19179hae.proj. .702B

KG
11365
701

Book 2

Spectrum work

Dorothy W. Block

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KC.11365.701

Abrev. used in recording measures of o Ceti spectrum.

G = light generally distributed.
R = " all toward red.
V = " " " violet.
Bot. = Bottom of line measured.
Top = Top " " "
M = Many breaks distinctly seen.
F = Faint spectrum.
D. = Difficult to measure. D.W.B. Oct. 23, 1917
d = Trailed, ~~or brightest~~
P = Poor plate.
C = Light strong in center of spectrum.

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Any scale measures recorded in this book, although arranged in regular order on the page, were observed promiscuously. D. W. Block.

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C plates for superposition to give positions of Hydrogen lines:—

C 282
11532
2789
2810
5101
790
2470
9825
1417

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Tuesday Oct. 23. 1917

N.B. at Bottom of this page

Measures of lines in o Ceti (Glass side of plate)

F = faint spectrum. m = many breaks distinctly seen. 11:00

N.C. G = Generally distributed light. R = light talks toward red end. V = " " " violet. Bot. = Bottom of line measured. Top = Top " " "

Plate No.	Sc.	y	δ	S	n	t	i	K	Other lines	Distribution of light	Remarks
C 280	B	12.0	14.7	10.7	10.0	9.0	9.2		a 9.0 B 9.3	Generally dist. except in violet.	Bottom of lines 4227 broad.
							Many breaks.				
C 245	B	9.9	11.2							Red end only	Bottom of line Faint spectrum
C 288	B	10.9	14.5	11.5	10.5	9.0	9.2		B 9.5	Generally distributed	Bottom. 4227 well marked
							Many breaks.				
C 269	B.	10.0	12.3							Generally distributed	Bottom. F. D
C 9806	B	10.3	11.9	10.6	9.9	8.5	10.0		B 9.2 C ? 10.0	G. I.	Bot. 4227 sharp
C 1622	B	10.3	10.8							R. I	Bot. F.
C 9706	B	10.4	10.9							G. M.	Top. 4227 sharp.
C 765	B	8.0	9.8							R. F.	Bot.
C 10681	B	12.7	14.5	10.5						G. M.	Bot. 4227 sharp.
C 9713	B	10.3	10.9							R	Bot.
C 10761	B	10.6	12.0	9.1						G	Bot.
C 9882	B	11.8	12.9	10.8	10.0	8.0	9.2			G D. 4227	sharp Bot.
C 8816	B	10.5	11.0							R. D.	Top. Bt. edge.
C 10777	BA	11.8	13.2	7.7	4.5				B 4.0	G	Top.
~~C 9710~~											
C 9898	BA	10.5	13.2	10.0	7.8	7.7	7.7		B 5.2	G. I. D.	Bottom. 4227 sharp.
C 10666	B	12.5	13.5	9.8						G D 4227	sharp. Bot.

In using scale B, use broader portion of line marked "0" for comparison with spectrum lines.

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1917phae..proj...702B

Wednesday Oct. 24, 1917

Measures of lines in o Ceti

10:30

Plate No.	Sc.	γ	δ	ε	ζ	η	i	K	Other Lines	Remarks.
C 10707	A	8.9	11.5	7.5	4.5	4.0	4.3		4227 well marked.	Bot. I. D. G.
C 7421	B	10.3	11.0	8.9						Bot. D. R
C 9984	B	10.5	12.0	10.8	10.5	10.2	10.3		B 10.1 4227 sharp.	Top. G. M.
C 9826	B	10.8	11.9	10.7 4227	9.8	9.0	9.6		R 9.2 4227 sharp.	I. Top of top image. M. G.
C 10657	A	8.3	10.5							Bot. I. M. G.
C 9808	A	9.9	11.3	7.5	4.7	?	4.5		4227 sharp.	I Top of top image. G.
C 10636	A	5.5	9.7							Bot. R.
C 2843	B	9.8	10.3							Bot. R. F.
C 9785	B	10.6	11.9	10.0						I Top of top image G.
C 9705	B	10.5	11.5							I Bot of top image R.
C 9872	B	10.8	12.6	10.5	9.7	8.0	8.1	9.1	4227 sharp.	Bot. G. M.

