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10.9	66
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S Cephei Phot. I.

Comp. Star = e = 9.0

Date	Lab. Obs.				Mean	Sidereal Time	Resids				J.D. 241-	Bk	Pg
97. 3. 30	0.66 b	0.65 a	0.72 a	0.91 b	−0.74	13 11.8	.00	.01	.10	.07	4014	89	28
" "	0.78 a	0.76 b	0.75 b	0.85 a	−0.78	13 23.0	.01	.01	.05	.05	"		29
3. 31	0.79 b	0.83 a	0.80 a	0.89 b	−0.82	12 50.3	.02	.02	.04	.05	4015	89	38
" "	0.90 b	0.89 a	0.61 a	0.65 b	−0.76	13 2.6	.00	.01	.02	.02	"		39
4. 1	0.65 a	0.60 b	0.81 b	0.84 a	−0.72	12 46.0	.03	.02	.01	.02	4016	89	50
" "	0.92 a	0.87 b	0.64 b	0.65 a	−0.77	12 57.5	.02	.03	.00	.01	"		57
4. 2	0.79 a	0.87 b	0.72 b	0.60 a	−0.86	12 48.8	.04	.04	.04	.03	4017	89	63
" "	0.62 b	0.63 a	0.86 a	0.83 b	−0.73	13 4.8	.00	.01	.02	.01	"		64
4. 3	0.65 b	0.66 a	0.80 a	0.83 b	−0.74	12 56.8	.01	.00	.02	.01	4018	89	69
" "	0.76 a	0.80 b	0.73 b	0.69 a	−0.74	13 8.1	.02	.02	.02	.02	"		70
4. 12	0.89 a	0.88 b	0.89 a	0.86 b	−0.88	13 49.1	.01	.00	.01	.02	4027	89	84
" "	0.88 b	0.90 a	0.95 a	0.87 b	−0.90	13 59.2	.01	.01	.04	.04	"	"	85
4. 17	0.83 a	0.96 b	1.04 b	1.00 a	−0.96	13 9.9	.07	.06	.02	.02	4032	89	111
" "	1.07 b	1.05 a	1.00 a	0.92 b	−1.0	13 26.4	.01	.01	.04	.04	"		112
4. 19	0.82 a	0.80 b	0.86 b	0.87 a	−0.84	13 24.5	.01	.01	.00	.01	4038	89	131
" "	0.90 a	0.94 b	0.73 b	0.75 a	−0.83	13 32.0	.02	.02	.01	.01	"		133
4. 20	0.77 b	0.77 a	0.90 a	0.83 b	−0.82	12 39.0	.00	.00	.04	.03	4039	89	138
" "	0.91 a	0.89 b	0.72 b	0.72 a	−0.81	12 51.0	.01	.01	.00	.00	"		139
4. 22	0.76 a	0.99 b	0.74 b	0.70 a	−0.80	13 44.5	.12	.11	.02	.02	4037	89	162
4. 24	0.99 b	0.85 a	1.04 a	1.03 b	−0.98	13 16.0	.08	.08	.00	.01	4039	89	175
	0.98 b	1.00 a	0.82 a	0.80 b	−0.90	13 27.5	.01	.01	.01	.01			176
4. 28	0.88 a	0.94 b	0.91 b	0.96 a	−0.92	12 55.0	.03	.03	.03	.02	4043	89	191
	0.94 b	0.87 a	0.81 a	0.78 b	−0.85	13 7.0	.04	.03	.01	.02			192
4. 29	1.10 a	0.89 b	0.98 b	0.98 a	−0.98	12 54.0	.10	.11	.01	.02	4044	89	205
	0.92 a	1.03 b	0.81 b	0.77 a	−0.88	13 5.0	.06	.05	.02	.02			206
4. 30	0.94 b	0.85 a	0.84 a	0.85 b	−0.87	12 55.0	.04	.05	.00	.01	4045	89	209
	0.85 b	1.05 a	0.81 a	0.89 b	−0.90	13 5.5	.10	.10	.04	.04	"		210
5. 4	1.08 a	1.10 a	0.85 b	0.92 b	−0.98	12 54.0	.01	.01	.03	.04	4049	89	215
	0.95 a	0.96 b	0.73 b	0.76 a	−0.85	13 4.0	.01	.00	.01	.02	"		216

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	Yr Sys Limits	a-b	Comp Star	Images
P	±.050	−.16	c	
				A.32
9	±.030	+.03	"	
8	±.032	−.03	c	
				A.29
9	±.012	−.27	"	
0	±.020	−.20	c	
				A.34
7	±.015	−.26	"	
3	±.038	−.22	c	
				A.22
4	±.010	−.15	"	
9	±.010	−.16	c	
				A.34
0	±.020	−.07	"	
4	±.010	.00	c	
				A.19
5	±.025	−.02	"	
1	±.042	−.12	c	
				A.10
2	±.025	−.10	"	
31	±.008	−.05	c	
				A.24
3	±.015	−.18	"	
38	±.018	−.09	c	
				A.26
39	±.005	−.18	"	
2	±.068	−.16	c	A.22
5	±.042	−.13	c	
				A.14
6	±.010	−.18	"	
9	±.028	−.03	c	
				A.20
2	±.025	−.10	c	
05	±.060	+.04	c	
				A.15
06	±.038	−.19	"	
09	±.025	−.06	c	
				A.20
10	±.070	+.10	"	
15	±.022	+.21	c	
				A.16
16	±.010	−.22	"	

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N Cephei.

Date.	Rel. East.	Mean.	Ouch.	Obs
97. 3. 30.	c 4 Var., Var. 1.5 d (Finder)	13h 2m 4.5	4	W
" " "	c 2.5 Var., Var. 2.5 d (Cor. Tel.)	13h 2m 4.2	15	"
3 31	c 3.5 Var. Var 2 d	13h 11m 4.49	4	W
" "	c 2 Var, Var 3 d	" " 4.36	15	"
" "	a 3 Var, Var 1 b	7.72	6¼	Ca
" "	a 5 Var, Var 2 b	7.73	"	R
" "	Var 5 c		"	"
4 1	c 3 Var, Var 1.5 d	13 10. 4.49	4	W
" "	o b Var 1.5 c	" " 7.92	15	"
" "	a 5.5 Var Var 2 b	7.74	6¼	R
" "	Var 4 c		"	"
4. 2	c 3 Var, Var 1.5 d	13 16. 4.49	4	W
" "	o b, Var 2 c	" " 7.49	15	"
" "	a 4 Var, Var 1 b	7.76	6¼	Ca.
" "	a 5 " " 2 b	7.76	"	R
" "	Var 4 c		"	"
4. 3	c 2.5 Var, Var 2.5 d	13 18 4.42	4	W.
" "	o b, Var 2.5 c	" " 7.46	15	"
" "	a 1 Var, Var 3 b	7.52	12 40	6¼ Ca
4. 11	a 2 " " 2 b	7.62	13 45	6¼ Ca
4. 12	a 1 Var, Var 4 b	7.66	14 00	6¼ Ca
" "	c 4 Var, Var 2 d	14 2.5 4.52	14 25	4 W
" "	o c	" " 4.15	" "	15 "
	a 6 Var, Var 2 b	7.42	15 0	6¼ R
	~~b 3.5 c~~		" "	" "
4 13	c 3.5 Var, Var 1.5 d	12 42 4.52	12 42	4 W
" "	o c	" " 4.15	" "	15 "
4.16	a 5 V, V 2 b	7.76	13 35	6¼ Ca
4.17	c 3 V, V 2.5 d	13 40 4.44	13 40	4 W
	o c	" " 4.14	" "	15 "

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Continued on leg 1K

					Sunspots.			
97. 4. 19	a 5 V, V, b			7.53	15	30	6¼ Ca
" "	V 3 c			"	"	"	" "
4. 20	c 3 V, V 1.5 d	13	0.	8.43	13	0	4 W
" "	c 1 V, V 3 d	"	"	8.32	"	"	15 "
4 21	a 6 V. V = b			7.49			6¼ Ca.
" "	V 3 c			"			" "
" 22	c 3 V. V 2 d	14	0	8.46			4 W.
" "	c 1 V.	"	"	8.2			15 "
4. 15				8.32			8¼ Se
* 4 17				8.36			8¼ Se
4 20				8.32			8¼ Se
4 24	c 1, 3 d	13	37	8.32			15 W
" "	c 3, 2 d	"	"	8.46			4 "
" "				7.59			6¼ Ca
" "				7.59			6¼ R
4 26				7.76			6¼ Ca
4. 28	, 0 c	13	17	8.15			15 W
" "	c 3 V, 1 d	"	"	8.54			4 "
" "				7.66			6¼ Ca
" "				8.36			8¼ Se
4. 29	b 1. 2 c	13	26	7.94			15 W
" "	c 3, 2 d	"	"	8.46			4 "
" "	a 2. 4 b			7.52			6¼ Ca
4. 30	b 2, 1 c	13	18	8.04			15 W
" "	c 3, 2 d	"	"	8.46			4 "
5. 4	, 0 b	13	13	7.83			15 W
" "	c 3, 2 d	"	"	8.46			4 W
" "	a 3, 2 b			7.66			6¼ Ca

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δ Cephei Plate V

Continued from fol 485

Comp. Star = e = 9.0

Date			Tabular Quantity		Mean	Gr. M. Time	Reads				Plate	Bk & Pg	
1897.	V.	5.	0.72 b 0.71 a	0.92 a 0.89 b	−0.81	12h	V70	.00	.01	.02	.01	4050	90	1
"	"	"	0.86 a 1.07 b	0.81 0.73	−0.86	13	10.0	.10	.11	.04	.04	"		2
"	V.	7	0.71 a 0.67 b	0.95 a 0.93 b	−0.82	13	4V	.02	.02	.01	.01	4052	90	34
"	"	"	0.89 b 0.88 a	0.80 0.84	−0.85	13	4V	.01	.00	.02	.02	"		35
"	V.	8	0.87 0.86	0.83 a 0.77 b	−0.83	14	4V	.01	.00	.03	.03	4053	90	39
"	"	"	0.72 a 0.79 b	0.72 b 0.72 a	−0.74	14	V8	.04	.03	.00	.00	"		40
"	V.	17	0.89 a 0.82 b	0.89 0.85	−0.86	13	3V	.03	.04	.02	.02	4062	90	46
"	"	"	0.86 0.88	0.72 0.76	−0.80	13	46	.01	.01	.02	.02	"		47
"	V	18.	1.10 a 1.13 b	0.91 0.84	−0.96	13	4	.02	.01	.11	.12	4063	90	V2
"	"	"	0.69 a 0.84 b	1.04 a 0.9V b	−0.8V	13	13	.01	.00	.06	.07	"	"	V3
"	V	19.	0.97 a 0.90 b	0.92 a 0.86 b	−0.92	13	1K	.03	.04	.03	.03	4064	90	V6
"	"	"	1.01 a 0.9V b	0.8V a 0.8K b	−0.91	13	21V	.03	.03	.01	.00	"	"	V7
"	V	22.	1.10 b 1.09 a	1.2K a 1.41 b	−1.22	13	2V	.00	.01	.06	.07	4067	90	71
"	"	"	1.30 a 1.19 b	0.92 b 0.9K a	−1.10	13	11	.06	.0V	.03	.03	"	"	72
"	V	29.	0.9V a 0.90 b	0.79 b 0.8V a	−0.87	13	21	.03	.02	.03	.03	4074	90	90
"	"	"	0.90 b 0.86 a	0.86 a 0.8K b	−0.86	13	2K	.02	.02	.01	.01	"	"	"
"	V	31.	0.72 a 0.79 b	0.6V b 0.63 a	−0.70	1K	39	.04	.03	.01	.01	4076	90	111
"	"	"	0.63 a 0.71 b	0.8K a 0.8K b	−0.7K	1K	K8	.04	.04	.00	.00	"	"	112
"	6	1.	0.76 b 0.7V a	0.7V a 0.73 b	−0.7V	13	49	.00	.01	.01	.01	4077	90	11K
"	"	"	0.73 b 0.73 a	0.70 a 0.66 b	−0.71	13	V8	.00	.00	.01	.01	"	"	11V
"	6	2	1.16 a 1.06 b	1.00 b 1.00 a	−1.06	13	1V	.0V	.0V	.00	.00	4078	90	120
"	"	"	0.9V b 0.94 a	0.8K a 0.79 b	−0.89	13	28	.01	.00	.04	.0V	"	"	121
"	6	12.	0.96 a 0.8K b	0.87 b 0.80 a	−0.87	13	27	.06	.06	.03	.04	4088	90	1K2
"	"	"	0.76 b 0.7K a	0.90 a 0.91 b	−0.82	13	K0	.01	.01	.00	.01	"	"	"
"	6	14.	1.07 a 0.99 b	0.81 b 0.82 a	−0.92	13	27	.04	.04	.01	.00	4090	90	147
"	"	"	0.82 b 0.82 a	0.82 a 0.83 b	−0.82	13	3V	.00	.00	.00	.01	"	"	"
"	6	15.	0.77 a 0.73 b	0.63 b 0.69 a	−0.70	13	3V	.02	.02	.03	.03	4095	90	15K
"	"	"	0.70 b 0.70 a	0.83 a 0.79 b	−0.76	13	43	.00	.00	.02	.02	"	"	"

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Weight	A − B	Comp. Star	Epoch
±.010	−.18	e	A.24
±.072	−.19	"	
±.015	−.25	e	A.24
±.012	−.06	"	
±.018	+.06	e	A.30
±.018	−.04	"	
±.028	+.01	e	A.25
±.015	+.13	"	
±.06	−.32	e	A.18
±.03	−.24	"	
±.032	−.0	e	A.16
±.018	+.14	"	
±.03	−.24	e	A.29
±.042	−.29	"	
±.022	−.10	e	A.22
±.017	+.03	"	
±.022	−.12	e	A.36
±.020	−.17	"	
±.008	−.02	e	A.3
±.007	+.04	"	
±.022	−.11	e	A.10
±.027	+.10	"	
±.048	−.06	e	A.24
±.008	−.17	"	
±.022	−.21	e	A.21
±.002	.00	"	
±.027	−.09	e	A.3
±.018	−.11	"	

908 −.078 8.30

908 −.084 8.24

908 .083 8.25

10.55 52.75

12.70 63.5

8.24 13 3.5 c3, 2d, 1b 13 52.5 4 15

8.24 13 24.5 c3.5, 1.5d, b1, 2c 14 23 4 15

8.30 14 5.28 c3, 2d, 0b 15 10 4 15

8.25 13 40.5 c2.5, 2d, b1, 1c 13 58 4 15

Com. on 1/h. 18-19.

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√ Cancri: Comp. Star = +19° 20 ⁴⁴/₉₀₁

April 12, 1897. Apr. 17. 1897.

G. M. Time.	Diff. Magn.	Diff. Dec.	G. M. Time.	Diff. Magn.	Diff. Dec.	G. M. Time.	Diff. Magn.	Diff. Dec.
	b −1.31	−.01		b −1.32	+.01		a +0.14	−09
	−1.30	.00			−1.34	−.01	+0.32	+.09
14 44 33	−1.30	±.005	15 25 48	−1.33	±.010	15 4 32	+0.23	±.090
	a −1.26	+.03		a −1.30	−.02		b +0.20	+.11
	−1.32	−.03			−1.29	+.01	+0.03	−.11
	−1.29	±.030			−1.28	±.015	+0.14	±.110
+.01	−1.30	±.018	+.05	−1.30	±.012	+.09	+0.18	±.100
	a −1.30	−.00					b +0.12	+.03
	−1.24	+.06					+0.06	−.03
14 54 48	−1.30	±.055				15 12 46	+0.09	±.080
	b −1.40	−.02					a −0.02	+.04
	−1.30	+.03					−0.09	−.03
	−1.38	±.025					−0.06	±.035
+.08	−1.34	±.040				−.15	+0.02	±.032
	b −1.34	.00					a +0.02	+.01
	−1.34	.00					0.00	−.01
15 2 18	−1.34	.000				15 20 32	+0.01	±.010
	a −1.19	−.03					b +0.08	+.03
	−1.13	+.03					+0.02	−.03
	−1.16	±.030					+0.05	±.030
+.18	−1.25	±.025				−.04	+0.03	±.020
	a −1.21	−.03					b +0.01	+.01
	−1.10	+.03					−0.02	−.02
15 14 18	−1.18	±.030				15 29 44	0.00	±.015
	b −1.36	.00					a +0.06	+.02
	−1.37	−.01					+0.01	−.03
	−1.36	±.005					+0.04	±.025
+.18	−1.27	±.018				+.04	+0.02	±.020

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Centre.

Apr. 17. 1897. con.

G. M. Time.		Diff. mean	Str. Dev.
	a	−0.04	+.01
		−0.06	−.01
15	42 23	−0.05	±.010
	b	−0.12	+.02
		−0.16	−.02
		−0.14	±.020
		+.09	−0.10 ±.015
	b	−0.11	−.03
		−0.06	+.02
15	07 43	−0.08	±.023
	a	−0.33	−.02
		−0.29	+.02
		−0.31	±.020
		−.23	−0.20 ±.022
	a	−0.25	+.01
		−0.26	.00
16	3 34	−0.26	±.005
	b	−0.28	+.02
		−0.25	+.01
		−0.26	±.005
		.00	−0.26 ±.010
	b	−0.33	+.01
		−0.34	.00
16	13 28	−0.34	±.005
	a	−0.36	.00
		−0.37	−.01
		−0.36	±.005
		−.02	−0.05 ±.005

G. M. Time.		Diff. mean	Str. Dev.
	a	−0.31	−.02
		−0.27	+.02
16	22 22	−0.29	±.002
	b	−0.41	+.04
		−0.49	−.04
		−0.45	±.040
		+.16	−0.37 ±.030
	b	−0.50	.00
		−0.49	+.01
16	29 49	−0.50	±.005
	a	−0.57	+.01
		−0.58	.00
		−0.58	±.005
		−.08	−0.54 ±.005
	a	−0.49	+.03
		−0.54	−.02
16	37 22	−0.52	±.020
	b	−0.46	−.01
		−0.44	+.01
		−0.45	±.010
		−.07	−0.48 ±.018
	b	−0.49	+.04
		−0.57	−.04
16	46 45	−0.53	±.040
	a	−0.47	+.03
		−0.53	−.03
		−0.50	±.030
		+.03	−0.52 ±.035

G. M. Time.		Diff. mean	Str. Dev.
	a	−0.51	+.07
		−0.65	−.07
16	55 42	−0.58	±.070
	b	−0.62	+.02
		−0.65	−.01
		−0.64	±.015
		+.06	−0.61 ±.042

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S Canari.

April 26, 1897.

Gr. M. Time	Diff. Mag.	Corr.	Gr. M. Time	Diff. Mag.	Corr.
	a −1.41	−.01		a −1.28	+01
	−1.39	+.01		−1.30	−01
12 37 6	−1.40	±.010	13 19 22	−1.29	±.010
	b −1.27	+.06		b −1.31	+05
	−1.39	−.06		−1.41	−05
	−1.33	±.060		−1.36	±.050
	+.07 −1.36	±.035		+.07 −1.32	±.030
	b −1.37	−.02		b −1.32	+.05
	−1.33	+.02		−1.42	−.05
12 44 40	−1.35	±.020	13 29 37	−1.37	±.050
	a −1.14	−04		a −1.14	00
	−1.05	+05		−1.14	00
	−1.10	±.045		−1.14	.000
	+.25 −1.22	±.035		+.23 −1.26	±.025
	a −1.14	−.01			
	−1.12	+.01			
12 56 9	−1.13	±.010			
	b −1.33	−04			
	−1.25	+04			
	−1.29	±.040			
	+.16 −1.21	±.025			
	b −1.33	−04			
	−1.25	+04			
13 7 50	−1.29	±.040			
	a −1.31	+.01			
	−1.32	.00			
	−1.32	±.005			
	+.03 −1.30	±.022			

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S Cephei.

Con. from p. 7.

Date.						
1897. 5. 5.		,0 b	13h 2m	7.83		1S-W
" " "		c3, 2d	" "	8.46		4 "
" " "		a4, 1b	14 1	7.76		6¼ Ca
" 6		a1, 1b	13 40	7.82		6¼ Ca
" " "		a7, 2b, 2c	13 36	7.89		6¼ R
" 7		c3, 1d	14 23	8.52		1S W
" " "		b1, 2c	" "	7.94		4 "
" 8		,0 b	1 10	7.83		1S-W
" " "		c3, 2d	" "	8.46		4 "
" " "		a1, 3c	1 30	7.88		6¼ Ca
" " "		1b, 2c		7.84		6¼ R
" " "			h m	2.16		4½ Sa.
" 17		c2, 2d	13 58	8.44		4 W
" " "		b1, 1c, 1.5b	" "	7.99		1S "
" " "		,1c	14 0	7.86		6¼ R
" " "		a6, 2b	14 20	7.86		6¼ Ca
" " "		2c	" "	"		" "
" 18		b1, 1c	13 18	7.96		1S. Y.
" " "		c3, 1d	" "	8.49		4. Y.
" " "		a6, 1c, 0b	13 40	7.96		6¼ C.
" " "		,1c, 1b	—	7.84		6¼ R.
" " "		c4, 1d	1 3	8.16	Snider	Sa.
" " "		,0d	" "	8.62		4½ "
" 19.		b1, 1c	13 27	7.99		1S Y.
" " "		c3, 2d	" "	8.46		4 Y.
" " "		a1, 2c	14 10	7.84		6¼ Ca.
" " "		,2b	" "	"		" "
" " "		,2c	14 [illegible]	7.84		" R.
" " "		,1b	" "	"		" "
" " "		c4, 1d	1S 10	8.56		4½ Sa.
" " "		c3, 2d	" "	8.46	Snider	"

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N. Cephei.

Date.				Magn.		
1897.	V.	22.	b 1, 1 c	13L 27m	7.99	N. H.
"	"	"	c 3, 2 d	" "	8.K6	K. "
"	"	"	a 6V, 2 c	13 0.	8.00	6½ Ca.
"	"	"	, 0 d	1V VV	8.62	8½ Se.
"	"	"	c 3, 2 d	" "	8.K6	Hunter "
"	V	23.	d 1, K e	1V 1V	8.71	8½ "
"	V	29.	b 1. 1 c	13 K0	7.99	1V H.
"	"	"	cK. 1 d	" "	8.V6	K "
"	V	31	b 1, 1 c	1V 0	7.99	V H.
"	"	"	c 3V, 1 d	" "	8.V4	K "
"	"	"	a V. 2 c	1K VV	7.83	6½ Ca.
"	"	"	. 2 b	" "	.	" "
"	6	1.	b 1, 1 c	1K 9	7.99	1V H.
"	"	"	cK. 1 d	" "	8.V6	K "
"	6	2	b 1. 1 c	13 K3.	7.99	1V H.
"	"	"	cK, 1 d	13 39.	8.V6	K "
"	"	"	a 6. 1 b	13 2V.	7.93	6½ Ca.
"	"	"	, 1 c	" "	.	" "
"	"	"	, 1 b	13 K	7.89	" R.
"	"	"	, 1 c	" "	.	" "
"	6	11.	, 1 c , 2 b	13 KV	7.84	" Ca.
"	"	"	, 1 c , 2 b	13 VK	7.84	" R.
"	6	12	cK, 1 d	13 VV	8.V6	K H.
"	"	"	0 c	" "	8.V4	1V H.
"	6	1K	c 3V, 1V d	13 K3	8.V2	K H.
"	"	"	b 1, 1 c	" "	7.99	1V H.
"	"	"	, 2 c , 3 b		7.74	6½ R.
"	"	"	, 2 c , 2 b		7.79	6½ Ca.

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S Caphei. con.

Date.				Magn.	
1897.	6.	IV.	c 3. 2 d	8.46	K Y.
"	"	"	, 0 b	7.83	IV Y.
"	"	"	, 2 b	7.79	6½ Ca.
"	"	"	, 2 c		" "
"	6	16.	a V. V, 3 c	7.81	" Ca.
"	"	"	, ~~2 c~~		" "
"	"	"	, 2 b		" "
"	6	18	c 3, 2 d	8.46	K Y.
"	"	"	, 0 b	7.83	IV "
"	"	"	, 0 b	7.89	6½ Ca.
"	"	"	, 2 c		" "
"	6	21	c 2, 3 d	8.36	K Y.
"	"	"	, 0 b	7.83	IV Y.
"	"	"	, 2 b	7.79	6½ Ca.
"	"	"	, 2 c		" "
"	6	22.	c 3, 2 d	8.46	K Y.
"	"	"	, 0 b	7.83	IV Y.
"	6	23.	c 3 V, 1 V d	8.52	K Y.
"	"	"	, 0 b	7.83	IV Y.
"	6	23	, 1 c	7.84	6¼ Ca.
"	"	"	, ~~2 b~~		" "
"	6	24	c 3.5, 1.5 d	8.52	4" N.
"	"	"	0 b	7.83	13" N.
"	6	25	c 3 , 1.5 d	8.49	4" N.
"	"	"	b 1 , 1 c	7.99	15" N.
"	6	26	c 3.5, 1.5 d	8.52	4" N.
"	"	"	b 1 , 1 c	7.99	15" N.
"	6	28	c 4, 1 d	8.56	4" N.
"	"	"	, 0 c	8.15	15" N.

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S Cephei. (con)

Date.				Gr. M. Time	Magn	Resids		
1897	6	30	c3, 1.5d		8.49			4" N.
"	"	"	, 0c		8.15			15" N.
"	7	4.	c3, 1.5d		8.49			4" N.
"	"	"	0c		8.15			15" N.
"	7	9	c2.5, 2d		8.44			4" N.
"	"	"	0c		8.15			15" N.
"	7	16	c3, 1d	13.6	8.52	.07	.06	4 N.
"	"	"	c1, 3d	"	8.26	.11	.12	15 N.
"	7	30	c4, 0.5d	13.2	8.59	.04	.04	4 N.
"	"	"	c2.5, 2.5d	"	8.42	.02	.01	15 N.
"	7	30	b2, 0c	16.1	8.09	.06	.06	6 R.
"	7	31	c4, 0.5d	13.7	8.59	.04	.04	4 N.
"	"	"	c3, 1d	"	8.52	.07	.06	15 N.
"	9	8	d3, 1.5e	13.6				15 N.
"	9	9	e1, 3f	13.5				15 N.
"	9	10	e1.5, 2.5f	13.5				15 N.
"	9	13	e2, 2f	13.5				15 N.
"	"	"	e2, 2f	"				4 N.
"	9	14	e3, 1f	13.5				15 N.
"	"	"	e2.5, 1f	"				4 N.

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S Cephei. Phot. J.

Con. from pp. 8-9.

Comp. Star = a = 9.0 8

Date.	Tabular Quantity.				Mean.	Sr. Mn. Time.	Resids.				J. D.	Bk. & Page.		
1897. 6. 18	1.02 a	0.92 v	0.98 b	0.91 v	0.96 v	13 h	29 v	.02	.02	.02	.01	2461 v 4094 v	90	184.
" " "	0.97 b	0.92 v	0.77 a	0.72 v	0.85 v	13	50.0	.01	.02	.03	.02	"	"	"
" 6 21.	1.33 a	1.19 v	1.30 b	1.13 v	1.24 v	13	19 v	.07	.07	.06	.09	4093 v	90	199.
" " "	1.14 b	1.14 v	0.90 a	0.93 v	1.03 v	13	27 v	.00	.00	.02	.01	"	"	"
" 6 22	0.88 b	0.92 v	1.07 a	1.01 v	0.97 v	13	19.5	.02	.02	.03	.03	4098 v	90	213
" " "	1.01 d	0.99 v	0.80 b	0.88 v	0.92 v	13	31.5	.01	.01	.04	.04	"	"	214
" 6 23	1.11 a	1.06 v	1.26 b	1.1 v	1.1 v	13	23 v	.03	.12	.06	.0 v	4099 v	91	8. v
" " "	1.00 b	1.06 v	0.6 v	0.7 a	0.8 v	13	42.0	.03	.03	.07	.06	"	"	"
" 6 24.	0.69 a	0.73 v	0.91 b	0.76 v	0.7 v	13	37.0	.02	.02	.07	.04	4100 v	91	14 v
" " "	0.80 b	0.79 v	0.6 v	0.69 a	0.73 v	13	46.0	.00	.01	.02	.03	"	"	"
" 6 25.	0.66 a	0.72 v	0.8 b	0.6 v	0.62 v	14 v	32 v	.03	.03	.04	.04	4101 v	91	22 v
" " "	0.60 b	0.7 v	0.7 a	0.76 v	0.6 v	14 v	47.0	.02	.03	.01	.01	"	"	"
" 6 26.	1.07 a	1.1 v	1.32 b	0.91 v	1.1 v	13	22.0	.0 v	.06 v	.20	.21	4102 v	91	27 v
" " "	1.03 b	0.79 v	0.90 a	0.86 v	0.90 v	13	32.0	.12	.12	.02	.02	"	"	"
" 6 28.	0.89 a	0.87 v	1.02 b	0.94 v	0.9 v	13	24.0	.01	.01	.02	.02	4104 v	91	42 v
" " "	1.02 b	0.9 v	0.87 a	0.7 v	0.90 v	13	33 v	.0	.0	.06	.06	"	"	"
" 6 30	0.97 a	0.89 v	0.86 b	0.84 v	0.89 v	13	24.0	.04	.04	.01	.01	4106 v	91	46 v
" " "	0.83 b	0.83 v	0.78 a	0.82 v	0.82 v	13	34.5	.00	.00	.02	.02	"	"	"
" 7 2	0.63 a	0.61 v	0.79 b	0.8 v	0.72 v	14 v	30 v	.01	.01	.03	.02	4114 v	91	84 v
" " "	0.79 b	0.7 v	0.61 a	0.70 v	0.71 v	14 v	40.0	.03	.02	.0 v	.0	"	"	"
" 7 9.	0.67 a	0.67 v	0.62 b	0.5 v	0.64 v	13	49 v	.00	.00	.02	.03	4115 v	91	88 v
" " "	0.61 b	0.4 v	0.67 a	0.73 v	0.62 v	13	40.0	.07	.07	.03	.03	"	"	"
" 7 14.	0.77 a	0.72 v	0.62 b	0.62 v	0.6 v	13	23.0	.03	.02	.00	.00	4121 v	91	100 v
" " "	0.56 b	0.4 v	0.6 v	0.6 a	0.5 v	13	46 v	.04	.04	.01	.02	"	"	"
" 7 16.	0.8 a	0.8 v	0.97 b	0.91 v	0.90 v	13	11 v	.02	.03	.03	.03	4122 v	91	109 v
" " "	1.07 b	0.83 v	0.5 a	0.60 v	0.77 v	13	21.0	.12	.12	.01	.01	"	"	"
" 7 21.	0.86 a	0.8 v	0.96 b	0.97 v	0.92 v	13	5 v	.01	.01	.00	.01	4127 v	91	122 v
" " "	0.92 b	0.91 v	0.59 a	0.6 v	0.77 v	13	13 v	.00	.01	.03	.03	"	"	"

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Av. dev.	A-B.	Comp. Star.	Mean.
±.018	.08	e	8.18
±.020	.20	"	
±.078	.05	e	7.94
±.008	.22	"	
±.025	.14	e	8.14
±.025	.16	"	
±.040	+.12	e	8.07
±.048	+.31	"	
±.048	+.13	e	8.32
±.018	+.18	"	
±.018	−.13	e	8.43
±.018	−.19	"	
±.130	.00	e	8.07
±.070	.03	"	
±.018	.12	e	8.16
±.018	.17	"	
±.025	.08	e	8.22
±.010	.03	"	
±.018	+.20	e	8.36
±.038	+.10	"	
±.018	−.07	e	8.48
±.018	−.16	"	
±.018	−.12	e	8.44
±.028	−.18	"	
±.028	.08	e	8.24
±.068	.36	"	
±.008	.09	e	8.24
±.018	.30	"	

Com. on p. 42.

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April 16/97. U Cephei. Plot. I.

Gr. M. T.		Diff. Magn.	Av. Dev.	Gr. M. T.		Diff. Magn.	Av. Dev.	Gr. M. T.		Diff. Magn.	Av. Dev.
	b	-1.76	-.06		b	-1.58	-.02		b	-1.67	-.01
		-1.63	+.07			-1.54	+.02			-1.66	.00
13	7 36	-1.70	±.063	13	02 46	-1.56	±.020	14	36 16	-1.66	±.005
	a	-1.50	+.01		a	-1.45	+.01		a	-1.60	-.04
		-1.57	-.01			-1.48	+.02			-1.52	+.04
		-1.56	±.010			-1.46	±.015			-1.56	±.040
	+.14	-1.63	±.038		+.10	-1.57	±.018		+.10	-1.61	±.022
	a	-1.55	+.01		a	-1.46	.00		a	-1.54	+.02
		-1.57	-.01			-1.47	-.01			-1.58	-.02
13	16 16	-1.56	±.010	14	10 32	-1.46	±.005	14	44 38	-1.56	±.020
	b	-1.53	-.03		b	-1.54	+.03		b	-1.51	-.01
		-1.47	+.03			-1.60	-.03			-1.50	.00
		-1.50	±.030			-1.57	±.030			-1.50	±.005
	-.06	-1.53	±.020		+.11	-1.52	±.018		-.06	-1.53	-.012
	b	-1.51	+.03		b	-1.53	-.01		b	-1.42	+.06
		-1.58	-.04			-1.52	.00			-1.54	-.06
13	33 37	-1.54	±.035	14	18 26	-1.52	±.003	14	54 2	-1.48	±.060
	a	-1.64	-.02		a	-1.49	.00		a	-1.52	+.01
		-1.61	+.01			-1.49	.00			-1.54	-.01
		-1.62	±.015			-1.49	.000			-1.53	±.010
	-.08	-1.58	±.025		+.03	-1.50	±.002		-.05	-1.50	±.035
	a	-1.49	+.03		a	-1.48	+.04		a	-1.51	+.03
		-1.56	-.04			-1.56	-.04			-1.58	-.04
13	41 48	-1.52	±.035	14	28 32	-1.52	±.040	15	6 19	-1.54	±.035
	b	-1.52	-.01		b	-1.63	+.01		b	-1.61	+.01
		-1.50	+.01			-1.60	-.01			-1.62	.00
		-1.51	±.010			-1.64	±.010			-1.62	±.005
	-.01	-1.52	±.022		+.12	-1.58	±.023		+.08	-1.58	±.020

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U Cephei. Phot. I.

Gr. m. I.	Diff. magn.	Sto. Dev.	Gr. m. I.	Diff. magn.	Sto. Dev.	Gr. m. I.	Diff. magn.	Sto. Dev.
	b −1.59	+.01		b −1.61	−.05			
		−1.61	−.01			−1.52	+.04	
15 15 1		−1.60	±.010	15 53 14		−1.56	±.045	
	a	−1.50	+.04		a	−1.60	−.05	
		−1.57	−.03			−1.57	+.05	
		−1.54	±.035			−1.55	±.050	
	+.06	−1.57	±.022		+.01	−1.56	±.048	
		−1.50	+.05					
	a	−1.54	−.04					
15 24 10		−1.50	±.045					
	b	−1.46	.00					
		−1.45	+.01					
		−1.46	±.005					
	−.04	−1.48	±.025					
	b	−1.44	.00					
		−1.44	.00					
15 34 25		−1.44	.000					
	a	−1.60	−.01					
		−1.58	+.01					
		−1.59	±.010					
	−.15	−1.52	±.005					
	a	−1.61	+.02					
		−1.65	−.02					
16 44 8		−1.63	±.020					
	b	−1.58	−.02					
		−1.54	+.02					
		−1.56	±.020					
	−.07	−1.60	±.020					

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U Cephei.

April 21, 1897.

Gr M Time	Diff Magn	Diff Dev	Gr M Time	Diff Magn	Diff Dev	Gr M Time	Diff Magn	Diff Dev
h m s			h m s			h m s		
b	−1.46	+02	b	−1.50	−02	b	−1.52	−02
	−1.50	−02		−1.45	+03		−1.48	+02
12 ~~23~~ 26 30	−1.48	±.020	13 ~~3~~ 6 48	−1.48	±.025	13 ~~45~~ 48 2	−1.50	±.020
a	−1.56	+02	a	−1.69	−04	a	−1.58	−01
	−1.59	−01		−1.61	+04		−1.56	+01
	−1.58	±.015		−1.65	±.040		−1.57	±.010
	−.10	−1.53 ±.018		−.17	−1.56 ±.032		−.07	−1.54 ±.015
a	−1.51	+01	a	−1.58	+02	a	−1.59	−04
	−1.54	−02		−1.62	−02		−1.57	+04
12 ~~31~~ 34 1	−1.52	±.015	13 ~~12~~ 15 9	−1.60	±.020	13 ~~56~~ 59 41	−1.55	±.040
b	−1.52	+00	b	−1.63	−.01	b	−1.48	−01
	−1.62	−05		−1.61	+.01		−1.46	+01
	−1.57	±.050		−1.62	±.010		−1.47	±.010
	+.05	−1.54 +.032		+.02	−1.61 ±.015		−.08	−1.51 −.025
b	−1.52	−02	b	−1.51	+05			
	−1.49	+01		−1.61	−05			
12 ~~40~~ 43 37	−1.50	±.015	13 ~~20~~ 23 34	−1.56	±.050			
a	−1.65	+00	a	−1.65	−01			
	−1.74	−04		−1.62	+02			
	−1.70	±.045		−1.64	±.015			
	−.20	−1.60 ±.030		−.08	−1.60 ±.032			
a	−1.69	−01	a	−1.60	−03			
	−1.66	+02		−1.54	+03			
12 ~~51~~ 54 18	−1.68	±.015	13 ~~29~~ 32 24	−1.57	±.030			
b	−1.55	−.07	b	−1.53	+.01			
	−1.41	+.07		−1.54	00			
	−1.48	±.070		−1.54	±.005			
	−.20	−1.58 ±.042		−.03	−1.56 ±.018			

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S Cancri.

May 6, 1897.

Continued

Gr M Time		Diff Magn	Cor Dec
hr m s			
	a	+0.88	−01
		+0.90	+01
12 52 11		+0.89	±.010
	b	+0.73	+01
		+0.71	−01
		+0.72	±.010
		+.17	+0.80 ±.010
	b	+0.70	00
		+0.71	+01
13 1 19		+0.70	±.005
	a	+0.60	−02
		+0.64	+02
		+0.62	±.020
		−.08	+0.66 ±.012
	d	+0.55	−01
		+0.58	+02
13 10 31		+0.56	±.015
	b	+0.50	+01
		+0.48	−01
		+0.49	±.010
		+.07	+0.52 ±.012
	b	+0.36	−03
		+0.42	+03
13 19 17		+0.39	±.030
	a	+0.61	−01
		+0.63	+01
		+0.62	±.010
		+.23	+0.50 ±.020

Gr M Time		Diff Magn	Cor Dec
hr m s			
	a	+0.57	+01
		+0.56	00
13 29 1		+0.56	±.005
	b	+0.41	−03
		+0.46	+02
		+0.44	±.025
		+.12	+0.50 ±.015
	b	+0.48	+02
		+0.45	−01
13 37 6		+0.46	±.015
	a	+0.44	+03
		+0.38	−03
		+0.41	±.030
		−.05	+0.44 ±.015
	a	+0.42	+01
		+0.40	−01
13 46 11		+0.41	±.010
	b	+0.20	00
		+0.20	00
		+0.20	.000
		+.21	+0.30 ±.005
	b	+0.20	+04
		+0.11	−05
13 55 0		+0.16	±.045
	a	+0.41	+03
		+0.35	−03
		+0.38	±.030
		+.22	+0.27 ±.038

Gr M Time		Diff Magn	Cor Dec
hr m s			
	a	+0.28	00
		+0.27	−01
14 9 42		+0.28	±.005
	b	+0.22	+02
		+0.19	−01
		+0.20	±.015
		+.08	+0.24 ±.010
	b	+0.14	−01
		+0.16	+01
14 18 21		+0.10	±.010
	a	+0.09	−01
		+0.10	00
		+0.10	±.005
		−.05	+0.12 ±.008
	a	+0.10	00
		+0.10	00
14 27 40		+0.10	±.000
	b	−0.22	−07
		−0.08	+07
		−0.15	±.070
		+.25	−0.02 ±.035
	b	−0.08	+04
		−0.16	−04
14 37 2		−0.12	±.040
	a	+0.13	+01
		+0.11	−01
		+0.12	±.010
		+.24	±0.00 +.025

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~~N~~ Cancri.

May 6, 1897

G M Time	Diff Mag	Diff Dec	G M Time	Diff Mag	Diff Dec	G M Time	Diff Mag	Diff Dec
	a +0.06	-03		a -0.21	-03		a -0.68	00
		+12			+03			-67 +01
14 49 56	+0.09	±.030	15 23 43	-0.18	±.030	16 10 10	-0.68	±.015
	b -0.08	00		b -0.55	00		b -0.72	+01
		-07 +01			-0.50	00		-0.74 -01
	-0.08	±.005		-0.55	.000		-0.73	±.010
+.17	0.00	±.018	+.37	-0.36	±.015	+.05	-0.70	±.008
	b -0.13	-01		b -0.50	-02		b -0.74	00
		-12 00			-0.51 +02			-0.74 00
14 56 28	-0.12	±.005	15 36 53	-0.53	±.020	16 20 38	-0.74	.000
	a -0.12	+01		a -0.30	+.03		a -0.71	-01
		-0.14 -01			-0.41 -.03			-0.68 +02
	-0.13	±.010		-0.38	±.030		-0.70	±.013
-.01	-0.12	±.008	+.15	-0.46	+.025	+.04	-0.72	±.008
	a -0.16	-02		-0.32	+02		a -0.76	-03
		-0.13 +01		a	-037 -03			-0.68 +02
15 6 29	-0.14	±.015	15 49 46	-0.34	±.025	16 28 20	-0.72	±.025
	b -0.40	+02		b -0.50	-02		b -0.75	-05
		-0.44 -02			-0.46 +02			-0.66 +04
	-0.42	±.020		-0.48	±.020		-0.70	±.045
+.28	-0.28	±.022	+.14	-0.41	±.022	-.02	-0.71	±.035
	b -0.46	-02		b -0.42	+.01		b -0.76	-01
		-0.42 +02			-0.44 -01			-0.74 +01
15 14 58	-0.44	±.020	15 58 59	-0.43	±.010	16 39 8	-0.75	±.010
	a -0.13	+03		a -0.59	+.01		a -0.72	+04
		-020 -04			-062 -02			-0.81 -05
	-0.16	±.035		-0.60	±.015		-0.76	±.045
+.28	-0.30	±.028	-.17	-0.52	±.012	-.01	-0.76	±.028

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S Cancri

May 6, 1897.

G M Time	Diff Asc	Diff Dec
	a −0.78	+05
	−0.88	−05
16 47 11	−0.83	+050
	b −0.87	+01
	−0.88	00
	−0.88	+.005
+.05	−0.86	+.028

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May 22. 1897.

Gr. M. T.	Diff. Magn.	Av. Dev.	Gr. M. T.	Diff. Magn.	Av. Dev.	Gr. M. T.	Diff. Magn.	Av. Dev.
b	-0.36	-.07	b	+0.47	+.01	b	+0.90	-.02
	-0.22	+.07		+0.47	-.01		+0.94	+.02
1h 2m 2.	-0.29	±.070	1h 43 26.	+0.46	±.010	1h 23 42.	+0.92	±.020
a	-0.43	-.07	a	+0.41	-.02	a	+0.60	-.01
	-0.39	+.07		+0.47	+.02		+0.62	+.01
	-0.46	±.070	-.03	+0.43	±.020		+0.61	±.010
-.17	-0.32	±.070		+0.44	±.015	-.31	+0.76	±.015
a	-0.34	-.07	a	+0.26	-.14	a	+0.42	.00
	-0.20	+.07		+0.43	+.13		+0.42	.00
1h 16m 29.	-0.27	±.070	1h 42 31.	+0.40	±.135	1h 31 30.	+0.42	.00
b	-0.22	.00	b	+0.62	+.01	b	+0.71	.00
	-0.21	+.01		+0.63	-.01		+0.71	.00
-.05	-0.22	±.005	-.24	+0.64	±.010		+0.71	.00
	-0.24	±.038		+0.52	±.072	-.13	+0.64	.00
b	-0.02	-.02	b	+0.54	-.04			
	-0.03	+.03		+0.61	+.03			
1h 23m 55.	-0.06	±.025	1h 7 39.	+0.54	±.035			
a	+0.07	-.03	a	+0.73	-.03			
	+0.14	+.04		+0.78	+.02			
+.16	+0.10	±.035		+0.76	±.025			
	+0.02	±.030	+.18	+0.67	±.030			
a	+0.12	-.04	a	+0.62	-.05			
	+0.24	+.04		+0.74	+.05			
1h 31m 5.	+0.20	±.080	1h 1h 20.	+0.73	±.050			
b	+0.32	+.04	b	+0.92	-.02			
	+0.25	-.03		+0.95	+.01			
-.08	+0.24	±.035		+0.94	±.015			
	+0.24	±.058	-.21	+0.84	±.032			

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S Cancri. Phot. T.

May 25. 1897.

Gr. M. T.	Diff. Magn.	Av. Dev.	Gr. M. T.	Diff. Magn.	Av. Dev.	Gr. M. T.	Diff. Magn.	Av. Dev.
b	+0.33	+.03	b	-0.09	-.05	b	-0.27	-.03
	+0.28	-.02		+0.02	+.06		-0.21	+.03
13 21 29	+0.30	±.025	14 2 2	-0.04	±.055	14 37 20	-0.26	±.030
a	+0.36	+.03	a	+0.08	.00	a	-0.16	+.06
	+0.30	-.03		+0.09	+.01		-0.28	-.06
	+0.33	±.030		+0.08	±.005		-0.22	±.060
+.03	+0.32	±.028	+.12	+0.02	±.030	+.02	-0.23	±.045
a	+0.43	+.04	a	-0.05	-.01	a	-0.19	+.02
	+0.35	-.04		-0.02	+.02		-0.35	-.02
13 30 18	+0.39	±.040	14 8 49	-0.04	±.015	14 53 43	-0.27	±.080
b	+0.06	+.02	b	-0.30	.00	b	-0.32	.00
	+0.03	-.01		-0.29	+.01		-0.32	.00
	+0.04	±.015		-0.30	±.005		-0.32	.000
+.35	+0.22	±.028	+.26	-0.17	±.010	+.11	-0.32	±.040
b	+0.01	+.07	b	-0.24	+.02	b	-0.29	+.09
	-0.13	-.07		-0.29	-.03		-0.47	-.09
13 41 44	-0.06	±.070	14 17 19	-0.26	±.025	15 6 43	-0.32	±.090
a	+0.03	+.01	a	-0.22	+.04	a	-0.24	+.06
	+0.01	-.01		-0.30	-.04		-0.36	-.06
	+0.02	±.010		-0.26	±.040		-0.30	±.060
+.08	-0.02	±.040	.00	-0.26	±.032	+.08	-0.34	±.073
a	+0.04	+.03	a	-0.29	-.01	a	-0.27	+.03
	-0.02	-.04		-0.24	+.02		-0.33	-.03
13 51 22	+0.02	±.035	14 26 50	-0.26	±.015	15 13 36	-0.30	±.030
b	-0.03	-.03	b	-0.33	-.04	b	-0.60	-.01
	+0.02	+.02		-0.24	+.04		-0.58	+.01
	0.00	±.025		-0.24	±.045		-0.59	±.010
+.02	+0.01	±.030	+.02	-0.23	±.030	+.29	-0.44	±.020

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May 2v. (29).

Gr. m. T.	Diff. magn.	Av. dev.	Gr. m. T.	Diff. magn.	Av. dev.	Gr. m. T.	Diff. magn.	Av. dev.
	b −0.70	−.04						
	−0.61	+.01						
1v 2v 12.	−0.66	±.045						
	a −0.67	−.07						
	−0.72	+.02						
	−0.60	±.075						
+.06	−0.63	±.060						
	a −0.62	−.01						
	−0.60	+.01						
1v 3f 32.	−0.61	±.010						
	b −0.42	−.02						
	−0.40	+.02						
	−0.42	±.020						
+.21	−0.72	±.015						

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U Cephei.

June 11. [1897.]
Phot. 7.

Gr. m. T.	Diff. hyp.	Obs. Ser.	Gr. m. T.	Diff. hyp.	Obs. Ser.	Gr. m. T.	Diff. hyp.	Obs. Ser.
	a +0.64	-.04		a +0.53	-.04		a +0.64	.00
	+0.71	+.03		+0.61	+.04		+0.63	-.01
13 39 23.	+0.68	±.035	1K 19 53.	+0.57	±.040	1K 53 9.	+0.64	±.005
13 31 Eg.	+0.79	-.01	13 31 Eg.	+0.43	.00	13 31 Eg.	+0.47	+.03
+0 7 34.	+0.80	.00	+0 KA K.	+0.43	.00	+1 21 20.	+0.41	-.03
+0.00 53 b	+0.80	±.005	+0.033K b	+0.43	.000	+0.056 5 b	+0.42	±.030
-.12	+0.74	1.020	-.26	+0.70	±.020	-.20	+0.74	±.018
	b +0.46	+.01		b +0.70	-.06		b +0.42	-.02
	+0.44	-.01		+0.42	+.06		+0.47	+0.3
13 53 3.	+0.47	±.010	1K 30 32.	+0.76	±.06	1K 1 59.	+0.45	±.025
13 31 Eg.	+0.76	+.02	13 31 Eg.	+1.02	+.10	13 31 Eg.	+0.67	-.03
+0 21 1K.	+0.73	-.01	+0 54 K3.	+0.42	-.10	+1 30 10.	+0.74	+.04
+0.0147 a	+0.74	±.015	+0.0402 a	+0.92	±.100	+0.0626 a	+0.70	±.035
-.11	+0.40	±.012	+.16	+0.45	±.080	-.14	+0.77	±.030
	a +0.62	-.06		a +0.46	+.04			
	+0.40	+.06		+0.77	-.05			
1K 0 21.	+0.74	±.060	1K 37 KA.	+0.42	±.045			
13 31 Eg.	+0.57	-.05	13 31 Eg.	+0.52	-.02			
+0 2A 32.	+0.67	+.05	+1 5 59.	+0.57	+.03			
+0.0192 b	+0.60	±.050	+0.0452 b	+0.54	±.025			
+.14	+0.67	±.055	+.26	+0.62	±.035			
	b +0.71	+.06		b +0.67	.00			
	+0.59	-.06		+0.67	.00			
1K A 1V.	+0.67	±.060	1K KV KA.	+0.67	.00			
13 31 Eg.	+0.54	-.02	13 31 Eg.	+0.62	+.04			
+0 36 26.	+0.52	+.02	+1 13 59.	+0.60	-.04			
+0.025 3 a	+0.56	±.020	+0.0516 a	+0.64	±.040			
-.09	+0.60	±.040	-.01	+0.64	±.020			

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Transit of Jupiters with Prof. T. Wolfs.

1897.

Date.	Tabular Quantity.				Diff. Longn.	Gr. m. Time.	Resids.				J. D. 24[illegible]	Bk. & page.
'97 - Nov. 29.	+0.97	+0.92	+0.93	+0.99	+0.97	16	47.0	.01	.00	.03	.03	4074	90. 107
" " "	+0.85	+0.91	+0.96	+0.85	+0.90	16	57.0	.05	.05	.06	.06	"	" "
" 6	1K. +1.02	+1.32	+0.99	+1.29	+1.17	1K	40.5	.12	.12	.15	.15	4090	90 151
" " "	+1.37	+1.12	+1.03	+1.23	+1.19	1K	51.3	.12	.10	.10		"	" "
" 6	1V. +1.11	+1.11	+0.91	+1.00	+1.04	1K	27.0	.00	.00	.05	.04	4091	90 156
" " "	+1.01	+0.92	+1.02	+1.02	+1.01	1K	36.5	.01	.02	.00	.00	"	" "
" 6	16. +1.15	+1.20	+1.02	+0.92	+1.09	1V	6.6	.03	.02	.02	.02	4092	90 172
" " "	+1.02	+1.06	+1.04	+1.05	+1.06	1V	14.6	.01	.01	.02	.01	"	" "
" 6	18. +1.31	+1.35	+1.12	+1.19	+1.24	16	35.5	.02	.02	.04	.03	4094	90 194
" " "	+1.14	+1.19	+1.13	+1.12	+1.16	16	43.0	.02	.03	.03	.02	"	" "
" " "	+1.12	+1.19	+0.99	0.99	+1.08	16	51.0	.04	.03	.00	.00	"	" "
" 6	21. +1.30	+1.26	+1.24	+1.30	+1.28	1K	20.5	.02	.02	.03	.03	4097	90 202
" " "	+1.27	+1.32	+1.17	+1.15	+1.38	1K	24.0	.03	.02	.01	.01	"	" "
" 6	22. +1.46	+1.35	+1.37	+1.45	+1.49	1V	44.0	.04	.05	.03	.03	4098	90 216
" " "	+1.44	+1.49	+1.40	+1.38	+1.44	1V	55.5	.00	.01	.01	.01	"	" "
" 6	23. +1.53	+1.50	+1.46	+1.62	+1.53	16	14.0	.01	.02	.07	.07	4099	91 10
" " "	+1.62	+1.57	+1.31	+1.39	+1.48	16	26.0	.02	.03	.04	.04	"	" "
" 6	24. +1.49	+1.55	+1.60	+1.49	+1.50	1K	32.0	.02	.02	.06	.05	4100	91 17
" " "	+1.57	+1.48	+1.61	+1.55	+1.56	1K	55.0	.05	.04	.01	.02	"	" "
" 6	25. +1.68	+1.55	+1.63	+1.55	+1.60	16	19.5	.06	.07	.04	.04	4101	91 25
" " "	+1.66	+1.52	+1.66	+1.59	+1.62	16	28.5	.04	.04	.04	.03	"	" "
" 6	26. +1.74	+1.74	+1.62	+1.74	+1.73	16	24.0	.02	.02	.04	.04	4102	91 39
" " "	+1.85	+1.73	+1.57	+1.57	+1.68	16	36.0	.06	.06	.00	.00	"	" "
" 7	6. +3.03	+3.04	+3.61	+3.86	+3.89	1K	22.0	.01	.00	.13	.12	4112	91 71
" " "	+3.87	+3.82	+3.21	+3.13	+3.80	1K	31.0	.03	.02	.04	.04	"	" "
" 7	7. +3.06	+3.17	+3.30	+3.25	+3.20	1V	7.5	.06	.05	.02	.03	4113	91 77
" " "	+3.29	+3.25	+3.25	+3.06	+3.22	16	7.0	.02	.02	.09	.10	"	" "
" 7	8 +3.44	+3.48	+3.36	+3.30	+3.40	13	57.5	.02	.02	.00	.01	4114	91 79
" " "	+3.46	+3.31	+3.32	+3.37	+3.32	1K	57.0	.06	.07	.00	.01	"	" "

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1897phae.proj..4460

Comparison Stars for Iapetus.

Design	Mean Ok. Mag.	Resids.	
-16 4114	0.40	08 05 04	7.15
-16 4120	1.03	10 16 07	7.72
-16 4116	2.15	09 01 07	8.90
-16 4122	2.52	01 09 10	9.27
-16 4129	2.79	13 34 46 *	9.54
-16 4144	2.59	02 03 02	9.34
-17 4395	2.98	01 12 14	9.73
-16 4138	2.81	12 02 10	9.56
-17 4413	2.98	03 07 03	9.73
17 4302			7.28

* Saturn near

Av. Dec. reduced -16° 4129 $\frac{148}{24} = \pm 0.06$

" " " " " $\frac{241}{27} = \pm 0.09$

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Diff. A-B.	Comp. Star.			Magn. Star.	Intrapolated	Mean. Intrapolated.
.02	S.D.	-17°	4413	9.2	9.78	10.70	10.66
.00	"	"	"	"	"	10.63	
.06	"	-16°	K13A	9.2	9.76	10.73	10.74
.11	"	"	"	"	"	10.74	
.14	"	-17°	K39	9.2	9.73	10.77	10.76
.02	"	"	"	"	"	10.74	
.18	"	-16	K136	9.2	9.76	10.64	10.64
.01	"	"	"	"	"	10.62	
.17	"	-16°	4129	9.0	9.74	10.78	10.70
.00	"	"	"	"	"	10.70	
.17	"	"	"	"	"	10.62	
.01	"	-16°	4122	9.0	9.27	10.74	10.60
.16	"	"	"	"	"	10.62	
.02	"	"	"	"	"	10.76	10.74
.09	"	"	"	"	"	10.71	
.03	"	"	"	"	"	10.81	10.78
.24	"	"	"	"	"	10.74	
.07	"	"	"	"	"	10.77	10.80
.04	"	"	"	"	"	10.83	
.03	"	"	"	"	"	10.87	10.84
.00	"	"	"	"	"	10.89	
.06	"	"	"	"	"	11.00	10.92
.22	"	"	"	"	"	10.94	
.30	"	-16	K120	8.0	7.78	11.67	11.72
.33	"	"	"	"	"	11.78	
+.16	"	"	"	"	"	11.98	11.99
+.18	"	"	"	"	"	12.00	
-.12	"	"	"	"	"	12.18	12.17
.00	"	"	"	"	"	12.16	

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Measts. of Saturn with Refl. T. (Cr. ob.)

