KG
11366
046

1915phae.proj:1047M

Genevieve F. Mathews

Book 11

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Record Book no. II.

Circumpolar Variables

Estimates of Brightness.

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N.B. A small "c" in ink in a page corner below the page number and between the red lines, indicates that the magnitudes from that page have been copied into the ledger, with the exception of the "yellow" or isochromatic plates. If there are no magnitudes recorded on a page, the "c" indicates that it has been recorded in some way (in the ledger) that these plates could not be measured.

N.B. "Comp." in the remarks, in this book (and others, in which variable stars are measured) indicates "Variable does not compare well with images of comparison ~~stars~~ mt."

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Circumpolar Variables
Estimates of Brightness
R Draconis

12.20 Monday April 26, 1915

	Plate No.	Date Mags.	
	ac 10472	n.s. < 12.5	
	ac 9447	9.7	
	ac 11722	11.9?	Very doubtful if n.s?
	ac 10307	12.6?	Very doubtful Limit of vis.
	ac 8393	n.s. < 11.6	
	ac 7541	10.4	
	ac 8591	8.8?	Poor.
	ac 6171	.	Too poor
	ac 6208	n.s. < 11.6	
	ac 6135	n.s.? < 11.6	
	ac 6300	n.s. < 11.6	
	ac 10399	n.s < 11.6	
	ac 8602	8.7 ?	Very poor E.
1.15			
1.30	ac 10606	9.2	E.
	ac 10593	9.4	E
	ac 10687	8.6	E.
	ac 10219	11.3?	Faint E.
	ac 5662	9.5	E
	ac 5334	9.8	E
	ac 5852	11.4 ?	Faint
	ac 5963	12.3?	Very doubtful if n.s?
	ac 7778	n.s < 10.8	
	ac 7395	8.4	E.
	ac 7332	8.2	E.
	ac 6383	10.8 ?	E.
	ac 8510	10.9	
	ac 9546	11.4?	Very doubtful Limit of vis.

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Monday April 26, 1915

R Draconis.

Plate No.	Magn.	
ac 8720	9.2	E.
ac 8586	9.1	E
ac 4747	9.9	E
ac 5360	9.2?	Poor E.
ac 4776	10.0?	" E
ac 8656	8.7?	" E.
ac 5930	11.5?	" E.
ac 10667	8.3	
ac 10611	9.2	
ac 9837	8.4	
ac 9467	10.2?	h and k used k' covered by defect
ac 9444	9.7	
ac 15753	8.5	
ac 16016	9.1	
ac 16151	11.0	
2.45		
3.20 ac 3537	11.3?	Very doubtful Line of vis. E,
ac 3564	n.s.? < 10.8	
ac 3700	9.6	
ac 16385	n.s.? < 11.6	
ac 3756	7.6?	Two c.s. brighter than a
ac 3832	9.2	
ac 3850	9.7	
ac 16267	12.1	
ac 11569	8.2	
ac 16160	11.3?	Very doubtful o n.s.
ac 15440	n.s. < 12.5	
ac 9708	n.s.? < 10.7	
ac 15592	10.9	

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Monday. April 26, 1915

R Draconis.

c Plates on which variable is not seen.

ac 5876
ac 5009
ac 5049
ac 11332
ac 15428
ac 16414
ac 3992
ac 3892
ac 3656
ac 3598
ac 3493
ac 15367
ac 10294
ac 8410
ac 9624
ac 11194
ac 4599
ac 8531
ac 6287
ac 9533
ac 4924
ac 10353
ac 4491
ac 6314
ac 10480
ac 10466

3.44

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Tuesday April 27, 1915

11.00 R Draconis

Plate No.	Magn.	
ac 291	m.s < 10.8	
ac 2821	10.4	
ac 832	.	Trailed
ac 2564	11.3?	Doubtful E. Faint
ac 2558	10.8?	" E. Faint
ac 815	.	Too poor.
ac 730	8.5	E.
ac 2484	9.8	E.
ac 6560	9.0?	E. Faint
ac 6458	9.0?	E. "
ac 1698	10.5?	E "
ac 6470	8.4?	E.
ac 7362	8.3	E
ac 2301	8.48	E
ac 1607	9.1	E
ac 1515	8.7	E
ac 6409	10.1	E
ac 1495	9.1	E
ac 1438	m.s? < 10.3	E.
ac 6914	11.9?	Very doubtful o' m.s?
ac 7440	9.0	E
ac 8 10271	12.3?	o' hidden by defect
ac 8462	m.s < 10.7	
ac 11814	m.s < 10.6	
ac 10469	12.6?	Extremely doubtful. Lim of vis. E.
ac 8671	8.6	
ac 11486	7.5?	No e.s. brighter than a.
ac 9918	8.0?	Difficult. E.

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Tuesday, April 27, 1915

R Draconis.

	Plate No.	Magn.	
c	ac 3132	10.4	E.
	ac 226	n.s. < 12.5	
	ac 2864	8.6	
	ac 2121	11.9?	o' n.s. E. Poor.
	ac 75	.	Too poor
	ac 1918	* 10.2?	K n.s? E. poor
	ac 8136	10.4	E.
	ac 7485	9.7	
	ac 6536	8.6	E.
12.48			
12.53	ac 7508	9.9	
	ac 4627	.	Trailed.
	ac 4656	10.4	E.
	ac 4691	9.8?	E.
	ac 4863	.	Trailed
	ac 4837	10.7	E.

*Reject. Probably defect measured? See p. 51

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1915phae.proj.1047M

Tuesday, April 27, 1915

R Draconis

Plates on which var. is not seen.

ac 7809	ac 1243
ac 6073	ac 7716
ac 7800	ac 1380
ac 7692	ac 2726
ac 7645	ac 3296
ac 4570	ac 7736
ac 3309	
ac 7274	
ac 7630	
ac 586	
ac 2845	
ac 1939	
ac 215	
ac 8472	
ac 3718	
ac 10542	
ac 6960	
ac 1425	
ac 7509	
ac 7609	
ac 1676	
ac 1743	
ac 7623	
ac 7633	
ac 7644	
ac 2799	
ac 878	
ac 909	

1.10

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1915phae.proj.1047M

Wednesday April 28, 1915

10.32 R Draconis

c

Plate No.	Magn.	
ac 5531	9.3	
ac 8594	8.6	
ac 5460	9.0	
ac 8042	8.4	
ac 5442	9.1	
ac 6042	n.s.? < 9.5	
ac 8698	9.0	
ac 8027	8.2	
ac 5434	9.0	
(5m out) ac 8576	9.1	
ac 7847	10.5	
ac 6445	9.2	
ac 7970	8.0 ?	Very doubtful. Extreme edge.
ac 8565		Fogged in region of var.
ac 5373	9.1	
ac 6436	9.3	
ac 8029	8.4?	Poor.
ac 6726	11.0?	Poor.
ac 4804	10.5	Does not compare well
ac 6691	10.8	
ac 6163	n.s. < 11.0	
ac 6780	11.6?	Very doubtful Lim. of var.
ac 4530	9.8	
ac 6828	n.s? < 10.7	
ac 6814	n.s? < 10.8	
ac 8535	9.9 ?	Poor.
ac 4963	n.s. < 12.2	
ac 8525	10.7	

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1915phae.proj.1047M

Wednesday. April 28, 1915

R Draconis.

Plate No.	Magn	
ac 6129	m.s. < 12.2	
ac 7582	11.3?	Faint
~~ac 60~~		
ac 7543		Too poor.
ac 5977	m.s.? < 12.5	
ac 7515	9.5?	Poor.
ac 6404	10.4?	Faint
ac 8106	9.4?	
ac 5637	9.5	
ac 6605	9.7	
ac 4678	9.9?	Difficult
ac 8099	9.2	Trailed
ac 6549	8.9	f + g used. c < g
ac 8507	10.9	
ac 4876	11.4	
ac 8440	m.s. < 12.2?	
ac 6539	9.0	
ac 4845	10.66 m 1 ✓ 10.76	10.72 V = 10.74 02 02
	10.72 ✓ 1 m 10.82	
* Reject. Probably wrong image measured. See p. 51 ac 8437	* 10.6	
ac 6648	10.1?	Poor.
ac 262	m.s. < 11.6	
ac 313	-	Trailed
ac 329	9.2	
ac 671	10.9	
ac 749	9.4	
ac 967	9.3	
ac 1113	10.66 m 1 ✓ ~~10.76~~	V = 10.71
	~~10.62~~ ✓ 2 m 10.82	

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1915phae.proj.1047M

Wednesday April 28, 1915

R Draconis

Plates on which var. is not seen

ac 432
ac 261
ac 8411
ac 6230
ac 6262
ac 7768
ac 7655
ac 5125
ac 5061
ac 6044
ac 5019
ac 6920
ac 8315
ac 5229
ac 7824
ac 5253
ac 7708
ac 8523

12.00

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1915phae.proj.1047M

Thursday April 29, 1915

10.45 P Draconis

	Plate No.	Magn.	
	ac 4695	9.4 ?	Poor E.
	ac 9422	.	Too black.
*Reject. Probably defect measured. See p. 51.	ac 4266	* ~~10.7~~ ?	Very doubtful. All faint c.s. look same magn.
	ac 160	.	Too poor.
	ac 306	.	Multiple image plate
	ac 159	.	Too poor.
	ac 10634	8.4	E.
	ac 10587	9.5?	Poor. E.
	ac 10705	9.0	E.
	ac 4451	m.s. < 12.2	
	ac 4432		
	ac 14931	.	Multiple image plate
	ac 9346	8.4	E.
	ac 9301	.	off edge
	ac 9268	.	Too poor.
	ac 4783	10.0 ?	E. poor.
	ac 161	.	Too poor.
	ac 6549	8.8	c, e, and f used (See p. 11)
	ac 10008	8.02 d 2 ✓	E.
		V I c 8.06	v = 8.05
	ac 4803	10.6	
	ac 9842	8.8	f and g used.
	ac 777	9.7	
	ac 846	11.0 ?	Scratch over image
	ac 851	11.6 ?	" " "
	ac 1417	11.8	
11.30			
11.50	ac 10725	9.1	
	ac 9724	10.9 ?	Faint

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Thursday, April 29, 1915

P Draconis

c

Plates on which variable is not seen

ac 9127	ac 10955
ac 1099	ac 11044
ac 4523	ac 8869
ac 11866	ac 9732
ac 11776	ac 11945
ac 11733	ac 1373
ac 4385	ac 1323
ac 4432	ac 11735
ac 11024	ac 7617
ac 3501	ac 10312
ac 2629	ac 11893
ac 2661	ac 11957
ac 11754	ac 9669
ac 11792	
ac 9632	
ac 11786	
ac 9577	
ac 11827	
ac 11049	
ac 8860	
ac 10450	
ac 11218	
ac 8854	
ac 8888	
ac 8947	
ac 9011	
ac 10869	
ac 10921	

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Thursday, April 29, 1915

R Draconis

Plate No.	Magn.		
ac 10760	9.5		
ac 9793	9.6		
ac 10777	9.4		
ac 10649	7.84 a | v 7.94 7.92 v = 7.93 .01 .01		
	7.92 v | d 8.02		
ac 9797	9.4		
ac 10659	8.3		
ac 8758	.	Too poor.	
* ac 10972	*~~10.5?~~	faint, poor.	
ac 10810	.	Too poor.	
ac 10272	12.6		
ac 12160	8.7	b and g used	
ac 10107	9.3	multiple image plate	
ac 8783	10.0?	faint, poor.	
ac 10801	9.7		
ac 9905	7.8?	No c.s. brighter than a	
ac 10815	n.s. < 9.5		
ac 10596	9.4		
ac 10600	9.3	fogged	
ac 11374	10.1		
ac 10619	9.1		
ac 11518	7.7?	No c.s. brighter than a	
ac 10623	8.7	b and g used.	
ac 11610	9.0		
ac 8748	10.0		
(5m out) ac 11656	9.7		
12.45 ac 8744	9.7?	Lim. of vis; poor.	
ac 10627	8.7	b and g used	

* Reject. Probably defect measured. See p. 51.

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Thursday, April 29. 1915

3.15

R Draconis

Plate No	Magn.	
ac 10744	9.2	
ac 9456	9.9	T' plate
ac 10053	8.8 ?	T' plate Poor.
ac 9484	n.s. < 10.3	
ac 1123	11.0 ?	E.
ac 11671	10.0	
ac 9454	9.7	
ac 10585	9.4	
ac 854	11.0 ?	faint Poor.
ac. 994	10.1	
ac 1139	11.1	
ac 1498	9.1	
ac 1419	11.2 ?	Does not compare well.
ac 1634	9.3	
ac 1601	8.7	f and g used
ac 1449	11.0	
ac 1551	8.7	f and g used

3.50

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Friday, April 30, 1915

11.06 R Draconis.

Plate No	Magn	
ac 5720	10.3	
ac 2833	10.3	
ac 2827	10.5	
ac 3893	10.5	E.
ac 3774	8.2	
ac 2695	n.s. < 11.6	
ac 3769	7.7?	No c.s. brighter than a.
ac 2550	10.9	
ac 3743	7.8?	No. c.s brighter than a
ac 2923	7.6?	" " " " "
ac 1652	9.8	
ac 2916	7.6?	No c.s. brighter than a.
ac 1648	9.7	
ac 16226		Too near edge.
ac 3099	10.1	
ac 8460	11.0?	Very doubtful. Lim. of vis.
ac 1760	11.5?	Faint.
ac 3188	11.1	
ac 1820	n.s.? < 11.6	
ac 3531	11.6?	Poor.
ac 2122	11.4	
ac 2238	9.8	
ac 3636	10.4	
ac 2304	8.9	
ac 2414	8.7	
ac 2348	8.6	
ac 3641	10.6	

11.45

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Friday April 30, 1915

11.48

R Draconis

Plates on which variable is not seen.

ac 3606
ac 1982
ac 1925
ac 1861
ac 3487
ac 2702
ac 1711
ac 3940
ac 2682
ac 6331
ac 3728
ac 5986
ac 11778
ac 6217
ac 6097
ac 5241
ac 11919
ac 3994
ac 3930
ac 2768
ac 6372

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1915phae.proj.1047M

Friday, April 30, 1915

R Draconis.

Plate No	Magn.	
ac 6283	n.s. < 11.6	
ac 6268	n.s. < 11.6	
ac 2459	8.8	
ac 6322	n.s. < 12.5	
ac 2538	10.4	
ac 2632	n.s. < 11.6	
11.57		
3.02		
ac 6349	11.8?	Doubtful Lin of vis. o' n.s.
ac 3797	8.7	f and g used
ac 6433	9.4	
ac 3803	8.9	
ac 6439	9.3	
ac 3883	10.4?	Doubtful. Peculiar shape. Defective?
ac 3951	n.s.? < 9.5	
ac 5593	9.3	
ac 12014	10.8	
ac 5517	9.2	
ac 5418	9.1	
ac 5383	9.2	
ac 11665	9.9	
ac 5289	10.2	
ac 5364	9.2	
ac 5246	10.8	
ac 12721	n.s.? < 11.6	
ac 6245	n.s. < 11.6	
ac 1721	11.2?	Very doubtful. Lin. of vis.
ac 6398	10.8?	Does not compare well
3.40 ac 1017		Too near edge

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Saturday, May 1, 1915

12.12 R Draconis

	Plate No.	Magn.	
c	ac 5065	8.8	f and g used
	ac 6506	8.5	f and g used
	ac 6471	8.6	" " " "
	ac 6520	8.7	" " " "
	ac 5026	m.s.? < 10.7	
	ac 6449	9.2	
	ac 6561	9.2	Poor
	ac 6555	9.1	
	ac 6548	9.1	
	ac 6610	9.7	
	ac 6603	9.6	
	ac 10594	9.4	
	ac 10615	9.0	
	ac 6591	9.6?	Poor; faint
	ac 10616	9.0	
	ac 8755	9.7?	Poor; faint
	ac 10689	8.7	f and g used
	ac 10711	8.8	" " " "
	ac 8743	9.7?	h' m.s.?
	ac 8839	11.0?	Dim. of vis
	ac 8714	9.2	
	ac 10678	8.6	
	ac 8612	8.9?	Image defective?
	ac 10618	8.8	f and g used.
	ac 9295	9.1	
	ac 10673	8.3?	Does not compare well.
	ac 8616	8.7	f and g used.
	ac 10720	9.0	

Reject. Certainly wrong. See MS 11:4k and R3:132

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Saturday, May 1, 1915

R Draconis

Plate No.	Magn.	
ac 14306	9.1	
ac 10759	9.3	
ac 14335	9.3	
ac 14975	9.2	
ac 15025	8.5	
ac 10767	9.4	
ac 15109	8.7	f and g used
ac 10795	9.7	
ac 8811	10.7 ?	Poor.
ac 15119	8.8	f and g used
ac 14346	9.5	

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1915phae.proj.1047M

Saturday, May 1, 1915

R Draconis

Plates on which variable is not seen.

ac 15137
ac 10868
ac 10807
ac 10926
ac 10870
ac 5162
ac 5171
ac 5200
ac 5206
ac 5111
ac 5115
ac 5018
ac 5037
ac 5099

1.12

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1915phae.proj.1047M

Monday. May 3, 1915

12.27 R Draconis.

Plate No.	Magn.	
ac 5839	11.3	
ac 6074	m.s.?	Scatch over region
ac 8619	8.6?	Poor. f and g used
ac 15246	10.9	
ac 9347	8.7	f and g used
ac 15216	10.1	
ac 15184	9.7	
ac 6021	11.8?	Very doubtful. Line of vis.
ac 15176	9.4?	Poor.
ac 15163	9.2	
ac 15157	9.2	
ac 15151	9.2	
ac 7814	m.s.? < 10.7	
ac 6189	m.s. < 12.2	
ac 14916	10.2	
ac 14509	11.9	
ac 14465	11.6?	Very doubtful Line of vis.
ac 14350	9.7	
ac 4560	m.s.? < 12.7	

1.05
4:18

ac 10579	9.7	
ac 9504	11.2?	Very doubtful Line of vis.
ac 4001	~~10~~ 11.6 ?	" " " " "
ac 6826	‡ 10.9 ?	" " " " "
ac 4896	11.3 ?	" " " " "
ac 9788	9.4	
ac 4667	10.2	Does not compare well.
ac 4314	8.5	f and g used.

‡ Reject. Probably defect measured. See p. 57.

* Reject. Probably defect measured. See p. 51.

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1915phae.proj.1047M

Monday, May 3, 1915

R Draconis

v

Plates on which variable is not seen.

ac 10498	ac 9549
ac 6938	ac 4944
ac 3771	ac 10529
ac 9522	ac 6915
ac 10356	ac 9611
ac 6197	ac 4134
ac 14736	ac 6930
ac 11761	ac 9616
ac 6150	ac 4918
ac 6141	ac 9709
ac 12671	
ac 6031	
ac 6070	
ac 15335	
ac 15324	
ac 11956	
ac 5914	
ac 15305	
ac 10331	
ac 4184	
ac 9712	
ac 7026	
ac 10415	
ac 4601	
ac 6827	
ac 9482	
ac 4022	
ac 6893	

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1915phae.proj.1047M

Monday, May 3, 1915

P Draconis

Plate No.	Magn.	
ac 9749	n.s. ? < 9.3	
ac 9729	10.9 ?	Very doubtful; lim. of vis.
ac 9856	8.3 ?	Difficult
ac 7387	8.6	f and g used.
ac 9818	9.0	
ac 4686	9.8	
ac 7321	8.2	
ac 9812	9.1	
ac 4875	11.7 ?	Faint
ac 4727	9.7	
ac 4754	9.8	
ac 10341	n.s. ? < 12.2	
ac 10028	8.7	
ac 4796	10.7	Does not compare well.
ac 4812	10.3	" " " "
ac 4839	.	Trailed plate
ac 4868	11.3 ?	Faint
ac 9978	8.2	
ac 4775	9.8 ?	Faint
ac 7396	8.7	
ac 7411	.	Too poor.
ac 10027	8.8	f and g used
ac 4777	.	Trailed.
ac 7446	9.0	
ac 7842	10.5	
ac 8040	8.6	f and g used.
ac 7871	.	Trailed.
ac 8049	8.8	f and g used

5.17

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1915phae.proj.1047M

Tuesday, May 4, 1915

3.40 R Draconis

Plate No.	Magn.	
ac 11519	7.6?	No. c.s. brighter than a.
ac 14194	8.7	f and g used,
ac 14197	8.6	" " " "
ac 14170	8.7	" " " "
ac 8492	11.4?	Faint. Defective?
ac 14256	8.5	f and g used
ac 8451	12.3?	Doubtful. f n.s.
ac 11680	10.5?	m defective?
ac 14153	9.1	
ac. 8519	10.8	
ac 14287	9.0	
ac 14121	8.6	f and g used
ac 9770	9.7	T' plate
ac 14164	8.8	f and g used
ac 9948	7.9	Poor.
ac 14228	8.5	f and g used
ac 14242	8.7	" " " "
ac 14206	8.5	f and g used
ac 14219	8.6	" " " "
ac 11379	99	
ac 14046	10.5?	Very doubtful Lim. of vis. Two stps. on this plate, of nearly same length; yet the two images of f differ in magn. several tenths.
ac 11585	8.7	f and g used,
ac 8560	9.21	Poor.
ac 10954	11.8?	Very doubtful. o' covered by def. Faint
ac 8564	9.1	

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Tuesday May 4, 1915

R Draconis.

Plate No.	Magn.	
ac 11556	8.2	
ac 11038	m.s. < 10.8	
ac 14128	9.2	
ac 11531	7.9	
ac 14106	9.7	
ac 14101	10.1	Does not compare well
ac 11272	11.3	
ac 8566	9.2 ?	Poor.

