ν "	3 55 27.2	+5 35.2	665	13	3.97	4.4	105
γ	γ	γ "	4 11 32.4	+15 17.3	737	13	3.86	4.2	106
ε	ε	ε "	4 20 8.2	+18 51.9	773	13	3.67	3.6	107
		f "	3 22 52.	+12 20.	567				
		d "	4 27 40	+9 53.	798				

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Arg. Var.	Wolff Var.	No.	D.M. Var.		
	~~8.8212~~	~~5~~	Var.	616	7
9.0	8.7672	6	3.8	513	7
4.5	8.7293	6	4.0	517	8
3.0			4.0	623	8
6.1	8.7792	6	3.8	691	3
7.8	8.8212	5	3.7	727	2

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ε Aurigae

Ag.	Name	Name	R.A. 1855.	Dec.				
ε		ε Aurigae	4ʰ 57ᵐ 34ˢ.6	+43° 36′.2				–
β		β Trianguli	2 0 55.7	+~~55~~ +34 ~~41.9~~ 18.1	336	17	3.12	108
α		ε Persei	3 48 8.0	+~~44~~ 3949° 35.2	649	14	3.04	109
ζ	ζ	ζ Aurigae	4 52 22.0	+40 57.9	879	13	3.96	110
η	η	η "	4 56 21.2	+41 2.4	896	13	3.33	111
	θ	θ		+	1104	6	2.67	112
	ι	ι		+	862	6	2.72	113

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Ou. Ag. Var.	Wolff No. Var.	Ill. Var.	830	
—	8.9479 3	~~830~~	313	14
—	8.9776 5	~~313~~	608	9
—	8.7029 6	~~608~~	832	3
—	8.8572 8		848	3

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α Orionis

Name Ag.	Name Ord.	Name	R.A. 1855.	Dec.	
α		Betelgeuse	5 47 19.4	+ 7 22.5	—
d	d	Aldebaran	4 27 36.3	+16 12.8	114
a	a	Capella	5 5 59.0	+45 50.7	115
β	b	Rigel	5 7 34.2	− 8 22.7	116
c	b	Procyon	7 31 42.5	+5 35.6	117
e	c	Pollux	7 36 26.2	+28 22.3	118

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Arg. Var.	Wolff. no. Var.	D.M. Var. 1033
2.2	9.7455 B	752
9.1	9.9490 2	883
5.9	0.0508 2	887
5.5	9.8548 B	1361
0	9.6171 B	1377

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ζ Geminorum

Arg.	Name Cat.		Name	R.A. 1855.	Dec.	H.P.				
ζ		ζ	ζ Geminorum	6h 55m 31.s6	+20° 46.'5	1334	17	4.00	4.1	—
ν	ν	ν	ν Geminorum	6 20 22.2	+20 18.2	1215	13	3.98	4.3	119
ξ		ξ	"	6 37 9.6	+13 2.7	1272	13	3.36	4.1	120
λ	λ	λ	"	7 9 46.1	+16 47.7	1373	11	3.58	3.7	121
δ	δ	δ	"	7 11 27.8	+22 14.9	1377	11	3.65	3.8	122
υ	υ	υ		7 26 58.3	+27 12.7	1430	8	4.18	4.4	123
	ι	ι				1394	6	4.03	4.4	124

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	Ay. Sch. Var.	Wolff. Var.	No.	DM. Var. 1261		
19	2.0	8.5499	9	4.3	1152	9
20	9.3	8.8131	7	3.7	1205	10
21	8.1	8.6842	3	4.1	1300	8
22	9.6	8.7289	12	3.5	1304	8
23	4.9	8.5753	9	4.2	1351	8
24						

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50 ✓

R Canis Minoris

Mag.	Name. Cod.	Sch.	Name	R.A. 1855.	Dec. 1.6 3'	
	R		R Canis Minoris	7h 0m 44s	+10° 15.0	–
f	f			6 59 8	+10 6.0	125
	h			6 59 49	+10 13.0	126
	K			7 0 29	+11 8.9	127
4½	b		D.M.	7 0 32	+10 32.2	128
e	e			7 0 58	+10 16.3	129
d	d			7 1 1	+9 56.7	130
e	e		D.M.	7 1 7	+10 24.7	131
a	a		D.M.	7 1 15	+10 22.1	132
	i			7 1 55	+9 32.3	133
	g			7 2 53	+9 36.6	134
g				1 2	10 23	135

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Sch. Var.	D.M. Var.
17.3	8.4
9.6	9.0
25.4	7.5
5.9	9.0
14.0	8.3
9.9	8.9
6.8	9.0
3.3	9.3
31.9	7.4
20.0	8.0

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S Canis Minoris

Mg.	Sch.	Name	R.A. 1855.	Dec.	1.m6	4'	
S	S	Canis Minoris	7h 24m 51s	+8° 37' 5"			
f			7 21 45	+8 8.2			136
e			7 22 38	+8 0.8			137
g			7 23 3	+8 51.2			138
c			7 23 46	+8 25.2			139
m			7 24 53	+8 57.8			140
b	D.M.		7 26 6	+8 32.8			141
d			7 27 28	+8 50.2			142

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Sch. Var.	D.M. Var.
29.5	8.0
25.1	8.0
32.6	7.8
11.3	8.8
15.5	8.5
8.0	9.0
19.5	8.2

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S Geminorum.

Mg.	Cod.	Sch.	Name	R.A. 1855.	Dec.	1.8 4'	
			Name				
S			S Geminorum	7h 34m 20s	+23° 47'3		
n				7 33 14	+23 23.0		143
m			D.M.	7 34 5	+23 48.3		144
l			D.M.	7 34 16	+23 47.0		145
g				7 34 38	+23 45.3		146
a				7 35 48	23 40	7	147
b				7 33 25	23 16	8	148
c				7 34 21	23 37	9	149
d				7 34 24	23 53	9	150
e				7 32 56	23 25	8	151
f	5 fm			7 33 56	23 13	9½	152
g				7 34 34	23 45	10	153
h				7 34 47	23 51	11½	154
i				7 35 1	23 46	11½	155
k				7 35 14	23 44	11½	156
l				7 34 16	23 47	12	157

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Sch. Var.	Dnl. Var.
15	8.8
4	.
0	.
10	9.5
	7.0
	7.8
	8.3
	8.5
	8.5
	9.5

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1869phae.proj.1717.

T Geminorum

Name Alg.	Sch.	Name.	R.A. 1855.	Dec.	1.8 4'	
	T	T Geminorum	7h 40m 36s	+24° 5.5		
k	K		7 37 58	+24 10.4		158
d	d		7 38 54	+24 8.0		159
c	c		7 39 59	+24 25.9		160
e	e	D.M.	7 40 44	+24 0.3		161
	l		7 40 52	+24 3.6		162
i	i		7 41 9	+24 22.3		163
h	h		7 42 2	+24 8.7		164
a			7 38 26	+24 0.8		165
b			7 38 30	+24 3.4		166
f			7 41 5	+24 0	11	167
g			7 40 25	+24 8	11	164

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Sch. Var.	Bud.	D.M. Var.
21.1	9	8.6
15.2	9½	9.1
20.0	9	8.6
4.0	10	—
29.9	—	8.0
10.5	—	9.1
25.0	8½	8.2
	8	7.8
	9	8.7
	11	
	11	

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58 ✓ Struve +3".56 / 48 −0.15

Minnaert

V Geminorum

Name Argy.	Schj	Pogson	Name	R.A. 1855.	Dec.	1.8 4.1	
Minnaert ↓	v	V Geminorum		7h 46m 30s	+22° 22.7		–
	r			7 45 40	+22 57.5		169
	q			7 45 48	+22 56.1		170
a	a			7 46 30	+22 24.3		171
f	f	f		7 46 31	+22 28.2		c 584 = 172
b	b			7 46 36	+22 21.3		173
e	e			7 46 37	+22 26.5		174
d	d	g		7 46 48	+22 22.9		c = 587 175
m	m	b		7 47 48	+22 13.4		c 588 = 176
o	o	e		7 47 56	+22 15.6		c 589 = 177
n	n			7 48 43	+22 5.9		178
k	K			7 50 34	+22 18.3		179
l	l			7 50 52	+22 10.1		180
	p			?	?		180a
c				7 45 49	+22 25.8		181 b
g				7 46 37	+22 18		181 c
h				7 51 3	+22 11.		181 d
i				7 44 43	+22 39		181 e
		d		7 45 23	+22 37		c 582
		e		7 46 1	+22 13		c 583
(Schönfeld e / Minnaert e)		h		7 46 34	+22 27		c 585
		a		7 46 34	+22 3		c 586

See This Book p. 154 – Pogson's Stars (c582–c589), reduced to (1855), identified and and here inserted.

Place of U from 2 meridian circles by Minnaert (1860.0) 7 46 49.56 +22 21 58.1 as U, 180

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Arg.	Sch. Var.	Wis. Var.	Payne	D.M. Var.
	28.5	~~12.6~~		—
	32.4			8.9
		12.6		—
	21.0	10.9		—
		12.2		—
		11.3		—
		11.4		—
	36.1	9.3		9.3
	36.5	9.2		8.7
	35.2	9.4		9.2
	27.2	10.		9.5
	26.0	10.		9.5
	40.5			—
		11.7		—
		10.7		—
		10.3		—
		10.		—
			10.3	—
			11.0	—
			12.4	—
			8.8	8.2

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1869phae.proj.1717.

R Cancri

Ag.	Name	R.A. 1855.	Dec. 1.7 5'	
	D.M. 1803.			
R	R Cancri	8h 8m 34.0s	+12° 10.1'	
K	D.M. 1831	8 0 36.8	+14 4.1	182
l	" 1746	8 3 22.5	+10 16.2	183
g	" 1787	8 5 37.9	+11 17.4	184
h	" 1868	8 6 17.0	+13 30.0	185
c	" 1801	8 7 49.5	+12 34.8	186
f	" 1800	8 8 35.0	+11 29.5	187
a	" 1804	8 8 37.1	+12 34.5	188
b	" 1806	8 9 6.1	+12 27.8	189
ε	" 1806	8 9 8.8	+11 47.5	190
d	" 1812	8 10 10.3	+12 6.2	191
i	" 1912	8 18 43.6	+13 7.3	192

??

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Aug. Var.	Dil. Var.
36.5	6.5
31.5	6.5
24.1	7.3
29.0	7.2
2.0	9.5
20.8	7.8
6.9	9.0
5.0	9.2
17.5	8.2
13.7	8.5
7=31.5	5.8

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1869phae.proj.1717.

62 ✓

V Cancri

Name Mg.	Sch.	Name.	R.A. 1855.	Dec.	
V	V Cancri	$8^h\ 27^m\ 28^s$	$+19^\circ\ 23'.5$		
b		8 26 16	+ 19 25.6		193
n		8 27 24	+ 19 16.6		194
m		8 27 28	+ 19 10.2		195
a		8 27 45	+ 19 8.7		196
c		8 28 15	+ 19 21.1		197

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Sch. Var.	D.M. Var.
18.3	9.5
6.0	—
10.0	—
13.0	—
20.1	9.5

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1869phae.proj.1717.

S Cancri

δ Cancri comp. star.
Comp. with ε

Mag.	Const.	Sch.	Name	R.A. 1855.	Dec.	
S		S	S Cancri	8h 35m 38.5s	+19° 33.2	
d	d		D.M. 2084	8 33 53.7	+19 26.6	198
f	*	f	" 2086	8 34 28.0	+19 22.7	199
b	b	b	" 2088	8 34 30.3	+19 35.6	200
e	e	e	" 2089	8 35 31.1	+19 19.4	201
		g	" 2092	8 36 28.2	+19 56.5	202
c			" 2095	8 37 14.8	+19 20.6	203
a	a		" 2097	8 37 29.0	+19 34.3	204a
	f			8 37 4.	+19 24.0	204b

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Ay. Var.	Sch. Var.	Rud.	Dk. Var.
16.0		δ	8.0
0.	1.3		9.5
7.0	10.0	9	9.0
3.7	5.8	10	9.4
	14.3		9.1
?			7.2
14.5		δ-δ½	8.2
		δ½	δ.r

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1869phae.proj.1717.

S Hydrae

Mag.	Name Cod.	Sch.	Name	R.A. 1855.	Dec.	
	S		S Hydrae	8h 46m 0s	+3° 36.8	
	e		D.M.	8 40 27	+3 1.4	205
d	b			8 44 24	+3 33.9	206
e	a			8 45 19	+3 34.8	207
	f		D.M.	8 46 21	+2 22.3	208
c	c		D.M.	8 46 48	+3 40.3	209
b	d		D.M.	8 47 38	+3 10.7	210
a				8 49 43	+3 5.1	211
f				8 40 26	+3 44	212
g				8 45 23	+3 57	213
h				44 43	+3 28	214
k				44 54	3 27	215
l				45 36	3 36	216
m				45 43	3 42	217

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1869phae.proj.1717.