1897.

Date.			Tabular Quantity.	Diff. Magn.	Sr. var. Time.	Resid.	J.D.	Bk.	Page.
'97. 7. 6.			+3.26 b +3.[illegible] +3.11 a +3.20 +3.26	14	K1.[illegible].10 .09 .0[illegible] .0[illegible]	K114	91	A1	
" 7. 14.			+[illegible].27 a +[illegible].16 +[illegible].26 b +[illegible].27 +[illegible].2[illegible]	14	K0.0 .0[illegible] .06 .00 .01	K121	91	102	
" " "			+[illegible].0[illegible] b +[illegible].26 +[illegible].12 a +[illegible].1[illegible]	14	[illegible]30 .11 .11 .03 .03	"	"	"	
" 7	16		+3.79 b +3.63 +3.36 a +3.[illegible]+3.[illegible]2	14	7[illegible] .02 .02 .0[illegible] .03	K122	91	112	
" " "			+3.2[illegible] a +3.3[illegible] +3.[illegible] b +3.6 +3.[illegible]2	14	3[illegible]0 .03 .0[illegible] .10 .09	"	"	"	
" " "			+3.41 a +3.9[illegible] +[illegible].11 b +[illegible].0[illegible]+3.9[illegible]	14	16.0 .0[illegible] .06 .0[illegible] .0[illegible]	"	"	113	
" " "			+[illegible].31 b +[illegible].1[illegible] +3.7[illegible] a +3.[illegible]+[illegible].02	14	2[illegible]0 .02 .0[illegible] .02 .02	"	"	"	
" "	21		+3.72 b +3.[illegible]2 +3.3[illegible] a +3.[illegible]9 +3.[illegible]	14	14.0 .10 .10 .10 .11	K123	91	120	
" " "			+3.[illegible]8 a +3.4[illegible] +3.[illegible]4 b +3.[illegible]0 +3.62	14	24.0 .12 .11 .0[illegible] .0[illegible]	"	"	"	
" "	31		+3.09 b +3.14 +3.12 a +3.09 +3.11	14	40.0 .03 .02 .02 .01	4137	91	159	
" " "			+2.99 a +3.00 +2.97 b +3.00 +2.99	14	49.0 .01 .00 .01 .02	"	"	"	
" " "			+3.04 b +2.91 +3.09 a +3.18 +3.06	15	10.5 .06 .07 .05 .04	"	"	"	
" 8	13		+3.58 b +3.52 +3.44 a +3.56 +3.52	13	22.5 .03 .03 .06 .06	4150	91	167	
" " "			+3.53 a +3.64 +3.26 b +3.46 +3.47	13	28.5 .05 .06 .10 .10	"	"	"	
" " "			+3.40 b +3.50 +3.51 a +3.53 +3.48	13	34.5 .05 .05 .01 .01	"	"	"	
" 9	2		+3.75 b +3.61 +3.49 a +3.64 +3.62	12	41.5 .07 .07 .07 .08	4170	91	172	
" " "			+3.74 a +3.67 +3.78 b +3.73 +3.73	12	50.5 .04 .03 .02 .03	"	"	"	
" 9	3		+3.69 b +3.59 +3.60 a +3.63 +3.63	12	58.5 .05 .05 .02 .01	4171	91	178	
" " "			+3.55 a +3.61 +3.70 b +3.90 +3.69	13	08.5 .03 .03 .10 .10	"	"	"	
" 9	6		+3.74 a +3.63 +3.80 b +3.85 +3.75	12	28.0 .06 .05 .02 .03	4174	91	183	
" " "			+3.82 b +3.73 +3.76 a +3.75 +3.77	12	43.0 .04 .05 .00 .01	"	"	"	
" 9.	9.		+3.82 a +3.69 +3.82 b +3.[illegible] +3.80	12	35.5 .06 .07 .02 .01	4177	91	203	
" 9	14		+2.32 a +2.36 +2.02 b +2.42 +2.28	12	22.0 .02 .02 .20 .20	4182	92	32	
" " "			+2.07 b +2.21 +2.00 a +2.02 +2.08	12	46.0 .07 .07 .01 .01	"	"	35	
" 9	14		+1.67 b +1.63 +1.63 a +1.85 +1.70	12	30.0 .02 .02 .11 .11	4182	92	33	
" " "			+1.77 a +1.88 +1.59 b +1.62 +1.71	12	38.0 .05 .06 .01 .02	"	"	"	
" 9	15		+2.25 b +2.06 +2.06 a +2.18 +2.14	12	17.5 .09 .10 .06 .06	4183	92	47	
" " "			+2.13 a +2.23 +2.02 b +2.12 +2.12	12	28.0 .05 .05 .05 .05	"	"	"	
" 9	17.		+2.06 a +2.11 +1.79 b +1.76 +1.93	12	4.0 .02 .03 .01 .02	4185	92	56	

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Diff. A-B.	Comp. Star.			Magn Star	Magn Iapetus	Mean Iapetus	
-.20	SD	-16°	4116	A	8.90	12.16		
~~-.04~~	~~SD~~	~~-16°~~	~~4120~~	~~A0~~	~~7.78~~	~~13.02~~	~~12.98~~	~~This was not Iapetus.~~
.00	"	"	"	"	"	12.93		" " " "
.39	SD	-16°	4116	A	8.90	12.52		
.24	"	"	"	"	"	12.32	12.37	
~~.10~~	~~"~~	~~"~~	~~"~~	~~"~~	~~"~~	~~12.47~~	~~12.90~~	~~This was not Iapetus.~~
~~.43~~	~~"~~	~~"~~	~~"~~	~~"~~	~~"~~	~~12.92~~		~~" " " "~~
.14	SD	-16°	4116	A	8.90	12.54		
.16	"	"	"	"	"	12.52	12.54	
.02	SD	-16°	4116	8.8	8.90	12.01		
.02	"	"	"	"	"	11.89	11.95	
.16	"	"	"	"	"	11.96		
.05	SD	-16°	4120	8.0	7.78	11.30		
.22	"	"	"	"	"	11.25	11.27	
.07	"	"	"	"	"	11.26		
.12	SD	-17°	4388	7.2	7.28	10.90	10.96	
.06	"	"	"	"	"	11.01		
.02	SD	-17°	4388	7.2	7.28	10.91	10.94	
.22	"	"	"	"	"	10.97		
.14	SD	-17°	4388	7.2	7.28	11.03	11.04	
.02	"	"	"	"	"	11.05		
.08	SD	-17°	4388	7.2	7.28	11.08	11.08	
~~.12~~	~~SD~~	~~-17°~~	~~4405~~	~~9.1~~				~~This was not Iapetus~~
~~.13~~	~~"~~	~~"~~	~~"~~	~~"~~				~~" " " "~~
~~.09~~	~~SD~~	~~-17°~~	~~4405~~	~~9.1~~				~~This was not Iapetus.~~
~~.22~~	~~"~~	~~"~~	~~"~~	~~"~~				~~" " " "~~
.04	SD	-16°	4144	9.0	9.34	11.48	11.47	Next Iapetus record
.11	"	"	"	"	"	11.46		See page 176
.30	SD	-17°	4413	(9.2)	9.73	11.66	11.66	

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Meast. of Telan with Nat. I.

1897-8

Date.			Tabular Quantity.	Diff. Magn.	Gr. M. Time.	Resids.	J. D. 241	Bk. + Page.	
97.	6.	17.	-0.69 -0.76 -0.76 -0.73	-0.73	1h	13 .03 .02 .02 .01	4091	90.	174
"	"	"	-0.77 -0.79 -0.76 -0.80	-0.80	1h	10 .01 .01 .01 .01	"	"	"
"	6	23.	-0.74 -0.74 -0.61 -0.67	-0.68	16	34 .00 .00 .02 .02	4099	91	13
"	"	"	-0.62 -0.72 -0.76 -0.64	-0.70	16	25 .05 .01 .04 .04	"	"	"
"	8	13	+1.36 +1.28 +1.22 +1.05	+1.23	13	41.0 .04 .04 .08 .09	4150	91	170
"	"	"	+1.28 +1.29 +1.14 +1.13	+1.21	13	49.5 .00 .01 .00 .01	"	"	"
1898.	6.	7.	-0.09 -0.02 -0.63 -0.61	-0.34	16	07.0 .03 .04 .01 .01	4448	98	1049
"	"	"	-0.59 -0.75 -0.07 0.00	-0.36	16	17.0 .08 .08 .03 .04	"	"	"
"	"	14	-1.25 -0.62 -1.15 -1.17	-1.05	16	13 .31 .32 .01 .01	4455	98	1052
"	"	"	-1.11 -1.25 -0.70 -0.74	-0.96	16	03 .07 .07 .01 .00	"	"	"
"	"	15	-0.96 -0.87 -1.10 -1.09	-1.01	16	5.6 .04 .05 .00 .01	4456	"	199
"	"	"	-1.06 -1.14 -0.91 -0.78	-0.97	17	23.6 .04 .04 .07 .06	"	"	200
"	"	21	-2.12 -2.08 -2.50 -2.51	-2.30	17	14.7 .02 .02 .00 .01	4462	99	1
"	"	"	-2.43 -2.42 -2.18 -2.21	-2.31	17	21.7 .01 .00 .02 .01	"	"	2
"	7	15	-0.15 -0.10 -0.29 -0.34	-0.22	16	15.7 .03 .02 .03 .02	4486	99	171
"	"	"	-0.29 -0.34 +0.02 -0.01	-0.16	16	23.2 .03 .02 .02 .01	"	"	172
"	"	16	-0.06 -0.03 -0.18 -.040	-0.16	16	42.3 .02 .01 .11 .11	4487	99	184
"	"	"	-0.35 -0.37 -0.20 -0.18	-0.28	16	49.3 .01 .01 .01 .01	"	"	185

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Diff. A–B.	Comp. Star.				Magn. Comp. Star	Magn. Titan.	Mean Titan.
-.02	SA.	-17°	4397	9.2	9.73'	9.00'	8.96'
.05	"	"	"	"	"	8.93'	
.19	"	-16°	4422	9.0	9.27'	8.59'	8.58'
.05	"	"	"	"	"	8.57'	
.18'	SD	-16°	4120	8.0	7.78'	9.01'	9.00'
.14'	"	"	"	"	"	8.99'	
.56	SD	-19°	4381	(8.4)			
.63	"	"	"	"			
.22	SD.	-19°	4375	(8.8)			
	"	"	"	"			
.18	SD.	-19°	4375	(8.8)			
.26	"	"	"	"			
+.40	SD.	-19°	4374	(9.8)			
+.22	"	"	"	"			
+.20	SA.	-19°	4362	(A.V.)			
.00	"	"	"	"			
+.24							
+.17							

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June 16, 1897.

Gr. M. Time.	Diff. Magn.	av. Dev.	Gr. M. Time	Diff Magn	av. Dev	Gr. M. Time.	Diff. Magn.	av. Dev.
a	+0.60	+.04	a	+0.57	.00	a	+0.65	+.04
	+0.51	-.05		+0.57	.00		+0.57	-.04
13 21 42	+0.56	±.045	13 52 17	+0.57	.000	14 20 55	+0.61	±.04
13 10 45			13 10 45			13 10 45		
+0 10 57	+0.74	.00	+0 41 32	+0.91	+.04	+1 10 10	+0.82	.00
+0.0076	+0.74	+.01	+0.0222	+0.83	-.04	+0.0487	+0.82	.00
	+0.74	±.005		+0.87	±.040		+0.82	.00
-.18	+0.69	±.025	-.20	+0.72	±.020	-.21	+0.72	±.020
b	+0.77	+.02	b	+0.86	-.01	b	+0.88	+.04
	+0.73	-.02		+0.88	+.01		+0.81	-.03
13 27 29	+0.75	±.020	13 59 52	+0.87	±.010	14 27 25	+0.84	±.035
13 10 45			13 10 45			13 10 45		
+0 16 44	+0.58	-.02	+0 49 07	+0.68	-.02	+1 16 40	+0.68	-.02
+0.0116	+0.62	+.02	+0.0341	+0.71	+.01	+0.0532	+0.71	+.01
	+0.60	±.020		+0.70	±.015		+0.70	±.015
-.15	+0.68	±.020	-.17	+0.78	±.012	-.14	+0.77	±.025
a	+0.73	+.02	a	+0.76	+.02			
	+0.64	-.07		+0.72	-.02			
13 34 10	+0.68	±.045	14 06 43	+0.74	±.020			
13 10 45			13 10 45					
+0 23 25	+0.57	-.04	+0 56 00	+0.91	+.13			
+0.0163	+0.73	+.02	+0.0389	+0.65	-.13			
	+0.65	±.080		+0.78	±.130			
+.03	+0.66	±.068	-.04	+0.76	±.025			
b	+0.71	+.03	b	+0.73	+.04			
	+0.65	-.03		+0.65	-.04			
13 44 34	+0.68	±.030	14 13 57	+0.69	±.040			
13 10 45			13 10 45					
+0 33 49	+0.57	+.02	+1 03 12	+0.58	-.06			
+0.0234	+0.53	-.02	+0.0439	+0.70	+.06			
	+0.55	±.020		+0.64	±.060			
-.13	+0.62	±.025	-.05	+0.66	±.050			

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June 16, 1897.

Gr. M. Time	Diff Magn.	Av. Dev.	Gr. M. Time	Diff Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.
a	+0.22	-.03	a	-0.49	+.03	a	-0.88	+.02
	+0.28	+.03		-0.56	-.04		-0.93	-.03
15 54 57	+0.25	±.030	16 31 05	-0.52	±.035	16 58 13	-0.90	±.025
13 10 45	+0.33	+.04	13 10 45	-0.50	-.04	13 10 45	-0.83	-.02
+2 44 12	+0.17	-.04	+3 20 20	-0.43	+.03	+3 47 28	-0.79	+.02
+0.1140	+0.25	±.080	+0.1391	-0.46	±.035	+0.1540	-0.81	±.020
.00	+0.25	±.035	-.06	-0.49	±.035	-.09	-0.86	±.022
b	+0.24	+.03	b	-0.38	+.02	b	-0.79	+.04
	+0.18	-.03		-0.53	-.07		-0.87	-.04
16 01 37	+0.21	±.030	16 37 49	-0.46	±.075	17 05 35	-0.83	±.040
13 10 45	+0.14	+.06	13 10 45	-0.63	-.04	13 10 45	-0.94	+.01
+2 50 52	+0.03	-.04	+3 27 04	-0.54	+.04	+3 54 50	-0.96	-.01
+0.1146	+0.08	±.055	+0.1439	-0.58	±.045	+0.1631	-0.95	±.010
-.13	+0.14	±.042	-.12	-0.52	±.060	-.12	-0.89	±.025
a	+0.09	+.01	a	-0.59	+.01			
	+0.07	-.01		-0.62	-.02			
16 08 34	+0.08	±.010	16 44 43	-0.60	±.015			
13 10 45	-0.09	.00	13 10 45	-0.70	-.02			
+2 57 49	-0.09	.00	+3 33 58	-0.63	+.03			
+0.1236	-0.09	.000	+0.1446	-0.68	±.025			
+.17	0.00	±.005	+.08	-0.64	±.020			
b	-0.36	-.04	b	-0.69	+.04			
	-0.29	+.03		-0.80	-.06			
16 24 34	-0.32	±.035	16 51 36	-0.74	±.055			
13 10 45	-0.43	-.03	13 10 45	-0.87	+.03			
+3 13 49	-0.38	+.02	+3 40 51	-0.93	-.03			
+0.1346	-0.40	±.025	+0.1536	-0.90	±.030			
-.08	-0.35	±.030	-.16	-0.82	±.042			

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June 21, 1897.

Gr. M. Time.			Diff. Magn.	Av. Dev.	Gr. M. Time.			Diff. Magn.	Av. Dev.	Gr. M. Time.			Diff. Magn.	Av. Dev.
		a	+0.70	.00			a	+0.26	+.04			d	-0.38	.00
			+0.69	-.01				+0.11	-.07				-0.38	.00
15	10	02.	+0.70	±.005	15	34	26.	+0.18	±.075	16	00	12.	-0.38	.00
12	50	40			12	50	40			12	50	40		
+2	19	32	+0.86	-.02	+2	43	46	+0.27	-.04	+3	09	32	-0.29	-.03
+0.0968		b			+0.1138		b			+0.1316			-0.24	+.02
			+0.89	+.01				+0.38	+.06					
			+0.88	±.015				+0.32	±.055				-0.26	±.02
		-.18	+0.79	±.010			-.14	+0.25	±.065			-.12	-0.32	
		b	+0.85	+.03			b	+0.21	-.03			b	-0.29	+.01
			+0.78	-.04				+0.27	+.03				-0.30	.00
15	15	36.	+0.82	±.035	15	42	10.	+0.24	±.030	16	08	35.	-0.30	±.005
12	50	40			12	50	40			12	50	40		
+2	24	56	+0.62	+.02	+2	51	30	+0.02	-.02	+3	17	53	-0.50	+.06
+0.1006		a			+0.1190		a			+0.1374		a		
			+0.58	-.02				+0.06	+.02				-0.61	-.05
			+0.60	±.020				+0.04	±.020				-0.56	±.055
		-.22	+0.71	±.028			-.20	+0.14	±.025			-.26	-0.43	±.030
		a	+0.63	+.04			a	-0.03	+.04					
			+0.55	-.04				-0.11	-.04					
15	21	27.	+0.59	±.040	15	48	23.	-0.07	±.040					
12	50	40			12	50	40							
+2	30	47	+0.54	+.02	+2	57	43	-0.08	-.02					
+0.1048		b			+0.1234		b							
			+0.50	-.02				-0.03	+.03					
			+0.52	±.020				-0.06	±.025					
		+.07	+0.56	±.030			-.01	-0.06	±.032					
		b	+0.63	+.09			b	-0.03	+.05					
			+0.46	-.04				-0.13	-.05					
15	27	22.	+0.54	±.085	15	54	06.	-0.08	±.050					
12	50	40			12	50	40							
+2	36	42	+0.22	+.06	+3	03	26	-0.29	+.05					
+0.1088		a			+0.1274		a							
			+0.11	-.05				-0.39	-.05					
			+0.16	±.055				-0.34	±.050					
		-.38	+0.35	±.070			-.26	-0.21	±.050					

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1897phae.proj..4460

N Delphini.

Comp. Star = a = 9.2 mags.

July 1, 1897

Gr. M. Time	Diff Magn	av. Dev	Gr. M. Time	Diff Magn	av. Dev	Gr. M. Time	Diff. Magn	av Dev
a	+2.66	.00	a	+2.78	+.01	a	+2.64	+.10
	+2.67	+.01		+2.76	-.01		+2.45	-.09
15 42 40	+2.66	±.005	16 35 36	+2.77	±.010	17 18 25	+2.54	±.095
0.6547			0.6914			0.7211		
0.6997 b	+2.81	-.03	0.6997 b	+2.88	.00	0.6997 b	+2.60	+.02
-0.0450	+2.88	+.04	-0.0083	+2.89	+.01	+0.0214	+2.57	-.01
	+2.84	±.035		+2.88	±.005		+2.58	±.015
	12.02			12.09			11.83	
-.18	+2.75	±.020	-.16	+2.82	±.008	-.04	+2.56	±.055
b	+2.94	-.01	b	+2.91	+.01	b	+2.39	-.05
	+2.96	+.01		+2.90	.00		+2.49	+.05
16 2 58	+2.95	±.010	16 48 35	+2.90	±.005	17 27 7	+2.44	±.050
0.6688			0.7004			0.7272		
0.6997 a	+2.92	+.03	0.6997 a	+2.68	-.05	0.6997 a	+2.37	-.05
-0.0309	+2.86	-.03	+0.0007	+2.78	+.05	+0.0275	+2.48	+.06
	+2.89	±.030		+2.73	±.050		+2.42	±.055
	12.19			12.09			11.79	
-.06	+2.92	±.020	-.17	+2.82	±.028	-.02	+2.43	±.052
a	+2.86	+.03	a	+2.74	+.04	a	+2.34	+.01
	+2.80	-.03		+2.67	-.03		+2.32	-.01
16 9 27	+2.83	±.030	16 54 59	+2.70	±.035	17 37 28	+2.33	±.010
0.6732			0.7049			0.7344		
0.6997 b	+2.81	-.01	0.6997 b	+2.82	+.02	0.6997 b	+2.29	+.05
-0.0265	+2.83	+.01	+0.0052	+2.78	-.02	+0.0347	+2.18	-.06
	+2.82	±.010		+2.80	±.020		+2.24	±.055
	12.09			12.02			11.56	
+.01	+2.82	±.020	-.10	+2.75	±.028	+.09	+2.28	±.032
b	+2.75	-.01	b	+2.57	-.01	b	+2.20	-.05
	+2.76	.00		+2.60	+.02		+2.30	+.05
16 17 20	+2.76	±.005	17 6 21	+2.58	±.015	17 45 26	+2.25	±.050
0.6787			0.7128			0.7399		
0.6997 a	+2.68	-.06	0.6997 a	+2.63	+.01	0.6997 a	+2.17	-.03
-0.0210	+2.80	+.06	+0.0131	+2.60	-.02	+0.0402	+2.22	+.02
	+2.74	±.060		+2.62	±.015		+2.20	±.025
	12.02			11.87			11.49	
-.02	+2.75	±.032	+.04	+2.60	±.015	-.05	+2.22	±.038

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July 1, 1897

Gr. M. Time		Diff Magn	av. Dev
	a	+2.17	+.09
		+2.00	-.08
17 57 4		+2.08	±.085
0.7480	b	+1.94	+.08
0.6997		+1.78	-.08
+0.0483		+1.86	±.080
		11.24	
+.22		+1.97	±.082
	b	+1.81	+.08
		+1.65	-.08
18 13 27		+1.73	±.080
0.7593	a	+1.79	+.03
0.6997		+1.73	-.03
+0.0596		+1.76	±.030
		11.04	
+.03		+1.74	±.055

July 30. 1897.

Gr. M. Time		Diff. Magn.	av. Dev
	a	+2.37	+.01
		+2.34	-.02
13 27 5		+2.36	±.015
~~0.5159~~	b	+2.43	-.01
0.5608		+2.46	+.02
0.5369		+2.44	±.015
+0.0239		11.67	
0 34		-.05	+2.40 ±.015
	b	+2.41	-.02
		+2.45	+.02
13 33 31		+2.43	±.020
~~0.5232~~	a	+2.31	+.03
0.5650		+2.24	-.04
0.5369		+2.28	±.035
+0.0281		11.63	
0 40		-.15	+2.36 ±.028
	a	+2.29	-.03
		+2.35	+.03
13 40 22		+2.32	±.030
~~0.5251~~	b	+2.17	-.05
0.5697		+2.26	+.04
0.5369		+.10	+2.22 ±.045
+0.0328		11.54	
0 47			+2.27 ±.038
	b	+2.07	.00
		+2.07	.00
13 46 56		+2.07	.000
~~0.5325~~	a	+2.21	+.05
0.5742		+2.12	-.04
0.5369		+2.16	±.045
+0.0373		+.09	11.39 +2.12 ±.022
0 54			

Gr. M. Time		Diff Magn	av. Dev
	a	+2.12	+.04
		+2.05	-.03
13 54 44		+2.08	±.035
~~0.5797~~	b	+1.97	+.05
0.5369		+1.86	-.06
+0.0428		+1.92	±.055
1 2		11.27	
		+.16 +2.00	±.045
	b	+1.95	+.04
		+1.87	-.04
14 0 55		+1.91	±.04
0.5839	a	+1.94	.00
0.5369		+1.94	.00
+0.0470		+1.94	.000
1 8		11.19	
		+.03 +1.92	±.020
	a	+1.87	+.01
		+1.86	.00
14 8 54		+1.86	±.005
0.5595	b	+1.82	+.03
0.5369		+1.76	-.03
+0.0526		+1.79	±.030
~~0~~ 1 16		11.09	
		+.07 +1.82	±.018
	b	+1.22	+.03
		+1.16	-.03
15 22 34		+1.19	±.030
0.6407	a	+1.04	+.01
0.5369		+1.02	-.01
+0.1038		+1.03	±.010
2 29		10.98	
		-.16 +1.11	±.020

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γ Delphini.

July 30. 1897.

Gr. M. Time.	Diff Magn.	av. Dev.	Gr. M. Time	Diff Magn.	av. Dev.	Gr. M. Time	Diff Magn.	av. Dev.
	a +0.99	+.01		a +0.89	+.06		a +0.69	+.05
	+0.98	.00		+0.77	-.06		+0.58	-.06
15 30 25	+0.98	±.005	15 59 56	+0.83	±.060	16 34 48	+0.64	±.055
0.6461 / 0.5369 / +0.1092	b +1.05	+.04	0.6666 / 0.5369 / +0.1297	b +0.73	-.05	0.6909 / 0.5369 / +0.1540	b +0.55	-.01
2 37	+0.97	-.04	3 7	+0.82	+.04	3 42	+0.56	.00
	+1.01	±.040		+0.78	±.045		+0.56	+.005
-.03	10.27 +1.00	±.022	+.05	10.07 +0.80	±.052	+.08	9.87 +0.60	+.030
	b +1.05	+.05		b +0.79	+.04		b +0.37	-.09
	+0.94	-.06		+0.71	-.04		+0.54	+.08
15 37 16	+1.00	±.055	16 7 17	+0.75	±.040	16 41 27	+0.46	±.085
+0.6509 / 0.5369 / +0.1140	a +0.80	-.02	0.6717 / 0.5369 / +0.1348	a +0.64	.00	0.6954 / 0.5369 / +0.1585	a +0.52	+.01
2 44	+0.83	+.01	3 14	+0.63	-.01	3 48	+0.50	-.01
	+0.82	±.015		+0.64	±.005		+0.51	±.010
-.18	10.18 +0.91	±.035	-.11	9.97 +0.70	±.022	+.05	9.75 +0.48	±.048
	a +0.82	-.02		a +0.66	+.07		a +0.58	+.06
	+0.85	+.01		+0.52	-.07		+0.47	-.05
15 45 38	+0.84	±.015	16 21 10	+0.59	±.070	16 46 54	+0.52	±.055
0.6567 / 0.5369 / +0.1198	b +0.95	-.01	0.6814 / 0.5369 / +0.1445	b +0.59	-.05	0.6992 / 0.5369 / +0.1623	b +0.52	-.06
2 53	+0.97	+.01	3 28	+0.69	+.05	3 57	+0.64	+.06
	+0.96	±.010		+0.64	±.050		+0.58	±.060
-.12	10.17 +0.90	±.012	-.05	9.89 +0.62	±.060	-.06	9.82 +0.55	±.058
	b +0.94	+.02		b +0.63	-.01		b +0.53	+.01
	+0.89	-.03		+0.64	.00		+0.52	.00
15 55 54	+0.92	±.025	16 27 52	+0.64	±.005	16 52 0	+0.52	±.005
0.6638 / 0.5369 / +0.1269	a +0.88	-.08	0.6860 / 0.5369 / +0.1491	a +0.75	+.07	0.7028 / 0.5369 / +0.1659	a +0.64	+.06
3 3	+1.04	+.08	3 35	+0.62	-.06	3 59	+0.52	-.06
	+0.96	±.080		+0.68	±.065		+0.58	±.060
+.04	10.21 +0.94	±.052	+.04	9.99 +0.66	±.035	+.06	9.82 +0.55	±.032

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S Cephei. Phot. I

Comp. star = e = 9.08

Date			Tabular Quantity.				Mean	Gr. M. Time	Resids.				J.D. 240	Bk.	& Page.	
'97.	7.	30.	0.85	a 0.96	0.99	b 0.90	0.92	12	51.5	.05	.06	.05	.04	4136	91	133	
"	"	"	0.94	b 0.82	0.62	a 0.65	0.76	12	58.5	.06	.06	.02	.01	"	"	"	
"	7	31.	0.45	a 0.44	0.53	b 0.46	0.47	13	17.0	.01	.00	.03	.04	4137	91	157	
"	"	"	0.32	b 0.52	0.44	a 0.36	0.41	13	35.5	.10	.10	.04	.04	"	"	"	±
"	9.	8.	+0.09	b +0.16	+0.11	a +0.12	+0.12	13	19.0	.03	.04	.01	.00	4176	91	192	±
"	"	"	+0.09	a +0.13	+0.10	b +0.08	+0.10	13	27.0	.02	.02	.01	.01	"	"	"	±
"	9	9	−0.02	b +0.05	+0.18	a +0.18	+0.10	13	5.0	.04	.03	.00	.00	4177	91	204	±
"	"	"	+0.11	a +0.18	+0.08	b +0.09	+0.11	13	17.0	.03	.04	.00	.01	"	"	"	±
"	9	10	+0.07	b −0.01	+0.09	a +0.32	+0.12	12	49.5	.04	.04	.11	.12	4178	91	212	±
"	"	"	+0.08	a +0.13	+0.12	b +0.13	+0.11	13	15.5	.02	.03	.00	.01	"	"	"	
"	9	13	+0.19	b +0.21	+0.27	a +0.23	+0.22	13	5.5	.01	.01	.02	.02	4181	92	27	
"	"	"	+0.30	a +0.21	+0.17	b +0.19	+0.22	13	16.0	.04	.05	.01	.01	"	"	"	±
"	9	14	+0.21	b +0.17	+0.33	a +0.36	+0.26	13	5.5	.02	.02	.01	.02	4182	92	36	±
"	"	"	+0.30	a +0.34	+0.21	b +0.22	+0.27	13	14.5	.02	.02	.01	.00	"	"	"	±
"	10	5	+0.86	b +0.77	+0.80	a +0.81	+0.81	12	56.0	.04	.05	.00	.01	4203	92	195	±
"	"	"	+0.84	a +0.75	+0.82	b +0.73	+0.79	13	3.0	.04	.05	.04	.05	"	"	196	±
	10	9	+0.77	b +0.71	+0.90	a +0.91	+0.82	12	36.5	.03	.03	.00	.01	4207	93	1	±
"	"	"	+0.84	a +0.86	+0.65	b +0.68	+0.76	12	47.0	.01	.01	.01	.02	"	"	2	±
"	10	13	+1.03	a +1.03	+1.06	b +1.04	+1.04	15	29.5	.00	.00	.01	.01	4211	93	19	±
"	"	"	+0.99	b +1.11	+1.00	a +1.99	+1.02	15	36.5	.06	.06	.00	.01	"	"	20	±
"	11	4	+1.57	a +1.53	+1.66	b +1.64	+1.60	16	14.0	.02	.02	.01	.01	4233	93	190	±
"	"	"	+1.62	b +1.59	+1.61	a +1.48	+1.57	16	21.0	.02	.01	.07	.06	"	"	191	±
"	11.	10.	+1.50	b +1.57	+1.45	a +1.54	+1.52	12	25.0	.04	.03	.05	.04	4239	93	206	±
"	"	"	+1.44	a +1.38	+1.76	b +1.73	+1.58	12	32.5	.03	.03	.02	.01	"	"	207	±

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Av. Dev.	A-B	Comp. Star.	Mean
±.050	.04'	e	8.24'
±.038	.24'	"	
±.020	.06'	e	8.64'
±.070	.02'	"	
±.020	.00'	e	9.19'
±.015	.02'	"	
±.018	.16'	e	9.18'
±.020	.06'	"	
±.078	.17'	e	9.20'
±.018	.02'	"	
±.015'	.05'	e	9.30'
±.028'	.08'	"	
±.018'	.15	e	9.34'
±.012'	.10	"	
±.025	-.02	e	9.88
±.045	+.02	"	
±.018	+.16	e	9.87
±.012	+.19	"	
±.005	-.02	e	10.11
±.032	-.05	"	
±.015	-.10	e	10.66
±.040	-.06	"	
±.040	-.014	e	10.63
±.022	-.33	"	

Con. from p. 16.

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γ Delphini.

Sept. 11, 1897

G. m. T.		Diff. Magn.	Wt. Der.
	b	+0.50	−.03
		+0.56	+.03
13 36 4		+0.53	±.030
0.5668	a	+0.51	+.03
−0.7952		+0.46	−.02
−0.2284		+0.48	±.025
−5 29		9.77	
−.05		+0.72	±.028
	a	+0.44	−.04
		+0.51	+.03
13 45 28		+0.48	±.035
0.5732	b	+0.67	−.03
−0.7952		+0.72	+.02
−0.2220		+0.70	±.025
−5 20		9.86	
−.22		+0.59	±.030
	b	+0.70	−.02
		+0.75	+.03
13 52 50		+0.72	±.025
0.5784	a	+0.60	−.02
−0.7952		+0.65	+.03
−0.2168		+0.62	±.025
−5 12		9.94	
−.10		+0.67	±.025
	a	+0.61	−.01
		+0.64	+.02
14 1 8		+0.62	±.015
0.5841	b	+0.58	−.02
−0.7952		+0.63	+.03
−0.2111		+0.60	±.025
−5 4		9.88	
+.02		+0.61	±.020

G. m. T.		Diff. Magn.	Wt. Der.
	b	+0.65	+.04
		+0.57	−.04
14 9 12		+0.61	±.040
0.5897	a	+0.81	−.03
−0.7952		+0.86	+.02
−0.2055		+0.84	±.025
−4 56		9.98	
+.23		+0.75	±.032
	a	+0.87	+.05
		+0.77	−.05
14 15 38		+0.82	±.050
0.5941	b	+0.94	+.01
−0.7952		+0.92	−.01
−0.2011		+0.93	±.010
−4 50		10.15	
−.11		+0.88	±.030
	b	+0.98	+.03
		+0.92	−.03
14 22 27		+0.95	±.030
0.5989	a	+0.84	−.02
−0.7952		+0.87	+.01
−0.1963		+0.86	±.015
−4 43		10.17	
−.09		+0.96	±.022
	a	+0.79	−.03
		+0.84	+.02
14 30 28		+0.82	±.025
0.6046	b	+0.65	−.11
−0.7952		+0.88	+.12
−0.1906		+0.76	±.115
−4 34		10.00	
+.06		+0.79	±.070

G. m. T.		Diff. Magn.	Wt. Der.
	b	+0.84	+.01
		+0.82	−.01
14 38 30		+0.83	±.010
0.6100	a	+0.99	−.02
−0.7952		+1.03	+.02
−0.1852		+1.01	±.020
−4.27		10.19	
+.18		+0.92	±.015
	a	+1.10	−.02
		+1.14	+.02
14 48 11		+1.12	±.020
0.6168	b	+1.06	−.01
−0.7952		+1.08	+.01
−0.1784		+1.07	±.010
−4 17		10.37	
+.05		+1.10	±.015
	b	+1.14	+.02
		+1.11	−.01
14 55 58		+1.12	±.015
0.6221	a	+1.13	−.01
−0.7952		+1.16	+.02
−0.1731		+1.14	±.015
−4 9		10.40	
+.02		+1.13	±.015
	a	+1.15	−.05
		+1.24	+.04
15 3 57		+1.20	±.045
0.6278	b	+1.08	−.02
−0.7952		+1.13	+.03
−0.1674		+1.10	±.025
−4 1		10.42	
+.10		+1.13	±.035

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4 Delphini.

Sept. 11, 1897.

Gr. M. Time	Diff. Magn.	av. Dev.	Gr. M. Time	Diff. Magn.	av. Dev.	Gr. M. Time	Diff. Magn.	av. Dev.
b	+1.22	-.05	b	+1.66	+.04	b	+2.06	-.02
	+1.32	+.05		+1.59	-.03		+2.11	+.03
15 20 45	+1.27	±.050	15 52 26	+1.62	±.035	16 23 44	+2.08	±.025
0.6395			0.6614			0.6831		
-0.7952	+1.48	-.06	-0.7952	+1.88	-.04	-0.7952	+2.37	+.01
-0.1557 a			-0.1338 a			-0.1121 a		
-3 44	+1.59	+.05	-3 13	+1.93	+.03	-2 41	+2.36	.00
	+1.54	±.055		+1.92	±.035		+2.36	±.005
10.67			11.05			11.49		
+.27	+1.46	±.052	+.30	+1.77	±.035	+.28	+2.22	±.015
a	+1.49	-.01	a	+1.85	-.06	a	+2.31	-.03
	+1.52	+.02		+1.97	+.06		+2.36	+.02
15 29 40	+1.50	±.015	16 0 16	+1.91	±.060	16 31 29	+2.34	±.025
0.6456			0.6669			0.6886		
-0.7952	+1.56	-.02	-0.7952	+1.87	-.03	-0.7952	+2.43	+.07
-0.1496 b			-0.1283 b			-0.1066 b		
-3 35	+1.59	+.01	-3 5	+1.92	+.02	-2 34	+2.29	-.07
	+1.58	±.015		+1.90	±.025		+2.36	±.070
10.87			11.17			11.67		
-.08	+1.54	±.015	+.01	+1.90	±.042	-.02	+2.35	±.042
b	+1.63	.00	b	+1.89	-.01	b	+2.44	+.08
	+1.63	.00		+1.91	+.01		+2.29	-.07
15 36 28	+1.63	.00	16 8 8	+1.90	±.010	16 41 39	+2.36	±.075
0.6504			0.6723			0.6955		
-0.7952	+1.63	+.03	-0.7952	+2.11	+.01	-0.7952	+2.36	-.00
-0.1448 a			-0.1229 a			-0.0997 a		
-3 29	+1.58	-.02	-2 57	+2.09	-.01	-2 24	+2.55	+.09
	+1.60	±.025		+2.10	±.010		+2.46	±.095
10.89			11.25			11.67		
-.03	+1.62	±.006	+.20	+2.00	±.010	+.10	+2.41	±.085
a	+1.64	+.02	a	+2.06	.00	a	+2.62	-.02
	+1.61	-.01		+2.07	+.01		+2.66	+.02
15 43 40	+1.62	±.015	16 16 13	+2.06	±.005	16 49 12	+2.64	±.020
0.6554			0.6779			0.7008		
-0.7952	+1.48	-.03	-0.7952	+2.00	+.03	-0.7952	+2.51	.00
-0.1398 b			-0.1173 b			-0.0944 b		
-3 21	+1.54	+.03	-2 49	+1.94	-.03	-2 16	+2.51	.00
	+1.51	+.030		+1.97	±.030		+2.51	.00
10.89			11.29			11.82		
+.11	+1.56	±.022	+.09	+2.02	±.018	+.13	+2.58	±.010

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1897phae.proj..4460

7 Delphini.

Sept. 11, 1897

Gr. M. Time.		Diff. Magn.	Av. Dev.
	b	+2.47	-.06
		+2.59	+.06
16 56 49		+2.53	±.060
0.7061			
-0.7952	a	+2.64	-.06
-0.0891			
-2 8		+2.75	+.05
		+2.70	±.055
+.17		+2.62	±.058

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1897phae.proj—4400

U Cephei. Plate I.

Sept. 21. 1897.

G. m. T.	Diff. mags.	Err. Obs.	G. m. T.	Diff. mags.	Err. Obs.	G. m. T.	Diff. mags.	Err. Obs.
	b	-0.79	+.03		b	-0.33	.00		b	+0.14	-.12
		-0.72	+.04			-0.33	.00			+0.37	+.11
16 58 9		-0.76	±.035	17 28 11		-0.33	.00	17 59 23		+0.26	±.115
18 18 56		-0.71	-.04	18 18 56		-0.22	-.02	18 18 56		+0.30	-.05
-1 20 47		-0.63	+.04	-0 50 46		-0.19	+.01	-0 19 33		+0.40	+.05
-0.0562		-0.67	±.040	-0.0353		-0.20	±.015	-0.0136		+0.35	±.050
	+.09	-0.72	±.038		+.13	-0.26	±.008		+.09	+0.30	±.082
	a	-0.68	.00		a	-0.11	+.01		a	+0.46	-.02
		-0.67	+.01			-0.13	-.01			+0.43	+.01
17 4 47		-0.68	±.005	17 36 12		-0.12	±.010	18 7 3		+0.42	±.015
18 18 56		-0.65	-.03	18 18 56		-0.20	+.01	18 18 56		+0.53	-.01
-1 14 49		-0.58	+.04	-0 42 44		-0.22	-.01	-0 11 53		+0.54	.00
-0.0515		-0.62	±.035	-0.0297		-0.21	±.010	-0.0082		+0.54	±.005
	-.06	-0.65	±.020		+.09	-0.16	±.010		-.12	+0.48	±.010
	b	-0.57	+.01		b	-0.16	+.02				
		-0.53	-.01			-0.20	-.02				
17 11 37		-0.52	±.010	17 44 51		-0.18	±.020				
18 18 56		-0.62	-.07	18 18 56		-0.07	+.01				
-1 7 19		-0.48	+.07	-0 34 55		+0.04	-.02				
-0.0467		-0.55	±.070	-0.0237		+0.06	±.015				
	-.03	-0.54	±.040		+.24	-0.06	±.018				
	a	-0.51	-.06		a	+0.16	.00				
		-0.39	+.06			+0.15	-.01				
17 19 1		-0.45	±.060	17 52 7		+0.16	±.005				
18 18 56		-0.47	-.03	18 18 56		+0.22	.00				
-0 59 55		-0.39	+.04	-0 26 49		+0.22	.00				
-0.0416		-0.43	±.035	-0.0187		+0.22	.00				
	-.02	-0.44	±.048		-.06	+0.19	±.002				

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1897phae.proj..4460

U Pegasi. Phot. T.

Comparison Star = DM +15° 4916 (8.8)

Oct. 18, 1897

Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.
b	+0.60	+.01	b	+0.82	-.04	b	+1.01	+.05
	+0.58	-.01		+0.89	+.03		+0.90	-.06
12 31 21	+0.59	±.010	13 14 28	+0.86	±.035	14 14 51	+0.96	±.055
	+0.56	.00		+0.85	+.03		+0.96	+.04
	+0.57	+.01		+0.80	-.02		+0.87	-.05
	+0.56	±.005		+0.82	±.025		+0.92	±.045
-.03	+0.58	±.008	-.04	+0.84	±.030	-.04	+0.94	±.050
a	+0.63	+.01	a	+0.86	-.04	a	+0.77	+.01
	+0.60	-.02		+0.95	+.05		+0.74	-.02
12 44 3	+0.62	±.015	13 24 45	+0.90	±.045	14 13 47	+0.76	±.015
	+0.78	+.09		+0.96	.00		+0.65	-.01
	+0.60	-.09		+0.95	-.01		+0.66	.00
	+0.69	±.090		+0.96	±.005		+0.66	±.005
-.07	+0.66	±.052	-.06	+0.93	±.025	+.10	+0.71	±.010
b	+0.59	-.04	b	+0.89	-.01	b	+0.69	-.02
	+0.67	+.04		+0.92	+.02		+0.73	+.02
12 53 13	+0.63	±.040	13 41 8	+0.90	±.015	14 23 31	+0.71	±.020
	+0.71	-.03		+1.07	+.02		+0.75	+.03
	+0.76	+.02		+1.03	-.02		+0.69	-.03
	+0.74	±.025		+1.05	±.020		+0.72	±.030
+.11	+0.68	±.032	+.15	+0.98	±.018	+.01	+0.72	±.025
a	+0.73	-.01	a	+1.07	+.05	a	+0.60	-.01
	+0.75	+.01		+0.97	-.05		+0.62	+.01
13 3 20	+0.74	±.010	13 53 26	+1.02	±.050	14 33 57	+0.61	±.010
	+0.79	-.03		+1.04	+.02		+0.58	+.01
	+0.86	+.04		+0.99	-.03		+0.56	-.01
	+0.82	±.035		+1.02	±.025		+0.57	±.010
-.08	+0.78	±.022	.00	+1.02	±.038	+.04	+0.59	±.010

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U Pegasi (cont) Phot. A.

Comparison Star = DM +15° 4916 (8.8)

Oct. 18, 1897.

Dec.	Gr. M. Time.	Diff. Magn.	Wt. Dev.	Gr. M. Time.	Diff. Magn.	Wt. Dev.	Gr. M. Time.	Diff. Magn.	Wt. Dev.
05	b	+0.54	-.02	b	+0.33	-.01	b	+0.36	-.02
06		+0.57	+.01		+0.36	+.02		+0.40	+.02
055	14 49 37	+0.56	±.015	15 41 9	+0.34	±.015	16 26 6	+0.38	±.020
.04	~~14 56 48~~ ~~0 5 14~~ a ~~-16 12~~ ~~-1 22~~ +3 8	+0.64	+.08	~~14 56 48~~ ~~+0 44 24~~ a ~~-16 12~~ ~~-0 31~~ +3 39	+0.30	-.04	~~14 56 48~~ ~~+1 29 18~~ ~~-16 12~~ 40 14	+0.38	.00
.05		+0.49	-.07		+0.37	+.03		+0.39	+.01
045		+0.56	±.075		+0.34	±.035		+0.38	±.005
050	.00	+0.56	±.045	.00	+0.34	±.025	.00	+0.38	±.012
.01	a	+0.52	+.03	a	+0.25	-.03	a	+0.51	+.07
02		+0.46	-.03		+0.32	+.04		+0.38	-.06
.015	15 2 19	+0.49	±.030	15 51 19	+0.28	±.035	16 33 53	+0.44	±.065
.01	~~14 56 48~~ ~~+0 5 31~~ b ~~-16 12~~ ~~-1 10~~ +3 20	+0.44	+.02	~~14 56 48~~ ~~+0 54 34~~ b ~~-16 12~~ ~~-0 21~~ +4 9	+0.41	+.03	~~14 56 48~~ ~~+1 37 24~~ b ~~-16 12~~ +0 27	+0.49	+.01
.00		+0.41	-.01		+0.35	-.03		+0.46	-.02
.005		+0.42	±.015		+0.38	±.030		+0.48	±.015
.010	+.07	+0.46	±.022	-.10	+0.33	±.032	-.04	+0.46	±.040
02	b	+0.41	-.03	b	+0.56	+.06	b	+0.56	+.03
02		+0.48	+.04		+0.44	-.06		+0.50	-.03
.020	15 12 40	+0.44	±.035	16 2 14	+0.50	±.060	16 48 18	+0.53	±.030
.03	~~14 56 48~~ ~~+0 15 52~~ a ~~-16 12~~ ~~-0 59~~ +3 31	+0.57	+.05	~~14 56 48~~ ~~+1 5 28~~ a ~~-16 12~~ ~~-0 10~~ +4 20	+0.39	-.02	~~14 56 48~~ ~~+1 51 38~~ ~~-16 12~~ +0 36	+0.444	.00
.03		+0.46	-.06		+0.43	+.02		+0.43	-.01
.030		+0.52	±.055		+0.41	±.020		+0.444	±.005
.025	+.08	+0.48	±.045	-.09	+0.46	±.040	-.09	+0.48	±.018
.01	a	+0.39	+.01	a	+0.42	-.01	a	+0.444	-.02
.01		+0.36	-.02		+0.44	+.01		+0.48	+.02
.010	15 28 35	+0.38	±.015	16 16 12	+0.43	±.010	16 57 26	+0.46	±.020
.01	~~14 56 48~~ ~~+0 31 47~~ b ~~-16 12~~ ~~-0 43~~ +3 47	+0.34	-.04	~~14 56 48~~ ~~+1 19 24~~ b ~~-16 12~~ 40 4	+0.35	-.03	~~14 56 48~~ ~~+2 0 38~~ ~~-16 12~~ +0 45	+0.55	+.05
.01		+0.42	+.04		+0.42	+.04		+0.45	-.05
.010		+0.38	±.040		+0.38	±.035		+0.50	±.050
.010	.00	+0.38	±.028	+.05	+0.40	±.022	-.04	+0.48	

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U Pegasi (cont) Phot. V.

Comparison Star = DM +15 4916 (8.8)

Oct. 18, 1897

Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.
	f +0.43	-.01		f +0.71	+.02			
	+0.44	.00		+0.67	-.02			
17 9 20	+0.44	±.005	17 44 33	+0.69	±.020			
~~+11 56 +5~~			~~+11 56 +5~~					
~~+2 12 32~~	+0.58	+.02	~~+2 +9 +15~~	+0.75	-.03			
-16 12			-16 12					
+0 57	+0.55	-.01	+1 33	+0.80	+.02			
	+0.56	±.015		+0.78	±.025			
+.12	+0.50	±.010	+.09	+0.74	±.022			
	a +0.61	+.03		a +0.79	+.01			
	+0.55	-.03		+0.76	-.02			
17 21 44	+0.58	±.030	17 51 11	+0.78	±.015			
~~+11 56 +5~~			~~+11 56 +5~~					
~~+2 24 56~~	+0.67	+.03	~~+2 54 23~~	+0.77	+.01			
-16 12			-16 12					
+1 10	+0.60	-.04	+1 39	+0.75	-.01			
	+0.64	±.035		+0.76	±.010			
-.06	+0.61	±.032	+.02	+0.77	±.012			
	b +0.59	-.04		b +0.85	+.04			
	+0.67	+.04		+0.77	-.04			
17 29 43	+0.63	±.040	17 57 34	+0.81	±.040			
~~+11 56 +5~~			~~+11 56 +5~~					
~~+2 32 55~~	+0.70	+.06	~~+3 0 +6~~	+0.84	+.02			
-16 12			-16 12					
+1 18	+0.59	-.05	+1 46	+0.80	-.02			
	+0.64	±.055		+0.82	±.020			
+.01	+0.64	±.048	+.01	+0.82	±.030			
	a +0.71	+.02		a +0.78	-.01			
	+0.67	-.02		+0.80	+.01			
17 37 6	+0.69	±.020	18 4 34	+0.79	±.010			
~~+11 56 +5~~			~~+11 56 +5~~					
~~+2 +0 +5~~	+0.64	-.06	~~+3 7 +6~~	+0.83	+.03			
-16 12			-16 12					
+1 25	+0.75	+.05	+1 53	+0.78	-.02			
	+0.70	±.055		+0.80	±.025			
-.01	+0.70	±.038	-.01	+0.80	±.018			

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Continued from Book 1. Page 66.

o Ceti Phot. R.

Comp. Star = ~~DM~~ SD -3° #355 (9.0) = 9.20

Date	Tabular Quantity		Diff Magn.	G.M.T.	Resids.				Jul. Day 2411+	Book & Page	
1897. 9. 15.	-1.18 -1.16	-1.32 -1.28	-1.24	15 57.0	.01	.01	.02	.02	4183	92	53
" " "	-1.23 -1.29	-1.19 -1.16	-1.22	16 10.0	.03	.03	.01	.02	"	"	54
" 10. 9.	-3.76 -3.72	-3.88 -3.85	-3.80	14 39.0	.02	.02	.02	.01	4207	93	5
" " "	-3.81 -3.82	-3.77 -3.78	-3.80	14 46.0	.01	.00	.01	.00	"	"	6
" 10 13.	-3.98 -4.06	-4.10 -3.97	-4.03	15 2.5	.04	.04	.06	.07	4211	93	17
" " "	-4.02 -4.01	-4.04 -4.04	-4.03	15 8.5	.00	.01	.00	.00	"	"	18
" 10 14	-4.25 -4.34	-4.14 -4.13	-4.22	13 55.5	.05	.04	.00	.01	4212	93	27
" " "	-4.21 -4.11	-4.19 -4.16	-4.17	14 4.5	.05	.05	.01	.02	"	"	28
" 10 23	-4.87 -4.85	-4.79 -4.73	-4.81	14 16.0	.01	.01	.03	.03	4221	93	89
" " "	-4.66 -4.84	-4.78 -4.80	-4.77	14 24.0	.09	.09	.01	.01	"	"	90
" 10 30	-5.35 -5.39	-5.39 -5.48	-5.40	13 31.5	.02	.02	.05	.04	4228	93	154
" " "	-5.31 -5.30	-5.40 -5.51	-5.38	13 54.0	.01	.00	.06	.05	"	"	155
" 11. 6	-5.68 -5.48	-5.62 -5.52	-5.58	14 57.0	.10	.10	.05	.05	4235	93	200
" " "	-5.71 -5.63	-5.54 -5.74	-5.66	15 18.5	.04	.04	.10	.10	"	"	201
" 11. 23.	-6.28 -6.15	-6.18 -6.25	-6.22	12 59.0	.06	.07	.04	.03	4252	94	1
" " "	-6.35 -6.28	-6.15 -6.28	-6.27	13 6.0	.03	.04	.07	.06	"	"	2
" 12. 11.	-5.90 -5.79	-5.86 -5.92	-5.86	13 55.0	.06	.05	.03	.03	4270	94	85
" " "	-6.07 -6.13	-5.89 -5.95	-6.01	14 02.0	.03	.03	.03	.03	"	"	86
" 12. 16	-5.90 -6.02	-5.62 -5.61	-5.79	13 21.5	.06	.06	.00	.01	4275	94	94
" " "	-5.79 -5.61	-5.85 -5.70	-5.74	13 30.5	.09	.09	.07	.08	"	"	95
" 12. 21	-5.78 -5.56	-6.23 -6.18	-5.94	15 48.5	.09	.09	.03	.02	4280	94	132
" " "	-5.92 -5.99	-5.63 -5.52	-5.77	15 55.0	.04	.03	.05	.06	"	"	133
" 12. 23	-5.72 -5.64	-5.99 -5.89	-5.81	13 37.5	.04	.04	.05	.05	4282	94	135
" " "	-5.83 -5.90	-5.68 -5.75	-5.79	13 48.0	.03	.04	.04	.03	"	"	136
" 12. 24	-5.87 -5.80	-5.58 -5.62	-5.72	12 36.5	.03	.04	.02	.02	4283	94	143
" " "	-5.62 -5.61	-5.67 -5.70	-5.65	12 46.5	.00	.01	.01	.02	"	"	144
" 12. 27	-5.58 -5.32	-5.38 -5.43	-5.42	12 38.0	.13	.13	.02	.03	4286	94	159
" " "	-5.44 -5.44	-5.36 -5.43	-5.41	12 45.5	.01	.02	.04	.03	"	"	160

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Page	Av. Dev.	A-B	Magn. Obsti.	Mean	
53	±.015	+.13	7.96	7.95	.019
54	±.022	+.08	7.94		
5	±.018	+.12	5.40	5.40	.011
6	±.005	+.04	5.40		
17	±.052	+.02	5.17	5.17	.022
18	±.002	-.02	5.17		
27	±.025	+.16	4.98	5.00	.029
28	±.032	+.02	5.03		
89	±.020	-.10	4.39	4.41	.035
90	±.050	-.04	4.43		
54	±.032	-.07	3.80	3.81	.031
55	±.030	+.16	3.82		
00	±.075	-.01	3.62	3.58	.072
.01	±.070	+.03	3.54		
1	±.050	.00	2.98	2.96	.050
2	±.050	-.10	2.93		
85	±.042	+.05	3.34	3.26	.036
86	±.030	+.18	3.19		
94	±.032	+.34	3.41	3.44	.028
95	±.082	+.08	3.46		
2	±.058	+.53	3.26	3.34	-.051
33	±.045	+.38	3.43		
35	±.045	+.26	3.39	3.40	.040
36	±.035	+.14	3.41		
43	±.028	-.24	3.48	3.52	.019
44	±.010	-.06	3.55		
59	±.078	-.05	3.78	3.78	Phot. in new way Pencils together see Record Bk. .051
60	±.025	+.02	3.79		

Continued on page 56.

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1897phae.proj..4460

Continued from page 54.

o Ceti (Continued) Phot. R.

Comparison Star = S.D. -3° #355 (9.0) = 9.2 0.