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Tuesday, May 4, 1915

R Draconis

e

Plates on which variable is not seen

ac 11217
ac 14016
ac 13993
ac 11358
ac 11107
ac 11856
ac 11081
ac 8200
ac 14044
ac 8392
ac 8385
ac 8208
ac 11721
ac 14262
ac 11731
ac 8495
ac 8218
ac 8370
ac 8384
ac 13991

4.43

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Wednesday May 5, 1915

5.00 R Draconis

Plate no.	Magn.	yellows
ac 15090	d 4 V V 2 e	
ac 14365	g 4 V V 1 h ?	Poor
ac 8398	g 4 V V 1 N	
ac 14358	g 3 V V 1 N	
ac 8402	·	Too poor Trailed
ac 16340	·	Too near edge
ac 15096	d 3 V V 2 e	
ac 14960	g 1 V V 5 h	
ac 16083	K 3 V V 4 m	
ac 15358	·	Too poor.
ac 16336	n.s. ≤ m m o N	

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Wednesday May 5, 1915

P Draconis

	Plate No.	Magn.	
e	ac 14137	9.1	E.
	ac 8567	8.8	f and g used
	ac 14037	m.s.? < 10.7	a blurred image in dos. of v
	ac 14065		400' foc.
	ac 8436	m.s. < 11.6	
	ac 11482	7.6?	No. c.s. brighter than a
	ac 11770	m.s. < 10.0	
	ac 11646	9.4	
	ac 11491	7.6?	No. c.s. brighter than a

5.32

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Saturday, May 8, 1915

11.23 R Draconis

Plate No	Magn.	
I 18125	9.3	
I 15234	12.4	
I 23067	.	off plate +
I 30815	10.8	
I 17539	13.7	
I 15319	13.6	
I 16426	.	Too near edge.
I 33928	m.s. < 11.6	
I 17459	.	Spectrum:
I 20118	8.2	
I 29363	7.9?	Does not confuse in plate,
I 15948	.	off plate
I 29359	7.7?	No. c.s. brighter than a
I 29255	10.3 ?	E
I 20175	.	off plate.
I 18423	10.66 m / V 10.76 ; 10.72 V / m 10.82	10.72 Difficult. Defects on film. v = 10.74
I 15233	.	Too near edge.
I 33512	.	off plate
I 16213	.	" "
I 17809	11.4	
I 16450	9.2 ?	E.
I 23346	.	off plate
I 26426	.	" "
I 27291	9.4	
I 27309	~	Too near corner
I 27443	10.9 ?	Doubtful. E.
I 27508	11.6 ?	E.
I 27457	10.9	

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Saturday, May 8, 1915

R Draconis

Plate No.	Magn.	
I 27581	.	Off plate.
I 25445	.	" "
I 16425	.	" "
I 15949	7.5 ?	No. 1 e.s brighter than a
I 22887	9.8 ?	E.
I 16449	.	Off plate
I 16566	9.8	
I 20415	9.1	
I 16219	9.0	
I 20414	.	Off plate
I 15222	11.3 ?	Very doubtful 0 m.s?
I 20372	9.1 ?	g off plate E.
I 22886	10.0 ?	Fogged in region of var.
I 29134	12.0	
I 29097	.	Off plate
I 17301	m.s. < 9.3	

1.—

1.30

I 27581	.	Off plate.
I 17033	12.6	
I 28927	.	Off plate.
I 16753	10.9	
I 28925	m.s. < 10.7	E.
I 15701	10.1	
I 20371	8.9 ?	g on extreme edge.
I 19416	* .	Off plate
I 27780	.	Off plate
I 23335	.	" "
I 23064	.	" "

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1915phae.proj.1047M

Saturday, May 8, 1915

R Draconis

	Plate No.	Magn.	
	ac 2550	10.9	
	ac 3188	11.0	
	ac 2122	11.6	
	ac 2348	8.7	f and g used
	ac 7582	11.9?	o' m.s.?
	ac 14175	8.5	
2.07			
2.27			
	ac 8199	m.s. < 10.0	
	ac 8330	m.s. < 11.6	
	ac 2248	99?	Scratch
	ac 14096	9.7	
	ac 11835	m.s. < 10.3	
2.32	ac 14067	m.s.? < 10.3	
	ac 8534	10.1	

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1915phae.proj.1047M

Monday. May 10, 1915

12.00 R Draconis

	Plate. No.	Magn.	
c	ac 3005	8.5	f and g used
	ac 1021	7.9:	Does not compare well
	ac 300	n.s. < 11.6	
	ac 3510	12.4 ?	Poor: faint
	ac 74	.	Trailed
	ac 3504	.	Too poor.
	ac 1729	10.8	
	ac 953	* 9.9?	Very doubtful. Lim. of vis.
	ac 1790	n.s.? < 11.6	
	ac 2945	7.7?	no c.s. brighter than a.
	ac 1994	n.s. < 12.5	
	ac 8583	9.0 ?	E.
	ac 2825	9.9	
	ac 733	8.6	
	ac 1653	10.3?	Poor.
	ac 2857	8.7	
	ac 1625	9.0. ?	Poor.
	ac 611	12.0 ?	o' n.s.?
	ac 2851	9.6	
	ac 1537	8.8	f and g used.
	ac 2947	7.7?	no c.s. brighter than a
	ac 2926	7.8?	" " " " "
	ac 1077	10.4	Does not compare.
* Reject. Too faint and poor. See p. 51	ac 350	8.8	f and g used
	ac 2488	9.7	
	ac 2561	10.9	
	ac 327	.	Class f.
	ac 2571	n.s.? < 10.8	
	ac 2638	n.s.? < 10.8	

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1915phae.proj.1047M

Monday, May 10, 1915

R Draconis

Plate No.	Magn.			
ac 829	10.66m	i ✓	10.76	v = 10.74 oz oz
	10.72	✓	1m 10.82	

ac 2736 12.3

ac 1678 10.1? 3m. Blurred

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1915phae.proj.1047M

Monday, May 10, 1915

R Draconis

v

Plates on which var. is not seen.

AC 3395
AC 2746
AC 2765
AC 822
AC 2732
AC 180
AC 2670
AC 210
AC 2700
AC 880
AC 367
? AC 2857
AC 1901
AC 3445
AC 1831
AC 1869
AC 3488
AC 3281

1.00

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1915phae.proj.1047M

Tuesday, May 11, 1915

H.03 R Draconis

Plate No.	Magn.	
ac 16042	.	Does not cover.
ac 12393	11.5	Faint
ac 12446	9.1	
ac 12733	n.s.< ~~12.2~~ 11.6	
ac 13013	7.6?	no c.s. brighter than a.
ac 13344	11.0	
ac 13697	11.0	
ac 13391	9.9?	Does not compare well
I 35564	.	Var. hidden by
I 34143	.	off edge.
I 35930	.	" "
I 35926	.	" "
I 34862	10.1	
I 34277	.	Too difficult ε.
I 34226	11.9	
I 35932	.	off edge
I 36004	.	" "
I 35945	.	" "
I 35947	.	" "
I 35972	.	" "
I 36036	.	" "
I 36076	.	" "
ac 13402	9.7	
ac 13141	9.7?	2' n.s.
ac 13168	10.9	
ac 12738	~~12.2~~ 11.6?	Faint
ac 13187	n.s.? < 11.0	
ac 13061	.	Too black

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1915phae.proj.1047M

Tuesday, May. 11, 1915

R Draconis

e

Plates on which variable is not seen.

QC 13203
QC 13255
QC 13175
QC 13871
QC 13252
QC 12392
QC 12023
QC 11967

4.47

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1915phae.proj.1047M

Wednesday, May 12, 1915

12.20 R Draconis

	Plate No.	Magn.	
	ac 3563	10.9	
	ac 3734	7.6 :	E.
	ac 3688	9.7	
	ac 13111	8.3	c and e used
	ac 3695	9.7 :	h' not seen.
	ac 3722	8.4	c, e used.
	ac 4008	12.8 ?	q > p H p defective?
	ac 3902	10.9 ?	Faint
12.40			
12.51	ac 6651	10.1 ?	Faint
	ac 6674	n.s? < 10.8	
	ac 6692	10.9	
	ac 5827	11.4?	Faint
	ac 6706	10.8	
	ac 5327	9.8	
	ac 644	!	Too poor: trailed.
	ac 6644	10.2?	Poor.
	ac 624	.	Too poor
	ac 872	.	Trailed
	ac 4089	* ~~10.9?~~	n' n.s.?
	ac 966	.	Trailed
	~~ac 197~~		
	ac 4101	n.s.? < 13.3?	

* Rejct. Too faint and poor. See p. 51

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1915phae.proj.1047M

Wednesday, May 12, 1915

R Draconis.

c Plates on which variable is not seen

z

ac 197
ac 4089
ac 3637
ac 6796
ac 5233
ac 3647
ac 13842
ac 13887
ac 13890
ac 4015
ac 11852
ac 4143
ac 4057

1.15
2.00

ac 8886
ac 9033
ac 5440

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1915phae.proj.1047M

Wednesday, May 12, 1915

~~2.00~~

P Draconis

Plate No.	Magn.	
ac 2947	7.7	
ac 1537	8.6	c, e, used
ac 350	8.7	" " "
ac 3005	8.2	" " "
ac 2945	7.7	
ac 11482	7.4	
ac 2926	7.8	
ac 16267	12.1	
ac 3797	8.4	c, e used.
ac 16151	11.0	
ac 2916	7.5	
ac 3769	7.7	
ac ~~8886~~ 2923	7.5	
ac 6386	10.8	
ac 9347	8.5	
ac 8619	8.6	
ac 7314	8.1	

2.30

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1915phae.proj.1047M

Monday, May 24, 1915

4.32s R Draconis

	Plate No.	Magn.	
c	ac 8834	m.s.? < 10.0	
	ac 8667	.	Too poor.
	ac 16385	12.1?	Line of irs.
	ac 7387	8.3	c and e used
	ac 12437	9.2	
	ac 8040	8.5	c and e used
	ac 12423	9.5?	Does not compare well
	ac 8049	8.6	c, e, used
	ac 12407	9.7	
	ac 13280	m.s < 10.7	T' plate
	ac 10790	9.7	T' plate
	ac 6520	8.7	c, e used
	ac 12445	8.6	" " "
	ac 16306	.	Off plate.
	ac 12396	.	Image of var, faint Bur. Too difficult
	ac 12449	8.3	c, e used
	ac 14194	8.5	" " "
	ac 12506	8.6	" " "
	ac 10638	8.5	" " "
	ac 12570	9.6?	Poor.
	ac 14197	8.4	c, e used
	ac 10642	8.3	" " "
	ac 12596	10.4	
	ac 14170	8.5	e, e, used
	ac 6585	9.0?	Poor
	ac 12629	10.9	
	ac 5065	m.s. < 11.0	
	ac 14164	8.7	e, e used

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1915phae.proj.1047M

Monday, May 24, 1915

R Draconis

Plate No.	Magn.	
ac 6580	9.4	
ac 10331	m.s.? < 10.8?	T' plate
ac 6759	m.s. < 10.3	
ac 15109	8.6	c, e used.
ac 15119	8.7	" " "
ac 8616	8.6	" " "
ac 14228	8.6	" " "
ac 6506	8.6	" " "
ac 10711	8.8?	c, e, g used
ac 14206	8.4	c, e used
ac 10095	9.1	T' plate
ac 10001	8.4	c, e used T' plate

Plates on which var. is not seen

ac 10357
ac 11970
ac 13214

5.36

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1915phae.proj.1047M

Tuesday, May 25, 1915

3.00 P Draconis.

Plate No.	Magn.	
mc 3339	m.s. < 13.9	
mc 5584	9.8	
mc 5537	9.4	
mc 5102	8.2 ?	Difficult
mD 3339	m.s. < 11.0	

yellow plates

mc 5273 ~~8.30~~ f 1 V
V 2 c

mc 5514 V 0 c ? Difficult

Plates on which Variable is not seen

ac 9033
ac 8886
ac 10870

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1915phae.proj.1047M

Tuesday, May 25, 1915

R Draconis

Plate No.	Magn.	
I 36107	.	Does not cover.
I 36096	.	" " "
I 36110	8.4?	Edge. T' plate
I 35564	.	In fogging
I 35946	.	Off edge.
I 36040	.	" "
I 35931	.	" "
I 19071	.	" "
I 24022	.	Does not cover, Iro.?
I 19075.	.	Too near Edge Iro.?

yellows.

ac 1488	~~9.2~~ g 3 v v 1 f	
ac 13961	n.s. < ~~8.8~~ e	
ac 13919	n.s. < g	
ac 13825	n.s. < f?	
ac 1531	.	Too foo.

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1915phae.proj.1047M

Tuesday, May 25, 1915

P Draconis

	Plate No.	Magn.	
	ac 13194	m.s. < 10.8	
	ac 3792	8.3	c, e used.
	ac 3822	9.4	
	ac 3857	9.9	
	ac 3885	m.s. < 10.3	
	ac 10299	* 10.7?	Difficult T' plate
	ac 9968	8.4?	" " "
	ac 5257	11.6?	Faint
	ac 13111	8.8	
	ac 3688	9.9?	Faint
	ac 3734	7.0?	Edge. Difficult
	ac 3563	11.3?	Faint
	ac 14242	8.5	c, e used
	ac 10689	8.6	" " "
	ac 6471	8.5	" " "
	ac 13013	7.3?	
	ac 14219	8.3	c, e used
	ac 11585	8.5	" " "
4.43			
4.49	ac 15440	m.s. < 12.5	
	ac 7314	8.3	c, e used
	ac 8619	8.5?	" " "
	ac 9347	8.5	" " "
	ac 6386	10.9	
	ac 2923	7.5	
	ac 3769	7.7	
	ac 2916	7.7	
	ac 16151	11.0	* Reject. See p.57

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1915phae.proj.1047M

Tuesday, May 25, 1915

P Draconis

Plate No.	Magn.	
ac 3797	8.6	c, e used
ac 16267	12.1	
ac 2926	7.7	
ac 11482	7.3	
ac 2945	7.6	
ac 3005	8.4	c, e. used

5.00

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1915phae.proj.1047M

Wednesday, May 26, 1915

2.00

e

R Draconis

	Plate No.	Magn.	
I.	17452	14.2	
I	18422	~~12.5~~ ?	E. Too poor.
I	29363	7.6?	r too near edge for comparison
I	15949	7.5?	Difficult
I	23349	11.0	
I	26533	11.8	
ac	3770	.	In fogged portion of plate.
ac	350	9.0	
ac	1537	8.7	c, e used
ac	2947	7.6	
ac	6706	10.9	
ac	5827	11.4?	Faint
ac	6692	11.0?	"
ac	6674	m.s.? < 10.8	
ac	6651	10.2?	Faint
ac	3902	10.9?	"
ac	4008	12.9?	"
ac	3722	8.5	c, e used
ac	3695	9.7?	Doubtful. Poor plate.
ac	9484	m.s.? < 10.3	T' plate
ac	9456	10.1	T' plate.
ac	4235	m.s.? < 12.7	q > p?
ac	4248	m.s.? < 12.5	
ac	10053	9.1?	T' plate
ac	7556	10.8?	Lim. of vis.
ac	3878	m.s.? < 10.3	
ac	3805	9.0	
ac	3799	8.2?	Difficult

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1915phae.proj.1047M

Wednesday, May 26, 1915

P Draconis.

Plate No.	Magn.	Yellow.
I 19072	m 2 V	
	∅ V 1 S	
I 19031		
	3 1 V	
	V 3 m	
ac 1487		
	f 2 V	
	V 1 f	

Plates on which variable is not seen.

ac 10312
ac 4143
ac 11893
ac 7895
ac 9669

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1915phae.proj.1047M

Wednesday, May 26, 1915

R Draconis

	Plate No.	Magn.	
✓	ac 1601	8.6	c, e used
	ac 10623	8.7	" " "
	ac 12160	8.6	" " "
	ac 9842	8.5	" " "
	ac 9908	7.6?	Difficult
	ac 5768	.	off plate.
3.06			
3.40	I 36103	.	off plate
	I 18217	8.6?	c, e used Difficult
	ac 8375	10.8? *	Poor.
	ac 1221	12.4	
	I 16479	.	Too near edge.
	ac 3029	8.8	
	ac 3627	.	Broken. Pieces thrown away.
	ac 5870	.	Broken. No slide number ✓
	ac 9906	.	" " " "
	ac 8524	.	" " " "
	ac 5871	.	" " " "
	ac 968	.	Too difficult Two ecc.
4.04			

* Reject. Probably defect measured. See p.57 ✓

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1915phae.proj.1047M

Saturday, October 9, 1915

3.15 P Draconis Remeasures

Plate No.	Magn	
* ~~ac 1918~~		
ac 6914	.	Too uncertain. Image near position of V, but probably not exactly in position. Very faint; defect?
ac 4001	.	Too uncertain. Object in position of V; does not resemble star image. Very faint; probably defect.
ac 953	m.s. < 9.5	
ac 4266	m.s. < 10.6	Faint object very near position of variable; probably mistaken for image of same
* ac 1918	.	Scratch or defect over position of variable
ac 4089	m.s.?	Do not see, too faint to compare
ac 4008	12.8 ?	Very faint
ac 5246	10.66 m 1 V 10.76 10.72	V = 10.74 02, 02
	10.72 V 1 m 10.82	
ac 5257	11.0 ?	
ac 6828	10.4 ?	Im. poor & elong.
ac 8460	10.8 ?	Im. very faint.
ac 8437	m.s. < 12.7	Two esp. on plate.
ac 10972	m.s.? < 10.6	Object close to position of V, but probably not V, because different in shape from star images. Defect?
ac 10299	.	off plate
ac 8375	10.66 m 1 V 10.76 10.72	V = 10.74 02 02
	10.72 V 1 m 10.82	

4.22

* See pp. 51 + 57

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1915phae.proj.1047M

Wednesday, December 15, 1915

2.15 P Draconis

	Plate. No.	Magn.	
v	ac 16168	m.s. < 10.8	
	ac 16433	12.6 ?	Very faint
	ac 16574	m.s. < 10.8	
	ac 16965	11.8 ?	*Does not compare well
	ac 16581	8.5	
	ac 16668	8.5	
	ac 16859	10.8	
	ac 11571	7.4	E
	ac 11619	9.2	E.
	ac 11539	7.3	E
	ac 11526	7.3	E.
	ac 8314	m.s. < 10.3	E.
	ac 8373	m.s.? < 10.3	E.
	ac 3474	m.s. < 11.6	E.
	ac 3486	m.s. < 10.3	E.
	ac 13980	m.s. < 11.6	E.
	ac 11624	9.2	E.
2.57			
3.28	ac 3454	.	Too poor.
	ac 8708	9.2	Comp. v sharper than c.s.
	ac 10728	9.1	
	ac 16417	m.s.? < 10.8	
	ac 16669	8.5	
	ac 16871	m.s.? < 10.8	Too faint and uncertain
	ac 16291	12.1 ?	Very faint c. stars out of order
	ac 16488	m.s. < 11.6	
3.45	ac 16667	8.4	E.

*See note on fly-leaf.

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1915phae.proj.1047M

Friday, December 17, 1915

R Draconis

2.35	Plate No.	Magn.	
	ac 1123	11.0	E.
	ac 16862	n.s. < 8.9	
	ac 16686	8.7	
	ac 16520	n.s. < 10.7	
	ac 16679	8.6	
	ac 17041	.	Off E.
	ac 16738	.	" "
	ac 6253	.	" "
	ac 9643	.	Too poor
	ac 12963	.	Off plate
	ac 16511	n.s.? < 10.7	E.
	ac 13075	.	Off plate
	ac 16422	n.s.? < 12.5	Too faint - shadow on plate
	ac 16828	10.7?	Edge of vis.
	ac 16593	.	Off Edge
	ac 17029	.	" "
	ac 16728	.	" "
	ac 16960	n.s. < 11.6	
	ac 16572	8.2	
	ac 16590	.	Off E.
	ac 7019	.	Not region
	ac 16729	9.4?	Dm. of h peculiar in shape
	ac 16794	10.1	comp. v sharper than c. stars
3.10			
3.23	ac 12641	10.9	very faint T' plate
	D 27532	.	Too badly fogged.
	D 33512	.	Off E.
	D 33928	n.s. < 12.2	
3.30			

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1915phae.proj.1047M

Saturday, December 18, 1915

R Draconis.

v $1.50	Plate No.	Magn.	
	∂ 34962	12.3	Comp. v hazy
	∂ 34605	14.0	Sm. of t Sec. T' plate.
			Yellow
	∂ 19072	R 2 v v 1 S	
	∂ 19031	S 1 v v 3 R	
	ac 16777	h 1 v v 3 h'	
	ac 16544	f 5 v v 1 h	Poor comp.
	ac 16780	.	Off E.
	ac 16546	f 5 v v 2 h	
	ac 14960	f 1 v v 5 h	
	ac 14365	f 6 v v 1 h	
	ac 14358	f 5 v v 2 h ?	h scarcely seen.
	ac 8402	.	Too poor - trailed
	ac 8398	f 6 v h v 1 N h n.s	
	ac 16622	.	Too poor
	ac 16503	n.s < n'	
2.32	ac 16336	n.s < m	

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Monday, December 20, 1915

P Draconis

3.00	Plate No.	Magn.	c
	ac 1959	n.s. < 12.5	Object in dos. of v defect (?)
	ac 3154	10,8 ?	Comp. v large + hazy. Scratch over region, near v
	ac 8439	.	Missing
	ac 13235	n.s. < 9,5	T' Plate
	d 1900	9,1	E.
	d 14403	7,5 ?	Difficult Comp. Trailed, + second image on plate. 2nd images used for comparison
		Yellow	
	ac 1487	f 2 v v 1 h	Not marked "2", or "iso.," but film is fine.
	ac 15096	c 3 v v 1 d	
3.24	ac 15090	f 5 v v 3 c	Dm. of d faculiae, Defective ?
3.40		Blue	
	c 9244	n.s. < 12.5	
	d 3179	13.7 ?	Dim. of vis. Poor. Dm. of s fac.
	c 9245	13.1 ?	" " " Difficult
	d 9219	.	Off plate.
	a 1446	9.6 ?	Too near Σ.
	a 1436	9.7	
	a 1041	* 9.7 ?	Σ 9.0 ? Remeasured Feb. 3, 1916 Mt.

* Reject; wrong im? Extremely difficult & and fused; — other stars off edge

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Monday December 20, 1915

R Draconis

V

Plate No.	Magn.		
a 809	10.66 m	1 V	V = 10.71 (Reduction by proportion)
		V 2 m 10.82	
a 479	10.9		
a 1608	12.0		

4.23

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1915phae.proj.1047M

Wednesday, February 2, 1916

2.20 R Draconis

Plate No.	Magn.	
ac 17114	m.s. < 10.8	
ac 17138	.	Off Plate.
	Remeasures.	
ac 1918	.	Too poor; edge. a mere blur on the film in pos. of variable, which is probably defect in the film.
ac 6826	.	Too difficult to measure; - all faint stars hazy. n > m? Object in position of var. looks like star image but is not the same shape; about 10.8
ac 8460	10.8?	Line of iris; - a mere blur, but seems the same shape and consistency as star images.
ac 8375	.	Too faint and poor. Object in exact pos. of var., about 10.8, looks like star image but is not exactly same shape
ac 10299	*10.8?	*Plate examined carefully. Object measured cannot ~~not~~ be image from Polar exposure, ~~and~~ as this plate was superposed on a pole plate of longer exposure, (or showing fainter stars) and no polar image superposed on this position.

3.10

*Plate re-examined Feb. 3, 1916 Object is from a fainter 2nd exposure on the pole. Discovered by M. O'R. Both regions have a second exposure. Variable is not seen, unless only on this object. Reject

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Friday
~~Thursday~~ May 28, 1915

3.55 Estimates of "e" - originally comp. star for 7 Cass.

Plate No.	Magn.	
ac 2867	8.1	
ac 8000	8.0	
ac 6922	8.1	
ac 10851	8.1	
ac 2758	8.1	
ac 10769	8.0	
ac 2747	8.1	
ac 10820	8.1	
ac 7827	8.1	
ac 2761	8.0	
ac 10848	8.1	
ac 7099	.	Trailed plate
ac 12249	8.1	
ac 2979	8.3	
ac 12293	.	
ac 10904	8.0	
ac 3043	8.2	
ac 12457	8.1	
ac 3050	8.2	
ac 7185	8.0	
ac 3101	8.3	
ac 10949	8.1	
ac 3146	8.1	
ac 12492	8.0	
ac 3185	8.1	
ac 3823	8.1	
ac 11110	8.1	

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1915phae.proj.1047M

Circumpolar Variables
Estimates of Brightness
γ Cassiopeiae

~~3.55~~ ~~Thursday~~ Friday May 28, 1915

Plate No.	Magn.		
ac 8000	11.4		
ac 2867	9.4 ?		ε
ac 6922	.	Too near "e"	ε
ac 10851	.	" " "	ε
ac 2758	10.1		ε
ac 10769	.	Too near e	ε
ac 2747	9.8		ε
ac 10820	m.s. ? < 10.6		ε
ac 7027	.	*Too much influenced on e.	
ac 2761	9.7		ε
ac 10848	10.1		ε
ac 7099	.		
ac 12249	.	sub.	ε
ac 2979	9.4		ε
ac 12293	.	Too poor. Trailed	
ac 10904	m.s < 10.0		ε
ac 3043	9.5		ε
ac 12457	10.0		ε
ac 3050	9.4		ε
ac 7105	10.8		ε
ac 3101	9.6		
ac 10949	10.1		
ac 3146	10.2 ?	Poor.	
ac 12472	.	sub?	
ac 3785	9.9		
ac 3823	10.1 ?	Faint	
ac 11110	9.8		

*c = copied in Ledger

*Hereafter "sub" will represent this note

5.25

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1915phae.proj.1047M

Here, d^2 Beginning omitted and D in from sequence as all fours. d and both retained for we in measures of star 2 comp.