Sch. Var.	Aud.	D.M. Var.
27.3		8.0
9.3	9	8.8
7.0	9	9.0
33.0		7.8
14.3	9	8.7
20.0	8	8.1
	7	7.3
	9½	9½
	9½	9½
	10	10
	11	11
	10½	10½
	11	11

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1869phae.proj.1717.

α Hydrae

Alg.	Name	R.A. 1855.	Dec.			
	Name					
α	α Hydrae	9h 20m 27.s6	−8° 1.′9	1.698	15	2.02
ν	ν Crucis	5 17 21.4	+6 12.9	979	14	1.86
b	β Canis Maj.	6 16 19	−17 53.1	1202	15	2.01
δ	δ Leonis	11 6 23	+21 19.2	1949	11	2.75
β	β "	11 41 40	+15 23.0	2025	14	2.23
α Coronae	α Coronae			2594	13	2.37
γ Virginis	γ Virginis			2155 2156	7	2.84
α Leonis	α Leonis			1797	15	1.42

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1869phae.proj.1717.

Arg. Var.	Wolff Var.	No.	Grth. Var.
?	9.5257	2	1598
?			928
?	9.0441		1140
?	~~9.2057~~	10	1841
?	9.2057	10	1912

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1869phae.proj.1717.

70 ✓

R Lewis

Mg.	Name (Wolfond)	Name (Chandler)	Name		R.A. 1855.	Dec.	DM		
					h m s	° ′ ″	s	′	
R			R Lewis		9 39 45.5	+ 12 5.9	45.4	5.8	
ξ			ξ "		9 24 9.3	+ 11 56.4	8.0	55.7	218
2	a	k	18 "		9 ~~29 22~~ 38 34.3	+ ~~17 5.2~~ 12 29.2	2.6	6.3	219
h		a	-	2093	9 39 27.0	+ 12 5.6	27.0	5.6	220
g		b	-	2094	9 39 32.9	+ 12 2.9	32.9	2.9	221
b	b	i	- 19 "		9 39 38.0	+ 12 14.3	38.9	15.0	222
c		g	-	2102	9 39 42.1	+ 11 30.5	42.1	30.5	223
K			W. 896		9 41 1.9	+ ~~13 28.1~~ 13 11.6	s 1.8	′ 11.3	224
f		m	W. 903		9 41 12.3	+ ~~13 2.5~~ 12 46.0	9.8	17.6	225
d	d	f	W. 914		9 42 5.2	+ ~~12 3.4~~ 11 47.0	6.7	10.9	226
e	e	h	21 Lewis		9 43 1.1	+ 12 31.6 50.7	1.9	30.7	227
i			W. 937		9 43 11.0	+ 14 1.0 13 44.5			228
V			V Lewis		9 50 25.2	+ 13 8.1	26.9	7.2	229
A			31 "		9 60 12.4	+ 10 42.4	12.3	43.4	230 a
	e				9 38 58.3	+ 12 29.8			230 b
	d				40 24.0	+ 12 26.3			230 c
	c				40 33.5	+ 11 58.6			230 d

Names obtd from my list but not Schoves Rec

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1869phae.proj.1717.

Aug.	Hl.			D.M.	Misc.
Vac.	1752			Vac.	
30.4	1711	6	5.20	5.3	
25.5	1749	3	6.10	6.3	
3.0	—			9.4	
0	—			9.5	
19.7	—			7.0	
11.0	—			7.8	
?	—			8.8	9 W.
7.4	—			8.5	9 W.
12.0	—			7.8 6.3	9 W.
16.1	—			6.5	
18.4	—			6.5	8 W.
27.4	1775	3	5.30	5.5	
33.5	1795	3	4.60	5.0	
				9.2	
				9.5	
				9.3	

a
b
c
d

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1969phae.proj.1717.

R Ursae Majoris

Name Author	Sch.	Name	R.A. 1855.	Dec.	DM 1855 R.A.		
Chandler	R	R Ursae Majoris	$10^h\ 34^m\ 19^s$	$+69°\ 32'.1$	$34^m\ 19^s$	32.1	
	f	D.M.	9 53 52	+67 58.7	$53^m\ 51^s$	58.9	231
	m	D.M.	9 58 11	+69 22.3	$58^m\ 4^s$	23.0	232
	a		10	+69			233
h	e	d	69.577	10 24 11	+69 27.2	$24^m\ 11^s$	27.1	234
e	a	c		10 32 5	+69 21.6	$32^m\ 5^s$	22.4	235
f	m	L	D.M 70.622	10 32 16	+70 16.8	$32^m\ 17^s$	16.0	236
		g	D.M.	10 37 47	+66 22.8	$37^m\ 49^s$	21.5	237
		K		10 37 58	+66 13.3	$37^m\ 58^s$	12.7	238
		h		10 39 4	+65 53.7	$39^m\ 6^s$	53.7	239
	f	b		10 46 34	+69 21.2	$46^m\ 31^s$	20.4	240
		é		10 48 46	+70 35.2	$48^m\ 46^s$	35.2	241
	h	e	D.M.	10 49 1	+70 45.8	$49^m\ 4^s$	46.4	242
a	b		" 69.585	10 32 20	+69° 17.4			243
	c			10 34 43	68 57.2			244
	d ※			10 34 22	69 53.2			245
	g			10 25 26	69 41.1			246
	i			10 9 26	69 44.5			247
	k ※			10 10 58	69 39.0			248
	b			10 53 39	70 58.8			249a
g			Dm 69.579	10 25 27	69 40.1			249b
d ※			" 69 588	10 34 52	69 2.3			249c
b				10 37 19	69 23.4			249d
c			——	10 31 15	69 22			249e

※ I think it very probable that Dreyer's d is the same as mine, but that his R.A. is too small by 30^{sec}.; The D.m. has no star in the place given by him. (see)

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1869phae.proj.1717.

Chem.	Sch. Var.	Ord.	D.H. Var.
	26.2		6.8
	23.0		7.0
	5.0		—
15.0	20.3	7½	7.7
10.4	16.3	8	8.3
10.9	14.2	8	8.3
	28.1		7.9
	23.5		7.8
	35.2		6.5
	9.5	9	8.6
	19.5	8	7.8
	25.4	7½	7.1
2.7		9½	9.3
		9	—
		9	—
		7½	7.9
		7½	7.7
		7½	7.5
		6	6.3
13.6			7.9
3.7			9.4
1.2			9.5
0.0			—

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1869phae.proj.1717.

T Virginis

Name.	Sch.	Name	R.A. 1855.	Dec.
T	T Virginis		$12^h 6.9^m$	$-5^\circ 18'$

(no comparison stars)

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Sch.
Var.

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R Virginis

Name Fig.	Name q° 2561 Bode	RA. 1855.0	Dec	D.M.		
		$12^h\ 31^m\ 8^s$	$+7^\circ\ 48'$	$9^s.0$	$47'.7$	
K	R Virginis	12 ~~23~~ ~~59.8~~	+ 7 48			
f	W. 398 ✓	12 23 59.8	+ 8 ~~44.3~~ 2	59.5	23.7	250
i	W. 430 ✓	12 26 3.5	+ ~~7~~ 8 44.9	3.5	44.9	251
K	W. 432 ✓	12 26 11.8	+ 8 ~~48.6~~ 2	~~3.5~~ 12.8	~~44.9~~ 28.4	252
e	LL. 23503 ✓	12 27 7.9	+ 8 32.3	8.9	31.6	253
h	W. 496 ✓	12 29 58.2	+ 7 ~~59.7~~ 3	57.6	39.1	254
u	D.M. 2560 ✓	12 30 34.6	+ 7 58.1 ✓	34.6	58.1	255
g	D.M. 2562 ✓	12 32 19.7	+ 7 52.2 ✓	19.7	52.2	256
m	D.M. 2564 ✓	12 32 31.0	+ 7 56.6 ✓	31.0	56.6	257
a	W. 551 ✓	12 33 17.9	+ 8 ~~9.7~~ 2	14.1	30.3.	258
d	31 d' Virginis ✓	12 34 36.3	+ 7 36.2.	36.8	36.2	259
b	W. 582 ✓	12 34 55.5	+ ~~7~~ 8 ~~16.1~~ 50.2	56.2	50.8	260.
c	LL. 23738 ✓	12 36 16.9	+ 8 21.5	28.0	21.7 *	261

* Markel 8.3 mag.
D.M. P. 178

Names checked from BB VII ; places not checked by me except for D.M. stars (Sc.)

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1869phae.proj.1717.

Aug. Var.	Dk. Var.	Misc.
32.7	6.5	9 W.
20.8	7.5	7.8 W.
24.7	7.1	9 W.
26.8	7.1	6.5 IL.
10.3	9.1	9 W.
5.2	9.5	
8.0	9.3	
4.2	9.5	
16.0	8.5	9 W.
	6.0	
17.0	8.0	8 W.
14.4	8.5	8 IL.

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S Ursae Majoris.

Name Fig.	Lth.	Name	R.A. 1855.	Dec.	
S		S Ursae Majoris	12h 37m 35s	+61° 53.3	
e			12 16 42	+61 42.5	262
f			12 20 49	+61 57.3	263
h			12 32 43	+60 32.7	264
g			12 33 52	+60 19.3	265
l			12 34 25	+61 36.6	266
m			12 35 39	+61 40.7	267
n			12 38 14	+61 16.8	268
o			12 39 45	+61 55.8	269
K			12 42 2	+62 38.5	270
d			12 42 11	+61 36.7	271

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Sch. Var.	DM. Var.
26.4	7.2
22.3	7.0
17.4	8.3
21.7	8.2
12.4	8.5
9.7	9.2
7.8	9.2
4.8	9.5
15.1	8.3
27.3	7.8

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1869phae.proj.1717.

V Virginis

Mg.	Sch.	Name	R.A. 1855.	Dec.	
		Name			
V		V Virginis	12h 43m 44s	+6° 20.5	
r			12 43 28	+6 11.5	272
n			12 43 35	+6 19.1	273
m	Dm.		12 43 36	+5 56.4	274
a			12 43 53	+6 13.3	275
p			12 44 7	+6 20.8	276
b	Dm.		12 44 27	+6 8.7	277
q			12 44 31	+6 18.9	278
e	Dm.		12 46 37	+7 32.9	279
d	Dm.		12 46 58	+6 58.2	280
c	Dm.		12 47 5	+6 19.7	281
f	Dm.		12 47 54	+6 5.2	282

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1869phae.proj.1717.

Sch. Var.	D.M. Var.
6.4	—
17.7	—
23.5	9.4
18.2	9.5
15.0	—
25.7	9.0
11.0	—
38.7	8.2
33.5	8.7
29.0	8.4
	8.0

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1869phae.proj.1717.

82 ✓

V Virginis

Name Obj.	Sch.	Name	R.A. 1855.	Dec.	
V		V Virginis	$13^h 20^m 17^s$	$-2° 23.3'$	
	c		13 18 5	−2 38	283
	a		13 20 9	−2 43	284
	b		13 21 4	−2 53	285
	d		13 22 6	−2 18	286
	c		13 23 0	−2 28	287

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Sch.
Vor.
19.6
5.0
7.2
13.2
11.2

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R Hydrae

Name Alg.	Sch.	Name	Ent No.	R.A. 1855.	Dec.		
R	R	R Hydrae	~~2485~~	$13^h 21^m 48^s$	$-22° 31'.8$		
ψ (6)	ψ	ψ Hydrae		13 1 15	-22 20.5	5.0 ✓	288
d (4)		55 Virginis		13 6 25.9	-19 10.0	6.2	289
c (3)		57 "		13 8 8.6	-19 11.8	6.1	290
f (5)	f	61 "		13 10 50	-17 30.1	5.0 ✓	291
γ (7)	γ	γ Hydrae		13 11 3	-22 24.3	3 ✓	292
b (2)		PXIII.86		13 20 19.8	-21 38.7	7.7	293
k	k	γ3 Virginis		13 24 14	-17 58.7		294
π (8)		π Hydrae		13 58 7.5	-25 58.9		295
a *(1)		348 Bode-Hydrae		12 56 0*	-19 48.5	6.1	296

* Bode's place red. to 1855 is 12 56 7.5 -19 47.6 ; Star is Zy. 24275 and in Uran. which gives for 1855 12 56 0. -19 48.5 which I have entered above (S C C)

names added by BB VII, but not the places.

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1869phae.proj.1717.

Ag. Sch

Misc.

2275 —
2222 5.13
2236 5.76
2240 5.41
2247 4.82
2249 3.35
—
2282 5.98
2378 3.51
2210 5.56

8 P.

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1869phae.proj.1717.

S Virginis

Name Arg.	Ord.	Sch.	Name	R.A. 1855.	Dec.	
	S		S Virginis	13h 25m 16s	-6° 26.8	
k	κ	72	"	13 22 52	-5 43.3	297
	f			13 24 18	-6 50.6	298
e	e			13 24 46	-6 41.5	299
a	a	77	Virginis	13 25 50	-6 52.6	300
b	b			13 26 44	-7 52.4	301
d	d			13 27 32	-6 13.4	302
c	c			13 28 13	-5 24.8	303
	m	81	Virginis	13 30 0	-7 7.9	304
†				13 24 52	-6 35	305
g				13 24 28	-6 5	306
h				13 26 16	-6 34	307

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Sch.
Var.
32.5
3.6
6.3
?
20.0
10.6
15.5
?