Date.	Tabular Quantity		Diff. Magn.	Gr. M. T.	Residuals.		Jul. Day	Book & Page.		Ga
1897. 12. 27.	-5.45 a -5.36	-5.53 b -5.50	-5.446	13 27.5	.05 .04	.01 .02	4286	94	161	±
" " "	-5.43 b -5.54	-5.36 -5.48	-5.445	13 36.0	.05 .06	.06 .06	"	"	162	±
1898 1. 8.	-5.06 a -5.02	-5.05 b -5.16	-5.07	13 40.5	.02 .02	.05 .06	4298	95	82	±
" " "	-5.15 b -5.06	-5.00 a -4.98	-5.04	13 53.0	.05 .04	.01 .01	"	"	83	±
1. 10	-4.94 a -4.95	-4.87 b -4.88	-4.91	13 14.5	.00 .01	.01 .00	4300	95	102	±
" "	-4.85 b -4.86	-4.91 a -4.86	-4.87	13 24.5	.01 .00	.03 .02	"	"	103	±
1. 19.	-4.48 a -4.48	-4.48 b -4.48	-4.48	13 2.0	.00 .00	.00 .00	4309	95	144	
" "	-4.48 b -4.48	-4.47 a -4.48	-4.48	13 11.5	.00 .00	.01 .00	"	"	145	±
1. 28	-4.21 b -4.19	-4.02 a -4.02	-4.11	13 03.0	.01 .01	.00 .00	4318	95	174	±
" "	-4.03 a -3.96	-4.11 b -4.12	-4.06	13 13.0	.03 .04	.01 .00	"	"	175	±
2. 3.	-3.74 b -3.79	-3.85 b -3.82	-3.79	13 7.0	.02 .03	.01 .02	4324	95	183	±
" "	-3.86 b -3.85	-3.81 a -3.81	-3.84	13 19.0	.00 .01	.00 .00	"	"	184	±
2. 4.	-3.81 b -3.77	-3.75 a -3.74	-3.76	12 7.0	.02 .02	.01 .00	4325	95	195	±
" "	-3.72 a -3.76	-3.80 b -3.76	-3.76	12 19.5	.02 .02	.02 .02	"	"	196	±
2. 17.	-3.39 b -3.24	-3.24 a -3.22	-3.28	12 38.0	.07 .08	.01 .01	4338	96	10	±
" "	-3.23 a -3.28	-3.28 b -3.27	-3.27	12 47.0	.03 .02	.00 .01	"	"	11	±
2. 25.	-2.86 b -2.87	-2.94 a -2.85	-2.88	12 36.0	.00 .01	.04 .05	4346	96	31	±
" "	-2.89 a -2.92	-2.81 b -2.84	-2.86	12 49.5	.01 .02	.01 .02	"	"	32	±
2. 28	-2.81 b -2.81	-2.76 a -2.81	-2.80	12 31.5	.00 .00	.02 .03	4349	96	51	±
" "	-2.67 a -2.74	-2.84 b -2.86	-2.75	12 41.0	.03 .04	.01 .01	"	"	52	±
3. 8	-261 a -262	-255 b -260	-2.60	11 57.2	.01 .00	.03 .02	4357	96	128	±
" "	-259 b -259	-260 a -260	-2.60	12 06.7	00 00	00 00	"	"	129	±
" "	-260 a -259	-251 b -257	-257	12 15.2	.00 .01	00 00	"	"	130	±
3. 11.	-2.34 b -2.39	-2.42 a -2.42	-2.39	12 19.0	.02 .03	.00 .00	4360	96	186	±
" "	-2.42 a -2.42	-2.40 b -2.42	-2.42	12 27.5	.00 .00	.01 .01	"	"	187	±
3. 14	-2.37 b -2.36	-2.27 a -2.35	-2.34	12 05.0	.01 .00	.04 .04	4363	96	193	±
" "	-2.29 a -2.37	-2.39 b -2.30	-2.33	12 15.0	.04 .04	.05 .04	"	"	194	±
10. 24	-6.59 a -6.51	-6.40 b -6.46	-6.49	15 50.1	.04 .04	.03 .03	4557	101	90	±
" "	-6.51 b -6.51	-6.40 a -6.46	-6.47	15 58.6	.00 .00	.03 .03	"	"	91	±

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gs.	Cor. Dev.	A-B	Magn. obsti	Means	
1	±.030	+.12	3.74	3.74	Phot. in the old way. Pencils overlapping 2½. See Record Book. R #.0472 Phot. R.
2	±.058	+.06	3.75		" " " " " " " " " " " " " "
2	±.038	−.06	4.13	4.14	±.0325
3	±.028	−.11	4.16		
2	±.005	−.06	4.29	4.31	±.0100
3	±.015	−.02	4.33		
44	.000	.00	4.72	4.72	±.0012
45	±.002	.00	4.72		
44	±.005	+.18	5.09	5.12	±.0125
45	±.020	+.12	5.14		
53	±.020	+.08	5.41	5.38	±.011
54	±.002	−.05	5.36		
95	±.012	+.05	5.44	5.44	±.016
96	±.020	+.04	5.44		
10	±.042	+.09	5.92	5.92	
11	±.015	+.02	5.93		
31	±.025	−.04	6.32	6.33	
32	±.015	−.08	6.34		
51	±.012	+.03	6.40	6.41	
52	±.022	+.15	6.42		
28	±.015	−.04	6.60		
29	±.000	−.01	6.60	6.63	
30	±.002	−.09	6.69		
6	±.012	−.06	6.81	6.80	
7	±.005	−.01	6.78		
3	±.022	+.05	6.86	6.86	
94	±.042	+.01	6.87		
0	±.035	−.12			
1	±.015	+.08			

Com. on p. 94.

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SS Cygni. Phot. A.

Comparison star = m = 8.93 Sept 27, 1897.

Gr. Mean Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.
	b	+1.98	+.05		b	+1.89	−.03		b	+1.76	+.02
		+1.88	−.05			+1.94	+.02			+1.72	−.02
17 16 30		+1.93	±.050	18 5 41		+1.92	±.025	19 29 21		+1.74	±.020
0.7195	a	+1.97	−.04	0.7539	a	+1.96	+.01	0.8120	a	+1.74	−.10
		+2.05	+.04			+1.94	−.01			+1.94	+.10
		+2.01	±.040			+1.95	±.010			+1.84	±.100
	+.08	+1.97	±.045		+.03	+1.94	±.018		+.10	+1.79	±.060
	a	+2.03	+.01		a	+1.96	.00		a	+1.81	+.01
		+2.01	−.01			+1.97	+.01			+1.78	−.02
17 24 48		+2.02	±.010	18 13 19		+1.96	±.010	19 36 35		+1.80	±.015
0.7256	b	+2.05	+.05	0.7592	b	+1.95	−.01	0.8171	b	+1.72	+.02
		+1.95	−.05			+1.98	+.02			+1.69	−.01
		+2.00	±.050			+1.96	±.015		+.10	+1.70	±.015
	+.02	+2.01	±.030		.00	+1.96	±.012			+1.75	±.015
	b	+2.03	+.04		b	+1.81	−.07		b	+1.63	−.03
		+1.95	−.04			+1.96	+.08			+1.69	+.03
17 41 54		+1.99	±.040	18 39 40		+1.88	±.075	19 45 51		+1.66	±.030
0.7374	a	+2.08	−.02	0.7775	a	+2.03	.00	0.8235	a	+1.85	+.05
		+2.13	+.03			+2.03	.00			+1.74	−.06
		+2.10	±.025			+2.03	.00			+1.80	±.055
	+.11	+2.04	±.032		+.15	+1.96	±.038		+.14	+1.73	±.042
	a	+2.04	−.02		a	+1.97	+.03		a	+1.81	+.01
		+2.09	+.03			+1.91	−.03			+1.79	−.01
17 49 13		+2.06	±.025	18 46 7		+1.94	±.030	19 54 3		+1.80	±.010
0.7425	b	+1.88	−.02	0.7820	b	+1.73	−.03	0.8292	b	+1.65	+.01
		+1.91	+.01			+1.78	+.02			+1.63	−.01
		+1.90	±.015			+1.76	±.025			+1.64	±.010
	+.16	+1.98	±.020		+.18	+1.85	±.028		+.16	+1.72	±.010

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S S Cygni. Phot. T.

Sept 27, 1897. Comparison star = m = 8.93

Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.
	a	+1.56	.00		b	+1.22	−.04		b	+1.28	+.01
		+1.55	−.01			+1.31	+.05			+1.26	−.01
20 10 50		+1.56	±.005	21 3 8		+1.26	±.045	21 38 36		+1.27	±.010
0.8408				0.8772				0.9018			
	b	+1.49	−.07		a	+1.37	+.03		a	+1.25	+.03
		+1.63	+.07			+1.31	−.03			+1.20	−.02
		+1.56	±.070			+1.34	±.030			+1.22	±.025
.00		+1.56	±.038	+.08		+1.30	±.038	−.05		+1.24	±.018
	b	+1.56	−.01		a	+1.22	+.02				
		+1.58	+.01			+1.19	−.01				
20 18 19		+1.57	±.010	21 12 14		+1.20	±.015				
0.8460				0.8835							
	a	+1.49	−.05		b	+1.25	+.03				
		+1.59	+.05			+1.19	−.03				
		+1.54	±.050			+1.22	±.030				
−.03		+1.56	±.030	−.02		+1.21	±.022				
	b	+1.34	−.03		b	+1.30	.00				
		+1.40	+.03			+1.30	.00				
20 48 18		+1.37	±.030	21 20 0		+1.30	.00				
0.8669				0.8889							
	a	+1.42	.00		a	+1.32	+.02				
		+1.43	+.01			+1.28	−.02				
		+1.42	±.010			+1.30	±.020				
+.05		+1.40	±.020	.00		+1.30	±.010				
	a	+1.38	+.01		a	+1.36	+.05				
		+1.36	−.01			+1.26	−.05				
20 56 10		+1.37	±.010	21 27 33		+1.31	±.050				
0.8723				0.8941							
	b	+1.42	+.02		b	+1.21	+.04				
		+1.39	−.01			+1.13	−.04				
		+1.40	±.015			+1.17	±.040				
−.03		+1.38	±.012	+.14		+1.24	±.045				

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Con from Book. 1.
L. V. A.

Tschadrom. Phot. I.

Comparison Star = DM. +26° #40 (7.5) = ~~8.20~~ = 8.08

Date.			Tabular Quantity.		Diff. Magn.	G.M.T.		Residuals.				Jul. Da.	Book & Page		a
97.	1.	23.	+3.46 b +3.54	+3.57 a +3.51	+3.52	12	54.0	.04	.04	.03	.03	241-3948	87	106	±
	"	"	+3.54 a +3.58	+3.28 b +3.29	+3.42	13	03.0	.02	.02	.00	.01	"	"	107	±
	9.	18	+4.91 b +4.70	+4.68 a +4.64	+4.73	14	23.5	.11	.10	.02	.02	4186	92	67	±
	"	"	+4.55 a +4.70	+4.79 b +4.86	+4.72	14	31.0	.07	.08	.03	.04	"	"	68	±
	9.	30.	+4.32 b +4.30	+4.45 a +4.21	+4.32	13	32.0	.01	.01	.12	.12	4198	92	155	±
	"	"	+4.28 a +4.19	+4.44 b +4.58	+4.38	13	41.0	.04	.05	.07	.07	"	"	156	±
	12.	11.	+0.54 a +0.56	+0.52 b +0.65	+0.56	14	42.5	.01	.01	.06	.07	4270	94	87	±
	"	"	+0.55 b +0.65	+0.40 a +0.49	+0.52	14	51.0	.05	.05	.04	.05	"	"	88	±
	12.	16.	+0.29 b +0.35	+0.30 a +0.32	+0.32	16	34.0	.03	.03	.01	.01	4275	94	97	±
	"	"	+0.33 a +0.36	+0.48 b +0.46	+0.38	16	44.0	.03	.04	.01	.01	"	"	98	±
	12.	18.	+0.20 b +0.27	+0.20 a +0.06	+0.18	14	59.5	.04	.03	.07	.07	4277	94	107	±
	"	"	+0.14 a +0.08	+0.32 b +0.24	+0.20	15	06.0	.03	.03	.04	.04	"	"	108	±
	12.	21	+0.17 b +0.27	+0.05 a -0.04	+0.11	15	8.5	.05	.05	.05	.04	4280	94	130	±
	"	"	-0.17 a -0.05	+0.21 b +0.23	+0.06	15	14.5	.06	.06	.01	.01	"	"	131	±
	12.	23	+0.02 b +0.10	-0.05 a -0.11	-0.01	14	22.5	.04	.04	.03	.03	4282	94	137	±
	"	"	-0.11 a -0.08	+0.19 b +0.19	+0.04	14	32.0	.01	.02	.00	.00	"	"	138	±
	12.	24	+0.03 a -0.05	-0.03 b +0.06	0.00	14	25.5	.04	.04	.05	.04	4283	94	149	±
	"	"	+0.10 b +0.16	-0.08 a -0.16	0.00	14	35.0	.03	.03	.04	.04	"	"	150	±
	12.	27	-0.14 a -0.20	0.00 b +0.01	-0.08	15	30.5	.03	.03	.00	.01	4286	94	169	±
	"	"	+0.06 b +0.19	-0.10 a -0.08	+0.02	15	38.0	.06	.07	.01	.01	"	"	170	±
1898.	1.	3.	-0.04 b -0.03	-0.19 a -0.19	-0.12	12	30.0	.00	.01	.00	.00	4293	95	17	±
	"	"	-0.23 a -0.21	+0.11 b +0.08	-0.06	12	37.5	.01	.01	.01	.02	"	"	18	±
	1.	5.	-0.11 a -0.12	+0.07 b +0.16	0.00	5	53.0	.01	.00	.05	.04	4295	95	54	±
	"	"	+0.23 b +0.08	-0.14 a 0.00	+0.04	16	1.5	.07	.08	.07	.07	"	"	55	±
	1.	8	+0.19 b +0.11	-0.05 a 0.00	+0.06	15	23.0	.04	.04	.03	.02	4298	95	90	±
	"	"	+0.01 a -0.02	+0.02 b +0.12	+0.04	15	32.0	.01	.02	.05	.05	"	"	91	±
	1.	18	+0.26 b +0.44	+0.30 a +0.32	+0.30	13	16.0	.09	.09	.01	.01	4308	95	138	±
	"	"	+0.29 a +0.24	+0.48 b +0.59	+0.40	13	26.0	.03	.02	.06	.05	"	"	139	±
	"	"	+0.46 b +0.42	+0.31 a +0.29	+0.37	13	34.0	.02	.02	.01	.01	"	"	140	±

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Page	Av. Dev.	A-B.	Magn. Tandrom	Mean
6	±.035	+.04	11.72	11.67
7	±.012	+.28	11.62	
7	±.062	−.14	12.93	12.92
8	±.055	−.20	12.92	
5	±.065	+.02	12.52	12.55
6	±.058	−.27	12.58	
7	±.038	−.03	8.76	8.74
8	±.048	−.16	8.72	
7	±.020	−.01	8.52	8.53
8	±.022	−.17	8.58	
7	±.052	−.11	8.38	8.39
8	±.035	−.17	8.40	
0	±.048	−.22	8.31	8.28
1	±.035	−.33	8.26	
37	±.035	−.14		
38	±.008	−.29		
49	±.042	−.03		
50	±.035	−.25		
69	±.018	−.17		
70	±.038	−.21		
17	±.002	−.15		
18	±.012	−.32		
54	±.025	.00		
55	±.072	−.23		
0	±.032	−.17		
1	±.032	−.07		
38	±.050	−.04		
39	±.040	−.28		
40	±.015	−.14		

(Continued on page 62.)

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Continued from page 60 of this book.

T Andromodae. Phot. T

Comparison Star = DM +26° #40 (7.5)

Date.	Tabular Quantity		Diff. Magn.	G.M.T.	Residuals.		Jul. Day	Book	Page	Au
1898. 1. 19.	+0.36 b +0.31	+0.48 a +0.43	+0.40	14 24.0	.01 .01	.02 .03	4309	95	147	±
" "	+0.35 a +0.33	+0.43 b +0.52	+0.41	14 45.5	.01 .01	.05 .04	"	"	148	±
1. 24.	+0.71 b +0.62	+0.66 a +0.71	+0.67	14 17.0	.05 .04	.02 .03	4314	95	161	±
" "	+0.64 a +0.74	+0.76 b +0.77	+0.73	14 22.0	.05 .05	.00 .01	"	"	162	±
1. 27.	+0.89 a +0.80	+0.93 b +0.80	+0.85	14 37.5	.05 .04	.07 .06	4317	95	165	±
" "	+0.79 b +0.86	+0.77 a +0.71	+0.78	14 43.5	.03 .04	.03 .03	"	"	166	±
1. 28	+0.99 b +1.05	+0.64 a +0.70	+0.84	14 39.5	.03 .03	.03 .03	4318	95	178	±
" "	+0.71 a +0.70	+0.95 b +0.96	+0.83	14 45.0	.01 .00	.01 .00	"	"	179	±
2. 3	+1.08 b +1.09	+1.02 a +0.95	+1.03	13 40.0	.00 .01	.04 .03	4324	95	185	±
" "	+0.94 a +1.00	+1.00 b +1.12	+1.02	13 49.5	.03 .03	.06 .06	"	"	186	±
2. 17.	+1.78 b +1.85	+1.70 a +1.73	+1.77	13 26.0	.04 .03	.02 .01	4338	96	12	±
" "	+1.73 a +1.69	+1.88 b +1.85	+1.78	13 38.5	.02 .02	.02 .01	"	"	13	±
2. 28	+2.45 b +2.60	+2.40 a +2.34	+2.44	12 59.0	.07 .08	.03 .03	4349	96	53	±
" "	+2.36 a +2.36	+2.47 b +2.46	+2.41	13 07.5	.00 .00	.01 .00	"	"	54	±
10 25	+0.63 a +0.70	+0.69 b +0.73	+0.68	15 31.5	.03 .04	.02 .02	4588	101	104	±
" "	+0.75 b +0.70	+0.54 a +0.61	+0.65	15 39.4	.03 .02	.04 .03	"	"	105	±
" 31	+0.70 b +0.79	+0.67 a +0.63	+0.70	15 48.6	.04 .05	.02 .02	4594	"	136	±
" "	+0.58 +0.59	+0.85 +0.78	+0.70	15 55.2	.00 .01	.03 .04	"	"	137	±
11 1	+0.73 a +0.75	+0.67 b +0.73	+0.72	15 07.9	.01 .01	.03 .03	4595	"	147	±
12 2	+2.00 a +2.02	+2.08 b +2.16	+2.06	15 4.5	.01 .01	.04 .04	4626	102	58	±
	+2.09 b +2.07	+2.10 a +1.97	+2.06	15 12.8	.01 .01	.06 .01	"	"	59	±
12 15	+2.82 b +2.74	+2.49 a +2.59	+2.66	15 41.3	.04 .04	.05 .05	4639	"	193	±
	+2.47 a +2.59	+2.80 b +2.77	+2.66	15 48.4	.06 .06	.02 .01	"	"	194	±
12 23	+2.92 a +3.07	+3.29 b +3.29	+3.14	16 13.7	.08 .07	.00 .00	4647	"	208	±
	+3.11 b +3.26	+2.89 a +2.96	+3.05	16 25.8	.07 .08	.03 .04	"	"	209	±
12. 28	+3.38 b +3.46	+3.20 a +3.16	+3.30	15 2.0	.04 .04	.02 .02	4652	103	4	±
	+3.23 a +3.14	+3.24 b +3.37	+3.24	15 13.9	.05 .04	.06 .07	"	"	5	±
1899. 1. 3.	+3.55 a +3.56	+3.63 b +3.63	+3.60	15 56.7	.04 .01	.00 .00	4658	103	30	±
	+3.73 b +3.66	+3.61 a +3.49	+3.60	16. 4.0	.07 .06	.06 .06	"	"	30	±

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Page	Av. Dev.	A-B	Magn. Androm.	Mean
7	±.018	+.11		
8	±.028	−.14		
1	±.035	+.02		
2	±.028	−.07		
5	±.055	−.02		
6	±.032	−.08		
8	±.030	−.35		
9	±.004	−.26		
5	±.020	−.10		
6	±.045	−.09		
2	±.025	−.10		
3	±.018	−.15		
53	±.052	−.15		
54	±.002	−.10		
04	±.028	−.05		
05	±030	−.14		
36	±.032	−09		
37	±.022	−.24.		
7	±.020	−.04		
8	±.025	−.11		Phot. T.
9	±.038	~~−.04~~		" J.
93	±.045	−.24		" J.
94	±.038	−.25		" J.
08	±.038	−.29		" J.
09	±.055	−.23		" J.
4	±.03	−.24		" J.
5	±.055	−.12		" J.
30	±.002	−.07		Continued on P158.
0	±.057	−.11		" J.

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S S Cygni. Phot. T.

Comparison Star = m = 8.93

Sept 25, 1897			Sept 29, 1897			Sept. 29, 1897		
Gr. M. Time.	Diff. Magn	Av. Dev.	Gr. M. Time.	Diff. Magn	Av. Dev.	Gr. M. Time.	Diff. Magn	Av. Dev.
	b −0.15	−.03		b −0.08	+.01		b −0.45	.00
	−0.08	+.04		−0.10	−.01		−0.45	.00
11 18 0	−0.12	±.035	16 10 29	−0.09	±.010	12 7 38	−0.45	.00
0.4708	a −0.27	−.01	0.6740	a −0.10	+.02	0.5053	a −0.43	−.02
	−0.24	+.02		−0.14	−.02		−0.39	+.02
	−0.26	±.015		−0.12	±.020		−0.41	±.020
+.14	−0.19	±.025	+.03	−0.10	±.015	−.04	−0.43	±.010
	a −0.18	−.03		a −0.17	−.02		a −0.44	−.02
	−0.12	+.03		−0.13	+.02		−0.40	+.02
11 25 23	−0.15	±.030	16 22 0	−0.15	±.020	12 15 37	−0.42	±.020
0.4760	b −0.26	+.02	0.6820	b −0.27	+.03	0.5108	b −0.55	−.01
	−0.29	−.01		−0.32	−.02		−0.54	.00
	−0.28	±.015		−0.30	±.025		−0.54	±.005
−.13	−0.22	±.022	−.15	−0.22	±.022	−.12	−0.48	±.012
	b −0.36	−.03		b −0.29	+.05		b −0.36	+.06
	−0.30	+.03		−0.39	−.05		−0.47	−.05
11 34 28	−0.33	±.030	16 31 1	−0.34	±.050	12 24 15	−0.42	±.055
0.4823	a −0.14	+.01	0.6882	a −0.31	+.07	0.5168	a −0.56	.00
	−0.16	−.01		−0.46	−.08		−0.56	.00
	−0.15	±.010		−0.38	±.075		−0.56	.00
−.18	−0.24	±.020	+.04	−0.36	±.062	−.14	−0.49	±.028
	a −0.29	−.03						
	−0.23	+.03						
11 44 31	−0.26	±.030						
0.4892	b −0.29	−.02						
	−0.25	+.02						
	−0.27	±.020						
−.01	−0.26	±.025						

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S S Cygni. Phot. G. 65

Comparison Star = m = 8.93

Sept. 30, 1897. Gr. M. Time	Diff. Magn.	Av. Dev.	Oct. 1, 1897. Gr. M. Time	Diff. Magn.	Av. Dev.	Oct. 2, 1897. Gr. M. Time	Diff. Magn.	Av. Dev.
	a -0.35	+.02		b -0.47	-.01		b -0.65	-.01
	-0.39	-.02		-0.44	+.02		-0.63	+.01
12 14 32	-0.37	±.020	16 19 41	-0.46	±.015	15 55 1	-0.64	±.010
0.5101	b -0.45	+.01	0.6863	a -0.43	+.01	0.6632	a -0.74	-.03
	-0.48	-.02		-0.46	-.02		-0.68	+.03
	-0.46	±.015		-0.44	±.015		-0.71	±.030
	+.09 -0.42	±.018		+.02 -0.45	±.015		-.07 -0.68	±.020
	b -0.51	-.05		a -0.49	-.01		a -0.49	+.07
	-0.42	+.04		-0.47	+.01		-0.63	-.07
12 20 20	-0.46	±.045	16 29 27	-0.48	±.010	16 4 16	-0.56	±.070
0.5141	a -0.51	-.01	0.6871	b -0.48	.00	0.6696	b -0.63	+.03
	-0.49	+.01		-0.48	.00		-0.69	-.03
	-0.50	±.010		-0.48	.00		-0.66	±.030
	-.04 -0.48	±.028		.00 -0.48	±.005		+.10 -0.61	±.050
	b -0140	.00						
	-0.41	-.01						
16 19 40	-0.40	±.005						
0.6803	a -0.42	.00						
	-0.41	+.01						
	-0.42	±.005						
	-.02 -0.41	±.005						
	a -0.31	+.07						
	-0.45	-.07						
16 24 40	-0.38	±.070						
0.6838	b -0.41	.00						
	-0.41	.00						
	-0.41	.00						
	+.03 -0.40	±.035						

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S S Cygni. Phot. G.

Comparison Star = m = 8.93

Oct. 4, 1897. Gr.	M. Time.		Diff. Magn	Av. Dev.	Oct. 6, 1897. Gr.	M. Time.		Diff. Magn	Av. Dev.	Oct. 9, 1897. Gr.	M. Time.		Diff. Magn	Av. Dev.	Gr
		b	-0.61	-.03			b	-0.40	.00			b	-0.02	-.02	
			-0.56	+.02				-0.40	.00				+0.03	+.03	
16	25	13	-0.58	±.025	16	16	32	-0.40	.000	16	4	25	0.00	±.025	16
	0.6842					0.6782					0.6697				
		a	-0.54	+.01			a	-0.40	-.04			a	+0.16	.00	
			-0.56	-.01				-0.32	+.04				+0.17	+.01	
			-0.55	±.010				-0.36	±.040				+0.16	±.005	
			+.03 -0.56	±.018				+.02 -0.38	±.020				+.16 +0.08	±.015	
		a	-0.46	-.01			a	-0.34	-.01			a	+0.14	+.04	
			-0.44	+.01				-0.32	+.01				+0.07	-.03	
16	30	51	-0.45	±.010	16	25	36	-0.33	±.010	16	11	54	+0.10	±.035	16
	0.6956					0.6845					0.6749				
		b	-0.58	+.02			b	-0.45	-.01			b	+0.19	+.04	
			-0.61	-.01				-0.43	+.01				+0.11	-.04	
			-0.60	±.015				-0.44	±.010				+0.15	±.040	
			+.15 -0.52	±.012				+.11 -0.38	±.010				-.05 +0.12	±.038	

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S S Cygni. Phot. G. 67

Comparison Star = m = 8.93

Oct. 13, 1897. (See page 101) Gr. M. Time		Diff. Magn.	Av. Dev.	Dec. 2, 1897. (See page 101) Gr. M. Time		Diff. Magn.	Av. Dev.	Dec. 11, 1897. Gr. M. Time		Diff. Magn.	Av. Dev.
	b	+1.62	+.06		b	-0.63	-.02		b	+2.34	+.06
		+1.50	-.06			-0.59	+.02			+2.22	-.06
16 6 12 (0.67/0)		+1.56	±.060	12 29 37		-0.61	±.020	12 34 38		+2.28	±.060
	a	+1.49	.00		a	-0.15	+.03		a	+2.73	-.04
		+1.49	.00			-0.20	-.02			+2.81	+.04
		+1.49	.000			-0.18	±.025			+2.77	±.040
	-.04	+1.52	±.015		+.43	-0.40	±.022		+.49	+2.52	±.050
	a	+1.52	-.03		a	-0.25	-.04		a	+2.97	+.06
		+1.58	+.03			-0.17	+.04			+2.85	-.06
16 12 20 (0.67/52)		+1.55	±.030	12 35 27		-0.21	±.040	12 42 30		+2.91	±.060
	b	+1.53	+.02		b	-0.40	+.12		b	+2.34	-.01
		+1.49	-.02			-0.63	-.11			+2.36	+.01
		+1.51	±.020			-0.52	±.115			+2.35	±.010
	+.02	+1.53	±.025		+.31	-0.36	±.078		+.56	+2.63	±.035
					b	-0.49	-.01		b	+2.47	+.03
						-0.46	+.02			+2.40	-.04
				12 42 5		-0.48	±.015	12 51 14		+2.44	±.035
					a	-0.23	-.05		a	+2.77	-.07
						-0.14	+.04			+2.91	+.07
						-0.18	±.045			+2.84	±.070
					+.30	-0.33	±.030		+.40	+2.64	±.052
					a	-0.21	+.01				
						-0.24	-.02				
				12 48 30		-0.22	±.015				
					b	-0.46	-.02				
						-0.43	+.01				
						-0.44	±.015				
					+.22	-0.33	±.015				

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γ Delphini. Phot. T.

Comparison Star = a = 9.27

Oct. 5, 1897

Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr.
	b	+0.19	-.07		b	+0.34	+.03		b	+0.57	-.03	
		+0.32	+.06			+0.28	-.03			+0.62	+.02	
13 24 46		+0.26	±.065	14 7 18		+0.31	±.030	14 42 13		+0.60	±.025	15
0.5589				0.5884				0.6126				
−0.8285	a	+0.35	-.01	−0.8285	a	+0.51	-.03	−0.8285	a	+0.78	-.03	
−0.2696				−0.2401				−0.2159				
−6 28		+0.38	+.02	−5 46		+0.58	+.04	−5 11		+0.84	+.03	
		+0.36	±.015			+0.54	±.035			+0.81	±.030	
		9.58				9.69				9.97		
+.10		+0.31	±.040	+.23		+0.42	±.032	+.21		+0.70	±.028	
	a	+0.41	-.03		a	+0.52	-.01		a	+0.82	+.02	
		+0.46	+.02			+0.54	+.01			+0.78	-.02	
13 34 9		+0.44	±.025	14 15 26		+0.53	±.010	14 57 56		+0.80	±.020	15
0.5659				0.5940				0.6235				
−0.8285	b	+0.14	-.01	−0.8285	b	+0.53	+.03	−0.8285	b	+0.79	+.03	
−0.2626				−0.2345				−0.2050				
−6 18		+0.16	+.01	−5 35		+0.48	-.02	−4 55		+0.74	-.02	
		+0.15	±.010			+0.50	±.025			+0.76	±.025	
		9.57				9.79				10.05		
+.29		+0.30	±.018	+.03		+0.52	±.018	+.04		+0.78	±.022	
	b	+0.26	-.02		b	+0.50	.00		b	+0.72	-.06	
		+0.29	+.01			+0.50	.00			+0.83	+.05	
13 42 24		+0.28	±.015	14 24 47		+0.50	.00	15 7 16		+0.78	±.055	15
0.5711				0.6006				0.6301				
−0.8285	a	+0.36	-.02	−0.8285	a	+0.56	-.02	−0.8285	a	+0.85	-.01	
−0.2574				−0.2279				−0.1984				
−6 11		+0.41	+.03	−5 25		+0.60	+.02	−4 46		+0.88	+.02	
		+0.38	±.025			+0.58	±.020			+0.86	±.015	
		9.60				9.81				10.09		
+.10		+0.33	±.020	+.08		+0.54	±.010	+.08		+0.82	±.035	
	a	+0.42	-.01		a	+0.55	-.03		a	+0.92	-.02	
		+0.44	+.01			+0.61	+.03			+0.97	+.03	
13 57 26		+0.43	±.010	14 32 35		+0.58	±.030	15 15 22		+0.94	±.025	15
0.5815				0.6060				0.6357				
−0.8285	b	+0.38	-.04	−0.8285	b	+0.56	-.02	−0.8285	b	+0.89	.00	
−0.2470				−0.2225				−0.1928				
−5 56		+0.46	+.04	−5 20		+0.61	+.03	−4 38		+0.89	.00	
		+0.42	±.040			+0.58	±.025			+0.89	.00	
		9.60				9.85				10.19		
+.01		+0.42	±.025	.00		+0.58	±.028	+.05		+0.92	±.012	

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γ Delphini. Phot. I.

Comparison Star = a = 9.27

Oct. 5, 1897.

Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.
	b +0.91	-.01		b +1.22	-.03		b +1.90	+.06
	+0.92	.00		+1.28	+.03		+1.78	-.06
15 23 29	+0.92	±.005	16 5 44	+1.25	±.030	16 50 24	+1.84	±.060
0.6413'			0.6706'			0.7017'		
-0.8285	+1.01	-.01	-0.8285	+1.36	-.03	-0.8285	+1.86	-.10
-0.1872 a			-0.1579 a			-0.1268 a		
-4 30'	+1.04	+.02	-3 47'	+1.42	+.03	-3 3'	+2.05	+.09
	+1.02	±.015		+1.39	±.030		+1.96	±.095
+.10	10.24 +0.97	±.010	+.14	10.59 +1.32	±.030	+.12	11.17 +1.90	±.078
	a +1.06	-.05		a +1.444	.00		a +2.08	-.01
	+1.16	+.05		+1.444	.00		+2.10	+.01
15 39 39	+1.11	±.050	16 14 18	+1.444	.00	17 6 53	+2.09	±.010
0.6725'			0.6766'			0.7131'		
-0.8285	+1.08	.00	-0.8285	+1.47	-.02	-0.8285	+2.28	+.03
-0.1760 b			-0.1519 b			-0.1154 b		
-4 13'	+1.09	+.01	-3 39'	+1.51	+.02	-2 46'	+2.22	-.03
	+1.08	±.005		+1.449	±.020		+2.25	±.030
+.03	10.37 +1.10	±.028	-.05	10.73 +1.46	±.010	-.16	11.44 +2.17	±.020
	b +1.10	-.02		b +1.43	-.01		b +2.21	-.05
	+1.15	+.03		+1.444	.00		+2.31	+.05
15 46 5	+1.12	±.025	16 26 41	+1.444	±.005	17 15 31	+2.26	±.050
0.6570'			0.6852'			0.7191'		
-0.8285	+1.13	-.01	-0.8285	+1.61	-.05	-0.8285	+2.28	-.06
-0.1715 a			-0.1433 a			-0.1094 a		
-4 7'	+1.14	.00	-3 26'	+1.70	+.04	-2 38'	+2.41	+.07
	+1.14	±.005		+1.66	±.045		+2.34	±.065
+.02	10.40 +1.13	±.015	+.22	10.82 +1.55	±.025	+.08	11.57 +2.36	±.058
	a +1.20	-.02		a +1.62	-.04		a +2.35	-.01
	+1.23	+.01		+1.71	+.05		+2.36	.00
15 55 39	+1.22	±.015	16 39 43	+1.66	±.045	17 24 7	+2.36	±.005
0.6636'			0.6942'			0.7251'		
-0.8285	+1.17	-.03	-0.8285	+1.79	+.03	-0.8285	+2.35	+.01
-0.1649 b			-0.1343 b			-0.1034 b		
-3 57'	+1.23	+.03	-3 13'	+1.74	-.02	-2 29'	+2.32	-.02
	+1.20	±.030		+1.76	±.025		+2.34	±.015
+.02	10.48 +1.21	±.023	-.10	10.98 +1.71	±.035	+.02	11.62 +2.35	±.010

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N Delphini.

Oct. 5, 1897

Gr. M. Time.		Diff Magn	Av Dev.
	b	+2.45	−.05
		+2.55	+.05
17 32 23		+2.50	±.050
0.7308			
−0.8285	a	+2.32	−.09
−0.0977		+2.50	+.09
−2 21		+2.41	±.090
		11.73	
−.09		+2.46	±.070

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Continued from Book I. Page 150.

M.P. 441. Phot. R.

Comp. Star = DM. +62° 594 (9.2) = 9.18 (Assumed)

Date.	Tabular Quantity		Mean.	Gr. M.T.	Residuals				J.D. 241	Bk.	Pg.	
97. 10. 6	-1.42 a -1.31	-1.21 b -1.31	-1.31	14	13.0	.06	.05	.05 .05	4204	92	222	±
" " "	-1.31 b -1.34	-1.33 a -1.32	-1.32	14	34.0	.01	.02	.01 .00	"	"	223	±
11. 6.	-1.25 b -1.28	-1.19 a -1.26	-1.24	12	46.0	.01	.02	.03 .04	4235	93	192	±
" "	-1.22 a -1.25	-1.23 b -1.13	-1.21	12	55.5	.02	.01	.05 .05	"	"	193	±
1898. 1. 8.	-1.57 a -1.54	-1.64 b -1.54	-1.58	14	51.5	.01	.02	.05 .05	4298	95	88	±
" " "	-1.61 b -1.61	-1.54 a -1.50	-1.56	14	58.5	.00	.00	.02 .02	"	"	89	±
" 2. 3.	-1.45 a -1.43	-1.51 b -1.50	-1.47	15	59.0	.01	.01	.01 .00	4324	95	190	±
" " "	-1.54 b -1.57	-1.50 a -1.47	-1.52	16	06.0	.02	.01	.02 .01	"	"	191	±
" 3 8	-1.50 a -1.52	-1.30 b -1.34	-1.44	15	10.2	.01	.02	.01 .00	4307	96	138	±
" " "	-1.34 b -1.32	-1.49 a -1.49	-1.41	15	18.2	.01	.01	.00 .00	"	"	139	±
" 4. 6.	-1.38 a -1.34	-1.37 b -1.38	-1.37	15	01.5	.02	.02	.01 .00	4386	97	121	±
" " "	-1.39 b -1.39	-1.44 a -1.40	-1.40	15	09.0	.00	.00	.02 .02	"	"	122	±
" 9 28	-1.22 a -1.34	-1.42 b -1.41	-1.35	14	34.1	.06	.06	.00 .01	4560	100	136	±
" " "	-1.48 -1.43	-1.23 -1.21	-1.34	14	39.9	.02	.03	.01 .01	"	"	137	±
" 9 29	-1.30 b -1.27	-1.35 a -1.37	-1.32	12	45.1	.02	.01	.01 .01	4561	"	142	±
" " "	-1.32 a -1.29	-1.32 b -1.30	-1.30	12	52.4	.02	.01	.01 .01	"	"	143	±
" 10 31	-1.06 b -1.21	-1.12 a -1.04	-1.11	14	07	.08	.07	.04 .04	4594	101	129	±
" " "	-1.16 a -1.00	-1.08 b -1.03	-1.07	14	7.0	.08	.08	.02 .03	"	"	130	±
" 11 23	-0.67 a -0.61	-0.68 b -0.73	-0.67	12	33.5	.03	.03	.02 .03	4617	102	28	±
" " "	-0.79 -0.86	-0.78 -0.68	-0.73	12	44.8	.03	.04	.05 .05	"	"	29	±
98 11 29	-0.43 b -0.44	-1.21 a -1.17	-0.82	14	45.2	.01	.00	.02 .02	4623	"	67	±
" " "	-1.17 a -1.18	-0.99 b -0.97	-0.98	14	54.7	.01	.00	.21 .21	"	"	68	±
98 12 1	-0.93 b -0.91	-0.62 a -0.57	-0.76	15	41.1	.01	.01	.03 .03	4625	"	82	±
98 12 28.	-1.14 a -1.16	-1.08 b -1.13	-1.12	15	54.6	.01	.01	.02 .03	4652	103	6	±
" " "	-1.17 b -1.14	-1.10 a -1.11	-1.13	16	3.5	.01	.02	.00 .01	4652	"	7	±
99 2 25	-1.02 b -0.89	-1.03 a -0.90	-0.96	13	27.2	.06	.07	.07 .06	4711	104	105	±
" " "	-0.89 a -0.93	-0.93 b -0.88	-0.90	13	34.7	.02	.02	.03 .02	4711	"	106	±
" 3 24	-0.84 b 0.88	-0.92 a -0.76	-0.85	16	1.0	.02	.02	.08 .08	4738	105	33	±
" 3 24	-0.87 a -0.82	-0.86 -0.91	-0.86	16	9.2	.03	.02	.02 .02	"	"	34	

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1897phae..proj..4460

Eq.	Av. Dev.	A-B	Magn. M.P.4441	Mean
22	±.052	-.10	7.87	7.86
23	±.010	.00	7.86	
2	±.025	+.04	7.94	7.96
13	±.032	-.06	7.97	
8	±.032	-.03	7.60	7.61
9	±.010	-.09	7.62	
0	±.007	+.06	7.71	7.68
1	±.015	+.08	7.66	
8	±.010	-.20	7.74	
9	±.005	-.16	7.77	7.76
1	±.012	+.02	7.81	
2	±.010	-.03	7.78	7.80
6	±.032	+.14		
7	±.018	+.24		
2	±.012	-.08		
3	±.012	+.01		
9	±.058	+.06		
0	±.052	-.02		
8	±.028	+.06		
9	±.042	+.09		
7	±.015	-.75		
8	±.01	-.40		
2	±.018	+.82		
	±.018	-.05		
	±.01	+.06		
5	±.032	.00		
6	±.022	-.01		
3	±.05	+.02		
4		+.04		

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1897phae.proj..4460

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1897plae..prof..4460

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1897phae.proj..4460

W Delphini. Phot A.

Comparison Star = a = 9.27

Oct. 15, 1897.

R. 93. p 32.

Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr.
	b	+1.17	+.03		b	+1.07	+.01		b	+0.73	+.01	
		+1.10	−.04			+1.06	.00			+0.70	−.02	
12 34 24		+1.14	±.035	13 1 57		+1.06	±.005	13 27 17		+0.72	±.015	14
0.5239'				0.5431'				0.5606'				
−.4420	a	+1.32	−.02	−0.4420	a	+1.04	+.04	−0.4420	a	+0.76	+.02	
+0.0819				+0.1011				+0.1186				
+1 58		+1.36	+.02	+2 26		+0.95	−.05	+2 51		+0.73	−.01	
		+1.34	±.020			+1.00	±.045			+0.74	±.015	
		10.51				10.30				10.00		
+.20		+1.24	±.028	−.06		+1.03	±.025	+.02		+0.73	±.015	
	a	+1.22	−.02		a	+1.01	+.03		a	+0.77	+.05	
		+1.25	+.01			+0.95	−.03			+0.68	−.04	
12 42 3		+1.24	±.015	13 8 12		+0.98	±.030	13 33 51		+0.72	±.045	15
0.5294'				0.5473'				0.5652'				
−.4420	b	+1.24	+.03	−0.4420	b	+0.96	+.02	−0.4420	b	+0.73	+.03	
+0.0874				+0.1053				+0.1232				
+2 6		+1.18	−.03	+2 32		+0.92	−.02	+2 57		+0.67	−.03	
		+1.21	±.030			+0.94	±.020			+0.70	±.030	
		10.29				10.23				9.98		
+.03		+1.22	±.022	+.04		+0.96	±.025	+.02		+0.71	±.038	
	b	+1.12	−.02		b	+0.91	−.01					
		+1.15	+.01			+0.93	+.01					
12 48 7		+1.14	±.015	13 14 21		+0.92	±.010					15
0.5334'				0.5517'								
−.4420	a	+0.99	+.02	−0.4420	a	+0.87	+.03					
+0.0914				+0.1097								
+2 12		+0.95	−.02	+2 38		+0.82	−.02					
		+0.97	±.020			+0.84	±.025					
		10.33				10.15						
−.17		+1.06	±.018	−.08		+0.88	±.018					
	a	+0.98	−.02		a	+0.84	+.02					
		+1.02	+.02			+0.79	−.03					
12 55 57		+1.00	±.020	13 20 1		+0.82	±.025					15
0.5389'				0.5556'								
−0.4420	b	+1.08	.00	−0.4420	b	+0.79	−.01					
+0.0969				+0.1136								
+2 20		+1.07	−.01	+2 44		+0.81	+.01					
		+1.08	±.005			+0.80	±.010					
		10.31				10.08						
−.08		+1.04	±.012	+.02		+0.81	±.018					

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R. 93. p. 118. U Ephei. Phot. A.

Comparison star =

Oct. 26, 1897.

	Gr. M. Time		Diff. Magn	Av. Dev.	Gr. M. Time		Diff. Magn	Av. Dev.	Gr. M. Time		Diff. Magn	Av. Dev.
		b	-0.35	+.07		b	-0.03	-.03		b	+0.71	+.01
			-0.48	-.06			+0.03	+.03			+0.70	.00
15	14 59	26	-0.42	±.065	15 27	6	0.00	±.030	15 55	48	+0.70	±.005
	.6246				.6439				.6638			
	-.6605	a	-0.44	+.02	-.6605	a	+0.19	+.07	-.6605	a	+0.76	-.05
	-.0359				-.0166				+.0033			
	-51.7'		-0.48	-.02	-23.9'		+0.05	-.07	+4.7'		+0.86	+.05
			-0.46	±.020			+0.12	+.070			+0.81	±.050
	-.02		-0.44	±.042	+.12		+0.06	±.050	+.11		+0.76	±.028
		a	-0.48	-.04		a	+0.19	-.05		a	+0.78	.00
			-0.39	+.05			+0.29	+.05			+0.77	-.01
45	15 6	6	-0.44	±.045	15 33	26	+0.24	±.050	16 4	28	+0.78	±.005
	.6293				.6482				.6697			
	-.6605	b	-0.16	+.11	-.6605	b	+0.23	-.01	-.6605	b	+0.86	-.04
	-.0312				-.0123				+.0092			
	-44.9'		-0.38	-.11	-17.7'		+0.25	+.01	+13.3'		+0.93	+.03
			-0.27	±.110			+0.24	±.010			+0.90	±.035
	-.17		-0.36	±.078	.00		+0.24	±.030	-.12		+0.84	±.020
		b	-0.37	-.04		b	+0.33	-.07				
			-0.29	+.04			+0.47	+.07				
	15 13	40	-0.33	±.040	15 40	20	+0.40	±.070				
	.6345				.6530							
	-.6605	a	-0.11	+.03	-.6605	a	+0.36	-.04				
	-.0260				-.0075							
	-37.4'		-0.17	-.03	-10.9'		+0.43	+.03				
			-0.14	±.030			+0.40	±.035				
	+.19		-0.24	±.035	.00		+0.40	±.052				
		a	-0.19	-.05		a	+0.52	-.02				
			-0.08	+.06			+0.56	+.02				
	15 20	53	-0.14	±.055	15 47	58	+0.54	±.020				
	.6395				.6583							
	-.6605	b	-0.09	-.05	-.6605	b	+0.64	-.02				
	+.0210				-.0022							
	-30.3'		+0.01	+.05	- 3.1'		+0.68	+.02				
			-0.04	±.050			+0.66	±.020				
	-.10		-0.09	±.052	-.12		+0.60	±.020				

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U Cephei

Oct. 20, 1895.

G.M. Time		Diff. Magn.	Cur. Dev.
	b	-0.003	-.01
		0.00	+.02
14	51	59 -0.02	±.015
	a	+0.03	+.03
		-0.03	-.03
		0.00	±.030
		+.02 -0.01	±.022
	a	+0.10	-.06
		+0.22	+.06
15	2	41 +0.16	±.060
	b	+0.31	-.03
		+0.37	+.03
		+0.34	±.030
		-.18 +0.20	±.045
	b	+0.40	-.02
		+0.43	+.01
15	12	17 +0.42	±.015
	a	+0.39	+.01
		+0.36	-.02
		+0.38	±.015
		-.04 +0.40	±.015
	a	+0.47	-.03
		+0.52	+.02
15	22	15 +0.50	±.025
	b	+0.80	-.02
		+0.83	+.01
		+0.82	±.015
		-.32 +0.66	±.020

G.M. Time		Diff. Magn.	Cur. Dev.
	b	+0.78	-.04
		+0.87	+.05
15	38	14 +0.82	±.045
	a	+0.75	+.03
		+0.70	-.02
		+0.72	±.025
		-.10 +0.77	±.035

Oct. 25, 1895.

G.M. Time		Diff. Magn.	Cur. Dev.
	a	-.038	+.01
		-.040	-.01
14	21	15 -0.39	±.010
	b	-0.17	-.01
		-0.16	.00
		-0.16	-.005
		-.23 -0.27	±.008
	b	-0.02	.00
		-0.02	.00
14	29	26 -0.02	.000
	a	-0.11	-.02
		-0.08	+.01
		-0.09	±.015
		-.07 -0.06	±.008

G.M. Time		Diff. Magn.	Cur. Dev.
	a	-0.00	-.002
		+0.03	+.01
14	38	6 +0.02	±.015
	b	+0.20	-.01
		+0.26	+.00
		+0.26	-.005
		-.24 +0.14	±.010
	b	+0.52	+.10
		+0.33	-.01
14	40	36 +0.42	±.105
	a	+0.29	-.01
		+0.31	+.01
		+0.30	±.010
		-12 +0.[illegible]	±.058
	a	+0.38	-.03
		+0.44	+.03
14	53	21 +0.41	±.03
	b	+0.63	-.03
		+0.68	+.02
		+0.66	±.025
		-25 +0.54	±.028

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1997phae.proj.:4460

Variables Observed with Phots. R, T, V, and H.

Variable	R. A.	Dec.	Aperture.	Phot.	Comparison star.	Phot Magn.
T Androm.	0h 17m	+26° 26′	Full	T.	DM. +26° 40 (7.5)	8.08
U Cephei.	0 53	+81 20	Full	T.	DM. +81° 27 (8.6)	
o Ceti	2 14	− 3 26	Full	H.	SD. − 3°355 (9.0)	9.20
M.P. 441	3 33	+62 19	Full	R.	DM. +62° 594 (9.2)	9.18
Nova Aurigae	5 26	+30 22	Full	H.	Star s.	11.00
R Canis Maj.	7 15	−16 12	9.5 inches	T.	SD. −15° 1774 (9.1)	
S Cancri	8 38	+19 24	Full	T.	DM. +19° 2088 (9.0)	
S Antliae	9 28	−28 11	9.5 inches	T.	Cord. DM. −28° 7347 (8.7)	
S Librae.	14 53	− 7 56	9.5 inches	T.	SD. − 7° 3940 (9.0)	
S Urs. Min.	15 33	+78 58	Full	H.	DM. +79° 467 (9.4)	
Iapetus	16 20	−19 35	Full	T.		
U Ophiuchi	17 11	+1 19	Full	T.	DM. +1° 3411 (6.8)	
Z Herculis.	17 54	+15 09	Full	T.	DM. +15° 3316 (9.3)	
β Lyrae	18 45	+33 12	9.5 inches	H.	DM. +33° 3224 (8.5)	
Y Aquilae	19 02	+10 55	9.5 inches	T.	DM. +10° 3754 (8.5)	
H Delphini	20 33	+17 56	Full	T.	DM. +17° 4368 (9.1)	9.27
Y Cygni.	20 46	+34 07	Full	T.	DM. +33° 4062 (9.0)	
S Cephei.	21 36	+78 10	Full	T.	DM. +78° 759 (8.8)	9.08
S S Cygni.	21 39	+43 07	Full	T.	DM. +43° 4030 (8.6)	8.93
U Pegasi.	23 53	+15 24	Full	T.	DM. +15° 4916 (8.8)	
β Persei	3 02	+40 34	——	V.	ω Persei.	

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1897phae.proj..4460

U Pegasi. Phot. ℰ

E193.P133

Comparison star = D M +15° 4916 (8.8)

Oct 29, 1897

Gr. M. Time.				Diff. Magn.	Av. Dev.
			a	+0.41	-.08
				+0.57	+.08
13	39	41		+0.49	±.080
+6	+45	28			
-9	3	41	b	+0.38	-.01
-17	32				
-3	52			+0.40	+.01
+0	38				
				+0.39	±.010
				+0.44	±.045
		+10			
			b	+0.37	-.01
				+0.40	+.02
13	51	48		+0.38	±.015
+6	+45	28			
-2	53	40	a	+0.45	-.06
-17	32				
-3	40			+0.57	+.06
+0	50				
				+0.51	±.060
				+0.44	±.038
		+13			
			a	+0.50	.00
				+0.49	-.01
14	0	1		+0.50	±.005
+6	+45	28			
-2	45	29	b	+0.52	-.04
-17	32				
-3	32			+0.59	+.03
+0	58				
				+0.56	±.035
				+0.53	±.020
		-.06			
			b	+0.56	.00
				+0.55	-.01
14	8	15		+0.56	±.005
+6	+45	28			
-2	37	13		+0.55	-.01
-17	32				
-3	24			+0.58	+.02
+1	6				
				+0.56	±.015
		.00		+0.56	±.010

Gr. M. Time.				Diff. Magn.	Av. Dev.
			a	+0.53	-.05
				+0.64	+.06
14	17	1		+0.58	±.055
+6	+45	28			
-2	28	27		+0.51	-.05
-17	32				
-3	15			+0.61	+.05
+1	15				
				+0.56	±.050
				+0.57	±.052
		+02			
			b	+0.65	-.02
				+0.69	+.02
14	25	9		+0.67	±.020
+6	+45	28			
-2	20	19	a	+0.71	-.01
-17	32				
-3	7			+0.72	.00
+1	23				
				+0.72	±.005
				+0.70	±.012
		+05			
			a	+0.70	-.02
				+0.75	+.03
14	34	32		+0.72	±.025
+6	+45	28			
-2	16	5	b	+0.73	-.01
-17	32				
-2	57			+0.74	.00
+1	33				
				+0.74	±.005
				+0.73	±.015
		-.02			
			b	+0.81	-.07
				+0.94	+.06
14	43	10		+0.88	±.065
+6	+45	28			
-2	2	18	a	+0.78	-.04
-17	32				
-2	49			+0.87	+.05
+1	41				
				+0.82	±.045
		-.06		+0.85	±.055

Gr. M. Time.				Diff. Magn.	Av. Dev.
			a	+0.84	-.02
				+0.87	+.01
14	51	45		+0.86	±.015
+6	+45	28			
-1	53	37		+0.72	-.07
-17	32				
-2	40			+0.86	+.07
+1	50				
				+0.79	±.070
				+0.82	±.142
		+07			
			b	+0.77	-.01
				+0.80	+.02
15	0	28		+0.78	±.015
+6	+45	28			
+1	+45	0	a	+0.88	+.08
-17	32				
-2	32			+0.73	-.07
+1	58				
				+0.80	±.075
				+0.79	±.045
		+02			
			a	+0.70	-.07
				+0.84	+.07
15	8	40		+0.77	±.070
+6	+45	28			
+1	37	13	a	+0.88	+.05
-17	32				
-2	23			+0.78	-.05
+2	7				
				+0.83	±.050
				+0.80	±.060
		-.06			
			b	+0.75	-.01
				+0.78	+.02
15	20	17		+0.76	±.015
+6	+45	28			
+1	25	11	a	+0.82	+.03
-17	32				
-2	12			+0.76	-.03
+2	18				
				+0.79	±.030
		+03		+0.78	±.022

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1897phae.proj.:4460

U Pegasi. Phot. G.

Comparison star = D.M. +15° 4916 (8.8)

Oct. 29, 1897

	Gr. M. Time				Diff. Magn.	Av. Dev.	Gr. M. Time				Diff. Magn.	Av. Dev.	Gr. M. Time				Diff. Magn.	Av. Dev.
				a	+0.69	+.02				a	+0.54	+.01						
					+0.65	-.02					+0.52	-.01						
15	15	32	17		+0.67	±.020	16	8	32		+0.53	±.010						
	-16	-45	-28				-16	-45	-28									
7	-1	-13	-11	b	+0.67	+.03	-0	-37	-56	b	+0.45	-.03						
	-17	32					-17	32										
17	-2	0			+0.62	-.02	-1	-23			+0.52	+.04						
	+2	30					+3	7										
70					+0.64	±.025					+0.48	±.035						
42				+.03	+0.66	±.022				+.05	+0.50	±.027						
				b	+0.63	-.01				b	+0.47	+.01						
2					+0.64	.00					+0.44	-.02						
15	15	40	47		+0.64	±.005	16	16	36		+0.46	±.015						
	-16	-45	-28				-16	-45	-28									
8	-1	-4	-11	a	+0.69	+.02	-0	-28	-52	a	+0.44	+.02						
	-17	32					-17	32										
7	-1	51			+0.65	-.02	-1	+15			+0.41	-.01						
	+2	39					+3	13										
75					+0.67	±.020					+0.42	±.015						
45				+.03	+0.66	±.012				-.02	+0.44	±.015						
7				a	+0.56	+.02				a	+0.33	-.04						
					+0.52	-.02					+0.41	+.04						
10	15	49	3		+0.54	±.020	16	24	58		+0.37	±.040						
	-16	-45	-28				-16	-45	-28									
5	-0	-56	-25	b	+0.61	-.01	-0	-20	-30	b	+0.50	+.01						
	-17	32					-17	32										
5	-1	43			+0.63	+.01	-1	-7			+0.48	-.01						
	+2	47					+3	23										
50					+0.62	±.010					+0.49	±.010						
20				-.08	+0.58	±.015				-.12	+0.43	±.025						
1				b	+0.64	+.07												
2					+0.50	-.07												
15	15	57	13		+0.57	±.070												
	-16	-45	-28															
3	-0	-48	-15	a	+0.63	+.03												
	-17	32																
13	-1	35			+0.57	-.03												
	+2	55																
30			1		+0.60	±.030												
22				+.03	+0.58	±.050												

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1897phae..proj..4460

82

R 93. P. 164.

K Delphini. Phot. G.