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Thursday Oct. 25, 1917

Intensity Lines in o Ceti

10:00

Plate No.	Sc	γ	δ	ε	η	θ	ι	κ	Other lines and Remarks.
C 10652	a	12.7	10.5						Top. R. D.
C 2852	B	10.8	12.3						Top R.
C 1614	B	10.7	10.9						Bottom R.D.
C 9889	a	7.0	10.0	9.0	7.0	6.0	7.0		D. Central part of line missing. I Middle Image g.
C 9930	B	10.6	12.3	10.2	9.3	8.0	8.1		B<8.0 4227 sharp. Top g.
C 8788	B	10.1	11.2						Bot. R. 7. d.
C 1441	B	14.8	15.0	~~10.9~~	10.1	8.9	9.0		B 8.8 4227 sharp. Bot. g. D.
C 9827	a	9.0	10.8	8.3	6.7	5.0	5.3		B 5.8 4227 sharp. I Bot. g.
C 9748	a	10.0	12.2	6.8	4.3	<4.0	5.8		D. B 4.8 4227 sharp. Bot. g. m.
C 10686	a	12.0	13.0	7.7	4.8	4.5	6.0		D. 4227 sharp. Bot. g. m.
C 9747	a	10.5	11.8	6.8					D. I Top. R.
C 10723	B	10.9	12.8	9.8	8.0				Top.

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1917phae..proj...702B

Friday, Oct. 26, 1917

Intensities of lines in σ Cet.

9:45

Plate No.	Sc	γ	δ	ε	η	ζ	ι	κ	Other lines and Remarks.		
C 9734	B	10.4	10.8	9.7	8.0	<8.0	8.9		4227 sharp	Bot.	G.
C 9669	B	9.5	10.7							Bot.	R.
C 9859	A	7.8	10.7	8.0	7.0	5.9	7.8			Bot.	G. R. D. Left edge measure
C 10755	B	13.8	14.7	10.5	8.8	~~9.0~~	~~8.0~~		E 9.5 B 8.2	I. Top.	G. M. D.
C 9678	B		9.2							Bot	R R. F.
C 10817	A	12.7	14.6	9.7	6.0	4.5	4.5		B 5.0 | 4227 sharp	Top	G. M. D
C 9858	B	10.5	11.7	10.4	9.8	9.0	10.0		B 8.6	Bot.	G. Left edge of δ D.
C 10674	B	10.8	11.2	9.2						I. Bot.	R. D.
C 10736	B	10.7	10.9							I. Top. Bot. image	R. R. edge of lines D.
C 9758	B	10.2	10.8	8.9	must	seem in	Bot. image			I. Bot.	R D.
C 10629	B	8.8	9.3							Bot.	R. R. Fogged
C 9760	B	10.7	11.3	10.1	8.3		8.8		B 9.0 | 4227 sharp	Bot.	G. M. some appear like bright lines

2:00

C 1480	B	15.8	16.6	13.5	12.5	10.8	10.9	9.4	9.3	8.0	9.7	B 10.7	F 9.7	I Bot.	G. D.
C 9679	B	9.3	9.8											Bot.	R. F.
C 7463	B		9.8											Top.	R. F.
C 9799	B	10.8	11.5	9.7	8.0	8.0	8.2		B 8.0					Bot.	G.
C 9804	B	10.3	10.9	9.8	8.5	<8.0	8.3		B 8.0					Bot.	G
C 9683	B	8.8	9.5											Top.	R. F.
C 9976	B	9.8	10.5	8.0										Top.	R. F.
C 9655	B	8.0	9.9											Top.	R. F.
C 10702	B	10.4	11.5	8.0										Bot.	R. & D.
C 1423	A	10.0	13.0											Bot.	R. R. D.
C 9955	B	10.7	12.5	10.3	8.3									I. Top	R D.
C 1474	B	15.0	16.0	12.0	10.8	10.2	10.2							Top.	G. D.

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Saturday Oct. 27, 1917

Measures of lines in σ Ceti.

10:30

Plate No.	Sc.	γ	δ	ε	η	θ	ι	κ	Other lines & Remarks		
C 9684	B	9.7	10.6							Bot.	R.
C 9724	B	10.5	11.2	8.9						~~Bot.~~	C
C 9717	B	10.3	10.8							Top.	C+R
C 701	B.	10.2	~~10.8~~ 10.3	Reversed by mistake therefor changed.						Bot.	C D.
C 9786	B	10.3	10.9	9.8	8.9	<8.0	8.3		4227 sharp	B8.0 I	Top. G.
C 6611	B	~~9.9~~	10.3							F.	Bot. C+R R stronger
C 10695	a	8.2	9.3	4.8					B 4.2		Top. C+R D.
C 7566	B	10.2	10.9								Bot. C<R D.
C 9846	B	10.8	11.8	9.8	9.5	8.3	8.8		B 9.0 4227 sharp	I	Bot. G.
C 9668	B	8.8?	10.3								Bot. C>R
C 1419	B.	edge 13.0	14.3	10.8	10.0	9.0	9.2		B8.8 R9.0 4227 sharp.		Top. G. Fairly lines between γ+δ and δ+H
C 8770	B.	9.8	10.6						double, measure wider edge	I	Bot.