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R Bootis

Name Arg. Chandler	Sch.	Name D.M. 2400.	R.A. 1855.	Dec.	
R	R	R Bootis	14h 30m 48s	+27° 22.0	
e	e	D.M. 2396	14 29 39	+27 2.5	308
h	h	" 2398	14 29 59	+27 21.1	309
a b	a	" 2348	14 30 2	+28 7.1	310
	K	" 2399	14 30 36	+27 22.1	311
	l		14 31 0	+27 23.5	312
	m		14 31 9	+27 27.5	313
g	g	" 2401	14 32 2	+27 0.2	314 a
f	f	" 2403	14 32 46	+27 1.9	314 b
d d	d	" 2404	14 32 57	+27 26.1	315
b n	b	" 2592	14 35 25	+26 36.1	316
c	c	" 2598	14 40 4	+26 33.5	317
~~f~~	~~f~~	~~" 2403~~	~~14 42 46~~	~~+27 1.9~~	~~318 a~~ ~~318~~
e			14 30 36.2	+28 28.1	318 b

The exact position of f is the one given by Schönfeld

Schonfeld's f and Arg's f both included in sheets for observations.

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Ag. Var.	Sch. Var.	Chandler	D.M. Var.
7.7	38.6		8.3
~~20.1~~	23.2		9.6
20.1	56.6	20.1	7.0
	19.7		9.5
	15.1		—
	10.0		—
	28.4		9.3
5.0	34.5		8.5
10.5	42.1	10.5	8.2
13.4	49.6	11.1	7.9
11.0	46.1		8.2
~~5.0~~	~~34.5~~		
		11.9	8.4

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90 ✓

S Serpentis.

Magn.	Name	R.A. 1855.	Dec.	
S	S Serpentis	15h 14m 52.s3	+14° 50′.3	
b	LL. 27973	15 13 14.2	+15 5.2	319
d	D.M. 2862	15 14 17.1	+14 41.8	320
a	LL. 28070	15 16 33.0	+14 33.9	321
c	LL. 28104	15 17 ~~24.4~~ 33.1	+14 36.3	322

Name checked from Arg., but not Peters (SCC)

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1869phae.proj.1717.

Aug. Var.	Ill. Var.	Misc. Var.
12.4	7.3	7.5 LL.
1.9	9.3	
8.8	7.9	8 LL.
5.8	8.5	8.5 LL.

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S Coronae

(not Schmid.)

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R Coronae.

Obj.	Name Sch.	Name =P 185	R.A. 1855. h m s	Dec. ° ′ ″	
K	K	K Coronae	15 42 36	+ 28 36.3	
o	o	"	15 14 8.8	+ 30 8.7	323
a	a	W_2. 717	15 30 57.0	+ 30 28.4	324
c	c	W_2. 971	15 39 10.4	+ 28 55.4	325
d	d'	D.M. 2473	15 41 18.3	+ 28 43.5	326
	d"		15 41 21	+ 28 45.6	327
b	b	W_2. 1035	15 41 44	+ 28 54.9	328
	e		15 42 25	+ 28 51.5	329
	f		15 42 34	+ 28 43.9	330
	g		15 43 4	+ 29 5.0	331
h	h	W_2. 1073	15 43 17	+ 29 0.8	332
	n		15 46 4	+ 28 2.1	333
	p		15 46 20	+ 28 32.5	334
	m		15 47 10	+ 28 14.8	335 a
(*)		W_2 1022	15 41 10	+ 27 40.5	335 b

* One of Pigott's Comp^{n} Stars not employed by Arg. or Schön

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1869phae.proj.1717.

Aq. Var.	Sch. Var.	D.M. Var.	Misc. Var.
		6.0	
53.6		6.5	JW.
38.9		7.9	8.9 W.
19.0		9.2	
20.7			
45.7		7.5	8 W.
15.3			
10.0			
23.4			
25.6		9.0	
29.5			
28.3		8.9	
34.7		8.2	
		8.2	

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1869phae.proj.1717.

R Serpentis

Name Sig.	Sch.	Name	D.M. No.	R.A. 1855	Dec.	D.M		
R	R	R Serpentis	2918	15h 44m 0.8	+15° 34.7	0.8	34.7	
h	same	29 "		15 39 43.8	+15 58.9	~~44.0~~	~~59.1~~	336
	d'			15 39 44	+15 59.1	44.0	59.1	337
v		v "		15 40 33.4	+14 33.8			338
f		W_2 1023		15 41 18.2	+15 51.0	33.0	51.3	339
l		LL. 28797		15 41 27.7	+14 14.6			340
K			2917	15 42 34.8	+15 33.2			341
g	~~g~~	W_2 1146.7		15 ~~44 32~~ (46 14)	+16 ~~35.1~~ (22.6)	~~14.3~~	~~22.3~~	342
	g			15 44 49	+14 21.0			343
c	c	LL. 28910		15 45 21	+15 39.7			344
d	d	" 28929		15 46 17	+15 52.5			345
e	e	" 28950		15 46 58	+ ~~15~~ (16) 30.6			346
a		" 29002		15 48 35.3	+15 2.1			347
b	~~b~~	W_2 1097 = Σ Su. 1978		15 ~~49 34~~ (44 12.3)	+ ~~15 10.5~~ (7.0)	12.3	7.2	348
φ		φ Serpentis		15 50 33.5	+14 49.9			349 a
	g			15 44 32	+16 35.1			349 b
	b			15 49 34	+15 10.5			349 c

Schonfeld's g is the one erased above 15h 44m 32s +16° 35.1

" b " " " " 15h 49m 34s +15° 10.5

" e 15h 46m 58s +16° 30.6

Note – This is the correct setting of e; Decl of LL. 28950 is 16 30.6 not 15 30.6 as originally above redone in blue ink; ~~+~~ corrected on obst. sheet. (Ecc)

Should be 33 5; see D. M., & also Vienna Zone # 180 star # 30. (III Abth.; XXVIII)

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Ag. Var.	Sch. Var.	Dlt. Var.	Misc. Var.
19.2			
	38.9	7.1	
		6.0	
5		9.0	9 W.
28.6		7.0	6.5 I, I.
1		9.5	
7.8	23.0 30.0	8.8	— W.
14.8	34.2	7.8 8.0	4 I, I.
13.2	33.5	7.5	4 I, I,
23.5	44.2	7.2	6 I, I.
7.4		8.3	8.5 I, I.
9.3	26.5	9.0	9 W.
30.1		6.0	
		8.7	
		8.1	

a
b
c

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1869phae.proj.1717.

R Herculis

Name Ag.	Sch.	Name	R.A. 1855.	Dec.	
R		R Herculis	$15^h\ 59^m\ 43^s$	$+18°\ 45'\ 8$	
e		Dm.	15 58 12	+18 28.8	350
x			15 58 56	+18 39.2	351
b			15 58 58	+18 50.6	352
g		Dm.	15 59 4	+18 58.4	353
f		Dm.	15 59 12	+18 56.2	354
a			15 59 42	+18 33.2	355
c			15 59 45	+18 35.8	356
n			15 59 58	+18 37.3	357
g			16 0 10	+18 46.7	358
d		Dm.	16 0 17	+18 44.2	359
f			16 0 24	+18 32.2	360
h		Dm.	16 3 12	+18 49.4	361

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1869phae.proj.1717.

Sch. Var.	D.M. Var.
30.5	8.9
22.8	
19.6	
37.7	9.0
33.9	9.0
17.5	
21.5	
14.5	
8.0	
27.9	
11.0	
41.6	8.0

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1969phae.proj.1717.

00 ✓

S Ophiuchi.

Lyr.	Sch.	Name	R.A. 1854.	Dec.	
	S	S Ophiuchi	$16^h\ 25^m\ 33^s$	$-16^\circ\ 51'.0$	
	h		16 23 19	-16 50.0	362
	f		16 23 54	-16 46.3	363
	a		16 25 51	-16 47.8	364
	g		16 26 19	-16 39.6	365
	b		16 26 27	-16 58.2	366
	e		16 26 46	-16 41.0	367
	d		16 26 50	-16 50.5	368

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1869phae.proj.1717.

Feb.
Var.
30.7
24.0
8.0
28.0
10.0
20.5
17.2

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1869phae.proj.1717.

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S Herculis

Arg.	Seh.	Name — 1855.	R.A.	Dec.		
		Name				
S		S Herculis	$16^h 45^m 18^s$	$+15° 11'.3$		
g		D.M.	16 43 23	+15 37.9		369
d'			16 44 15	+15 5.9	15° 5'.7 Schönfeld	370
c			16 44 46	+16 5.3		371
b			16 45 19	+14 27.9		372
a		D.M.	16 45 27	+15 9.9		373
h		Hg Herculis	16 45 29	+15 13.2		374
d			16 45 39	+15 5.3		375
e			16 46 28	+15 7.7		376
f		D.M.	16 46 47	+15 39.0		377

✓

Variabilis Ophiuchi

Arg.							
v		Var. Ophiuchi	16 51 23	−12 40.0	2839		
d	20	20 "	16 41 49	−10 31.3	2821	7 4.68	378
b		L.L. 31188	17 1 50	−10 20.6	2867	3 5.64	379
c	c	L.L. 30804	16 49 27	−10 43.6			380
d	a	L.L. 30718.9	46 37	−11 32.7			381
e		L.L. 30903.4	53 0	−13 19.9			382
m		L.L. 30819	49 58	−11 51.0			383
n		W 962	16 51 8	−12 58.3			384
V	v	V Serpentis	17 12 40	−12 41.7	2897	3 4.38	385
	x						386

Note - Observations stars b, d, e, f, g, h, i, are have not entered; as the observations depend on them (except one comparison with d — [illegible])

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1869phae.proj.1717.

Sch. Var	Dm. Var.
42.2	6.8
26.8	8.9
19.4	
15.1	9.3
10.0	9.5
49.0	6.1
22.4	9.3
31.4	8.5
36.5	7.8

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1869phae.proj.1717.

R Ophiuchi

Name Ag.	Sch.	Name	R.A. 1855.	Dec.	
R	R	R Ophiuchi	16h 59m 27s	-15° 34.'5	
m			16 55 46	-15 59.0	387
c	※		16 58 47	-16 11.5	388
d			17 1 30	-16 7.4	389
e			17 1 52	-15 58.7	390
g			17 3 9	-16 18.4	391
f			17 5 57	-17 17.5	392

※ Identification of c is uncertain according to Schönf.: it may be the other star whose place (K55) is 16 58 34 — 16 14.5. (S.C.)

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1869phae.proj.1717.

Sch. Var.	Sch. mag. Var.
18.5	8.9
10.0	9
15.5	8.9
18.4	8.9
26.9	7.8
21.4	8

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α Orionis

all pages 46.

Ag.	Name	Name	R.A. 1855.	Dec.				
α		α Orionis	5h 47m 19.4s	+ 7° 22.5				
d		α Lunæ	4 27 36.3	+16 12.8	797	16	1.00	393
a		α Aurigæ	5 5 59.0	+45 50.7	932	16	0.18	394
β		β Orionis	5 7 34.2	− 8 22.7	936	15	0.32	395
c		α Canis Min.	7 31 42.5	+5 33.6	1442	15	0.46	396
e		β Geminorum	7 36 26.2	+28 22.3	1469	15	1.12	397

α Herculis.

Ag.	Name Cons.	Name	R.A. 1855.	Dec.				
α	α	α Herculis	17 8 2.2	+14 33.5	2879	9	3.22	
β		β "	16 23 59.8	+21 49.3	2774	9	2.76	398
b		ι Ophiuchi	16 47 8.6	+10 24.8	2832	6	4.41	399
a	K	κ "	16 50 48.3	+ 9 36.3	2838	6	3.37	400
δ	δ	δ Herculis	17 9 6.6	+25 1.0	2880	8	3.28	401
c	β	β Ophiuchi	17 36 19.5	+ 4 37.7	2962	9	2.90	402

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Arg. Var.	Wolff. Var.	no.	DM. Var.
2.2	9.7455	3	
9.1	9.9490	2	
5.9	0.0508	2	
5.5	9.8543	3	
0	9.6171	3	

Arg. Var.	Wolff Var.	no.	DM. Var	
7.5 ? or 5.8 ?	9.0359	10	2.5	2606
~~5.5~~ ?	8.4603	3	4.1	2661
2	8.9110	3	3.0	2666
2.8	8.9005	7	3.0	2703
	9.0430	3	3.0	2782

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R Scuti

Ag.	Name Ord.	Sch.	Name	RA 1855	Dec.	HS.			
R		R	R Scuti	18h 39m 45s	−5° 41.4	3176	3	5.51	
d	d			18 35 35	−5 39.4	—			403
m			W. 934	18 37 21.5	−5 38.8	—			404
e			P. 171	18 38 15	−6 24.0	—			405
a	a		I.I. 34857	18 39 21.7	−6 3.1	—			406
f	f		6 Aquilae = 6 Scuti, H.	18 39 28.8	−4 54.0	3154	6 ~~3~~	4.35 ~~5.78~~	407
b	b	b	I.I. 34929	18 40 54	−6 9.7	—			408
c	c	c	I.I. 34984	18 41 55	−6 4.3	—			409
K	K	K	9 Aquilae = 7 Scuti, H.	18 49 17.9	−6 1.8	3249	3	5.14	410
g	g	g	14 g "	18 55 16.3	−3 54.3	3247	3	5.49	411
h	h	h	15 h "	18 57 18.4	−4 15.4	? position 3256	3	5.59	412
	n		LL 34687	18 35 ~~20~~ 36	−8 25′	—			413 a
			LL 34569	18 32 9	−7 55.0	—			413 b
*			1 Aquilae	18 27 19	−8 20.4	3134	7	4.01	413 c
*			2 Aquilae	18 34 20	−9 11.2	3151	3	4.75	413 d
*			3 Aquilae	18 35 37	−8 24.8	3154	6	5.10	413 e

*. These are some of Pigott's & Westphal's Comp.ⁿ Stars, not entered by Args. Ord. or Schon. (CC)

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Comps. Stars for R Scuti.