Comp. Star = a = 9.27

Nov. 3, 1897

Gr. M. Time.		Diff. Magn.	Av. Dec.	Gr. M. Time.		Diff. Magn.	Av. Dec.	Gr. M. Time.		Diff. Magn.	Av. Dec.	G.
	a	+1.33	-.01		a	+1.72	-.04		a	+2.30	+.02	
		+1.34	.00			+1.80	+.04			+2.26	-.02	
12 15 48		+1.34	±.005	12 49 56		+1.76	±.040	13 22 24		+2.28	±.020	.13
0.5110				0.5346				0.5572				
-0.6696	b	+1.32	-.02	-0.6696	b	+1.77	-.03	-0.6696	b	+2.22	-.06	
-0.1586		+1.37	+.03	-0.1350		+1.84	+.04	-0.1124		+2.35	+.07	
-3h 48m		+1.34	±.025	-3 14		+1.80	±.035	-2 42		+2.28	±.065	
		10.61				11.05				11.55		
.00		+1.34	±.015	-.04		+1.78	±.038	.00		+2.28	±.042	
	b	+1.38	-.08		b	+1.95	.00		b	+2.36	.00	
		+1.54	+.08			+1.95	.00			+2.37	+.01	
12 24 53		+1.46	±.080	12 57 34		+1.95	.00	13 31 15		+2.36	±.005	
0.5173				0.5400				0.5633				
-0.6696	a	+1.47	+.04	-0.6696	a	+1.91	+.01	-0.6696	a	+2.31	-.07	
-0.1523		+1.39	-.04	-0.1296		+1.88	-.02	-0.1063		+2.44	+.06	
-3 39		+1.43	±.040	-3 6		+1.90	±.015	-2 33		+2.38	±.065	
		10.71				11.19				11.64		
-.03		+1.44	±.060	-.05		+1.92	±.008	+.02		+2.37	±.035	
	a	+1.52	+.02		a	+1.94	.00					
		+1.48	-.02			+1.94	.00					
12 32 0		+1.50	±.020	13 7 9		+1.94	.00					
0.5222				0.5466								
-0.6696	b	+1.49	-.06	-0.6696	b	+2.10	+.02					
-0.1474		+1.61	+.06	-0.1230		+2.06	-.02					
-3 32		+1.55	±.060	-2 57		+2.08	±.020					
		10.79				11.28						
-.05		+1.52	±.040	-.14		+2.01	±.010					
	b	+1.65	-.04		b	+2.10	+.01					
		+1.73	+.04			+2.08	-.01					
12 39 6		+1.69	±.040	13 14 46		+2.09	±.010					
0.5272				0.5520								
-0.6696	a	+1.67	+.01	-0.6696	a	+2.14	-.05					
-0.1424		+1.65	-.01	-0.1176		+2.24	+.05					
-3 25		+1.66	±.010	-2 49		+2.19	±.050					
		10.93				11.41						
-.03		+1.68	±.025	+.10		+2.14	±.030					

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1897phae..proj..4460

W Delphini

Dec. 2, 1895.

Dec	G.M. Time		Diff Magn	Av. Dev.	G M Time	Diff Magn	Av. Dev.	G M Time	Diff Magn	Av. Dev.
2		b	+0.90	+.01						
2			+0.88	-.01						
20	13	35	+0.89	±.010						
6		a	+0.68	+.05						
7			+0.48	-.05						
65			+0.53	±.087						
42			+0.71	±.030						
0										
1										
05										
7										
6										
65										
35										

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1897phae.proj..4460

continued from page 142.

S Cephei Phot. V.

Comparison Star = l = 9.08

Date.	Tabular Quantity.	Diff. Magn.	Gr. M. Time	Residuals.	J. D. 241	Bk & Page	Au

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1897phae.proj..4460

	Acc. Decr	A-B.	Comp. Star.	Mean.

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1897phae.proj..4460

Con. from p. 32

Sapeles. Plot. I.

1896.

Date	Tabular Quantity	Diff. Magn	Gr. m. Time	Resids.	J. D.	BK. + Page.
98. 6. 14	-2.29^{a} -2.36 -2.01^{b} -2.09	-2.18	16^{h} 33.3^{m}	.03 .04 .04 .04	4455	98. 1020.
" " "	-2.01^{b} -2.05 -2.30^{a} -2.28	-2.16	16 [illegible]	.02 .02 .01 .01	"	" "
" " 15	-2.28^{a} -2.27 -1.99^{b} -2.10	-2.16	16 32.6	.00 .01 .05 .06	4456	" 197
" " "	-2.07^{b} -2.10 -2.15^{a} -2.11	-2.10	16 40.6	.01 .02 .02 .02	"	" 198
~~" " "~~	~~-0.96^{a} 0.87 -1.10^{b} -1.09~~	~~-1.01~~	~~16 51.6~~	~~.04 .05 .00 .01~~	"	" ~~199~~
~~" " "~~	~~-1.06^{b} -1.14 -0.91^{a} -0.78~~	~~-0.97~~	~~16 23.6~~	~~.04 .04 .07 .06~~	"	" ~~200~~

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1897phae..proj..4460

	Eff 1·8	Comp. Star	magn Star	magn. Tapetus	mean Tapetus	
	-.27					
	-.26					
7	-.24					
98	-.05					
99	~~+.15~~					This was not Tapetus
00	~~+.26~~					" " " "

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1897phae.proj..4460

γ Delphini Phot. I.

Nov. 27. 1897.

Gr. m. I.	Diff. Incpn.	Av. Dev.	Gr. m. I.	Diff. Incpn.	Av. Dev.	Gr. m. I.	Diff. Incpn.	Av. Dev.
a	+1.10	-.02	a	+1.57	+.04	a	+2.03	-.03
	+1.13	+.01		+1.49	-.04		+2.10	+.04
12 32 43	+1.12	±.015	13 10 56	+1.53	±.040	13 52 1	+2.06	±.035
0.5227			0.5493			0.5778		
-0.7036			-0.7030			-0.7030		
-0.1803			-0.1537			-0.1252		
b -4 20	+0.97	-.05	b -3 41	+1.37	-.01	b -3 0	+2.02	-.07
	+1.08	+.06		+1.39	+.01		+2.16	+.07
	+1.02	±.055		+1.38	±.010		+2.09	±.070
	10.34			10.73			11.35	
+.10	+1.07	±.035	+.15	+1.46	±.025	-.03	+2.08	±.052
b	+1.00	-.04	b	+1.56	+.01	b	+2.10	+.02
	+1.09	+.05		+1.57	-.01		+2.05	-.03
12 41 1	+1.04	±.045	13 19 56	+1.55	±.010	14 1 9	+2.08	±.025
0.5285			0.5555			0.5841		
-0.7030			-0.7030			-0.7030		
-0.1743			-0.1475			-0.1189		
a -4 11	+1.12	-.04	a -3 32	+1.56	-.04	a -2 51	+2.21	-.03
	+1.19	+.03		1165	+.05		+2.26	+.02
	+1.16	±.035		+1.60	±.045		+2.24	±.025
	10.37			10.85			11.43	
+.12	+1.10	±.045	+.05	+1.58	±.028	+.16	+2.16	±.025
a	+1.17	-.03	a	+1.69	-.05	a	+2.41	-.04
	+1.23	+.03		+1.79	+.05		+2.49	+.04
12 49 36	+1.20	±.030	13 29 41	+1.74	±.050	14 17 43	+2.45	±.040
0.5344			0.5623			0.5956		
-0.7030			-0.7030			-0.7030		
-0.1686			-0.1407			-0.1074		
b -4 3	+1.11	-.05	b -3 23	+1.79	-.01	b -2 35	+2.28	-.04
	+1.20	+.04		+1.81	+.01		+2.37	+.05
	+1.16	±.045		+1.80	±.010		+2.32	±.045
	10.45			11.04			11.65	
+.04	+1.18	±.038	-.06	+1.77	±.030	+.13	+2.38	±.042
b	+1.22	-.02	b	+1.67	-.07	b	+2.29	-.03
	+1.25	+.01		+1.82	+.08		+2.36	+.04
13 0 30	+1.24	±.015	13 40 54	+1.74	±.075	14 28 47	+2.32	±.035
0.5420			0.5701			0.6033		
-0.7030			-0.7030			-0.7030		
-0.1610			-0.1329			-0.0997		
a -3 52	+1.37	-.05	a -3 11	+1.95	-.05	a -2 24	+2.64	.00
	+1.48	+.06		+2.05	+.05		+2.65	+.01
	+1.42	±.055		+2.00	±.050		+2.64	±.005
	10.60			11.14			11.75	
+.18	+1.33	±.035	+.26	+1.87	±.062	+.32	2.48	±.020

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γ Delphini. Phot. I.

Nov. 27. 1897.

Gr. m. T.		Diff. Mean	Str. Dev.	Gr. m. T.	Diff. Mean	Str. Dev.	Gr. m. T.	Diff. Mean	Str. Dev.
	a	+2.73	−.01						
		+2.74	.00						
14 39	25	+2.74	±.005						
0.6167									
−0.7030	+	+2.61	−.01						
−0.8923									
−2	13	+2.64	+.02						
		+2.62	±.015						
		11.95							
	+.12	+2.68	±.010						

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Miscellaneous.

Date.	Region.	Objects Compared.	Tabular Quantity		Diff Mag.	Gr. M.T.	
97. 11. 6.	ν Delphini.	a with Var.	-0.04 (a) +0.03	+0.11 (b) +0.09	+0.05	13 22.0	04
" " "	" "	" " "	+0.13 (b) +0.09	+0.05 (a) +0.06	+0.08	13 30.5	.02
" " "	" "	a " 10.5m	+1.69 (a) +1.61	+1.73 +1.67	+1.68	13 40.5	.04
" " "	" "	" " "	+1.61 (b) +1.66	+1.69 (a) +1.68	+1.66	13 53.5	.03
" " "	" "	Var. " 10.5m	+1.68 (a) +1.65	+1.56 (b) +1.70	+1.64	14 10.5	.02
" " "	" "	" " "	+1.55 (b) +1.56	+1.79 (a) +1.81	+1.68	14 21.5	.01
98. 4. 6.	S Antliae	x with A.G.C. Volume 12969	+1.85 (b) +1.86	+1.61 (a) +1.63	+1.74	13 48.5	.01
" " "	" "	" " " "	+1.62 (a) +1.60	+1.83 (b) +1.86	+1.72	13 59.0	.01
" " "	" "	" " " "	+1.83 (b) +1.84	+1.64 (a) +1.72	+1.76	14 12.0	.01

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T.	Residuals.				J.D. 24+	Bk.	& Page	Av. Dev.	A-B.	Mag.	Phot.
2.0	04	.03	.01	.01	4235	93	194	±.022	-.10		T.
0.5	.02	.02	.01	.00	"	"	195	±.012	-.05		"
0.5	.04	.04	.03	.03	"	"	196	±.035	-.05		"
3.5	.03	.02	.01	.00	"	"	197	±.015	+.04		"
0.5	.02	.01	.07	.07	"	"	198	±.042	+.03		R.
1.5	.01	.00	.01	.01	"	"	199	±.008	-.24		"
8.5	.01	.00	.01	.01	4386	97	118	±.008	-.24		T.
9.0	.01	.01	.01	.02	"	"	119	±.012	-.23		"
2.0	.01	.00	.04	.04	"	"	120	±.022	-.16		"

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 (Con. from p. 96.) δ Cet. Photometric. Nr. 65.

(Magn. of Comp. star = 9.20)

Date	Tabular Quantity		Diff. Magn.	G.M. Time	Residuals		Jul. Day	Book	Page	Cur
98. 10. 28	-6.59 -6.91	-6.35 -6.38	-6.56	15 36.9	+.16 .16	.01 .02	45911	101	122	+04
	-6.16 -6.33	-6.26 -6.33	-6.27	15 49.3	.08 .09	.04 .03	"	"	123	±.0
98. 11. 1	-6.35 -6.42	-6.23 -6.46	-6.36	15 9.3	.03 .04	.11 .12	45955	"	144	±.0
	-6.46 -6.21	-6.23 -6.30	-6.30	15 15.7	.12 .13	.03 .04	"	"	145	±.0
98, 11, 2	-5.99 -6.13	-6.20 -6.05	-6.08	15 8.2	.07 .07	.08 .07	45966	"	154	±.
	-6.07 -6.13	-6.23 -6.25	-6.17	15 17.2	.03 .03	.01 .01	"	"	104	±.
98 .11 . 8	-6.10 -6.13	-6.08 -6.33	-6.16	15 8.2	.02 .01	.12 .13	46.02	"	203	±.0
	-6.26 -6.18	-6.20 -6.20	-6.21	15 21.2	.04 .04	.00 .00	"	"	204	±.
98 , 11 , 12	-5.98 -5.99	-6.08 -6.11	-6.04	15 20.3	.00 .01	.02 .01	4606	"	221	±.
	-5.95 -6.01	-5.90 -6.08	-5.98	15 34.7	.03 .03	.09 .09	"	"	222	±.
98. 11 . 15	-6.07 -5.93	-5.83 -5.79	-5.90	15 5.0	.07 .07	.02 .02	4609	102	647	±.0
	-6.01 -5.90	-5.80 -5.98	-5.94	15 12.8	.06 .06	.07 .06	"	"	8	±.
98 11 16	-5.78 -5.87	-5.80 -5.82	-5.83	15 21.5	.04 .06	.01 .02	4610	102	14	±.
98 11 21	-5.86 -5.82	-5.80 -5.70	-5.81	15 41.3	.02 .02	.02 .03	4615	102	26	±.0
	-5.72 -5.70	-5.79 -5.76	-5.74	15 48.5	.01 .01	.01 .02	"	"	27	±.0
98 11 28	-5.46 -5.75	-5.71 -5.75	-5.60	15 41.8	.00 .01	.02 .02	4622	"	59	±.0
	-5.62 -5.75	-5.40 -5.38	-5.54	15 48.1	.06 .07	.01 .01	"	"	60	±.0
98 12 . 1	-5.47 -5.62	-5.25 -5.24	-5.40	14 07.4	.07 .08	.02 .02	4625	"	80	±.
	-5.23 -5.23	-5.43 -5.44	-5.34	15 9.9	.00 .00	.01 .00	"	"	81	±.
98, 12, 2	-5.31 -5.24	-5.32 -5.31	-5.30	15 37.2	.03 .04	.00 .01	4626	"	90	±.0
	-5.27 -5.27	-5.35 -5.27	-5.28	15 46.1	.01 .02	.04 .04	"	"	91	±.0
98. 12 . 10	-5.14 -5.00	-5.22 -5.26	-5.16	14 56.0	.07 .07	.02 .02	4634	"	146	±.0
98, 12, 15	-4.73 -4.67	-4.71 -4.87	-4.74	13 4.0	.03 .03	.05 .08	4639	"	189	±.0
	-4.79 -4.79	-4.83 -4.77	-4.80	13 14.2	.00 .00	.03 .03	4639	"	190	±.
98, 12, 13	-4.97 -5.03	-4.89 -4.95	-4.92	15 2.3	.03 .03	.06 .07	4637	"	166	±.
	-4.86 -4.78	-4.84 -4.78	-4.82	15 30.6	.04 .04	.03 .03	"	"	167	±.0
98. 12. 17.	-4.55 -4.67	-4.58 -4.64	-4.58	14 12.8	.06 .06	.08 .08	4641	"	200.	±.
" " "	-4.71 -4.65	-4.64 -4.62	-4.66	14 26.3	.03 .03	.01 .01	"	"	201.	±.0

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ge	Cur Dev.	A-B	Magn. o Ceti	Mean	
92	±.042	+.89			
3	±.060	+.06			
44	±.075	+.04			
5	±.080	−.08			
54	±.072	−.06			
4	±.020	+.14			
03	±.070	+.08			
04	±.040	+.02			
21	±.012	−.12			
92	±.06	+.01			
97	±.049	−.19			
8	±.06	+.04			
14	±.03	+.02			
6	±.022	+.06			
7	±.012	−.07			
9	±.022	−.27			
0	±.038	−.29			
50	±.048	+.28			
1	+.005	+.21			
90	±.022	+.04			Phot R.
1	±.028	+.05			" R
46	±.040	+.17			" R
49	±.058	+.09			" R.
90	±.010	−.01			" R
46	±.048	+.17			" R
7	±.030	+.01			" R
00.	±.070	+.05			" R
01.	±.020	−.05			" R

Continued on P. 98.

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1897phae.proj..4460

Light of Comets. Phot. Q.

Date.	Gr. M. Time.	Focus Readings.						Outside Focus Readings.						Co...
98. 6. 14	12h +0.3m	12.0	13.2	13.6	13.7	13.3	12.9	21.0	21.8	21.0	21.2	21.4	20.9	—

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Corr. for Diff. Abb. (Comet)

−0.104 mag.

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1897phae.proj..4460

Continued from P. 94. o Ceti. Photometric W. 062.

(Magnitude of Comp. Star = 9.20)

Date	Tabular Quantity	Diff. Magn.	G.M.T.	Residuals	Jul. Day	Book & Page	Av.
~~98. 12. 13.~~		-4.92	15 24.3	.03 .03 .06 .08	4637		
98. 12. 23.	b a -4.27 -4.30 -4.33 -4.26	-4.29	15 38.7	.01 .02 .03 .04	4647	102 - 206	±
" " "	a b -4.34 -4.23 -4.31 -4.31	-4.30	15 49.7	.04 .05 .00 .00	4647	" - 207	±
98. 12. 28.	b a -3.97 -4.04 -3.98 -3.95	-3.98	12 45.6	.03 .04 .02 .01	4652	103 - 1	±
	a b -3.97 -4.03 -4.06 -4.13	-4.05	12 54.8	.03 .03 .04 .03	4652	" -2	±
98. 12. 29.	a b -4.17 -4.08 -4.11 -4.11	-4.12	12 59.9	.05 .04 .00 .00	4653	" 13	±
~~99. 1. 3.~~	b a -4.04 -4.06 -4.19 -4.10	-4.10	13 7.2	.01 .01 .05 .04	4653	" 14	±
99. 1. 3.	b a -3.91 -3.61 -3.82 -3.72	-3.76	14 19.4	.15 .15 .05 .05	4658	" 27	±
	a b -3.68 -3.68 -3.77 -3.76	-3.72	14 31.0	.00 .00 .01 .00	4658	" 28	±
98. 12. 29.	a b -3.96 -3.95 -4.09 -3.98	-4.00	15 3.7	.00 .01 .03 .06	4653	" 21	±
	b a -4.04 -4.02 -4.08 -4.03	-4.04	15 14.1	.01 .01 .02 .03	4653	" 22	±
99. 1. 7.	a b -3.74 -3.77 -3.62 -3.69	-3.66	15 47.7	.02 .01 .06 .07	4662	" 38	±
	b a -3.60 -3.61 -3.70 -3.81	-3.69	16 0.8	.00 .01 .08 .09	4662	" 39	±
" " 10	b a -3.46 -3.58 -3.51 -3.53	-3.52	15 32.0	.04 .04 .01 .01	4665	" 49	±
" " "	a b -3.53 -3.51 -3.53 -3.43	-3.50	15 40.0	.01 .01 .05 .05	4665	" 50	±
" " 11	a b -3.42 -3.50 -3.51 -3.33	-3.44	13 17.4	.04 .04 .07 .09	4666	" 59	±
" " "	b a -3.33 -3.48 -3.44 -3.41	-3.42	13 26.8	.08 .08 .02 .01	4666	" 60	±
" " 17	a b -3.11 -3.06 -3.17 -3.14	-3.12	13 33.1	.03 .02 .01 .02	4672	" 79	±
" " "	b a -3.08 -3.10 -3.07 -3.09	-3.08	13 42.1	.01 .01 .01 .01	4672	" 80	±
" " 18	b a -3.25 -3.33 -3.07 -3.02	-3.16	14 27.2	.04 .04 .03 .02	4673	" 97	±
" " "	a b -3.14 -3.20 -3.18 -3.28	-3.20	14 30.6	.03 .03 .05 .05	4673	" 98	±
" " 19	a b -3.12 -3.08 -3.02 -3.11	-3.08	13 39.9	.02 .02 .04 .05	4674	" 106	±
" " "	b a -3.19 -3.18 -3.02 -3.14	-3.13	13 53.8	.01 .00 .06 .06	4674	" 107	±
" " 21	b a -3.15 -3.11 -3.11 -3.00	-3.10	13 19.5	.02 .02 .05 .06	4676	" 116	±
" " "	a b -3.04 -3.00 -3.04 -3.02	-3.02	13 36.3	.02 .02 .01 .01	4676	" 117	±
" " 25	a b -2.90 -2.84 -2.82 -2.86	-2.86	12 40.2	.03 .03 .02 .02	4680	" 123	±
" " "	b a -2.84 -2.86 -2.87 -2.88	-2.86	12 49.3	.01 .01 .01 .00	4680	" 124	±
" 2. 2.	a b -2.47 -2.52 -2.55 -2.53	-2.52	12 38.7	.03 .02 .01 .01	4688	" 197	±
" " "	b a -2.59 -2.58 -2.50 -2.53	-2.55	12 46.2	.01 .00 .02 .01	4688	" 198	±

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1897phae..proj..4460

Page	Av. Dev.	A - B.	Magn. o Ceti	Mean.	
06	±.023	+.02			Plot. R.
07	±.022	+.01			" R.
1	±.025	+.04			" S.a.
2	±.032	+.10			" S.a
3	±.022	−.01			" S.a.
4	±.027	−.09			" S.a.
7	±.01	−.01			
8	±.002	+.08			
1	±.03	+.08			" R
2	±.018	−.03			" R.
8	±0.04	−.20			" R.
	±.045	−.18			" R.
7	±.025	+.00			" S.a.
0	±0.03	−.04			" S.a.
7	±.065	−.04			" S.a.
0	±.048	−.01			" S.a.
9	±0.02	+.08			" S.a.
1	±0.01	+.01			" S.a.
7	±.032	+.25			" W.
2	±.04	+.06			" W.
2	±.032	−.04			" W.
7	±.032	+.10			" W.
6	±.037	+.07			" "
7	±.017	+.01			" "
3	±.022	−.03			" "
4	±.007	−.03			" "
7	±.017	+.04			" "
2	±.01	+.06			" "

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1897phae.proj.4460

100

S S Cygni Phot. V.

Comparison Star = m = 8.93

Nov. 30, 1897

Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr.
b	+0.57	-.01	b	+0.49	+.01	b	+0.29	-.01	
	+0.59	+.01		+0.48	.00		+0.30	.00	
12 8 52	+0.58	±.010	12 47 10	+0.48	±.005	14 9. 34	+0.30	±.005	14
a	+0.76	+.02	a	+0.75	+.01	a	+0.64	+.01	
	+0.73	-.01		+0.72	-.02		+0.62	-.01	
	+0.74	±.015		+0.74	±.015		+0.63	±.010	
+.16	+0.66	±.012	+.26	+0.61	±.010	+.33	+0.46	±.008	
a	+0.76	.00	a	+0.79	+.03	a	+0.58	+.04	
	+0.75	-.01		+0.72	-.04		+0.51	-.03	
12 15 33	+0.76	±.005	13 0 51	+0.76	±.035	14 16 46	+0.54	±.035	14
b	+0.51	-.03	b	+0.44	-.05	b	+0.33	+.01	
	+0.58	+.04		+0.54	+.05		+0.30	-.02	
	+0.54	±.035		+0.49	±.050		+0.32	±.015	
+.22	+0.65	±.020	+.27	+0.62	±.042	+.22	+0.43	±.025	
b	+0.58	+.04	b	+0.47	-.05	b	+0.24	.00	
	+0.50	-.04		+0.58	+.06		+0.23	-.01	
12 26 34	+0.54	±.040	13 12 19	+0.52	±.055	14 24 26	+0.24	±.005	15
a	+0.82	-.02	a	+0.80	+.08	a	+0.56	.00	
	+0.86	+.02		+0.65	-.07		+0.56	.00	
	+0.84	±.020		+0.72	±.075		+0.56	.00	
+.30	+0.69	±.030	+.20	+0.62	±.065	+.32	+0.40	±.002	
a	+0.69	-.01	a	+0.68	.00	a	+0.54	-.02	
	+0.70	.00		+0.67	-.01		+0.58	+.02	
12 38 22	+0.70	±.005	13 25 6	+0.68	±.005	14 35 15	+0.56	±.020	15
b	+0.58	+.06	b	+0.39	-.03	b	+0.22	-.04	
	+0.47	-.05		+0.46	+.04		+0.29	+.03	
	+0.52	±.055		+0.42	±.035		+0.26	±.035	
+.18	+0.61	±.030	+.26	+0.55	±.020	+.30	+0.41	±.028	

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1897phae..proj..4460

S S Cygni. (Cont.) Phot. T.

Comparison Star = m = 8.93.

Nov. 3, 1897. Dec. 6, 1897.

Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.
	b	+0.24	+.02		b	+0.14	−.02		b	+0.32	+.02
		+0.20	−.02			+0.19	+.03			+0.28	−.02
14 42 59		+0.22	±.020	15 43 46		+0.16	±.025	12 27 56		+0.30	±.020
	a	+0.52	+.02		a	+0.38	+.02	0.5193	a	+0.44	+.02
		+0.48	−.02			+0.34	−.02			+0.40	−.02
		+0.50	±.020			+0.36	±.020			+0.42	±.020
	+.28	+0.36	±.020		+.20	+0.26	±.022		+.12	+0.36	±.020
	a	+0.38	−.05		a	+0.36	−.02		a	+0.42	−.03
		+0.48	+.05			+0.39	+.01			+0.48	+.03
14 59 51		+0.43	±.050	15 53 40		+0.38	±.015	12 36 6		+0.45	±.030
	b	+0.24	+.04		b	+0.02	−.09	0.5251	b	+0.32	+.02
		+0.17	−.03			+0.20	+.09			+0.27	−.03
		+0.20	±.035			+0.11	±.090			+0.30	±.025
	+.23	+0.32	±.042		+.27	+0.24	±.052		+.15	+0.38	±.028
	b	+0.21	+.02		b	+0.02	−.03		b	+0.32	+.05
		+0.17	−.02			+0.08	+.03			+0.22	−.05
15 7 10		+0.19	±.020	16 5 12		+0.05	±.030	12 47 47		+0.27	±.050
	a	+0.47	+.01		a	+0.41	+.07	0.5332	a	+0.51	+.04
		+0.44	−.02			+0.26	−.08			+0.43	−.04
		+0.46	±.015			+0.34	±.075			+0.47	±.040
	+.27	+0.32	±.018		+.29	+0.20	±.052		+.20	+0.37	±.045
	a	+0.37	−.03						a	+0.52	+.04
		+0.43	+.03							+0.46	−.03
15 36 50		+0.40	±.030					12 58 8		+0.48	±.035
	b	+0.20	+.05					0.5404	b	+0.30	+.04
		+0.10	−.05							+0.22	−.04
		+0.15	±.050							+0.26	±.045
	+.25	+0.26	±.040						+.22	+0.37	±.038

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1897phae.proj...4460

W Delphini — Phot. E.

Comp. Star = a = 9.27.

Dec 2, 1897.

Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr.
	a	+2.82	+.01		a	+2.78	−.08		a	+2.65	−.14	
		+2.80	−.01			+2.94	+.08			+2.93	+.14	
10 30 28		+2.81	±.015	11 4 37		+2.86	±.080	11 5 3 7		+2.79	±.140	11
0.4378	b	+2.59	−.05	0.4615	b	+2.61	−.04	0.4952	b	+2.57	+.03	
−0.5098		+2.69	+.05	−0.5098		+2.69	+.04	−0.5098		+2.50	−.04	
−.0720		+2.64	±.050	−.0483		+2.65	±.040	−.0146		+2.54	±.035	
−1 44		11.99		−1 10		12.03		−0 21		11.94		
		+2.72	±.032			+2.76	±.060			+2.67	±.088	
+.17				+.21				+.25				
	b	+2.71	+.03		b	+2.59	−.06		b	+2.64	−.05	
		+2.66	−.02			+2.71	+.06			+2.74	+.05	
10 37 23		+2.68	±.025	11 22 32		+2.65	±.060	12 10 10		+2.69	±.050	11
0.4426	a	+2.92	+.09	0.4740	a	+2.94	.00	0.5071	a	+2.67	+.01	
−0.5098		+2.74	−.09	−0.5098		+2.93	−.01	−0.5098		+2.66	.00	
−.0672		+2.83	±.090	−.0358		+2.94	±.005	−.0027		+2.66	±.005	
−1 37		12.03		−0 57		12.03		−0 4		11.93		
		+2.76	±.058			+2.80	±.032			+2.68	±.028	
+.15				+.29				−.03				
	a	+2.80	.00		a	+2.89	.00					
		+2.79	−.01			+2.89	.00					
10 48 7		+2.80	±.005	11 31 30		+2.89	.000					11
0.4506	b	+2.75	+.03	0.4802	b	+2.64	−.05					
−0.5098		+2.69	−.03	−0.5098		+2.74	+.05					
−.0597		+2.72	±.030	−.0296		+2.69	±.050					
−1 56		12.03		−0 43		12.06						
		+2.76	±.018			+2.79	±.025					
+.08				+.20								
	b	+2.71	+.01		b	+2.63	+.01					
		+2.68	−.02			+2.60	−.02					
10 56 10		+2.70	±.015	11 39 57		+2.62	±.015					11
0.4557	a	+2.79	+.07	0.4861	a	+3.01	.00					
−0.5098		+2.66	−.06	−0.5098		+3.01	.00					
−0.0541		+2.72	±.065	−.0237		+3.01	.00					
−1 18		11.98		−0 34		12.09						
		+2.71	±.040			+2.82	±.005					
+.02				+.39								

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π Delphini. Phot. I.

Comp. Star = a = 9.27

DEC. 21, 1897

Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.
4		a	+0.44	.00		a	+0.68	-.02		a	+0.97	.00
4			+0.45	+.01			+0.72	+.02			+0.97	.00
40	11 33 31		+0.44	±.005	12 9 53		+0.70	±.020	12 49 11		+0.97	.000
3	0.4816 / -0.7367 / -0.2551 / -6 7	b	+0.32	+.02	0.5068 / -0.7367 / -0.2299 / -5 31	b	+0.56	+.01	0.5341 / -0.7367 / -0.2026 / -4 52	b	+0.84	-.01
4			+0.29	-.01			+0.54	-.01			+0.86	+.01
35			+0.30	±.015			+0.55	±.010			+0.85	±.010
88		+.14	9.64 / +0.37	±.010		+.15	9.89 / +0.62	±.015		+.12	10.18 / +0.91	±.005
5		b	+0.39	-.01		b	+0.54	-.04		b	+0.82	.00
5			+0.42	+.02			+0.63	+.05			+0.81	-.01
50	11 41 8		+0.40	±.015	12 18 16		+0.58	±.045	12 58 0		+0.82	±.005
1	0.4869 / -0.7367 / -0.2498 / -6 0	a	+0.45	-.05	0.5127 / -0.7367 / -0.2240 / -5 23	a	+0.78	.00	0.5403 / -0.7367 / -0.1964 / -4 43	a	+1.03	-.01
0			+0.54	+.04			+0.77	-.01			+1.05	+.01
05			+0.50	±.045			+0.78	±.005			+1.04	±.010
28		+.10	9.72 / +0.45	±.030		+.20	9.95 / +0.68	±.025		+.22	10.20 / +0.93	±.008
		a	+0.58	.00		a	+0.82	.00		a	+1.26	+.08
			+0.57	-.01			+0.83	+.01			+1.09	-.09
	11 50 20		+0.58	±.005	12 30 31		+0.82	±.005	13 16 2		+1.18	±.085
	0.4933 / -0.7367 / -0.2434 / -5 50	b	+0.58	+.04	0.5212 / -0.7367 / -0.2155 / -5 10		+0.70	.00	0.5528 / -0.7367 / -0.1839 / -4 25	b	+1.09	-.02
			+0.50	-.04		b	+0.71	+.01			+1.13	+.02
			+0.54	±.040			+0.70	±.005			+1.11	±.020
		+.04	9.83 / +0.56	±.022		+.12	10.03 / +0.76	±.005		+.07	10.41 / +1.14	±.052
		b	+0.49	-.01		b	+0.76	+.02		b	+1.11	+.01
			+0.50	.00			+0.73	-.01			+1.08	-.02
	11 59 30		+0.50	±.005	12 39 35		+0.74	±.015	13 28 10		+1.10	±.015
	0.4997 / -0.7367 / -0.2370 / -5 41	a	+0.70	+.03	0.5275 / -0.7367 / -0.2092 / -5 1	a	+0.97	-.03	0.5612 / -0.7367 / -0.1755 / -4 13	a	+1.29	-.01
			+0.64	-.03			+1.04	+.04			+1.31	+.01
			+0.67	±.030			+1.00	±.035			+1.30	±.010
		+.17	9.85 / +0.58	±.018		+.26	10.14 / +0.87	±.025		+.20	10.47 / +1.20	±.012

(over)

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π Delphini Phot. Σ

DEC. 21, 1897.

Gr. M. Time		Diff. Magn.	Av. Dev.
	a	+1.45	-.01
		+1.47	+.01
13 46 54		+1.46	±.010
0.5742			
-0.7367	b	+1.33	-.07
-0.4625			
-3 54		+1.46	+.06
		+1.40	±.065
		10.70	
	+.06	+1.43	±.038

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Visual Observations of U Orionis.

Date.	Gr. M.T.	Comparison.	Magn.	Resids	Inst.	Obs.	Date.	Gr. M.T.	Comparison.	Magn.	Resids	Inst.	Obs.
97. 10. 23.	16 50	u 1 var, var 2 w			8	Se.	97. 12. 27	19 45	p 4 var, var 0 q Est. 9.5			6	Ha.
10. 29.	14 36	n 3 var, var 1 f			6	R.							
11. 3.	16 00	t 2 var, var 1 u			8	Se.							
11. 7.	16 10	t 2 var, var 1 u			8	Se.							
11. 10.	14 50	t 2 var, var 1 u			8	Se.							
11. 13	15 40	t 1 var, var 2 u			8	Se.							
11. 23	14 15	t 1 var, var 2 u			8	Se.							
11. 24.	14 40	t 1 var, var 2 u			8	Se.							
11. 27	14 55	t 1 var, var 2 u			8	Se.							
12. 6	13 40	q 1 var, var 1 s			8	Se.							
12. 11.	14 30	q 0 var,			8	Se.							
12. 12	14 50	q 1 var, var 2 s.			8	Se.							
12. 15	14 50	q 1 var., var 2 s			8	Se.							
" "	14 55	q 0 var			8	Se.							
12. 18	14 Sidereal 0	θ 2 var			6	R.							
" "	16 20	r 2.5 var, var 3.5 s Est. 10.7			15	H.							
" "	18 10	r 1 var, var 3 s Est. 10.5			6	Ha.							
" "	14 35	q 1 var, var 2 s			8	Se.							
12. 19.	20 15	r 2 var, var 3 s Est. 10.5			6	Ha.							
12. 23	15 37	q 2 var, var 2.5 r			15	H.							
" " "	"	q 3 var, var 2 r			4	H.							
" " "	"	p 3 var, var 2 q			15	F.							
12. 24	16 15	q 3 var, var 2 r			15	H.							
" " "	"	p 3 var, var 2 q Est. 10.0			15	F.							
12. 25	17 50	q 1 var, var 3 r			6	Ha.							
12. 27	16 05	p 4 var, var 1 q			15	H.							
" " "	.	q 3 var			4	H.							
" "	16 07	p 0 var			15	F.							
" " "	"	q 0 var			4	F.							

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1897phae.proj..4460

Continued from Book 1, Page 148.

δ Ursae Minoris Phot. N.

Comp Star = DM +79° 467 (9.4)

Date.	Tabular Quantity		Diff. Magn.	Gr. M. Time.	Residuals		J.D. 241	Bk. & Page		A.
1898. 1. 8.	-0.95 a -0.98 b	-1.04 b -1.03 a	-1.00	14 21.0	.01 .02	.00 .01	4298	95	85	±
" "	-0.98 b -1.03 a	-1.07 a -0.97 b	-1.01	14 30.0	.02 .03	.05 .05	"	"	86	±
3. 9.	+0.23 a +0.24 b	+0.15 b +0.25 a	+0.20	15 42.0	.01 .00	.05 .05	4358	96	161	±
" "	+0.24 b +0.20 a	+0.20 a +0.12 b	+0.19	15 57.5	.02 .02	.04 .04	"	"	162	±

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1897phae.proj..4460

	Av. Dev.	A-B.			
5	±.010	+.08			
6	±.038	-.02			
61	±.028	+.04			
67	±.030	-.06			

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1897phae.proj..4460

U Pegasi. Phot. T.

Comp. Star = D M. +15° 4916 (8.8)

Dec. 25, 1897

Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr.
	a	+0.79	+.01		a	+0.67	+.01		a	+0.53	+.06	
		+0.78	.00			+0.66	.00			+0.41	-.06	
10	26	54	+0.78	±.005	11	4	42	+0.66	±.005	11	48	37	+0.47	±.060	12
11	5	3	+0.66	-.02	11	5	3	+0.43	+.03	11	5	3	+0.32	.00	11
0	38	9 b	+0.71	+.03	0	0	24 b	+0.38	-.02	0	49	34 b	+0.31	+.01	
-7	42		+0.68	±.025	-7	42		+0.40	±.025	-7	42		+0.32	±.005	
+2	45		+0.73	±.015	+3	23	+.26	+0.53	±.015	+14	6	+.15	+0.40	±.032	
	b	+0.56	-.04		b	+0.33	+.01		b	+0.30	.00	
		+0.65	+.05			+0.31	-.01			+0.29	-.01	
10	34	12	+0.60	±.045	11	12	24	+0.32	±.010	11	55	27	+0.30	±.005	12
11	5	3	+0.69	-.04	11	5	3	+0.60	+.01	11	5	3	+0.44	.00	11
0	30	51 a	+0.77	+.04	0	7	21 a	+0.58	-.01	0	50	24 a	+0.43	-.01	
-7	42		+0.73	±.040	-7	42		+0.59	±.010	-7	42		+0.44	±.005	
+2	52	+.13	+0.66	±.042	+3	30	+.27	+0.46	±.010	+14	13	+.14	+0.37	±.005	
	a	+0.69	-.03		a	+0.49	+.03		a	+0.42	-.04	
		+0.74	+.02			+0.44	-.02			+0.57	+.05	
10	42	15	+0.72	±.025	11	31	18	+0.46	±.025	12	25	51	+0.46	±.045	13
11	5	3	+0.53	+.03	11	5	3	+0.37	-.01	11	5	3	+0.33	-.02	11
0	22	48 b	+0.50	-.02	0	26	16 b	+0.38	.00	11	20	46 b	+0.37	+.02	
-7	42		+0.52	±.025	-7	42		+0.38	±.005	-12	12		+0.35	±.020	
+3	0	+.20	+0.62	±.025	+3	49	+.08	+0.42	±.015	+0	13	+.11	+0.40	±.032	
	b	+0.50	+.02		b	+0.40	.00		b	+0.29	-.01	
		+0.45	-.03			+0.41	+.01			+0.30	.00	
10	55	17	+0.48	±.025	11	40	2	+0.40	±.005	12	33	21	+0.30	±.005	13
11	5	3	+0.73	+.06	11	5	3	+0.41	-.05	11	5	3	+0.47	+.01	11
0	9	46 a	+0.61	-.06	4	32	59 a	+0.50	+.04	11	28	16 a	+0.46	.00	
-7	42		+0.67	±.060	-7	42		+0.46	±.045	-12	12		+0.46	±.005	
+3	13	+.19	+0.58	±.042	+3	58	+.06	+0.43	±.025	+0	21	+.16	+0.38	±.005	

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1897phae.proj..4460

U Pegasi (Cont.) Phot. I.

Comp Star = D M. +15° 4916 (5.5)

Dec 28 1896

Gr. M. Time	Diff Magn	Av. Dev.	Gr. M. Time	Diff Magn	Av. Dev.	Gr. M. Time	Diff Magn	Av. Dev.
a	+0.50	+.02	a	+0.73	.00	a	+0.99	+.03
	+0.47	−.01		+0.73	.00		+0.92	−.04
12 41 10	+0.48	±.015	13 35 59	+0.73	.000	14 24 29	+0.96	±.035
11 5 3	+0.37	+.01	11 5 3	+0.55	−.05	11 5 3	+0.80	+.02
+12 36 b	+0.35	−.01	−12 12 b	+0.66	+.06	−12 12 b	+0.76	−.02
+0 29	+0.36	±.010	+1 23	+0.60	±.055	+2 12	+0.78	±.020
+.12	+0.42	±.012	+.13	+0.66	±.028	+.18	+0.87	±.028
b	+0.43	+.03	b	+0.60	.00	b	+0.75	−.05
	+0.36	−.04		+0.60	.00		+0.84	+.04
12 51 7	+0.40	±.035	13 48 41	+0.60	.000	14 34 0	+0.88	±.045
11 5 3	+0.48	−.04	11 5 3	+0.78	−.02	11 5 3	+0.94	+.04
+1 46 a	+0.55	+.03	+2 43 a	+0.82	+.02	0 25 57 a	+0.87	−.03
−12 12	+0.52	±.035	−12 12	+0.80	±.020	−12 12	+0.90	±.035
+0 39	+0.46	±.035	+1 37	+0.70	±.010	+2 22	+0.85	±.040
+.12	+0.59	−.01	+.20	+0.83	−.01	+.10	+0.96	.00
a	+0.62	+.02	a	+0.86	+.02	a	+0.97	+.01
13 17 27	+0.60	±.015	13 58 37	+0.84	±.015	14 43 1	+0.96	±.005
11 5 3	+0.44	−.02	11 5 3	+0.68	−.02	11 5 3	+0.74	.00
+2 12 24 b	+0.48	+.02	+2 53 36 b	+0.71	+.01	+3 39 55 b	+0.75	+.01
−12 12	+0.46	±.020	−12 12	+0.70	±.015	−12 12	+0.74	±.005
+1 5	+0.53	±.018	+1 47	+0.77	±.015	+2 31	+0.85	±.005
+.14	+0.44	+.02	+.14	+0.70	−.04	+.22	+0.69	+.01
b	+0.41	−.01	b	+0.77	+.03	b	+0.68	.00
13 27 14	+0.42	±.015	14 17 29	+0.74	±.035	14 50 2	+0.68	±.005
11 5 3	+0.72	+.02	11 5 3	+1.04	+.03	11 5 3	+0.81	−.01
+2 22 14 a	+0.69	−.01	+3 10 26 a	+0.98	−.03	+3 44 59 a	+0.82	.00
−12 12	+0.70	±.015	−12 12	+1.01	±.030	−12 12	+0.82	±.005
+1 13	+0.56	±.015	+2 5	+0.88	±.032	+2 38	+0.75	±.005
+.28			+.27			+.14		

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1897phae.proj..4460

U Pegasi (Concl.) Phot. T.

D M. +15° 4916 (8.5)

Dec. 28, 1897

Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr.
	a +0.71	-.02		a +0.60	-.01		a +0.57	+.01	
	+0.75	+.02		+0.62	+.01		+0.54	-.02	
15 6 57	+0.73	±.020	15 33 12	+0.61	±.010	16 21 10	+0.56	±.015	14
11 5 3	+0.64	+.04	11 5 3	+0.45	+.03	11 5 3	+0.48	+.01	-13
+4 1 54 b	+0.56	-.04	+4 28 9 b	+0.40	-.02	+5 6 7 b	+0.38	-.01	+0
-12 12	+0.60	±.040	-12 12	+0.42	±.025	-12 12	+0.39	±.010	
+2 55	+0.66	±.030	+3 21	+0.52	±.018	+4 9	+0.48	±.012	
+.13			+.19			+.17			
	b +0.45	-.03		b +0.29	-.04		b +0.42	+.02	
	+0.50	+.02		+0.34	+.04		+0.38	-.02	
15 14 57	+0.48	±.025	15 56 56	+0.33	±.040	16 29 38	+0.40	±.020	14
11 5 3	+0.67	-.01	11 5 3	+0.54	.00	11 6 3	+0.47	-.01	-13
+4 9 54 a	+0.68	.00	+4 51 53 a	+0.54	.00	+5 24 35 a	+0.49	+.01	+1
-12 12	+0.68	±.005	-12 12	+0.54	.000	-12 12	+0.48	±.010	
+3 3	+0.58	±.015	+3 45	+0.44	±.020	+4 17	+0.44	±.015	
+.20			+.21			+.08			
	a +0.66	+.02		a +0.56	.00				
	+0.62	-.02		+0.55	-.01				
15 21 3	+0.64	±.020	16 3 2	+0.56	±.005				14
11 5 3	+0.44	+.03	11 5 3	+0.38	.00				-13
+4 16 9 b	+0.38	-.03	+4 54 59 b	+0.38	.00				+
-12 12	+0.41	±.030	-12 12	+0.38	.000				
+3 9	+0.52	±.025	+3 51	+0.44	±.002				
+.23			+.18						
	b +0.40	-.02		b +0.28	-.09				
	+0.44	+.02		+0.46	+.09				
15 26 46	+0.42	±.020	16 13 16	+0.34	±.090				15
11 5 3	+0.63	.00	11 5 3	+0.53	.00				-13
+4 21 43 a	+0.63	.00	+3 8 +3 a	+0.53	.00				+1
-12 12	+0.63	.000	-12 12	+0.53	.000				
+3 15	+0.52	±.010	+4 1	+0.45	±.045				
+.21			+.16						

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U Pegasi. Phot. T.

Comp. Star = DM. +15° 4916 (8.8)

Dec. 30, 1897.

Gr.	M.	Time.	Diff. Magn.	Av. Dev.	Gr.	M.	Time.	Diff. Magn.	Av. Dev.	Gr.	M.	Time.	Diff. Magn.	Av. Dev.
		b	+0.29	-.08			b	+0.52	-.02			b	+0.89	+.04
			+0.45	+.08				+0.57	+.03				+0.81	-.04
14	34	29	+0.37	±.080	15	14	8	+0.54	±.025	16	2	32	+0.85	±.040
-13	40				-13	40				-13	40			
+0	54	a	+0.73	+.05	+1	34	a	+0.84	-.06	+2	22	a	+1.14	+.04
			+0.63	-.05				+0.96	+.06				+1.06	-.04
			+0.68	±.050				+0.90	±.060				+1.10	±.040
		+.31	+0.52	+0.65			+.36	+0.72	±.042			+.25	+0.98	±.040
		a	+0.64	-.02			a	+1.08	-.01					
			+0.67	+.01				+1.10	+.01					
14	41	56	+0.66	±.015	15	28	25	+1.09	±.010					
-13	40				-13	40								
+1	2	b	+0.50	+.06	+1	48	b	+0.75	-.05					
			+0.38	-.06				+0.85	+.05					
			+0.44	±.060				+0.80	+.050					
		+.22	+0.55	±.038			+.29	+0.94	±.030					
		b	+0.43	-.01			b	+0.89	+.01					
			+0.46	+.02				+0.88	.00					
14	49	51	+0.44	±.015	15	42	56	+0.88	±.005					
-13	40				-13	40								
+1	10	a	+0.69	-.03	+2	2	a	+1.12	+.04					
			+0.75	+.03				+1.05	-.03					
			+0.72	±.030				+1.08	±.035					
		+.28	+0.58	±.022			+.20	+0.98	±.020					
		a	+0.83	+.01			a	+1.23	+.06					
			+0.82	.00				+1.11	-.06					
15	4	51	+0.82	±.005	15	53	57	+1.17	±.060					
-13	40				-13	40								
+1	25	b	+0.49	-.05	+2	13	b	+0.94	+.02					
			+0.58	+.04				+0.91	-.01					
			+0.54	±.045				+0.92	±.015					
		+.28	+0.68	±.025			+.25	+1.04	±.038					

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U Pegasi. Phot. T.

Comp. Star = D M. +15° 4916 (8.8)

Jan. 1, 1898.

Gr.	M. Time.		Diff Magn.	Av Dev.	Gr.	M. Time.		Diff Magn.	Av Dev.	Gr.	M. Time.		Diff Magn.	Av Dev.	Gr.
			b	+0.87	-.03			b	+0.58	-.02			b	+0.34	.00	
				+0.93	+.03				+0.63	+.03				+0.35	+.01	
12	43	38		+0.90	±.030	13	22	54	+0.60	±.035	14	2	30	+0.34	±.005	14
			a	+1.10	-.04				a +0.82	+.03				a +0.66	+.04	
				+1.17	+.03				+0.76	-.03				+0.58	-.04	
				+1.14	±.035				+0.79	±.030				+0.62	±.040	
		+.24		+1.02	±.032			+.19	+0.70	±.032			+.28	+0.48	±.027	
			a	+1.16	+.01				a +0.77	+.03				a +0.61	.00	
				+1.14	-.01				+0.70	-.04				+0.61	.00	
12	52	35		+1.15	±.010	13	41	51	+0.74	±.035	14	10	52	+0.61	.000	15
			b	+0.75	-.02				b +0.38	.00				b +0.37	-.01	
				+0.79	+.02				+0.38	.00				+0.38	.00	
				+0.77	±.020				+0.38	.000				+0.38	±.005	
		+.38		+0.96	±.025			+.36	+0.56	±.018			+.23	+0.50	±.002	
			b	+0.82	+.01				b +0.38	-.02				b +0.36	-.02	
				+0.80	-.01				+0.43	+.03				+0.41	+.03	
13	2	32		+0.81	±.010	13	47	53	+0.40	±.025	14	21	13	+0.38	±.025	15
			a	+1.00	.00				a +0.66	+.03				a +0.53	+.01	
				+1.01	+.01				+0.60	-.03				+0.51	-.01	
				+1.00	±.005				+0.63	±.030				+0.52	±.010	
		+.19		+0.90	±.008			+.23	+0.52	±.028			+.14	+0.45	±.018	
			a	+1.01	+.07				a +0.66	-.02				a +0.50	+.01	
				+0.87	-.07				+0.62	+.02				+0.48	-.01	
13	13	9		+0.94	±.070	13	55	31	+0.64	±.020	14	27	43	+0.49	±.010	15
			b	+0.66	-.02				b +0.40	-.03				b +0.33	+.01	
				+0.69	+.01				+0.46	+.03				+0.30	-.02	
				+0.68	±.015				+0.43	±.030				+0.32	±.015	
		+.26		+0.81	±.042			+.21	+0.54	±.025			+.17	+0.40	±.012	

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U Pegasi Phot. T.

Comp. Star = D M. +15° 4916 (8.8)

Jan. 1, 1898.

Yr.	Gr. M. Time			Diff. Magn.	Av. Dev.	Gr. M. Time			Diff. Magn.	Av. Dev.	Gr. M. Time			Diff. Magn.	Av. Dev.
10				f +0.17	−.09				f +0.28	+.04					
01				+0.30	+.09				+0.19	−.05					
005	14	54	33	+0.21	±.090	15	32	27	+0.24	±.045					
14				a +0.55	+.03				a +0.58	+.02					
14				+0.50	−.02				+0.55	−.01					
40				+0.52	±.025				+0.56	±.015					
22			+.31	+0.36	±.058			+.32	+0.40	±.030					
00				a +0.51	+.01				a +0.56	+.02					
0				+0.48	−.02				+0.52	−.02					
20	15	1	13	+0.50	±.015	15	40	47	+0.54	±.020					
1				f +0.30	+.02				f +0.29	+.03					
0				+0.25	−.03				+0.24	−.02					
25				+0.28	±.025				+0.26	±.025					
02			+.22	+0.39	±.020			+.28	+0.40	±.022					
2				f +0.32	−.01				f +0.24	−.02					
3				+0.34	+.01				+0.29	+.03					
25	15	7	9	+0.33	±.010	15	48	15	+0.26	±.025					
1				a +0.52	+.01				a +0.42	−.03					
1				+0.50	−.01				+0.48	+.03					
10				+0.51	±.010				+0.45	±.030					
18			+.18	+0.42	±.010			+.29	+0.36	±.028					
1				a +0.56	+.04										
1				+0.47	−.05										
10	15	23	57	+0.52	±.045										
1				f +0.30	+.02										
2				+0.27	−.01										
15				+0.28	±.015										
12			+.24	+0.40	±.030										

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Alteration in red below. all checked

Gr.	M. Time		Diff Magn.	Gr.	M. Time		Diff Magn.	Gr.	M. T.		Diff Magn.	Gr.	M. T.		Diff Magn.	Gr.
1873	Oct. 1	23 59 42														
12	(3744) 31	+0 57	+0.58	17	58	+1 54	+0.82	11	40	+3 58	+0.43	14	50	+1 10	+0.58	13
12	44	+1 10	+0.66	18	5	+2 1	+0.80	11	49	+4 7	+0.40	15	5	+1 25	+0.68	13
12	53	+1 19	+0.68	October 29, 1897.				11	55	+4 13	+0.37	15	14	+1 34	+0.72	13
13	3	+1 29	+0.78	13	(3805) 40	+0 45	+0.44	12	(4126) 26	+0 14	+0.40	15	28	+1 48	+0.94	14
13	14	+1 40	+0.84	13	52	+0 57	+0.44	12	33	+0 21	+0.38	15	43	+2 3	+0.98	14
13	25	+1 51	+0.93	14	0	+1 5	+0.53	12	41	+0 29	+0.42	15	54	+2 14	+1.04	14
13	41	+2 7	+0.98	14	8	+1 13	+0.56	12	51	+0 39	+0.46	16	3	+2 23	+0.98	14
13	53	+2 19	+1.02	14	17	+1 22	+0.57	13	17	+1 5	+0.53	January 1, 1898.				14
14	5	+2 31	+0.94	14	25	+1 30	+0.70	13	27	+1 15	+0.56	(4144) 12	44	+2 6	+1.02	14
14	14	+2 40	+0.71	14	35	+1 40	+0.73	13	36	+1 24	+0.66	12	53	+2 15	+0.96	15
14	24	+2 50	+0.72	14	43	+1 48	+0.55	13	49	+1 37	+0.70	13	3	+2 25	+0.90	15
14	34	+3 0	+0.59	14	52	+1 57	+0.82	13	59	+1 47	+0.77	13	13	+2 35	+0.81	15
14	50	+3 16	+0.56	15	0	+2 5	+0.79	14	17	+2 5	+0.88	13	23	+2 45	+0.70	15
15	2	+3 28	+0.46	15	9	+2 14	+0.80	14	24	+2 12	+0.87	13	42	+3 4	+0.56	15
15	13	+3 39	+0.48	15	20	+2 25	+0.78	14	34	+2 22	+0.85	13	48	+3 10	+0.52	15
15	29	+3 55	+0.38	15	32	+2 37	+0.66	14	43	+2 31	+0.85	13	56	+3 18	+0.54	16
15	41	+4 7	+0.34	15	41	+2 46	+0.66	14	50	+2 38	+0.75	14	2	+3 24	+0.48	
15	51	+4 17	+0.33	15	49	+2 54	+0.58	15	7	+2 55	+0.66	14	11	+3 33	+0.50	
16	2	+4 28	+0.46	15	57	+3 2	+0.58	15	15	+3 3	+0.58	14	21	+3 43	+0.43	
(3744) 16	16	+0 12	+0.40	16	9	+3 14	+0.50	15	21	+3 9	+0.52	14	28	+3 50	+0.40	
16	26	+0 22	+0.38	16	17	+3 22	+0.44	15	27	+3 15	+0.52	14	35	+4 17	+0.36	
16	34	+0 30	+0.46	16	25	+3 30	+0.43	15	33	+3 21	+0.52	15	1	+4 23	+0.30	
16	48	+0 44	+0.48	December 28, 1897.				15	57	+3 45	+0.44	15	7	+4 29	+0.42	
16	57	+0 53	+0.48	(4114) 10	27	+2 45	+0.73	16	3	+3 51	+0.47	(4144) 15	24	+0 16	+0.40	
17	9	+1 5	+0.60	10	34	+2 52	+0.66	16	13	+4 1	+0.45	15	32	+0 24	+0.40	
17	22	+1 18	+0.61	10	42	+3 0	+0.62	16	21	+4 9	+0.48	15	41	+0 33	+0.40	
17	30	+1 26	+0.64	10	55	+3 13	+0.58	16	30	+4 18	+0.44	15	48	+0 40	+0.36	
17	37	+1 33	+0.70	11	5	+3 23	+0.53	December 30, 1897.				January 3, 1898.				
17	45	+1 41	+0.74	11	12	+3 30	+0.46	(4114) 14	34	+0 54	+0.52	13	11		+0.52	
17	51	+1 47	+0.77	11	31	+3 49	+0.42	14	42	+1 2	+0.55	13	20		+0.53	

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1897phae.proj..4460

Diff Magn	Gr. M. T.		Diff Magn	Gr. M. T.		Diff Magn	Gr. M. T.		Diff Magn	Gr. M. T.		Diff Magn
.58	13	29	+0.58									
.68	13	47	+0.73									
.72	13	55	+0.77									
.94	14	2	+0.84									
.98	14	12	+0.87									
.04	14	19	+0.84									
.98	14	26	+0.88									
	14	52	+0.72									
.02	14	59	+0.67									
.96	15	6	+0.62									
.90	15	12	+0.60									
.81	15	19	+0.54									
0.70	15	26	+0.52									
.56	15	48	+0.40									
.52	15	57	+0.48									
.54	16	6	+0.38									
.48												
.50												
.43												
.40												
.36												
.39												
0.42												
.40												
0.40												
.40												
.36												
8.												
.52												
.53												

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1897phae.proj..4460

U Pegasi. Phot. T.