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Monday Oct. 29 1917

Measures of lines in o Ceti.

10:30

Plate No.	Sc	γ	δ	ε	η	θ	ι	κ		Other lines + Remarks.
C6606	B	9.8	10.3						Typ	R.
C9819	a	8.0	10.2	8.0	6.2	4.8	5.8		B5.0 Bot.	G. Left edge D.
C9778	B	10.7	11.5	9.5					Bot.	C+R
C10741	a	10.8	12.7	7.3	4.5	✱			B4.3 Typ	C+R M. measure Edge Plate.
C1424	a	10.0	11.0						Bot.	R.
C9803	B	10.4	10.9	9.5	8.7	8.0	9.0		4227 sharp. Bot	G
C8730	B	10.7	12.0						I Bot	C+R Lower Image
C9942	B	10.8	11.8	10.2	9.2	8.3	8.8		B8.8/4227 sharp. Bot.	G.
C9833	B	10.8	12.7	10.7	10.2	9.3	9.9		B 9.5/4227 sharp I Bot.	G. M.
C1432	B	11.8	12.8	9.9	9.0	8.3	8.0		B 8.0 Typ	G. Edge.
C9821	B	10.8	12.8	8.0	10.5	8.0	9.3		Bot.	G. D.
C9658	B	8.0	10.3						Bot.	R

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Wednesday Oct. 31, 1917

Measures of lines in o Ceti.

10:10

Plate No.	Sc	y	δ	S	η	Φ	i	K	Other lines & Remarks.		
C 9744	B	9.9	10.8	8.9						Bot.	C+R.
C 10726	B	12.5	13.2	10.2	8.0	<8.0	<8.0		B8.0 | 4227 sharp.	Top	C+R. D1
C 2123	A	8.0	11.8							Bot.	R.
C 9822	B	10.2	10.9	9.2						Top	C+R
C 9776	B	10.3	10.9	9.6					Left ghost	Bot	C>R
C 2891	B	10.2	10.9	8.5						Bot.	R.
C 9657	B	9.3	10.7							Bot.	C+R
C 15221	B	11.2	13.0	10.8	10.3	9.3	9.2		B. 9.0 near η F 8.8	Top	g. Outer broad mean R edge.
C 9716	B	9.8	10.8							Bot.	C+R
C 9712	B	9.7	10.4							Bot	R.
C 1420	B	15.5	16.5	12.6	10.9	10.3	10.5		V 8.0 B9.8 | F9.0 | 4207 sharp |	Bot	g C+R D1 very bright
C 8769	B	10.6	10.9							2 Bot	C+R
11:15											
2:50											
C 12157	B	9.5	10.7	8.0						Bot	C+R
C 12089	B	9.0	10.2							Top	R
C 16717	B	13.5	13.8	10.3	8.9	8.0	9.0		B10.5 | B8.8	Bot.	g. M. Fine lines but g=8.5
C 11496	B	13.7	15.8	10.5	9.3	9.0			B 10.8 4227 sharp | B10.0	Bot	g. Fine lines but g=8.5

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Thursday Nov. 1, 1917

Measures of lines in o Ceti.