1900

	R.A.	Dec.	Magn.	
Ku. P. 2K10	18h 3K.6	−7° 53′	6.06	
" 2K12	3K.1	−K 23	5.25	
" 2K13	3K.2	−5 3K	K.K2	
" 2K19	39.K	−5 37	K.3K	m
" 2K22	K0.7	−6 21	K.11	e
" 2K30	K1.K	−6 0	7.2K	a
" 2K29	K1.K	−K 51	K.52	f
R	K2.1	−5 KK	Var.	
Ku. P. 2K33	K3.3	−6 7	6.5K	b
" 2K3K	KK.3	−6 1	6.2K	c
" 2K62	51.7	−5 52	K.9K	k
" 2K7K	57.6	−3 51	5.79	g
" 2K7K	59.7	−K 11	5.K3	h

	M.							
f	4.5	4.2	4.8	4.5		4.5	0	27.7
K	4.9	5.1	5.3	5.0	5.2	5.1	+2	23.1
g	5.8	6.1	5.8	5.6	5.5	5.8	0	18.0
h	5.8	5.5	5.7	5.4	5.4	5.5	−3	19.8
c	6.2	6.2	6.3	6.1	6.2	5.8	6.1	−1 16.0
b	6.5	6.6	6.8	7.0	6.9	~~6.5~~	6.9	+4 12.9
a	7.2	7.1	7.2	7.2		7.2	0	10.2
e	8.1							3.0
m	8.4	8.4				8.4	0	2.6
d	—	8.0	8.0	7.7		7.9		4.9

a
b
c
d
e

d not observed.

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Ag. Var.	Pal. Var.	Misc. Var.
4.9		
2.6		8.9 W.
3.0		8.9 I.
10.2		y.5 I.I.
27.7		
12.9	2.6	y I.I.
16.0	10.0	y.5 I.I.
23.1	20.3	
18.0	15.9	
19.8	15.9	

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β Lyrae

Bayer	Auth.	Flamsteed	Name	D.M. No.	R.A. 1855.	Dec.				
β		β	β Lyrae	3223	18 44	44.4	+33 12.2	3193	9 3.57	3.4	
		μ	μ Herculis	2888	17 40	47.8	+27 48.0	2976	9 3.49	3.7	414
θ	θ	θ	θ	"	2982	17 51	18.2	+37 15.9	3004	6 4.00	4.1	415
ξ	ξ	ξ	ξ	"	3156	17 52	11.5	+29 16.4	3007	6 3.96	4.0	416
ο	ο	ο	ο	"	2925	18 1	54.2	+28 44.4	3048	6 3.98	4.0	417
κ		κ	κ Lyrae		3094	18 14	47.1	+36 0.1	3090	6 4.37	4.5	418
ε	ε	ε	ε'	"	3509	18 39	31.9	+39 31.3	3167-4	9 4.57	3.82 4.0	419
			ε²	"	3510	18 39	33.9	+39 27.6	3169-70	9 4.55		420
ζ	ζ	ζ	ζ'	"	3222	18 39	46.7	+37 27.7	3172	6 4.34	4.11	421
			ζ²	"	3223	18 39	48.6	+37 26.8	3173	2 5.92		422
δ	δ	δ	δ'	"	3307	18 48	39.7	+36 47.4	3207	6 5.34	—	423
			δ²	"	3319	18 49	26.8	+36 43.1	3210	9 4.53	5.3	424
γ	γ	γ	γ	"	3286	18 53	31.3	+32 29.2	3232	6 3.22	3.3	425

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Oud Var.	Arg. Var.	Lch. Var.	Wolff No	D.M.	
		13.1	8.7930 2	Var.	2979
				3.5	2793
.	8.7	{8.7 (1855) 6.9 (1856) 6.2 (1857)}	8.6394 1	3.5	2821
.	9.8	10.5	9.0248 3	4.0	2824
.	7.6	8.0	8.6891 2	3.9	2861
	2.5	0.8	8.5555 2	4.1	2901
	4.8	4.2	8.4487 1	4.3	2958
			8.4981 2	4.6	2959
.	3.2	2.5	8.5612 1	4.5	2961
			8.5023 5	5.5	2962
.	2.0	1.8		6.1	2992
			8.3283 2	4.5	2995
.	12.7	{13.8 (1855) 14.3 ('56) 15.6 ('57)}		3.2	3015

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R Aquilae

Name Hyg.	Sch.	Name	RA. 1855.	Dec.	
R	R	R Aquilae	18h 59m 23s	+8° 0.'9	
K		D.M. 3978	18 48 42.9	+6 59.7	426
k	k	DM. 3951	18 55 23	+8 10.0	427
f	f	" 3956	18 56 34	+8 5.1	428
d	d	" 3960	18 57 55	+8 15.9	429
b	b	" 3961	18 57 59	+8 0.2	430
	n	" 4014	18 58 43	+6 20.0	431
	p	" 3968	18 59 11	+8 0.4	432
	q	— ——	18 59 18	+8 6.0	433
m	m	D.M. 4023	18 59 ~~27~~ 30	+6 ~~56.7~~ 40.0	434
c	c	" 3977	19 0 12	+8 7.6	435
a	a	" 3971	19 0 26	+7 57.5	436
g	g	" 3987	19 3 58	+7 53.3	437
e	e	" 3996	19 4 15	+8 15.8	438
d'	d'	" 4004	19 5 47	+8 22.2	439

Es hat Objectiv ? Star in Lumen ca 8 m 1.5 Diam

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1869phae.proj.1717.

Arg. Var.	Sch. Var.	F.M. Var.
47.8		7.0
42.1	—	6.5
30.5	32.4	7.8
22.0	21.1	8.4
	13.1	9.0
	42.1	7.0
	5	9.5
	0	—
41.2	40.1	7.2
19.0	17.4	8.7
	10.0	9.0
35.8	36.2	7.2
28.2	28.3	8.0
22.3	24.0	8.0

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R Lyncis

Mag.	Name	Name	R.A. 1855.	Dec.	
R	R Lyncis	19h 32m 55s	+49° 52.6		
e	Dm.	19 31 14	+50 18.3		440
k	Dm.	19 34 25	+50 54.3		441
d		19 34 44	+49 52.5		442
g		19 37 20	+50 23		443
h	Dm.	19 38 40	+49 37.8		444
m	Dm.	19 39 57	+49 26.2		445
l	Dm.	19 42 33	+49 39.4		446
n		19 35 15	50 46.1		

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Sch. Var.	Dm. Var.
32.3	8.4
44.8	7.7
25.0	9.0
35.4	7.9
39.2	8.8
53.1	7.5
50.1	~~8.9~~ 8.6

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χ Cygni

Ang.	Und.	Sch.	Name	R.A. 1855	D. 1855	arg.			
χ		χ	χ Cygni	19 44 59	+32 32.9	3434	13	var	
L			B.W. 2605	19 26 2.9	+51 25.	3365 !	6	3.89	447
b	b	b	9 Cygni D.M. 3651	19 29 6	+29 8.8	3377	3	5.43	448
φ		φ	φ Cygni D.M. +29° 3684.	19 33 39	+29 49.3	3397	3	4.89	449
f	f	f	D.M. 3531	19 37 10	+32 5.1	3469 67 Bode Cygni	3	5.84	450
a	a		68 Cygni B	19 37 28.4	30° 20'	—			451
d	d	d	D.M. 3572	19 38 24.26	+33 48.9 50	72 Cygni B			452
h	h	h	17 χ Cygni D.M. 3587	19 40 55	+33 23.6	3420	3	5.04	453
e	e	e	D.M. 3568	19 41 1	+32 32.1 2	Σ 37692			454
c	c	c	D.M. 3602	19 43 19	+33 4.6	P 19h 295			455
k	k	k	D.M. 3578	19 43 29	+32 26.3	—			456
g	g	g	D.M. 3587	19 44 10	+32 54.9	P 19h 300			457
l	l	l	D.M. 3589	19 44 28	+32 16.6	—			458
m	m	m	D.M. 3600	19 45 54	+32 43.3	—			459
	n	n	D.M. 3605	19 46 30	+32 34.8	—			460
	i	i	D.M. 3634	19 50 32	+32 41.4	—			461
ψ		ψ	ψ Cygni D.M. +32° 3795	19 50 53	+32 42.0	3460	3,	4.04	462
	o	o		19 ~~44~~ 42 5	32° 12	—			463
	p	p	DM. +32° 3618	48 54	32° 44'	—			464
	q	q	DM. +31° 3765	40 38	31° 46'	—			465
	r	r	DM. +33° 3642	48 37	33° 24'	—			466

* The declination of c is 33 46 by Oltz. & Schm., but 32 45 by Lundemans, I think the latter is a misprint, and should read 33 Lundemans Zweij. Beob. p. 36, δ = 32 57 not 32 37 (5 acc)

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Arg.	Sch.	Wolff	No	D.M.
				Tar. 3208
34.4		8.7156	2	4.0 3141
20.3	33.5			5.8 3152
27.0	40.8	8.4449	1	5.3 8. 3171
17.9	29.3			6.0 3183
17.1				6.2
16.8	27.5			6.7
24.2	38.2			5.4 3194
15.9	25.7			6.5
12.7	22.5			6.9
7.5	14.2			8.2
4.0	7.2			8.5
5.5	10.3			8.0
1.1	3.7			8.9
	0.0			9.0
	18.0			7.4
32.1	40.9	8.6597	2	4.2 8.5 3234
				8.3
				7.9
				7.2
				7.2

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Z Cephei

Annals Moscow Obs.
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η Aquilae.

Ay.	Name Arch.	Sch.	Name.	R.A. 1855.	Dec.	HD				
η		η	η Aquilae	19h 45m 5s	+ 0° 38.2	3436	7	3.89	4.1	
ε		ε	ε Aquilae	18 53 3.3	+14 52.7	3231	6	4.07	4.3	467
δ		δ	δ "	19 18 11.4	+ 2 50.0	3343	14	2.46	3.8	468
ν	ν	ν	ν "	19 19 6.8	+ 0 3.2	3349	6	4.80	4.8	469
μ	μ	μ	μ "	19 27 0.5	+ 7 4.3	3368	9	4.58	5.1	470
l	ι	l	l "	19 29 14.3	− 1 35.7	3381	7	4.27	—	471
β	β	β	β	19 48 11.6	+ 6 3.0	3450	8	3.95	3.9	472
	γ		γ "			3418	6	2.77		473
	ϑ		θ "			3574	10	3.39		474

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Arg. Var.	Sch. Var.	Wolff. Var.	No.	DM. Var.	3210
6.2	5.8	8.6266	4	3.9	3014
12.9 13.3	13.5	8.8502	2	3.2	3122
-1.7	-1.6			5.0	3127
1.05 -1.4	-1.7	8.4311	1	4.8	3144
3.0 3	3.2	8.5724	1	4.2	3156
8.1 8	8.2	8.7401	16	4.0	3224

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1869phae.proj.1717.

122 ✓

R Capricorni

Hy. Name	Sch. Name	R.A. 1855.	Dec.	
	R R Capricorni	$20^h\ 3^m\ 11^s$	$-14°\ 41.8$	
	(no comp. stars)			
a		20 2 32	−14 37	475
b		2 41	−14 44.6	476
c		2 10	−14 42.0	477
d		2 25	−14 44.6	478
e		2 27	−14 38.1	479
f		3 2	−14 35.2	480
z		3 13	−14 38.6	481
A		2 58	−14 43.	482

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Sch. Ord.

Var.

12

12

11

11

11

12

12

12

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1869phae.proj.1717.