Comp Star. = D M +15° 4916 (8.5)

January 3, 1898.

Gr.	M.	Time.		Diff Magn.	Av. Dev.	Gr.	M.	Time.		Diff Magn.	Av. Dev.	Gr.	M.	Time.		Diff Magn.	Av. Dev.	Gr.
			b	+0.39	-.02				b	+0.70	+.02				b	+0.82	+.05	
				+0.43	+.02					+0.67	-.01					+0.72	-.05	
13	10	57		+0.41	±.020	13	54	41		+0.68	±.015	14	26	1		+0.77	±.050	15
			a	+0.61	+.01				a	+0.80	-.06				a	+0.99	+.01	
				+0.60	.00					+0.93	+.07					+0.97	-.01	
				+0.60	±.005					+0.86	±.065					+0.98	±.010	
				+.19	+0.52	±.012				+.18	+0.77	±.040				+.21	+0.88	±.030
			a	+0.63	-.03				a	+0.96	-.02				a	+0.86	-.01	
				+0.68	+.02					+1.01	+.03					+0.88	+.01	
13	19	44		+0.66	±.025	14	1	45		+0.98	±.025	14	51	57		+0.87	±.010	15
			b	+0.38	-.02				b	+0.70	.00				b	+0.55	+.01	
				+0.41	+.01					+0.71	+.01					+0.52	-.02	
				+0.40	±.015					+0.70	±.005					+0.54	±.015	
				+.26	+0.53	±.020				+.28	+0.84	±.015				+.33	+0.72	±.012
			b	+0.42	.00				b	+0.77	-.02				b	+0.57	+.03	
				+0.43	+.01					+0.81	+.02					+0.52	-.02	
13	29	9		+0.42	±.005	14	11	59		+0.79	±.020	14	59	11		+0.54	±.025	15
			a	+0.74	.00				a	+0.97	+.02				a	+0.51	+.01	
				+0.73	-.01					+0.93	-.02					+0.80	.00	
				+0.74	±.005					+0.95	±.020					+0.80	±.005	
				+.32	+0.58	±.005				+.16	+0.87	±.020				+.26	+0.67	±.015
			a	+0.78	-.06				a	+0.91	-.02				a	+0.72	-.04	
				+0.89	+.05					+0.95	+.02					+0.79	+.03	
13	46	58		+0.84	+.055	14	19	29		+0.93	±.020	15	5	45		+0.76	±.035	15
			b	+0.65	+.03				b	+0.68	-.08				b	+0.50	+.01	
				+0.58	-.04					+0.83	+.07					+0.48	-.01	
				+0.62	±.035					+0.76	±.075					+0.49	±.010	
				+.22	+0.73	±.045				+.17	+0.84	±.048				+.27	+0.62	±.027

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1897phae.proj..4460

U Pegasi. Phot. T.

Comp Star = DM. +15° 4916 (8.8)

January 3, 1898.

Rev.	Gr. M. Time	Diff Magn	Av Dev	Gr. M. Time	Diff Magn	Av Dev	Gr. M. Time	Diff Magn	Av Dev
5		b +0.53	+.02		b +0.40	+.02			
5		+0.49	-.02		+0.36	-.02			
50	15 12 12	+0.51	±.020	15 57 29	+0.38	±.020			
1		a +0.69	+.01		a +0.57	-.01			
1		+0.67	-.01		+0.60	+.02			
10		+0.68	±.010		+0.58	±.015			
30	+.17	+0.60	±.015	+.20	+0.48	±.018			
1		a +0.58	-.04		a +0.44	-.02			
1		+0.67	+.03		+0.47	+.01			
10	15 18 49	+0.62	±.045	16 5 54	+0.46	±.015			
1		b +0.47	+.01		b +0.31	+.01			
2		+0.44	-.02		+0.28	-.02			
15		+0.46	±.015		+0.30	±.015			
12	+.16	+0.54	±.030	+.16	+0.38	±.015			
03		b +0.46	+.04						
12		+0.37	-.05						
25	15 23 30	+0.42	±.045						
1		a +0.61	-.01						
1		+0.62	.00						
05		+0.62	±.005						
15	+.20	+0.52	±.025						
4		a +0.42	-.08						
3		+0.59	+.09						
35	15 44 34	+0.50	±.085						
1		b +0.27	-.03						
1		+0.34	+.04						
10		+0.30	±.035						
22	+.20	+0.40	±.060						

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1897phae.proj..4460

Gr. M. T.	Phase	Diff. Magn.	Gr. M. T.	Phase	Diff. Magn.	Gr. M. T.	Phase	Diff. Magn.	Gr. M. T.	Phase	Diff. Magn.	Gr.
October 18, 1897 = 1873				+3 56			+1 8			+6 38		
	+7 42		17	45 +8 26	+0.74	11	5 +5 38	+0.53	16	30 +2 3	+0.44	15
12 31	+3 12	+0.58		+4 2			+1 13					
	+7 55		17	51 +8 32	+0.77	11	12 +5 45	+0.46	December 30, 1897 = 2065			
12 44	+3 26	+0.66		+4 9			+1 34			+7 39		
	+8 16		17	58 +8 39	+0.82	11	31 +6 14	+0.42	14	34 +2 11	+0.52	Ja
12 53	+3 34	+0.68		+4 10			+1 43			+7 47		
	+8 14		18	5 +8 46	+0.80	11	40 +6 13	+0.43	14	42 +2 19	+0.55	13
13 3	+3 44	+0.78					+1 52			+7 55		
	+8 25		October 29, 1897 = 1902			11	49 +6 22	+0.40	14	50 +2 27	+0.58	13
13 14	+3 55	+0.84		+3 0			+1 58			+8 10		
	+8 36		13	40 +7 30	+0.44	11	55 +6 28	+0.37	15	5 +2 42	+0.68	13
13 25	+4 6	+0.93		+3 12			+2 29			+8 19		
	+8 52		13	52 +7 42	+0.44	12	26 +6 59	+0.40	15	14 +2 51	+0.72	13
13 41	+4 22	+0.98		+3 20			+2 38			+8 33		
	+0 47		14	0 +7 50	+0.53	12	33 +7 6	+0.38	15	28 +3 5	+0.94	13
13 53	+4 34	+1.02		+3 28			+2 44			+8 48		
	+0 16		14	8 +7 58	+0.56	12	41 +7 14	+0.42	15	43 +3 20	+0.98	14
14 5	+4 46	+0.94		+3 37			+2 54			+8 59		
	+0 25		14	17 +8 7	+0.57	12	51 +7 24	+0.46	15	54 +3 31	+1.04	14
14 14	+4 55	+0.71		+3 46			+3 20			+0 8		
	+0 35		14	25 +8 15	+0.70	13	17 +7 50	+0.53	16	3 +3 40	+0.98	14
14 24	+5 5	+0.72		+3 55			+3 30					
	+0 43		14	35 +8 25	+0.73	13	27 +8 0	+0.56	January 1, 1898 = 2073			
14 34	+5 15	+0.59		+4 3			+3 39			+8 57		
	+1 1		14	43 +8 33	+0.85	13	36 +8 9	+0.66	12	44 +4 21	+1.02	14
14 50	+5 31	+0.56		+4 17			+3 52			0 0		
	+1 13		14	52 +8 42	+0.82	13	49 +8 22	+0.70	12	53 +4 30	+0.96	14
15 2	+5 43	+0.46		+4 20			+4 2			+0 10		
	+1 24		15	0 +8 50	+0.79	13	59 +8 32	+0.77	13	3 +4 40	+0.90	15
15 13	+5 54	+0.48		+4 29			+4 20			+0 20		
	+1 40		15	9 +8 59	+0.80	14	17 +8 50	+0.88	13	13 +4 50	+0.81	15
15 29	+6 10	+0.38	Epoch 1903 40				+4 27			+0 30		
	+1 52		15	20 +8 10	+0.78	14	24 +8 37	+0.87	13	23 +5 0	+0.70	15
15 41	+6 22	+0.34		+4 52			Epoch 2063			+0 49		
	+2 2		15	32 +9 22	+0.66	14	34 +9 7	+0.85	13	42 +5 19	+0.56	15
15 51	+6 32	+0.33		+5 1			+4 46			+0 55		
	+2 18		15	41 +8 31	+0.66	14	43 +9 16	+0.85	13	48 +5 25	+0.52	15
16 2	+6 43	+0.46		+5 9			+4 53			+1 3		
	+2 27		15	49 +9 39	+0.58	14	50 +9 23	+0.75	13	56 +5 33	+0.54	15
16 16	+6 57	+0.40		+5 17			+5 10			+1 9		
	+2 37		15	57 +9 47	+0.58	15	7 +9 40	+0.66	14	2 +5 39	+0.48	16
16 26	+7 7	+0.38		+5 29			+5 18			+1 18		
	+2 45		16	9 +9 59	+0.50	15	15 +9 48	+0.58	14	11 +5 48	+0.50	Ja
16 34	+7 15	+0.46		+5 37			+5 27			+1 28		
	+2 59		16	17 +10 7	+0.44	15	21 +9 54	+0.52	14	21 +5 58	+0.45	12
16 48	+7 29	+0.48		+5 45			+5 36			+1 35		
	+3 8		16	25 +10 15	+0.43	15	27 +10 0	+0.52	14	28 +6 5	+0.40	12
16 57	+7 38	+0.48	December 28, 1897 = 2062				+5 36			+2 2		
	+3 20			+0 30		15	33 +10 6	+0.52	14	55 +6 32	+0.36	12
17 9	+7 50	+0.50	10	27 +5 0	+0.73		+6 0			+2 8		
	+3 33			+0 37		15	57 +10 30	+0.44	15	1 +6 38	+0.39	13
17 22	+8 3	+0.61	10	34 +5 7	+0.66		+6 6			+2 14		
	+3 41			+0 45		16	3 +10 36	+0.47	15	7 +6 44	+0.42	13
17 30	+8 11	+0.64	10	42 +5 15	+0.62		+6 16			+2 31		
	+3 48			+0 53		16	13 +10 46	+0.45	15	24 +7 1	+0.40	13
17 37	+8 18	+0.70	10	55 +5 28	+0.58		+6 27			+2 39		
						16	21 +10 54	+0.48	15	32 +7 9	+0.40	13

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Diff. Magn.	Gr. M. T.	Phase.	Diff. Magn.	Gr. M. T.	Phase.	Diff. Magn.	Gr. M. T.	Phase.	Diff. Magn.	Gr. M. T.	Phase.	Diff. Magn.
		+2 48										
0.44	15 41	+7 18	+0.40	13 49								
		+2 35										
=2068	15 48	+7 25	+0.36	13 57								
7.52	January 3, 1898. = 2078			14 3								
		+3 18										
0.55	13 11	+7 48	+0.52	14 29								
		+3 27										
0.58	13 20	+7 57	+0.53	14 37								
		+3 36										
0.68	13 29	+8 6	+0.58	14 44								
		+3 54										
0.72	13 47	+8 24	+0.73	14 50								
		+4 2										
0.94	13 55	+8 32	+0.74	15 16								
		+4 9										
0.98	14 2	+8 39	+0.84	15 25								
		+4 19										
1.04	14 12	+8 49	+0.87	15 35								
		+4 26										
0.98	14 19	+8 56	+0.84									
		+4 33										
0.73	14 26	+0 3	+0.88									
		+4 59										
1.02	14 52	+0 29	+0.72									
		+5 6										
0.96	14 59	+0 36	+0.67									
		+5 13										
0.90	15 6	+0 43	+0.62									
		+5 19										
0.81	15 12	+0 49	+0.60									
		+5 26										
0.70	15 19	+0 56	+0.54									
		+5 33										
0.56	15 26	+1 3	+0.52									
		+5 55										
0.52	15 48	+1 25	+0.40									
		+6 4										
0.54	15 57	+1 34	+0.48									
		+6 13										
0.48	16 6	+1 43	+0.38									
0.50	January 5, 1898. =											
0.45	12 36											
0.40	12 45											
0.36	12 53											
0.39	13 2											
0.42	13 11											
0.40	13 33											
0.40	13 41											

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U Pegasi. Phot. T.

Comp. Star. = DM +15° 4969 (8.5)

January 5, 1895.

Gr.	M. Time.		Diff. Magn.	Av. Dev.	Gr.	M. Time.		Diff. Magn.	Av. Dev.	Gr.	M. Time.		Diff. Magn.	Av. Dev.	Gr.
		b	+0.34	−.02			b	+0.34	+.02			b	+0.39	+.08	
			+0.38	+.02				+0.29	−.03				+0.23	−.08	
12	36	23	+0.36	±.020	13	11	0	+0.32	±.025	13	56	41	+0.31	±.080	14
		a	+0.39	−.02			a	+0.38	+.02			a	+0.38	+.03	
			10.63	+.02				+0.54	−.02				+0.32	−.03	
			+0.61	±.020				+0.56	±.020				+0.55	±.030	
		+.25	+0.48	±.020			+.24	+0.44	±.022			+.24	+0.43	±.053	
		a	+0.47	−.05			a	+0.47	−.03			a	+0.53	.00	
			+0.56	+.04				+0.51	+.04				+0.53	.00	
12	44	36	+0.52	±.045	13	32	42	+0.50	±.035	14	2	40	+0.53	.000	14
		b	+0.38	+.02			b	+0.30	−.01			b	+0.38	+.03	
			+0.35	−.01				+0.32	+.01				+0.32	−.03	
			+0.36	±.015				+0.31	±.015				+0.35	±.030	
		+.16	+0.44	±.030			+.19	+0.40	±.025			+.18	+0.44	±.015	
		b	+0.35	.00			b	+0.34	+.04			b	+0.46	+.06	
			+0.35	.00				+0.27	−.03				+0.34	−.06	
12	53	28	+0.35	.000	13	40	38	+0.30	±.035	14	28	43	+0.40	±.060	15
		a	+0.55	.00			a	+0.56	+.02			a	+0.65	−.01	
			+0.55	.00				+0.53	−.01				+0.66	.00	
			+0.55	.000				+0.54	±.015				+0.66	±.005	
		+.20	+0.45	.000			+.24	+0.42	±.025			+.26	+0.53	±.032	
		a	+0.50	−.06			a	+0.54	+.02			a	+0.61	−.04	
			+0.62	+.06				+0.49	−.03				+0.69	+.04	
13	1	33	+0.56	±.060	13	48	33	+0.52	±.025	14	37	8	+0.65	±.040	15
		b	+0.34	−.02			b	+0.38	+.03			b	+0.35	+.01	
			+0.38	+.02				+0.32	−.03				+0.37	−.02	
			+0.36	±.020				+0.35	±.030				+0.36	±.015	
		+.20	+0.46	±.040			+.17	+0.44	±.028			+.21	+0.50	±.028	

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1897phae.proj..4460

U Pegasi. Phot. T.

Comp Star = DM +15° 4916 (8.8)

January 5, 1898.

Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.
	+0.44	.00		+0.80	.00			
	+0.44	.00		+0.79	−.01			
14h 43m 59s	+0.44	.000	15h 31m 45s	+0.80	±.005			
	+0.69	.00		+1.03	−.01			
	+0.69	.00		+1.04	.00			
	+0.69	.000		+1.04	±.005			
+25	+0.56	.000	+24	+0.92	±.005			
	+0.73	+.02						
	+0.71	−.02						
14h 50m 25s	+0.73	±.020						
	+0.42	−.04						
	+0.50	+.04						
	+0.46	±.040						
+27	+0.60	±.030						
	+0.56	−.03						
	+0.62	+.03						
15h 16m 18s	+0.59	±.030						
	+1.05	+.03						
	+0.99	−.03						
	+1.02	±.030						
+43	+0.80	±.030						
	+1.08	−.02						
	+1.12	+.02						
15h 25m 7s	+1.10	±.020						
	+0.76	−.02						
	+0.80	+.02						
	+0.78	±.020						
+32	+0.94	±.020						

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1897phae.proj..4460

R. 95. P 56.

U Pegasi. Phot. G.

Comp Star = DM +15° 4916 (8.5)

January 7, 1895.

Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr.
	a	+0.55	+.01		a	+0.62	+.06		a	+0.66	-.04	
		+0.54	.00			+0.50	-.06			+0.75	+.05	
10 37 19		+0.54	±.005	11 16 21		+0.56	±.060	11 52 30		+0.70	±.045	12
.4426	b	+0.36	+.04	.4697	f	+0.35	+.02	.4948	f	+0.50	-.01	
		+0.29	-.03			+0.31	-.02			+0.52	+.01	
		+0.32	±.035			+0.33	±.020			+0.51	±.010	
	+.22	+0.43	±.020		+.23	+0.44	±.040		+.19	+0.60	±.025	
	f	+0.30	-.02		f	+0.38	+.01		f	+0.53	.00	
		+0.35	+.03			+0.36	-.01			+0.53	.00	
10 48 23		+0.32	±.025	11 25 4		+0.37	±.010	12 0 39		+0.53	.000	12
.4503	a	+0.51	-.03	.4758	a	+0.62	.00	.5004	a	+0.80	-.01	
		+0.58	+.04			+0.61	-.01			+0.82	+.01	
		+0.54	±.035			+0.62	±.005			+0.81	±.010	
	+.22	+0.43	±.030		+.25	+0.50	±.008		+.28	+0.67	±.005	
	a	+0.56	-.02		a	+0.62	-.04		a	+0.80	-.06	
		+0.61	+.03			+0.69	+.03			+0.91	+.05	
10 58 15		+0.58	±.025	11 38 22		+0.66	±.035	12 10 30		+0.86	±.055	13
.4570	f	+0.24	+.04	.4850	f	+0.46	+.03	.5072	f	+0.59	-.05	
		+0.17	-.03			+0.40	-.03			+0.69	+.05	
		+0.20	±.035			+0.43	±.030			+0.64	±.050	
	+.38	+0.39	±.030		+.23	+0.54	±.032		+.22	+0.75	±.052	
	f	+0.31	+.02		f	+0.43	.00		f	+0.74	.00	
		+0.27	-.02			+0.43	.00			+0.73	-.01	
11 5 18		+0.29	±.020	11 46 2		+0.43	.000	12 18 36		+0.74	±.005	13
.4620	a	+0.51	-.01	.4903	a	+0.73	.00	.5129	a	+0.99	-.02	
		+0.52	.00			+0.73	.00			+1.03	+.02	
		+0.52	±.005			+0.73	.000			+1.01	±.020	
	+.23	+0.40	±.012		+.30	+0.58	.000		+.27	+0.88	±.012	

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1997phac.proj.:4460

U Pegasi. Phot. T.

Comp. Star = D M +15° 4916 (8.8)

January 7, 1895.

Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.
04		a +1.03	-.03		a +0.70	-.06		a +0.61	+.01
05		+1.08	+.02		+0.81	+.05		+0.58	-.02
.045	12 32 46	+1.06	±.025	13 37 16	+0.76	±.055	14 20 48	+0.60	±.015
	.5228			.5676			.5978		
01		f +0.81	+.01		f +0.49	+.01		f +0.23	-.07
01		+0.79	-.01		+0.46	-.02		+0.38	+.08
010		+0.80	±.010		+0.48	±.015		+0.30	±.045
028	+.26	+0.93	±.018	+.28	+0.62	±.035	+.30	+0.45	±.045
00		f +0.83	-.03		f +0.42	-.04		f +0.30	-.03
00		+0.89	+.03		+0.51	+.05		+0.36	+.03
000	12 54 45	+0.86	±.030	13 47 29	+0.46	±.045	14 33 59	+0.33	±.030
	.5381			.5746			.6069		
01		a +1.06	+.02		a +0.70	.00		a +0.60	+.01
01		+1.03	-.01		+0.70	.00		+0.58	-.01
010		+1.04	±.015		+0.70	.00		+0.59	±.010
005	+.18	+0.95	±.022	+.24	+0.58	±.022	+.26	+0.46	±.020
06		a +1.04	+.02		a +0.62	-.01		a +0.62	+.02
05		+1.01	-.01		+0.64	+.01		+0.59	-.01
055	13 7 0	+1.02	±.015	13 59 34	+0.63	±.010	14 43 15	+0.60	±.015
	.5465			.5830			.6133		
05		f +0.68	-.02		f +0.51	+.07		f +0.37	+.06
05		+0.73	+.03		+0.37	-.07		+0.25	-.06
050		+0.70	±.025		+0.44	±.070		+0.31	±.060
052	+.32	+0.86	±.020	+.19	+0.54	±.040	+.29	+0.46	±.038
00		f +0.55	-.05		f +0.33	+.01		f +0.34	.00
01		+0.64	+.04		+0.32	.00		+0.35	+.01
005	13 22 57	+0.60	±.045	14 9 59	+0.32	±.005	14 54 0	+0.34	±.005
	.5576			.5903			.6208		
02		a +0.93	+.04		a +0.53	-.05		a +0.60	-.01
02		+0.85	-.04		+0.63	+.05		+0.62	+.01
020		+0.89	±.040		+0.58	±.050		+0.61	±.010
012	+.29	+0.74	±.042	+.26	+0.45	±.028	+.27	+0.48	±.008

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1897phae.proj.4460

U Pegasi. Phot. T.

January 7, 1898.

Gr. M. Time		Diff. Magn.	Av. Dev.
	a	+0.52'	−.014
		+0.59'	+.03
15 1 38'		+0.56'	±.035
.6261'	f	+0.31'	−.05
		+0.42'	+.06
		+0.36'	±.055
	+.20	+0.46'	±.045
	f	+0.28'	−.02
		+0.33'	+.03
15 11 29'		+0.30'	±.025
.6330'	a	+0.61'	+.05
		+0.51'	−.05
		+0.56'	±.050
	+.26	+0.43'	±.038

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1897phae.proj..4460

R. 95. P. 112.

S Cancri. Phot. I.

Comp. Star. = +19° 2088 (9.0)

Jan. 17, 1898.

Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.
	f	+0.64	−.05		f	+0.78	.00		f	+0.82	.00
		+0.74	+.05			+0.79	+.01			+0.83	+.01
11 23 24		+0.69	±.050	12 0 15		+0.78	±.005	12 41 20		+0.82	±.005
.4746		+0.77	−.01	.5001		+0.76	.00	.5287		+0.84	−.04
−.5076	a	+0.80	+.02	−.5076	a	+0.77	+.01	−.5076	a	+0.91	+.03
−.0330		+0.78	±.015	−.0075		+0.76	±.005	+.0211		+0.88	±.035
+.09		+0.71	±.032	−.02		+0.77	±.005	+.06		+0.85	±.040
	a	+0.84	.00		a	+0.83	.00		a	+0.83	−.03
		+0.83	−.01			+0.83	.00			+0.88	+.02
11 34 52		+0.84	±.005	12 8 19		+0.83	.000	12 47 22		+0.86	±.025
.4825		+0.67	+.01	.5058		+0.80	+.04	.5329		+0.73	−.03
−.5076	f	+0.64	−.02	−.5076	f	+0.73	−.03	−.5076	f	+0.80	+.04
−.0251		+0.66	±.015	−.0018		+0.76	±.035	+.0253		+0.76	±.035
+.18		+0.75	±.010	+.07		+0.80	±.018	+.10		+0.81	±.030
	f	+0.68	.00		f	+0.77	+.03		f	+0.76	+.06
		+0.67	−.01			+0.71	−.03			+0.64	−.06
11 43 33		+0.68	±.005	12 25 17		+0.74	±.030	12 54 33		+0.70	±.060
.4886		+0.72	−.02	.5176		+0.77	−.01	.5379		+0.77	−.01
−.5076	a	+0.75	+.01	−.5076	a	+0.78	.00	−.5076	a	+0.80	+.02
−.0190		+0.74	±.015	+.0100		+0.78	±.005	+.0303		+0.78	±.015
+.06		+0.71	±.010	+.04		+0.76	±.018	+.08		+0.74	±.038
	a	+0.71	−.03		a	+0.74	−.02		a	+0.79	−.01
		+0.78	+.04			+0.77	+.01			+0.82	+.02
11 51 5		+0.74	±.035	12 32 34		+0.76	±.015	13 3 58		+0.80	±.015
.4938		+0.78	−.04	.5226		+0.81	+.03	.5444		+0.89	+.08
−.5076	f	+0.85	+.03	−.5076	f	+0.74	−.04	−.5076	f	+0.73	−.08
−.0138		+0.82	±.035	+.0150		+0.78	±.035	+.0368		+0.81	±.080
−.08		+0.78	±.035	−.02		+0.77	±.025	−.01		+0.80	±.048

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1897phae.proj...4460

S Cancri (cont.) Phot. I.

Comp. Star = +19° 2088. (9.0)

Jan. 17, 1898.

Gr. M. Time		Diff. Magn.	Av. Dev.
	b	+0.79	+.03
		+0.73	−.03
13 30 19		+0.76	±.030
.5627	a	+0.92	+.04
−.5076		+0.83	−.05
+.0551		+0.88	±.045
		+0.82	±.038
−.12			
	b	+0.92	+.04
		+0.83	−.05
13 38 11		+0.88	±.045
.5682	b	+0.75	−.01
−.5076		+0.76	.00
+.0606		+0.76	±.005
		+0.82	±.025
+.12			
	b	+0.75	+.02
		+0.71	−.02
13 48 9		+0.73	±.020
.5751	a	+0.79	+.01
−.5076		+0.76	−.02
+.0675		+0.78	±.015
		+0.76	±.018
+.05			
	a	+0.83	−.01
		+0.85	+.01
13 56 34		+0.84	+.010
.5810	b	+0.71	−.09
−.5076		+0.89	+.09
+.0734		+0.80	±.090
		+0.82	±.050
+.04			

Gr. M. Time		Diff. Magn.	Av. Dev.
	b	+0.85	+.02
		+0.81	−.02
14 4 44		+0.83	±.020
.5866	a	+0.83	−.01
−.5076		+0.85	+.01
+.0790		+0.84	±.010
		+0.84	±.015
+.01			
	a	+0.79	+.03
		+0.72	−.04
14 24 12		+0.76	±.035
.6001	b	+0.78	+.01
−.5076		+0.76	−.01
+.0925		+0.77	±.010
		+0.76	±.022
−.01			
	b	+0.83	+.01
		+0.82	.00
14 29 37		+0.82	±.005
.6039	a	+0.80	−.06
−.5076		+0.91	+.05
+.0963		+0.86	±.055
		+0.84	±.030
+.04			
	a	+0.72	−.03
		+0.78	+.03
14 35 13		+0.75	±.030
.6077	b	+0.75	+.03
−.5076		+0.70	−.02
+.1001		+0.72	±.025
		+0.74	±.028
+.03			

Gr. M. Time		Diff. Magn.	Av. Dev.
	b	+0.72	.00
		+0.72	.00
14 40 24		+0.72	.000
.6114	a	+0.68	−.07
−.5076		+0.82	+.07
+.1038		+0.75	±.070
		+0.74	±.035
+.03			
	a	+0.77	.00
		+0.77	.00
14 45 24		+0.77	.000
.6149	b	+0.70	.00
−.5076		+0.69	−.01
+.1073		+0.70	±.005
		+0.74	±.027
+.07			
	b	+0.63	−.02
		+0.67	+.02
14 50 45		+0.65	±.020
.6186	a	+0.76	+.08
−.5076		+0.61	−.07
+.1110		+0.68	±.075
		+0.66	±.048
+.03			
	a	+0.72	+.05
		+0.62	−.05
14 56 9		+0.67	±.050
.6223	b	+0.67	+.05
−.5076		+0.58	−.04
+.1147		+0.62	±.045
		+0.64	±.048
+.05			

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S Cancri. Phot. T.

Jan. 17, 1895.

Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.
00		f	+0.59	-.01
00			+0.60	.00
00	15 1 15		+0.60	±.005
07	.6258 -.5076 +.1182	a	+0.65	.00
07			+0.65	.00
070			+0.65	.000
035		+.05	+0.62	±.002

S Cygni. Phot.

Comp. Star = m = 8.93.

January 15, 1895.

Gr. M. Time		Diff. Magn.	Av. Dev.
	a	-0.26	-.02
		-0.23	+.01
13 55 12 .5820		-0.24	±.015
	f	-0.58	-.02
		-0.54	+.02
		-0.56	±.020
	+.32	-0.40	±.018
	f	-0.54	+.01
		-0.56	-.01
14 5 10 .5869		-0.56	±.010
	a	-0.26	+.04
		-0.35	-.05
		-0.30	±.045
	+.25	-0.42	±.028

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1897phae.proj..4460

128

B. 95. P. 151.

W Delphini. Phot. G.

Comp. Star = a = 9.27

January 24, 1898.

Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr.
	a	+1.47	-.05		a	+1.19	+.01		a	+2.00	-.04	
		+1.58	+.06			+1.16	-.02			+2.09	+.05	
10 57 7		+1.52	±.055	11 30 8		+1.18	±.015	14 17 26		+2.04	+.040	.15
.4563	b	+1.09	+.03	.4793	b	+0.84	-.02		b	+2.25	-.05	
-.3830		+1.04	-.02	-.3830		+0.87	+.01			+2.34	+.084	
+.0733		+1.06	±.025	+.0963		+0.86	±.013			+2.30	±.045	
+.46		10.56 +1.29	±.040	+.32		10.29 +1.02	±.015	-.26		+2.17	±.045	
	b	+1.01	+.04		b	+0.93	-.07		b	+2.45	+.03	
		+0.93	-.04			+1.08	+.06			+2.40	-.02	
11 5 3		+0.97	±.040	11 37 31		+1.02	±.065	14 36 13		+2.42	+.020	.15
.4618	a	+1.36	+.02	.4844	a	+1.16	+.13		a	+2.00	-.02	
-.3830		+1.31	-.03	-.3830		+0.90	-.13			+2.05	+.03	
+.0788		+1.34	±.025	+.1014		+1.03	±.130			+2.52	±.025	
+.37		10.43 +1.16	±.032	+.01		10.29 +1.02	±.098	+.10		+2.47	±.020	
	a	+1.26	-.03						a	+2.37	-.09	
		+1.32	+.03							+2.55	+.09	
11 13 36		+1.29	±.030					14 49 5		+2.46	±.090	
.4678	b	+0.96	+.02						b	+2.33	-.09	
-.3830		+0.92	-.02							+2.02	+.10	
+.0848		+0.94	±.020	Oct. 15, 1898.						+2.42	±.090	
+.35		10.39 +1.12	±.025					+.04		+2.44	±.092	
	b	+0.99	+.06		b	+1.88	-.06		b	+2.53	-.01	
		+0.87	-.06			+1.99	+.05			+2.54	.00	
11 21 28		+0.93	±.060	13 59 15		+1.94	±.055	14 58 9		+2.54	.005	
.4733	a	+1.20	+.04		a	+2.13	+.08		a	+2.64	+.01	
-.3830		+1.12	±.04			+1.97	-.05			+2.62	-.01	
+.0903		+1.16	±.040			+2.05	±.080			+2.63	±.010	
+.23		10.31 +1.04	±.050	+.11		+2.00	±.055	+.09		+2.58	±.008	

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1897phae.proj..4460

S Cancri (Full Brightness) Phot. I.

Comp. Star = DM +19° 2088 (9.0)

Jan. 25, 1898.						Feb. 3, 1898.						Mar. 8 1898					
Dec.	Gr. M. Time.			Diff. Magn.	Av. Dev.	Gr. M. Time.			Diff. Magn.	Av. Dev.		Gr. M. Time.			Diff. Magn.	Av. Dev.	
24			a	-1.30	+.06			b	-1.32	+.04				a	-1.41	+.01	
5				-1.41	-.05				-1.39	-.03					-1.42	.00	
40	15	51	35	-1.36	±.055	14	46	48	-1.36	±.035		15	48	06	-1.42	±.005	
5			b	-1.35	-.01			a	-1.36	-.06				b	-1.24	-.01	
84				-1.33	+.01				-1.25	+.05					-1.22	+.01	
45				-1.34	±.010				-1.30	±.055					-1.23	±.010	
45			-.02	-1.35	±.032			+.06	-1.33	±.045				-.19	-1.32	±.008	
3			b	-1.27	-.03			a	-1.31	-.04				b	-1.25	-.01	
2				-1.22	+.02				-1.23	+.04					-1.22	+.02	
25	15	59	44	-1.24	±.025	14	54	48	-1.27	±.040		15	54	40	-1.24	±.015	
2			a	-1.28	-.06			b	-1.41	-.08				a	-1.45	-.04	
3				-1.39	+.05				-1.25	+.08					-1.37	+.04	
25				-1.34	±.055				-1.33	±.080					-1.41	±.040	
25			-.10	-1.29	±.040			+.06	-1.30	±.060				-.17	-1.32	±.028	
9								b	-1.32	-.02				a	-1.45	-.01	
9									-1.27	+.03					-1.44	.00	
90						15	2	7	-1.30	±.025		16	02	06	-1.44	±.005	
9								a	-1.37	-.03				b	-1.18	+.05	
0									-1.30	+.04					-1.28	-.05	
15									-1.34	±.035					-1.23	±.050	
92								-.04	-1.32	±.030				-.21	-1.34	±.028	
91														b	-1.26	.00	
0															-1.26	.00	
95												16	09	22	-1.26	.000	
91														a	-1.38	.00	
1															-1.37	+.01	
10															-1.38	±.005	
08														-.12	-1.32	±.002	

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1897phae.proj..4460

R Canis Majoris. Phot. I.

Comp. Star = S.D. −15° 1774 (9.1) A.

Feb 4 1895.

Gr.	M.	Time		Diff. Magn.	Av. Dev.	Gr.	M.	Time		Diff. Magn.	Av. Dev.	Gr.	M.	Time		Diff. Magn.	Av. Dev.	Gr.
			a	−3.16	+.04				a	−3.33	−.01				a	−3.56	.00	
				−3.23	−.03					−3.34	.00					−3.53	+.01	
13	12	30		−3.20	±.035	13	42	24		−3.34	±.005	14	33	17		−3.56	±.005	15
	.5504						.5711						.6064					
	−.5031		f	−3.52	−.02		−.5031		f	−3.55	+.01		−.5031		f	−3.79	+.01	
	+.0473			−3.47	+.03		+.0680			−3.56	.00		+.1033			−3.80	.00	
				−3.50	±.025					−3.56	±.005					−3.80	±.005	
				+.30	−3.35	±.030				+.22	−3.45	±.005				+.24	−3.68	±.005
			f	−3.47	−.02				f	−3.64	+.02				f	−3.80	.03	
				−3.43	+.02					−3.68	−.02					−3.74	+.03	
13	20	23		−3.45	±.020	13	55	50		−3.66	±.020	14	40	20		−3.77	±.030	15
	.5559						.5805						.6113					
	−.5031		a	−3.28	.00		−.5031		a	−3.46	−.02		−.5031		a	−3.56	.00	
	+.0528			−3.29	−.01		+.0774			−3.43	+.01		+.1082			−3.56	.00	
				−3.28	±.005					−3.44	±.015					−3.56	.000	
				+.17	−3.36	±.012				+.22	−3.55	±.018				+.21	−3.66	±.015
			a	−3.22	.00				a	−3.51	−.03				a	−3.59	−.03	
				−3.22	.00					−3.46	+.02					−3.53	+.03	
13	27	39		−3.22	.000	14	2	57		−3.48	±.025	14	48	28		−3.56	±.030	15
	.5608						.5854						.6171					
	−.5031		f	−3.36	+.05		−.5031		f	−3.77	−.03		−.5031		f	−3.69	+.02	
	+.0577			−3.46	−.05		+.0823			−3.70	+.04		+.1140			−3.73	−.02	
				−3.41	±.050					−3.74	±.035					−3.71	±.020	
				+.19	−3.32	±.025				+.26	−3.61	±.030				+.15	−3.64	±.025
			f	−3.42	−.01				f	−3.85	−.05				f	−3.89	−.05	
				−3.40	+.01					−3.76	+.04					−3.80	+.04	
13	33	49		−3.41	±.010	14	26	16		−3.80	±.045	14	56	19		−3.84	±.045	15
	.5652						.6016						.6224					
	−.5031		a	−3.33	−.01		−.5031		a	−3.58	.00		−.5031		a	−3.61	−.04	
	+.0621			−3.32	.00		+.0985			−3.58	.00		+.1193			−3.53	+.04	
				−3.32	±.005					−3.58	.000					−3.57	±.040	
				+.09	−3.36	±.008				+.22	−3.69	±.022				+.27	−3.70	±.042

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R Canis Majoris. (con) Phot. I.

Comp. Star. = SD. −15° 1774 (9.1) A.

Feb 4, 1898. March 8, 1898. Full Brightness.

Dec.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.
00		a	−3.59	−.01		a	−3.74	+.02			
01			−3.56	+.02			−3.70	−.02			
005	15 4		−3.58	±.015	14 20	40	−3.72	±.020			
01	.6279	b	−3.83	+.01		b	−3.79	−.01			
00	−.5031		−3.85	−.01			−3.77	+.01			
005	+.1248		−3.84	±.010			−3.78	±.010			
005	+.26		−3.71	±.012		+.06	−3.75	±.015			
3		b	−3.76	+.02		b	−3.71	.00			
03			−3.79	−.01			−3.71	.00			
030	15 12 19		−3.78	±.015	14 29	10	−3.71	.000			
00	.6335	a	−3.51	+.01		a	−3.39	−.02			
10	−.5031		−3.53	−.01			−3.35	+.02			
00	+.1304		−3.52	±.010			−3.37	±.020			
015	+.26		−3.65	±.012		+.34	−3.54	±.010			
03		a	−3.52	−.01		a	−3.37	+.02			
03			−3.50	+.01			−3.41	−.02			
030	15 44 1		−3.51	±.010	14 38	48	−3.39	±.020			
2	.6556	b	−3.81	−.03		b	−3.64	−.02			
02	−.5031		−3.76	+.02			−3.60	+.02			
020	+.1525		−3.78	±.025			−3.62	±.020			
025	+.27		−3.61	±.018		+.23	−3.50	±.020			
05		b	−3.66	+.05		b	−3.58	.00			
04			−3.83	−.09			−3.59	−.01			
045	15 51 1		−3.74	±.085	14 47	03	−3.58	±.005			
04	.6604	a	−3.57	+.05		a	−3.55	+.01			
04	−.5031		−3.67	−.05			−3.57	−.01			
040	+.1573		−3.62	±.030			−3.56	±.010			
042	+.12		−3.68	±.078		+.02	−3.57	±.008			

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1897phae.proj..4460

Light Eq. applied to Ephemeris.

β Persei. Phot. V.

Comp. Star = ω Persei.

Feb. 26, 1895.

Gr. M. Time		Diff. Magn	Av. Dev.	Gr. M. Time		Diff Magn	Av. Dev.	Gr. M. Time		Diff Magn.	Av. Dev.
	a	-2.62	+.02		a	-2.00	+.06		a	-1.68	+.03
		-2.67	-.03			-2.13	-.07			-1.74	-.03
12 40	50	-2.64	±.025	14 26	34	-2.06	±.065	15 33	1	-1.71	±.030
.5284				.6018				.6489			
-.6344	f	-2.54	-.08	-.6344	f	-2.00	-.08	-.6344	f	-1.67	-.07
-.1060		-2.39	+.07	-.0326		-1.85	+.07	+.0135		-1.53	+.07
		-2.46	±.075			-1.92	±.075			-1.60	±.070
	-.18	-2.55	±.050		-.14	-1.99	±.070		-.09	-1.66	±.050
	f	-2.33	+.05		f	-1.83	-.04		f	-1.44	+.02
		-2.42	-.04			-1.75	+.04			-1.47	-.01
13 0	16	-2.38	±.045	14 58	12	-1.79	±.040	15 44	37	-1.46	±.015
.5419				.6237				.6560			
-.6344	a	-2.48	-.02	-.6344	a	-1.87	+.02	-.6344	a	-1.64	+.02
-.0925		-2.43	+.03	-.0107		-1.91	-.02	+.0216		-1.68	-.02
		-2.46	+.025			-1.89	±.020			-1.66	±.020
	-.08	-2.42	±.035		-.10	-1.84	±.030		-.20	-1.56	±.018
	a	-2.25	-.02		a	-1.82	.00				
		-2.21	+.02			-1.83	-.01				
13 47	29	-2.23	±.020	15 10	19	-1.82	±.005				
.5744				.6321							
-.6344	f	-2.17	-.03	-.6344	f	-1.75	-.07				
-.0597		-2.10	+.04	-.0023		-1.61	+.06				
		-2.14	±.035			-1.68	±.065				
	-.09	-2.18	±.028		-.14	-1.75	±.035				
	f	-2.08	+.02		f	-1.69	-.01				
		-2.12	-.02			-1.68	.00				
14 3	42	-2.10	±.020	15 21	29	-1.68	±.005				
.5859				.6400							
-.6344	a	-2.20	-.06	-.6344	a	-1.87	-.07				
-.0485		-2.09	+.05	+.0046		-1.74	+.06				
		-2.14	±.055			-1.80	±.065				
	-.04	-2.12	±.038		-.12	-1.74	±.035				

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1897phae.proj..4460

Light Eq. applied to Ephemeris.

β Persei. Photo V

.v021

March 1, 1898.

ω = comp. plate

Dev	Gr M Time		Diff. Magn	Av Dev	Gr M Time		Diff. Magn	Av Dev	Gr M Time		Diff. Magn	Av Dev
.03		a	-1.81	-.03		a	-1.61	+01		a	-1.88	-.02
.03			-1.75	+.03			-1.62	±00			-1.85	+.01
.030	12 25	36	-1.78	±.030	13 18	16	-1.62	±.005	14 13	49	-1.86	±.015
.07	.v178	b	-1.61	±.00	.v544	b	-1.54	+.03	.v930	b	-1.95	+.03
	-.v021		-1.60	±.00	-.v021		-1.60	-.03	-.v021		-2.01	-.03
.07	+.0157				+.0523				+.0909			
.070			-1.60	±.00			-1.57	±.030			-1.98	±.030
.050	+.18		-1.69	±.015	+.08		-1.60	±.018	-.12		-1.92	±.022
.07		b	-1.49	+.07		b	-1.60	+.09		b	-2.09	+.03
.01			-1.64	-.08			-1.78	-.09			-2.15	-.03
.015	12 35	v7	-1.56	±.070	13 39	15	-1.69	±.090	14 28	49	-2.12	±.030
.07	.v250	a	-1.62	+.02	.v689	a	-1.70	-.02	.6034	a	-1.91	+.09
	-.v021		-1.67	-.03	-.v021		-1.67	+.01	-.v021		-2.10	-.10
.02	+.0229				+.0668				+.1013			
.020			-1.64	±.025			-1.68	±.015			-2.00	±.095
.018	+.08		-1.60	±.050	-.01		-1.68	±.052	-.12		-2.06	±.062
		a	-1.57	+.04		a	-1.78	+.01		a	-2.03	+.05
			-1.65	-.04			-1.80	-.01			-2.12	-.04
	12 45	22	-1.61	±.040	13 48	07	-1.79	±.010	14 36	31	-2.08	±.045
	.v315	b	-1.60	+.02	.v757	b	-1.79	-.02	.6086	b	-2.12	-.02
	-.v021		-1.63	-.01	-.v021		-1.75	+.02	-.v021		-2.08	+.02
	+.0294				+.0730				+.1065			
			-1.62	±.015			-1.77	±.020			-2.10	±.020
	-.01		-1.62	±.028	+.02		-1.78		-.02		-2.09	±.032
		b	-1.60	-.04		b	-1.91	+.01		b	-2.21	-.01
			-1.51	+.05			-1.94	-.02			-2.19	+.01
	12 59	10	-1.56	±.045	14 05	41	-1.92	±.015	15 02	04	-2.20	±.010
	.v411	a	-1.61	-.01	.v873	a	-1.86	+.06	.6265	a	-2.25	.00
	-.v021		-1.58	+.02	-.v021		-1.97	-.05	-.v021		-2.25	.00
	+.0390				+.0852				+.1244			
			-1.60	±.015			-1.92	±.055			-2.25	.00
	+.04		-1.58	±.030	.00		-1.92	±.035	+.05		-2.22	±.005

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B Persei.

Continued from page 133

Gr M Time		Diff. Magn	Gr Dev
	a	-2.26	-.04
		-2.19	+.03
15 09 59		-2.22	±.035
.6319	b	-2.31	-.05
-.5021		-2.21	+.05
+.1298		-2.26	±.050
-.04		-2.24	±.042
	b	-2.29	+.02
		-2.33	-.02
15 31 12		-2.31	±.020
.6466	a	-2.33	-.01
-.5021		-2.30	+.02
+.1445		-2.32	±.015
+.01		-2.32	±.018
	a	-2.29	+.06
		-2.41	-.06
15 40 07		-2.35	±.060
.6529	b	-2.40	±.00
-.5021		-2.39	+.01
+.1508		-2.40	±.005
-.05		-2.38	±.032
	b	-2.57	+.04
		-2.65	-.04
16 30 26		-2.61	±.040
.6878	a	-2.61	+.03
-.5021		-2.67	-.03
+.1857		-2.64	±.030
+.03		-2.62	±.035

Gr M Time		Diff. Magn	Gr Dev
	a	-2.73	-.01
		-2.72	.00
16 38 02		-2.72	±.005
.6931	b	-2.71	-.02
-.5021		-2.67	+.02
+.1910		-2.69	±.020
+.03		-2.70	±.012

Gr

12

12

13

13

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1897phae.proj.:4460

β Persei. Full Brightness. Phot. V.

Comp. Star = ω Persei.

March 3, 1898.				March 8, 1898.				April 16, 1898.			
Gr.	M.	Time	Diff. Magn.	Av. Dev.	Gr.	M.	Time	Diff. Magn.	Av. Dev.	Gr.	M.	Time	Diff. Magn.	Av. Dev.
			b -2.65	-.07				a -2.85	-.05				b -2.47	-.01
			-2.52	+.06				-2.74	+.06				-2.44	+.02
12	36	2	-2.58	±.065	13	01	14	-2.80	±.055	13	04	07	-2.46	±.015
			a -2.74	+.02				b -2.71	-.05				a -2.46	+.05
			-2.77	-.01				-2.61	+.05				-2.56	-.05
			-2.76	±.015				-2.66	±.050				-2.51	±.050
			-.18 -2.67	±.040				-.14 -2.73	±.052				-.05 -2.48	±.032
			a -2.72	+.02				b -2.66	+.04				a -2.53	+.01
			-2.77	-.03				-2.74	-.04				-2.54	.00
12	48	50	-2.74	±.025	13	11	01	-2.70	±.040	13	20	04	-2.54	±.005
			b -2.67	.00				a -2.74	+.04				b -2.57	+.05
			-2.67	.00				-2.81	-.03				-2.66	-.04
			-2.67	.000				-2.78	±.035				-2.62	±.045
			-.07 -2.70	±.012				-.08 -2.74	±.038				+.08 -2.58	±.025
			b -2.69	-.01				a -2.77	-.02				b -2.61	-.03
			-2.67	+.01				-2.73	+.02				-2.56	+.02
13	08	56	-2.68	±.010	13	23	18	-2.75	±.020	13	35	06	-2.58	±.025
			a -2.73	-.01				b -2.68	+.02				a -2.62	-.03
			-2.72	.00				-2.71	-.01				-2.56	+.03
			-2.72	±.005				-2.70	±.015				-2.59	±.030
			-.04 -2.70	±.008				-.05 -2.72	±.018				-.01 -2.58	±.028
			a -2.71	-.01									a -2.56	+.03
			-2.70	.00									-2.62	-.03
13	22	22	-2.70	±.005						13	51	06	-2.59	±.030
			b -2.77	-.02									b -2.59	+.01
			-2.73	+.02									-2.61	-.01
			-2.75	±.020									-2.60	±.010
			+.05 -2.72	±.012									+.01 -2.60	±.020

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1896. page 95

L Cancri. Phot. G.

Comp. Star. = +19° 2088 (9.0)

March 5, 1895.

Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr. M. Time.		Diff. Magn.	Av. Dev.	Gr.
	b	-1.36	-.02		b	-1.24	+.04		b	-1.27	+.01	
		-1.33	+.01			-1.31	-.03			-1.29	-.01	
11 37 34		-1.34	±.015	12 22 46		-1.28	±.035	13 12 32		-1.28	±.010	14
.4844'				.5159'				.5504'				
-.9253	a	-1.32	+.04	-.9253	a	-1.37	-.04	-.9253	a	-1.29	-.01	
-.4409		-1.41	-.05	-.4094		-1.29	+.04	-.3749		-1.26	+.02	
		-1.36	±.045			-1.33	±.040			-1.28	±.015	
	-.02	-1.35	±.030		-.05	-1.30	±.035		.00	-1.28	±.012	
	a	-1.35	-.02		a	-1.32	+.02		a	-1.21	-.03	
		-1.31	+.02			-1.36	-.02			-1.15	+.03	
11 46 41		-1.33	±.020	12 33 02		-1.34	±.020	13 22 25		-1.18	±.030	14
.4908'				.5229'				.5572'				
-.9253	b	-1.46	-.03	-.9253	b	-1.36	.00	-.9253	b	-1.36	-.02	
-.4345		-1.40	+.03	-.4024		-1.36	.00	-.3681		-1.33	+.01	
		-1.43	±.030			-1.36	.00			-1.34	±.015	
	+.10	-1.38	±.025		+.02	-1.35	±.010		+.16	-1.26	±.027	
	b	-1.39	+.01		b	-1.34	-.03		b	-1.29	-.01	
		-1.40	.00			-1.28	+.03			-1.28	.00	
11 56 35		-1.40	±.005	12 43 49		-1.31	±.030	13 39 58		-1.28	±.005	14
.4976'				.5305'				.5694'				
-.9253	a	-1.21	-.03	-.9253	a	-1.20	-.03	-.9253	a	-1.13	-.01	
-.4277		-1.15	+.03	-.3948		-1.14	+.03	-.3559		-1.10	+.02	
		-1.18	±.030			-1.17	±.030			-1.12	±.015	
	+.22	-1.29	±.018		+.14	-1.24	±.030		+.16	-1.20	±.010	
	a	-1.14	.00		a	-1.16	-.01		b	-1.04	-.02	
		-1.13	+.01			-1.14	+.01			-1.00	+.02	
12 08 56		-1.14	±.005	12 56 15		-1.15	±.010	13 56 34		-1.02	±.020	14
.5061'				.5390'				.5810'				
-.9253	b	-1.21	+.05	-.9253	b	-1.21	+.03	-.9253	a	-1.16	+.01	
-.4192		-1.32	-.06	-.3863		-1.28	-.04	-.3443		-1.18	-.01	
		-1.26	±.055			-1.24	±.035			-1.17	±.010	
	+.12	-1.20	±.030		+.09	-1.20	±.022		-.15	-1.10	±.015	

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1897phae..proj.. 4460

S Cancri (con) Phot. T.

Comp Star = +19° 2058 (9.0)

March 5, 1898.

Ev.	Gr. M. Time		Diff Magn	Av. Dev.	Gr. M. Time		Diff Magn	Av. Dev.	Gr. M. Time		Diff Magn	Av. Dev.
01		a	-1.29	-.01		b	-1.16	-.03		b	-0.89	+.01
01			-1.27	+.01			-1.10	+.03			-0.90	.00
010	14 08 24		-1.28	±.010	15 03 58		-1.13	±.030	15 53 43		-0.90	±.005
01	.5892'	b	-1.29	-.01	.6278'	a	-1.17	+.01	.6623'	a	-0.94	.00
	-.9253				-.9253				-.9253			
	-.3361				-.2975				-.2630			
02			-1.27	+.01			-1.18	.00			-0.94	.00
015			-1.28	±.010			-1.18	±.025			-0.94	.000
012		.00	-1.28	±.010		-.05	-1.16	±.018		-.04	-0.92	±.007
03		b	-1.24	.00		a	-1.00	+.04		a	-1.00	-.04
03			-1.24	.00			-1.07	-.03			-0.92	+.04
030	14 30 31		-1.24	.000	15 19 40		-1.04	±.035	16 10 02		-0.96	±.040
02	.6046"	a	-1.14	.00	.6387'	b	-0.95	.00	.6736'	b	-0.77	-.01
	-.9253				-.9253				-.9253			
	-.3207				-.7866				-.2517			
01			-1.14	.00			-0.95	.00			-0.75	+.01
015			-1.14	.000			-0.95	.000			-0.76	±.010
027		+.10	-1.19	.000		-.09	-1.00	±.018		-.20	-0.86	±.025
01		a	-1.16	+.02		b	-0.97	-.03		b	-.0.77	.00
00			-1.19	-.01			-0.91	+.03			-0.77	.00
005	14 37 02		-1.18	±.015	15 29 43		-0.94	±.030	16 22 53		-0.77	.000
01	.6090'	b	-1.17	-.08	.6456'	a	-1.07	.00	.6825'	a	-0.90	-.05
	-.9253				-.9253				-.9253			
	-.3163				-.2797				-.2428			
02			-1.01	+.08			-1.07	.00			-0.80	+.05
015			-1.09	±.080			-1.07	.000			-0.85	±.050
010		-.09	-1.14	±.048		-.13	-1.00	±.015		-.08	-0.81	±.025
02		b	-1.01	+.02		a	-1.04	-.02		a	-0.91	-.05
02			-1.05	-.02			-0.99	+.03			-0.81	+.05
020	14 48 30		-1.03	±.020	15 44 47		-1.02	±.025	16 33 25		-0.86	±.050
01	.6170'	a	-1.12	-.04	.6562'	b	-0.89	-.01	.6899'	b	-0.74	.00
	-.9253				-.9253				-.9253			
	-.3083				-.2691				-.2354			
01			-1.04	+.04			-0.88	.00			-0.75	-.01
010			-1.08	±.040			-0.88	±.005			-0.74	±.005
015		-.05	-1.06	±.030		-.14	-0.95	±.015		-.17	-0.80	±.028

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S Sancri (cont)

March 5, 1898.

Gr. M. Time.		Diff Magn.	Av Dev
	f	-0.73	-.02
		-0.69	+.02
16 51 50		-0.71	±.020
.7027			
-.9253	a	-0.76	.00
-.2226		-0.76	.00
		-0.76	.000
-.05		-0.74	±.010
	a	-0.71	+.02
		-0.75	-.02
17 01 40		-0.73	±.020
.7095			
-.9253	f	-0.62	-.02
-.2158		-0.59	+.01
		-0.60	±.015
-.13		-0.66	±.018
	f	-0.54	-.03
		-0.48	+.03
17 09 37		-0.51	±.030
.7150			
-.9253	a	-0.65	+.01
-.2103		-0.66	.00
		-0.66	±.005
-.15		-0.58	±.018
	a	-0.61	+.01
		-0.62	.00
17 18 56		-0.62	±.005
.7214			
-.9253	f	-0.50	-.02
-.2039		-0.45	+.03
		-0.48	±.025
-.14		-0.55	±.015

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R Can Maj Phot I 139

March 9, 1898 Comp Star = −15° 1774 (9.1) A

Gr M Time		Diff Magn	Cor Den	Gr. M. Time		Diff Magn	Cor Den	Gr M Time		Diff Magn	Cor Den
	a	−3.23	+.02		a	−3.50	+.04		a	−3.66	.00
		−3.27	−.02			−3.57	−.03			−3.67	−.01
11 48 25		−3.25	±.020	12 37 36		−3.54	±.035	13 27 55		−3.66	±.005
	b	−3.42	−.01		b	−3.77	+.01		b	−3.79	−.01
		−3.40	+.01			−3.74	+.02			−3.77	+.01
		−3.41	±.010			−3.76	±.015			−3.78	±.010
	+.16	−3.33	±.015		+.22	−3.65	±.025		+.12	−3.72	±.008
	b	−3.45	−.01		b	−3.75	+.01		b	−3.75	.00
		−3.42	+.02			−3.77	−.01			−3.75	.00
11 56 59		−3.44	±.015	12 51 4		−3.76	±.010	13 36 50		−3.75	.000
	a	−3.22	−.04		a	−3.50	−.04		a	−3.44	−.02
		−3.15	+.03			−3.41	+.05			−3.40	+.02
		−3.18	±.035			−3.46	±.045			−3.42	±.020
	+.26	−3.31	±.025		+.30	−3.61	±.026		+.33	−3.58	±.010
	a	−3.20	.00		a	−3.55	.00		a	−3.32	+.05
		−3.20	.00			−3.55	.00			−3.42	−.05
12 10 17		−3.20	±.000	13 02 11		−3.55	±.000	13 55 19		−3.37	±.050
	b	−3.40	.00		b	−3.68	+.03		b	−3.77	−.01
		−3.40	.00			−3.74	−.03			−3.75	+.01
		−3.40	±.000			−3.71	±.030			−3.76	±.010
	+.20	−3.30	±.000		+.16	−3.63	±.015		+.39	−3.56	±.030
	b	−3.39	+.03		b	−3.80	+.04		b	−3.79	−.01
		−3.45	−.03			−3.71	−.05			−3.77	+.01
12 22 32		−3.42	±.030	13 18 01		−3.76	±.045	14 03 46		−3.78	±.010
	a	−3.63	−.07		a	−3.71	−.04		a	−3.61	.00
		−3.48	+.08			−3.63	+.04			−3.61	.00
		−3.56	±.075			−3.67	±.040			−3.61	±.000
	−.14	−3.44	±.052		+.09	−3.72	±.042		+.17	−3.70	±.005

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1897phae.proj...4460

R Can Maj

Mar 9, 1898.