Thu Friday, May 28, 1915

Estimates of "e"

Plate No	Magn.
AC 6567	8.1
AC 12550	8.1
AC 7114	8.1
AC 12541	8.1
AC 6557	8.0
AC 12533	8.0
AC 4016	8.1
AC 12520	8.1
AC 4010	8.2
AC 6709	8.1

~~5.55~~

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1915phae.proj.1047M

Friday May 28, 1915

γ Cassiopeiae.

Plate No.	Mag.	
ac 6567	m.s.? < 9.4	
ac 12550	10.3 ?	Poor. almost sup.
ac 7114	10.8 ?	Poor " "
ac 12541	10.3	
ac 6557	m.s.? < 10.2	
ac 12533	m.s.? < 10.2	
ac 4016	9.9 ?	
ac 12520	m.s.? < 10.2	
ac 4010	9.7	
ac 6709		sup.

5.55

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1915phae.proj.1047M

Monday May 31, 1915

2.00 ~~+ Cassiopeiae~~ Estimates of "e"

Plate No.	Magn.	
ac 5137	8.1	
ac 14520	8.2	
ac 10738	8.0	
ac 5108	8.1	
ac 12714	8.1	
ac 14551	8.1	
ac 5092	8.1	
ac 10718	8.0	
ac 5056	8.1	
ac 12645	8.0	
ac 4982	8.1	
ac 10709	8.0	
ac 4965	8.0	
ac 13677	8.1	
ac 4494	8.2	
ac 10680	8.0	
ac 4453	8.0?	c' defective.
ac 4389	8.1	
ac 10458	8.0	
ac 12495	8.1	
ac 3765	8.3	
ac 3190	8.2	
ac 6864	8.1	
ac 12466	8.1	
ac 3092	8.3	
ac 3068	8.2	
ac 10912	8.0	
ac 2909	8.1 ?	Near defect

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1915phae.proj.1047M

Monday May 31. 1915

γ Cassiopeiae

Plate No.	Magn.		
ac 5137	.	surf.	E
ac 14520	9.4		
ac 10738	.	surf.?	E
ac 5108	.	surf.?	E
ac 12714	.	surf.	
ac 14551	.	surf.	
ac 5092	.	surf.	E
ac 10718	.	surf.?	E
ac 5056	~~11.2?~~	surf.	E
ac 12645	11.2?	Poor.	
ac 4982	.	surf.	E
ac 10709	.	surf.?	E
ac 4965	m.s. < 8.7		E
ac 13677	11.3?	Poor.	
ac 4494	9.0		E
ac 10680	.	surf.	E
ac 4453	9.2		E
ac 4389	9.4		E
ac 10458	m.s.? < 10.0		E
ac 12495	10.5?	Faint	E
ac 3765	10.3?	"	E
ac 3190	10.1		E
ac 6864	.	surf.	E
ac 12466	10.0		E
ac 3092	9.7		E
ac 3068	9.3		E
ac 10912	m.s. < 9.4		E
ac 2909	.	Too near defect.	E

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1915phae.proj.1047M

Monday, May 31, 1915

Estimates of "e"

Plate No.	Magn.
ac 6903	8.1
ac 14425	8.0
ac 14348	.
ac 9989	8.1
ac 11088	8.2
ac 14697	8.0
ac 3811	8.1
ac 6840	8.0
ac 11163	8.2
ac 14829	8.0
ac 4343	8.3
ac 14763	8.1
ac 14343	8.2
ac 4323	8.3
ac 10098	8.1
ac 4300	8.0
ac 14585	8.3
ac 4276	8.3
ac 10029	8.3 ?
ac 4204	.
ac 14622	8.2
ac 4178	8.1
ac 12758	8.3
ac 4137	8.1
ac 10890	8.0

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1915phae.proj.1047M

Monday. May 31. 1915

γ Cassiopeiae

Plate No.	Magn.		
ac 6903	m.s.? < 10.5?		E
ac 14425	9.4		
ac 14348	.	Trailed	Class c.
ac 9989	9.4?	Difficult: in fogging of c.	E
ac 11088	9.6		E
ac 14697	9.7?	g² m.s.	
ac 3811	9.7?	Faint	E
ac 6840	m.s. < 11.3		E
ac 11163	9.7?	Difficult: Two exp.	E
ac 14829	10.1?	Faint	E
ac 4343	9.2		E
ac 14763	10.0?		
ac 14343	9.9		
ac 4323	9.4		E
ac 10098	9.4?		E
ac 4300	9.2		E
ac 14585	9.6		
ac 4276	9.4		E
ac 10029	9.4?	Images jeculiar; surrounded by haze	E
ac 4204	.	Trailed	E
ac 14622	9.6		
ac 4178	9.5		E
ac 12758	m.s.? < 11.5		
ac 4137	9.6		E
ac 10890	10.1?	g' m.s.	E

4.00

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1915phae.proj.1047M

Tuesday, June 1, 1915

3.53

Estimates of "e"

Plate No.	Magn.
ac 11210	8.0
ac 12085	8.1
ac 6515	8.1
ac 12076	8.1
ac 6489	8.0
ac 9547	8.0
ac 6426	8.1
ac 6394	8.1
ac 11007	8.0
ac 11988	8.0
ac 5830	8.3
ac 11961	8.1
ac 5821	8.2
ac 9628	8.1
ac 5744	8.1
ac 11942	8.1
ac 12122	8.0
ac 5721	8.3
ac 12217	8.1
ac 11907	8.1
ac 5676	8.1
ac 9703	8.1
ac 5663	8.1
ac 12264	8.0
ac 11350	8.1
ac 4085	8.0
ac 5409	8.1
ac 11290	8.1

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1915phae.proj.1047M

Tuesday, June 1, 1915

T Cassiopeiae

Plate No.	Magn.	
ac 11210	9.8	
ac 12085	m.s. < 10.5	
ac 6515	.	sup.
ac 12096	m.s.? < 10.8	
ac 6489	m.s.? < 10.0	
ac 9547	.	sup.
ac 6426	m.s.? < 9.4	
ac 6394	9.8?	Faint
ac 11004	.	Too difficult; trailed plate.
ac 11988	m.s. < 10.8	
ac 5830	9.8	
ac 11961	m.s. < 10.6	
ac 5821	10.1?	almost sup.
ac 9628	m.s.? < 10.8	
ac 5744	10.3?	
ac 11942	m.s. < 11.4	
ac 12122	m.s. < 10.6	
ac 5721	10.1	
ac 12217	.	sup E.
ac 11907	m.s. < 10.5	
ac 5676	10.1	
ac 9703	9.9?	Poor.
ac 5663	10.2	
ac 12264	.	sup.
ac 11350	9.8?	
ac 4085	9.9?	
ac 5709	10.0?	
ac 11290	9.8	

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1915phae.proj.1047M

Tuesday June 1, 1915

Estimates of "e"

Plate No.	Magn.
ac 9827	8.1
ac 5362	8.1
ac 11274	8.2
ac 5285	8.1
ac 11252	8.2
ac 5259	8.2
ac 5184	8.0
ac 11231	8.2
ac 5174	8.0
ac 12178	8.1
ac 11871	8.0
ac 5607	8.1

~~5.10~~

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1915phae.proj.1047M

Tuesday, June 1, 1915

7 Cassiopeiae

Plate No.	Magn.	
ac 9827	9.7	
ac 5362	n.s.? < 10.5	
ac 11274	~~10.0~~ 9.8	
ac 5285	10.1?	g' n.s.
ac 11252	9.8	
ac 5259	10.8?	
ac 5184	.	enf.?
ac 11231	9.8	
ac 5174	n.s.? < 10.8	
ac 12178	.	enf.
ac 11871	n.s.? < 10.2	
ac 5607	10.1	

(4m out)
5.16

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Wednesday, June 2, 1915

5.15 Estimates of "e"

Plate No.	Magn.
ac 4069	8.0
ac 5553	8.2
ac 9510	8.1
ac 11830	8.2
ac 9765	8.2
ac 9089	8.1
ac 9077	8.1
ac 14049	8.0
ac 9064	8.1
ac 13604	8.3
ac 9058	8.1
ac 9051	8.3
ac 13467	8.2
ac 9009	8.1
ac 13449	8.1
ac 8982	8.1
ac 13412	8.1
ac 8938	8.1
ac 8917	8.1
ac 13335	8.1
ac 8892	8.1
ac 13324	8.2
ac 13303	8.1
ac 8864	8.1

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1915phae.proj.1047M

Wednesday, June 2, 1915

γ Cassiopeiae

Plate No.	Magn.		
ac 4069	9.8?		E
ac 5553	10.1		E
ac 9510	.	surf. T'plate	E
ac 11830	n.s. < 9.4		E
ac 9765	9.9		E
ac 9089	.	surf	E
ac 9077	n.s. < 10.5		E
ac 14049	.	surf?	E
ac 9064	n.s. < 9.4		E
ac 13604	10.3?	almost surf.	E
ac 9058	.	surf.	E
ac 9051	10.3		
ac 13467	.	surf.	E
ac 9009	n.s.? < 9.4		E
ac 13449	9.9?	almost surf.	E
ac 8982	.	surf.	E
ac 13412	9.9		E
ac 8938	9.9?	almost surf.	E
ac 8917	.	surf.	E
ac 13335	9.7?		E
ac 8892	9.9?		E
ac 13324	9.6		E
ac 13303	9.8?		E
ac 8864	9.9?	faint	E

5·48

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1915phae.proj.1047M

Friday June 4 1915

2.50

Estimates of "e"

Plate No.	Magn.
ac 10984	8.1
ac 5280	8.1
ac 15954	8.3
ac 5185	8.1
ac 10950	8.1
ac 5158	8.2
ac 5127	8.1
ac 10948	8.1
ac 11100	8.2
ac 5101	8.2
ac 15822	d l e
	e l f
ac 5096	8.2
ac 10905	8.1
ac 5047	8.10
ac 15812	d l e
	e l f
ac 5020	8.2
ac 5652	8.1
ac 5239	8.2
ac 10891	8.1
ac 11068	8.2
ac 5640	8.0
af 11077	8.1
ac 16142	d l e
	e l f
ac 5520	8.1
ac 11033	8.0

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1915phae.proj.1047M

Friday, June 4, 1915

γ Cassiopeiae

Plate No.	Magn.	
ac 10984	10.1	
ac 5280	10.8	
ac 15954	10.1	
ac 5185	11.2 ?	faint.
ac 10950	10.6	
ac 5158	m.s. < 10.8	
ac 5127	m.s. < 10.6	
ac 10948	10.3	
ac 11100	9.9	
ac 5101	m.s.? < 10.2	
ac 15822	~~d, v~~ 10.1	Meas. for "e" recorded here by mistake
ac 5096	m.s. < 12.0	
ac 10905	10.6	
ac 5047	m.s.? < 8.7	
ac 15812	10.0	
ac 5020	m.s. < 11.0	
ac 5652	10.1	
ac 5239	11.3	
ac 10891	10.2	
ac 11068	10.0 ?	e.
ac 5640	10.2	
ac 11077	9.8	
ac 16142	9.6	
ac 5520	10.1 ?	faint
ac 11033	10.1	

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1915phae.proj.1047M

Friday, June 4, 1915

Estimates of "e"

Plate No.	Magn.
ac 5503	8.2
ac 5476	8.2
ac 11005	8.1
ac 5422	8.1
ac 5386	d 1 e
	e 1 f
ac 16043	8.1
ac 5357	8.2
ac 10874	8.2
ac 5015	8.3
ac 10859	d 1 e
	e 1 f
ac 4711	8.1
ac 15803	8.3
ac 4618	8.1
ac 10852	8.1
ac 15782	8.1
ac 4524	8.1
~~ac~~	~~e = f~~
ac 14702	e = f
ac 7012	8.1
ac 7005	8.1
ac 14621	d 1 e
	e 1 f
ac 15449	d 2 e
	e 1 f
ac 14567	d 1 e
	e 1 f

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1915phae.proj.1047M

Friday, June 4, 1915

γ Cassiopeiae.

Plate No.	Magn.	
ac 5503	10.1	
ac 5476	10.1	
ac 11005	10.1	
ac 5422	10.1 ?	Very faint.
ac 5386	10.1	
ac 16043	9.4 ?	E.
ac 5357	10.1	
ac 10874	10.9	
ac 5015	11.5 ?	Very doubtful Extreme lim. of vis.
ac 10859	10.7	
ac 4711	10.1	Does not compare well.
ac 15803	9.8	
ac 4618	9.7	
ac 10852	10.7	
ac 15782	9.9	
ac 4524	9.6 ?	Almost sub.
4.22		
4.44		
ac 14702	9.9	
ac 7012	11.5	
ac 7005	11.6 ?	Very doubtful o' n.s.
ac 14621	9.7	
ac 15449	10.8	
ac 14569	9.7	

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1915phae.proj.1047M

Friday, June 4, 1915

Estimates of "e"

Plate No.	Magn.
ac 2964	8.2
ac 14552	8.1
ac 6933	8.2
ac 14549	8.3
ac 3289	8.3
ac 2898	.
ac 14543	8.1
ac 3223	8.3
ac 6898	8.1
ac 14519	d 1 c
	e 1 f
ac 2796	8.1

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1915phae.proj.1047M

Friday, June 4, 1915

η Cassiopeiae

Plate No.	Magn.	
ac 2964	9.6	
ac 14552	9.2 ?	Poor.
ac 6933	m.s.? < 11.5	
ac 14549	9.1	
ac 3289	10.9	
ac 2898	–	Too faint: "Focus plate"
ac 14543	9.3	
ac 3223	10.7	
ac 6898	11.9:	Very doubtful; Extreme limit of vis.
ac 14519	9.6	
ac 2796	9.8	

5.07

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1915phae.proj.1047M

Saturday, June 5, 1915

2,49

Estimates of "e"

Plate No	Magn.
ac 14483	8.3
ac 3204	8.1
ac 6866	8.0
ac 2777	8.2
ac 3168	8.2
ac 14438	d | e
	e | f
ac 6815	8.2
ac 2751	8.2
ac 3127	8.1
ac 15506	d 2 e
	e | f
ac 3078	8.1
ac 15529	d | e
	e | f
ac 3074	8.1
ac 15522	8.2
ac 3060	8.1
ac 15607	d | e
	e | f
ac 3866	8.2
ac 15718	d | e
	e | f
ac 3035	8.2
ac 16228	d | e
	e | f
ac 15387	8.0
ac 7019	8.1

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1915phae.proj.1047M

Saturday, June 5, 1915

γ Cassiopeiae

Plate No.	Magn.	
ac 14483	9.6	
ac 3204	10.3	
ac 6866	11.6	
ac 2777	10.1	
ac 3168	10.1?	Diffuse; does not compare well.
ac 14438	9.8	
ac 6815	m.s. < 11.3	
ac 2751	10.1	
ac 3127	10.1	
ac 15506	10.2	almost enf.
ac 3078	9.9	
ac 15529	10.2	
ac 3074	9.7?	Very doubtful. Lim. of vis. Poor.
ac 15521		enf.
ac 3060	10.1?	almost enf.
ac 15607	10.0	
ac 3866	9.9	
ac 15718	9.8	
ac 3035	9.8?	Very doubtful g² m.s.
ac 16228	9.9?	Poor. 2.
ac 15387	m.s. ? < 9.4	
ac 7019	11.7?	Faint; does not compare well.

3.30

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1915phae.proj.1047M

Saturday, June 5, 1915

3.45

Estimates of "e"

Plate No.	Magn.
ac 3210	8.1
ac 2742	8.2
ac 11113	8.1
ac 8816	8.1
ac 9330	8.2
ac 3157	8.1
ac 11103	8.1
ac 8873	8.1
ac 3014	8.0
ac 11092	8.2
ac 3148	8.0 ?
ac 8910	8.1
ac 3241	7.9 ?
ac 9910	8.1

I can find no evidence of variation of more than .3 of a magnitude in this star. On no plate does it appear fainter than 8.3, and on only one (ac 3241, above) does it appear brighter than 8.0 Moreover on this plate the variable is so close to the corner of the plate that the measure is extremely doubtful. It is my opinion that the variation, if real, is not greater than .2 of a magnitude. Any apparent variation greater than this, I consider due to differences of appearance of image, quality of plate, or position on the plate. See note page 60.

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1915phae.proj.1047M

Saturday, June 5, 1915

7 Cassiopeiae.

Plate No.	Magn.	
ac 3210	.	surf. corner of plate
ac 2742	.	surf. " " "
ac 11113	9.9?	" " "
ac 8816	.	surf. " " "
ac 9330	.	surf. " " "
ac 3157	.	surf. " " "
ac 11103	10.1?	" " "
ac 8873	.	surf. " " "
ac 3014	9.3	" " "
ac 11092	9.8?	Faint " " "
ac 3148	m.s.< 9.4	" " "
ac 8910	.	surf. " " "
ac 3241	m.s.<8.7	" " "
ac 9910	9.6	" " "
ac 11006	9.7?	" " "
ac 9016	m.s.?<10.6	" " "
ac 3953	-	Too faint " " "
ac 9053	10.1?	Very doubtful & 'm.s.?' Corner of pl.
ac 9998	9.3?	Poor corner of plate
ac 11277	10.0?	" " " "
ac 4023	.	surf. " " "
ac 3088	.	Fogged " " "
ac 9262	m.s.?<10.0	" " "
ac 10387	m.s.?<9.4	" " "
ac 4062	10.1?	" " "
ac 3336	m.s.?<10.8	" " "
ac 11258	9.9?	" " "
ac 3083	9.8	" " "

4.22

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1915phae.proj.1047M

Saturday, June 5, 1915

5.52 γ Cassiopeiae

c

Plate No.	Imagn.	
ac 8999	m.s.? < 10.0	*Cor.
ac 10892	.	Too poor.
ac 2876	.	sup. cor.
ac 8990	.	cor.:
ac 3396	m.s.? < 11.3	cor.
ac 10024	.	sup.? cor.
ac 10805	m.s.? < 9.4?	cor.
ac 3891	m.s.? < 9.4	cor.
ac 9155	m.s.? < 9.4?	cor.
ac 4275	.	Sup. cor.
ac 11317	10.2?	cor.
ac 4261	9.8 ?	cor.
ac 11401	m.s.? < 10.5	cor.
ac 4316	.	Too poor: cor.
ac 11422	m.s.? < 10.5	cor.
ac 10748	m.s. < 8.7	cor.
ac 4345	9.2?	Cor.: poor.
ac 11476	m.s.? < 9.4?	cor.
ac 10613	m.s.? < 11.0	cor.
ac 9198	m.s.? < 10.6	cor.
ac 4102	.	Sup. cor.
ac 11247	10.1 ?	cor.
ac 3080	9.8	cor.
ac 9165	m.s.? < 10.8	cor.
ac 4129	.	sup. cor.
(No. questioned on plate) ac 3070	9.9	cor.
ac 11219	.	Too poor; cor.

* extreme corner of plate

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1915phae.proj.1047M

Saturday, June 5, 1915

7 Cassiopeiae

Plate No.	Magn.	
ac 3147	.	Too foov.; cor.
ac 8941	.	sup. cor.
ac 10773	m.s.? < 10.6	cor.
ac 10102	.	sup. cor,
ac 3820	.	sup.? cor.
ac 8925	.	sup. cor.
ac 10251	m.s.? < 10.5?	cor.
ac 4003	.	sup? cor.

6.19

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1915phae.proj.1047M

Monday June 7. 1915

10.17 7 Cassiopeiae

c

Plate No	Magn.	
ac 11915	.	Too poor. Cor.
ac 12206	.	sup? cor.
ac 3982	.	sup? cor.
ac 12080	.	off plate.
ac 11848	.	Too poor.
ac 12088	.	" "
ac 3107	9.8	cor.
ac 9032	.	Too poor.
ac 12042	m.s.? < 11.3	cor.
ac 10363	.	Too poor, cor,
ac 10185	.	Corner containing cor. image broken off and missing
ac 11762	m.s. < 10.2	Cor
ac 12000	.	Cor.
ac 9075	m.s. < 10.0	
ac 8700	9.6	
ac 12735	.	sup? E,
ac 8683	10.0?	Very doubtful; lim. of vis.
ac 12673	.	sup? E.
ac 8632	10.1?	Poor. E.
ac 9040	10.5?	Poor. E.
ac 9004	.	sup? E.
ac 2876	9.3?	Poor, cor.
ac 3007	9.8?	Partly sup. E.
ac 11811	m.s.? < 9.4	E.
ac 5504	10.1?	Poor E.
ac 7186	.	Too faint and poor.
ac 14254	.	sup? E
ac 11820	.	sup? E
ac 14224	.	sup? E

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1915phae.proj.1047M

Monday, June 7, 1915

7 Cassiopeiae

Plate No.	Magn.	
ac 8877	9.7?	
ac 14389	.	C plate; trailed
ac 2975	.	Too poor; fogged
ac 14745	9.7	
ac 7820	.	surf.?
ac 4104	9.7	E.
ac 7791	.	surf.?
ac 14211	9.6?	Poor. E.
ac 5448	9.9?	E.
ac 7752	.	Too poor.
ac 14121	.	surf.?
ac 9806	9.7	
ac 7285	.	Too poor E.
ac 14315	.	" " E.
ac 7265	.	" "
ac 5479	9.7?	Very doubtful E
ac 7242	.	surf.?
ac 14268	.	Too poor E.
ac 7615	.	" " E.
ac 13177	9.5	
ac 8190	.	surf.?
ac 8773	.	Too poor.
ac 3145	.	surf.
ac 9938	9.7	
ac 8065	m.s.? <10.6	E.
ac 8096	.	surf. E.
ac 7857	10.7?	Faint.
ac 8821	9.6?	E.

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1915phae.proj.1047M

Monday, June 7, 1915

γ Cassiopeiae

c

Plate No.	Magn.	
ac 8071	m.s. < 11.0	E,
ac 12038	m.s.? < 11.3	E
ac 8229	m.s.? < 10.4	E,
ac 8837	.	Too poor E.
ac 9870	9.7	E.
ac 14396	9.5?	Poor E.
ac 7670	.	Too poor.
ac 4098	9.6	E.
ac 5467	10.1	E,
ac 11712	m.s.? < 9.4	E,
ac 8799	9.5	E.
ac 7718	.	Too poor.
ac 8021	.	sup.