R Delphini

Ag.	Sch. R	name R Delphini	RA. 1855.	Dec.	
			20h 7m 35s	+8° 38.8	
	a		20 7 15	+8 36.0	483
	f		20 7 21	+8 30.f	484
	e		20 8 8	+9 5.2	485
	d		20 8 9	+8 54.1	486
	b		20 8 26	+9 15.1	487
	g		20 8 48	+8 28.f	488
	h		20 9 0	+8 32.5	489

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1869phae.proj.1717.

Sch. var.	D.M. Var.
30.3	4.7
17.0	
22.0	
23.4	
28.8	4.6
14.2	
10.0	

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1869phae.proj.1717.

126 ✓

R Cephei.

Obj.	Sch.	Name	R.A. 1855.	Dec.	
	R	R Cephei	$20^h\ 34^m\ 37^s$	$+88^\circ\ 41'.0$	
	a		18 42 30	$+89^\circ\ 9'.5$	490
	b		20 53 59	$+88^\circ\ 4'.7$	491

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Sch. Var.	Ill. Var.
10.0	9.3
14.3	9.0

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1869phae.proj.1717.

R Vulpeculae

Ag.	Sch.	Name	R.A. 1855.	Dec.	
	R	R Vulpeculae	$20^h\ 57^m\ 56^s$	$+23^\circ\ 14'.9$	
	a		20 55 29	+23 5.9	492
d	c		20 57 26	+22 47.4	493
e	e		20 57 28	+22 51.1	494
b	b		21 0 35	+23 0.1	495 a
a			20 56 46	+23 52.9	495 b
c			20 58 39	+22 54.9	495 c

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Ag.	Sch. Var.	Dsth. Var.
	26.6	7.9
	17.4	8.7
	10.0	9.0
	22.1	8.3
a		
b		7.5
c		8.5

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T Capricorni

Obj.	Sch.	Name	RA. 1855.	Dec.	
	T	T Capricorni	21h 14m 1s	−15° 46.4′	
a	a	~~D.M.~~	21 13 45	−15 39.6	496
e	e	~~D.M.~~	21 13 48	−15 35.4	497
h	h		21 13 56	−15 42.5	498
g	g		21 14 5	−15 32.3	499
	k		21 14 35	−15 23.0	500
d	d		21 14 43	−15 39.8	501
~~f~~ c			21 14 32	−15 47.5	502
f			21 14 9	−15 52.8	503

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1869phae.proj.1717.

Sich.

Var.

5.0

8.5

19.9

10.5

15.1

12.0

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1869phae.proj.1717.

μ Cephei *

Name Arg.	Name	R.A. 1855.	Dec.
μ	μ Cephei		

Seem to be same Comparison stars as for δ Cephei

* See P. 134, δ Cephei.

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Arg.

D.M.
3602

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1869phae.proj.1717.

δ Cephei ×

Ag.	Name Cod.	Sch.	Name	R.A. 1855	Dec.					
δ		δ	δ Cephei	22h 23m 48s	+57° 40′ 4	3981	9	4.00	4.4	
	?	α	α Lacertae	21 15 6.9	+61 38.3	3757	14	2.58	2.5	504
c			13 Cephei Her.	21 34 28.9	+56 50	3821	8	5.54	5.4	505
μ			P. XXI. 285	21 39 6.6	+58 7.0	3845	9	3.92	4.5	506
ν			~~ν Cephei~~	~~23 33 25.9~~	~~+76 49.4~~					
				21 41 17.13	+60 26.2	3855	14	4.50	4.5	507
b			14 "	21 57 12.0	+57 18.0	3894	7	5.49	5.5	508
ξ	ξ	ξ	ξ "	21 59 36	+63 54.9	3903	16	4.45	4.5	509
ζ	ζ	ζ	ζ "	22 5 49.6	+57 29.3	3922	9	3.48	3.7	510
ε	ε	ε	ε "	22 9 43.5	+56 19.3	3942	8	4.24	4.5	511
a	b	α	α Lacertae	22 25 19.3	+49 32.2	3987	9	3.90	4.2	512
l		l	l Cephei	22 44 32	+65 25.9	4037	16	3.62	3.7	513
		γ	γ Cephei	23 33 25.9	+76 49.4	4182	10	3.37	3.5	514

× with μ Cephei

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1869phae.proj.1717.

Ca Arg.	Sol		Fe
Var.	Var.		Var. 3732
	6.9	9.1556,4	3.0 3522
-2			6.2 3580
Var	Var		Var 3602
0.4			~~3.5~~ 4.5
-2	~~2.8~~		6.4 3647
3.0	2.8		4.5 3656
11.4	12.3	8.8399,5	4.1 3676
2.0	2.1	8.5320,4	5.1 3695
7.1			4.0 3737
10.6	10.2	8.8333 2	3.8 3787
	15.6	8.8284 4	3.5 3929

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1869phae.proj.1717.

S Aquarii.

Name. Rg.	Name =I.I. 44860.	R.A. 1855 h m s	Dec. ° ′ ″	
S	S Aquarii	22 47 43.4	− 21 6.9	
g	I.I. 44823	22 47 43.4	− 20 54.7	575
c	I.I. 44835	22 48 7.6	− 21 18.2	576
a		22 49 35	− 21 12	577
b	Ö2. 22509	22 49 43	− 21 26	578
e	I.I. 44877	22 50 8.2	− 21 2.9	579
d	Ö2. 22531	22 51 7	− 21 40	580

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1869phae.proj.1717.

Arg. Var.

7.
4.
6.
12.5

Misc. Var.

7 I, I,
9 I, I.

8.9 Ö.
7.5 I, I.
9 Ö.

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β Pegasi

Bayer	Flam.	Name	R.A. 1855.	Dec.				
		β Pegasi	22h 56m 49.9s	+27° 17'.8	4078	11	2.56	
ε		ε Pegasi	21 37 5.1	+9 13.2	3836	15	2.41	521
η	η	η "	22 36 12.5	+29 27.7	4020	9	3.06	522
μ		μ "	22 43 2.0	+23 57.0	4034	6	3.74	523
α	α	α "	22 57 33.7	+14 27.0	4080	18	2.61	524
α	A	α Andromedæ	0 0 57.0	+28 17.4	5	16	2.08	525
γ		γ Pegasi	0 5 46.4	+14 22.6	23	13	3.04	526

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Ag. Var.	Wzeff. Var.	No.	DM. Var.	3826
5.6	9.2062	7	2.3	3594
1.0	9.0138	10	3.2	3770
	8.8038	10	3.9	3784
3.0	9.1739	5	2.0	3828
7.0	9.2981	4		5
	9.0721	2	2.5	23

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Ke Pegasi.

Name dig.	Name	RA. 1855.	Dec.		
	D.M. 5158.				
R	R Pegasi	+22h 59m 28.6s	+9° 43.0		
a	D.M. 5156	22 58 9.3	+9 39.5		527
c	" 5159	22 59 36.8	+9 35.7		528
b	" 5164	23 1 3.1	+9 48.5		529
d*	" 5154	22 59 35.8	+9 28.8		530
a	~~22 58 9.3 / 2 +9 39.5~~			Same as 527	531
γ	~~22 59 36 +9 30.9~~			" " 530	532
a	22 59 29	+9 45.9		11	533
τ	23 0 44	+9 17.5			534
υ	23 1 04	+9 18.4			535
7 Sc. β	22 59 40	9 35.3		10½	536
b	22 59 13	9 48.8		11	537
d	22 59 17	9 50.2		10½	538
e	22 59 15	9 54.2		10½	539
l	22 59 27	9 40.4		11	540
π	22 59 43	9 40.4		10½	541
s	22 58 51	9 40.2		10½	542

* BR VII. p 505. Arg. says he cannot determine this star; but on p. 524, he identifies it with tolerable certainty with D.M 9°.5154, whose place I have accordingly inserted above. S.C.C.

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Comp. for Variables.

R. Pegasi. What obscure kinds Argp.? See Book 27, p. 140.

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Ay.	Ill.
Var.	Var.
14	8.0
3	9.5
7.5	8.5
9	8.0
	8.0
	9.0

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R Aquarii

Sig.	Name	R.A. 1855.	Dec.		
K	R Aquarii	23 36 18.8	−16 5.3	✓ ✓	
h	P. 122	23 27 16.2	−16 2.5	✓ ✓	543
g	I.I. 46286	23 30 30.1	−15 51.8	✓ ✓	544
d	I.I. 46434	23 34 26.9	−16 15.9	✓ ✓	545
f		23 36 21.5	−16 ~~38~~ 20	✓ ✓	546
a	I.I. 46514	23 36 59.0	−15 13.4	✓ ✓	547
e		23 38 31	−15 ~~36~~ 12	✓ ✓	548
c	I.I. 46558	23 38 ~~32~~ 22+	−15 56.2	✓ ✓	549
b		23 38 ~~44~~	−15 ~~27~~ 34+	✓ ✓	550
		23 34 1	−16 26	✓ ✓	543a
		23 34 57	−16 15	✓ ✓	544b
		23 36 40	−16 30	✓ ✓	545c
		23 38 10	−15 33	✓ ✓	546d
		23 42 2	−16 37	✓ ✓	547e
		23 42 54	−15 18	✓ ✓	548f
		23 42 54	−15 52	✓ ✓	549g
		23 42 59	−15 30	✓ ✓	550h

6+ Mean anomaly of Ephemeris for 1800 23° 35′ 50″ −15° 45′

1855 23° 38.7 −15° 27′

Dm −15° 6491 7.8 38.4 −15° 34′

15 6495 9.0 38.7 −15 18

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Aug.	Misc
Var.	Var.
23.4	6.7 P.
17.4	7 I.I.
8.7	8.5 I.I.
4.6	
10.0	8.5 I.I.
3.0	
8.1	8.5 I.I.
12.6	
	2.0
	5.5
	9.0
	2.0
	2.0
	7.5
	9.0
	9.0

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R Cassiopeiae

Name Ag.	Sch.	Name	R.A. 1855.	Dec.	
	R	R Cassiopeiae	23h 51m 4s	+50° 31' 9	
	m		0 9 31	+47 8.5	551
	p	8 Andromedae	23 11 2	+48 13.4	552
	n	18 "	23 32 8	+49 40.1	553
	d		23 48 2	+50 55.2	554
a	a		23 50 43	+50 25.7	555
	K		23 50 48	+49 37.6	556
b	b		23 51 13	+50 31.0	557
	e		23 51 32	+51 1.1	558
	f		23 52 0	+49 42.2	559
	h		23 52 10	+50 1.6	560
c	c		23 52 49	+50 28.6	561
l	l		23 53 56	+49 10.5	562
	g		23 55 15	+50 39.9	563
d			23 49 20	+50 41.1	564
e			23 51 20	+51 1.3	565
f			23 51 54	+49 43.3	566
g			23 52 50	+50 0.0	567
h			~~23 50 49~~	~~+49 37.8~~ - same as 556	568
i			23 46 20	+50 42.8	569
K			23 48 ~~15~~	+51 53.7	570
m			23 44 20	+50 42.9	571
			23 43 10	+50 49	551a

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1869phae.proj.1717.

Sch. Var.	4234		Δ m.
34.8	39	5.77	6.0
48.6	4120	4.87	4.9
42.8	4177	530	5.7
11.3			f.K
5.0			
26.1			6.7
8.2			9.0
11.6			f.5
14.6			7.7
22.0			7.2
10.6			f.9
30.8			6.5
17.4			7.f
			f.7
			7.2
			f.5
			6.7
			7.0
			6.5
			f.4
			7.0

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1869phae.proj.1717.

δ Librae

A.N. lxxiv 342

	Name	R.A.	Dec.	H.C.	
δ	δ Librae	14 53 14	−7° 56.4	2361	
b	B.A.C. 4948	54 26	−7 0.1	—	572
e	ε	15 86 ~~31~~	−9 47.9	2407	573
f	37	26 15	−9 33.8	2434	574
d	15 Her.	26 37	−8 41.4	2435	575
c	178 Bode	30 51	−8 18.9	2452	576

Nova Aquilæ = 2100. U Aquilæ = Gore Newsletter 655

	R.A.	Dec.
c	~~K3~~ ~~Kg~~.	+19° ~~Kg~~
d	KK ~~K~~.	+20 16
a	K~ KK	+20 1~
b	46 22	+19 KK
f	47 1~	+20 ~
g	K~ 41	+20 1K

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Obs.	H.C.	No	Mag.	Ca.	
Var.	2586	6	4.91 var	5.6	5.30
0.0		~~7~~	~~5.75~~	6.6 5.5	6.57
12.5	2587	7	5.75	5.5	5.21
15.2	2586	6	4.86	5.5	5.04
8.5	2587	3	4.95	5.6	5.22
3.5	2606	3	5.85	6.2	5.95

Obs. Magn.	Phot. Magn.
6.0	6.09
7.2	6.67
5.0	5.70
6.3	5.91
9.2	5.94
9.5	5.90

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Winnecke — U Coronae — A.h. l x x vi 257

U	15	12	17.2	32	10.8		
N	15	13	48.0	+32	22.1	9.0	577
c		14	28.0		33.6	8.9	578
e		16	35.2		31.5	8.1	579
d		16	57.6		3.7	8.1	580
f		17	30.0		20.3	7.8	581

224 Nova Andromedae.

a	0	34	10 [2557]	+39	54	7.0	732
g		34	35	+40	10	9.0 (stab. with var.) (2 stab.)	733 734 735
f		35	20	+40	13	9.1	736
d		36	23	+39	53	8.5	737
e		36	42	+39	53	7.1	738
c		38	7	+40	1	7.5	739
b		38	9	+40	44	9.1	740
f'		39	46	+40	38	9.1	741
g'		40	21	+40	48	9.0	742
b		41	4	+40	21	8.0	743
a'		41	18	+40	18	7.6	744

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257

	7.57
0.	8.87
4.7	8.54
13 ±	8.20
10.2	8.54
15.8	7.87

Ph. mags.