Comp. Stars for R. Canis Majoris.

SD. −15°,1774 (9.1) compared with SD. −15°,1766 (8.0)

March 14 1898

h	m	Time	Diff Magn	Dev	Gr. M. Time	Diff Magn	Av Dev.	Gr. M. Time	Diff Magn	Av Dev.	Gr
		a	−3.64	−.02		a +1.18	+.02		b +1.21		
			−3.61	+.01		+1.14	−.02		+1.14		
14	11	02	−3.62	±.015	14 52 11	+1.16	±.020	12 53.5	+1.18		14
		b	−3.91	−.05		f +1.47	−.01		a +1.44		
			−3.81	+.05		+1.49	+.01		+1.40		
			−3.86	±.050		+1.48	±.010		+1.42		
		+.24	−3.74	±	−.32	+1.32	±.015		+1.30		
		b	−3.77	.00		f +1.54	.00		+1.38		
			−3.77	.00		+1.53	−.01		+1.45		
14	19	43	−3.77	±.000	14 59 +1	+1.54	±.005	13 04.0	+1.42		14
		a	−3.45	+.01		a +1.12	−.04		+1.16		
			−3.46	.00		+1.19	+.03		+1.15		
			−3.46	±.005		+1.16	±.035		+1.16		
		+.31	−3.62	±.002	−.38	+1.35	±.020		+1.29		
					a	+1.14	−.02		+1.09		
						+1.18	+.02		+1.08		
					15 06 +1	+1.16	±.020	16 08.0	+1.08		14
					f	+1.34	−.02		+1.28		
						+1.39	+.03		+1.32		
						+1.36	±.025		+1.30		
					−.20	+1.26	±.027		+1.19		
									+1.29		
									+1.32		
								16 16.5	+1.30		
									+1.14		
									+1.23		
									+1.18		
									+1.24		

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1897phae..proj..4460

R Canis Majoris (Full Brightness) Phot. I.

Comp. Star = −15° 1774 (9.1) A

March 11, 1898.

Gr. M. Time		Diff Magn.	Av Dev	Gr. M. Time	Diff Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.
	a	−3.44	+.06						
		−3.57	−.07						
14 11 21		−3.50	±.065						
	b	−3.59	−.07						
		−3.44	+.08						
		−3.52	±.075						
	+.02	−3.51	±.070						
	b	−3.63	−.01						
		−3.62	.00						
14 23 09		−3.62	±.005						
	a	−3.31	+.02						
		−3.35	−.02						
		−3.33	±.020						
	+.29	−3.48	±.012						
	a	−3.40	.00						
		−3.40	.00						
14 36 41		−3.40	.000						
	b	−3.63	+.02						
		−3.67	−.02						
		−3.65	±.020						
	+.25	−3.52	±.010						

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2.96 page 163.

R Canis Majoris. Phot. T.

Comp. Star = −15° 1774 (9.1) A.

March 10, 1898.

Gr.	M. Time		Diff Magn.	Av. Dev.	Gr.	M. Time		Diff Magn.	Av. Dev.	Gr.	M. Time		Diff Magn.	Av. Dev.	Gr.
		a	−3.28	+.04			a	−3.39	−.03			a	−3.16	.00	
			−3.35	−.03				−3.33	+.03				−3.15	+.01	
11	36	11	−3.32	±.035	12	29	9	−3.36	±.030	13	14	45	−3.16	±.005	14
		f	−3.79	−.04			f	−3.38	.00			f	−3.20	−.04	
			−3.71	+.04				−3.37	+.01				−3.11	+.05	
			−3.75	±.040				−3.38	±.005				−3.16	±.045	
		+.43	−3.54	±.038			+.02	−3.37	±.018			.00	−3.16	±.025	
		f	−3.81	−.10			f	−3.39	+.01			f	−3.16	−.01	
			−3.61	+.10				−3.42	−.07				−3.14	+.01	
11	47	04	−3.71	±.100	12	45	36	−3.40	±.015	13	23	51	−3.15	±.010	14
		a	−3.47	−.03			a	−3.30	+.01			a	−3.11	−.03	
			−3.40	+.04				−3.32	−.01				−3.06	+.07	
			−3.44	±.035				−3.31	±.010				−3.08	±.025	
		+.37	−3.58	±.068			+.09	−3.36	±.017			+.07	−3.12	±.018	
		a	−3.41	+.05			a	−3.25	+.03			a	−2.99	−.01	
			−3.52	−.06				−3.31	−.03				−2.98	.00	
12	5	37	−3.46	±.055	12	55	59	−3.28	±.030	13	38	32	−2.98	±.005	14
		f	−3.71	−.01			f	−3.35	+.01			f	−3.20	−.02	
			−3.68	+.02				−3.36	.00				−3.17	+.01	
			−3.70	±.015				−3.36	±.005				−3.18	±.015	
		+.24	−3.58	±.035			+.08	−3.37	±.018			+.20	−3.08	±.010	
		f	−3.73	−.02			f	−3.41	−.03			f	−3.14	+.07	
			−3.69	+.02				−3.35	+.03				−3.17	−.01	
12	18	29	−3.71	±.020	13	05	52	−3.38	±.030	13	49	50	−3.16	±.015	14
		a	−3.40	.00			a	−3.13	.00			a	−2.80	+.01	
			−3.41	−.01				−3.13	.00				−2.82	−.01	
			−3.40	±.005				−3.13	.000				−2.81	±.010	
		+.31	−3.56	±.012			+.25	−3.26	±.015			+.35	−2.98	±.012	

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1897phae..proj..4460

β Canis Majoris. Phot. I.

Comp Star = −15° 1774 (9.1) A

March 10 1898

Dev	Gr. M. Time	Diff Magn.	Av. Dev.	Gr. M. Time	Diff Magn.	Av. Dev.	Gr. M. Time	Diff Magn.	Av. Dev.
00	a	-2.79	+.01	a	-2.93	+.01	a	-3.37	+.01
01		-2.80	.00		-2.94	.00		-3.40	-.02
005	14 01 51	-2.80	±.005	14 45 39	-2.94	±.005	15 58 28	-3.38	±.015
04	f	-3.02	-.01	f	-3.19	+.05	f	-3.70	-.04
05		-3.00	+.01		-3.28	-.04		-3.61	+.05
045		-3.01	±.010		-3.24	±.045		-3.66	±.045
025	+.21	-2.90	±.008	+.15	-3.09	±.025	+.28	-3.52	±.030
01	f	-2.96	+.03	f	-3.23	+.03	f	-3.76	+.01
01		-3.02	-.03		-3.29	-.03		-3.78	-.01
010	14 13 44	-2.99	±.030	14 54 53	-3.26	±.030	16 13 51	-3.77	±.010
03	a	-2.97	-.01	a	-3.26	.00	f	-3.58	.00
07		-2.96	.00		-3.26	.00		-3.58	.00
025		-2.96	±.005		-3.26	.000		-3.58	.000
018	+.03	-2.98	±.018	.00	-3.26	±.015	+.19	-3.68	±.005
01	a	-2.97	+.05	a	-3.27	-.01	a	-3.59	+.01
00		-3.07	-.05		-3.24	+.02		-3.62	-.02
005	14 23 56	-3.02	±.050	15 24 24	-3.26	±.015	16 27 27	-3.60	±.015
02	f	-3.07	+.02	f	-3.52	+.06	f	-3.62	-.02
01		-3.11	-.02		-3.65	-.07		-3.58	+.02
015		-3.09	±.020		-3.58	±.065		-3.60	±.020
010	+.07	-3.06	±.035	+.32	-3.42	±.040	.00	-3.60	±.018
02	f	-3.24	+.02	f	-3.56	+.04			
01		-3.28	-.02		-3.65	-.05			
015	14 37 14	-3.26	±.020	15 43 54	-3.60	±.045			
01	a	-2.99	-.01	a	-3.29	-.02			
01		-2.96	+.02		-3.25	+.02			
010		-2.98	±.015		-3.27	±.020			
012	+.28	-3.12	±.018	+.33	-3.44	±.032			

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1897phae.proj..4460

B Canis Majoris. Phot. I.

Monday March 14, 1898.

Gr M Time		Diff. Mag	Dev	Gr M Time		Diff. Mag	Dev	Gr M Time		Diff. Mag	Dev
	b	-3.41	+.05		b	-3.59	+.01		b	-3.63	-.01
		-3.51	-.05			-3.60	00			-3.60	+.02
13 15 47		-3.46	±.050	14 02 55		-3.60	±.005	14 47 58		-3.62	±.015
14		-3.33	-.07	14		-3.34	+.03	14		-3.43	-.02
0.5527	a	-3.20	+.06	0.5860	a	-3.40	-.03	0.6167	a	-3.39	+.02
13.9914		-3.26	±.065	13.9914		-3.37	±.030	13.9914		-3.41	±.030
+0.5613				+0.5946				+0.6253			
	+.20	-3.36	±.058		+.23	-3.48	±.016		+.21	-3.52	±.018
	a	-3.44	-.03		a	-3.41	-.03		a	-3.42	-.04
		-3.38	+.03			-3.35	+.03			-3.44	.04
13 27 55		-3.41	±.030	14 15 57		-3.38	±.030	14 56 44		-3.38	±.040
14		-3.59	+.01	14		-3.61	-.01	14		-3.62	+.04
0.5610	b	-3.60	00	0.5944	b	-3.59	+.01	0.6227	b	-3.69	-.03
13.9914		-3.60	±.005	13.9914		-3.60	±.010	13.9914		-3.66	±.035
+0.5696				+0.6030				+0.6313			
	+.19	-3.50	±.016		+.22	-3.49	±.020		+.28	-3.52	±.038
	b	-3.58	00		b	-3.62	+.01		b	-3.67	00
		-3.58	00			-3.64	00			-3.67	00
13 40 45		-3.58	000	14 27 32		-3.64	±.005	15 06 07		-3.67	000
14		-3.31	+.03	14		-3.19	+.05	14		-3.36	-.02
0.5700	a	-3.38	-.04	0.6025	a	-3.28	-.04	0.6293	a	-3.32	+.02
13.9914		-3.34	±.035	13.9914		-3.24	±.045	13.9914		-3.34	±.020
+0.5786				+0.6111				+0.6379			
	+.24	-3.46	±.018		+.40	-3.44	±.025		+.33	-3.50	±.010
	a	-3.35	-.02		a	-3.27	+.01		a	-3.36	00
		-3.31	+.02			-3.30	-.02			-3.37	-.01
13 49 39		-3.33	±.020	14 40 15		-3.28	±.015	15 17 43		-3.36	±.006
14		-3.54	-.02	14		-3.58	-.02	14		-3.57	-.01
0.5761	b	-3.49	+.03	0.6112	b	-3.55	+.01	0.6373	b	-3.54	+.02
13.9914		-3.52	±.020	13.9914		-3.56	±.015	13.9914		-3.56	±.015
+0.5847				+0.6198				+0.6459			
	+.19	-3.42	±.022		+.28	-3.42	±.015		+.20	-3.46	±.010

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R Canis Majoris. Phot. T.

March 14, 1898

Dec	Gr. Mt. Time	Diff. Magn	Diff. Dev
.01	b	-3.55	+.03
02		-3.60	-.02
.015	10 28 09	-3.58	±.025
02	14 8.6446	-3.49	-.01
02	13.9914 a	-3.47	+.01
.030	+0.6531c	-3.48	±.010
.018	+.10	-3.53	±.018
.04	a	-3.51	-.05
.04		-3.40	+.06
.040	10 39 42	-3.46	±.055
.04	14 8.6526	-3.70	-.03
.03	13.9914 b	-3.64	+.03
.035	+0.6612	-3.67	±.030
.038	+.21	-3.56	±.042
00	b	-3.57	+.02
00		-3.61	-.02
.000	10 48 38	-3.59	±.020
.02	14 8.6587	-3.28	+.02
.02	13.9914 a	-3.33	-.03
.020	+0.6673	-3.30	±.025
.010	+.29	-3.44	±.022
00	a		
.01			
.006			
.01			
.02			
.016			
.010			

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R Canis Majoris. Phot. T.

R 97. page 13.

Comp. Star = S.D. -15°, 1774 (9.1)

March 17, 1895.

Gr. M. Time	Diff Magn	Av. Dev.	Gr. M. Time	Diff Magn	Av. Dev.	Gr. M. Time	Diff Magn	Av. Dev.	Gr.
	f -3.74	-.04		f -3.56	+.06		f -3.68	-.02	
	-3.67	+.03		-3.68	-.06		-3.63	+.03	
12 52 25	-3.70	±.035	13 27 01	-3.62	±.060	14 12 57	-3.66	±.025	15
	a -3.33	+.05		a -3.41	+.03		a -3.39	+.01	
	-3.42	-.04		-3.47	-.03		-3.40	.00	
	-3.38	±.045		-3.44	±.030		-3.40	±.005	
	+.32 -3.54	±.040		+.18 -3.53	±.045		+.26 -3.53	±.015	
	a -3.36	+.02		a -3.42	+.01		a -3.37	+.01	
	-3.39	-.01		-3.44	-.01		-3.40	-.02	
13 02 04	-3.38	±.015	13 34 43	-3.43	±.010	14 32 42	-3.38	±.015	15
	f -3.60	.00		f -3.62	-.07		f -3.70	.00	
	-3.59	+.01		-3.57	+.03		-3.69	+.01	
	-3.60	±.005		-3.60	±.025		-3.70	±.005	
	+.27 -3.49	±.010		+.17 -3.52	±.018		+.32 -3.54	±.010	
	f -3.56	+.06		f -3.58	+.08		f -3.59	+.01	
	-3.70	-.06		-3.75	-.09		-3.62	-.02	
13 09 19	-3.64	±.060	13 43 50	-3.66	±.085	14 41 17	-3.60	±.015	15
	a -3.46	-.02		a -3.40	+.02		a -3.55	-.01	
	-3.42	+.02		-3.44	-.02		-3.53	+.01	
	-3.44	±.020		-3.42	±.020		-3.54	±.010	
	+.20 -3.54	±.040		+.24 -3.54	±.052		+.06 -3.57	±.012	
	a -3.43	+.01		a -3.44	+.02		a -3.53	-.02	
	-3.46	-.02		-3.49	-.03		-3.49	+.02	
13 17 24	-3.44	±.015	13 57 30	-3.46	±.025	14 52 06	-3.51	±.020	15
	f -3.51	+.09		f -3.61	-.01		f -3.58	+.01	
	-3.70	-.10		-3.59	+.01		-3.60	-.01	
	-3.60	±.095		-3.60	±.010		-3.59	±.010	
	+.16 -3.52	±.055		+.14 -3.53	±.018		+.08 -3.55	±.015	

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1997phae.proj..4460

R Canis Majoris — Phot. T.

SD-15°1774 with SD-15°1766.

	Mar. 17, 1898.					Mar. 17, 1898.				
	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.
2		f	-3.63	-.01		f	-3.70	-.01		b	+1.08	-.03
3			-3.62	.00			-3.68	+.01			+1.14	+.03
25	15 00	45	-3.62	±.005	15 53	22	-3.69	±.010	12 30	0	+1.11	±.030
1		a	-3.32	+.02		a	-3.43	-.01		a	+1.37	.00
0			-3.37	-.03			-3.42	.00			+1.37	.00
25			-3.34	±.025			-3.42	±.005			+1.37	.000
15		+.14	-3.48	±.015		+.27	-3.56	±.008			+1.24	±.065
1		a	-3.47	-.04						a	+1.37	+.01
2			-3.39	+.04							+1.36	.00
15	15 13	40	-3.43	±.040					12 40	0	+1.36	±.005
0		f	-3.66	.00						f	+1.26	-.02
1			-3.67	-.01							+1.31	+.03
05			-3.66	±.005							+1.28	±.025
10		+.23	-3.54	±.022							+1.37	±.015
1		f	-3.67	+.03						a	+1.18	.00
2			-3.73	-.03							+1.17	-.01
15	15 25	34	-3.70	±.030					16 07	0	+1.18	±.005
1		a	-3.46	-.02						f	+1.55	+.04
1			-3.41	+.03							+1.41	-.04
10			-3.44	±.025							+1.48	±.040
12		+.26	-3.57	±.028							+1.33	±.038
3		a	-3.50	-.02						f	+1.36	-.01
2			-3.47	+.01							+1.38	+.01
20	15 44	17	-3.48	±.015					16 18	0	+1.37	±.010
1		f	-3.68	+.02						a	+1.21	+.03
			-3.72	-.02							+1.16	-.02
10			-3.70	±.020							+1.18	±.025
15		+.27	-3.59	±.018							+1.28	±.018

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Vr. 97. page. 33.

R Canis Majoris. Phot. D.

Comp. Star = SD −15° 1774 (9.1)

March. 15, 1895.

Gr.	M.	Time		Diff Magn.	Av. Dev.	Gr.	M.	Time		Diff Magn.	Av. Dev.	Gr.	M.	Time		Diff Magn.	Av. Dev.	Gr
			f	−3.23	−.03				f	−3.01	+.03				f	−3.36	−.02	
				−3.17	+.03					−3.07	−.03					−3.33	+.01	
12	23	52		−3.20	±.030	13	07	01		−3.04	±.030	13	56	38		−3.34	±.015	14
			a	−3.04	−.01				a	−2.92	.00				a	−3.21	−.05	
				−3.02	+.01					−2.92	.00					−3.12	+.04	
				−3.03	±.010					−2.92	.000					−3.16	±.045	
			+.17	−3.12	±.020				+.12	−2.98	±.015				+.18	−3.25	±.030	
			a	−3.09	−.01				a	−2.87	+.05				a	−3.24	+.02	
				−3.07	+.01					−2.97	−.05					−3.29	−.03	
12	34	47		−3.08	±.010	13	23	28		−2.92	±.050	14	16	42		−3.26	±.025	
			f	−3.11	+.05				f	−3.17	.00				f	−3.52	.00	
				−3.20	−.04					−3.17	.00					−3.53	−.01	
				−3.16	±.045					−3.17	.000					−3.52	±.005	
			+.08	−3.12	±.028				+.25	−3.04	±.025				+.26	−3.39	±.045	
			f	−3.14	+.02				f	−3.25	−.01				f	−3.56	−.02	
				−3.17	−.01					−3.24	.00					−3.53	+.01	
12	45	14		−3.16	±.015	13	36	09		−3.24	±.005	14	26	00		−3.54	±.015	
			a	−2.86	.00				a	−3.01	+.01				a	−3.30	−.01	
				−2.86	.00					−3.02	.00					−3.25	+.01	
				−2.86	.000					−3.02	±.005					−3.29	±.010	
			+.30	−3.01	±.008				+.22	−3.13	±.005				+.25	−3.42	±.012	
			a	−2.94	−.06				a	−2.99	.00				a	−3.34	−.01	
				−2.81	+.07					−2.99	.00					−3.32	+.01	
12	56	52		−2.88	±.065	13	46	16		−2.99	.000	14	36	10		−3.33	±.010	
			f	−3.10	−.02				f	−3.32	−.04				f	−3.52	+.01	
				−3.07	+.01					−3.24	+.04					−3.54	−.01	
				−3.08	±.015					−3.28	±.040					−3.53	±.010	
			+.20	−2.98	±.040				+.29	−3.14	±.020				+.20	−3.43	±.010	

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1897phae..proj..4460

R Canis Majoris. Phot.

R Canis Majoris

March. 18, 1898.			Apr. 6, 1898			Apr. 1, 1898.		
Gr. M. Time	Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.
	b −3.59	−.02		b −3.50	+.04		a −3.40	+.04
	−3.55	+.02		−3.59	−.05		−3.44	−.03
14 49 51	−3.57	±.020	12 40 02	−3.54	±.045	12 26 01	−3.44	±.035
	a −3.46	−.02		a −3.44	−.02		b −3.68	−.02
	−3.41	+.03		−3.39	+.03		−3.63	+.03
	−3.44	±.025		−3.42	±.025		−3.66	±.025
	+.13 −3.50	±.022		+.12 −3.48	±.035		+.22 −3.55	±.030
				a −3.41	+.03		b −3.59	+.03
				−3.46	−.02		−3.66	−.04
			12 52 23	−3.44	±.025	12 33 36	−3.62	±.035
				b −3.57	−.02		a −3.54	+.02
				−3.53	+.02		−3.58	−.02
				−3.55	±.020		−3.56	±.020
				+.11 −3.50	±.022		+.06 −3.59	±.025
				b −3.56	+.04			
				−3.63	−.03			
			13 10 32	−3.60	±.035			
				a −3.56	−.04			
				−3.47	+.05			
				−3.52	±.045			
				+.08 −3.56	±.040			
				a −3.54	−.02			
				−3.50	+.02			
			13 27 39	−3.52	±.020			
				b −3.65	−.01			
				−3.62	+.02			
				−3.64	±.015			
				+.12 −3.58	±.018			

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R.97 page 52

S Cancri. Phot. T.

Comp. Star = +19° 2058 (9.0)

R.97. p. 123.

March 24, 1898. Gr. M. Time.	Diff. Magn.	Av. Dev.	March. 24, 1898. Gr. M. Time.	Diff. Magn.	Av. Dev.	Apr. 6, 1898. Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr
b	-1.21	+.05	b	-1.19	-.03	b	-1.32	.00	
	-1.31	-.05		-1.12	+.04		-1.32	.00	
12 08 05	-1.26	±.050	14 28 01	-1.16	±.035	15 44 45	-1.32	.000	12
a	-1.21	+.05	a	-1.14	-.02	a	-1.43	.00	
	-1.30	-.04		-1.09	+.03		-1.43	.00	
	-1.26	±.045		-1.12	±.025		-1.43	.000	
.00	-1.26	±.048	+.04	-1.14	±.030	-.11	-1.38	.000	
a	-1.36	-.02	a	-1.03	+.01	a	-1.43	-.02	
	-1.32	+.02		-1.06	-.02		-1.39	+.02	
12 20 53	-1.34	±.020	14 56 09	-1.04	±.015	15 50 25	-1.41	±.020	12
b	-1.05	-.01	b	-0.93	-.01	b	-1.31	-.01	
	-1.04	.00		-0.91	+.01		-1.29	+.01	
	-1.04	±.005		-0.92	±.010		-1.30	±.010	
-.30	-1.19	±.012	-.12	-0.98	±.012	-.11	-1.36	±.015	
b	-1.29	.00				b	-1.26	-.01	
	-1.29	.00					-1.24	+.01	
12 37 44	-1.29	.000				15 56 36	-1.25	±.010	12
a	-1.13	+.01				a	-1.44	.00	
	-1.16	-.02					-1.45	-.01	
	-1.14	±.015					-1.44	±.005	
+.15	-1.22	±.008	May 2, 1898 (#13)			-.19	-1.34	±.008	
a	-1.17	-.03	a	-1.36	-.02				
	-1.12	+.02		-1.31	+.03				
13 01 05	-1.14	±.025	13 39 15	-1.34	±.025				12
b	-1.34	-.09	b	-1.22	.00				
	-1.16	+.09		-1.21	+.01				
	-1.25	±.090		-1.22	±.005				
+.11	-1.20	±.058	-.12	-1.28	±.015				

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R 97. page 70

R Canis Majoris. Phot G

Comp. Star. = −15° 1774 (9.1)

March 26, 1898.

Ser.	Gr. M. Time		Diff. Magn.	av. Dev.	Gr. M. Time		Diff. Magn.	av. Dev.	Gr. M. Time		Diff. Magn.	av. Dev.
0		b	−3.07	+.02		b	−3.28	+.04		b	−3.55	+.05
0			−3.11	−.02			−3.36	−.04			−3.65	−.05
00	12	02 53	−3.09	±.020	12	48 36	−3.32	±.040	13	43 17	−3.60	±.050
0		a	−2.88	.00		a	−3.10	+.05		a	−3.53	−.05
0			−2.87	+.01			−3.20	−.05			−3.44	+.04
00			−2.88	±.005			−3.15	±.050			−3.48	±.045
00		+.21	−2.98	±.012		+.17	−3.24	±.045		+.12	−3.54	±.045
02		a	−2.87	+.03		a	−3.30	+.02		a	−3.45	+.09
02			−2.93	−.03			−3.34	−.03			−3.64	−.10
020	12	13 39	−2.90	±.030	13	08 56	−3.32	±.025	14	02 20	−3.54	±.095
01		b	−3.26	−.05		b	−3.47	−.01		b	−3.44	+.12
01			−3.16	+.05			−3.44	+.02			−3.68	−.12
010			−3.21	±.050			−3.46	±.015			−3.56	±.120
015		+.31	−3.06	±.040		+.14	−3.39	±.020		+.02	−3.55	±.108
01		b	−3.21	+.03		b	−3.60	−.01				
01			−3.27	−.03			−3.58	+.01				
010	12	25 24	−3.24	±.030	13	20 02	−3.59	±.010				
00		a	−2.97	+.05		a	−3.29	+.03				
01			−3.08	−.06			−3.35	−.03				
002			−3.02	±.053			−3.32	±.030				
008		+.11	−3.13	±.042		+.27	−3.46	±.020				
		a	−3.00	+.06		a	−3.31	+.01				
			−3.12	−.06			−3.33	−.01				
	12	35 42	−3.06	±.060	13	31 09	−3.32	±.010				
		b	−3.16	+.06		b	−3.70	.00				
			−3.28	−.06			−3.69	+.01				
			−3.22	±.060			−3.70	±.005				
		+.16	−3.14	±.060		+.38	−3.51	±.008				

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H. 97. p. 126.

R Canis Majoris — Phot. D.

Comp. Star = SD. −15° 1774 (9.1)

April 7, 1898.

Gr.	M.	Time		Diff. Magn.	Av. Dev.	Gr.	M.	Time		Diff. Magn.	Av. Dev.	Gr.	M.	Time		Diff. Magn.	Av. Dev.	Gr.
			f	−3.59	−.04				f	−3.61	+.01				f	−3.67	−.04	
				−3.51	+.04					−3.62	.00					−3.59	+.04	
12	15	14		−3.55	±.040	13	06	51		−3.62	±.005	14	08	28		−3.63	±.040	14
			a	−3.51	+.01				a	−3.40	+.04				a	−3.42	−.01	
				−3.54	−.02					−3.49	−.05					−3.40	+.01	
				−3.52	±.015					−3.44	±.045					−3.41	±.010	
			+.03	−3.54	±.028				+.18	−3.53	±.025				+.22	−3.52	±.025	
			a	−3.44	−.02				a	−3.48	−.02				a	−3.43	+.01	
				−3.39	+.03					−3.45	+.01					−3.46	−.02	
12	27	03		−3.42	±.025	13	27	26		−3.46	±.015	14	19	29		−3.44	±.015	15
			f	−3.64	.00				f	−3.62	−.01				f	−3.65	−.01	
				−3.63	+.01					−3.60	+.01					−3.64	.00	
				−3.64	±.005					−3.61	±.010					−3.64	±.005	
			+.22	−3.53	±.015				+.15	−3.54	±.012				+.20	−3.54	±.010	
			f	−3.63	−.03				f	−3.64	−.01				f	−3.59	+.01	
				−3.56	+.04					−3.62	+.01					−3.62	−.02	
12	44	27		−3.60	±.035	13	36	00		−3.63	±.010	14	26	26		−3.60	±.015	15
			a	−3.45	+.04				a	−3.46	+.04				a	−3.53	−.04	
				−3.53	−.04					−3.54	−.04					−3.45	+.04	
				−3.49	±.040					−3.50	±.040					−3.49	±.040	
			+.11	−3.54	±.038				+.13	−3.56	±.025				+.11	−3.54	±.028	
			a	−3.51	.00				a	−3.54	−.01				a	−3.55	−.01	
				−3.51	.00					−3.52	+.01					−3.53	+.01	
12	57	49		−3.51	.000	13	59	38		−3.53	±.010	14	36	35		−3.52	±.010	
			f	−3.61	.00				f	−3.51	+.01				f	−3.68	.00	
				−3.61	.00					−3.66	−.05					−3.69	−.01	
				−3.61	.000					−3.58	±.075					−3.68	±.005	
			+.10	−3.56	.000				+.05	−3.56	±.042				+.14	−3.61	±.005	

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1897phae..proj..4460

R Canis Majoris. Phot. F.

Comp. Star = S D − 15° 1774 (9.1)

April 7, 1895.

	Gr. M. Time		Diff. Magn.	av. Dev.	Gr. M. Time	Diff. Magn.	av. Dev.	Gr. M. Time	Diff. Magn.	av. Dev.
		b	−3.65	+.01						
			−3.66	.00						
	14	47 08	−3.66	±.005						
		a	−3.52	−.02						
			−3.49	+.01						
			−3.50	±.015						
		+.16	−3.58	±.010						
		a	−3.36	+.04						
			−3.44	−.04						
	15	00 43	−3.40	±.040						
		b	−3.59	+.03						
			−3.66	−.04						
			−3.62	±.035						
		+.22	−3.51	±.038						
		b	−3.65	−.05						
			−3.55	+.05						
	15	07 59	−3.60	±.050						
		a	−3.50	+.01						
			−3.52	−.01						
			−3.51	±.010						
		+.09	−3.56	±.030						

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1897phae.proj..4460

R. Canis Majoris. Phot. T.

Comp. Star = −15°,1774 (9.1)

April 8, 1895.

Gr.	M.	Time		Diff. Magn.	av. Dev.	Gr.	M.	Time		Diff. Magn.	av. Dev.	Gr.	M.	Time		Diff. Magn.	av. Dev.	Gr.
			f	−3.56	.00				f	−3.56	+.01				f	−3.53	+.03	
				−3.55	+.01					−3.58	−.01					−3.58	−.02	
12	24	18		−3.56	±.005	13	13	23		−3.57	±.010	13	58	41		−3.56	±.025	14
			a	−3.37	+.02				a	−3.37	.00				a	−3.40	.00	
				−3.41	−.02					−3.37	.00					−3.41	−.01	
				−3.39	±.020					−3.37	.000					−3.40	±.005	
			+.17	−3.48	±.012				+.20	−3.47	±.005				+.16	−3.48	±.015	
			a	−3.43	−.03				a	−3.38	−.02				a	−3.40	−.01	
				−3.38	+.02					−3.35	+.01					−3.38	+.01	
12	38	46		−3.40	±.025	13	26	45		−3.36	±.015	14	08	53		−3.39	±.010	14
			f	−3.48	+.04				f	−3.55	+.02				f	−3.59	−.02	
				−3.57	−.05					−3.59	−.02					−3.55	+.02	
				−3.52	±.045					−3.57	±.020					−3.57	±.020	
			+.12	−3.46	±.035				+.21	−3.46	±.018				+.18	−3.48	±.015	
			f	−3.55	−.01				f	−3.56	+.01				f	−3.50	+.01	
				−3.54	.00					−3.58	−.01					−3.52	−.01	
12	49	43		−3.54	±.005	13	38	38		−3.57	±.010	14	20	55		−3.51	±.010	15
			a	−3.46	−.02				a	−3.42	.00				a	−3.42	+.02	
				−3.43	+.01					−3.42	.00					−3.46	−.02	
				−3.44	±.015					−3.42	.000					−3.44	±.020	
			+.10	−3.49	±.010				+.15	−3.50	±.005				+.07	−3.48	±.015	
			a	−3.41	+.02				a	−3.46	−.02				a	−3.48	−.01	
				−3.45	−.02					−3.42	+.02					−3.46	+.01	
13	00	22		−3.43	±.020	13	48	09		−3.44	±.020	14	32	45		−3.47	±.010	
			f	−3.54	−.01				f	−3.58	.00				f	−3.57	−.01	
				−3.52	+.01					−3.59	−.01					−3.56	.00	
				−3.53	±.010					−3.58	±.005					−3.56	±.005	
			+.10	−3.48	±.015				+.14	−3.51	±.012				+.09	−3.52	±.008	

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R Canis Majoris. Phot. T.

Comp. Star. = −15° 1774 (9.1)

Dev	April 5, 1895. Gr. M. Time	Diff. Magn	av. Dev.	Jan. 21, 1899. Gr. M. Time	Diff. Magn	av. Dev.	Gr. M. Time	Diff. Magn	av. Dev.
03		f −3.56	+.02		a −3.47	+.15			
02		−3.59	−.01		−3.78	−.16			
025	14 45 37	−3.58	±.015	14 49 18.5	−3.62	±.15			
00		a −3.41	+.01		b −3.58	.00			
01		−3.42	.00		−3.59	−.01			
005		−3.42	±.005		−3.58	±.005			
015	+.16	−3.50	±.010		−3.60	±.08			
01		a −3.38	+.01		b −3.67	−.03			
01		−3.40	−.01		−3.62	+.02			
010	14 54 33	−3.39	±.010	14 57 7.5	−3.64	±.025			
02		f −3.63	+.01		a −3.59	−.03			
02		−3.64	.00		−3.53	+.03			
020		−3.64	±.005		−3.56	±.03			
015	+.25	−3.52	±.008		−3.60	±.027			
01		f −3.61	−.01		a −3.40	+.06			
01		−3.59	+.01		−3.52	−.06			
010	15 04 23	−3.60	±.010	15 05 11.5	−3.46	±.06			
02		a −3.58	−.04		b −3.57	+.03			
02		−3.50	+.04		−3.64	−.04			
020		−3.54	±.040		−3.60	±.035			
015	+.06	−3.57	±.025		−3.53	±.047			
01									
01									
010									
01									
00									
005									
008									

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Book 97. fr. 203.

R Canis Majoris. Phot. I

Comp. Star = −15° 1774 (9.1)

April 21, 1898.

Gr. M. Time.	Diff. Magn.	av. Dev.	Gr. M. Time	Diff. Magn.	av. Dev.	Gr. M. Time	Diff. Magn.	av. Dev.
f	−3.64	+.04	f	−3.40	+.02	b	−3.27	+.01
	−3.73	−.05		−3.45	−.03		−3.28	.00
12 25 53	−3.68	±.045	13 17 35	−3.42	±.025	13 59 19	−3.28	±.005
a	−3.28	+.06	a	−3.22	+.05	a	−3.07	−.03
	−3.40	−.06		−3.32	−.05		−3.02	+.02
	−3.34	±.060		−3.27	±.050		−3.04	±.025
+.34	−3.51	±.052	+.15	−3.34	±.038	+.24	−3.16	±.015
a	−3.30	+.02	a	−3.24	−.02	a	−2.96	−.06
	−3.32	−.01		−3.21	+.01		−2.84	+.06
12 40 42	−3.32	±.015	13 26 41	−3.22	±.015	14 15 16	−2.90	±.060
f	−3.67	−.02	f	−3.49	−.03	f	−3.11	−.05
	−3.63	+.02		−3.43	+.03		−3.02	+.04
	−3.65	±.020		−3.46	±.030		−3.06	±.045
+.33	−3.48	±.018	+.24	−3.34	±.022	+.16	−2.98	±.052
f	−3.52	+.02	f	−3.37	+.02	f	−2.96	.00
	−3.56	−.02		−3.41	−.02		−2.95	+.01
12 52 53	−3.54	±.020	13 37 37	−3.39	±.020	14 34 14	−2.96	±.005
a	−3.38	−.02	a	−3.34	−.02	a	−2.84	−.01
	−3.35	+.01		−3.29	+.03		−2.82	+.01
	−3.36	±.015		−3.32	±.025		−2.83	±.010
+.28	−3.45	±.018	+.07	−3.36	±.022	+.13	−2.90	±.008
a	−3.51	−.05	a	−3.28	−.04			
	−3.42	+.04		−3.20	+.04			
13 07 03	−3.46	±.045	13 48 05	−3.24	±.040			
f	−3.60	−.06	f	−3.31	−.01			
	−3.47	+.07		−3.28	+.02			
	−3.54	±.065		−3.30	±.015			
+.08	−3.50	±.055	+.06	−3.27	±.028			

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Continued From P. 62.

T. Andromadae. Phot. T.

Comparison Star = DM+26° = #40(75).

Date	Tabular Quantity	Diff Magn.	G.M.T.	Residuals	Julday	Book & Page	A
1898. 12. 29.	+3.31a +3.30 +3.34b +3.29	+3.31	14 36.9	.01 .00 .02 .03	4653	103-20	T.
1898. 12 29.	+3.28b +3.33 +3.25a +3.29	+3.28	14 45.5	.02 .03 .02 .02	"	" 21	T
1899 1. 12.	+4.00a +4.00 +4.22b +4.03	+4.06	13 14.4	.00 .00 .10 .09	4667	" 72	T
" " "	+3.95b +4.07 +3.91a +3.84	+3.94	13 20.0	.06 .06 .03 .04	"	" 73	T
" " 18	+4.25a +4.11 +4.15b +4.30	+4.20	13 57.9	.07 .07 .07 .06	4673	" 93	T
" " "	+4.31b +4.22 +4.26a +4.26	+4.26	14 7.5	.05 .04 .00 .00	"	" 96	T

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age.	Av Dev	H-B	Magn I. Androm	Mean		
0	±.025	-.02			Phot.	J.
1	±.022	+.03			"	J.
2	±.047	-.12			"	J.
3	±.047	-.13			"	J.
3	±.068	-.04			"	J.
0	±.022	.00			"	J.

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S Cancri. Phot. J

Tuesday, March 15, 1898.

Gr. M. Time		Diff. Magn.	Dev.	Gr. M. Time		Diff. Magn.	Dev.	Gr. M. Time		Diff. Magn.	Dev.	Gr.
	a	−0.67	−.06		a	−0.78	+.04		a	−1.08	−.02	
		−0.55	+.06			−0.86	−.04			−1.05	+.01	
15 32 52		−0.61	±.060	16 11 18		−0.82	±.040	17 10 16		−1.06	±.015	13
0.6478	b	−0.53	−.01	0.6745	b	−0.72	−.02	0.7155	b	−1.01	−.02	
−0.4107		−0.52	.00	−0.4107		−0.69	+.01	−0.4107		−0.97	+.02	
+0.2371		−0.52	±.005	+0.2638		−0.70	±.015	+0.3048		−0.99	±.020	
		−0.56	±.032			−0.76	±.028			−1.02	±.018	
−.09				−.12				−.07				
	b	−0.48	+.04		b	−0.81	−.06		b	−0.92	+.03	
		−0.55	−.03			−0.69	+.06			−0.98	−.03	
15 40 37		−0.52	±.035	16 22 11		−0.75	±.060	17 18 17		−0.95	±.030	13
0.6532	a	−0.56	±.00	0.6820	a	−0.87	−.01	0.7210	a	−1.13	−.01	
−0.4107		−0.55	+.01	−0.4107		−0.86	.00	−0.4107		−1.11	+.01	
+0.2425		−0.56	±.005	+0.2713		−0.86	±.005	+0.3103		−1.12	±.010	
		−0.54	±.020			−0.80	±.032			−1.04	±.020	
−.04				−.11				−.17				
	a	−0.62	+.04		a	−0.95	.00					
		−0.68	−.04			−0.95	.00					
15 54 44		−0.64	±.040	16 38 33		−0.95	.000					13
0.6630	b	−0.64	+.02	0.6935	b	−0.94	−.02					
−0.4107		−0.67	−.01	−0.4107		−0.91	+.01	June 9, 1898.				
+0.2523		−0.66	±.015	+0.2828		−0.92	±.015					
		−0.65	±.028			−0.94	±.008	Full Brightness.				
+.02				−.03								
	b	−0.79	−.03		b	−0.92	−.03		b	−1.25	−.04	
		−0.74	+.02			−0.86	+.03			−1.17	+.04	
16 02 50		−0.76	±.025	16 49 10		−0.89	±.030	13 44 13		−1.21	±.040	13
0.6687	a	−0.70	+.04	0.7008	a	−0.95	.00		a	−1.25	−.01	
−0.4107		−0.79	−.05	−0.4107		−0.95	.00			−1.23	+.01	
+0.2580		−0.74	±.045	+0.2961		−0.95	.000			−1.24	±.010	
		−0.75	±.035			−0.92	±.015			−1.22	±.015	
+.02				−.06				−.03				

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1897phae.proj..4460

S Antliae — Phot. T.

Comp. Star = Cordoba Δ m. −2d 7347 (A7)

April 1, 1898.

Gr. M. Time	Diff. Magn	av. Dev.	Gr. M. Time	Diff. Magn	av. Dev.	Gr. M. Time	Diff. Magn	av. Dev.
a	−2.00	−.01	a	−1.87	−.07	a	−1.81	+.03
	−1.98	+.01		−1.72	+.08		−1.88	−.04
13 18 57	−1.99	±.010	13 59 34	−1.80	±.075	14 34 04	−1.84	±.035
b	−1.73	+.05	b	−1.62	+.03	b	−1.61	+.02
	−1.84	−.06		−1.68	−.03		−1.65	−.02
	−1.78	±.055		−1.65	±.030		−1.63	±.020
−.21	−1.88	±.032	−.15	−1.72	±.052	−.21	−1.74	±.028
b	−1.75	.00	b	−1.66	+.03	b	−1.67	.00
	−1.75	.00		−1.72	−.03		−1.67	.00
13 29 25	−1.75	.000	14 06 40	−1.69	±.030	14 40 58	−1.67	.000
a	−1.91	−.01	a	−1.76	.00	a	−1.75	−.01
	−1.90	.00		−1.76	.00		−1.74	.00
	−1.90	±.005		−1.76	.000		−1.74	±.005
−.15	−1.82	±.002	−.07	−1.72	±.015	−.07	−1.70	±.002
a	−1.89	+.02	a	−1.74	+.01			
	−1.93	−.02		−1.76	−.01			
13 40 51	−1.91	±.020	14 16 15	−1.75	±.010			
b	−1.77	+.01	b	−1.68	.00			
	−1.80	−.02		−1.69	−.01			
	−1.78	±.015		−1.68	±.005			
−.13	−1.84	±.018	−.07	−1.72	±.008			
b	−1.68	+.01	b	−1.66	+.04			
	−1.70	−.01		−1.73	−.03			
13 51 52	−1.69	±.010	14 27 03	−1.70	±.035			
a	−1.85	+.01	a	−1.82	−.03			
	−1.87	−.01		−1.76	+.03			
	−1.86	±.010		−1.79	±.030			
−.17	−1.78	±.010	−.09	−1.74	±.032			

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1897phae.proj..4460

β Lyrae. Phot. V.

Comp. Star = DM +33° 3224 (8.5)

April 8, 1895.

Gr. M. Time		Diff. Magn.	Av. Dev.
	b	-3.50	.00
		-3.51	-.01
15 44 16		-3.50	±.005
	a	-3.59	-.04
		-3.57	+.04
		-3.55	±.040
	-.05	-3.52	±.022
	a	-3.53	+.01
		-3.55	-.01
15 57 16		-3.54	±.010
	b	-3.51	-.03
		-3.44	+.04
		-3.48	±.035
	-.06	-3.51	±.022
	b	-3.48	.00
		-3.49	-.01
16 08 21		-3.48	±.005
	a	-3.55	-.03
		-3.52	+.03
		-3.55	±.030
	-.07	-3.52	±.017

April 9, 1895.

Gr. M. Time		Diff. Magn.	Av. Dev.
	a	-3.37	+.01
		-3.39	-.01
15 40 03		-3.38	±.010
	b	-3.42	.00
		-3.43	-.01
		-3.42	±.005
	+.04	-3.40	±.008
	b	-3.37	-.01
		-3.36	.00
15 56 08		-3.36	±.005
	a	-3.37	.00
		-3.37	.00
		-3.37	.000
	-.01	-3.36	±.002
	a	-3.33	+.05
		-3.42	-.04
16 10 18		-3.38	±.045
	b	-3.38	.00
		-3.39	-.01
		-3.38	±.005
	.00	-3.38	±.025

April 21, 1895.

Gr. M. Time		Diff. Magn.	Av. Dev.	Gr.
	b	-3.445	+.01	
		-3.447	-.01	
15 39 09		-3.446	±.010	15
	a	-3.448	-.02	
		-3.443	+.03	
		-3.446	±.025	
	.00	-3.446	±.018	
	a	-3.352	-.01	
		-3.350	+.01	
15 46 13		-3.351	±.010	15
	b	-3.341	+.09	
		-3.360	-.10	
		-3.350	±.095	
	-.01	-3.350	±.052	
	b	-3.360	-.01	
		-3.358	+.01	
15 59 53		-3.359	±.010	16
	a	-3.341	-.01	
		-3.338	+.02	
		-3.340	±.015	
	+.19	-3.350	±.012	

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β Lyrae. Phot. M.

April 15, 1895.

Dev.	Gr. M. Time.		Diff Magn.	Av Dev.
.01		b	-3.92	.00
01			-3.92	.00
.010	15	49 41	-3.92	.000
.02		a	-3.89	-.03
03			-3.84	+.02
025			-3.86	±.025
018		+.06	-3.89	±.012
01		a	-3.92	+.02
.01			-3.96	-.02
.010	15	59 51	-3.94	±.020
09		b	-3.99	-.02
10			-3.95	+.02
095			-3.97	±.020
052		+.03	-3.96	±.020
.01		b	-3.99	+.01
01			-4.01	-.01
010	16	10 28	-4.00	±.010
01		a	-3.90	-.01
02			-3.88	+.01
015			-3.89	±.010
012		+.11	-3.94	±.010

April 26, 1895.

Gr. M. Time.			Diff Magn.	Av Dev.
		a	-3.79	-.05
			-3.69	+.05
15	31	59	-3.74	±.050
		b	-3.82	+.02
			-3.86	-.02
			-3.84	±.020
		+.10	-3.79	±.035
		b	-3.82	-.02
			-3.77	+.03
15	40	27	-3.80	±.025
		a	-3.82	.00
			-3.81	+.01
			-3.82	±.005
		-.02	-3.81	±.015
		a	-3.79	.00
			-3.79	.00
15	48	43	-3.79	.000
		b	-3.80	-.02
			-3.77	+.01
			-3.78	±.015
		-.01	-3.78	±.008
		b	-3.80	.00
			-3.81	-.01
16	01	01	-3.80	±.005
		a	-3.71	+.03
			-3.76	-.02
			-3.74	±.025
		+.06	-3.77	±.015

Gr. M. Time			Diff Magn.	Av Dev.
		a	-3.70	+.02
			-3.74	-.02
16	08	49	-3.72	±.020
		b	-3.79	-.03
			-3.72	+.04
			-3.76	±.035
		+.04	-3.74	±.028
		b	-3.75	+.03
			-3.82	-.04
11	16	05	-3.78	±.035
		a	-3.81	-.01
			-3.78	+.02
			-3.80	±.015
		-.02	-3.79	±.025

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1897phae.proj..4460

β Lyrae. Phot. M.

May 7, 1898.

Gr. M. Time.		Diff Magn.	av. Dev.
	b	-3.88	-.02
		-3.85	+.01
15 05 28		-3.86	±.015
	a	-3.70	+.06
		-3.81	-.05
		-3.76	±.055
		+.10	-3.81 ±.035
	a	-3.71	+.02
		-3.75	-.02
15 15 22		-3.73	±.020
	b	-3.88	.00
		-3.88	.00
		-3.88	.000
		+.15	-3.80 ±.010
	b	-3.77	+.03
		-3.84	-.04
15 28 04		-3.80	±.035
	a	-3.74	-.02
		-3.69	+.03
		-3.72	±.025
		+.08	-3.76 ±.030
	a	-3.68	-.02
		-3.65	+.01
15 39 28		-3.66	±.015
	b	-3.96	-.02
		-3.93	+.01
		-3.94	±.015
		+.28	-3.80 ±.015

Gr. M. Time.		Diff Magn	av. Dev
	b	-3.97	-.05
		-3.87	+.05
15 49 19		-3.92	±.050
	a	-3.70	.00
		-3.70	.00
		-3.70	.000
		+.22	-3.81 ±.025

May 10, 1898.

Gr. M. Time.		Diff Magn	av. Dev
	b	-3.42	+.02
		-3.45	-.01
14 22 50		-3.44	±.015
	a	-3.46	-.07
		-3.32	+.07
		-3.39	±.07
		+.05	-3.42 ±.04
	a	-3.35	-.01
		-3.34	.00
14 33 46		-3.34	.00
	b	-3.49	-.01
		-3.46	.02
		+.14	-3.48 ±.015
			-3.41 .00

May 10, 1898.

Gr. M. Time.		Diff Magn.	av. Dev.
	b	-3.50	-.04
		-3.41	+.05
14 45 30		-3.46	±.045
	a	-3.34	00
		-3.33	+.01
		-3.34	00
		+.13	-3.40 ±.02

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S Antliae. Phot. I.

Comp. Star = Cordoba Dm. −24° 7347 (a7)

April 26, 1895.

Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.
	a	−2.07	−.06		a	−1.88	−.04				
		−1.95	+.06			−1.79	+.05				
12 47 34		−2.01	±.060	13 25 18		−1.84	±.045				
	b	−1.72	+.02		b	−1.59	−.03				
		−1.75	−.01			−1.54	+.02				
		−1.74	±.015			−1.56	±.025				
	−.27	−1.88	±.038		−.28	−1.70	±.035				
	b	−1.66	+.04		b	−1.55	−.01				
		−1.73	−.03			−1.53	+.01				
12 55 10		−1.70	±.035	13 41 51		−1.54	±.010				
	a	−1.86	.00		a	−1.73	−.02				
		−1.87	−.01			−1.69	+.02				
		−1.86	±.005			−1.71	±.020				
	−.16	−1.78	±.020		−.17	−1.62	±.015				
	a	−1.85	+.01		a	−1.79	−.01				
		−1.88	−.02			−1.76	+.02				
13 04 48		−1.86	±.015	14 00 27		−1.78	±.015				
	b	−1.75	−.07		b	−1.60	−.03				
		−1.62	+.06			−1.54	+.03				
		−1.68	±.065			−1.57	±.030				
	−.18	−1.77	±.040		−.21	−1.68	±.022				
	b	−1.54	+.08								
		−1.70	−.08								
13 14 01		−1.62	±.080								
	a	−1.77	+.05								
		−1.88	−.06								
		−1.82	±.055								
	−.20	−1.72	±.065								

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1895. page 19.

S Cancri. Phot. T.

May 1, 1895.

Gr. M. Time.		Diff. Magn.	av. Dev.
	a	-1.31	-.02
		-1.27	+.02
12 52 02		-1.29	±.020
0.5361	b	-1.15	+.01
		-1.16	.00
		-1.16	±.005
	-.13	-1.22	±.012
	b	-1.10	+.04
		-1.18	-.04
13 01 33		-1.14	±.040
0.5428	a	-1.20	+.03
		-1.26	-.03
		-1.23	±.030
	-.09	-1.18	±.035
	a	-1.17	-.01
		-1.15	+.01
13 16 33		-1.16	±.010
0.5532	b	-1.03	+.01
		-1.06	-.02
		-1.04	±.015
	-.12	-1.10	±.012
	b	-0.98	-.02
		-0.95	+.01
13 24 19		-0.96	±.015
0.5585	a	-1.13	+.03
		-1.20	-.04
		-1.16	±.035
	-.20	-1.06	±.025

Gr. M. Time.		Diff. Magn.	av. Dev.
	a	-1.13	+.01
		-1.14	.00
13 33 35		-1.14	±.005
0.5650	b	-0.90	+.02
		-0.95	-.03
		-0.92	±.025
	-.22	-1.03	±.015
	b	-0.91	+.01
		-0.92	.00
13 43 22		-0.92	±.005
0.5718	a	-1.02	.00
		-1.02	.00
		-1.02	.000
	-.10	-0.97	±.002
	a	-1.02	.00
		-1.02	.00
13 53 42		-1.02	.000
0.5790	b	-0.89	+.01
		-0.92	-.02
		-0.90	±.015
	-.12	-0.96	±.008
	b	-0.85	+.01
		-0.88	-.02
14 04 20		-0.86	±.015
0.5863	a	-1.01	-.02
		-0.97	+.02
		-0.99	±.020
	-.13	-0.92	±.018

Gr. M. Time.		Diff. Magn.	av. Dev.	Gr.
	a	-0.90	+.03	
		-0.96	-.03	
14 19 00		-0.93	±.030	12
0.5965	b	-0.79	+.02	
		-0.83	-.02	
		-0.81	±.020	
	-.12	-0.87	±.025	
	b	-0.76	.00	
		-0.77	-.01	
14 29 15		-0.76	±.005	13
0.6036	a	-0.87	-.06	
		-0.75	+.06	
		-0.81	±.060	
	-.05	-0.78	±.032	
	a	-0.74	+.02	
		-0.77	-.01	
14 47 06		-0.76	±.015	13
0.6161	b	-0.57	+.03	
		-0.62	-.02	
		-0.60	±.025	
	-.16	-0.68	±.020	
	b	-0.63	-.02	
		-0.59	+.02	
14 58 44		-0.61	±.020	13
0.6242	a	-0.73	+.01	
		-0.76	-.02	
		-0.74	±.015	
	-.13	-0.68	±.018	

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S Anthiae. Phot. T.

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May 7, 1898. May 9, 1898.

ev	Gr. M. Time.		Diff Magn.	av. Dev.	Gr. M. Time	Diff Magn.	av. Dev.	Gr. M. Time	Diff Magn.	av. Dev.
13		a	-2.15	.00		d -1.88	+.03	a	-1.69	+.02
03			-2.15	.00		-1.94	-.03		-1.73	-.02
30	12	54 23	-2.15	.000	13 35 30	-1.91	±.030	13 17 41	-1.71	±.020
02		b	-1.78	+.01	b	-1.74	-.06	b	-1.47	+.01
02			-1.80	-.01	*	-1.63	+.05		-1.49	-.01
20			-1.79	±.010		-1.68	±.055		-1.48	±.010
25		-.36	-1.97	±.005	-.23	-1.80	±.042	-.23	-1.60	±.015
0		b	-1.79	+.04	b	-1.67	+.01	b	-1.55	+.07
1			-1.87	-.04		-1.70	-.02		-1.69	-.07
05	13	05 30	-1.83	±.040	13 45 30	-1.68	±.015	13 27 48	-1.62	±.070
6		a	-1.94	.00	a	-1.80	-.02	a	-1.74	+.02
6			-1.95	-.01		-1.75	+.03		-1.79	-.03
60			-1.94	±.005		-1.78	±.025		-1.76	±.025
32		-.11	-1.88	±.022	-.10	-1.73	±.020	-.14	-1.69	±.048
02		a	-1.86	+.01	a	-1.74	.00	a	-1.79	+.01
01			-1.88	-.01		-1.73	+.01		-1.80	.00
015	13	17 42	-1.87	±.010	13 55 45	-1.74	±.005	13 36 01	-1.80	±.005
03		b	-1.75	+.02	b	-1.55	+.05	b	-1.62	+.04
2			-1.79	-.02		-1.65	-.05		-1.71	-.05
25			-1.77	±.020		-1.60	±.050		-1.66	±.045
020		-.10	-1.82	±.015	-.14	-1.67	±.028	-.14	-1.73	±.025
02		b	-1.73	.00	b	-1.92	-.08	b	-1.76	-.02
2			-1.73	.00		-1.75	+.09		-1.73	+.01
20	13	26 30	-1.73	.000	14 08 57	-1.84	±.085	13 55 41	-1.74	±.015
01		a	-1.88	+.02	a	-1.80	-.04	a	-1.80	+.06
2			-1.92	-.02		-1.73	+.03		-1.92	-.06
015			-1.90	±.020		-1.76	±.035		-1.86	±.060
18		-.17	-1.82	±.010	+.08	[-1.80]	±.060	-.12	-1.80	±.038

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1897phae.proj...4460

Y Aquilae. Phot. L.

Comp. Star = DM +10° 3754. (8.5)

May 9, 1898.