10:15

Plate No.	Sc.	γ	δ	ε	η	φ	i	κ	Other lines & Remarks.		
C 17106	a	10.8	12.2	7.7	5.0	<4.0	4.0		B 5.2	Bot.	C < R D
C 12108	B	10.1	11.0	8.2						Bot.	C + R
C 12189	B	10.6	13.3	10.4	9.0				B 8.0	& Bot.	g.
~~C 11559~~	~~B~~	~~B 10.3~~	~~12.8~~	~~14.8~~	~~11.0~~	~~10.3~~	~~8.5~~		4227 sharp.	Top.	~~g. m. D~~
C 11559	B	12.8	14.8	11.0	10.3	8.5	8.0		B 10.3 | B 9.2 | F <8.0 | 4227 sharp	Top	g. m. D.
C 10914	B	11.5	13.8	11.2	10.8	9.5	9.3		B 9.5 | F 8.0 | 4227 sharp	Bot.	g. D.
C 11624	a	13.0	15.0	11.0	10.7	9.8	8.3	6.0	B 6.0 | F 5.2 | λ 5.0	Bot.	g. P. D. Isoch.
C 9685	B	10.2	10.7							Bot.	C + R
C 16723	B	B 10.8	δ 14.8	δ 15.0	ε 10.9	η 10.3	φ 9.9	i 10.0	B 9.5	4227 sharp	Bot g.
C 11563	B	11.2	12.5	10.9	10.5	10.0	10.0		B 9.8 F 8.8	4227 sharp.	Bot. g
C 10921	B	9.3	10.7						λ | m | ν | B | F		Bot. C + R F
C 11632	B	10.2	13.0	11.0	10.8	10.5	10.3	9.8	λ 9.5 | m 8.0 | ν 7.5 | B 10.0 | F 10.2		Bot g. D. P. Isoch.
C 16724	B	13.5	14.2	10.5	9.3	7.3	8.3		B 10.2 B 8.3		Top g. Iso.
11:45											
2:15											
C 11599	B	12.0	14.0	10.8	10.8	10.3	10.2	9.0	i 9.0 | m 8.0 | ν 7.0		
C 12199	B	10.3	10.8	9.3					B 10.2 F 10.2		Bot g D Iso.
C 11564	B	10.5	10.8	9.8	9.0	8.0	8.0		B 8.0	Bot.	C + R
C 10924	B	10.8	12.8	10.2	9.1					Bot.	C < R Iso
C 11633	B	12.5	13.8	11.8	10.8	10.5	10.5	9.8	~~B 9.7 m 9.1 ν 8.7~~	Top	C + R D.
C 16725	B, γ, δ, ε, η								L 10.3 B 10.3 F 10.6	Bot.	g. D.
~~C 11498~~									Lines reversed.		C + R. 4227 sharp

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1917phae.proj..702B

Friday Nov. 2, 1917

Measures of lines in o Ceti

10:15

Plate No.	Sc.	ζ	γ	δ	ε	η	q	i	K	λ H	F			Other lines		Remarks
C 11498	B	10.6	12.8	~~13.8~~	~~10.9~~	10.3	9.0	8.8				m 9.3	L 9.2	B 9.5	4227 sharp	Bot g Fine lines dot δ, ε, ζ
C 16718	B	10.8	12.8	11.8	10.4	9.1	9.0	9.3				mw 9.3		B 9.1	4227 sharp	Bot g.
C 17107	B	11.5 →	12.3 →	10.3 →	8.0 →		<8.0	8.0						B 8.3	4227 "	Bot. g m.
C 12097	B		9.9	10.9	8.0		B not seen									Bot. C & R
C 12149	B		10.5	12.8	9.5	8.0	<8.0	<8.0						B 8.0		Bot. g. m.
C 11590	B		11.0	12.0	10.7	10.4	9.3	9.2	8.0	8.0	8.8			B 9.3		Bot g D.
C 12072	B		10.2	10.6												Bot R. F.
C 12234	B		10.7	12.6	10.5	9.8	8.0	<8.0						8.2		Top g.
C 10606	B		8.3	9.3												Bot R.
C 11644	B		11.8	12.8	10.8	10.5	9.7	9.7	8.3	8.3	9.8	w 8.0		9.2	4227 sharp	Bot Leo. g. D.
C 10964	B		9.9	10.8	9.8	9.2	8.0	<8.0								Bot. g. F.

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1917phae.proj..702B

Monday Nov 5, 1917

Measures of lines in o Ceti.