7.02
9.17
9.09
9.10
8.76
7.57
7.57
9.77
9.56
9.50
7.97
7.47

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Variables of short Period. < 1 Tag.

Algol Type.

		RA 1870		Dec 1870		Per.	Max	Min.		
	δ Cephei					5.49			Celoria	'80
17	β Persei	2	59.7	+40	27	2.87	2.5	4	Montan	1669
19	λ Tauri	3	53.4	+12	7	3.95	3.4	4.2	Baxen	'48
47	δ Cancri	8	36.5	+19	00	9.48	8.	10.5	Heis	'48
74	δ Librae	14	54.0	−8	0	2.32	4.9	6	Schm.	'69
75	U Coronae	15	12.7	+32	7	3.45	7.6	8.8	Winn	'69

β Lyrae Type.

34	S Monoc.	6h	33.8m	+10°	1′	3.4	4.7	5.4	Winn.	'67
36	ζ Gemin	6	56.4	+20	45	10.2	3.8	4.5	Schm.	'44
98	X Sagittarii	17	39.4	−27	47	7.0	4	5.5	Schm.	'66
99	W Sagittarii	17	56.7	−29	35	7.6	5	6	Schm.	'66
106	β Lyrae	18	45.3	+33	13	12.9	3.5	4.5	Good.	1784
108	S Coronae Aus.	18	52.4	−37	7	6.2	10	11.5	Schm	'66
103	U Sagittarii	18	24.2	−19	13	6.7	7	8	Schm.	'66
118	η Aquilae	19	45.9	+0	40	7.2	3.6	4.7	Pigott	1784
137	δ Cephei	22	24.3	+57	45	5.4	3.7	4.8	Goodrich	1784

32	T Monoc.	6	18.2	+7	9	27	6	7.5	Davis	'71
66	W Virginis	13	19.3	−2	42	17	8.7	10	Schön	'66
90	μ Herculis	17	12.5	+33	14	88.5	4.6	5.4	Schm.	'69
105	R Scuti	18	40.6	−5	50	71	5	8.5	Pigott	1795
107	R Lyrae	18	51.4	+43	47	46	4.2	4.6	Baxen.	'56
109	R Cor. Aust.	18	53.2	−37	4	54	10	12.5	Schm.	66
116	S Vulpec	19	43.1	+26	58	67.5	8.5	9.5	Argel	'37
122	R Sagittae	20	8.1	+16	20	70.4	8.3	10.3	Baxen	59

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AN. lxxvi, 257

AN. lxxvi, 249	948 0.7	f 0.8	1.0	131				
	~~n 0.5~~	~~f 0.5~~	~~135°~~	~~45°~~	~~(208°)~~	a ∓	72°	−31
	n 1.7	p 0.4	~~193°~~	347°	a +		76°	+1
	~~s 1.5~~ ~~n 0.5~~	f 0.3		169	a +		99°	−10
	s 2.7	p 1.8	~~326°~~	214°	a +		104	194 +20
	s 1.5	p 0.3	~~349°~~	191°	a +		134	224 −33°
	s 0.8	f 1.9	72°	162°	a −		72°	162 0°
	n 1.0	f 4.9	78°	78°	n		89	179 79°
	s 3.0	f 8.7	71°	109°	n		97	187 78°
	n 4.2	p 3.0	54°	324°	n		107	~~197~~ 53°
	s 0.3	f 5.0	87°	9.3° 1.7	n		107	197 76°

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Z Coronæ

see list of comp. stars AN. 1620 (LXVIII, 184)

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U Geminorum R.A. xvii 200

R.A. 1860 +22°

	U Geminorum	7	46	48		22	Mag. Chem.	
d			45	41		36	10.3	582
e			46	17		12	11.0	583
f			46	48		28	11.3	584
h			46	52		26	12.4	585
a			46	52		02	8.8	586
g			47	04		22	12.1	587
b			48	06		12	9.3	588
c			48	14		14	9.3	589

See p. 58

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Chandler

S Vulpecula

A. J. L. XVIII 322

S Vulpecula		19	42	27	+26	55.7		
	h		39	49		43.3	9.2	590
	k		39	50		50.2	9.6	591
g	g		40	39		48.4	9.1	592
	f		44	51	27	19.1	8.5	593 a
d			42	4	26	32.9		593 b
c			43	48	26	32.5		593 c
b			42	35	26	33.2		593 d
a			43	21	27	4.1		593 e

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Chandler	D.M
11.2	9.1
	~~8.8~~
7.0	9.2
5.4	9.3
5.0	9.4
3.6	9.1

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ν Virginis. G h (xxxi. 161

Sch. ν Virginis

a	13	20.9	−2 43	594
b		21.4	53	595
g		21.8	12	596
d		22.1	18	597
c		23.0	28	598
h		23.6	4	599

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β Leonis

η Aquilæ

δ Cephei

δ Geminorum

β Canis

β Aurigæ

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Keller cat. stars Princeton.

Design. C. F. C.

Dm. No. H.P. M.P.

R.A. 1855

Dec. 1855

R.A. 1900

Dec. 1900

Dm. Magn.

H.P. "

M.P. "

0 Cat.

Design	No.	1855	1855	1900	1900
Arg. Sch. Ord.	Dm.	R.A.	Dec.	R.A.	Dec.
o o .		2h 12m 1.5	-3° 38.3		
B - B					

R Scuti

hg	160	2.23	5.83	5.79	.16
ge	86	2.57	5.79	6.24	.45
hc	169	3.77	5.83	6.24	.41

A.B.C.	AC	AB	BC	gc − AB+BC
hgc (160.86.169)	3.77	2.23	2.57	−0.97

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15.8
18.5
27.9
20.0
19.2
31.8

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160 ✓

Ord
p. 49

S Piscium

1855

		h	m	s	°	′	
S Piscium		1	9	59	+8	9.9	
		h	m	s	°	′	
a		1	8	3	+8	0.0	600
b			11	54	7	38.0	601
c			12	56	8	22.6	602
d			9	22	7	43.9	603
e			11	56	8	28.4	604
f			7	31	8	0.7	605
g			8	47	8	5.3	606
h			7	8	8	0.5	607
m			9	40	8	7.8	608
p			10	0	8	10.8	609
r			10	6	8	6.9	610
s			10	14	8	7.9	611
t			10	29	8	9.9	612
v			10	49	8	15.3	613
y			10	11	7	57.7	614
Z			10	29	7	57.8	615
a′			13 (?)	22	8	6.2	(13m assumed) 616

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Ord.	Dec.
8	8.5
8½	8.2
9	8.5
9	
9	9.4
10	
11	
10	
10½	
12	
12	
11½	
10½	
11½	
11	
11	
9	

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R & S Tauri

1855

Ord						
	R Tauri	4	20	21	+9	50.2	R Tauri
a			20	7	9	44.6	617
b			19	55	9	41.5	618
(b)	companion of b						619
c			22	26	10	8.7	620
d			23	1	10	5.9	621
e			19	53	9	57.0	622
f			20	56	9	42.5	623
g			20	45	9	4~~4~~5	624
h			19	37	9	50.3	625
i			20	23	9	52.2	626
k			20	53	9	50.6	627
l	S Tauri		21	16	9	37.2	S Tauri

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Ond	D. M.
8.3	7.8
8.7	8.3
10.	
9	9.4
9	9.2
9.7	
10.5	
10.5	
10.7	
11	
11	
10 nov	

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δ Leibn.

-7.0	13.0
6.5	12.75
6.0	12.25
5.5	11.5
5.0	11.0
4.5	10.25
4.0	9.5
3.5	8.75
3.0	7.75
2.5	6.93
2.0	5.97
1.5	4.81
1.0	3.34
0.5	2.37
0.0	2.04
0.5	2.35
1.0	3.19
1.5	4.49
2.0	5.68
2.5	6.59
3.0	7.5
3.5	8.25
4.0	9.00
4.5	9.5
5.0	10.25
5.5	11.0
6.0	11.5
6.5	12.0
7.0	12.5
7.5	12.75
8.0	13.0

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A. Schuster 1869. A.h. lxxiv. 337

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f 15.2
ε 12.5
d 8.5
c 3.5
h 0.0

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168 √

Ond.

R Orionis
1855

	R Orionis	4	51	6	+7	54.2	
a			50	57	7	50.5	628
b			50	42	7	52.6	629
c			50	44	7	43.2	630
d			~~50~~	4	8	7.4	631
e			~~49~~	52	7	51.8	632
f			49	46	7	55.2	633
g			50	49	8	6.4	634
h			51	13	8	11.1	635
k			52	46	8	12.1	636

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Ond.

11
11½
11
10
11
11
9½
9
9

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Light Curves of Variables

of β Lyrae type.

β Lyrae.

	A	B		
0	2.87	3.35	0 0.0	
0.5	4.50	4.65	0 12.9	
1.0	8.53	8.81	1 8.8	
1.5	10.77	10.85	14.7	
2.0	11.42	11.66	2 3.6	
2.5	11.77	12.10	16.5	6
3.0	11.89	12.26	3 5.4	5
3.5	11.81	12.21	18.3	4
4.0	11.47	11.98	4 7.2	3
4.5	10.91	11.56	20.1	2
5.0	10.18	10.96	5 9.0	1
5.5	9.24	10.00	21.9	0
6.0	8.35	8.71	6 10.8	9
6.5	8.22	8.56	23.7	8
7.0	8.93	9.38	7 12.6	7
7.5	10.35	10.70	8 1.5	6
8.0	11.20	11.55	14.4	5
8.5	11.65	12.02	9 3.3	5
9.0	11.88	12.27	16.2	4
9.5	11.93	12.36	10 5.1	3
10.0	11.78	12.27	18.0	2
10.5	11.46	11.96	11 9.9	1
11.0	10.94	11.43	19.8	20
11.5	9.89	10.35	12 8.7	
12.0	6.48	6.75	21.6	
12.5	3.56	3.67		

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			B	D	E
0	0	0.0	3.35	3.62	4.0
		12.9	4.99	4.41	5.0
30	1	1.8	9.22	9.19	8.0
		14.7	11.08	11.30	10.6
60	2	3.6	11.83	12.16	11.8
		16.6	12.20	12.57	12.5
90	3	5.5	12.26	12.70	12.6
		18.4	12.11	12.48	12.4
120	4	7.3	11.75	11.91	11.7
		20.2	11.18	10.89	10.7
150	5	9.1	10.30	9.87	10.0
		22.0	8.83	9.12	9.2
180	6	10.9	8.55	8.89	9.1
		23.8	9.36	9.31	9.5
210	7	12.7	10.76	10.24	10.7
	8	1.6	11.63	11.22	11.8
240		14.5	12.08	12.04	12.4
	9	3.5	12.32	12.36	12.8
270		16.4	12.35	12.39	12.9
	10	5.3	12.16	12.28	12.8
300		18.2	11.73	11.90	12.4
	11	7.1	10.91	10.77	11.4
330		20.0	8.41	7.95	9.0
	12	8.9	4.82	4.23	4.7
360		21.8	3.35	3.62	4.0

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A Angelander. 1844

B Angelander. 1869

C Angelander 1872 A.N. xix 397

D Schiaparelli 1870 A.N. lxxv, 1

E Andrussow 1853-5

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	A			B			C			D
	d	h		d	h		d	h		
Min.	0	0	2,87	0	0	3,35	0	0	2,9	3,62
Mean	3	2	11,91	3	2	12,27	2	23	12,5	3 3 12,70
Max.	6	8,5	8,20	6	9	8,54	6	10	8,4	6 9 8,88
Mean	9	10	11,94	9	12,5	12,36	9	25	12,0	9 12 12,40

	B	C	D	Wolff.
γ	~~13,0~~ 12,7	12,7	15,0	8,89
Oberon	7,6	7,6	7,8	8,69
ε	4,9	4,8	4,2	8,50 / 8,45 } 8,77
ζ	3,4	3,2	2,9	8,56
δ		2,0		8,50
μ H.			13,0	8,79
ξ H.	10,3	~~10,3~~	10,3	8,70
κ	2,6	~~2,6~~	1,2	8,58