Gr. M. Time		Diff. Magn.	Av. Dev.
	b	-3.77	-.03
		-3.70	+.04
15 17 28		-3.74	±.035
	a	-3.445	+.03
		-3.52	-.04
		-3.48	±.035
	+.26	-3.61	±.035
	a	-3.53	-.02
		-3.49	+.02
15 25 28		-3.51	±.020
	b	-3.76	-.01
		-3.74	+.01
		-3.75	±.010
	+.24	-3.63	±.015
	b	-3.71	+.03
		-3.76	-.02
15 34 03		-3.74	±.025
	a	-3.53	+.03
		-3.60	-.04
		-3.56	±.035
	+.18	-3.65	±.030
	a	-3.55	-.01
		-3.53	+.01
15 43 36		-3.54	±.010
	b	-3.77	+.01
		-3.79	-.01
		-3.78	±.010
	+.24	-3.66	±.010

Gr. M. Time		Diff. Magn.	Av. Dev.
	b	-3.73	-.01
		-3.71	+.01
15 52 03		-3.72	±.010
	a	-3.446	-.01
		-3.44	+.01
		-3.445	±.010
	+.27	-3.58	±.010

May 10, 1898.

	b	-3.77	+.04
		-3.85	-.04
15 27 59		-3.81	±.04
	a	-3.59	+.01
		-3.62	-.02
		-3.60	±.015
	+.21	-3.70	±.027
	a	-3.55	-.01
		-3.54	.00
15 34 32		-3.54	.00
	b	-3.70	.00
		-3.70	.00
		-3.70	.00
	+.16	-3.62	.00

May 10, 1898.

Gr. M. Time		Diff. Magn.	Av. Dev.	Gr
	b	-3.71	-.01	
		-3.69	+.01	
15 42 22		-3.70	±.01	16
	a	-3.47	+.04	
		-3.55	-.04	
		-3.51	±.04	
	+.19	-3.60	±.025	
	a	-3.58	-.03	
		-3.52	+.03	
15 50 5		-3.55	±.03	16
	b	-3.72	+.04	
		-3.79	-.03	
		-3.76	±.035	
	+.21	-3.66	±.03	
	b	-3.74	00	
		-3.74	00	
15 58 48		-3.74	00	16
	a	-3.50	+.04	
		-3.58	-.04	
		-3.54	±.04	
	+.20	-3.64	±.02	

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1997phae..proj..4460

Y Aquilae. Phot. T.

Comp. Star = DM +10° 3754 (A.5)

Dev.	Gr. M. Time.	Diff. Magn.	av. Dev.
	May 13, 1898.		
.01		f -3.75	+.01
.01		-3.78	-.02
.01	16 07 45	-3.76	±.015
.04		a -3.67	-.05
.04		-3.58	+.04
.04		-3.62	±.045
.025	+.14	-3.69	±.030
.03		a -3.55	.00
.03		-3.55	.00
.03	16 14 29	-3.55	.000
.04		f -3.68	+.05
.03		-3.78	-.05
.035		-3.73	±.050
.03	+.18	-3.64	±.025
.10		f -3.74	-.03
.10		-3.68	+.03
.10	16 21 55	-3.71	±.030
.04		a -3.60	.00
.04		-3.60	.00
.04		-3.60	.000
.02	+.11	-3.66	±.015
		a -3.58	+.03
		-3.64	-.03
	16 29 18	-3.61	±.030
		f -3.74	+.02
		-3.74	-.01
		-3.76	±.015
	+.15	-3.68	±.022

Gr. M. Time	Diff. Magn.	av. Dev.
May 13, 1898.		
	f -3.77	-.01
	-3.76	.00
16 36 32	-3.76	±.005
	a -3.53	-.03
	-3.46	+.04
	-3.50	±.035
+.26	-3.63	±.020
May 14, 1898.		
	f -3.75	-.01
	-3.72	+.02
15 49 26	-3.74	±.015
	a -3.62	-.02
	-3.59	+.01
	-3.60	±.015
+.14	-3.67	±.015
	a -3.57	+.01
	-3.60	-.02
15 57 21	-3.58	±.015
	f -3.68	+.01
	-3.70	-.01
	-3.69	±.010
+.11	-3.64	±.012

Gr. M. Time	Diff. Magn.	av. Dev.
May 14, 1898.		
	f -3.80	-.04
	-3.71	+.05
16 06 33	-3.76	±.046
	a -3.56	-.01
	-3.54	+.01
	-3.55	±.010
+.21	-3.66	±.028
	a -3.54	.00
	-3.55	-.01
16 13 43	-3.54	±.005
	f -3.76	.00
	-3.77	-.01
	-3.76	±.005
+.22	-3.65	±.005
	f -3.74	+.02
	-3.79	-.03
16 22 08	-3.76	±.025
	a -3.62	-.02
	-3.57	+.03
	-3.60	±.025
+.16	-3.68	±.025

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R 98 page 63

S Antliae.

May 10, 1898.

Gr. M. Time		Diff. Magn.	av. Dev.	Gr. M. Time		Diff. Magn.	av. Dev.	Gr. M. Time		Diff. Magn.	av. Dev.
	a	-1.84	-.04		a	-1.97	+.02				
		-1.77	+.03			-2.01	-.02				
13 3 12		-1.80	±.035	13 39 44		-1.99	±.02				
	b	-1.60	+.02		b	-1.90	+.06				
		-1.63	-.01			-2.03	-.07				
		-1.62	±.015			-1.96	±.06				
	-.18	-1.71	±.02		-.03	-1.98	±.04				
	b	-1.66	+.03		b	-1.82	+.04				
		-1.72	-.03			-1.90	-.04				
13 11 8		-1.69	±.03	13 50 84		-1.86	±.04				
	a	-1.77	+.01		a	-1.94	.00				
		-1.78	.00			-1.94	.00				
		-1.78	00			-1.94	.00				
	-.09	-1.74	±.02		-.08	-1.90	±.02				
	a	-1.83	+.01								
		-1.84	.00								
13 22 32		-1.84	.00								
	b	-1.83	-.03								
		-1.78	+.02								
		-1.80	±.025								
	-.04	-1.82	±.01								
	b	-1.77	+.03								
		-1.82	-.02								
13 31 49		-1.80	±.025								
	a	-2.07	-.02								
		-2.03	+.02								
	-.25	-2.05	±.02								
		-1.92	±.02								

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β Lyrae. Phot. N.

Comp. Star = DM. +33° 3224 (8.5)

May 13, 1898. Gr. M. Time	Diff. Magn.	av. Dev.	May 14, 1898. Gr. M. Time	Diff. Magn.	av. Dev.	May 21, 1898. Gr. M. Time	Diff. Magn.	av. Dev.
	b -3.88	-.04		b -3.85	+.01		a -3.78	+.02
	-3.79	+.05		-3.86	.00		-3.82	-.02
14 58 09	-3.84	±.045	14 58 07	-3.86	±.005	14 17 37	-3.80	±.020
	a -3.74	-.05		a -3.84	-.04		b -3.85	-.05
	-3.64	+.05		-3.77	+.03		-3.76	+.04
	-3.69	±.050		-3.80	±.035		-3.80	±.045
	+.15 -3.76	±.048		+.06 -3.83	±.020		.00 -3.80	±.032
	b -3.80	.00		a -3.76	+.02		b -3.85	-.01
	-3.80	.00		-3.81	-.03		-3.82	+.02
15 22 22	-3.80	.000	15 06 00	-3.78	±.025	14 25 52	-3.84	±.015
	a -3.70	.00		b -3.76	+.04		a -3.80	-.03
	-3.70	.00		-3.85	-.05		-3.74	+.03
	-3.70	.000		-3.80	±.045		-3.77	±.030
	+.10 -3.75	.000		+.02 -3.79	±.035		+.07 -3.80	±.022
	a -3.76	-.07		b -3.77	+.01		a -3.79	.00
	-3.62	+.07		-3.80	-.02		-3.79	.00
15 45 05	-3.69	±.070	15 13 30	-3.78	±.015	14 34 31	-3.79	.000
	b -3.84	-.04		a -3.80	.00		b -3.79	+.07
	-3.75	+.05		-3.79	+.01		-3.92	-.06
	-3.80	±.045		-3.80	±.005		-3.86	±.065
	+.11 -3.74	±.058		-.02 -3.79	±.010		+.07 -3.82	±.032
			May 17, 1898.					
				b -3.56	-.04			
				-3.48	+.04			
			15 11 10	-3.52	±.040			
				a -3.33	+.03			
				-3.40	-.04			
				-3.36	±.035			
				+.16 -3.44	±.038			

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β Lyrae. Phot. H.

Comp. Star = DM. +33° 3224 (8.5)

May 21, 1898

Gr. M. Time		Diff Magn.	Av. Dev.
	a	-3.78	+.02
		-.382	-.02
14 17 37		-3.80	±.02
	b	-3.86	-.05
		-3.76	+.04
		-3.80	±.045
	.00	-3.80	±.032
	b	-3.85	-.01
		-3.82	+.02
14 25 52		-3.84	±.015
	a	-3.80	-.03
		-3.74	+.03
		-3.77	±.03
	+.07	-3.80	±.022
	a	-3.79	.00
		-3.79	.00
14 34 31		-3.79	.00
	b	-3.79	+.07
		-3.92	-.06
		-3.86	±.065
	+.07	-3.82	±.032

See page 1

June 7, 1898

Gr. M. Time		Diff Magn.	Av. Dev.
	a	-3.41	+.09
		-3.60	-.10
13 46 40		-3.50	±.095
	b	-3.46	+.02
		-3.50	-.02
		-3.48	±.02
	-.02	-3.49	±.058
	b	-3.46	+.02
		-3.49	-.01
14 6 20		-3.48	±.015
	a	-3.63	-.02
		-3.59	+.02
		-3.61	±.02
	-.13	-3.54	±.018
	a	-3.61	-.01
		-3.58	+.02
14 14 52		-3.60	±.015
	b	-3.49	+.01
		-3.52	-.02
		-3.50	±.015
	-.10	-3.55	±.015

June 9, 1898.

Gr. M. Time		Diff Magn.	Av. Dev.
	b	-3.81	+.01
		-3.83	-.01
15 01 16		-3.82	±.010
	a	-3.81	-.01
		-3.78	+.02
		-3.82	-.02
		-3.80	±.017
	+.02	-3.81	±.014
	a	-3.84	-.03
		-3.81	+.03
15 11 46		-3.84	±.030
	b	-3.82	-.02
		-3.79	+.01
		-3.80	±.015
	-.04	-3.82	±.022

June 14, 1898

Gr. M. Time		Diff Magn.	Av. Dev.
	b	3.63	-.01
		3.62	.00
13 30 12		3.62	±.005
	a	3.70	-.05
		3.65	+.05
		3.70	±.05
	-.05	3.66	±.028

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β Lyrae. Phot. N.

Comp. Star = DM +33°3224 (8.5)

Dev.	June 11, 1898. Gr. M. Time	Diff. Magn.	av. Dev.	June 14, 1898. Gr. M. Time	Diff. Magn.	av. Dev.	June 17, 1898. Gr. M. Time	Diff. Magn.	av. Dev.
.01	a	3.78	−.01	a	−3.77	−.04	f	−3.73	−.03
.01		3.76	+.01		−3.69	+.04		−3.68	+.02
.010	13 38 03	3.77	±.01	13 21 12	−3.73	±.040	13 36 27	−3.70	±.025
.01									
.02	b	3.67	−.04	f	−3.73	−.05	a	−3.57	+.03
.03		3.59	+.04		−3.63	+.05		−3.62	−.02
.017		3.63	±.04		−3.68	±.050		−3.60	±.025
.014	−.14	3.70	±.025	−.05	−3.70	±.045	+.10	−3.65	±.025
.03	b	3.60	.00	f	−3.61	+.01	a	−3.69	−.03
.03		3.59	+.01		−3.62	.00		−3.63	+.03
.030	13 50 03	3.60	±.005	13 29 34	−3.62	±.005	13 45 40	−3.66	±.030
.02	a	3.70	−.01	a	−3.75	+.02	f	−3.78	.00
.01		3.68	+.01		−3.79	−.02		−3.79	−.01
.015		3.69	±.01		−3.77	±.020		−3.78	±.005
.027	−.09	3.65	±.008	−.15	−3.70	±.017	+.12	−3.72	±.018
				a	−3.71	+.01	f	−3.87	−.03
					−3.74	−.02		−3.80	+.04
				13 37 17	−3.72	±.015	13 54 01	−3.84	±.035
				f	−3.61	−.03	a	−3.70	−.05
					−3.56	+.02		−3.60	+.05
					−3.58	±.025		−3.65	±.050
				−.14	−3.65	±.020	+.19	−3.74	±.042
.01									
.00									
.005									
.05									
.05									
.05									
.028									

β Lyrae
June 22, 1898 on
page 182.
June 23, 1898 on
page 180

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γ Aquilae. Phot. F.

Comp. Star = D M. +10° 3754.

May 21, 1898.

Gr. M. Time.		Diff Magn.	Av. Dev.
	f	-3.75	+.01
		-3.77	-.01
15 05 17		-3.76	±.010
	a	-3.68	.00
		-3.68	.00
		-3.68	.000
	+.08	-3.72	.005
	a	-3.68	-.06
		-3.56	+.06
15 13 15		-3.62	±.060
	f	-3.79	-.05
		-3.68	+.06
		-3.74	±.053
	+.12	-3.68	±.058
	f	-3.69	-.01
		-3.68	.00
15 21 00		-3.68	±.005
	a	-3.52	.00
		-3.51	+.01
		-3.52	±.005
	+.16	-3.60	±.005
	a	-3.58	.00
		-3.59	-.01
15 29 33		-3.58	±.005
	f	-3.69	+.03
		-3.75	-.03
		-3.72	±.030
	+.14	-3.65	±.018

Gr. M. Time.		Diff Magn.	Av. Dev.
	f	-3.72	+.01
		-3.74	-.01
15 38 45		-3.73	±.010
	a	-3.61	-.03
		-3.56	+.02
		-3.58	±.025
	+.15	-3.66	±.018
1[illegible]			

May 22, 1898.

Gr. M. Time.		Diff Magn.	Av. Dev.
	f	-3.75	+.01
		-3.77	-.01
17 58 40		-3.76	±.010
	a	-3.47	+.01
		-3.50	-.02
		-3.48	±.015
	+.28	-3.62	±.012

May 22, 1898.

Gr. M. Time.		Diff Magn.	Av. Dev.
	a	-3.54	-.04
		-3.45	+.05
18 07 39		-3.50	±.045
	f	-3.65	+.05
		-3.75	-.05
		-3.70	±.050
	+.20	-3.60	±.048
	f	-3.77	-.01
		-3.75	+.01
18 16 01		-3.76	±.010
	a	-3.47	+.01
		-3.50	-.02
		-3.48	±.015
	+.28	-3.62	±.012
	a	-3.63	-.01
		-3.62	.00
18 25 18		-3.62	±.005
	f	-3.72	-.07
		-3.58	+.07
		-3.65	±.07
	+.03	-3.64	±.040
	f	-3.68	.00
		-3.68	.00
18 46 01		-3.68	.000
	a	-3.65	-.05
		-3.55	+.05
		-3.60	±.050
	+.08	-3.64	±.020

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Dec.
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Con. from Page 32.

Measurements of Iapetus Phot. T.

1898.

Date			Tabular Quantity				Diff. Magn.	Gr. M. Time.		Residuals.				J.D.	Bk. and Page	
			a		b									241		
1898.	5.	21.	+0.55	+0.53'	+0.63	+0.83'	+0.64'	16	23.5'	.01	.01'	.10	.10'	4431	98	130
"	"	"	b +0.66	+0.80'	a +0.60	+0.48'	+0.64'	16	35.5'	.07	.07'	.06	.06'	"	"	131
"	6	14	-2.29	-2.36	-2.01	-2.09	-2.18	16	33.3	.03	.04	.04	.04	4455	"	180
"	"	"	-2.01	-2.05	-2.30	-2.28	-2.16	16	41.8	.02	.02	.01	.01	"	"	"
"	"	15	-2.28	-2.27	-1.99	-2.10	-2.16	16	32.6	.00	.01	.05	.06	4456	"	197
"	"	"	-2.07	-2.10	-2.15	-2.11	-2.10	16	40.6	.01	.02	.02	.02	"	"	198
"	"	21	+0.38	+0.50	+0.04	+0.01	+0.23	16	53.2	.06	.06	.02	.01	4462	"	224
"	"	"	+0.00	-0.03	+0.47	+0.44	+0.22	17	31.7	.00	.01	.01	.02	4462	"	225
"	"	22	+0.04	+0.09	+0.41									4463	99	10
"	7	6	+1.61	+1.67	+1.81	+1.85	+1.74	16	8.7	.03	.03	.02	.02	4477	99	109
"	"	"	+1.87	+1.88	+1.58	+1.57	+1.73	16	17.2	.01	.00	.00	.01	"	"	110
"	"	"	+4.15	+4.09	+4.58	+4.64	+4.36	16	33.2	.03	.03	.03	.03	"	"	111
"	"	"	+4.60	+4.56	+4.30	+4.26	+4.43	16	41.7	.02	.02	.02	.03	"	"	112
"	6	30	+4.35	+4.08	+4.47	+4.62	+4.38	16	06.5	.13	.14	.07	.08	4471	99	55
"	"	"	+4.40	+4.49	+4.16	+4.15	+4.30	16	14.5	.04	.05	.00	.01	"	"	56
"	6	27	+1.48	+1.48	+1.71	+1.64	+1.58'	16	14.0	.00	.00	.03	.04	4463	99	8
"	"	"	+1.69	+1.62	+1.38	+1.35	+1.51	16	19.5	.03	.04	.02	.01	"	"	9
"	7	15	+1.80	+1.80	+1.39	+1.48	+1.62	15	56.7	.00	.00	.05	.04	4486	99	169
"	"	"	+1.50	+1.47	+1.51	+1.73	+1.62	16	6.7	.02	.01	.04	.04	"	"	170
"	"	16	+1.54	+1.56	+1.51	+1.53	+1.68	16	24.8	.01	.01	.01	.01	4487	99	182
"	"	"	+1.46	+1.50	+1.92	+1.89	+1.69	16	33.3	.02	.02	.02	.01	"	"	183
"	"	22	+1.95	+1.95	+2.12	+2.05	+2.02	16	49.6	.00	.00	.04	.03	4493	"	199
"	"	"	+1.97	+2.02	+1.90	+1.90	+1.90	16	57.6	.03	.02	.00	.00	"	"	200
	7	20					+1.78	16	24.6	.07	.07	.02	.03	4491		
	9	"					+1.64	16	33.6	.01	.01	.02	.01	"		

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Page		A-B	Comparison Star.	Magn Comp. Star	Magn Iapetus	Mean Iapetus
30		-.19	SD. -19° 4399 (9.4)			
31		-.19	" " " "			
80		-.27	SD. -19° 4375 (8.8)			
"		-.26	" " " "			
97		-.24	SD. -19° 4375 (8.8)			
98		-.05	" " " "			
224		+.42	SD -19° 4374 (9.8)			
225		+.48	" " " "			
10						
109		+.19	SD. -19° 4368 (8.5)			
110		+.30	" " " "			
111		+.49	-19° 4368 Compare with -19° 4365			
112		-.30	" " " " " "			
55		-.32	" " " " " "			
56		-.28	" " " " " "			
8		+.20				
9		+.30	" "			
169		+.36	SD. -19° 4364 (8.5)			
170		+.29	" " " "			
182		+.33	SD. -19° 4368 (8.5)			
183		+.42	" " " "			
199		-.13	SD -19° 4362 (8.6)			
200		-.10	" " " "			
		+.49	SD -19 4368 (8.5)			
		+.40	" " " "			

Not Iapetus itself but comp. stars ?

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Measurements of Iapetus. Phot. T.

1898.

Date.	Tabular Quantity.	Diff Magn	Gr. M. Time.	Residuals	J.D.	Bk and Pag

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Page	A-B	Comparison Star.	Magn. of Comp. Star	Magn. Sapeteu	Mean Sapeteu

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β Lyrae — Phot. H.

Comp. Star = 33°3224 (55)

Gr.	M.	Time.	Diff. Magn.	Av. Dev.
June 23, 1898.				
		a	-4.03	+.01
			-4.05	-.01
13	21	54	-4.04	±.010
		b	-3.71	-.05
			-3.61	+.05
			-3.66	±.050
		-.38	-3.85	±.030
		b	-3.81	-.08
			-3.65	+.08
13	32	10	-3.73	±.080
		a	-3.83	-.02
			-3.79	+.02
			-3.81	±.020
		-.08	-3.77	±.050
		a	-3.82	+.06
			-3.94	-.06
13	41	46	-3.88	±.060
		b	-3.74	.00
			-3.73	+.01
			-3.74	±.010
		-.12	-3.81	±.035
		b	-3.86	-.06
			-3.74	+.06
13	48	13	-3.80	±.060
		a	-3.98	-.06
			-3.87	+.05
			-3.92	±.055
		-.12	-3.86	±.058
June 24, 1898.				
		b	-3.58	+.04
			-3.65	-.03
13	49	06	-3.62	±.035
		a	-3.63	-.01
			-3.62	.00
			-3.62	±.005
		.00	-3.62	±.020
		a	-3.62	.00
			-3.61	+.01
13	59	23	-3.62	±.005
		b	-3.51	+.05
			-3.62	-.06
			-3.56	±.055
		-.06	-3.59	±.030
		b	-3.48	+.05
			-3.58	-.05
14	18	18	-3.53	±.050
		a	-3.67	+.03
			-3.72	-.02
			-3.70	±.025
		-.17	-3.62	±.038
		a	-3.76	-.04
			-3.68	+.04
14	30	11	-3.72	±.040
		b	-3.67	+.03
			-3.61	+.03
			-3.64	±.030
		-.08	-3.68	±.035
June 30, 1898.				
		b	-3.58	+.02
			-3.61	-.01
13	35	36	-3.60	±.015
		a	-3.67	+.04
			-3.75	-.04
			-3.71	±.04
		-.11	-3.66	±.028
		a	-3.63	+.03
			-3.68	-.02
13	42	32	-3.66	±.025
		b	-3.70	+.01
			-3.72	-.01
			-3.71	±.01
		+.05	-3.68	±.08
		b	-3.73	+.01
			-3.75	-.01
13	55	8	-3.74	±.01
		a	-3.58	+.12
			-3.81	-.11
			-3.70	±.115
		+.04	-3.72	±.062
		a	-3.73	+.01
			-3.75	-.01
14	4	29	-3.74	±.01
		b	-3.70	.00
			-3.71	-.01
			-3.70	±.005
		-.04	-3.72	±.008

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β Lyrae. Phot. M.

Comp. Star = +33°3224 (85)

Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.
02		b -3.74	.00		a -3.07	.00		b -3.71	+.02
01			-3.73 +.01			-3.07 .00			-3.75 -.02
015	14 24 26	-3.74	±.005	14 12 23	-307	.00	13 17 58	-3.73	±.02
04		a -3.76	-.03		b -303	-.03		a -379	-.01
04		-3.70	+.03		-2.96	+.04		-378	.00
04		-3.73	±.03		-300	±.035		-378	±.005
028	+.01	-3.74	±.018	-.07	-3.04	±.018	-.05	-376	±.01
03					b -3.06	+.01		a -381	-.01
02					-3.08	-.01		-379	+.01
025				14 29 52	-3.07	±.01	13 30 47	-380	±.01
01					a -3.01	.00		b -384	-.05
01					-3.01	.00		-374	+.05
01	July 1, 1898.				-3.01	.00		-379	±.05
018				+.06	-3.04	±.005	-.01	-380	±.03
01		a -3.12	.00						
01			-3.11 +.01						
01	13 48 53	-312	±.005						
12		b -3.07	-.01						
11			-3.04 +.02						
115		-3.06	±.015	July 6, 1898.					
062	-.06	-3.09	±.010						
01		b -2.96	+.06		a -381	-.01			
01			-3.09 -.07			-3.79 +.01			
01	14 3 1	-3.02	±.065	13 7 10	-380	±.01			
00		a -3.02	+.04		b -3.86	-.04			
01			-3.10 -.04			-3.79 +.03			
025		-3.06	±.04			-382 ±.035			
008	-.04	-3.09	±.052	+.02	-381	±.02			

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Con. from page 173

β Lyrae — Phot. H.

Comp. Star. 33° 3224 (55)

June 22, 1898.			July 9, 1898.			July 11, 1898.		
Gr. M. Time	Diff. Magn.	av. Dev.	Gr. M. Time	Diff. Magn.	av. Dev.	Gr. M. Time	Diff. Magn.	av. Dev.
Rejected b	-3.85	-.03	b	-3.42	.00	a	-3.81	-.01
	-3.79	+.03		-341	+.01		-3.80	.00
13 46 47	-382	±.03	13 2 21	-342	+.005	13 27 56	-3.80	-.005
a	-3.98	+.01	a	-3.57	-.03	b	-3.73	-.01
	-4.00	-.01		-3.50	+.04		-3.72	.00
	-3.99	±.01		-3.54	±.035		-3.72	-.005
-.17	-3.90	±.02	-.12	-3.48	±.020	-.08	-3.76	+.005
a	-3.97	-.03	a	-3.53	-.01	b	-3.74	+.02
	-3.90	+.04		-3.51	+.01		-3.79	-.03
13 54 3	-3.94	±.035	13 14 51	-352	±.01	13 52 34	-3.76	±.025
b	-3.78	-.04	b	-3.47	+.01	a	-383	+.01
	-3.71	+.03		-3.48	.00		-385	-.01
	-3.74	±.035		-3.48	+.005		-384	±.010
-.20	-3.84	±.035	-.04	-3.50	±.008	-.08	-3.80	±.018
b	-374	+.02	b	-3.48	-.01	a	-3.81	+.05
	-3.78	-.02		-346	+.01		-3.91	-.05
14 0 58	-3.76	±.020	13 26 32	-347	±.010	14 12 34	-386	±.05
a	-384	.00	a	-354	.00	b	-3.77	+.03
	-385	-.01		-354	.00		-382	-.02
	-384	-.005		-354	.000		-380	±.025
-.08	-380	±.012	-.07	-350	+.005	-.06	-383	±.018

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Comp. Star 33°3224(85) β Lyrae Phot. M.

Av Dev	July 14, 1895. Gr. M. Time	Diff Magn.	Av. Dev.	July 15, 1895. Gr. M. Time	Diff Magn	Av Dev	July 16, 1895. Gr. M. Time	Diff Magn	Av Dev
01	a	-3.20	+.01	a	-3.01	+.03	a	-3.59	.00
00		-3.22	-.01		-3.07	-.03		-3.59	.00
005	12 56 00	-3.21	±.010	12 53 56	-3.04	±.03	12 54 7	-3.59	.000
01	b	-3.14	-.02	b	-3.00	+.01	b	-3.56	.00
00		-3.10	+.02		-3.02	-.01		-3.56	.00
005		-3.12	±.02		-3.01	±.010		-3.56	.000
005	-.09	-3.16	±.015	-.03	-3.02	±.020	-.03	-3.58	.000
02	b	-3.11	-.03	b	-3.03	-.03	b	-3.57	-.03
03		-3.05	+.03		-2.98	+.02		-3.52	+.02
025	13 9 24	-3.08	±.030	13 1 3	-3.00	±.025	13 8 365	-3.54	±.025
01	a	-3.13	+.05	a	-3.02	+.04	a	-3.61	+.01
01		-3.29	-.08		-3.11	-.05		-3.64	-.02
010		-3.21	±.08		-3.06	-.005		-3.62	±.015
018	-.13	-3.14	±.055	-.06	-3.03	±.045	-.08	-3.58	±.020
05	a	-3.17	-.05	b	-3.07	-.01	a	-3.60	+.02
05		-3.07	+.05		-3.04	+.02		-3.63	-.01
05	13 22 30	-3.12	±.050	13 13 20	-3.06	±.015	13 23 24	-3.62	±.015
03	b	-3.05	+.03	a	-3.09	-.03	b	-3.55	+.01
02		-3.11	-.03		-3.04	+.02		-3.56	.00
025		-3.08	±.03		-3.06	±.025		-3.56	±.005
18	-.04	-3.10	±.040	.00	-3.06	±.020	-.06	-3.59	±.020

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R Lyrae Comp. Star 33°3224 (8.5) Phot. M.

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June 22, 1898.

Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	Gr. M. Time		Diff. Magn.	Av. Dev.	G
	a	-3.97	-.03		b	-3.45	.00		b	-343	+03	
		-3.90	+.04			-3.45	.00			-348	-02	
13 54	3	-3.94	±.035	14 59	21	-345	.000	16 40	48	-346	±025	14
	b	-3.78	-.04		a	-333	+.02		a	-335	-.03	
		-3.71	+.03			-337	-.02			-330	+02	
		-3.74	±.035			-335	±020			-332	±025	
	-.20	-3.54	±.035		+.10	-340	±010		+.14	-339	±025	
	b	-3.74	+.02		a	-341	-.01		a	-334	-02	
		-3.78	-.02			-340	.00			-330	+02	
14 0	58	-3.76	±.02	15 14	0	-340	-.005	17 9	51	-332	±020	14
	a	-3.84	.00		b	-347	-.02		b	-333	+01	
		-3.85	-.01			-343	+.02			-336	-.02	
		-3.84	±.005			-345	±020			-334	±015	
	-.08	-3.80	±.012		+.05	-342	±012		+.02	-333	±012	
					b	-347	+02		b	-332	.00	
						-351	-02			-333	-01	
				16 8	4	-349	±020	17 26	5	-332	-005	15
					a	-349	+02		a	-336	-.03	
						-353	-02			-330	+03	
Sept. 29, 1898.						-351	±020			-333	±030	
					-.02	-350	±020		-.01	-332	±018	
	a	-340	.00		a	-344	+03		a	-330	+01	
		-341	-01			-350	-.03			-332	-01	
14 49	52	-340	-005	16 22	30	-247	±030	17 37	8	-331	±010	15
	b	-348	.04		b	-346	+03		b	-330	+04	
		-355	-.03			-352	-03			-337	-03	
		-352	±035			-349	±030			-334	±035	
	+12	-346	±020		+.02	-348	±030		+.03	-332	±022	

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γ Cygni Phot. I.

June, 29, 1898. Comp Star = +33°4062 (9.0)

Dev	Gr. M. Time	Diff magn	av Dev	Gr. M. Time	Diff magn	av Dev	Gr. M. Time	Diff magn	av Dev
03	a	-1.80	.00	a	-1.67	-.01	a	-1.79	+.05
02		-1.81	-.01		-1.66	.00		-188	-04
025	14 45 3	-1.80	±.005	15 21 53	-1.66	±005	16 2 15	-184	±.045
03	b	-1.56	-.02	b	-1.52	+.02	b	-1.65	+.01
02		-1.51	+.03		-1.55	-.01		-1.68	-.02
025		-1.54	±.025		-1.54	±.015		-166	±.015
025	-.16	-1.67	±.015	-.12	-1.60	±.010	-.18	-1.75	±.030
02	b	-144	-.02	b	-1.54	-.01	b	-1.73	-.04
02		-141	+.01		-1.52	+.01		-1.65	+.04
020	14 52 8	-142	±.015	15 33 19	-1.53	±.01	16 17 35	-1.69	±.040
01	a	-1.82	-.04	a	-1.70	.00	a	-1.90	-.02
02		-1.73	+.05		-1.70	.00		-1.87	+.01
015		-1.78	±.045		-1.70	±.005		-188	±.015
012	-.36	-1.60	±.030	-.17	-162	±.008	-.19	-178	±028
00	a	-1.77	.00	a	-1.75	+.03	a	-1.80	+.08
01		-1.77	.00		-1.70	-.02		-1.96	-.08
005	15 0 23	-1.77	.000	15 42 13	-1.72	±.025	16 27 44	-1.88	±.08
03	b	-1.46	.00	b	-151	+.01	b	-1.64	+.01
03		-1.46	.00		-154	-.02		-166	-.01
030		-146	.00		-152	±.015		-1.65	±.01
018	-.31	-1.62	.000	-.20	-1.62	±.020	-.23	-1.76	±.045
01	b	-149	.00	b	-1.51	+.03	b	-1.68	+.05
01		-149	.00		-1.58	-.04		-1.78	-.05
010	15 13 24	-149	.000	15 52 14	-154	±.035	16 37 38	-173	±.050
04	a	-1.76	.00	a	-1.81	+.01	a	-194	.00
03		-175	.01		-182	00		-194	.00
035		-1.76	+.005		-1.82	+.005		-194	.000
022	-.27	-1.62	+002	-.28	-1.68	±020	-.21	-1.84	±025

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γ Cygni Phot. I.

June, 29, 1898. Comp. Star +33° 4062 (9.0)

Gr.	M	Time		Diff Magn	Av Dev.
			a	-2.00	-.05
				-1.90	+.05
16	45	48		-1.95	±.050
			b	-1.80	-.03
				-1.74	+.03
				-1.77	±.030
			-.18	-1.86	±.040
			b	-1.82	-.02
				-1.79	+.01
16	55	45		-1.80	±.015
			a	-2.00	-.03
				-1.94	+.03
				-1.97	±.030
			-.17	-1.88	±.022

June, 30, 1898.

			a	-2.32	.00
				-2.32	.00
14	46	25		-2.32	.000
			b	-2.04	+.02
				-2.09	-.03
				-2.06	±.025
			-.26	-2.19	±.012

Gr.	M	Time		Diff Magn	Av Dev
			b	-2.10	+.02
				-2.13	-.01
14	54	41		-2.12	±.015
			a	-2.35	-.05
				-2.25	+.05
				-2.30	±.050
			-.18	-2.26	±.032
			a	-2.24	-.01
				-2.22	+.01
15	3	20		-2.23	±.010
			b	-2.04	+.02
				-2.08	-.02
				-2.06	±.020
			-.17	-2.14	±.015
			b	-2.10	+.02
				-2.14	-.02
15	13	37		-2.12	±.020
			a	-2.26	.00
				-2.26	.00
				-2.26	.000
			-.14	-2.19	±.010
			a	-2.25	-.03
				-2.20	.02
				-2.22	±.025
			b	-2.19	-.01
				-2.16	.02
				-2.15	±.015
			-.04	-2.20	±.020

July, 2, 1898.

Gr.	M	Time		Diff Magn	Av Dev	G
			a	-2.10	+.02	
				-2.13	-.01	
13	25	2		-2.12	±.015	14
			b	-1.76	+.04	
				-1.53	-.03	
				-1.80	±.035	
			-.32	-1.96	±.020	
			b	-1.72	+.02	
				-1.75	-.01	
13	36	17		-1.74	±.015	14
			a	-1.96	+.02	
				-2.01	-.03	
				-1.98	±.025	
			-.24	-1.86	±.020	
			a	-1.94	+.01	
				-1.96	-.01	
13	49	18		-1.95	±.010	14
			b	-1.79	-.03	
				-1.74	+.02	
				-1.76	±.025	
			-.19	-1.86	±.018	
			b	-1.81	-.04	
				-1.73	+.04	
13	59	19		-1.77	±.040	
			a	-1.89	+.01	
				-1.92	-.02	
				-1.90	±.015	
			-.13	-1.84	±.028	

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γ Cygni Phot. V.

Comp. Star = +33°4062 (90)

Ecc.	July 2, 1898. Gr. M. Time		Diff. Magn	av. Dev.	July 5, 1898. Gr. M. Time		Diff. Magn	av. Dev.	Gr. M. Time		Diff. Magn	av. Dev.
02		a	-1.55	+.05		a	-2.16	-.06		a	-1.90	-.04
01			-194	-.04			-2.03	+.07			-1.83	+.03
015	14 9	19	-1.90	±.045	13 20	37	-2.10	±.065	13 56	41	-1.86	±.035
04		b	-1.65	+.02		b	-1.79	+.02		b	-1.70	+.01
03			-1.69	-.02			-1.83	-.02			-1.72	-.01
035			-1.67	±.020			-1.81	±.020			-1.71	±.010
020		-.23	-1.78	±.032		-.29	-1.96	±.042		-.15	-1.78	±.02
02		b	-1.60	+.01		b	-1.83	-.01		b	-1.71	+.01
01			-1.62	-.01			-1.81	+.01			-1.73	-.01
015	14 19	52	-1.61	±.010	13 28	13	-1.82	±.010	14 7	14	-1.72	±.010
02		a	-1.82	-.04		a	-1.97	-.03		a	-1.86	-.02
03			-1.74	+.040			-1.92	+.02			-1.81	+.03
025			-1.78	±.040			-1.94	±.025			-1.84	±.025
020		-.17	-1.70	±.025		-.12	-1.88	±.018		-.12	-1.78	±.020
01		a	-1.86	-.02		a	-1.97	-.04		a	-1.75	-.01
01			-1.81	+.03			-1.89	+.04			-1.74	.00
010	14 35	40	-1.84	±.025	13 37	4	-1.93	±.040	14 22	45	-1.74	±.005
03		b	-1.72	-.05		b	-1.73	-.01		b	-1.54	+.02
02			-1.62	+.05			-1.71	+.01			-1.57	-.01
025			-1.67	±.050			-1.72	±.010			-1.56	±.015
018		-.17	-1.76	±.040		-.21	-1.82	±.020		-.15	-1.65	±.010
04		b	-1.53	+.01		b	-1.71	+.02		b	-1.55	.00
04			-1.55	-.01			-1.75	-.02			-1.55	.00
040			-1.54	±.010	13 45	47	-1.73	±.020	14 31	2	-1.55	.000
01		a	-1.69	+.03		a	-1.92	-.05		a	-1.71	+.01
02			-1.76	-.04			-1.82	+.05			-1.73	-.01
015			-1.72	±.040			-1.87	±.050			-1.72	±.010
028		-.15	-1.63	±.025		-.14	-1.80	±.040		-.17	-1.64	±.005

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γ Leporis Phot. U.

July 5, 1898. Comp Star = +33°4062 (9.0)

Gr. M. Time		Diff Magn	av. Dev.	Gr. M. Time		Diff Magn	av. Dev.	Gr. M. Time		Diff Magn	av. Dev.
	α	-1.78	-.04		α	-1.58	.00		α	-1.77	+.03
		-1.70	+.04			-1.59	-.01			-1.84	-.04
14 42 29		-1.74	±.040	15 26 18		-1.58	±.005	16 5 34		-1.80	±.035
	b	-1.62	-.01		b	-1.50	+.02		b	-1.74	+.04
		-1.60	+.01			-1.54	-.02			-1.83	-.05
		-1.61	±.010			-1.52	±.020			-1.75	±.045
	-.13	-1.68	±.025		-.06	-1.55	±.012		-.02	-1.79	±.040
	b	-1.54	+.01		b	-1.55	+.02		b	-1.68	+.02
		-1.56	-.01			-1.59	-.02			-1.73	-.03
14 50 31		-1.55	±.010	15 39 6		-1.57	±.020	16 18 30		-1.70	±.025
	α	-1.50	+.10		α	-1.66	+.04		α	-1.57	+.01
		-1.71	-.11			-1.74	-.04			-1.88	00
		-1.60	±.105			-1.70	±.040			-1.88	±.005
	-.05	-1.58	±.060		-.13	-1.64	±.030		-.18	-1.79	±.015
	α	-1.66	-.02		α	-1.80	-.01		α	-1.92	-.01
		-1.63	+.01			-1.78	+.01			-1.90	+.01
14 59 27		-1.64	±.015	15 48 53		-1.79	±.010	16 25 37		-1.91	±.01
	b	-1.53	.00		b	-1.58	+.03		b	-1.73	-.05
		-1.53	.00			-1.64	-.03			-1.64	+.04
		-1.53	.000			-1.61	±.030			-1.68	±.045
	-.11	-1.58	±.008		-.18	-1.70	±.020		-.23	-1.80	±.028
	b	-1.52	.00		b	-1.66	+.01		b	-1.73	+.03
		-1.53	-.01			-1.68	-.01			-1.78	-.02
15 11 20		-1.52	±.005	15 57 32		-1.67	±.010	16 35 2		-1.76	±.025
	α	-1.55	+.03		α	-1.77	+.01		α	-1.90	-.01
		-1.60	-.02			-1.80	-.02			-1.94	.00
		-1.58	±.025			-1.78	±.015			-1.94	±.005
	-.06	-1.58	±.015		-.11	-1.72	±.012		-.18	-1.85	±.015

July 5 continued Page 190

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1897phae..proj..4460

δ Librae Phot. T.

July 1, 1895. Comp Star =

Gr. M. Time		Diff Magn.	av. Dev.	Gr. M. Time		Diff Magn.	av. Dev.	Gr. M. Time		Diff Magn.	av. Dev.
	b	-4.49	+.09		b	-4.45	+.07		b	-4.67	.00
		-4.67	-.09			-4.59	-.07			-4.67	.00
15	38 43	-4.55	±.090	16	11 21	-4.52	±.070	15	00 15	-4.67	.000
	a	-4.51	-.03		a	-4.42	-.02		a	-4.45	+.03
		-4.46	+.02			-4.38	+.02			-4.52	-.04
		-4.48	±.025			-4.40	±.020			-4.48	±.035
	+.10	-4.53	±.055		+.12	-4.46	±.045		+.19	-4.58	±.020
	a	-4.41	.00		a	-4.47	-.01		a	-4.45	+.01
		-4.41	.00			-4.46	.00			-4.46	.00
15	45 54	-4.41	.000	16	18 3	-4.46	±.005	15	10 37	-4.46	±.005
	b	-4.52	-.04		b	-4.45	+.03		b	-4.58	-.02
		-4.46	+.03			-4.52	-.04			-4.55	+.01
		-4.48	±.035			-4.48	±.035			-4.56	±.015
	+.07	-4.44	±.020		+.02	-4.47	±.020		+.10	-4.51	±.010
	b	-4.56	+.01		b	-4.74	-.08		b	-4.60	+.01
		-4.58	-.01			-4.59	+.07			-4.62	-.01
15	53 30	-4.57	±.010	16	25 22	-4.66	±.075	15	20 12	-4.61	±.010
	a	-4.37	+.02		a	-4.54	-.06		a	-4.57	-.02
		-4.41	-.02			-4.43	+.05			-4.53	+.02
		-4.39	±.020			-4.48	±.055			-4.55	±.02
	+.18	-4.48	±.015		+.18	-4.57	±.065		+.06	-4.58	±.015
	a	-4.38	+.02	July 6, 1895.	a	-4.58	-.02		a	-4.52	.00
		-4.43	-.03			-4.53	+.03			-4.52	.00
16	2 32	-4.40	±.025	14	52 24	-4.56	±.025	15	31 25	-4.52	.000
	b	-4.67	.00		b	-4.67	-.01		b	-4.58	+.02
		-4.67	.00			-4.64	+.02			-4.61	-.01
		-4.67	.000			-4.66	±.015			-4.60	±.015
	+.27	-4.54	.010		+.10	-4.61	±.020		+.02	-4.66	±.002

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γ Cygni Phot. V.

July 5, 1898. Comp Star = +33°4062 (9.0)

Gr. M. Time		Diff Magn	Av. Dev.	Gr. M. Time		Diff Magn	Av. Dev.	Gr. M. Time		Diff Magn	Av. Dev.
	a	-1.99	-.01		a	-2.26	.00		a	-2.34	-.01
		-1.96	+.02			-2.27	-.01			-2.32	+.01
16 43 12		-1.98	±.015	13 41 55		-2.26	±.005	14 28 58		-2.33	±.01
	b	-1.86	.00		b	-2.12	+.02		b	-2.14	+.02
		-1.85	+.01			-2.16	-.02			-2.19	-.03
		-1.86	±.005			-2.14	±.020			-2.16	±.025
	-.12	-1.92	±.010		-.12	-2.20	±.012		-.17	-2.24	±.02
					b	-2.07	+.04		b	-2.21	-.05
						-2.15	-.04			-2.12	+.04
				13 1 56		-2.11	±.040	14 2 44		-2.16	±.045
					a	-2.25	+.02		a	-2.30	+.02
						-2.29	-.02			-2.34	-.02
July 7, 1898.						-2.27	±.020			-2.32	±.02
					-.16	-2.19	±.030		-.16	-2.24	±.032
	a	-2.41	+.01		a	-2.30	+.05		a	-2.32	+.02
		-2.43	-.01			-2.40	-.05			-2.35	-.01
13 20 31		-2.42	±.010	14 4 0		-2.35	±.05	14 57 2		-2.34	±.015
	b	-1.99	-.03		b	-2.08	+.06		b	-2.14	-.01
		-1.94	+.02			-2.21	-.07			-2.12	+.01
		-1.96	±.025			-2.14	±.065			-2.13	±.01
	-.46	-2.19	±.020		-.21	-2.24	±.035		-.21	-2.24	±.012
	b	-1.95	+.01		b	-2.14	.00		b	-2.10	+.02
		-1.96	.00			-2.15	-.01			-2.13	-.01
13 31 56		-1.96	±.005	14 18 45		-2.14	±.005	15 0 32		-2.12	±.015
	a	-2.23	-.03		a	-2.30	-.01		a	-2.27	.00
		-2.18	+.02			-2.28	+.01			-2.27	.00
		-2.20	±.025			-2.29	±.010			-2.27	.00
	-.24	-2.08	±.015		-.15	-2.22	±.008		-.15	-2.20	±.012

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Comp. Star = +33°4062 (9.0) # Y Cygni Phot. I

July 7, 1895.

Gr M. Time	Diff. Magn.	av. Dev.	Gr M. Time	Diff. Magn.	av. Dev.	Gr M. Time	Diff. Magn.	av. Dev.
	a -2.35	-.03		b -1.81	-.03		b -1.67	-.01
	-2.30	+.02		-1.76	+.02		-1.66	.00
15 11 1	-2.32	±.025	13 33 59	-1.78	±.025	14 20 55	-1.66	-.005
	b -2.18	+.01		a -2.01	.00		a -1.83	-.06
	-2.20	-.01		-2.01	.00		-1.71	+.06
	-2.19	±.010		-2.01	.000		-1.77	±.060
-.13	-2.26	±.020	-.23	-1.90	±.012	-.11	-1.72	±.032
	b -2.13	-.01		a -2.03	-.02		a -1.74	.00
	-2.12	.00		-1.99	+.02		-1.75	-.01
15 18 49	-2.12	±.005	13 42 56	-2.01	±.020	14 34 17	-1.74	-.005
	a -2.22	+.04		b -1.66	+.04		b -1.56	.00
	-2.31	-.05		-1.73	-.03		-1.55	.01
	-2.26	±.045		-1.70	±.035		-1.56	+.005
-.14	-2.19	±.025	-.31	-1.86	±.028	.18	-1.65	±.005
				b -1.69	+.01		b -1.60	-.04
				-1.70	.00		-1.52	+.04
			13 52 48	-1.70	+.005	14 42 33	-1.56	±.040
				a -1.90	-.04		a -1.66	+.02
				-1.81	+.05		-1.70	-.02
July 5, 1895.				-1.86	±.045		-1.68	±.02
			-.16	-1.78	±.028	-.12	-1.62	±.030
	a -2.12	-.09		a -1.86	-.01		a -1.70	.00
	-1.94	+.09		-1.83	+.02		-1.69	+.01
13 23 53	-2.03	±.090	14 8 42	-1.86	±.015	14 53 4	-1.70	+.005
	b -1.64	+.06		b -1.69	.00		b -1.44	+.06
	-1.77	-.07		-1.69	.00		-1.57	-.07
	-1.70	±.065		-1.69	.000		-1.50	±.065
-.33	-1.86	±.078	-.16	-1.77	±.008	-.20	-1.60	±.035

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γ Cygni Phot. I

July. 5, 1895.

Gr. M. Time	Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.	Gr. M. Time	Diff. Magn.	Av. Dev.
	b -1.62	-.01						
	-1.60	+.01						
15 52 14	-1.61	±.010						
	a -1.55	-.07						
	-1.72	+.06						
	-1.78	±.065						
-.17	-1.70	±.038						

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δ Librae Phot. T.

Gr. M. Time	Diff Magn	av. Dev.	Gr. M. Time	Diff Magn	av. Dev.	Gr. M. Time	Diff. Magn.	av. Dev.

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194 Comp. Star = D.M. +20° 4204 (9.2)

Variable discovered by Müller & Kempf = U Vulpec. D.M. +20° 4200

Sept. 3, 1895 Ler A.N. Vol 146 p. 37. Sept. 5, 1895.

Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.	Gr. M. Time.	Diff. Magn.	Av. Dev.
	a -2.40	-.01		a -249	.00		b -2.57	.00
	-243	+.01		-249	.00		-2.57	.00
13 22 52	-2.44	±.010	14 39 28	-2.49	.00	14 30 30	-2.57	.000
	b -2.50	+.02		b -253	-.01		a -2.18	.00
	-253	-.01		-2.51	+.01		-2.17	+.01
	-252	±.015		-2.52	±.01		-2.18	+.005
	+.38 -263	±.012		+.33 -266	±.005		+.39 -238	+.002
	b -2.52	+.03	Sept. 6, '95	a -2.05	+.03		a -2.17	-.03
	-2.55	-.03		-2.10	-.02		-2.10	+.04
13 38 50	-2.55	±.030	15 00 21	-2.08	±.025	14 48 6	-2.14	±.005
	a -2.56	-.02		b -2.36	-.06		b -244	-.03
	-2.52	+.02		-220	+.05		-238	+.03
	-2.54	±.020		-2.30	±.055		-241	±.03
	+.31 -270	±.025		+.22 -2.19	±.040		+.27 -228	±.015
	a -2.56	.00		b -2.28	+.02			
	-2.56	.00		-232	-.02			
13 55 36	-2.56	.000	15 31 2	-2.30	±.02			
	b -2.56	+.02		a -2.10	+.01			
	-2.90	-.02		-2.12	-.01			
	-2.88	±.020		-2.11	±.01			
	+.32 -272	±.010		+.19 -220	±.015			
	b -2.89	-.02		a -2.08	-.01			
	-2.50	+.02		-2.06	+.01			
14 14 26	-2.57	±.020	15 56 23	-2.07	±.01			
	a -2.47	-.01		b -226	-.03			
	-246	.00		-2.20	+.03			
	-2.46	±.005		-2.23	±.03			
	+.41 -2.66	±.018		+.16 -2.15	±.02			

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Comp Star = SD-6°5626 (9.2)

Comp. Star = SD.-6°5605

Minor Planet 1895 Q2

Discovered by Witte, Berlin Aug 13.

Sept. 5, '95

Sept. 6, 1895.

Sept. 9, 1895.

Gr M Time	Diff Magn	Av Dev	Gr M Time	Diff Magn	Av Dev	Gr M Time	Diff Magn	Av Dev
Comp. Star = SD.-6°5626 (9.2)			Comp star = SD.-6°5626 (9.2)			Comp. Star = SD - 6° 5608 (9.2)		
	b +2.73	+.14		a +2.60	+.02		+3.76	-.04
	+2.40	-.14		+2.55	-.03		+3.82	+.02
15 0 56	+2.59	±.140	13 50 24	+2.58	±.025	14 40.9	+3.80	±.04
	a +2.82	-.04		b +2.15	+.07		+3.63	-.01
	+2.91	+.00		+2.02	-.06		+3.67	+.01
	+2.86	±.040		+2.08	±.060		+3.64	±.010
+.27	+2.72	±.092	+.50	+2.33	±.045		+3.62	±.024
	a +2.70	+.01		b +2.16	+.02		+3.62	+.04
	+2.74	.00		+2.13	-.01		+3.60	-.04
15 17 59	+2.74	+.005	14 3 33	+2.14	±.015	14 53.9	+3.64	±.040
	b +2.24	-.05		a +2.69	-.03		+3.76	+.06
	+2.39	+.07		+2.74	+.02		+3.63	-.07
	+2.32	±.075		+2.72	±.025		+3.70	±.06
+.42	+2.53	±.040	+.58	+2.43	±.020		+3.67	±.032
				a +2.69	.00		+3.61	+.01
				+2.69	.00		+3.62	-.02
			14 15 3	+2.69	.000	15 4.7	+3.60	±.01
				b +2.17	-.01		+3.26	.00
				+2.18	.00		+3.26	.00
				+2.18	±.005		+3.26	±.000
			+.51	+2.44	±.002		+3.63	±.004

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Variable disc. by Müller + Kempf =
U Vulpeculae. = Dm. +20° 4205.
Comp. Star = Dm. + 20° 4204 (9.2)

G. M. Time.	Diff. Magn.	Av. Dev.	G. M. Time.	Diff. Magn.	Av. Dev.	G. M. Time.	Diff. Magn.	Av. Dev.	G.
	-2.91	+.02		-3.00	-.02				
	-2.97	-.02		-2.87	+.07				
16h 2.3m	-2.93	±.020	16h 34.9m	-2.92	±.07	15 35 50	-2.49	±.020	16
	-2.92	-.02		-2.71	-.01		-2.64	-.04	
	-2.88	+.02		-2.69	+.01		-2.57	+.03	
	-2.90	±.020		-2.90	±.010		-2.60	±.035	
	-2.92	±.020		-2.81	±.042	+.11	-2.54	±.028	
	-2.97	-.03	Sept. 12, 98	-2.68	+.02		-2.66	-.03	
	-2.89	+.03		-2.72	-.02		-2.60	+.03	
16 12.7	-2.92	±.030	15 00 25	-2.70	±.020	15 48 31	-2.63	±.030	16
	-3.10	-.06	a	-2.38	+.03	a	-2.46	.00	
	-2.99	+.07		-2.44	-.03		-2.45	+.01	
	-3.08	±.077		-2.41	±.030		-2.46	+.00	
	-2.92	±.042		-2.56	±.025	+.17	-2.54	±.018	
	-3.03	-.07	a	-2.28	+.06				
	-2.90	+.06		-2.41	-.07				
16 22.7	-2.96	±.067	15 10 38	-2.34	±.065				16
	-2.97	+.07	b	-2.57	+.01				
	-2.66	-.04		-2.59	-.01				
	-2.62	±.047		-2.58	±.010				
	-2.99	±.077	+.24	-2.46	±.038				
	-2.67	+.01	b	-2.60	.00				
	-2.62	-.02		-2.59	+.01				
16 29.2	-2.66	±.017	15 22 12	-2.60	+.005				
	-2.96	-.06	a	-2.37	+.03				
	-2.84	+.06		-2.44	-.04				
	-2.90	±.067		-2.40	±.035				
	-2.92	±.037	+.20	-2.60	±.020				

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Minor Planet Q.2.

Sept. 12, 1895.				Sept. 13, 1895.				Sept. 14, 1895.			
	G. M. Time	Diff Magn	Av. Dev		G. M. Time	Diff Magn	Av. Dev		G. M. Time	Diff Magn	Av. Dev
	Comp. Star = S.D. -6° 55·79 (8.8)				Comp. Star = S.D. -6° 55·85 (8.3)				Comp. Star = S.D. -6° 55·88 (8.3)		
12		a	+3.36	-.02		a	+3.84	-.02		a	+3.95	-.03
12			+3.41	+.03			+3.88	+.02			+4.01	+.03
020	13 56 38		+3.38	±.025	14 31 2		+3.86	±.020	14 17 2		+3.98	±.030
14		b	+3.49	+.05		b	+3.77	+.04		b	+3.74	+.04
03			+3.40	-.04			+3.69	-.04			+3.86	-.04
35			+3.44	±.045			+3.73	±.040			+3.70	±.040
28	-.06		+3.41	±.030	+.13		+3.80	±.030	+.28		+3.84	±.045
03		a	+3.37	-.03		b	+3.78	.00		b	+3.72	-.03
13			+3.43	+.03			+3.77	-.01			+3.78	+.03
130	14 7 54		+3.40	±.030	14 38 57		+3.78	±.005	14 29 6		+3.75	±.030
10		a	+3.24	+.02		a	+3.84	-.02		a	+4.04	.00
21			+3.20	-.02			+3.89	+.03			+4.04	.00
100			+3.22	±.020			+3.86	±.025			+4.04	.00
018	-.18		+3.31	±.025	+.08		+3.82	±.018	+.29		+3.90	±.015
		a	+3.22	-.04		a	+3.97	-.03		a	+4.06	-.03
			+3.30	+.04			+4.04	+.04			+4.12	+.03
	14 19 46		+3.26	±.040	14 51 57		+4.00	±.035	14 35 2		+4.09	±.030
		b	+3.46	+.00		b	+3.69	+.07		b	+3.83	-.03
			+3.45	-.01			+3.74	+.02			+3.89	+.03
			+3.46	±.005			+3.72	±.025			+3.86	±.030
	-.20		+3.36	±.022	+.28		+3.86	±.030	+.23		+3.98	±.030

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Comp star = D.M. +20°4204 (9.2)

Variable discovered by Müller & Kempf.