11.53
3.27

ac 16143	9.8?	almost sup.?
ac 11135	.	off plate
ac 11124	.	" "
ac 10633	.	" "
ac 10947	.	" "
ac 13232	.	Too near edge. T'
ac 8749	.	sup. E,
ac 12006	.	off plate
ac 8757	.	sup. E.
ac 11960	.	off plate
ac 16210	.	sup. E.
ac 8989	.	off plate
ac 9641	.	" "

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1915phae.proj.1047M

Monday, June 7, 1915

γ Cassiopeiae

Plate No.	Magn.	
ac 11783	·	off plate
ac 10857	·	" "
ac 9185	·	" "
ac 9090	·	" "
ac 13323	·	Too near Edge. T'
ac 10978	·	off plate!
3.50		
3.55		
ac 11863	·	off plate
ac 14403	·	Trailed, "c" plate.
ac 12294	10.1?	Very doubtful T' plate ε.
ac 8717	9.8?	ε.
ac 3943	10.1?	Poor.
ac 7257	·	suf?
ac 7176	10.6?	Does not compare well.
ac 11316	10.1	
ac 13515	10.2?	
ac 7083	10.7	
ac 11265	10.1	
ac 3835	-	Too poor.
ac 2957	9.3	
ac 12897	m.s.? <11.5	
ac 10988	10.3?	Poor.
ac 2936	9.3	
4.25		

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1915phae.proj.1047M

Tuesday, June 8, 1915

3.24 γ Cassiopeiae

c

Plate No.	Magn.	
ac 10937	10.5?	
ac 12795	n.s.< 11.8	
ac 2876	9.5	
ac 10923	10.1?	
ac 12773	n.s.< 11.4	
ac 10698	.	Too black,
ac 2795	.	sup? - trailed
ac 10622	n.s.?< 11.4	
ac 2741	9.9	
ac 14437	.	Too faint,
ac 5153	n.s.< 11.0	
ac 5856	9.9?	
ac 6023	10.0	
ac 12192	10.8?	
ac 5732	n.s.< 10.8	
ac 5831	9.7	E.
ac 6952	n.s.?<11.4	
ac 5067	n.s.< 10.6	
ac 5795	10.1	
ac 4989	n.s.<10.6	
ac 12026	n.s.< 10.8	
ac 5787	10.1?	Does not compare well
ac 5962	10.1	
ac 4596	9.4	" " " "
ac 5296	n.s.?<10.5	
ac 6697	n.s.< 10.8	
ac 6621	n.s.< 11.3?	
ac 5291	10.9?	Faint

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1915phae.proj.1047M

Tuesday, June 8, 1915

γ Cassiopeiae

Plate No.	Magn.	
ac 6682	n.s< 10.8	
ac 6527	n.s? < 10.8	
ac 5226	.	sup? def?
ac 12238	10.9	
ac 5713	10.2	
ac 4562	9.4	
ac 11999	n.s< 10.8	
ac 5655	10.1	
ac 4472	9.3	
ac 11951	n.s < 11.0	
ac 4440	9.5	
ac 5624	10.2	Does not compare well.
ac 11917	.	Too poor.
ac 4406	9.5	
ac 5547	10.1	
ac 4373	9.3	
ac 5487	10.1	
ac 5512	10.1	
ac 4330	9.6	
ac 11864	.	Too poor.
ac 10975	10.1	
ac 2929	9.4	
ac 6909	n.s? < 10.8	
ac 7006	n.s? < 11.5	
ac 4321	9.4	
ac 7007	n.s.? < 11.5	
ac 12587	11.0?	Does not compare well
ac 5455	10.1	

4.22

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1915phae.proj.1047M

Wednesday, June 9, 1915

12.20 η Cassiopeiae

e

Plate No.	Magn.	
ac 9760	9.8	
ac 10267	10.2	
ac 8030	11.5?	Very doubtful. Lim. of vis.
ac 12632	11.2?	Poor.
ac 9072	9.7	
ac 16307	9.7?	Poor. Σ.
ac 9692	10.0	
ac 16220	9.5?	
ac 10577	n.s. < 10.8	
ac 9097	.	Too poor.
ac 15533	.	sup.
ac 8255	.	sup.
ac 8701	9.6	
ac 10004	9.4?	
ac 8669	9.9?	Lim. of vis.
ac 9122	.	sup.
ac 9990	9.4	
ac 15573	..	sup.
ac 8625	.	sup.
ac 8809	9.5	
ac 10111	9.7	
ac 10040	9.7	
ac 12535	n.s.? < 10.0	
ac 6904	n.s. < 11.5	
ac 9130	.	Too poor. Σ.
ac 6488	n.s.? < 10.8	
ac 6962	n.s.? < 10.8	
ac 12505	10.2?	

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1915phae.proj.1047M

Wednesday, June 9, 1915

7 Cassiopeiae

Plate No.	Magn.	
ac 5436	10.0?	
ac 12478	10.1	?
ac 12218	11.4[5]:	Very doubtful: lim. of vis.
ac 5215	10.9	
ac 6857	n.s. < 11.4	
ac 12288	10.1	
ac 6845	n.s.? < 11.3	

1.11
2.10

ac 2980	.	off edge
ac 3776	.	Too near edge.
ac 4897	.	off edge
ac 3116	.	" "
ac 3012	.	" "
ac 4412	.	" "
ac 3091	.	" "
ac 3828	.	" "
ac 5070	n.s.? < 8.7	
ac 3051	.	off plate
ac 3867	.	" "
ac 5260	.	" "
ac 3178	.	" "
ac 4152	.	Trailed.
ac 5278	.	off plate.
ac 5411	9.9	
ac 12259	10.1	
ac. 5313	10.7	
ac 6753	n.s. < 12.0?	

c

E.

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1915phae.proj.1047M

Wednesday, June 9, 1915

η Cassiopeiae

Plate No.	Magn.	
ac 11243	.	Too difficult. Trailed
ac 3854	.	off plate.
ac 12877	.	Too faint
ac 3845	.	Too poor.
ac 3532	.	off plate.
ac 5786	.	sup. cor.
ac 3895	.	off plate.
ac 5680	.	" "
ac 4078	.	" "
ac 5630	.	" "
ac 4167	.	" "
ac 6384	.	" "
ac 5538	.	" "
ac 6884	.	" "
ac 6980	.	Too black.
ac 16044	.	sup. Σ.
2.51		
3.05		
ac 5040	n.s. < 10.2	Cor.
ac 6886	.	Too poor.
ac 4433	9.5?	Cor.
ac 4806	.	Too poor Cor.
ac 5497	.	sup. cor.
ac 5169	.	sup. cor.
ac 4465	.	sup? cor.
ac 5119	n.s.? < 10.5	
ac 6869	.	In fogging. Cor.
ac 5238	.	sup? Cor.

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1915phae.proj.1047M

Wednesday, June 9, 1915

7 Cassiopeiae

Plate No.	Magn.	
ac 5554	10,2?	cor.
ac 5286	m.s.? < 10.0	"
ac 7355	m.s.? < 10.4	"
ac 4477	.	Poor cor.
ac 5707	10,5?	Poor, cor.
ac 7115	.	Scratched. cor.
ac 7887	.	Too poor. cor.
ac 6739	m.s.? < 10.2	cor.
ac 7846	m.s.? < 10.6	"
ac 8801	.	Surf. cor.
ac 7827	.	Surf? cor.
ac 7943	.	Too poor; cor.
ac 7942	m.s.? < 11.0	E.
ac 6856	m.s.? < 10.8	cor
ac 7030	m.s.? < 11.4	"
ac 9079	m.s.? < 9.4	
ac 10171	10,0	
ac 8878	9.8 ?	
ac 9595	m.s.? < 9.4	T' plate
ac 8893	10,0 ?	
ac 9605	9.9 ?	
ac 9915	9.5	
ac. 15878	-	surf.
ac 8056	m.s.? < 11.4	
ac 15339	m.s. < 11,3	
ac 10210	10.1?	
ac 9660	10.2?	Does not compare well.
ac 8997	10.2?	

3,40

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1915phae.proj.1047M

Thursday, June 10, 1915

3.14

c

γ Cassiopeiae

Plate No.	Magn.	
ac 7156	m.s.? < 10.0	cor.
ac 5812	.	sup. cor.
ac 7244	.	sup. cor.
ac 5738	.	sup. cor.
ac 8709	.	sup? cor.
ac 5906	9.9?	cor.
ac 7031	m.s.? < 10.2	cor.
ac 5934	.	sup. cor.
ac 7316	.	sup. cor.
ac 6173	.	Too foggy; cor.
ac 6000	.	sup. cor.
ac 7422	.	Foggy.
ac 7922	.	Too foggy.
ac 7060	11.4?	Does not compare well.
ac 11254	10.1	
ac 3310	11.1	
ac 13384	10.2?	
ac 11144	10.1	
ac 3239	10.8?	
ac 7028	11.44 p' 1 V ~~11.54~~	v = 11.48 04 04
	~~11.42~~ V 1 p 11.52	
ac 13349	10.0	
ac 7009	.	Too faint.
ac 11125	10.1	
ac 3156	10.0	
ac 7008	m.s.? < 10.8	
ac 7241	.	Too faint. cor.
ac 6255	.	" " "

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1915phae.proj.1047M

Thursday, June 10, 1915

γ Cassiopeiae

Plate No	Magn.	
ac 7398	.	Too poor. cor.
ac 8689	.	" " cor.
ac 7777	.	off plate
ac 7140	.	sup. cor.
ac 7258	.	off plate
ac 5354	.	sup. cor.
ac 6523	m.s.? < 10.5	cor.
ac 8100	.	sup. cor.
ac 7772	.	Too poor; cor.
ac 5437	.	sup. cor.
ac 7700	.	Trailed
ac 6623	m.s. < 10.0	cor.
ac 8090	.	cor.
ac 8747	9.6?	Poor.
ac 15740	9.9?	
ac 10032	.	sup.
ac 9010	-	Too poor.
ac 9129	11.4?	Does not compare well.
ac 9036	10.9?	
ac 9123	m.s.? < 11.4	
ac 15983	9.8	
ac 16029	9.5?	
ac 16132	9.6	
ac 8865	9.8	
ac 15530	10.6?	
ac 9962	9.6	
ac 15515	10.8?	
ac 15486	10.8	

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1915phae.proj.1047M

Thursday, June 10, 1915

† Cassiopeiae

	Plate No.	Magn.	
c	ac 14655	9.1?	E.
	ac 15221	·	sup? E.
	ac 4210	9.6	
	ac 15411	·	sup? E.
	ac 15431	n.s.? < 10.5	E.
	ac 15270	·	sup. E.
	ac 15444	·	sup. E.
	ac 7335	10.2?	
	ac 7304	·	sup.
	ac 14533	9.6?	E.
	ac 14620	9.1	
	ac 15499	9.8	

4.30

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1915phae.proj.1047M

Friday, June 11, 1915

10.45 γ Cassiopeiae

Plate No.	Magn.	
ac 15564	·	sup? E.
ac 11769	n.s.? < 9.4	
ac 14529	9.3	
ac 7722	10.5?	
ac 4144	9.7	
ac 14141	10.9?	
ac 13522	10.2?	Does not compare well
ac 14517	·	sup. E.
ac 15712	·	Trailed.
ac 11781	11.2	
ac 15754	* ~~10.5~~	sup.
ac 7771	10.5	
ac 14433	·	sup. E.
ac 14163	·	Too faint.
ac 14431	·	Too poor E.
ac 15893	·	sup. E.
ac 16131	9.7?	
ac 4228	9.9	

*Recorded in wrong place

11:10
4:12

ac 7276	10.5?	Difficult; does not compare well
ac 11750	11.1?	" " " " "
ac 14190	10.1?	" " " " " m>g 1.2
ac 3136	10.0	
ac 11090	10.1	
ac 13283	10.1?	
ac. 3086	9.8	
ac 11040	10.1	

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1915phae.proj.1047M

Friday, June 11, 1915

γ Cassiopeiae

	Plate No	Magn.	
	ac 13237	9.6?	
	ac 14276	10.1?	
	ac 11800	m.s.? < 10.6	E.
	ac 3079	9.8	
	ac 11020	10.1?	
	ac 8022	11.7?	
	ac 4269	.	Trailed.
	ac 13320	10.2?	
	ac 4259	9.8	
	ac 13554	.	Too faint.
	ac 11894	.	" " T'
	ac 11200	.	suf. E T'
	ac 13333	.	Too near edge. T'
	ac 11181	9.7?	Doubtful E. T'
	ac 11879	.	suf? T'
	ac 12298	10.2?	E T'
	ac 13307	.	suf? E T'
4.48			
4.59			
	ac 13729	.	suf.
	ac 6569	m.s.? < 10.0	Cor.
	ac 7180	.	suf?
	ac 7677	.	Too faint; Cor.
	ac 6850	m.s.? < 10.8	Cor.
	ac 7984	m.s.? < 11.0	Cor.
	ac 6830	m.s.? < 10.5	Cor.
	ac 7858	m.s.? < 10.6	Cor.
	ac 7173	m.s.? < 10.0	Cor.
5.10	ac 8761	.	suf. Cor.

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1915phae.proj.1047M

Saturday, June 12, 1915

11.55 γ Cassiopeiae

Plate No.	Magn.	
ac 5175	n.s.? < 10.5	Cor.
ac 6875	n.s.? < 9.4	Cor.
ac 6676	n.s. < 10.6	
ac 10033	n.s. < 10.5	
ac 12322	9.8	
ac 13451	10.1	
ac 13413	10.2	
ac 14397	9.9 ?	Poor.
ac 12179	.	sup?
ac 4576	9.4	
ac 13277	10.1?	Does not compare well
ac 4471	9.4	
ac 12007	n.s.? < 10.8	
ac 13270	10.1?	Does not compare well
ac 14284	10.2	
ac 13364	10.1	Does not compare well
ac 11190	10.0	
ac 4355	9.7	
ac 11962	n.s.? < 11.8	
ac 10020	.	Cor. "4" plate
ac 9091	.	Too poor "7" plate
ac 13359	.	" " "7" plate.
ac 9497	.	Does not cover "T' plate.
ac 9561	.	Too near edge T' "
ac 10575	.	" " " T' "
ac 9096	.	Too poor.

12.35

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1915phae.proj.1047M

Saturday, June 12, 1915

2.21 γ Cassiopeiae

Plate No.	Magn.	
ac 7088	m.s.? < 10.8	
ac 8608	9.8	
ac 11111	10.0	
ac 12398	9.8	
ac 8537	9.6	
ac 8294	m.s.? < 10.6	
ac 12379	9.8 ?	Poor.
ac 8279	.	surf?
ac 12326	10.1	
ac 10285	m.s.? < 10.2	T' plate
ac 13627	.	surf? T' plate.
ac 9044	.	Too poor T plate. E.
ac 13326	10.1	Does not compare well.
ac 4335	9.5	
ac 10013	9.7 ?	9m. dec.
ac 14191	10.1	
ac 14270	10.1	
ac 7998	m.s.? < 10.2	
ac 9939	9.8	
ac 4286	9.6	
ac 13312	9.9	
ac 7769	10.1?	
ac 14145	.	surf?
ac 11921	m.s.? < 11.0	
ac 4172	9.9	
ac 9833	9.9?	γ veiled
ac 7712	10.1	
ac 7696	10.2 ?	
2.58 ac 9658	* 10.0?	Doubtful. Does not compare well near dec.

* Reject.

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1915phae.proj.1047M

Monday, June 14, 1915

4.10 γ Cassiopeiae

Plate No.	Magn.	Yellow
ac 13476	v o g^2	
ac 15656	"	Too foor. E.
ac 16200	"	Too near Edge
ac 8969	"	Too foor.
ac 16332	"	Too near edge
ac 2809	g 3 v ? v 2 N	
ac 14371	h 1 v v 3 k	
ac 15670	h 3 v v 2 k	
ac 15637	d' 4 v ? v 1 g	
ac 13475	"	Too foor. E. defective.
ac 14369	g 3 v v 4 g^2	
ac 16176	"	off plate
ac 5139	m.s < m' ?	
ac 15622	v o h	
ac 15651	g 2 v v 1 N ?	
ac 16184	"	Too near edge

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1915phae.proj.1047M

Monday, June 14, 1915

γ Cassiopeiae

Plate No.	Magn.	Yellow
ac 14360	.	Too poor E.
ac 15830	g 4 V V 2 g² ;	
ac 13381	g 1 V V 1 N?	
ac 2810	g 3 V ? V 1 g²	Cor.
ac 14862	V o k ?	
ac 15671	g 2 V V 3 g²	
ac 14670	g 1 V V 4 g²	
ac 16102	d' 1.5 V V 4 g	
ac 16192	g 1 V V 4 g²	
ac 15861	k 1 V V 3 k	

4.57

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1915phae.proj.1047M

Monday, June 14, 1915

5.37

γ Cassiopeiae

Plate No	Magn.	
ac 3916	10.1	
ac 7145	11.1	
ac 11158	10.1?	Trailed
ac 12558	10.7	
ac 8814	9.7	
ac 5902	10.0?	
ac 8760	9.5	
ac 13526	10.3	
ac 7930		Too poor
ac 11154	10.0	
ac 8682	9.8	
ac 9101	10.9	
ac 5892	9.9	
ac 12546	10.7	
ac 8637	10.0?	Does not compare well
ac 7096	11.1	
ac 11137	10.0	
ac 12622	11.5?	
ac 11291	10.0?	Does not compare well
ac 12543	10.6	
ac 5789	10.2?	
ac 9065	10.7	
ac 7227	10.8	
ac 8620	10.1	

(3m out)
6.00

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1915phae.proj.1047M

Thursday, June 17, 1915

3.45 γ Cassiopeiae

	Plate No.	Magn.	
	ϕ^a 6821	11.9	E_1
	ϕ^a 6609	.	Does not cover.
	ϕ^a 6832	.	" " "
	ϕ^a 6816	11.9?	Doubtful. E. ϕ and q used; o' off edge
Ref. almost sup.	ϕ^a 6823	11.8?	" " " " " " " " "
	ac 12528	10.6	
	ac 5780	10.1	(Star in too faint companion)
	ac 12611	.	Too poor; faint
	ac 11255	9.9	
	ac 9060	10.7	
	ac 5745	10.1?	Does not compare well.
	ac 7171	10.7	
	ac 9031	10.6	
	ac 11842	n.s.< 11.4	
	ac 7676	10.1	
	ac 6645	11.6?	o' n.s.
	ac 13250	9.9	
	ac 6635	11.9?	Faint
4.18			
4.26			
	ac 11175	n.s.<9.4	
	ac 7646	9.9?	Poor.
	ac 13233	9.6	
	ac 13734	.	sup.
	ac 8118	11.8?	Lim. of vis.
	ac 6616	.	Too faint & blurred
4.30			

the c plates measured: "c" recorded by mistake for a.

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1915phae.proj.1047M

Friday, June 18, 1915

11.57 γ Cassiopeiae

	Plate No.	Magn.	
	I 29594	9.2	
	I 29553	9.1 ?	E.
	I 29627	9.4	
	I 31206	.	Off plate
12.05	I 32421	10.1	
12.10	I 29643	9.6?	Does not compare well. E.
	I 29659	9.8	
	I 36159	11.5	T' plate
	I 29698	9.6?	E. g and g' used; g^2 off plate
	I 31198	9.1	
	I 36141	m.s? < 11.0	E T' plate
	I 33675	11.5	T' plate
	I 36158	m.s < 10.8	
	I 31169	9.6?	E. g and g' used; g^2 off plate
	I 31032	10.0?	E. g and g' used; g^2 on extreme edge
	I 34402	11.6	
	ac 6744	11.7?	Faint
	ac 6681	.	Too faint and indistinct
	ac 12302	10.1?	E. Faint
	ac 9550	10.2	
	ac 13698	11.4	
	ac 6551	11.2	
12.36			
12.45			
	ac 5374	9.8 ?	E.
	ac. 7894	.	Too poor. T' plate
	ac 12193	.	Surf. cor.
	ac. 4456	.	Broken Plate missing

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1915phae.proj.1047M

Friday, June 18, 1915

γ Cassiopeiae

	Plate No.	Magn.	
v	ac 16378	.	Brolan: Plate missing.
	ac 7951	.	" " "
	ac 4513	.	" " "
	ac 10745	.	" " "
	ac 2908	.	" Thrown away.
	mc 4240	9.1	
	mc 6038	11.4	
	mc 6204	10.6	
	mc 6243	10.3-	
	mc 3707	g 3 v	Yellow
		g 2 h	
			Yellow
	mc 6119	g² 2 v	
		v 1 g'	
	mD 6119	m.s. < 11.5-	
	mD 3707	10.4?	
1.12			
1.58			
	mc 2027	10.5	T' plate.
	I 35506	10.1?	T' plate. Poor
	ac 9242	11.5-	
	ac 7307	10.3	
	ac 12809	m.s. < 11.4	

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1915phae.proj.1047M

Friday, June 18, 1915

γ Cassiopeiae

Plate No.	Magn.	
ac 4128	10.0	
ac 11734	10.8	
ac 9202	11.5	
ac 6501	n.s.? < 11.0	
ac 12836	12.8?	Lim. of vis.
ac 13642	10.8	
ac 4092	10.1	
ac 6479	10.4 ?	
ac 12703	11.44 p' 1 v	v = 11.48 ± .04 .04
	v 1 p 11.52	

2.15
2.34

ac 7885	.	Too far. T' Plate
ac 6642	.	sup.? E.
ac 8001 *	11.2?	~~Def~~? Defective image? Elongated and brighter at one end than at other
ac 12170	11.2?	Scratch over n'
ac 4296	9.5	
ac 2899	.	Does not cover.
ac 3273	n.s.? < 10.6	
ac 10132	9.6	
ac 3791	.	Broken. Can be obtained if necessary
ac 6151	.	Broken in region of var.
ac 11724	10.9	
ac 12066	12.1?	s' not seen
ac 9195	.	sup.? Trailed
ac 13549	10.2	

* Reject. 97 m Nov 10, 1915

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1915phae.proj.1047M

Friday, June 18, 1915

7 Cassiopeiae

Plate No.	Magn.	
ac 7262	10.3?	Does not comfare well.
ac 11400	10.2	
ac 6046	9.9	
ac 12674	11.2	
ac 6730	12.1?	Lim. of vis. ½ m.s?
ac 11302	10.1	
ac 9168	11.7?	Lim. of vis. 0' m.s.
ac 5969	9.9	
ac 7252	10.9?	
ac 12663	11.4	
ac 3956	m.s? <9.4	
ac 9167	.	Too faint
mθ 2027	10.1 ✻	T' plate
ac 13502	h, v v 2N	Yellow.
ac 16341	.	Off plate. Yellow

3.18

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1915phae.proj.1047M

Monday, October 18, 1915

4.40 γ Cassiopeiae

Plate No.	Magn	
ac 1161	12.2 ?	
ac 11983	.	Off Plate
ac 1198	.	Too low; corner.
ac 13261	.	Off Plate.
ac 12012	.	" "
ac 11873	.	" "
ac 48	10.6 ?	
ac 703	10.1	
ac 2327	n.s. < 12.2	
ac 1751	n.s. < 8.7	

5.08

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1915phae.proj.1047M

Wednesday, October 20, 1915

10.40

γ Cassiopeiae

Plate No.	Magn.	
ac 5773	10.3 ?	E.
ac 1207	.	Too poor
ac 11775	m.s. < 10.2	
ac 4245	9.6	
ac 28787	.	sup
ac 1942	10.0 ?	
ac 978	m.s. < 9.4	
ac 9015	.	~~Too~~ off plate.
ac 11824	.	" "
ac 6053	.	sup.
ac 6063	10.0 ?	E.
ac 3937	.	off plate.
ac 16228	9.6	
ac 588	.	Too poor
ac 1703	.	" " E.
ac 1866	10.1 ?	E.
ac 1978	~~11.1~~ 10.9 ?	E.
ac 2046	11.2 ?	E.
ac 1986	10.9 ?	E.
ac 2143	m.s. ? < 11.3	
ac 11219	.	Too poor E.
ac 16441	.	off plate

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1915phae.proj.1047M

Wednesday, October 20, 1915

7 Cassiopeiae

Plate No.	Magn.	Yellow Plates
ac 16184	n.s. < g.	
ac 15651	g 0 V 2	
ac 5139	n.s. < n	
ac 13381	.	Surf.
ac 16332	g 2 V 2 V 1 N 1	
ac 15830	g 5 V V 1 g 2	
ac 15670	g 1 V V 3 k	
ac 15622	h 1 V V 3 k	
ac 14371	R 1 V r 2 k	
ac 13475	h 2 V 2 V 1 N	
ac 15637	d' 5 V 2 V 1 g 1	Very poor, 2.
ac 14360	d' 1 V 2 V 1 f 1	" "

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1915phae.proj.1047M

Wednesday, October 20, 1915

γ Cassiopeiae

Plate No.	Imagn	Yellows Plates
ac 2810	g² 1 V 2 V 1 N	Σ.
ac 16200		Too poor Σ.
ac 16502	ns. < g'	
ac 15656	h 1 V 2 r 2 k	Poor.
ac 13502	h 3 V V 1 N	
ac 14369	h 1 V V 3 k	
ac 14670	d' 3 V V 1 g	
ac 14862	h 4 V V 1 N	
ac 15671	g 2 V V 3 g²	h defective
ac 15861	h 1 V V 4 k	
ac 16102	f 2 V V 1 d'	

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1915phae.proj.1047M

Wednesday October 20, 1915

γ Cassiopeiae

Plate No.	Magn.	Yellow Plates
ac 16192	d' 5 ✓	
	✓ 1 g	
12.09		
12.25		
ac 16341		off plate.
ac 13476	h 1 V	
	✓ 1 N	2

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1915phae.proj.1047M

Wednesday, October 20, 1915

7 Cassiopeiae

	Plate No.	Magn.	
e			
♀	10006	10.6 ?	
♀	11445	11.2	E.
♀	11573	.	Too near E.
♀	11639	11.9 ?	E.
♀	11941	.	off plate.
♀	4495	‡ ~~10.7~~	Does not comfare well
♀	6894	.	off plate.
♀	9940	10.6 ?	Does not comfare well
* ♀ B	71	9.6	h used E.
♀	9337	12.2 ?	Extreme edge
♀	9781	.	Too near edge
♀	13291	9.2	E.
♀	13609	10.0	
♀	29642	10.1	

12.55

* Recorded on ♀ by mistake

‡ Reject. See p. 120. Wrong object measured? or wrong number recorded?