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ζ Geminorum

	λ.	d. L.	A			Θ	C	Θ-C		
			3.4	8.58		79.4	80.0	-.6	0	-6
15°	10.2	10.2	3.6	.58	.90	79.4	80.4	-10	+5	-16
30	20.3	20.3	4.1	.59	.91	81.3	81.3	0	+10	-10
45	30.5	1 6.5	4.7	.61	.93	85.1	82.9	+22	14	+8
60	40.6	1 16.6	5.2	.62	.94	87.1	85.0	+21	17	+4
75	50.8	2 2.8	5.7	.63	95	89.1	87.4	+17	19	-2
90	60.9	2 12.9	6.1	.64	96	91.2	90.0	+12	20	-8
105	71.1	2 22.9	6.5	.65	97	93.3	92.6	+7	19	-12
120	81.2	3 9.2	6.9	.66	98	95.5	95.0	+5	17	-12
135	91.4	3 19.4	7.2	.67	99	97.7	97.1	+6	14	-8
150	101.5	4 5.5	7.3	.67	99	97.7	98.7	-10	10	-20
165	111.7	4 15.7	7.4	.68	.00	100.0	99.6	+4	5	-1
180	121.8	5 1.8	7.4	.68	.00	100.0	100.0	0	0	0
195	132.0	5 12.0	7.3	.67	.99	97.7	99.6	-19	5	-14
210	142.2	5 22.2	7.1	.67	.99	97.7	98.7	-10	10	+0
225	152.3	6 8.3	6.8	.65	.97	93.3	97.1	-38	14	-24
240	162.5	6 18.5	6.4	.65	.97	93.3	95.0	-17	17	0
255	172.6	7 4.6	6.0	.64	.96	91.2	92.6	-14	19	+5
270	182.8	7 14.8	5.5	.63	.95	89.1	90.0	-9	20	+11
285	192.9	8 0.9	5.0	.61	.93	85.1	87.4	-23	19	-4
300	203.1	8 11.1	4.5	.60	.92	83.2	85.0	-18	17	-1
315	213.2	8 21.3	4.0	.59	.91	81.3	82.9	-16	14	-2
330	223.4	9 7.4	3.7	.59	.91	81.3	81.3	0	10	+10
345	233.5	9 17.5	3.5	.58	90	79.4	80.4	-10	5	-5
360	243.7	10 3.7	34	.58	90	~~79.4~~	~~80.0~~	~~-6~~	~~0~~	~~-6~~

2109.4
107
46 9.0
168
24 | 2149.4
89 | 192
296
1340

+94
264
~~210~~
~~398~~
±13

+38
-135
173
±.07

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1869phae.proj.1717.

Q 7.0
.79

C'

79.3	+1
80.2	-8
81.7	-4
83.7	+14
86.1	+10
88.8	+3
91.6	-4
94.2	-9
96.5	-10
98.3	-6
99.5	-18
100.0	0
99.9	+1
99.0	-13
97.5	+2
95.5	-22
93.1	+2
90.4	+8
87.6	+15
88.0	+1
82.7	+5
80.9	+4
79.5	+18
79.2	+2

$\Sigma + = 86$

$\Sigma - = 94$

$24 \overline{)180.}$

$.08$

$C' = 89.6 - 10.3 \cos v + 2.0 \sin v$

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A. Angelander 1848 Q. 2. xxviii. 33

B " Bonn Beob. vii 391

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0,0	3,4	4:1	
4 19.5	7.5	3.7	

	A	Wolf.			
ε =	9.9	8.81	3.4	4.1	9.3
δ	8.8	8.73	3.6	3.8	9.6
ζ	8.0	8.68	3.6	3.7	8.1
c	6.0	8.66	4.0	4.1	
o	3,3	8.58	4.2	4.4	4.9
r	2,0	8,55	4.0	4.3	2.0

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η Aquilae

A

0.0	1.2	0	0.0	1.2	8.58	9.70	50.1	−17.1
0.5	2.7		7.2	1.7	.53	.72	52.5	+14.7
1.0	5.3		14.4	3.2	.57	.76	57.5	−9.7
1.5	8.1		21.5	4.8	.63	.82	66.1	−0.9
2.0	10.6	1	4.7	6.3	.67	.86	72.4	+5.2
2.5	11.3		11.9	8.1	.72	.91	81.3	+14.1
3.0	10.1	90°	19.1	9.6	.76	.95	89.1	+21.9
3.5	8.7	2	2.3	10.9	.79	.98	96.5	+28.3
4.0	7.8		9.4	11.4	.81	.00	100.0	+32.8
4.5	7.2		16.6	10.9	.79	.98	95.5	+28.3
			23.8	10.1	.77	.96	91.2	
5.0	6.5	3	7.0	9.2	.75	.94	87.1	+19.9
5.5	5.3	180°	14.2	8.5	.74	.93	86.1	+17.9
6.0	3.7	~~180~~	21.3	8.0	.72	.91	81.3	+14.1
6.5	2.3	4	4.5	7.6	.71	.90	79.4	+12.2
7.0	1.3		11.7	7.2	.70	.89	77.6	+10.4
			18.9	6.8	.69	.88	75.9	+8.7
		5	2.0	6.4	.67	.86	72.4	+5.2
	270°		9.2	5.8	.65	.84	69.2	+2.0
	~~270~~		16.4	4.7	.62	.81	64.6	−2.8
			23.6	3.7	.59	.78	60.3	
		6	6.7	2.9	.56	.75	56.2	−11.0
			13.9	2.1	.54	73	53.7	−13.5
			21.1	1.5	.52	.71	51.3	−15.9
		7	4.3	1.2	.51	.70	50.1	

1613.8
60.3
91.2
1765.3 | 24
168 | 73.6
85
72
10
6
11

1703.8
1613.5
60.3
67.2
1674.1
69.8

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6-c

0	-19.7	0°	-23.5	-22	-1.5
	-17.3		-21.1	-20	-1.1
30	-12.3	30	-16.1	-15	-1.1
	-12.7		-7.5	-8	+.5
60	+2.6	60	-1.2	0	-1.2
	11.5		+7.7	+8	-.3
90	19.3	90	+15.5	+15	+.5
	25.7		+21.9	+20	+1.9
120	30.2	120	+26.4	+22	+4.2
	25.7		+21.9	+22	-.1
150	17.3	150	+17.6	+20	-2.4
	15.3		+13.5	+16	-2.5
180	11.5	180	+11.5	+12	-5
	9.6		+7.7	+12	-4.3
210	7.8	210	+5.8	+5	+.8
	6.1		+4.0	+2	+2.0
240	+2.6	240	+2.3	0	+2.3
	-0.6		-1.2	-2	+.8
270	-5.2	270	-4.4	-5	+.6
	-9.6				
300	-13.6		-9.0	-8	-1.0
	-16.1	300	-13.3	-12	-1.2
330	-18.5		-17.4	-16	-1.4
		330	-19.9	-20	+.1
			-22.3	-22	-3

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A Angelander 1862 A.N. xix. 399.

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H.P.

Min.	0 0	1,2	4.5
Max	2 9	11,4	3.7

Δ

δ	13.3	8.85	3.5
β	8.	8.74	4.0
ε	6.	8.63	4.1
ζ	3.	8.57	4.3
μ	-1,4	8.43	4.7
ν	-2,4		4.8

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δ Cephei.

	A			A	B	C
0.0	2.8	0	0.0	2.8	2.98	3.4
0.5	3.8		5.4	3.0	3.11	3.2
1.0	7.4		10.7	3.5	3.54	3.3
1.5	10.5		16.1	4.7	4.62	5.3
2.0	9.0		21.5	6.5	6.58	7.5
2.5	8.4	1	2.8	8.4	8.74	10.3
3.0	7.6		8.2	9.9	9.98	11.1
3.5	6.8		13.6	10.7	10.41	12.2
4.0	4.8		19.0	10.1	10.03	10.9
4.5	3.8	2	0.3	9.0	9.33	10.4
5.0	3.1		5.7	8.5	8.59	9.6
			11.1	8.4	7.99	8.6
			16.4	8.3	7.83	7.7
			21.8	7.8	7.55	6.8
		3	3.2	7.1	6.82	6.2
			8.5	6.3	6.18	5.6
			13.9	5.6	5.60	5.0
			19.3	5.2	5.12	4.4
		4	0.6	4.7	4.68	4.0
			6.0	4.3	4.28	3.7
			11.4	3.9	3.94	3.6
			16.7	3.4	3.62	3.6
			20.1	3.2	3.34	3.6
		5	3.5	2.9	3.10	3.5
			8.8	2.8	2.98	3.4

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R Scuti Sept 108 ✓
χ Cygni 116 ✓
R Aquarii 142 ✓

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A Argelander 1842. A. N. xix, 295.

B Schonfeld 1890 A. N. cxxv 14

C. Oudemans. 1853-6 Pl III ... Ad. mod. ← Argel.

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	d	h			
Min.	0	0	2.8		4.3
Max.	1	14.5	10.7		3.5

	A		B		
ζ	11.4		12.4	8.84	3.4
ι	10.8		10.9	8.83	3.6
ξ	3.0				4.4
ε	2.0	~~1.0~~	1.9	8.03	4.2
γ	7.1		6.6		3.9

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186 ✓

and

R Geminorum

1855

R Geminorum	6 58 38	+22 55.4	
w^2	56 34	22 50.9	637
a	57 34	22 54.1	638
b	58 35	22 43.8	639
c	58 39	23 0.9	640
d	59 4	22 58.7	641
e	58 44	23 11.2	642
f	58 0	23 27.1	643
g	58 30	24 24.	644
h	59 25	22 59.7	645
i	59 29	23 3.2	646
k	59 6	22 47.4	647
l	59 18	22 44.6	648
m	58 21	22 55.1	649
n	58 33	22 52.7	650
p	59 47	23 5.1	651
t	7 1 2	22 35.7	652

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hrs	D km.
6½	7.1
8	8.5
9	8.K
9	9.0
9	9.1
9	9.0
8	8.0
7	7.1
9½	9.5
10	—
11	—
11	—
11	—
11½	—
9½	9.5
7½	8.0

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ond

T Cancri

1855

	T Cancri	8	48	22	+20	24.0	
a			47	9	20	21	653
b			49	1	20	26.4	654
c			46	51	20	24.6	655
d			46	27	20	24.0	656
e			44	21	20	33.1	657
f			48	38	20	45,1	658
g			45	37	20	30.6	659

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Obs	Diam.
9½	9.5
9½	9.2
9	9.1
9	9.2
9	9.0
8	8.0
7	7.2

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Σ Hydræ

1855

Obs.							S Dem Mag.	
a	Σ Hydræ	8	48	37	−8	35.4	Var.	
a			47	~~21~~ 20	−8	~~40.0~~ 38.3	8.3	660
b			44	~~16~~ 14	−8	~~29.9~~ 28.5	9.3	661
c			47	33 ~~38~~	−8	36.2	—	662
d			~~50~~ 49	~~46~~ 43	−8	30.7 ~~28.7~~	8.8	663
e			49	65 ~~20~~	−8	44 :	—	664
f			50	~~21~~ 18	−8	~~42.8~~ 41.1	9.3	665
g			48	~~45~~ 43	−8	32.7 ~~31.2~~	10.	666
h			~~47~~ 42	4 ~~40~~	−8	38.7	—	667
i			48	31 ~~46~~	−8	32.	—	668
k			~~44~~ 44	~~42~~ 17	−8	35.2 ~~33.9~~	7.5	669

Call them Rar and 15 sec too
small (except Σ Hydræ)
See Weisse Ar 49. 251.

S. D. places finally substituted for the original values, corrected by 15 secs.

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Ord

9
10
11
9½
10
10
10½
11
11½
8

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Chandler

Z Herculis

1855

	Z Herculis	18	3 37	+30	57.9
g	D.M. 30°.3142		4 33.8	30	49.2	670
c	31.3180		3 7.7	31	26.2	671
b	31.3196		5 30.4	31	12.5	672
e	31.3177		2 35.7	31	29.4	673
d	31.3176		2 31.7	31	24.5	674
f	30.3127		1 24.0	30	53.7	675
a	30.3139		3 45.9	30	39.9	676
h	30.3136		3 36.7	30	50.1	677
i	31.3189		4 3.5	31	11.3	678
			3.7		30. 26.4	670a

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Chandler

D. M.

25	8.0
23½	8.0
23	8.2
22	8.8
19	9.2
20	8.8
17	9.5
16	9.4
13	9.5
	7.2 (W.)