Sept. 13, 1898 = U Vulpec. = D.M. +20°4200

G.M. Time			Diff'n	Av. Dev.	G.M. Time			Diff'n	Av. Dev.	G.M. Time			Diff'n	Av. Dev.
(1)		b	-2.43	-.03	(4)		a	-2.15	-.01			b	-2.23	+.01
			-2.37	+.03				-2.13	+.01				-2.20	-.01
15	25	00	-2.40	±.030	15	55	59	-2.14	±.010	16	2	47	-2.24	±.010
		a	-2.17	+.01			b	-2.32	-.02			a	-2.15	-.01
			-2.20	-.02				-2.29	+.01				-2.14	.00
			-2.18	±.015				-2.30	±.015				-2.14	±.005
		+.22	-2.29	±.022			+.16	-2.22	±.012			+.10	-2.19	±.008
(2)		a	-2.28	-.02								a	-2.15	+.02
			-2.24	+.02									-2.19	-.02
15	33	20	-2.26	±.020						16	13	22	-2.17	±.020
		b	-2.33	+.04								b	-2.17	.00
			-2.25	+.04									-2.17	.00
			-2.29	±.040	Sept. 14, 1898.								-2.17	.00
		+.03	-2.28	±.030								.00	-2.17	.000
(3)		b	-2.35	-.05			b	-2.16	+.02			b	-2.18	.00
			-2.19	+.05				-2.20	-.02				-2.18	.00
15	46	38	-2.27	±.050	15	45	12	-2.18	±.020	16	26	33	-2.18	.000
		a	-2.12	+.02			a	-2.02	+.02			a	-2.14	-.02
			-2.15	-.03				-2.07	-.03				-2.11	+.01
			-2.14	±.020				-2.04	±.025				-2.12	±.015
		+.13	-2.20	±.052			+.14	-2.11	±.022			+.06	-2.16	±.008
(5)		b	-2.28	+.02			a	-2.09	+.02					
			-2.32	-.02				-2.13	-.02					
16	3	18	-2.30	±.020	15	53	3	-2.11	±.020					
		a	-2.19	+.02			b	-2.16	+.02					
			-2.23	-.02				-2.19	-.01					
			-2.21	±.020				-2.18	±.015					
		+.09	-2.26	±.020			+.07	-2.14	±.018					

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1897phae.proj..4460

Variable discovered by Muller & Kempf.

= S Cygni

Phot I.

Sept. 16, 1898.

Dev	G M Time	Diff Magn	Cur Dev	G M Time	Diff Magn	Cur Dev	G M Time	Diff Magn	Cur Dev
	Comp. Star = 2 m. +25° 3467								
01	a	-2.54	-.01	a	-248	.00	a	-208	.00
01		-2.52	+.01		-247	+.01		-208	.00
010	14 10 28	-253	±.010	13 00 00	-248	±.005	13 13 7	-208	.000
01	b	-256	-.02	b	-259	-.01	b	-220	+.04
00		-252	+.02		-256	+.02		-227	-.03
005		-254	±.020		-258	±.015		-224	±.035
008	+.01	-254	±.015	+.10	-253	±.010	+.16	-216	±.018
02	b	-257	+.03				b	-220	+.01
02		-262	-.02					-222	-.01
020	14 20 4	-260	±.025				13 24 23	-221	±.010
00	a	-244	-.01				a	-205	+.01
00		-242	+.01					-207	-.01
00		-243	±.010	Sept. 30, 1898.				-206	±.010
000	+.17	-252	±.018				+.15	-214	±.010
00	a	-244	.00	a	-202	+.03	a	-201	+.03
00		-245	-.01		-208	-.03		-207	-.03
000	14 33 5	-244	-.005	12 51 47	-205	±.030	13 35 7	-204	±.030
02	b	-247	+.02	b	-217	+.02	b	-226	-.04
01		-251	-.02		-221	-.02		-218	+.04
015		-249	±.020		-219	±.020		-222	±.040
008	+.05	-246	±.012	+.14	-212	±.025	+.18	-213	±.035
	b	-248	+.04	b	-221	-.05			
		-257	-.05		-211	+.05			
	14 48 28	-252	±.045	13 3 47	-216	±.050			
	a	-246	+.01	a	-181	+.11			
		-248	-.01		-202	-.10			
		-247	±.010		-192	±.105			
	+.05	-250	±.028	+.24	-204	±.078			

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Measts. with Phot. I. in order to obtain the brightness of stars -6° vvvv0 and vvvA2.

Sept. 27. '92. 6° vv67 (A2) with -6° vvv60 (9.4)			Sept. 27. '92. -6° vvvv0 (A2) with vvv60 (9.4)			Sept. 27. '92. -6° vvA2 (A3) with vvv79 (8			
G M. Time	Diff Magn.	Cw Dev	G M. Time	Diff Magn.	Cw Dev	G M Time	Diff Mag	Cw Dev	G.
	a +2.16	+.04		a -0.91	-.03		a -0.29	+.05	
	+2.08	-.04		-0.85	+.03		-0.38	-.04	
15 13 25	+2.12	±.040	15 35 10	-0.88	±.030	16 6 52	-0.34	±.045	14
	b +1.92	-.02		b -1.33	-.05		b -0.28	-.02	
	+1.96	+.02		-1.23	+.05		-0.24	+.02	
	+1.94	±.020		-1.28	±.050		-0.26	±.020	
+.18	+2.03	.030	+.40	-1.08	±.040	-.08	-0.30	±.032	
	b +1.85	-.05		b -1.25	-.01		b -0.22	-.05	
	+1.94	+.04		-1.22	+.02		-0.12	+.05	
15 22 44	+1.90	±.045	15 44 40	-1.24	±.015	16 14 52	-0.170	±.05	14
	a +2.13	+.05		a -1.01	+.01		a -0.36	.00	
	+2.02	-.06		-1.03	-.01		-0.36	.00	
	+2.08	±.055		-1.02	±.010		-0.360	.000	
+.18	+1.99	±.050	+.22	-1.13	±.012	-.19	-0.265	±.002	
Sept. 28. '92.	a +2.09	+.01	Sept. 28. '92.	a -0.86	+.06	Sept. 28. '92.	a -0.33	+.06	
	+2.06	-.02		-0.99	-.07		-0.45	-.06	
12 35 39	+2.08	±.015	13 00 31	-0.92	±.065	14 1 50	-0.39	±.060	14
	b +1.95	+.01		b -1.14	+.02		b -0.22	-.02	
	+1.92	-.02		-1.18	-.02		-0.18	+.02	
	+1.94	±.015		-1.16	±.020		-0.20	±.020	
+.14	+2.01	±.015	+.24	-1.04	±.042	-.19	-0.30	±.040	
	b +1.94	-.01		b -1.20	-.02		b -0.20	+.04	
	+1.96	+.01		-1.17	+.01		-0.27	-.03	
12 48 21	+1.95	±.010	13 13 56	-1.18	±.015	14 9 30	-0.24	±.035	14
	a +2.25	+.03		a -1.03	+.03		a -0.30	+.03	
	+2.19	-.03		-1.08	-.02		-0.36	-.03	
	+2.22	±.030		-1.06	±.025		-0.33	±.030	
+.27	+2.08	±.020	+.12	-1.12	±.020	-.09	-0.28	±.032	

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B Lyrae.

Sept. 30, 1898.

Dev	G.M.Time		Diff Magn	Av. Dev	G.M.Time		Diff Magn	Av. Dev	G.M.Time		Diff Magn	Av. Dev
05		b	-3.33	-.03		b	-3.24	-.02		b	-320	+.04
14			-326	+.04			-3.20	+.02			-328	-.04
45	14	0 42	-3.30	±.035	14	48 55	-322	±.020	15	46 17	-324	±.040
02		a	-2.67	-.05		a	-289	+.04		a	-296	-.03
02			-256	+.06			-297	-.04			-290	+.03
20			-262	±.055			-293	±.040			-293	±.030
232		+.32	-296	±.045		+.29	-3.08	±.030		+.31	-3.08	±.035
05		a	-296	-.03		a	-2.93	-.05	Oct. 1, 1898.	b	-361	-.01
5			-291	+.02			-284	+.04			-358	+.02
5	14	12 17	-293	±.025	15	6 16	-288	±.045	15	11 34	-360	±.015
10		b	-3.20	+.08		b	-315	+.01		a	-344	+.01
0			-335	-.07			-317	-.01			-346	-.01
100			-328	±.075			-316	±.010			-345	±.010
02		+.35	-3.10	±.050		+.28	-302	±.028		+.15	-352	±.012
06		b	-3.14	+.11		b	-3.25	+.17		a	-341	-.02
06			-336	-.11			-359	-.17			-337	+.02
60	14	23 36	-325	±.110	15	21 10	-342	±.170	15	38 56	-339	±.020
02		a	-288	.00		a	-294	+.01		b	-350	-.01
2			-289	-.01			-296	-.01			-353	+.01
20			-288	±.010			-295	±.010			-354	±.010
140		+.37	-306	±.060		+.47	-318	±.090		+.15	-346	±.015
14		a	-286	+.01		a	-291	+.01		b	-359	-.01
03			-288	-.01			-294	-.02			-356	+.02
35	14	38 11	-287	±.010	15	33 28	-292	±.015	16	00 59	-358	±.015
3		b	-327	+.01		b	-314	+.02		a	-347	-.01
3			-330	-.02			-318	-.02			-344	+.02
30			-328	±.015			-316	±.020			-346	±.015
32		+.41	-308	±.012		+.24	-304	±.018		+.12	-352	±.015

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U Vulpec.

Oct. 1, 1898.

G M Time		Diff. Magn.	Cur. Dev.
	a	-1.92	+.02
		-1.96	-.02
12 45 3		-1.94	±.020
	b	-2.21	-.01
		-2.20	+.00
		-2.20	±.005
		-2.07	±.012
	b	-2.18	.00
		-2.17	+.01
12 55 43		-2.18	±.005
	a	-1.92	+.03
		-1.98	-.03
		-1.95	±.030
		-2.06	±.018
	a	-2.04	-.02
		-2.01	+.01
13 4 41		-2.02	±.015
	b	-2.14	+.02
		-2.19	-.03
		-2.16	±.025
		-2.09	±.020
	b	-2.12	+.06
		-2.24	-.06
13 16 19		-2.18	±.060
	a	-1.99	+.01
		-2.00	.00
		-2.00	±.005
		-2.09	±.032

G M Time		Diff. Magn.	Cur. Dev.
	a	-1.96	-.02
		-1.93	+.01
13 28 23		-1.94	±.015
	b	-2.16	+.02
		-2.20	-.02
		-2.18	±.020
		-2.06	±.075

Oct 12, 1898

I	b	-2.74	+.08
		-2.89	-.07
14 30 50		-2.82	±.070
	a	-2.76	-.02
		-2.73	+.01
		-2.74	±.015
	+.08	-2.78	±.045
II	a	-2.71	-.02
		-2.67	+.02
14 39 45		-2.69	±.02
	b	-2.80	+.02
		-2.85	-.03
		-2.82	±.025
	+.13	-2.76	±.022

G M Time		Diff. Magn.	Cur. Dev.
IV	a	-2.71	-.03
		-2.65	+.03
14 56 33		-2.68	±.03
	b	-2.80	+.02
		-2.83	-.01
		-2.82	±.015
	+.14	-2.76	±.022
V	b	-2.83	-.01
		-2.80	+.02
15 5 11		-2.82	±.015
	a	-2.74	-.04
		-2.65	+.05
		-2.70	±.045
	+.12	-2.76	±.030
III	b	-2.74	+.02
		-2.77	-.01
14 48 13		-2.76	±.015
	a	-2.59	.00
		-2.59	.00
		-2.59	.000
	+.17	-2.68	±.008

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S Cygni

S Cygni = 28° 3460 Comp. Star = DM. +28° 3467

Dev	G M Time	Diff Magn	Cv. Dev.	G M Time	Diff Magn	Cv. Dev.	G M. Time	Diff Magn	Cv Dev
		b -2.80	.00		b -2.81	-.05	a -2.04		.00
		-2.80	.00		-2.72	+.04	-2.05		-.01
	13 49 27	-2.80	.000	14 35 52	-2.76	±.045	15 02 8	-2.04	-.005
		a -2.65	-.03		a -2.53	+.03	b -2.17		-.01
		-2.60	+.02		-2.58	-.02	-2.14		+.02
5		-2.62	±.025		-2.56	±.025	-2.16		+.015
2		+.18 -2.71	±.012		+.20 -2.66	±.035	+.12 -2.10		±.010
		a -2.61	+.01				b -2.17		-.03
		-2.63	-.01				-2.12		+.02
5	13 59 46	-2.62	±.010				16 4 33	-2.14	±.025
		b -2.84	-.04				a -2.06		.00
		-2.76	+.04				-2.07		-.01
5		-2.80	±.040	Oct. 3. 1898.			-2.06		-.005
30		+.18 -2.71	±.025				+.08 -2.10		±.0015
2		b -2.85	+.06		a -2.14	-.02	a -2.03		+.02
1		-2.73	-.06		-2.10	+.02	-2.07		-.02
5	14 12 40	-2.79	±.060	15 37.1	-2.12	±.020	16 17 30	-2.05	±.020
0		a -2.65	-.03		b -2.02	+.06	b -2.15		-.01
0		-2.60	+.02		-2.13	-.05	-2.14		.00
0		-2.62	±.025		-2.08	±.055	-2.14		±.005
08		+.17 -2.70	±.042		-.04 -2.10	±.038	+.09 -2.10		±.012
		a -2.67	.00		b -2.18	.00			
		-2.67	.00		-2.19	-.01			
	14 26 53	-2.67	.000	15 43 48	-2.18	-.005			
		b -2.80	-.05		a -2.06	+.01			
		-2.70	+.05		-2.08	-.01			
		-2.75	±.050		-2.07	±.010			
		+.08 -2.71	±.025		+.11 -2.12	±.008			

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S T Cygni Phot. I.

Comp. Star = +25°3467 (91)

Oct. 5. 1898.

G.M. Time.		Diff. Magn.	Av. Dev.	G.M. Time.		Diff. Magn.	Av. Dev.	G.M. Time.		Diff. Magn.	Av. Dev.	
	a	-2.62	.00		a	-2.61	-.03		a	-2.10	-.02	
		-2.61	+.01			-2.56	+.02			-2.06	+.02	
15 1 43		-2.62	±.005	15 42 21		-2.58	±.025	15 39 17		-2.08	±.020	15
	b	-2.66	-.02		b	-2.67	-.02		b	-2.26	-.02	
		-2.63	+.01			-2.63	+.02			-2.22	+.02	
		-2.64	±.015			-2.65	±.020			-2.24	±.020	
	+.02	-2.63	±.010		+.07	-2.62	±.022		+.16	-2.16	±.020	
	b	-2.65	+.01						b	-2.30	-.06	
		-2.67	-.01							-2.19	+.05	
15 10 13		-2.66	±.010					15 48 58		-2.24	±.055	10
	a	-2.54	.00						a	-2.16	.00	
		-2.54	.00							-2.17	-.01	
		-2.54	.000							-2.16	-.005	
	+.12	-2.60	±.005						+.08	-2.20	±.052	
	a	-2.57	-.01		a	-2.16	+.02		a	-2.17	+.01	
		-2.56	.00			-2.20	-.02			-2.18	.00	
15 21 23		-2.56	-.005	15 21 26		-2.18	±.020	15 58 48		-2.18	+.005	15
	b	-2.70	-.02		b	-2.26	-.01		b	-2.24	+.02	
		-2.67	+.01			-2.24	+.01			-2.25	-.02	
		-2.68	±.015			-2.25	±.010			-2.26	±.020	
	+.12	-2.62	±.010		+.07	-2.22	±.015		+.08	-2.22	±.012	
	b	-2.69	-.06		b	-2.24	-.02					
		-2.57	+.06			-2.20	+.02					
15 31 35		-2.63	±.060	15 29 35		-2.22	±.020					
	a	-2.61	-.02		a	-2.10	00					
		-2.57	+.02			-2.11	-.01					
		-2.59	±.020			-2.10	-.005					
	+.04	-2.61	±.040		+.12	-2.16	±.012					

Oct. 6. 1898.

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S T. Cygni Phot. I.

Oct. 8. 1898. Comp. Star = +28°3467 (91)

Dev.	G M Time			Diff. Magn.	Cur. Dev.	G M Time			Diff. Magn.	Cur. Dev.	G M Time			Diff. Magn.	Cur. Dev.
02			a	-2.61	-.07			a	-2.73	.00			b	-284	-.02
12				-247	+.07				-2.73	.00				-281	+.01
120	15	17	17	-2.54	±.070	16	37	28	-2.73	.000	15	41	55	-282	±.015
02			b	-2.70	-.02			b	-280	00			a	-284	-.02
12				-2.71	+.02				-281	-.01				-279	+.03
120				-2.73	±.020				-280	-.005				-282	±.025
120			+.19	-2.64	±.045			+.07	-2.76	-.002			.00	-282	±.020
6			b	-2.70	-.01	Oct 12 '98		a	-288	-.04			a	-281	-.03
5				-2.74	.00				-280	+.04				-2.76	+.02
55	10	42	57	-2.74	-.005	15	25	39	-284	±.040	15	49	24	-2.78	±.025
0			a	-2.60	-.02			b	-3.04	-.11			b	-287	-.03
1				-2.57	+.01				-282	+.11				-282	+.02
05				-2.58	±.015				-293	±.110				-284	±.025
52			+.16	-2.66	±.010			+.13	-288	±.075			+.06	-281	±.025
91			a	-2.55	+.01			b	-291	-.02					
90				-257	-.01				-287	+.02					
05	15	51	41	-256	±.010	15	30	42	-289	±.02					
02			b	-273	+.02			a	-292	-.04					
02				-277	-.02				-284	+.04					
020				-275	±.020				-288	±.04					
012			+.19	-266	±.015			+.01	-288	±.03					
			b	-280	-.02			a	-288	-.02					
				-277	+.01				-284	+.02					
				-278	±.015	15	36	31	-286	±.020					
			a	-2.73	-.01			b	-287	.00					
				-271	+.01				-287	.00					
				-272	±.010				-287	.00					
			+.06	-275	±.012			+.01	-286	±.010					

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U Vulpec.

Oct 13 1898

G M Time	Magn	Diff	Cu Diff
	b	-2.73	-.01
		-2.70	+.02
13 48 23		-2.72	±.015
	a	-2.50	.00
		-2.50	.00
		-2.50	.000
		+.22 -2.61	±.008
	a	-2.51	-.01
		-2.48	+.02
13 59 55		-2.50	±.015
	b	-2.66	+.07
		-2.80	-.07
		-2.73	±.07
		+.23 -2.61	±.042
	b	-2.74	+.01
		-2.76	-.01
14 11 23		-2.75	±.010
	a	-2.67	-.01
		-2.64	+.02
		-2.66	±.015
		+.09 -2.70	±.012
	a	-2.61	.00
		-2.61	.00
14 21 9		-2.61	.000
	b	-2.66	.00
		-2.67	-.01
		-2.66	.005
		+.05 -2.64	.002

G M Time	Magn	Diff	Cu Diff
	b	-2.74	-.04
		-2.66	+.04
14 33 11		-2.70	±.04
	a	-2.47	+.01
		-2.48	.00
		-2.48	+.005
		+.22 -2.69	±.022

Oct. 17. 1898.

	b	-2.08	+.02
		-2.13	-.03
15 12 27		-2.10	±.025
	a	-2.11	-.05
		-2.01	+.05
		-2.06	±.05
		+.04 -2.08	±.038
	a	-2.08	-.04
		-2.00	+.04
15 22 48		-2.04	±.040
	b	-2.11	-.01
		-2.09	+.01
		-2.10	±.010
		+.06 -2.07	±.025

G M Time	Magn	Diff	Cu Diff
	b	-2.17	+.01
		-2.19	-.01
15 29 58		-2.18	±.010
	a	-2.01	-.01
		-2.00	.00
		-2.00	-.005
		+.18 -2.09	±.008
	a	-2.00	-.01
		-1.98	+.01
15 38 29		-1.99	±.010
	b	-2.14	+.02
		-2.18	-.02
		-2.16	±.020
		+.17 -2.08	±.010
	b	-2.17	+.01
		-2.19	-.01
15 47 21		-2.18	±.010
	a	-2.07	+.03
		-2.13	-.03
		-2.10	±.030
		+.18 -2.14	±.020

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S Cygni.

Oct 13 1895

G M Time		Diff Magn	Cw Dev
	a	-243	-03
		-236	+04
14 59 17		-240	±035
	b	-259	-.05
		-248	+06
		-254	±055
		+.14	-247 ±045
	b	-253	+02
		-257	-02
15 9 46		-255	±020
	a	-251	-01
		-249	+01
		-250	±010
		+05	-252 ±015
	a	-249	-03
		-242	+04
15 20 46		-246	±035
	b	-255	+01
		-257	-01
		-256	±010
		+10	-251 ±022
	b	-254	.00
		-254	.00
15 33 5		-254	.000
	a	-243	.00
		-243	.00
		-243	.000
		+11	-248 .000

G M Time		Diff Magn	Cw Dev
	a	-248	+08
		-264	-08
15 50 3		-256	±080
	b	-245	+04
		-253	-04
		-249	±040
		-07	-252 ±060
Oct. 15, 1895.	a	-192	+02
		-197	-03
15 32 57		-194	±025
	b	-211	-03
		-206	+02
		-208	±025
		+14	-201 ±025
	b	-216	-02
		-212	+02
15 43 6		-214	±020
	a	-204	-02
		-200	+02
		-202	±020
		+12	-208 ±020
Oct. 17, 1895.	b	-252	-02
		-249	+01
14 22 47		-250	±015
	a	-233	00
		-233	.00
		-233	.000
		+17	-241 ±008

G M Time		Diff Magn	Cw Dev
	a	-239	-.03
		-234	+.02
14 38 33		-236	±020
	b	-249	-.03
		-243	+03
		-246	±030
		+.10	-241 ±028
	b	-240	+04
		-249	-.05
14 40 58		-244	±.040
	a	-243	+.01
		-244	.00
		-244	+.005
		.00	-244 ±.025
	a	-241	-.03
		-235	+.03
14 49 20		-238	±.030
	b	-245	-.03
		-239	+03
		-242	±030
		+.04	-240 ±030
	b	-252	-.05
		-242	+05
14 57 17		-247	±.050
	a	-228	+.02
		-232	-.02
		-230	±.020
		+17	-238 ±035

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1897phae.proj..4460

S T Cygni

Oct. 24. 1898.

G.M. Time		Diff. Magn.	Cur. Dev.
	b	-2.76	+.02
		-2.81	-.03
13	28 33	-2.78	±.025
	a	-2.83	-.09
		-2.65	+.09
		-2.74	±.090
	+.04	-2.76	±.058
	a	-2.68	+.03
		-2.74	-.03
14	6 25	-2.71	±.030
	b	-2.65	+.03
		-2.72	-.04
		-2.68	±.035
	-.03	-2.70	±.032
	b	-2.83	-.05
		-2.74	+.04
14	18 40	-2.78	±.045
	a	-2.81	-.07
		-2.66	+.08
		-2.74	±.075
	+.04	-2.76	±.060
	a	-2.79	-.07
		-2.66	+.06
14	26 42	-2.72	±.060
	b	-3.01	-.08
		-2.85	+.08
		-2.93	±.080
	+.21	-2.82	±.072

G.M. Time		Diff. Magn.	Cur. Dev.
	b	-2.82	-.01
		-2.80	+.01
14	32 34	-2.81	±.010
	a	-2.76	-.02
		-2.71	+.03
		-2.74	±.025
	+.07	-2.78	±.018

Oct 25, 1898

	b	-2.47	-.04
		-2.39	+.04
12	47 52	-2.43	±.040
	a	-2.29	-.03
		-2.22	+.04
		-2.26	±.035
	+.17	-2.34	±.038
	a	-2.34	-.08
		-2.19	+.07
12	56 37	-2.26	±.075
	b	-2.37	-.01
		-2.34	+.02
		-2.36	±.025
	+.10	-2.31	±.052

G.M. Time		Diff. Magn.	Cur. Dev.
	b	-2.38	+.02
		-2.42	-.02
13	7 21	-2.40	±.020
	a	-2.31	-.01
		-2.29	+.01
		-2.30	±.010
	+.10	-2.35	±.015
	a	-2.25	-.01
		-2.24	.00
13	17 38	-2.24	±.005
	b	-2.39	-.03
		-2.34	+.02
		-2.36	±.025
	+.12	-2.30	±.015
	b	-2.41	-.03
		-2.35	+.03
13	30 39	-2.38	±.030
	a	-2.32	-.05
		-2.22	+.05
		-2.27	±.050
	+.10	-2.32	±.040

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ST Cygni

Oct. 27, 1898.

G.M. Time		Diff Magn	Av. Dev.
	a	-2.19	+.03
		-2.25	-.03
18	35 09	-2.22	±.030
	b	-2.30	-.02
		-2.25	+.03
		-2.28	±.025
	+.06	-2.25	±.028
	b	-2.27	+.01
		-2.28	.00
13	43 55	-2.28	+.005
	a	-2.18	.00
		-2.18	.00
		-2.18	.000
	+.10	-2.23	+.002
	a	-2.17	+.01
		-2.20	-.02
13	52 25	-2.18	±.015
	b	-2.30	+.02
		-2.34	-.02
		-2.32	±.020
	+.14	-2.25	±.018
	b	-2.27	+.03
		-2.32	-.02
14	00 57	-2.30	±.026
	a	-2.21	-.01
		-2.20	.00
		-2.20	-.005
	+.10	-2.25	±.015

G.M. Time		Diff Magn	Av. Dev.
	a	-2.27	-.04
		-2.19	+.04
14	20 39	-2.23	±.040
	b	-2.30	.00
		-2.31	-.01
		-2.30	-.005
	+.07	-2.26	±.022

Oct. 31. 1898.

G.M. Time		Diff Magn	Av. Dev.
	a	-2.37	-.01
		-2.36	.00
12	42 37	-2.36	-.005
	b	-2.36	+.03
		-2.42	-.03
		-2.39	±.030
	+.03	-2.38	±.018
	b	-2.46	.00
		-2.43	+.03
12	53 47	-2.46	+.015
	a	-2.34	-.02
		-2.31	+.01
		-2.32	±.015
	+.14	-2.39	±.015

G.M. Time		Diff Magn	Av. Dev.
	a	-2.32	+.02
		-2.35	-.01
13	5 9	-2.34	±.015
	b	-2.53	.00
		-2.53	.00
		-2.53	.00
	+.19	-2.44	±.008
	b	-2.51	+.01
		-2.52	.00
13	20 17	-2.52	+.005
	a	-2.37	+.02
		-2.41	-.02
		-2.39	±.025
	+.13	-2.46	±.015
	a	-2.43	-.04
		-2.35	+.04
13	28 39	-2.39	±.040
	b	-2.51	-.01
		-2.49	+.01
		-2.50	±.010
	+.11	-2.40	±.025
	b	-2.43	-.02
		-2.39	+.02
14	31 21	-2.41	±.020
	a	-2.59	-.03
		-2.53	+.03
		-2.56	±.030
	-.15	-2.48	±.025

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U Vulpec.

Oct. 27, 1898.

G M Time		Diff Magn't	Cur. Dur.
	b	-2.71	.00
		-2.71	.00
12 42 57		-2.71	.000
	a	-2.73	-.01
		-2.70	+.02
		-2.72	±.015
	-.01	-2.72	±.008
	a	-2.70	+.02
		-2.73	-.01
12 52 25		-2.72	±.015
	b	-2.54	-.02
		-2.51	+.01
		-2.52	±.015
	+.10	-2.77	±.015
	b	-2.53	-.01
		-2.51	+.01
13 1 29		-2.52	±.010
	a	-2.67	-.03
		-2.62	+.02
		-2.64	±.025
	+.18	-2.73	±.018
	a	-2.71	-.03
		-2.66	+.02
18 9 59		-2.68	±.025
	b	-2.52	-.01
		-2.50	+.01
		-2.51	±.010
	+.13	-2.74	±.018

G M Time		Diff Magn't	Cur. Dur.
	b	-2.57	+.01
		-2.58	.00
		-2.58	+.005
	a	-2.70	+.02
		-2.73	-.01
		-2.72	±.015
	+.16	-2.80	±.010

Oct 25, 1898.

	b	-2.83	-.03
		-2.76	+.04
14 16 20		-2.80	±.035
	a	-2.76	+.06
		-2.87	-.05
		-2.82	±.055
	-.02	-2.81	±.040
	a	-2.77	+.01
		-2.79	-.01
14 25 2		-2.78	±.010
	b	-2.81	+.01
		-2.83	-.01
		-2.82	±.010
	+.04	-2.80	±.010

G M Time		Diff Magn't	Cur. Dur.
	b	-2.96	-.10
		-2.77	+.09
14 35 10		-2.86	±.095
	a	-2.79	+.01
		-2.81	-.01
		-2.80	±.010
	+.06	-2.83	±.052
	a	-2.84	-.02
		-2.81	+.01
14 46 29		-2.82	±.015
	b	-2.80	-.01
		-2.83	+.01
		-2.84	±.010
	+.02	-2.82	±.012
	b	-2.87	-.01
		-2.86	.00
14 59 36		-2.86	-.005
	a	-2.77	+.01
		-2.79	-.01
		-2.78	±.010
	+.08	-2.81	±.008

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80 Cygni.

Oct 31, 1895. Dec. 7. 1895.

G.M. Time	Diff Magn	Av. Dev	G.M. Time	Diff Magn	Av. Dev	G.M. Time	Diff Magn	Av. Dev
	b -2.57	+.01		a -2.07	-.03	a -2.07		.00
	-2.59	-.01		-2.02	+.02	-2.07		.00
14 42 43	-2.58	±.010	12 58 21	-2.04	±.025	13 02 53	-2.07	.000
	a -2.48	+.02		b -2.19	+.01	b -2.12		+.01
	-2.52	-.02		-2.21	-.01	-2.14		-.01
	-2.50	±.020		-2.20	±.010	-2.13		±.010
	+.08 -2.54	±.015		-2.12	±.018	-2.10		±.005
	a -2.50	.00		b -2.24	-.04			
	-2.50	.00		-2.17	+.03			
14 58 12	-2.50	.000	13 5 23	-2.20	±.035			
	b -2.60	+.02		a -2.13	+.01			
	-2.64	-.02		-2.15	-.01			
	-2.62	±.020		-2.14	±.010			
	+.12 -2.56	±.010		-2.17	±.022			
	2 -2.65	.00		a -2.02	+.00			
	-2.65	.00		-2.12	-.05			
15 12 31	-2.65	.000	13 22 14	-2.07	±.050			
	a -2.51	+.03		b -2.17	+.01			
	-2.57	-.03		-2.19	-.01			
	-2.54	±.030		-2.18	±.010			
	+.11 -2.60	±.015		-2.12	±.030			
	a -2.51	+.01		b -2.17	+.02			
	-2.53	-.01		-2.21	-.02			
15 26 4	-2.52	±.010	13 41 20	-2.19	±.020			
	b -2.70	-.03		a -2.11	-.01			
	-2.70	+.02		-2.08	+.02			
	-2.72	±.025		-2.10	±.015			
	+.20 -2.62	±.018		-2.14	±.018			

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Sawyer's New Variable = +12° 3566 var?

Nov. 3, 1898 Comp. star used = QM. + 12° 3566 (93)

G.M. Time		Diff Magn	Cur. Dev.	G.M. Time		Diff. Magn.	Cur. Dev.	G.M. Time		Diff Magn	Cur. Dev.	G.
	a	-2.60	-.04		a	-2.59	+.01		a	-2.40	-.02	
		-2.52	+.04			-2.60	.00			-2.35	+.03	
12	35 53	-2.56	±.04	13	17 55	-2.60	+.005	11	55 00	-2.38	±.025	14
	b	-2.54	-.04		b	-2.61	.00		b	-2.60	-.07	
		-2.77	+.03			-2.61	.00			-2.46	+.07	
		-2.50	±.035			-2.61	.000			-2.53	±.070	
	+.24	-2.68	±.038		+.21	-2.70	+.002		+.15	-2.46	±.048	
	b	-2.85	-.02						b	-2.56	-.04	
		-2.81	+.02							-2.47	+.05	
12	43 39	-2.83	±.020					12	7 21	-2.52	±.045	14
	a	-2.59	+.06						a	-2.32	-.02	
		-2.71	-.06							-2.27	+.03	
		-2.65	±.060							-2.30	±.025	
	+.18	-2.74	±.040						+.22	-2.41	±.035	
	a	-2.65	-.01		a	-2.37	+.06		a	-2.19	+.04	
		-2.63	+.01			-2.49	-.06			-2.27	-.04	
12	53 12	-2.64	±.010	11	35 52	-2.43	±.060	12	18 41	-2.23	±.040	14
	b	-2.79	-.01		b	-2.54	+.02		b	-2.44	-.06	
		-2.77	+.01			-2.59	-.03			-2.33	+.05	
		-2.78	±.010			-2.56	±.025			-2.38	±.055	
	+.14	-2.71	±.010		+.13	-2.50	±.042		+.15	-2.30	±.048	
	b	-2.81	-.01		b	-2.58	+.04		b	-2.42	-.08	
		-2.79	+.01			-2.67	-.05			-2.26	+.08	
13	8 53	-2.80	±.010	11	45 12	-2.62	±.040	12	33 18	-2.34	±.080	14
	a	-2.62	-.01		a	-2.43	-.05		a	-2.12	+.01	
		-2.60	+.01			-2.34	+.04			-2.14	-.01	
		-2.61	±.010			-2.38	.045			-2.13	±.010	
	+.19	-2.70	±.010		+.24	-2.50	±.045		+.21	-2.24	±.045	

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U Vulpec.

Nov. 3, 1895.

Dev.	G.M.Time.		Diff Magn	Cw. Dev.
2		b	-2.38	-.03
8			-2.32	+.03
25	14	3 27	-2.35	±.030
7		a	-2.29	-.03
7			-2.23	+.03
70			-2.26	±.030
48			-2.30	±.030
4		a	-2.16	+.04
5			-2.23	-.03
45	14	10 32	-2.20	±.035
2		b	-2.40	+.01
3			-2.42	-.01
25			-2.41	±.010
35			-2.30	±.022
4		b	-2.40	+.02
4			-2.43	-.01
40	14	18 33	-2.42	±.015
6		a	-2.21	+.03
5			-2.26	-.02
5			-2.24	±.025
48			-2.33	±.020
8		a	-2.23	-.02
			-2.19	+.02
0	14	27 32	-2.21	±.020
1		b	-2.35	-.03
			-2.30	+.02
10			-2.32	±.025
45			-2.26	±.022

+.09 +.18 +.11

G.M.Time		Diff Magn	Cw. Dev.
	b	-2.38	-.02
		-2.35	+.01
14	36 57	-2.36	±.015
	a	-2.20	+.02
		-2.24	-.02
		-2.22	±.020
		-2.29	±.018

+.14

Nov. 8, 1895.

G.M.Time		Diff Magn	Cw. Dev.
	a	-2.19	+.01
		-2.20	.00
13	55 35	-2.20	+.005
	b	-2.20	.00
		-2.19	+.01
		-2.20	+.005
		-2.20	+.005
	b	-2.20	+.04
		-2.29	-.05
14	16 14	-2.24	±.045
	a	-2.26	-.01
		-2.24	.00
		-2.24	-.005
		-2.24	±.025
	a	-2.22	-.02
		-2.19	+.01
15	31 40	-2.20	±.015
	b	-2.26	-.02
		-2.23	+.01
		-2.24	±.015
		-2.22	±.015

.00 +.04

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Parkhurst New Variable = DM. +15° 4082

Nov. 3. 1898. Comp. Star = DM. 15° 4044 (A.V.)

G.M. Time.	Magn.	Diff.	Cw. Dev.
	b	+0.68	00
		+0.69	+.01
15 14 56		+0.68	±.005
	a	+0.84	-.01
		+0.86	+.01
		+0.85	±.010
+.17		+0.76	±.008
	a	+0.82	+.02
		+0.75	-.02
15 24 6		+0.80	±.020
	b	+0.68	-.02
		+0.72	+.02
		+0.70	±.020
+.10		+0.70	±.020
	b	+0.60	-.04
		+0.68	+.04
15 36 25		+0.64	±.040
	a	+0.67	-.03
		+0.73	+.03
		+0.70	±.030
+.06		+0.67	±.035
	a	+0.76	.00
		+0.70	-.01
15 40 42		+0.76	-.005
	b	+0.71	-.01
		+0.74	+.02
		+0.72	±.015
+.04		+0.74	±.010

G.M. Time	Magn.	Diff.	Cw. Dev
	b	+0.71	00
		+0.71	00
15 53 13		+0.71	000
	a	+0.75	00
		+0.75	.00
		+0.75	000
+.04		+0.73	.000

Nov. 4. 1898.

G.M. Time	Magn.	Diff.	Cw. Dev
	b	+0.73	+.03
		+0.68	-.02
14 56 45		+0.70	±.025
	a	+0.82	-05
		+0.72	+.05
		+0.77	±.050
+.07		+0.74	±.038
	a	+0.72	-.04
		+0.81	+.05
15 7 4		+0.76	±.045
	b	+0.68	-.02
		+0.71	+.01
		+0.70	±.015
+.06		+0.73	±.030

G.M. Time	Magn.	Diff.	Cw. Dev
	b	+0.67	+.01
		+0.65	-.01
15 20 23		+0.66	±.010
	a	+0.75	-.01
		+0.74	.00
		+0.74	.005
+.08		+0.70	±.008
	a	+0.74	+.01
		+0.72	-.01
15 32 38		+0.73	±.010
	b	+0.78	+.04
		+0.71	-.03
		+0.74	±.035
-.01		+0.74	±.022
	b	+0.75	+.01
		+0.72	-.02
15 42 28		+0.74	±.015
	a	+0.84	+.04
		+0.75	-.05
		+0.80	±.045
+.06		+0.77	±.030

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Sawyer's variable

Nov. 4, 1898.

G.M.Time		Diff. Magn.	Av. Dev.	G.M.Time		Diff. Magn.	Av. Dev.	G.M.Time		Diff. Magn.	Av. Dev.
	a	-2.06	+.02		a	-2.04	.00		a	-2.30	-.02
		-2.09	-.01			-2.03	+.01			-2.27	+.01
12	46	46 -2.08	±.015	13	44	41 -2.04	±.000	11	37	37 -2.28	±.015
	b	-2.30	-.04		b	-2.31	+.03		b	-2.37	+.01
		-2.22	+.04			-2.38	-.04			-2.35	.00
		-2.26	.040			-2.34	±.035			-2.35	±.005
	+.18	-2.17	±.028		+.30	-2.19	±.020			-2.33	±.010
	b	-2.25	-.02		b	-2.36	+.04		b	-2.41	+.05
		-2.21	+.02			-2.43	-.03			-2.50	-.04
12	59	1 -2.23	±.020	13	55	56 -2.40	±.035	11	48	51 -2.46	±.040
	a	-2.09	-.01		a	-2.24	-.02		a	-2.32	+.02
		-2.08	.00			-2.20	+.02			-2.36	-.02
		-2.08	-.005			-2.22	±.020			-2.34	±.020
	+.15	-2.16	±.012		+.18	-2.36	±.028			-2.40	±.032
	a	-2.12	-.04	Dec. 7, 1898.	a	-2.23	-.05		a	-2.30	+.06
		-2.05	+.03			-2.14	+.04			-2.47	-.06
13	11	24 -2.08	±.035	11	20	41 -2.15	±.045	12	2	41 -2.41	±.060
	b	-2.19	-.03		b	-2.40	-.05		b	-2.08	-.01
		-2.14	+.02			-2.29	+.08			-2.06	+.01
		-2.16	±.025			-2.37	±.050			-2.07	±.010
	+.08	-2.12	±.030			-2.25	±.062			-2.49	±.035
	b	-2.16	00		b	-2.47	-.01		b	-2.06	+.02
		-2.17	-.01			-2.44	+.02			-2.60	-.02
13	26	54 -2.16	-.005	11	29	1 -2.46	±.015	12	14	17 -2.08	±.020
	a	-1.99	-.01		a	-2.19	+.07		a	-2.02	.00
		-1.97	+.01			-2.33	-.07			-2.03	-.01
		-1.98	±.010			-2.26	±.070			-2.02	-.005
	+.18	-2.07	±.008			-2.36	±.042			-2.05	±.012

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U Vulpec.

Nov. 11, 1898.

G.M. Time	Diff. Magn.	Cv. Dev
	b -2.46	- 02
	-2.43	+.01
14 55 40	-2.44	±.015
	a -2.24	- .02
	-2.19	+.03
	-2.22	±.023
	+22 -2.33	±.019
	a -2.26	+01
	-2.28	-.01
15 1 31	-2.27	±.010
	b -2.36	- 02
	-2.33	+.01
	-2.34	±.015
	+.07 -2.30	±.012
	b -2.25	+.04
	-2.36	-.04
15 9 1	-2.32	±.040
	a -2.19	+.03
	-2.25	-.03
	-2.22	±.030
	+.10 -2.27	±.035
	a -2.24	.00
	-2.24	.00
15 17 6	-2.24	.000
	b -2.43	+.01
	-2.46	-.02
	-2.44	±.015
	+.20 -2.34	±.008

G.M. Time	Diff. Magn.	Cv. Dev
	b -2.41	+.03
	-2.46	-.02
15 26 37	-2.44	±.025
	a -2.18	+.03
	-2.24	-.03
	-2.21	±.030
	+23 -2.32	±.028

Nov. 21. 1898.

	b -2.86	+.01
	-2.88	-.01
13 31 3	-2.87	±.010
	a -2.80	-.05
	-2.70	+.05
	-2.75	±.050
	+12 -2.81	±.030
	a -2.79	-.04
	-2.71	+.04
13 37 52	-2.75	±.040
	b -2.79	+.03
	-2.84	-.02
	-2.82	±.025
	+.07 -2.78	±.032

G.M. Time	Diff. Magn.	Cv. Dev
	b -2.90	-.02
	-2.87	+.01
13 46 16	-2.88	±.015
	a -2.68	-.01
	-2.66	+.01
	-2.67	±.010
	+21 -2.78	±.012
	a -2.71	+.01
	-2.72	.00
13 54 1	-2.72	+.005
	b -2.96	-.01
	-2.94	+.01
	-2.95	±.010
	+.23 -2.84	±.008
	b -2.91	-.04
	-2.83	+.04
14 1 27	-2.87	±.040
	a -2.72	+.01
	-2.74	-.01
	-2.73	±.010
	+.14 -2.80	±.025

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Minor Planet D2

Nov 11, 1898.

Dev.	Gr. M. Time	Diff Magn.	Av. Dev.	Gr. M. Time	Diff Magn.	Av. Dev.	Gr. M. Time	Diff Magn.	Av. Dev.
2		b +4.65	+.03						
1		+4.59	−.03						
5	14 19 52	+4.62	±.030						
1		a +4.96	+.01						
1		+4.98	+.01						
10		+4.97	±.010						
12		+.35 +4.80	±.020						
1.		a +4.98	−.02						
0		+5.01	+.01						
05	14 26 56	+5.00	±.015						
1		b +4.83	+.05						
01		+4.76	−.04						
010		+4.80	±.045						
08		+.20 +4.90	±.030						
4									
4									
40									
1									
1									
10									
025									

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Parkhurst's New Variable

Nov. 15 1898. Comp. Star = D.M. 15° 4084 (8.5)

G.M. Time	Diff Magn.	Av. Dev.	G.M. Time	Diff Magn.	Av. Dev.	G.M. Time	Diff Magn.	Av. Dev.
b	+0.81	+.01	a	+0.81	-.03	a	+0.77	.00
	+0.78	-.02		+086	+.02		+0.77	.00
13 24 21	+0.80	±.015	14 24 2	+0.84	±.025	15 1 47	+0.77	.000
a	+0.78	-.02	b	+0.72	+.02	b	+0.61	.00
	+0.83	+.03		+0.67	-.03		+0.61	.00
	+0.80	±.020		+0.70	±.025		+0.61	.000
.00	+0.80	±.020	+.14	+0.77	±.025	+.16	+0.69	.000
a	+0.78	-.02	b	+0.68	+.02			
	+0.83	+.03		+0.64	-.02			
13 32 45	+0.80	±.025	14 33 29	+0.66	±.02			
b	+0.71	-.05	a	+0.81	-.01			
	+0.81	+.05		+0.82	.00			
	+0.76	±.050		+0.82	-.005			
+.04	+0.78	±.038	+.16	+0.82	±.012			
b	+0.78	-.04	a	+0.79	-.01			
	+0.71	+.03		+0.82	+.02			
13 37 17	+0.74	±.035	14 42 2	+0.80	±.015			
a	+0.71	-.05	b	+0.67	-.03			
	+0.81	+.05		+0.73	+.03			
	+0.76	±.050		+0.70	±.030			
+.02	+0.75	±.042	+.10	+0.75	±.022			
			b	+0.77	+.03			
				+0.70	-.04			
Nov 21. 1898.			14 50 12	+0.74	±.035			
			a	+0.93	+.07			
				+0.79	-.07			
				+0.86	±.070			
			+.12	+0.80	±.052			

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U Vulpec.

Nov. 23. 1898. Reject observations of 23 Phot. out of order.

Dev.	G.M. Time		Diff. Magn.	Av. Dev	Gr. M. Time		Diff. Magn.	Av. Dev	Gr. M. Time		Diff. Magn.	Av. Dev
0		b	-2.49	-.01		b	-2.47	+.01		b	-2.58	-.02
0			-2.46	+.02			-2.50	-.02			-2.54	+.02
00	13 47 54		-2.48	±.015	14 31 43		-2.48	±.015	12 49 43		-2.56	±.020
0		a	-2.36	-.04		a	-2.42	-.02		a	-2.52	-.01
0			-2.27	+.05			-2.37	+.03			-2.50	+.01
00			-2.32	±.045			-2.40	±.020			-2.51	±.010
10			-2.40	±.030			-2.44	±.020			-2.54	±.015
		a	-2.34	+.02						a	-2.49	-.01
			-2.38	-.02							-2.48	.00
	18 57 54		-2.36	±.02					12 59 36		-2.48	-.005
		b	-2.17	+.03						b	-2.59	.00
			-2.24	-.04	Dec 1, 1898.						-2.59	.00
			-2.20	±.035							-2.59	.000
			-2.28	±.028							-2.54	-.002
		b	-2.25	.00		b	-2.61	+.03		b	-2.59	-.01
			-2.25	.00			-2.68	-.04			-2.58	.00
	14 8 9		-2.25	.000	12 33 31		-2.64	±.035	13 9 51		-2.58	-.005
		a	-2.42	+.02		a	-2.50	.00		a	-2.48	+.02
			-2.46	-.02			-2.50	.00			-2.51	-.01
			-2.44	±.020			-2.50	.000			-2.50	±.015
			-2.34	±.010			-2.57	±.018			-2.54	±.010
		a	-2.47	-.01		a	-2.49	.00				
			-2.45	+.01			-2.49	.00				
	14 18 36		-2.46	±.010	12 41 38		-2.49	.000				
		b	-2.48	+.01		b	-2.58	.00				
			-2.50	-.01			-2.59	-.01				
			-2.49	±.010			-2.58	-.005				
			-2.48	±.010			-2.54	-.002				

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Parkhurst's Variable.

Nov. 25, 1898.

Gr. M. Time		Diff Magn	Av. Dev	Gr. M. Time		Diff Magn	Av. Dev	Gr. M. Time		Diff Magn	Av. Dev	Gr.
	b	+0.70	+.04		b	+0.68	+.02		a	+0.39	+01	
		+062	−.04			+0.64	−.02			+0.38	.00	
13	43 25	+066	±.040	14	11 7	+066	±.020	14	31 45	+0.38	±.005	13
	a	+0.70	.00		a	+0.76	+.02		b	+037	+04	
		+0.70	.00			+072	−.02			+0.29	−.04	
		+0.70	.000			+0.74	±.020			+0.33	±.040	
	+.04	+0.68	±.020		+.08	+.0.70	±020		+.05	+0.36	±.022	
	a	+0.68	−.03									
		+0.74	+.03	Star some 3' north of								
13	50 27	+0.71	±.030	Parkhurst's variable and								10
	b	+0.58	−.02	12^s preceding.								
		+0.63	+.03	Comp star = D.M. +15°4084								
		+0.60	±.020	(8.0)								
	+.11	+0.66	±.028									
	b	+0.58	−.02		a	+0.20	+.01					m
		+0.62	+.02			+022	−.02					
13	57 37	+0.60	±.020	14	18 27	+024	±.016					12
	a	+0.76	+.02		b	+0.22	−.05					
		+0.72	−.02			+032	+.05					
		+074	±.020			+0.27	±.050					
	+.14	+0.67	±.020		−.03	+0.26	±.032					
	a	+0.73	.00		b	+0.84	+.02					
		+0.73	.00			+029	−.03					
14	4 29	+0.73	.000	14	24 45	+032	±.020					12
	b	+0.69	−.03		a	+0.30	−.06					
		+076	+.04			+0.41	+.05					
		+072	±.035			+0.36	±.050					
	+.01	+0.72	±.018		+.04	+0.34	±.040					

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Comparison of stars about λ Urs. Min. for Standards of magn.

Nov. 25, 1898.

λ comp with (9.5) 9.5 comp with 8.0 Nov 28. 1898.

Dev.	Gr. M Time		Diff. Magn.	Av. Dev	Gr. M. Time		Diff. Magn.	Av. Dev	Gr. M Time		Diff. Magn.	Av. Dev
01		a	+3.45	−.01		b	+1.82	−.03	λ with 8.0	b	+1.78	+.02
00			+346	.00			+1.88	+.03			+1.74	−.02
005	15 19 48		+346	−.010	15 43 14		+1.85	±.030	14 6 24		+1.76	±.020
04		b	+3.45	−.02		a	+1.68	+.02		a	+1.71	+.05
04			+349	+.02			+1.64	−.02			+1.60	−.06
040			+3.47	±.020			+166	±.020			+1.66	±.055
022	−.01		+3.46	±.015	−.19		+1.76	±.025	−.10		+1.71	±.085
		b	+3.51	+.03		a	+1.66	.00		a	+1.64	−.01
			+3.45	−.03			+1.65	−.01			+1.66	+.01
	15 28 20		+3.48	±.030	15 53 36		+1.66	−.005	14 11 24		+1.65	±.010
		a	+3.45	+.01		b	+1.91	+.04		b	+1.72	+.02
			+3.42	−.02			+1.83	−.04			+1.67	−.03
			+3.44	±.015			+1.87	±.040			+1.70	±.030
	−.04		+3.46	±.022	−.21		+1.76	±.022	−.05		+1.68	±.020
	Nov. 28, 1898.	b	+352	.00	Nov. 28, 1898.	b	+1.67	+.03	9.5 with 11.0	a	+1.56	−.02
			+352	.00			+1.62	−.02			+1.61	+.03
	12 39 42		+352	.000	13 15 48		+1.64	±.025	14 43 06		+1.58	±.025
		a	+346	.00		a	+1.78	−.02		b	+1.66	+.02
			+346	.00			+1.81	+.01			+1.63	−.01
			+3.46	.000			+1.80	±.015			+1.64	±.015
	−.06		+349	.000	+.16		+1.72	±.020	−.06		+1.61	±.020
		a	+3.35	−.02		a	+1.78	−.02		b	+1.64	+.01
			+339	+.02			+1.82	+.02			+1.62	−.01
	12 50 16		+3.37	±.020			+180	±.020	15 3 37		+1.63	±.010
		b	+349	.00		b	+1.71	−.02		a	+1.61	−.03
			+349	.00			+1.75	+.02			+1.66	+.02
			+349	.000			+1.73	±.020			+1.64	±.025
	−.12		+3.43	±.020	+.07		+1.76	±.020	+.01		+1.64	±.018

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Parkhurst's Variable.

Nov. 29, 1895.

G.M. Time		Diff. Magn.	Cw. Dev.
	b	+0.59	−.05
		+0.68	+.04
12 50 6		+0.64	±.045
	a	+0.74	−.02
		+0.79	+.03
		+0.76	±.025
		+0.70	±.035
	a	+0.74	−.02
		+0.79	+.03
12 58 5		+0.76	±.025
	b	+0.78	+.04
		+0.70	−.04
		+0.74	±.040
		+0.76	±.032
	b	+0.71	+.03
		+0.65	−.03
13 7 25		+0.68	±.030
	a	+0.76	.00
		+0.77	+.01
		+0.76	+.005
		+0.72	±.018
Star 2' north & 12s preceding	a	+0.46	+.02
		+0.42	−.02
13 14 30		+0.44	±.020
	b	+0.31	−.01
		+0.33	+.01
		+0.32	+.010
		+0.35	±.015

G.M. Time		Diff. Magn.	Cw. Dev.
(2)		+0.26	+.01
		+0.24	−.01
13 21 54		+0.25	±.010
		+0.39	−.03
		+0.40	+.03
		+0.42	±.030
		+0.34	±.020

Dec. 1, 1895.

	a	+.0.77	−.03
		+.0.84	+.04
13 27 29		+.0.80	±.035
	b	+.0.67	−.01
		+.0.70	+.02
		+0.68	±.015
		+0.74	±.025
	b	+0.62	−.03
		+0.68	+.03
13 37 50		+0.65	±.030
	a	+0.67	−.04
		+0.75	+.04
		+0.71	±.040
		+0.68	±.035

G.M. Time		Diff. Magn.	Cw. Dev.
	a	+0.73	−.01
		+0.70	+.01
13 45 49		+0.74	±.010
	b	+0.70	−.02
		+0.74	+.02
		+0.72	±.020
		+0.73	±.015
	b	+0.79	+.03
		+0.72	−.04
13 54 19		+0.76	±.035
	a	+0.70	.00
		+0.69	−.01
		+0.70	−.005
		+0.73	±.020
	a	+0.77	+.02
		+0.73	−.02
14 3 46		+0.70	±.020
	b	+0.69	−.01
		+0.72	+.02
		+0.70	±.015
		+0.72	±.018

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Parkhurst's Variable.

Dec. 2, 1895.

G. M. Time	Diff Magtt	Av. Dev	G. M. Time	Diff Magtt	Av. Dev	G. M. Time	Diff Magtt	Av. Dev
	a +0.56	+.04						
	+0.77	−.05						
12 33 27	+0.82	±.045						
	b +0.62	.00						
	+0.62	.00						
	+0.62	.000						
	+0.72	±.022						
	b +0.70	+.02						
	+0.65	−.03						
12 42 26	+0.68	±.025						
	a +0.75	−.01						
	+0.77	+.01						
	+0.76	±.010						
	+0.72	±.018						
	a +0.78	.00						
	+0.77	−.01						
12 53 6	+0.78	−.005						
	b +0.64	−.01						
	+0.66	+.01						
	+0.65	±.010						
	+0.72	±.008						
	b +0.65	+.02						
	+0.63	−.03						
13 6 53	+0.66	±.025						
	a +0.80	−.02						
	+0.83	+.01						
	+0.82	±.015						
	+0.74	±.020						

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Comp. of stars about 1 Urs. Min for Standards of magn.

Dec 7. 1898. Gr M Time	Diff Magn	av. Dev.	Dec 7. 1898. Gr M Time	Diff Magn	av. Dev.	Dec. 9. 1898. Gr M Time	Diff Magn	av. Dev.
1 with 8.0 a	+1.76	+04	11.0 with 9.5 b	+1.61	-.04	13 with 9.5 b	+3.10	+.05
	+1.69	-03		+1.69	+04		+294	-.05
14 44 25	+1.72	±035	13 10 5	+1.65	±.04	13 36 52	+302	±.080
b	+1.70	-06	a	+1.59	-.01	a	+295	.00
	+1.82	+06		+1.61	+01		+295	.00
	+1.76	±060		+1.60	±.010		+290	.000
	+1.74	±.048		+1.62	±.025		+298	±.040
	+1.94	+01		+1.66	00	a	+296	.00
	+1.92	-01		+1.67	+01		+296	.00
14 55 2	+1.93	±010	13 20 40	+1.66	+005	13 49 29	+296	.000
	+1.67	+01		+1.59	-.03	b	+296	-.01
	+1.60	-01		+1.65	+.03		+298	+.01
	+1.66	±010		+1.62	±.030		+297	±.010
	+1.80	±010		+1.64	±018		+298	±.005
Dec 8. 1898. 13.0 compared with 9.5	+3.10	-06	Dec 5. 1898. 12.0 compared with 9.5	+249	+.03	b	+272	.00
	+3.23	+07		+243	-.03		+272	.00
13 19 16	+3.16	±065	13 46 57	+246	±.030	14 12 39	+272	.000
a	+3.10	+03	a	+262	-01	a	+261	-.03
	+3.04	-.03		+264	+01		+266	+.02
	+3.07	±030		+263	±010		+264	±.025
	+3.12	±048		+254	±020		+268	±.012
a	+3.04	-03	a	+272	+06	a	+268	.00
	+3.10	+03		+260	-.06		+269	+.01
13 32 14	+3.07	±030	13 39 26	+266	±060	14 25 0	+268	+.005
b	+2.59	-03	b	+271	+03	b	+269	+.03
	+2.95	+03		+266	-02		+262	-.04
	+2.92	±030		+268	±.025		+266	±.035
	+300	±030		+267	±042		+267	±020

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