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1915phae.proj.1047M

Thursday October 21, 1915

3.50

γ Cassiopeiae

	Plate No.	Magn.	
*B	1976	10.7	Does not compare well
ϑ	11439	11.1	E,
ϑ	24084	.	Too difficult - trailed
ϑ	24085	.	" " "
ϑ	9988	10.6 ?	Doubtful. E.
ϑ	7451	10.7 ?	E.
ϑ	9379	12.1 ?	E.
ϑ	15506	.	Too poor,
ϑ	15707	.	" "
ϑ	15891	9.6	E,
ϑ	16223	8.9	E.
ϑ	16522	9.2 ?	E.
ϑ	17863	n.s. ? < 10.2	
ϑ	13808	10.2	Does not compare well
ϑ	12030	12.9 ?	" " " " faint
ϑ	11726	12.2	
ϑ	9121	n.s. < 11.8	
ϑ	6893	.	Does not cover.
ϑ	12184	.	Too near edge
ac	10505	.	m plates - too difficult
ac	9043	.	" " " "
ac	8064	.	" " " "
ac	8063	.	" " " "
ac	7806	.	" " " "
ac	11889	.	" " " "
ac	12654	.	" " " "
ϑ	12061	12.7 ?	

*Recorded as ϑ by mistake

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1915phae.proj.1047M

Thursday, October 21, 1915

γ Cassiopeiae

	Plate No.	Magn.
c	ac 2742	sup. E.
	ac 95-8	sup. E.
	ac 2718	sup. E.

4.34

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1915phae.proj.1047M

Friday, October 22, 1915

3.15 γ Cassiopeiae.

Plate No.	magn.	
C 6367	9.5	
C 5869	12.2	
ac 16584	.	sup?
ac 16718	m.s. < 11.3	
ac 16719	m.s. < 10.0	
ac 16805	.	off plate.
ac 16723	.	Too poor Σ.
ac 16734	m.s. < 10.6	
ac 16637	.	Too difficult; fogged
ac 16611	m.s. < 11.0	
ac 16660	m.s. < 10.5	Σ.
ac 16851	m.s. < 10.8	
ac 16850	11.5	
ac 16708	.	Does not cover.
ac 16820	-	" " "
ac 16821	11.5 ?	faint.
ac 16830	.	sup.
ac 16831	11.5	
ac 16613	.	Σ.
ac 16601	.	Σ.
ac 16598	.	off plate.
ac 16733	.	Σ.
ac 16653	.	off plate.
ac 16649	.	Too difficult; fogged
ac 16722	.	off plate.
ac 16691	.	" "
~~ac.~~	~~m.s. < 10.6~~	
ac 16799	11.6 ?	Difficult; does not compare well o'>h?
ac 16592	.	off plate.

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1915phae.proj.1047M

Friday, October 22, 1915

7 Cassiopeiae

Plate No.	Magn.	
ac 16612	.	Off plate.
ac 16817	.	" "
ac 16744	.	Too foggy. E.

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1915phae.proj.1047M

Friday, October 22, 1915

Plate No		
ac 16783	Magn. $> n.s. < m$	Yellow plates
ac 16773	$n.s. < m$	
ac 16553	$n.s. < g^2$	
ac 16765	·	Too poor. E.

$4.1\,8^4$

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1915phae.proj.1047M

Monday, October 25, 1915

η Cassiopeiae

Plate No.	Magn.	
v 4495	.	Off plate.
a 11941	.	Too poor.

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1915phae.proj.1047M

Wednesday, October 20, 1915

S Ursae Majoris

Plate No.	Magn.	
AC 9444	m.s.? < 11.0	Measured by S.R. Book I, p. 19. as "9.7 - difficult" Called "too difficult" on p. 33. Probably a defect was measured the first time. The only object at this position on the film side of the plate is a faint blur, of about the 11.1 magn.

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1915phae.proj.1047M

Thursday, March 30, 1916

γ Cassiopeiae

Plate No.	Magn	
ac 15499	10.0 2	E. Image superposed very slightly on star c, but certainly appears as bright as g^2

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Circumpolar Variables

Estimates of Brightness

S Bootis

Tuesday February 1, 1916

3.55

Plate No.	Magn.	
ac 15143	10.3	Star q > m? or def. in Haco fg.?
ac 8755	n.s. < 10.1	
ac 15125	.	off edge.
ac 9504	10.3	
ac 4667	12.3	f
ac 8811	n.s.? < 10.7	
ac 4001	.	not on plate
ac 9546	.	" " "
ac 4022	.	" " "
ac 8834	n.s. < 10.7	
ac 9549	n.s. < 10.7	
ac 4134	.	not on plate
ac 4775	n.s. < 10.7	
ac 8743	.	not on plate
ac 9347	10.3	
ac 4754	12.7?	f
ac 9447	9.4	
ac 8616	.	Too poor. E.
ac 4875	n.s. < 12.8	
ac 3940	10.4?	f
ac 15209	11.3	Comp.*

4.34

* See note on fly-leaf.

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1915phae.proj.1047M

Wednesday, February 2, 1916

S Bootis

3.20

v

Plate No.	Magn.	
ac 4601	m.s. < 11.7	
ac 4560	11.4	
ac 9611	11.6?	Lim. of vis., doubtful.
ac 16261	12.3?	Very doubtful; lim. of vis.
ac 8534	11.2	
ac 15157	m.s. < 10.7	
ac 8564	m.s. < 10.7	
ac 15109	10.2?	e m.s f
ac 3803	m.s. < 10.7	
ac 14137	9.9	
ac 3883	m.s. < 10.1	
ac 8567	10.6	f
ac 3893	m.s. < 11.1	
ac 8583	10.3?	f
ac 3994	11.6	10.6 f
ac 9295	10.5	Plate unevenly fogged. Var. on edge of fogging.
ac 4796	m.s. < 11.7	
ac 4812	~~m.s.~~ < 12.8	Too faint

3.50

4.05

ac 1498		Too poor. E
ac 1820	10.6	E
ac 261	m.s. < 11.7	
ac 7617	m.s. < 11.4	
ac 1449	m.s. < 11.7	
ac 1760	10.2?	f
ac 262	m.s. < 12.4	
ac 16168	11.4	

G.F.M. Feb. 25, 1916

* Reject. This magn. certainly wrong. Probably wrong unit was recorded. See p. 162 True magn. 10.6.

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1915phae.proj.1047M

Wednesday, February 2, 1916

S Bootis

Plate No.	Magn.	
ac 6268	10,6	Comp. v. darker than c. stars
ac 1419	< 12.8	too faint
ac 7556	n.s. < 10.7	
ac 1417	n.s. < 13.3	
ac 6372	10.2	
ac 3131	.	e plate, too difficult.
ac 7508	n.s. < 11.7	
ac 16385	n.s. < 12.4	
ac 1721	10,3 ?	f
ac 329	10.0?	d too near edge. e + f used. e f
ac 1343	n.s. < 9.5	
ac 7837	10.9	f i

4.30

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1915phae.proj.1047M

Thursday February 3, 1916

2.45 S Bootis.

	Plate No.	Magn.	
	ac 1323	m.s. < 11.4	
	ac 432	m.s. < 11.1	
	ac 1711	m.s. < 11.4	
	ac 6349	9.9	
	ac 7809	m.s. < 10.7	
	ac 1139	10.1	
	ac 14017	11.2	Comp.
	ac 7736	.	Too poor
	ac 6331	10.2	
	ac 15163	10.7	
	ac 15119	10.2	
	ac 15157	10.5	
	ac 13111	m.s. < 12.8	
	ac 16520	m.s. < 11.1	
	ac 8492	12.4 ?	pf
	ac 2348	m.s. < 12.4	
	ac 8457	m.s < 12.4	
*	ac 16686	10.1	Comp.
	ac 9712	,	Too poor.
	ac 2304	m.s. < 12.4	
	ac 9818	m.s. < 11.1	
	ac 2238	m.s. < 11.7	
	ac 16679	10.1 ?	pf
	ac 10027	10.3	
	ac 2122	m.s.? < 12.4	Too poor.
	ac 8462	m.s. < 11.7	
	ac 10271	10.9	
	ac 777	9.7	

* Assumed to be 16686, as 10686 does not occur, and this magn. agrees with that for 16686. Moreover ac 16686 was found among plates measured, but was not entered anywhere. G.F.H. Feb. 25, 1916 See p. 162.

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1915phae.proj.1047M

Thursday, February 3, 1916

S Bootis

Plate No.	Magn.	
ac 10498	* 10.6?	f
ac 10341	10.6	
ac 1982	.	Too poor.
ac 1925	n.s.? < 10.4	Too poor. 2
ac 10415	12.3?	f
ac 10469	n.s. < 12.4	
ac 16965	.	Off E.
ac 1861	.	Fogged in region of var.
ac 1601	n.s. < 10.4	
ac 16862	.	Too poor.
ac 1551	n.s. < 11.4	
3.49		
3.54		
ac 2923	n.s. < 11.4	
ac 3099	12.9	f
ac 6070	n.s. < 11.4	
ac 5171	9.7	
ac 5037	10.6	
ac 2695	10.3	
ac 6520	11.4	
ac 8040	9.6	p
ac 6603	n.s. < 11.4	
ac 3728	.	Too poor
ac 5065	.	Off Edge.
ac 767	9.7?	E
ac 3188	11.1?	E
ac 5018	.	Too hazy & faint to compare
ac 6031	n.s. < 10.7	

*Reject, Intended to record 11.6? Object near. See p. 163 eq 7 m. Feb. 25 1916

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1915phae.proj.1047M

Thursday February 3, 1916

S Bootis

	Plate No.	Magn.	
v	ac 3774	m.s. < 10.1	
4.07			
4.09			
	ac 2916	m.s. < 11.7	
	ac 2682	10.2	ε
	ac 7396	10.4 ?	comp.
	ac 6706	m.s. < 11.4	
	ac 5233	9.9	
	ac 2833	m.s. < 11.1	
	ac 5206	10.1	
	ac 994	m.s. < 10.7	
	ac 6580	11.3 ?	f
	ac 2768		Too poor ε.
	ac 2827		" " ε
	ac 5257	10.3	f
	ac 6930	m.s. < 11.1	
	ac 5327	m.s. < 10.7	
	ac 6185	m.s. < 10.1	
	ac 3641	m.s. < 10.7	
	ac 5827	m.s. < 12.4	
	ac 8370	m.s. < 10.4	
	ac 5986	m.s. < 12.4	
	ac 3743		Too poor.
	ac 8384	m.s. < 11.4	
	ac 1648		Too poor
	ac 1652	m.s. < 10.4	
	ac 3769	m.s. < 11.4	
	ac 6097	11.8	

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1915phae.proj.1047M

Thursday, February 3, 1916

S Bootis

Plate No.	Magn.		
ac 3487	n.s. < 11.1		
ac 6197	n.s. < 11.1		
ac 3531	11.0		E
ac 749	"	Too poor	E.
ac 3606	"	" "	E.
ac 6471	10.3		
ac 1113	9.9		E
ac 6548	n.s. < 10.7		
ac 2702	10.3 ?		E.
ac 6233	10.7		

4.35

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1915phae.proj.1047M

Friday, February 4, 1916

3.15 S Bootis

	Plate No	Magn.	
✓	ac 8392	m.s < 12.4	
	ac 16433	.	Off edge
	ac 11107	11.5	Comp.
	ac 10720	m.s. < 10.4	
	ac 2550	9.6	E
	ac 10759	* 10.9?	f
	ac 8510	11.6	
	ac 2459	11.5	
	ac 10642	11.5?	f
	ac 8495	m.s? < 11.7	Too poor
	ac 10673	* 10.7?	f
	ac 854	10.6?	f
	ac 10618	m.s. < 11.4	
	ac 16581	.	Off plate
	ac 857	10.3?	Image fea. - all images double, but ~~that~~ of var. is brighter than the other. E i
	ac 10579	m.s. < 11.4	
	ac 1634	.	Too poor. E
	ac 10529	m.s. < 11.4	
	ac 2414	m.s. < 11.4	
	ac 11272	m.s. < 12.4	
	ac 11358	.	Too poor, trailed.
	ac 11680	11.5	f
	ac 11721	m.s < 10.1	
	ac 11770	9.4	
	ac 11531	m.s. < 11.1	
	ac 6322	10.4	

* Reject. See p.162 A.J.M. Feb. 25, 1916

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1915phae.proj.1047M

Friday, February 4, 1916

S Bootis

Plate No.	Magn.	
ac 13013	12.0	
ac 671	11.4 ?	E
ac 13061	.	Too poor - too black.
ac 6439	10.3	
ac 7387	10.5	
ac 13141	.	Too poor
ac 12449	n.s. < 10.1	
ac 912	n.s. < 10.4	
ac 12437	n.s. < 11.4	
ac 6893	n.s. < 11.1	
ac 16267	.	off edge
ac 7446	11.1	
ac 12445	n.s. < 11.4	
ac 11856	10.6	
ac 8218	n.s. < 11.4	
ac 11967	n.s. < 11.4	
ac 12023	n.s. < 10.1	
ac 2630	9.4 ?	E
ac 8208	n.s. < 11.4	
ac 12393	10.7	
ac 12396	11.0	
ac 2538	10.0	
ac 11556	n.s. < 12.4	
ac 11646	n.s. < 10.7	
ac 8200	n.s. < 11.1	
ac 11482	n.s. < 12.4	
ac 11491	n.s. < 14.0	

4.28

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1915phae.proj.1047M

Friday. February 4, 1916

4.54

S Bootis

	Plate No.	Magn.		
	ac 14046	10.3 ?	e not seen.	f i
	ac 13168	m.s. < 12.8		
	ac 13980	12.6?	m not seen.	f
	ac 13175	m.s. < 10.7		
	ac 14106	9.4	Comp.	
	ac 14~~10~~06	10.1	Comp.	
	ac 14170	10.2	comp.	
	ac 14101	10.0		
	ac 14358	11.0		f
	ac 14287	~~9.~~ 10.4?		f
	ac 13214	m.s. < 10.4		

5.04

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1915phae.proj.1047M

Saturday, February 5, 1916

2.37 S Bootis

Plate No.	Magn.	
ac 12430	·	Too poor.
ac 16226	12.4	
ac 13201	m.s. < 10.7	
ac 13229	m.s. < 10.7	
ac 13174	·	Too poor. E
ac 13161	'	Too poor; trailed
ac 16463	m.s. < 10.4	
ac 13129	m.s. < 10.7	
ac 13132	m.s. < 11.1	
ac 16738	9.5 ?	f
ac 16587	m.s. < 10.7	
ac 15025	9.8	
ac 13203	m.s. < 10.1	
ac 14975	9.8	
ac 13887	m.s. < 12.4	
ac 14736	12.8 ?	f
ac 14916	10.2	
ac 1123	9.4	
ac 1604	m.s. < 11.1	
ac 14016	m.s. < 10.4	
ac 13871	m.s. < 11.4	
ac 15335	m.s. < 11.4	
ac 14037	10.6	
ac 8164	m.s. < 11.4	
ac 15094	·	off Edge.
ac 9153	m.s. < 10.7	
ac 7218	9.4	Comp. (v hazy)
ac 3025	m.s < 12.4	

3.07

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1915phae.proj.1047M

Saturday, 5/6 February 5, 1916

3.33 S Bootis

	Plate No.	Magn.	
V	ac 16517	.	Too poor
	ac 8725	.	Too poor E.
	ac 6985	.	Too poor E.
	ac 2820	n.s. < 11.1	
	ac 6967	.	Too poor E.
	ac 5960	n.s. < 11.7	
	ac 8295	n.s. < 11.4	
	ac 5887	.	Too poor E.
	ac 8241	n.s. < 12.2	
	ac 5819	n.s. < 12.4	
	ac 8207	n.s. < 12.8	
* See note p.164	*ac 5769	.	Too poor E.
	ac 16150	11.2	E
	ac 8179	n.s. < 11.1	
	ac 5756	n.s. < 11.1	
	ac 5669	n.s. < 12.2	
	ac 6158	n.s. < 10.7	
	ac 14242	10.3	
	ac 14197	10.3	
	ac 1669	.	Off edge
	ac 13991	11.5	f
	ac 15216	n.s. < 11.4	
	ac 4176	.	Off edge.
	ac 15184	11.2?	
	ac 13697	n.s.? < 12.4	Too poor, and faint f. seen
	ac 13842	n.s. < 11.4	
	ac 15246	n.s.? < 11.7	
	ac 4656	.	Off edge.

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1915phae.proj.1047M

Saturday, February 5, 1916

S Bootis

Plate No.	Magn.	
ac 16016	10.0	
ac 4695	n.s. < 11.1	
ac 16367	n.s. < 12.2	e' > e ?
ac 2457		Too poor
ac 8429	n.s. < 11.4	〃 ~~Film damaged.~~
ac 6273	10.5	e
ac 16290	12.6	e' = e ?
ac 2383	n.s. < 11.7	
ac 8352		Too poor
ac 6207	10.4 ?	f
ac 6094	11.3	
ac 2331	n.s. < 11.7	Trailed.
ac 8347	n.s. < 10.7	
ac 6058	12.0 ?	f
ac 8296	n.s. < 12.4	e' > e ?
ac 0994	< 11.7	Too faint + poor n.s?
ac 2266	n.s. < 11.4	
ac 16233	12.5	
ac 2277	n.s. < 11.1	
ac 3367	10.2	
ac 7393	10.9	
ac 9367	10.2	
ac 17134		off plate.
ac 3272	10.3	
ac 9329	10.3	
ac 9256	10.9	
ac 7342	9.7	Comp.
ac 16981		Im. defective

4.41

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1915phae.proj.1047M

Monday February 7, 1916

12.17 S Bootis

Plate No.	Magn.	
ac 1281	n.s. < 11.4	
ac 11106	11.2?	E
ac 7699	n.s. < 10.4	
ac 10655	n.s. < 11.1	
ac 1229	11.3	E
ac 4940	.	Too faint
ac 1248	11.4	E
ac 7687	n.s. < 10.4	
ac 10630	n.s. < 11.4	
ac 7685	.	Too faint
ac 7773	.	Too faint and poor
ac 5603	n.s. < 11.1	
ac 15013	.	Off edge.
ac 11404	n.s. < 11.4	
ac 1093	.	Image of v scratched
ac 1534	n.s. < 10.7	
ac 5831	.	Im. of v too near def. in film
ac 1520	n.s. < 11.4	
ac 11307	n.s. < 12.4	
ac 14757	n.s. < 11.7	
ac 11353	.	Trailed
ac 7729	n.s. < 10.4	
ac 5788	10.0	E
ac 1562	n.s. < 10.7	
ac 7765	n.s. < 10.7	
ac 13625	.	Off edge.
ac 1090	.	Long trails.

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1915phae.proj.1047M

Monday, February 7, 1916

S Bootis

Plate No.	Magn.	
ac 4933	m.s. < 11.4	
ac 7683	.	Too poor
ac 13532	.	off edge
ac 896	.	Too poor e.
ac 4920	m.s. < 12.4	
ac 7679	m.s. < 11.1	
ac 10604	m.s. < 11.1	
ac 13520	10.9	
ac 7713	.	Too poor
ac 11281	m.s. < 11.7	
ac 1440	m.s. < 11.4	
ac 13696	.	off edge
ac 4992	< 11.1	m.s? Too poor.
ac 7549	m.s. < 10.7	
ac 4352	9.9	
ac 9538	< 10.7	m.s? Too faint
ac 7538	m.s. < 11.7	
ac 4327	9.8	c and f used ; d defective?
ac 11516	m.s. < 12.4	
ac 7535	.	Too poor
ac 4273	9.4	i
ac 9250	11.6	9m. f v fee. g
ac 7284	9.7	f
ac 16711	10.2 ?	f used only; e blurred + faint.
ac 3238	10.3	e
ac 9233	.	Too poor.
ac 3174	.	Too poor
ac 3054	m.s. < 11.7	

12·51

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1915phae.proj.1047M

Monday February 7, 1916

2.27

S Bootis.