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194 ✓

Chandler Schön R Sagittae AN ZXXVIII, 145

		r R Sagittae	1855					
			20	7	27	+16	17.4	
e	a		20	7	2		17.5	679
	b			8	(40/50)?		17.2	680
	c			7	23		33.2	681
a	d			7	47		18.5	682
	e			7	20		29.4	683
b	f			8	14		17.7 ~~20.4~~	684
d	g			7	3	16	7.7	685
	h			7	16	15	59.3	686
c				8	41.6	+15	55.6	687

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Chm	Sch	D.M
5.0	8.7	9.5
	11.5	9.5
	14.2	9.4
7.2	17.1	9.3
	19.7	7
8.4	22.6	9.2
11.0	25.9	8.7
	29.3	8.5
10.8		8.7

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Chandler

R Leonis Minoris

1855

	R Leo. Min.				
		9	36 52	+35 10.6	
d	9.34.2022		35 2	+34 46.	688
b	35.2046		35 32	35 22.	689
c	35.2048		36 1	35 38	690
e	35.2043		34 6	35 2	691
a	35.2054		38 21	35 2	692

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Chandler	D.M.
23.4	7.2
21 6	7.7
20.2	8.4
16.9	8.2
15.	9.0

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Schaeberle

R Camelopardalis

1855

	R Camelop.	14	28 57	+84	29.2
a	Dm 83.431	15	0 27	83	6.2	693
b	Dm. 84.322	14	25 24	84	36.4	694
c	" 84.326		36 34	84	21.9	695
d	" 84.324		34 41	84	43.4	696
e	" 84.325		34 56	84	26.6	697

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Chandler

D. M.

6.0

10

8.0

8.2

8.6

9.0

9.5

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Minima of Algol. (Argelander.)

				h	m	s			Cl.		
1	1840.	Feb	22	11	26	24	12	0	E	-33	6
2		"	25	8	21	18	9	51	144	-90	9
3		Mar.	19	6	57	48	7	34	E	-36	10
4		Sept.	1	14	17	48	14	15	44	+2	47
5		"	27	9	37	24	9	44	~~44~~	~~+2~~	~~47~~
6		Oct.	17	11	1	42	10	50	E	+11	44
7		Dec.	19	13	24	42	13	10	44	+14	43
8		"	22	10	18	54	10	4	"	+14	57
9			25				5	59	.	+14	59
10	184	~~Jan~~ Mar	18				10	4	"	+18	8
1		Aug.	14				22	40	~~+3 7~~	37 S1 +	73
2		Sept.	29				22	23	~~9 49~~	" S1 +	27
3		Oct.	19						10 47	44 +27	1
4	1842	Oct-	21				2	7	~~12 6~~	37 S1. -1	12
5		Dec.	3						12 17	E -3	15
6		.	6				1	59	~~8 59~~	37 S1. +	20
7	1843	Sept	13						9 4	44 -8	0
8	1844	Jan	23						6 56	44 -12	28
9	1845	Oct.	29						9 57		
20	1846	Sept.	18						9 41		
1	1847	Nov.	2						10 6		
2		.	5						7 18		
3	1848	Jan	7						8 58		
4	.	.	10						5 43		
5	.	.	27						10 43		
6	1850	Jan.	30						11 30	7 -21	55
7	1851	Feb.	24						10 35	~~4~~ ~~0 21 55~~	
8		Oct-	20						9 51	0	
9	1852	Mar	20						9 10	..+1	47
30		July	24						12 57	0	

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	14	8.2
	3	8.9
	25	8.9
	24	9.6
	18	9.7
	20	9.9
	3	8.9
	4	1.3
	1	9.7
	1	2.5
	19	1.0
	4	9.3
Aug	24	9.5
Sept	19.	0.3
	12	1.9
	10	1.3
	9	9.7
	10	1.3
	9	0.6
	5	2.2
	2	9.8
	5	1.1
	5	9.9
	11	1.0

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31	1853	Oct	3			8	33	44	−0	28″
2			23	. .		11	0	104	−23	12
3			26			7	11	44	−0	44
4		Nov.	12			12	0	"	−0	56
5		Dec.	2			13	44	"	−1	45
6	1854	Jan	20			7	45	104	−20	21
7		Mar.	4			7	55	44	−7	0
8		Aug	20			11	49	9	−1	30
9		Sept	12			10	49	104	−4	48
40		Oct	2	12 5 6 *		0	51	K S6	−	22
1			28			7	35	104	−14	4
2		Dec	7			10	52	"	−13	56
3	1855	Jan	19			11	21	"	−13	50
4			22			8	15	"	−13	57
5		Nov	19	9 13 51		1	17	K S.1	+	8
		Jan	24					104	− 18	31
6	1856	Mar	27/3			10	30	"	− 20	56
		Aug						K S2	− 1	0
7		Oct	28	11 5 23		1	37	K S.1.	− 1	49
8		"	31	8 5 2		22	48	K S.1.	− 1	50
		Jan	2					104	+	39
9	1857	Aug	25	12 43 56		23	1	K S4	−	15
50		Sept	17	11 9 44		22	57	K S.1.	−	20
1		Nov	19	13 4 52		5	2	K S.1.	−	32
2	1858	Jan	4			10	41	104	+21	33
3			7	7 18 27		2	27	K S.1.	−	23
4			27	8 49 57		5	17	K S.1.	−	17
5		Feb	16			10	24	104	+22	0
6			19			7	24	"	− 3	50
7		Mar	11	9 9 7		8	26	K S5	−	8
8		Oct	12	10 17 23		23	4	K S.1.	+	5
9		Nov.	4	8 37 6		23	32	K S.1.	+	5
60	1859	July	17			12	56	104	−	31

* R,57.76

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2 1.8
3 9.9
8 8.0
13 0.1
13 0.9
16 8.9
9 1.1
32 .2
11 9.1

18 2.5
15 8.8
33 4.3
18 2.6
11 1.8
19 2.1
8 8.1
4 2.4
3 8.2
30 3.8
37 3.4
8 0.4
20 9.6
24 9.6
18 1.2
9 2.4
18 0.5
14 0.6
5 1.5
17 0.4
10 9.8
24 1.1
14 1.5
22 8.2

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61	1859 ~~Mar~~	3	Nov.	3	12 4 41	2 55	K S1.	− 0 3
2		~~6~~		6		8 51	U	+ 3
3	1862		Mar.	18		10 20	104	− 9 10
4	1867		Feb	13		8 12		0

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4 9.6
17 0.5
7 9.1
12 0.3

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Chandler

U Herculis

1855

	N Herculis	16 19 23	+19 13.6		
o	Dm. 19.3096	18 53	19 34.9		698
n	" 3107	22 14	19 19.9		699
m	" 3102	20 50	19 19.9		700
p	" 3094	18 16	19 50.0		701
q	18, 3175	20 6	18 44.6		702
r	19.3091	17 35	19 31.5		703
a	" 3097	19 12	19 16.0		704

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Chamber	Drum
30.0	7.0
26.5	7.0
24.0	7.6
23.5	8.3
23.0	8.1
20.5	8.8
17.0	9.1

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208 ✓

Chandler

F

ξ Ursæ Majoris

1855

	F ξ Ursæ Majoris	L 29 47 + 60 17		
		~~17 57 + 64 53~~		
g *	DM. 61.1309	33 7	61 41.1	705
a	" 60.1416	33 52	60 19.6	706
b	" 60.1413	32 43	60 32.6	707
c	" 60.1415	33 50	60 28.5	708
d	" 60.1407	30 41	60 0.5	709

* g is the same star as g for S ξ Ursæ Majoris, see p. 210

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Chandler	D. M.
25.0	7.0
20.4	8.2
19.0	8.3
16.0	8.9
15.0	9.5

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Lander

5
Σ Ursæ Majoris

1855

	5 Σ Ursæ Majoris	12 ~~39~~ 37 35	+61 ~~60~~ 53		
d	DM 61. 1310	34 25	61 36.6		710
c	61. 1311	35 39	61 40.2		711
b	62 1248	35 15	62 5.0		712
a	61. 1318	39 42	61 55.1		713
h	61. 1319	42 11	61 36.7		714
g *	61. 1309	33 7	61 41.1	(See p. 208) =	(705)

Σ

This star is same as g for 5 Ursæ Maj. (705); See p. 208.

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Schmidt	Dm.
12.	8.5
10,	9.2
5.	9.5
	9.5
	7.8
	7.0

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Chandler

R Aquilae

	R Aquilae	18 59	+8 i.	
d	D.M. 8.3960	18 57 55	8 15.5	715
e	8.3996	19 4 15.6	8 15.5	716
f	8.3956	18 56 33.7	8 5.3	717
g	7.3987	19 3 58.4	7 53.6	718
h	8.3951	18 55 23.4	8 10.0	719
l	6.4021	18 59 20.6	6 56.3	720
m	6.4023	18 59 30.3	6 40.0	721

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Dr Ms

8.4
8.0
7.8
7.2
6.5
7.2
7.3

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Chandler

Σ Delphini 1855

	Σ Delphini	20 38	+15 52	
b	DM 16.4369	41 4.1	+16 14.4	722
d	16.4363	39 44.6	16 23.5	723
c	15.4242	38 14.5	15 52.5	724

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	Chandler	D. M.
2	15.0	8.1
3	12.8	8.0
4	10.6	9.0

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Chandler

Sawyer's Variable (U Ophiuchi)

1855

	Variable	1875		
		17 10 11	+1° 21.1'	
a	D.M. −0.3224	16 59 6	−0 43.1	725
b	" −0.3230	17 1 47	−0 54.8	726
c	" −1.3292	17 0 24	−1 29.2	727
d	" +0.3629	16 58 55	+0 53.4	728
e	" +2.3283	17 9 56	+2 19.7	729
f	" +0.3654	17 6 31	+0 30.5	730
g	" +1.3411	17 11 17	+1 52.8	731

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Chandler provisional	D. m.	U. a.
10 = 5.85	5.8	5.9
8 = 6.10	6.2	6.3
7 = 6.20	6.3	6.6
4 = 6.60	6.3	6.2
3 = 6.70	6.5	6.4
1.5 = 6.90	7.0	6.8
	6.8	6.9

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o Cati

Arg.	Arg.
~~Virg~~	50.0
e	44.0
~~B~~d	42.4
~~B~~ c	40.6
~~O~~	35.3
f	32.8
g	28.3
a	26.5
3^{11}	20.9
δ	20.8
ξ^1	19.1
μ	19.1
λ	16.1
ν	13.0
b	8.6
63	0
69	0
70	0
71	0

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From Jan Tables of Comp. Stars for Double Stars.
Arranged in order of Grade. (Northern the Pole, the Right the star.

Name Design. Dm No. R.A. 1855 Dec. R.A. 1900 Dec. Dm. Mag. Mag Mag Mag Gr. Gr. Sch. Arg. Sch. Ord.

7 Geminorum

Name

Arg. Sch. Pos. Design Dm No.

.	l	7 40 44	+24 03	4.0
.	h	h 7 42 2	+24 8.7	10.5
.	k	k		15.2
.	c	c		20.0
.	d	d		21.1
.	i	i		25.0
.	e	e		29.9

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Rejected

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α Cassiopeiae
7 Lacerta

~~Design~~

Design.

Arg. Sch. Ord.	Dm. No.	1855 R.A.	Dec.	1900 R.A.	Dec.
		h m	°	° ′	
α . .		0 32	18.4	+55 44.5	
β Ж Δ		0 1	29.6	+58 21.0	
γ . Υ		0 47	59.9	+59 55.8	
δ . .		1 16	23.3	+59 28.6	

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Vol 32

O Ce

Design

Arg.	Sch.	Oud.	Nm. Nr.	1855 R.A.	Dec.	1900 R.A.	Dec.
				h m s	° ′		
o	o	.	2	12 1.5	− 3 38.3		
β	.	β	1	36 18.6	− 18 47.0		
f	b	.	1	46 38.2	+ 20 5.8		
d	d	α	1	54 32.9	+ 2 3.8		
e	.	.	1	59 0.3	+ 22 46.5		
b3 Ceti	.	.	2	4 14.3	−	?	
33'	.	33'	2	5 19.2	+ 8 7.0		
	n		2	6 22.2	− 3 42.7		
	u		2	9 30	− 3 34.8		
	c		2	12 8	− 3 38.0		
	m		2	12 24	− 5 0.9		
	g		2	12 48	− 4 12.0		
	s		2	14 18	− 3 37.5		
b9 Ceti			2	14 31.1	− 0 16.2		
70 Ceti			2	14 49.4	− 1 33.8		
	t		2	16 21	− 4 2.2		
	v		2	16 55	− 3 54.0		
	p		2	17 4	− 3 45.5		
71 Ceti	r	71	2	17 38.9	− 3 26.3		

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Vesta (1)

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0 Ceti

Design.

Arg.	Sch.	Oud	Dm. No.	R.A. 1855	Dec.
71 Ceti	r			2 17 54	-3 54.0
3	3			2 20 27.3	-7 48.5
b				2 24	?
r	r			2 28 18.1	+4 57.6
δ	δ	δ	408	2 32 35	-0 18.2
γ	γ	γ	432	2 35 50	+2 37.4
μ	μ	μ		2 37 6.4	+9 30.0
λ	λ			2 51 57.0	+8 19.6
α	α	ν		2 54 42.1	+3 46.7
ξ				4 27 36.3	+16 18.8
				4 47 33.4	+32 55.9
d		β		5 17 7.7	+28 28
c		β		5 48 32.2	+44 55.6

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