Plate No.	Magn.	
ac 10567	m.s. < 10.4	
ac 13043	m.s. < 11.4	
ac 874	m.s < 11.7	
ac 4811	m.s. < 12.4	
ac 4677	m.s. < 12.4	
ac 10413	< 11.7	Too poor - blurred.
ac 12373	.	off edge.
ac 648	* 11.6?	Poor? - not sure. f
ac 7653	m.s. < 10.4	
ac 10467	m.s. < 11.7	
ac 4692	.	Too poor
ac 10479	m.s. < 11.4	
ac 732	10.1	E
ac 814	9.9?	Comp. Hazy (var.)
ac 4717	m.s. < 11.7	
ac 10364	m.s. < 11.1	
ac 241	m.s. < 11.1	
ac 75-80	m.s. < 11.7	
ac 4470	10.1?	Comp. v hazy
ac 9544	10.8?	f
ac 212	.	Too poor.
ac 4447	10.2?	E
ac 16580	m.s. < 11.1	

2.52
2.59

ac 7566	m.s. < 11.4	
ac 11555	m.s. < 11.4	
ac 7554	m.s. < 11.4	

*Reject. Isochromatic plate according to original records. This magnitude estimate from blue magnitudes and therefore incorrect.

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1915phae.proj.1047M

Monday February 7, 1916

5 Bootis

Plate No.	Magn.	
ac 4379	9.7	Comp. v hazy
ac 12143	·	Too poor
ac 7649	·	" "
ac 4625	< 11.4	Too faint + hazy
ac 10281	11.0?	f
ac 628	< 11.7	Too faint + hazy
ac 576	m.s. < 11.4	
ac 11825	·	Too poor and faint
ac 299	10.9?	f
ac 7643	m.s. < 10.4	
ac 11650	·	Too poor
ac 10209	10.0	Comp. v hazy
ac 4606	·	Scratch on film at dec. of v.
ac 11644	m.s. < 10.4	
ac 7628	·	Too poor; fogged
ac 7636	m.s. < 10.7	
ac 9592	m.s. < 10.4	
ac 278	·	Too poor
ac 4554	m.s. < 10.1	
ac 4590	m.s. < 10.1	
ac 4548	10.9?	f
ac 7591	m.s. < 10.7	
ac 11591	m.s. < 12.4	
ac 4532	10.9	f
ac 7580	m.s. < 10.4	
ac 11566	·	Too poor.
ac 244	·	Multiple image plate.
ac 9553	11.5?	f

3.24

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1915phae.proj.1047M

Tuesday, February 8, 1916

12.15 δ Bootis

Plate No.	Magn.	
ac 8502	n.s. < 10.7	
ac 6405	10.1?	ε
ac 2574	9.5?	q
ac 8486	n.s.? < 10.7	
ac 6367	10.5	ε
ac 2497	n.s. < 10.7	
ac 16398	n.s. < 12.2	
ac 6361	10.1	Comp.
ac 8466	.	Too poor
ac 6320	10.2	
ac 7530	n.s. < 11.4	
ac 3758	n.s. < 10.7	
ac 9487	10.2	ε
ac 7523	n.s. < 12.2	
ac 3720	n.s. < 11.1	
ac 7516	n.s. < 10.7	
ac 7507	n.s. < 11.4	
ac 3706	11.6?	f
ac 132	.	Plate covered with defects. Too poor.
ac 7499	.	Too faint + hazy
ac 9449	9.7 ?	ε p
ac 3691	.	Too poor
ac 11507	n.s. < 12.2	
ac 4501	10.5?	f and f' used. ε is scratched.
ac 3681	n.s < 11.4	
ac 7471	.	Too poor
ac 3588	11.0?	Images hazy + poor.
ac 9434	9.4	

12.43

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1915phae.proj.1047M

Tuesday, February 8, 1916

2.30 S Bootis

Plate No.	Magn.	
ac 9430	9.4	
ac 3555	n.s. < 10.7	
ac 7467	n.s. < 11.4	
ac 11466	n.s. < 10.7	
ac 3508	·	Too faint and poor
ac 7439	11.4?	f
ac 3473	10.5	
ac 7409	11.2?	Plate unevenly fogged. q Var. on edge of fogging
ac 3403	10.2	ε
ac 7674	·	Too poor ε
ac 833	10.3	f
ac 4790	*11.3? f.	f q
ac 10516	·	Too poor.
ac 7664	·	Too faint + poor
ac 8670	·	" " ·
ac 8615	10.2	ε
ac 6542	n.s. < 11.1	
ac 2681	10.2	
ac 8578	·	Too poor.
ac 6491	·	" " ε
ac 16475	n.s. < 12.2	
ac 2666	9.8	
ac 6460	n.s. < 10.4	
ac 8540	·	Too poor

2.55

3.00

ac 2646	·	Too poor	
ac. 8533	· —	" " foggd	
ac 6429	10.1		
3.02 ac 16453	n.s < 11.7	~~Too~~	*Reject. Too poor. See p.162

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1915phae.proj.1047M

Tuesday, February 8, 1916

5 Bootis.

V 3.27

Plate No.	Magn.	
ac 4452	10,1?	Comp.
ac 9796	m.s. < 10.4	e > f? f def.?
ac 7642		Too poor
ac 9721	m.s. < 11.7	"
ac 4007	10,5	Comp.
ac 1431	m.s. < 11.4	
ac 7589		Too poor
ac 16154	11.3	
ac *~~3928~~ 3928	m.s. < 10.4	
ac 1411		Too poor
ac 7583	m.s. < 11.7	
ac 9713	m.s. < 11.7	
ac 1361	m.s. < 12.4	
ac 16140	11.2	
ac 7574	m.s. < 12.4	
ac 9706	m.s. < 11.4	
ac 3859	m.s. < 11.7	
ac 3831	m.s. < 11.1	
ac 9631	m.s. < 11.4	
ac 1249	11.5	
ac 7527	m.s. < 10.7	
ac 9685		Too poor
ac 1186	10.7	
ac 3761		Too poor
ac 9597		" "
ac 7391	10.6	
ac 16036	9.7	
ac 3645	m.s. < 11.4	

*Plate incorrectly numbered. See note on cover ac 3928

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1915phae.proj.10478

Tuesday, February 8, 1916.

S Bootis

Plate No.	Magn.	
ac 16041	.	Too poor and hazy ε
ac 936	9.7	
ac 3543	n.s. < 10.7	
ac 9481	10.3	
ac 723	10.3	
ac 3577	10.9	
ac 15420	n.s. < 11.1	
ac 9451	9.4	
ac 6465	10.9 ?	f
ac 3424	.	Too poor
ac 695	10.6	
ac 9368	.	Too dark
ac 15334	< 12.2	n.s? Imn. def?
ac 6458	.	Too poor ε.
ac 3334	10.2	
ac 593	n.s.? < 12.4	Defect in film at pos. of var.
ac 9287	10.7	
ac 6412	9.5 ?	Comp. ε,
ac 15293	n.s. < 11.4	
ac 9220	12.2 ?	Comp f.
ac 12982	11.2	f
ac 235	n.s. < 11.1	
ac 6069	11.9 ?	f
ac 2725	10.9	f
ac 12906	10.3	
ac 14927	10.3	
ac 12812	10.0 ?	d and e used f defective.
ac 2615	9.6 ?	Comp. ε

4.26

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1915phae.proj.1047M

Wednesday, February 9, 1916

2.34 S Bootis

Plate No.	Magn.	
ac 11791	10.1	
ac 246	n.s. < 11.7	
ac 6085	11.9?	# Comp. fq. Im. of v long.
ac 16005	9.7	
ac 3611	n.s. < 10.7	
ac 967	n.s? < 11.1	
ac 7302	9.6?	Comp. v hazy
ac 3582	11.3?	Comp.
ac 897	.	Too poor
ac 6735	n.s. < 11.4	
ac 9581	.	Too poor. v defective?
ac 6589	n.s. < 11.1	
ac 9545	11.2?	f
ac 6519	.	Too poor
ac 875	.	Too poor
ac 807	9.8	Comp.
ac 3575	n.s. < 10.7	
ac 6510	11.6?	Images all hazy. f
ac 15017	9.8	Comp. v hazy
ac 13127	n.s. < 12.4	
ac 2793	.	Too poor
ac 273	.	" "
ac 14974	10.1	
ac 13089	n.s.? < 12.4	n.s.? If seen, defective. Im. fec.
ac 13172	n.s. < 11.1	
ac 6186	11.3?	f
ac 2731	11.1	f
ac 2792	.	Too poor

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1915phae.proj.1047M

Wednesday, February 9, 1916

S Booötis

Plate No.	Magn.	
ac 9371	9.7	
ac 9445	9.4	
ac 13059	< 12.4	n.s.? 9f seen, too faint to mens.
ac 6148	11.5-	
ac 13036	n.s. < 12.2	
ac 6120	11.5-	
ac 13034	< 11.4	n.s.? 9f seen, too faint to mens.
ac 3166	11.2?	f
ac 8846	.	Too poor
ac 397	11.3?	f
ac 15219	11.5-?	f
ac 317	.	Too difficult c date
ac 3133	12.1?	f l' > l?
ac 6403	9.9	
ac 12468	n.s. < 10.7	
ac 12386	10.8?	Comp. v hazy.
ac 311	10.8	
ac 6344	10.3?	pq
ac 295-	11.4?	Comp.
ac 2824	n.s. < 11.7	
ac 12371	10.5	
ac 12382	10.8	Comp.
ac 6242	10.8	"
ac 6293	10.3	
ac 11609	12.3?	f
ac 11699	n.s. < 11.4	
ac 2662	10.2	
ac 5732	n.s. < 10.1	

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1915phae.proj.1047M

Wednesday, February 9, 1916

S Bootis

Plate No.	Magn.	
ac 10715	.	Too poor.
ac 265-1	9.8	
ac 14233	10.3	Comp.
ac 8491	n.s. < 10.7	
ac 10706	.	Too poor
ac 14116	9.8	
ac 5276	10.4 ?	f
ac 2642	9.4	Comp. v hazy
ac 14084	9.9 ?	f n.s. compared with d f q
ac 845-2	n.s. < 11.7	
ac 10692	.	Too poor
ac 16785	10.1 ?	E
ac 25-97	9.4	
3.41		
4.00 ac 5898	n.s? < 12.2	n.s? Defect at pos. of V
ac 8617	.	Too poor + hazy
ac 17113	n.s. < 11.4	
ac 11475	n.s. < 12.4	
ac 4510	n.s. < 10.4	
ac 5951	n.s. < 12.4	Star m seen? or def.? - hazy
ac 8680	9.4 ?	f
ac 4535	11.0 ?	f
ac 14821	10.9	
ac 17210	n.s. < 11.4	
ac 6008	n.s? < 12.2	
ac 4569	11.2 ?	f All faint comp. stars look same magn.
ac 4462	10.0 ?	Comp.
ac 14633	n.s. < 13.3	
4.14		

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1915phae.proj.1047M

Thursday, February 10, 1916

44
2.28

S Bootis

Plate No.	Magn.	
ac 1569	.	Too poor
ac 13598	m.s. < 10.7	
ac 4738	m.s. < 12.2	
ac 1566	m.s. < 11.1	
ac 13572	11.6	f
ac 4655	12.3 ?	f
* ac 4685	m.s. < 11.7	
ac 10273	10.6	
ac 7749	m.s. < 10.7	
ac 1526	m.s. < 10.7	
ac 13185	m.s. < 11.4	
ac 10048	10.3	
ac 10665	m.s. < 10.7	
ac 16748	.	Too poor - E. - streaked
ac 8430	m.s. < 11.4	
ac 5120	.	Too poor
ac 2556	9.7	
ac 14025	10.8	f
ac 2531	9.9	
ac 13979	m.s. < 11.1	
ac 10653	m.s. < 11.1	
ac 8353	m.s. < 12.2	
ac 5087	10.2	
ac 16712	.	Too poor E
ac 10617	m.s. < 11.4	
ac 16678	.	Too poor
ac 5028	.	Too faint
ac 2502	10.8	

* Assumed to be ac 4685, as ac 4605 does not cover.

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1915phae.proj.1047M

Thursday, February 10, 1916

S Bootis

	Plate No.	Magn.	
v	ac 13944	n.s. < 12.4	
	ac 2458	11.5	
	ac 8269	·	Too poor and faint
	ac 5002	11.2 ?	f
	ac 8606	10.3 ?	f.
	ac 11427	< 12.2	n.s.? If seen too faint & hazy
	ac 16959	·	Too poor. Σ.
3.15			
3.24			
	ac. 5860	n.s. < 11.4	
	ac 14576	·	Too poor
	ac 2708	11.3?	fg.
	ac 5838	n.s. < 12.4	
	ac 11331	n.s. < 12.2	
	ac 8579	·	Too poor
	ac 16866	10.2?	e n.s. f
	ac 14249	10.3?	Comp. v sharp.
	ac 8528	11.1?	f
	ac 16811	9.9	
	ac 11532	n.s. < 11.7	
	ac 10514	n.s. < 11.1	
	ac 4912	n.s. < 11.4	
	ac 1734	10.2?	Comp. v hazy
	ac 7881	10.2?	Comp. " "
	ac 10426	12.3?	f
	ac 16447	n.s. < 11.1	
	ac 4874	n.s. < 11.7	
	ac 4600	n.s. < 11.1	

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1915phae.proj.1047M

Thursday February 10, 1916

δ Bootis

Plate no.	Magn.	
ac 10407	n.s. < 11.4	
ac 1647	·	Too poor
ac 13749	n.s. < 12.4	
ac 7850	n.s. < 10.1	
ac 16393	n.s. < 12.4	
ac 10377	n.s. < 11.7	
ac 4795	n.s. < 12.2	
ac 13665	n.s. < 10.7	
ac 1611	n.s. < 10.7	
ac 10340	12.0	
ac 7786	n.s. < 11.1	
ac 10875	9.7	
ac 5731	·	Too poor
ac 16608	·	" " ε
ac 10612	n.s. < 11.4	
ac 13939	·	Too difficult c plate
ac 2447	·	Too poor and faint
ac 10580	n.s. < 10.7	
ac 8242	n.s. < 12.4	ε' > ε ?
ac 10546	n.s. < 10.4	
ac 4984	n.s. < 10.7	
ac 2298	n.s. < 12.2	ε > t ?
ac 8165	·	Too faint + poor. ε' > ε?
ac 16512	n.s. < 11.4	
ac 2123	n.s. < 12.8	
ac 10528	n.s < 11.7	
ac 7915	·	Too poor ε.
ac 4947	11.5?	k n.s. t

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1915phae.proj.1047M

Thursday, February 10, 1916

5 Bootis

	Plate No.	Magn.	
v	ac 13886	m.s. < 12.8	
	ac 1795		Too poor - trailed
	ac 13849	m.s. < 12.2	

4.07

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1915phae.proj.1047M

Monday, February 14, 1916

4.05 S Bootis.

Plate No.	Imagn.	Yellows
ac 13895	.	Too poor
ac 13917	.	" "
ac 13791	.	" "
ac 17095	m.s ? < ~~f~~ f'	Too faint + poor if seen.
ac 1531	.	Too poor
ac 14684	m.s. < f	
ac 12429	.	Too poor.
ac 15074	d 3 v v 2 e	
ac 14959	d 3 v v 1 e	
ac 16351	m.s. < k	
ac 16208	.	E. Too poor
ac 1483	.	Too poor
ac 15964	c e 1 v v 2 d	
ac 15857	c 2 v v 2 d	
ac 16501	.	Too poor
ac 648	h 4 v k 1 v v 1 l	? ef
ac 14958	.	Off edge
ac 13676	.	" "
ac 13719	.	Too poor
ac 16324	m.s. < h	
ac 16632	.	Too poor E.
ac 16506	m.s. < g	

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1915phae.proj.1047M

Monday, February 14, 1916

S Bootis

J

Plate No.	Magn	Yellow.
ac 5929	.	Too poor ε.
ac 16182	n.s.< h	
ac 16055	d 1 V	
	V 4 e	
ac 16093	e 5 V	
	V 1 f	
ac 15045	.	Off Edge
ac 15096	n.s. < d	
ac 15090	c 6 V	
	V 1 d	
	V 4 e	
ac 16503	.	Off Edge
ac 16336	.	" "
ac 8398	.	Too poor
ac 14960	c 4 V	
	V o d	
	V 6 e	

(2m out)
5.03

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1915phae.proj.1047M

Tuesday, February 15, 1916

2:56 S Bootis

Plate No.	Magn.	
∂ 18099	10.0	
∂ 24305	13.0	
∂ 34006	11.3?	extreme E
∂ 33978	11.0?	E
∂ 34005	12.1	Comp. Plate unevenly fogged, and v near edge of fogged section
∂ 34721	.	off edge
∂ 23177	10.5	Comp.
∂ 34752	.	Too near E. Comp. star off E
∂ 34722	11.4	Comp. v less dense
∂ 18154	.	Too poor.
∂ 18206	10.6	Comp. v dense
∂ 34136	.	Too near E
∂ 18328	12.6	
∂ 16252	m.s. < 12.2	
∂ 18419	m.s. < 12.4	
∂ 19546	11.3?	ef
∂ 16415	m.s. < 13.5	
∂ 17532	10.6	
∂ 17253	.	Too poor.
∂ 17505	10.5	
∂ 16756	m.s. < 13.5	
∂ 17348	11.3	f
∂ 17966	.	off edge
∂ 16564	m.s. < 13.3	
∂ 17128	.	Too poor
∂ 37137	.	off edge
∂ 17013	13.7	

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1915phae.proj.1047M

Tuesday, February 15, 1916

δ Bootis

	Plate No.	Magn.	
v			
	ϑ 16402	m.s. < 11.4	
	ϑ 16682	m.s. < 12.8	Defect near dos. of V.
	ϑ 16795	m.s. < 13.5	
	ϑ 16898	13.8	f
	ϑ 17836	9.9 ?	Plate unevenly fogged V in a light streak
	ϑ 17032	13.6	
	ϑ 19735	10.4?	Σ. f + f' used ε too near edge.
	ϑ 37293	.	off Σ edge
	ϑ 17879	.	" "
	ϑ 17897	9.9 ?	Σ
	ϑ 17965	9.4	
	ϑ 17898	9.9	
3.58			
4.16	ϑ 26992	15.0 ?	Very faint n' + n'² used. n defective
	ϑ 26174	9.7	
	ϑ 25094	.	Too near Σ. Comps stars needed, off Σ
	ϑ 27022	.	off Σ edge
	ϑ 26953	.	Too poor, Σ.
	ϑ 26764	12.6	Σ
	ϑ 25549	.	off Σ.
	ϑ 22744	11.5	Σ
	ϑ 22935	10.4?	Compared with d and f. Other c. stars off Σ edge.
	ϑ 25095	9.9	
	ϑ 20017	9.9	
	ϑ 22936	.	off Σ edge.
	ϑ 23781	.	" "

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1915phae.proj.1047M

Tuesday February 15, 1916

S Bootis

	Plate No.	Magn.		
	ϑ 25442	12.3		f
	ϑ 25415	.	off edge	
	ϑ 25408	12.6?	? confused only with	m. ε' + C off ε.
	ϑ 22495	13.8 ?		f
	ϑ 22458	-	off edge	
	ϑ 20232	10.2		ε
	ϑ 20233	10.1		
	ϑ 20422	.	off edge	
4.42	ϑ 22457	13.4		f

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1915phae.proj.1047M

Thursday February 17, 1916

3.43 S Bootis

	Plate No.	Magn.	
U			
	d 27659	.	Off edge,
	d 28634	.	Spectrum plate
	d 27666	10.4?	Extreme edge
	d 28607	11.5?	Extreme edge
	d 28819	9.8?	Edge
	d 28802	.	Off edge
	d 28623	.	" "
	d 28874	9.7	
3.5-7.8	d 16564	n.s. < 12.8	
4.15-	d 35198	10.2	T' plate.
	ac 1221	11.1?	E
	ac 2099	.	Too poor
	ac 9241	.	" "
	ac 9522	10.9?	T' plate
	ac 10356	11.6?	" "
	ac 9582	.	Too poor
	ac 14066	.	" "
	ac 10313	11.4	T' plate
	ac 11888	.	Too poor
	ac 9530	.	" "
	ac 10312	11.4	T' plate
	ac 11549	n.s. < 12.2	
	ac 2515	10.3?	E
	ac 13728	.	Off edge.
	ac 10375	n.s. < 11.1	
	ac 13765	.	Off edge

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1915phae.proj.1047M

Thursday, February 17, 1916.

S Bootis

Plate No.	Magn.	
ac 7445	.	Broken - pieces missing
ac 11684	.	" " "
ac 6481	.	" " "
ac 5870	.	" " "
ac 3627	.	" " "
ac 9439	.	" " "

4.43

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1915phae.proj.1047M

Saturday, February 19, 1916

2.42

c

S Bootis

Plate No.	Magn.	
ac 2414	m.s. < 11.4	
ac 15216	m.s. < 10.7	
ac 16367	m.s. < 11.7	e' > e ?
ac 16290	12.7	
ac 8296	m.s. < 12.4	e' > e ?
ac 6094	11.3 ?	f
ac 16785	10.2 ?	ε f
c 9288	10.8	e + g used f' off plate
c 9324	10.5 ?	" " " " " "
c 9289	10.9	" " " " " "
mc 8667	13.5	
mc 3167	13.4	
mc 5352	10.1	P.C.'s used
mc 5232	9.9	" "
mQ 3049	m.s. < 13.3	
mQ 3167	m.s. < 12.4	
mc 8549	13.1	
∂ 36182	11.2	F' plate
∂ 36142	11.5	g. " "
ac 16083	e 5 √	Yellow Comp.
	v l f	

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1915phae.proj.1047M

Saturday, February 19, 1916

S Bootis

	Plate No.	Magn.	
a	591	9.8	c + f used; d too near ε. p
a	5414	13.8[5-] ?	f
a	5475	12.3	
a	502	10.5 ?	Comp. v hazy p. q
a	684	10.4 ?	Plate unevenly fogged. p. q
a	471	10.5 ?	f + f' used e off plate ε
a	3521	12.3	Plate stained
a	1562	12.1	ε p
a	568	9.4	p

3.47

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1915phae.proj.1047M

Friday, February 25, 1916

S Bootis Remeasures.

v 4.25	Plate No.	Magn.	
	ac 4790	m.s. < 11.4	
	ac 3940	m.s.? < 10.1	If seen, about 10.3. Very hazy and faint, but apparently in exact position of V.
	ac 16686	10.2	
	ac 4007	10.6	Comp. v hazy
	ac 10642	11.6 ?	v very faint but distinct
	ac 10759	.	Im. of V visible but apparently defective; peculiar in shape, & not of uniform density
	ac 10673	.	Too faint and uncertain
	ac 10498	m.s. < 11.4	If seen, too faint and hazy
	ac 3994	10.8 ?	
4.37			
4.45	I 36182	11.3	
	I 36142	11.3	
4.49			

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1915phae.proj.1047M

Saturday. February 26, 1916

S Bootis.

12.00	Plate No.	Magn.	
	a 293	n.s. < 11.4	
	I 15905	10.4	
	B 2016	.	Too near E.
	mc 3049	n.s. < l	Yellow
	mc 5092	c 3 v	l too near edge. P.C. used
		v 2 e	
	mc 5133	c 3 v	
		v 4 e	
			Blue
	mD 2999	n.s. < 12.4	
	mD 3310	11.6	
	mc 3310	12.0	
	I 33116	.	Too near edge
	I 15904	10.8 ?	E. e and f used. f' too distant from v, and does not compare with it.
	I 36187	11.0	
12:38			
12.49	ac 730	.	off edge.
	ac 17138	.	" "
	ac 10760	.	Hot region
	ac 12408	.	off edge
	ac 8531	.	" "
	ac 10611	.	" "

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1915phae.proj.1047M

Saturday, February 26, 1916

S Bootis.

	Plate No.	Magn.	
V	ac 17041	·	Too faint and indistinct
	ac 11585	n.s. < 11.7	
	ac 7633	·	Off edge
	ac 11516	n.s. < 12.2	
	ac 9286	10.8	
	ac 4451	10.0?	Very doubtful. Extreme E. c + f used
	ac 10586	·	Off edge
	ac 766	9.8?	Extreme corner. c + f used
*Assumed to be ac 5769. See plate cover of ac 5769	ac *5769	n.s. < 11.4	
	ac 11465	·	Off edge
	ac 7314	9.9	
1.02			
	ac 7630	·	Too near E.
	ac 10664	·	Off edge
2.07	mc 8667	13.5	
	mc 8549	13.2	
2.09			
	mc 2999	n.s. < k	Yellow
	a 5414	13.6?	f

Var distinctly seen, but different in shape from other images.

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1915phae.proj.1047M

Thursday, March 2, 1916

S Bootis Remeasures.

Plate No.	Magn.	
ac 3706	11.7?	Image very faint and hazy, but does not look like a defect. exactly in position of variable. Edge of plate.
ac 10642	11.6?	Image extremely faint, but seems certainly a star image, + is of the same shape as those surrounding it. There is another, still fainter, object near, but this cannot be variable as is shown by superpositions.

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S Cassiopeiae

Monday, February 22, 1916

3.00

J

Plate No.	Magn.	
ac 3820	11,24 o / v	v = 11.29
	v / o' 11.34	
ac 4572	m.s. < 12.0	
ac 11724	m.s. < 11.3	
ac 9195	m.s. < 11.3	
ac 6866	m.s. < 11.3	
ac 4524	m.s. < 12.3	
ac 9168	m.s. < 11.3	
ac 6815	m.s. < 11.3	
ac 11400	9.9	
ac 9167	.	Too faint
ac 9107	.	" "
ac 4471	.	" "
ac 6744	m.s. < 11.2	
ac 11302	10.0	d and m used k' sup.
ac 9065	m.s. < 11.3	
ac 6681	m.s. < 11.3	
ac 9060	m.s. < 11.3	
ac 4355	m.s. < 12.3	
ac 11291	9.9	
ac 9031	.	Too faint
ac 6676	m.s. < 11.2	
ac 5789	11.3 ?	f
ac 11077	m.s. < 10.5	
ac 5780	12.1	
ac 8297	.	Too faint
ac 11068	12.2 ?	q m.s. f
ac 5745	m.s. < 12.0	

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1915phae.proj.1047M

Monday, February 21, 1916

S Cassiopeiae

Plate No.	Magn.	
ac 8279	.	Too poor
ac 6645	n.s. < 11.2	
ac 3932	n.s. < 11.3	
ac 5176	n.s. < 11.2	
ac 3746	10.1	
ac 8608	n.s. < 11.3	
ac 11100	< 12.0	n.s.? If seen, too poor & hazy to measure.
ac 5892	10.9?	Comp. v hazy
ac 8537	.	Too poor.
ac 5101	.	" "
ac 5096	n.s. < 11.3	
ac 7000	n.s. < 11.2	
ac 5047	.	Too poor
ac 12179	n.s. < 11.2	
ac 5020	n.s. < 11.3	
ac 12007	.	Too poor
ac 4618	n.s. < 12.0	
ac 6933	n.s. < 11.3	
ac 11962	.	Too poor
ac 5015	n.s. < 11.3	
ac 11921	-	Too poor
ac 9550	.	" "
ac 4711	ns < 11.3	
ac 11775	.	Too poor.
ac 9202	n.s. < 12.0	
ac. 11734	n.s < 11.2	
ac 6898	n.s. < 11.3	

4.021

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1915phae.proj.1047M

Tuesday February 22, 1916

3.10 S Cassiopeiae

Plate No.	Magn.	
ac 3127	m.s. < 12.3	
ac 13698	m.s. < 12.3	
ac 16821	m.s. < 12.0	
ac 7171	m.s. < 11.3	
ac 5652	m.s. < 12.3	
ac 13642	m.s. < 11.3	
ac 5520	.	Too poor
ac 13549	m.s. < 11.3	
ac 7145	.	Too poor
ac 16734	.	" "
ac 5503	m.s. < 11.3	
ac 6616	.	Too poor
ac 8814	m.s. < 11.3	
ac 11255	10.3	
ac 4335	m.s. < 12.3	
ac 6551	m.s. < 11.3	
ac 11190	11.1	
ac 6501	.	Too poor
ac 4286	m.s.? < 12.0	
ac 11158	.	Too poor
ac 8760	.	" "
ac 6479	.	" "
ac 4172	m.s < 12.0	
ac 11154	m.s < 11.2	
ac 8682	.	Too poor
ac 6046	11.2	
ac 11137	11.3	
ac 8637	m.s. < 11.2	

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1915phae.proj.1047M

Tuesday, February 22, 1916

S Cassiopeiae

Plate No.	Magn.	
ac 11111	m.s. < 12.0	
ac 4128	< 12.0	m.s.? If seen too faint + hazy to measure
ac 5969	11.0	Comp. v hazy
ac 8620	·	Too poor
ac 5902	11.24 0 | v v | 0 11.34	v = 11.29 05- 05-
ac 6635	m.s. < 11.2	
ac 14483	m.s. < 11.3	
ac 14438	m.s. < 12.0	
ac 3085	·	Too poor.
ac 7676	·	" "
ac 14397	·	" "
ac 17266	m.s. < 12.3	
ac 7646	·	Too poor
ac 3078	m.s.? < 12.3	
ac 14284	11.3	
ac 4092	m.s. < 12.3	
ac 17066	m.s. < 12.3	
ac 7096	·	Too poor
ac 13451	·	" "
ac 5476	m.s. < 12.0	
ac 17637	·	Too black
ac 5785	m.s. < 11.2	
ac 7012	m.s. < 12.3	
ac 5158	·	Too poor
ac 13233	·	" "
ac 5127	·	" "

4.00

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1915phae.proj.1047M

Wednesday February 23, 1916

2.55 S Cassiopeiae

e

Plate No.	Magn	
ac 3956	.	Too poor.
ac 17048	m.s. < 12.3	
ac 7262	m.s. < 11.3	
ac 14270	11.1	
ac 16969	m.s. < 12.0	
ac 3916	m.s. < 12.0	
ac 3866	< 11.2	m.s.? If seen, too poor + faint
ac 14191	11.5?	& m.s. Lim. of vis.
ac 16961	m.s. < 11.3	
ac 7252	m.s. < 11.3	
ac 14145	.	Too poor
ac 3223	m.s. < 12.0	
ac 13734	m.s. < 12.3	
ac 7227	m.s. < 12.0	
ac 3204	m.s. < 12.0	
ac 16850	m.s. < 12.3	
ac 7712	.	Too poor
ac 14579	m.s. < 12.7	
ac 7696	.	Too poor
3.11		
3.16 ac 3289	.	Too poor
ac 13413	m.s. < 12.3	
ac 5422	.	Too poor
ac 13364	m.s. < 11.2	
ac 16611	m.s. < 11.3	
ac 5386	m.s < 11.3	
ac 13326	m.s. < 12.3	
ac 5357	m.s. < 11.3	

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1915phae.proj.1047M

Wednesday, February 23, 1916

S Cassiopeiae

Plate No.	Magn.	
ac 16600	·	Too poor. 2
ac 7088	·	Too poor
ac 13312	m.s. < 11.3	
ac 13526	m.s. < 12.9	
ac 3168	m.s. < 11.3	
ac 13277	m.s. < 11.3	
ac 5280	m.s. < 12.0	
ac 13270	·	Too poor
ac 7019	m.s. < 11.3	
ac 5239	m.s. < 11.2	
ac 13258	m.s. < 11.2	
ac 7930	·	Too poor.
ac 14552	·	" "
ac 3074	·	" "
ac 7798	·	" "
ac 17285	m.s. < 12.0	
ac 14549	m.s. < 11.3	
ac 3066	m.s. < 12.3	
ac 14543	·	Too poor.
ac 7367	m.s. < 12.3	
ac 16723	·	Too poor.
ac 17265	·	" "
ac 16043	11.0 ?	Σ. Comp.

4.00

4.11

ac 14702	m.s. < 12.7	
ac 12326	m.s. < 12.3	
ac 15954	* 12.6?	Line of vis.

* Project. Too poor. See p. 207

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1915phae.proj.1047M

Wednesday, February 23, 1916

δ Cassiopeiae

	Plate No.	Triagn.	
e	ac 10891	·	Too poor
	ac 10874	n.s. < 11.2	
	ac 14567	n.s. < 11.3	
	ac 12809	11.0 ?	f
	ac 15822	n.s. < 12.0	
	ac 12799	·	Defect almost superposed on ν
	ac 10859	·	Too poor
	ac 15812	n.s. < 12.0	
	ac 15718	n.s. < 12.3	
	ac 15671	·	Too poor
	ac 10033	·	" "
	ac 15607	n.s. < 11.3	
	ac 10013	n.s. < 11.3	
	ac 12611	10.3 ?	Comp. κ + ℓ used, h too poor + hazy
	ac 11005	n.s. < 11.3	
	ac 12558	11.7 ?	f
	ac 15572	n.s ? < 11.2	
	ac 10984	n.s. < 11.2	
	ac 9939	n.s. < 11.3	
	ac 12546	n.s. < 11.3	
	ac 15529	n.s. < 12.0	
	ac 10950	n.s. < 11.3	
	ac 9833	·	Too poor,
	ac 12543	n.s. < 11.2	

4.37

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1915phae.proj.1047M

Thursday February 24, 1916

3.86 S Cassiopeiae

Plate No.	Magn.	
ac 10852	m.s. < 11.3	
ac 12322	·	Too poor
ac 15803	m.s. < 12.0	
ac 15782	·	Too poor
ac 11033	m.s. < 11.3	
ac 15449	m.s. < 12.3	
ac 12528	m.s. < 11.3	
ac 15387	·	Too poor.
ac 10948	m.s. < 12.0	
ac 12391	m.s. < 11.3	
ac 12379	·	Too poor
ac 14745	m.s. < 12.0	
ac 17014	m.s. < 12.0	
ac 10900	·	Too poor
ac 15506	m.s. < 12.0	
ac 5763	·	Too poor
ac 14504	< 12.0 #	m.s.? V. seen. too faint + hazy to measure
ac 3881	·	Too poor
ac 5723	m.s. < 12.3	
ac 14476	·	Too poor
ac 3151	·	" "
ac 5369	m.s. < 12.0	
ac 13559	m.s. < 11.3	
ac 3112	m.s. < 12.0	
ac 13528	·	Trailed; too difficult.
ac 3095	m.s. < 12.3	

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1915phae.proj.1047M

Thursday, February 24, 1916

S Cassiopeiae

Plate No.	Magn.	
ac 13612	m.s. < 11.3	
ac 3184	m.s. < 12.0	
ac 3163	·	Too poor
ac 5402	m.s. < 11.3	
ac 14760	·	Too faint to measure
ac 5915	11.0	
ac 3903	·	Too poor
ac 14704	m.s < 12.0	
ac 5863	·	Too poor, v m.s?
ac 3910	·	Too poor
ac 3896	·	Too poor
ac 14613	·	Too poor
ac 5822	12.1?	Very doubtful m.s.
ac 3385	m.s. < 11.3	
ac 13669	·	Too poor
ac 3256	m.s. < 12.0	
ac 5480	·	Too poor
ac 3243	m.s. < 11.3	
ac 3251	·	Too poor
ac 14808	m.s. < 12.0	
ac 3193	m.s. < 12.0	
ac 13649	m.s. < 12.0	
ac 5606	m.s. < 12.0	
ac 3418	·	Too poore
ac 13751	m.s. < 12.0	
ac 13706	·	Too poor
ac 13744	m.s. < 11.3	
ac 14232	·	Too poor

4.28

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1915phae.proj.1047M

Friday, February 25, 1916

S Cassiopeiae

3.35

Plate No.	Magn.	
ac 3937	.	Too poor
ac 6761	.	" "
ac 11127	m.s. < 11.3	
ac 5122	.	Too poor
ac 6799	m.s. < 12.0	
ac 8942	.	Too poor
ac 11865	.	" "
ac 6754	m.s. < 11.3	
ac 8252	m.s. < 11.3	
ac 10958	.	Too poor
ac 6746	.	" "
ac 8238	.	" "
ac 8183	< 10.8	v seen? Too hazy and uncertain to measure
ac 4687	.	Too poor
ac 6732	m.s. < 12.3	
ac 10897	.	Too poor
ac 6718	m.s. < 11.3	
ac 6711	.	Too poor
ac 10789	.	" "
ac 8088	10.8	
ac 10719	.	Too poor.
ac 4484	m.s. < 12.0	
ac 6686	.	Too poor
ac 10691	.	Too poor.
ac 3913	.	" "
ac 10671	.	" "
ac 5271	m.s. < 12.0	

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1915phae.proj.1047M

Friday, February 25, 1916

S Cassiop.

e

Plate No.	Magn.	
ac 4024	.	Too poor
ac 6790	m.s. < 11.3	
ac 5219	.	Too poor
ac 3959	.	" "
ac 8872	.	" "
ac 8817	.	" "
ac 3849	.	" "
ac 14426	~~11.2~~	" "
ac 3790	11.2	
ac 5685	m.s. < 12.3	
ac 6703	.	Too poor.
ac 4555	m.s. < 12.0	
ac 10772	.	Too poor
ac 3917	12.1 ?	& m.s. f
ac 10749	.	Too poor.
ac 11983	.	" "
ac 6809	m.s. < 12.0	
ac 4093	.	Too poor.
ac 8992	m.s. < 11.3	
ac 5314	m.s. < 11.2	
ac 4086	.	Too poor
ac 11908	.	" "
ac 8953	.	" "
ac 11873	.	" "
ac 5300	.	" "

4.21

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1915phae.proj.1047M

Monday, February 28, 1916

3.45 S Cassiop

Plate No.	Magn.	
		C
ac 5945	11.0	
ac 15786	m.s. < 11.3	
ac 9722	.	Too poor
ac 6630	.	" "
ac 9723	.	Too faint and hazy to measure
ac 15750	m.s. < 12.3	
ac 9868	m.s. < 12.0	
ac 9880	m.s. < 12.3	
ac 6654	.	Too poor
ac 15967	12.1 ?	f. comp. v hazy
ac 9950	.	Too poor
ac 6678	.	Too poor
ac 16008	10.9 ?	comp. v hazy f
ac 10090	m.s. < 12.7	
ac 10124	.	Too poor
ac 15996	11.24 o 2 V V 1 o / 11.34	comp. v hazy V = 11.31 ½ (Reduced by proportion)
ac 7069	m.s. < 12.0	
ac 7792	.	Too poor
ac 16396	11.2 ?	f
ac 7075	m.s. < 12.0	
ac 3747	10.2 ?	Comp. v hazy
ac 12674	10.3 ?	Comp. v hazy K + l used; h too distant and poor
ac 7181	m.s. < 12.0	
ac 7212	m.s. < 12.0	
ac 7237	m.s. < 12.3	
ac 9326	m.s. < 12.7	

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1915phae.proj.1047M

Monday, February 28, 1916

S Cassiop.

	Plate No.	Magn.		
	ac 6049	11.1	Comp. v hazy	f.
	ac 4395	n.s. < 12.0		
* Assumed intended for ac 6076, as ac 5076 does not cover, and ac 6076 has not been recorded in any other place.	ac 5076 *	11.0		
	ac 6132	10.9	Comp. v hazy	f
	ac 10923	n.s. < 12.3		
	ac 12822	11.0?	f. 0 not seen.	

Plates on which variable is not seen, and which are too poor for estimate

ac 3944	ac 9006	ac 15394
13328	6900	16740
7628	12040	7322
7487	6982	16750
6916	9190	7900
9148	4160	7189
4436	12124	7179
5196	6948	7860
8695	7434	10289
6774	6014	10213
8800	12303	
3945	7364	
4148	7047	
12012	16688	

5.00

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1915phae.proj.1047M

Tuesday. February. 29. 1916

2.41 S Cassiop

	Plate No.	Magn.	
	ac 7762	.	off edge.
	ac 5812	11.6	
	ac 5738	n.s. < 12.0	
	ac 12942	n.s. < 12.3	
	ac 10419	.	off edge
	ac 10387	.	Too faint and hazy to measure
	ac 5707	n.s. < 12.7	
3.00			
3.09	ac 7398	n.s. < 12.0	
	ac 5554	n.s. < 12.3	
	ac 3107	n.s. < 12.0	
	ac 7353	n.s. < 12.3	
	ac 11762	n.s. < 12.0	
	ac 5497	n.s. < 13.1	
	ac 10251	n.s. < 12.3	
	ac 3088	n.s. < 12.3	
	ac 10185	n.s. < 12.7	
	ac 5437	n.s. < 12.3	
	ac 7316	n.s. < 12.3	
	ac 5906	10.9	Comp. v hazy
	ac 3396	n.s. < 12.7	
	ac 4433	n.s. < 12.0	
	ac 4261	n.s. < 12.7	
	ac 7140	n.s. < 12.3	
	ac 5238	n.s. < 12.3	
	ac 7173	n.s. < 12.0	
	ac 9998	n.s. < 12.0	
	ac 4215	n.s. < 12.0	

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1915phae.proj.1047M

Tuesday, February 29, 1916

S Cassiop.

v

Plate No.	Magn.	
ac 11476	10.2	
ac 5934	10,9	
ac 12206	n.s. < 12.0	
ac 10613	n.s. < 12,3	
ac 7244	n.s. < 12.0	
ac 10102	n.s. < 12.0	
ac 7241	* 11.6?	p. n.s. off edge. f
ac 10053		
ac 5354	n.s. < 12.3	
ac 5286	n.s. < 12.0	

Plates on which variable is not seen, and which are too poor for estimates

ac 7180	ac 9967
3083	10024
3147	10155
3148	10328
3157	10363
3241	10575
4316	11848
4345	11889
5175	11915
5932	12000
7156	12080
7258	12088
7422	12195
7677	
7700	

4.15

* Reject; too poor; see ϕ 207

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1915phae.proj.1047M

Wednesday, March 1, 1916

2.15(?) S Cassiop.

Plate No.	Magn.	
ac 8689	n.s. < 12.7	
ac 14603	n.s.? < 12.7	n.s.? If seen, too faint + poor to measure.
ac 11113	11.7?	Comp. v sharp. f
ac 17038	n.s. < 12.0	
ac 11103	11.9	
ac 17255	n.s. < 12.7	
ac 13232	n.s.? < 11.2	If seen, too faint + poor. T' plate
ac 14285		Too faint and poor to measure. Var. fairly bright, but plate poor
ac 12800	10.9?	Comp. v hazy. Irr. sec. shape.
ac 12761	10.26 f 1 v 2	Comp. T' plate.
	v 1 h 10.34	
ac 8873	n.s. < 12.7	
ac 8816	n.s. < 13.1	
ac 11247	10.2	

2.53

3.08	ac 12700	9.8	Comp
	ac 12660	10.2?	Comp. v hazy. T' plate
	ac 8801	n.s. < 12.7	
	ac 12650	10.1?	Comp. v hazy T' plate
	ac 11258	10.1	Comp. v sharp.
	ac 11277	9.9 h 2 v	v = 10.06 .07 .08
		v 1 h 3 10.14	
	ac 12900	11.24 0 1 v	Comp. v hazy.
		v 1 0' 11.34	v = 11.29 .05 .05
	ac 12643	10.0?	Comp. v hazy

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1915phae.proj.1047M

Wednesday, March 1, 1916

S Cassiopeiae

Plate No.	Magn.	
ac 8785	n.s. < 12.3	
ac 11219	11.0?	Lim. of vis. O n.s. f
ac 12625	10.26 K : V	Comp. v hazy
	V : L 10.34	V = 10.30 .04, .04
ac 12551	12.1?	Extreme lim. of vis. r, n.s.
ac 16851	n.s. < 12.7	
ac 16932	< 12.0	n.s? If seen, too faint & hazy
ac 8709	n.s. < 12.0	
ac 11401	9.9	Comp. v sharp.
ac 12821	10.9	E. f
ac 16598	n.s. < 12.0	
ac 11317	9.8	Comp. v. sharp
ac 16879	n.s. < 12.3	
ac 12290	n.s. < 12.3	
ac 17101	n.s. < 13.5	
3.48		
3.49		
ac 11092	11.5?	Hazy spot near V f
ac 14173	11.2	
ac 15974	11.4?	Comp. v hazy.
ac 11006	n.s. < 12.0	
ac 13710	n.s. < 12.7	
ac 15917	< 12.3	Object in pos. of V, defect? very faint.
ac 8100	10.9	
ac 15896	< 12.7	n.s? Too faint for certainty
ac 8090	10.4?	K + C used. L too faint & distant
		Sm. of V pec. in shape.
ac 15788	n.s. < 12.0	
ac 15731	n.s. < 12.3	
4.09		

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1915phae.proj.1047M

Wednesday, March 1, 1916

S Cassiopeiae

4.05 — c

Plate No.	Magn.
ac 13570	n.s, <12.3
ac 14626	n.s, <12.3
ac 7858	9.4
ac 7943	9.7
ac 7942	9.4
ac 14928	n.s, <12.0
ac 14920	n.s, <12.0
ac 14830	n.s, <12.3

4.16

Plates on which variable is not seen, and which are too poor for estimates.

ac 8761	ac 14645
10748	14920
12311	16471
12651	16601
12947	16613
12967	16708
13230	16817
13261	
13292	
13329	
13645	
13700	
14393	
14440	
14544	

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1915phae.proj.1047M

Thursday March 2, 1916

11.50 S Cassiopeiae

J

	Plate No.	Mags	
	ac 8925	n.s. < 12.3	
	ac 9198	n.s. < 12.7	
	ac 6000	11.2	Comp.* h.
	ac 9165	n.s. < 12.7	
	ac 7030	n.s. < 12.7	
	ac 6523	n.s. < 12.0	
	ac 9053	n.s. < 13.1	
	ac 9790		Too difficult c. plate
	ac 5119	n.s. < 12.0	
	ac 6623	n.s. < 12.0	
	ac 7115	n.s. < 12.7	
	ac 9910	n.s. < 12.7	
	ac 6962	n.s. < 12.3	
	ac 9016	n.s. < 12.7	
	ac 9330	n.s. < 12.7	
	ac 8999	n.s. < 12.7	
	ac 6869	n.s. < 12.0	
	ac 6173	10.9 ?	Comp. h
	ac 8990	n.s. < 13.1	
	ac 6856	n.s. < 12.7	
	ac 6850	n.s. < 12.3	
	ac 9262	n.s. < 12.0	
	ac 8941	n.s < 13.1	
12.16 12.22	ac 6588		Too poor
	ac 13421	n.s. < 12.3	
	ac 15805	n.s. < 12.0	
	ac 2718	n.s. < 12.3	

* After "Comp." hereafter "h" will indicate "var. is fainter than images of comparison stars" and "s" will indicate "var. is shafter than images of comparison stars."

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1915phae.proj.1047M

Thursday, March 2, 1916

S Cassiopeiae

ac 2221 3+60

7241 1+75

9027 0+90

15954 0+60

15967 3+60

15974 4+75

15996 3+60

16068 " "

16043 22+60

16044 0+75

+ l used

+ l used.

Plates ou... to me aru... l are too poor

10805 ac 15437

ac 10892 6569 7031 13323 15813

ac 4465 6588 8910 13394

4477 6593 9032 13453

4806 6739 9046 13458

5040 6830 9155 14765

1.00 6255 6875 9747 14777

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1915phae.proj.1047M

Thursday, March 2, 1916

S Cassiopeiae

Plate No.	Magn.	
ac 2742	n.s. < 12.0	
ac 3014	n.s. < 12.7	
ac 7984	9.8	
ac 15344	n.s. < 12.3	
ac 16143	9.8	
ac 10773	n.s. < 12.7	
ac 7891	9.4	
ac 14746	n.s. < 12.0	
ac 14739	n.s. < 12.3	
ac 7887	9.5	
ac 16257	10.0	Comp. h.
ac 8336	n.s. < 12.7	
ac 2143	12.1	
ac 2371	n.s. < 12.3	
ac 12745	10.3?	Comp. h. k + l used
ac 12682	10.3?	Comp. h. k + l used.
ac 7827	9.4	
ac 11422	9.9	
ac 7846	9.4	
ac 7772	10.1?	Comp. h.

Plates on which variable is not seen, and which are too poor to measure.

ac 9716	ac 6541	ac 6886	ac 10805	ac 15437
ac 10892	6569	7031	13323	15813
ac 4465	6588	8910	13394	
4477	6593	9032	13453	
4806	6739	9046	13458	
5040	6830	9155	14765	
6255	6875	9747	14777	

1.00

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1915phae.proj.1047M

Thursday, March 2, 1916

2.22 S Cassiopeiae

v

Plate No.	Mag.			
ac 11367	9.7			
ac 11303	9.4?	Comp. h.		
ac 8002	10.3?	Comp. h.		
ac 7958	9.8	Comp. h.		
ac 12703	9.8?	Comp. h.		
ac 12622	10.14 h^3 | v	Comp. h.		
	v | k 10.26		v = 10.20	06 06
ac 12663	9.99 h^2 | v	Comp. h.		
	v | h^3 10.14		v = 10.06	07 08
ac 16142	9.8	Comp. h.		
ac 16256	9.8?	~~Comp. h.~~	E. q	
ac 7969	9.8	Comp. h.		
ac 16165	9.5?	Comp. h.		
ac 7940	9.6	Comp. h.		
ac 13375	m.s. < 12.0			
ac 11287	9.99 h^2 | v	Comp. h.		
	v | h^3 10.14		v = 10.06	07 08
ac 12657	9.99 h^2 | v	Comp. h.		
	v | h^3 10.14		v = 10.06	07 08
ac 16228	9.99 h^2 | v	Comp. h		
	v | h^3 10.14		v = 10.06	07 08
ac 15873	m.s. < 12.7			
ac 6219	10.6?	O m.s.	f	
ac 15824	m.s. < 12.0			
ac 7777	9.99 h^2 | v			
	v | h^3 10.14		v = 10.06	07 08
ac 4333	m.s. < 12.3			
ac 4380	m.s. < 12.7			

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1915phae.proj.1047M

Thursday, March 2, 1916

S Cassiopeiae

Plate No.	Magn.		
ac 4412	m.s. < 12.3		
ac 4549	m.s. < 13.1		
ac 4152		Trailed.	
ac 4113	m.s. < 12.3		
ac 4127	m.s. < 12.0		
ac 4038	m.s. < 12.0		
ac 3874	11.0?	0 m.s.	f
ac 3776	10.5		f
ac 3091	m.s. < 12.3		
ac 3116	m.s. < 12.3		
ac 3144	m.s. < 12.3		
ac 3178	m.s. < 12.3		
ac 3051	m.s. < 12.7		
ac 3042	m.s. < 12.7		
ac 4619	m.s. < 12.0		
ac 5640	m.s. < 12.7		
ac 2327	m.s. < 12.0		
ac 3820	11.1?		f

Plates on which variable is not seen, and which are too ~~faint~~ poor to measure.

ac 3070	ac 3828	ac 4136	ac 13445
3145	3845	4147	
3333	3867	4167	
3532	3891	4193	
3668	3895	4306	
3684	3969	6503	
3810	4078	13355	

3.10

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1915phae.proj.1047M

Friday, March 3, 1916

3.17
2.28

c

S Cassiopeiae

Plate No.	Magn.	
ac 5082	n.s. < 12.0	
ac 7853	.	Trailed
ac 5680	n.s. < 12.7	
ac 8014	10.0 ?	Comp. h.
ac 7994	9.9	Comp. h.
ac 7011	n.s. < 12.7	
ac 8091	11.0 ?	ei
ac 8288	n.s. < 12.0	
ac 5382	n.s. < 12.3	
ac 7003	n.s. < 12.0	
ac 8182	12.1 ?	R n.s. f
ac 5538	n.s. < 12.0	
ac 7937	9.99 h² 1 V ² ; V 1 h³ 10.14	Comp. h. ef ; V = 10.06 ² ; 07, 08
ac 7843	9.3	Comp. h.
ac 6792	n.s. < 12.0	
ac 7908	9.7	Comp. h.
ac 5801	12.1 ?	R n.s. f
ac 7933	9.6	Comp. h.
ac 5786	12.5 ?	fi
ac 7697	.	Too faint and hazy, if seen
ac 5278	n.s < 12.0	
ac 7819	9.4 ?	e b f
ac 7783	9.99 h² 1 V ² ; 1 1 h³ 10.14	f ; V = 10.06 ² ; 07 08
ac 8749	n.s < 12.0	
4.10		
4.23 ac 8996	n.s. < 12.0	

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1915phae.proj.1047M

Friday, March 3, 1916.

S Cassiopeiae.

Plate No.	Magn.	
ac 11783	m.s.? < 12.0	U seen, too faint and hazy to meas.
ac 8989	m.s. < 12.3	
ac 16820	m.s. < 12.3	
ac 16986	m.s. < 13.1	
ac 8815	m.s. < 12.3	
ac 9981	m.s. < 12.7	
ac 9641	.	Too poor and hazy
ac 11012	m.s. < 12.0	
ac 16044	9.99 h^2 V	comp. h.
	V 1 h^3 10.14	V = 10.06 07 08
ac 8922	m.s. < 12.0	
ac 11550	10.9 ?	E. g
ac 8930	m.s. < 12.0	
ac 11239	10.9	E
ac 16210	9.99 h^2 1 V	
	V 1 h^3 10.14	V = 10.06 07 08

Plates on which variable is not seen, and which are too poor to measure.

ac 4897	ac 5407	ac 6884	ac 8614	ac 9828	ac 11032
4919	5630	6980	8688	10066	11075
4974	5862	7045	8757	10423	11124
4994	6384	7050	8808	10633	11135
5060	6423	7625	8887	10679	11751
5070	6463	7658	8915	10784	11793
5183	6484	7673	8979	10838	11805
5214	6634	8514	8989	10845	11859
5260	6658	8521	9090	10857	11926
5265	6783	8536	9185	10903	16649
5278	6829	8577	9557	10978	16653

4.51

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1915phae.proj.1047M

Saturday, March 4, 1916

3.00

J

S Cassiopeiae

Plate No.	Magn.		
ac 5891	11.2?	Comp. L.	ε
ac 6052	11.0?		ε
ac 7774	9.8?		ε
ac 7404	m.s. < 12.0		
ac 7053	m.s. < 12.0		ε
* ac 7980	9.7?	Comp. L.	ε
ac 8142	11.3?		ε
ac 8132		Too poor and hazy. ε.	
ac 7863	9.8?		ε
ac 8119	11.1?		ε
ac 9479		off Edge.	
ac 8802	m.s. < 12.0		

* Assumed to be ac 7890, as ac 7980 does not cover and ac ~~7888~~ 7890 agrees in magn., and was measured before but not recorded.

Plates on which variable is not seen, and which are too poor ~~too~~ to measure:

ac 6024	ac 7325	ac 8203	ac 8768	ac 9030
6218	7384	8438	8775	9200
6286	7435	8442	8776	9298
6473	7461	8461	8777	9470
6554	7694	8467	8781	9473
6573	7704	8471	8782	9475
7004	7774	8487	8784	9478
7010	7806	8493	8786	9480
7020	7859	8710	8787	9564
7039	7894	8734	8794	
7053	8064	8756	8802	
7280	8123	8759	8818	
7289	8124	8764	8820	
7306	8168	8765	9028	
7308	8174	8766	9029	

4.03

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1915phae.proj.1047M

Saturday, March 4, 1916

S Cassiopeiae

4.30

Plate No.	Magn.	
ac 15932	n.s. < 12.0	
ac 9027 *	10.9?	l and o' used. star o superposed on star of second exp. T' plate
ac 8322	n.s. < 12.0	
ac 15792	n.s. < 12.0	
ac 14482	n.s. < 12.0	
ac 13347	n.s. < 12.0	
ac 15747	n.s. < 12.0	
ac 7935	.	Too poor and hazy
ac 15884	n.s. < 12.0	
ac 12664	9.9?	Comp. h. E.
ac 9044	n.s. < 12.3	T' plate
ac 16984	n.s. < 12.0	
ac 11188	11.0	
ac 13159	.	off edge.
ac 13156	n.s. < 12.0	
ac 12612	10.4?	K + l used Im of l peculiar E
ac 16833	.	Too faint and hazy

* Reject. Image from second exposure evidently measured. See p. 207

Plates on which variable is not seen, and which are too poor to measure.

ac 6727	ac 7967	ac 12573	ac 14555
6963	8424	13147	15756
6981	8588	13158	15791
7150	8935	13171	15793
7613	9005	13217	16880
7635	9023	14475	17126
7693	9497	14503	
7927	12433	14553	

(5.m out)
5.23

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1915phae.proj.1047M

Monday, March 6, 1916

2.37 S Cassiopeiae

Plate No.	Magn.	
ac 9376	.	Extreme E.
ac 9284	.	" "
ac 16816	.	Too poor. Plate covered with defects
ac 12888	m.s. < 12.3	
ac 12642	9.99 h^2 / v	Comp. h. T' plate.
	v / h^3 10.14	v = 10.06 of 08
ac 11181	11.24 o / v	T' plate.
	v / o' 11.34	v = 11.29
ac 12879	12.1	r scarcely seen. T' plate
ac 12844	11.2 ?	Comp. h T' plate.
ac 11223	.	Too faint and hazy
ac 11089	m.s. ? < 12.0	If seen, too hazy for measure.
ac 13646	m.s. < 12.0	
ac 6923	m.s. < 12.3	
ac 14695	m.s. < 12.0	
ac 12485	m.s. < 11.3	
ac 16305	9.99 h^2 / v	
	v / h^3 10.14	v = 10.06 of 08
ac 13863	m.s. < 12.2	r > 0 ?
ac 16576	.	off edge.
ac 13514	m.s. < 12.0	
ac 13853	.	Film off plate in this region. f
ac 16167	9.8 ?	
ac 16390	10.8 ?	o not seen. fg

Yellow Plates too dense to measure.

ac 7590	ac 13931	ac 14473
8969	14468	16779
13921	14469	

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1915phae.proj.1047N

Monday, March 6, 1916.

S Cassiopeiae

Plate No.	Magn.	Yellow
ac 16345	e 5 v	
	v 0 g	
	v 5 h2	
ac 17012	n.s. < l	
ac 14377	n.s. < h2	
ac 13488	·	Off edge.
ac 13948	·	Too near edge
ac 15839	n.s. [e'	
	e 1 v	
	v 2 g	
ac 16187	e a' v	
	v 0 f	
	v 6 g	
ac 16175	e 0 v	
	v 1 f	
	v 1 f'	
ac 16326	f' 3 v	
	v 2 g	

Plates on which variable is not seen, and which are too poor to measure Blue

ac 16390	ac 6627	ac 8063	ac 10285	ac 13333	ac 13854	ac -
16415	7268	8546	10887	13382	14040	15556
16418	6824	8676	11089	13479	14072	15578
16670	7639	8762	12294	13498	14077	
16741	7666	9300	12475	13505	14089	
16797	7899	9043	12522	13546	14338	
17015	7956	9045	12654	13552	14413	
17267	7993	9071	13241	13566	14467	
(8m out) 4.17	7981	9658	13262	13646	14472	

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1915phae.proj.1047M

Tuesday, March 7, 1916

δ Cassiopeiae

U 3.23

Plate No.	Magn.	Yellow
ac 16102	c' 1 v	
	v 3 e	
ac 14369	h^2 1 v	?
	v 2 h^3	
ac 2810	m.s. < D'	
ac 16773	m.s. < k	
ac 16176	e 3 v	
	f 2 v	
	v 3 g	
ac 13502	* e 4 v	
	v 3 e'	
ac 16192	f' 1 v	
	v 4 g	
ac 15861	m.s. < h^3	
ac 15678	m.s. < K	
ac 15685	m.s. < l	
ac 17003	m.s. < r	Yellow?
ac 15679	m.s. < b	
ac 16508	h^2 2 v	
	v 1 h^3	

Plates on which variable is not seen and which are too poor to measure.

ac 9147	ac 14384	ac 16341.
9232	14474	16479
9236	14670	16553
13360	14862	16904
13476	15633	
~~13502~~ (3rd out)	15641	
13587	15704	

4.02

* Reject measure. m.s. < k

H.H.M. April 10, 1916.

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1915phae.proj.1047M

Tuesday, March 7, 1916

4.13 S Cassiopeiae.

Plate No.	Magn.	
ac 13383	m.s. < 12.3	
ac 14915	m.s. < 12.0	
ac 14901	m.s. < 11.3	
ac 8246	m.s. < 12.0	
ac 14260	.	off edge
ac 14770	.	Too poor.
ac 8272	m.s. < 10.5	
ac 6781	m.s. < 11.3	
ac 6993	m.s. < 11.3	
ac 7198	m.s. < 12.0	
ac 16249	9.9	Comp. h. E
ac 16977	m.s < 12.0	
ac 8949	m.s. < 12.0	
ac 9899	m.s. < 12.0	
ac 17182	m.s. < 12.0	
ac 11960	m.s. < 11.3	
ac 10947	m.s. < 11.3	
ac 12112	m.s. < 12.7	
ac 17086	m.s. < 13.1	
ac 12203	m.s. < 12.7	
ac 10966	m.s. < 12.0	
ac 12195	m.s. < 13.1	

Plates on which variable is not seen, and which are too poor to measure.

ac 6655	ac 11863	ac 13804	ac 14314
7193	12006	13805	15-579
7897	13278	14131	
7972	13803	14139	

(5m out)
4.42

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1915phae.proj.1047M

Wednesday, March 8, 1916

3.42 S Cassiopeiae

	Plate No.	Magn.	
	ac 3887	n.s. < 11.2	Defect in dos. of V_1^2
	ac 8001	9.99 h^2 / V	Comp. h.
		V / h^3 10.14	V = 10.06 07 08

3.47

3.52

ac 4296	n.s. < 11.3	
ac 4214	n.s. < 12.0	
ac 11211	.	V seen but too faint & hazy.
ac 12640	.	Too difficult. Comp. h.
ac 14623	n.s. < 12.0	
ac 6934	n.s. < 11.3	

mc 8977	13.6	Comp. h.
mc 6297	15.1 ?	Extreme limit of vis.
mc 9512	14.8 ?	f

ac 12193	n.s. < 12.7	
ac 4714	.	Too near ε.

Plates either broken and thrown away or missing from covers:

ac 16378 ac 4456 ac 7185 ac 9374 ac 7648
6831 4513 9290 8439

Plates on which variable is not seen and which are too poor to measure

ac 3273	ac 8641	ac 9509	ac 11179	ac 13783	ac 14100	ac 14961
6664	8733	9561	11842	13806	14134	15016
(15m out) 7675	8840	10021	13708	13809	14169	15192
4.55 8374	9007	11151	13782	14095	14277	16460

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1915phae.proj.1047M

Thursday, March 9, 1916

2.50 S Cassiopeiae

Plate No.	Magn.	
ac 5462	m.s. < 11.2	
ac 12302	·	Too near E.
ac 5304	m.s. < 12.0	
ac 5638	m.s. < 12.3	
ac 4666	m.s. < 11.2	
ac 4937	·	calf edge
ac 4669	–	" "
ac 5544	m.s. < 12.3	
ac 4737	m.s. < 12.3	
ac 5779	12.1?	Lim. of vis.

Plates on which variable is not seen, and which are too poor to measure.

ac 4657	ac 4911
4658	4915
4659	4916
4660	4929
4663	4931
4664	5008
4665	5075
4701	5445
4709	5449
4764	5464
4765	5478
4768	5761
4769	7896
4770	13808
4861	

(12 m out)

4.33

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1915phae.proj.1047M

Saturday, March 11, 1916

3 Cassiopeiae

c 2.42

Plate No.	Magn.	
C 4130	.	Do not find region.
I 19036	12.1	
I 27416	.	Too poor
I 23615	m.s. < 13.5	
I 24195	12.5	Comp. v slightly sharp.
I 31096	13.4?	ef
I 33644	m.s. < 14.5	
I 31213	13.4?	ef.
I 32422	13.6?	efg
I 31212	13.4	
I 36160	m.s. < 12.7	T' plate.
I 32437	13.1?	Comp. h.
mC 9680	15.0	Comp. h.
mC 6160	m.s. < 12.7	
mC 3909	11.6	o' > o ?
mC 9479	15.0?	f
mC 9128	14.2	f
mC 6100	m.s. < 14.1	
mC 6904	14.5	
mC 9153	13.8	p
I 36129	m.s. < 13.5	T' plate
I 32423	13.4?	ef.
aC 4496	.	Too poor
		Yellow
mC 6160	m.s. < s²	
mC 3909	h² o v	
mC 9409	m.s. < p	

3.44

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1015phae.proj.1047M

Thursday, March 16, 1916

2.05 S Cassiopeiae

Plate No.	Magn.	
ac 9579	.	Too faint and blurred E.
ac 11152	.	Too much trailed
ac 11347	9.7?	e
ac 11496	10.2?	e
ac 11086	n.s.? < 11.3	Sl. seen, too hazy to measure.
ac 11430	9.9	e
ac 11424	.	Too faint and hazy; v possibly seen.
ac 11387	9.7?	Comp. h.
ac 12037	.	Off edge.
ac 10133	n.s. < 12.0	
ac 10504	.	Too near edge.
ac 12137	10.8?	Comp. h. E.
ac 11285	10.0?	Comp. h.
ac 10044	n.s. < 11.3	
ac 10043	n.s. < 11.3	
ac 12057	n.s. < 11.3	
ac 10967	n.s. < 12.0	
ac 10279	.	Off edge.
ac 10268	n.s. < 11.3	
ac 12258	n.s. < 12.0	
ac 11222	.	Image of V defective? Divided into two parts.
ac 11198	11.3?	Comp. h.
ac 11191	11.1?	ef
ac 12365	n.s. < 12.0	
ac 12130	n.s. < 11.3	
ac 11232	11.0?	Comp. h.
ac 10572	.	Broken; missing.

3.11

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1915phae.proj.1047M

Thursday, March 16, 1916

δ Cassiopeiae

v 3.33

Plates on which variable is not seen, and which are too poor to measure

ac 4931	ac 10554	ac 11941
ac 7893	10573	11950
9500	10658	12025
9501	10697	12018
9502	10751	12048
9503	10844	12049
9519	10883	12056
9558 (Yellow)	10974	12077
9591 (Yellow)	10979	12078
9603	10987	12086
9642	11031	12094
9675	11338	12113
9786	11342	12121
9787	11344	12127
9832	11479	12130
9917	11597	12136
9921	11598	12164
10145	11599	12227
10146	11608	12273
10147	11616	12274
10278	11617	12275
10451	11632	12365
10452	11633	12374
10455	11662	12375
10462	11663	
10487	11669	
10491	11738	
10505	11806	
3.40 10543	11872	

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1915phae.proj.1047M

Monday March 20, 1916

3.35 S Cassiopeiae

Plate No.	Magn.	
ac 15996	.	off edge
ac 16487	.	too faint and poor
ac 9495	.	off edge
ac 1252	m.s. < 11.3	
ac 2244	m.s. < 12.0	
ac 2990	m.s. < 11.2	
ac 338	m.s. < 11.3	
ac 12048	m.s. < 11.3	
ac 12365	m.s. < 12.0	

Plates on which variable is not seen, and which are too poor to measure.

ac 10871	ac 960	ac 9560	ac 10284	ac 11338	ac 12077
	~~1252~~	9562	10296	11382	12078
	2483	9565	10311	11344	12086
	4020	9570	10329	11479	12094
	7898	9576	10417	11597	12113
	7961	9582	10554	11598	12121
	7968	9583	10573	11599	12127
	9483	9594	10609	11608	12130
	9496	9595	10658	11616	12136
	9498	9646	10697	11617	12164
	9507	9659	10751	11632	12227
	9508	9676	10844	11633	12273
	9510	9693	10883	11662	12274
	9518	9717	10889	11739	12275
	9520	9772	10974	12018	12365
	9521	9783	10979	12025	12375
(23m out)	9522	10000	10987	12049	13235
5.10	9530	10001	11031	12056	13280

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1915phae.proj.1047M

Wednesday, March 22, 1916

9.50

S Cassiopeiae Remeasures:

Plate No.	Magn.	
ac 3679	9.9?	ef.
ac 1818	9.8?	ei
ac 1866	9.7	
ac 1877	10.1?	: ef
10.05 ac 1751	9.7?	Comp. v slightly sharper.
ac 9528	.	Plate broken, – crack over region

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1915phae.proj.1047M

Monday March 27, 1916

5.05 S Cassiopeiae Remeasures.

Plate No.	Magn.	
ac 15967	12.1?	Comp. h f.
ac 16044	9.8	
ac 15996	11.24 0 1 V, V 10, 11.34	Comp. h. V = 11.29
ac 15954	.	Too faint and uncertain
ac 2221	.	Not seen, too poor to measure
ac 16008	11.0?	Comp. h.
ac 16043	10.2?	Comp. h.
ac 9027	.	Not seen, too poor to measure. Object near the foc. of v. in image from older exposure
ac 15974	11.4?	f Image double
ac 7241	m.s.<11.3	If seen, too faint + hazy.

5.25

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1915phae.proj.1047M

Wednesday March 29, 1916

S Cassiopeiae Remeasures.

Plate No.	Magn.		
ac 12900	11.3?	Comp. h.	f
ac 12879	12.0	T' plate.	f

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