10:15

Plate No.	Sc.	β	γ	δ	ε	η	θ	ι	κ	λ	μ	B.	F.	M.	L.		4227	Part of line	Remarks
C 15469	B		10.6	10.9	9.5	8.0	<8.0	8.0										Top.	C+R
C 11474	B	11.5	14.0	16.0	12.8	10.8 9.7	9.8					10.5						Bot.	g. D. M edge.
C 16708	B	10.7	12.5	12.8	9.9	8.8	<8.0	9.7									sharp.	Bot.	g. δ+δ Dif.
C 11489	B	10.7	12.7	13.8	10.8	10.2	8.3	8.0				9.4		9.5	9.3		sharp.	Bot.	g. D.
C 16722	B	11.0	14.5	15.3	11.0	10.7	10.4	10.4				9.9	9.2	9.2			sem	2 Bot	g. M. Iso.
C 10649	B		9.8	10.8														Bot.	C+R. F.
C 11610	B		11.0	12.5	10.9	10.7	10.5	9.8	9.7	9.4	9.4	9.5	9.8					Bot	g. D. Iso.
C 10897	B		10.8	12.8	10.8	9.8	8.2	9.0				9.0						Top	g.
C 11558	B	8.8	12.8	14.9	10.4	9.0	8.9					9.1		9.1	9.4		sharp	1 Top	g. M.
~~C 9820~~	Wrong plate																		
~~C 790~~																			
C 12186	B		10.7	12.5	10.7	9.9	8.0	8.0				9.3					sem.	Bot.	g.
C 11455	B	9.1	10.6	10.9	8.0													1 Bot.	C+R. M.
C 10590	B			10.0														Bot	R.
C 12226	B		9.1	10.8	9.0													Bot.	C+R. F.
C 11585	B		10.9	11.5	10.8	10.4	~~10.3~~ ~~10.7~~ ~~9.0~~ ~~8.0~~ ~~9.0~~					9.1	9.0			U 8.3	sem	Bot	g. D.
C 12 145	B		10.3	11.9	9.2	<8.0						<8.0					sharp	Bot.	g. M.
C 11760	Cannot identify																		
C 15467	B		10.7	11.0	9.2	8.0	<8.0	8.2				8.0					sem	Bot.	g.
C 11473	B	10.8	14.0	14.5	10.7	9.9	8.7	8.9				9.1		10.3			sharp	Bot.	g. D.
C 15518	B		10.8	11.2	9.9	8.2											sem	Top.	
C 11488	B	10.1	11.2	11.5													sem	2 Top	C+R

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Tuesday Nov. 6 1917.

Measures of lines in o Ceti.

10:15.

Plate No.	Sc.	β	γ	δ	ε	η	Φ	i	κ	λ	μ	ν	B	F	M	L	4227	Part of line	Remarks.
C 16721	B	10.5	12.8	13.3	10.7	10.0	9.1	9.0	8.0			<8.0	9.3		8.3	8.0	seen	Bot.	g. γ+δ Dif.
C 2867	B		10.7	12.3	10.4	9.0	8.0	8.3									sharp	Top.	g.
C 10845	B		10.4	11.0	9.7	8.2											seen	Top	C+R
C 11544	B	10.4	12.5	12.9	10.8	10.2	8.0	<8.0					9.1		9.1	9.2	sharp	Bot	g.
C 10894	B		10.9	12.3	10.9	10.2	9.0	8.2					9.4				seen	Bot.	g. D.
C 12178	B		10.6	11.6	10.8	9.8	<9.0	<9.0					9.2				sharp	Bot.	C+R D.
C 11449	B		9.2	9.4														Bot	C+R D Leo. P.
C 10584	B		?	9.9														Bot.	R
C 12224	B		10.2	10.9	10.1	8.0							8.0					Bot.	C+R
C 11579	B		11.7	13.8	10.3	9.8	8.0	8.0	γ	η	Φ	i	double - measure blue				side sharp	Bot	g. D.
C 12138	B		10.7	12.2	8.9								8.0					Bot	C+R
C 11743	B		8.8	9.0													seen	Bot	P. F.
C 15453	B		10.7	11.2	9.9	8.0		8.0									sharp	Bot	g.
C 11468	B	10.8	12.8	14.5	10.7	10.2	9.0	8.3					9.7			10.1	sharp	Bot	g.
C 15497	B		10.8	11.8	10.1	9.0	8.0	8.0					9.0				sharp	Bot.	g.
C 11485	B	10.6	12.7	13.4	10.9	10.0	8.0	8.0					9.1		9.8	9.3	sharp	Bot	g.
C 12292	B		9.8	10.9	10.2	9.0							8.0					Bot.	g.
C 10791	B		10.9	12.0	9.0	<8.0												Top	C+R. D.

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1917phae.proj..702B

Wednesday Nov. 7, 1917

Measures of lines in o Ceti.

10:15

Plate No	Sc	β	γ	δ	ε	ζ	η	θ	i	κ	λ	μ	ν	B.	F.	M.	L.	4227	Part of line	Remarks.
C1431	B		11.8	12.0															Bot.	R. D.
C10893	B		10.9	12.8	10.4	9.7	8.0	8.0						8.5			8.0	seen	Bot.	q.
C11538	B	10.2	11.9	13.0	10.8	9.8	<8.0	<8.0						8.0		8.8	9.0	sharp	Bot.	q.
C12173	B		11.2	12.8	10.7	9.9	9.0	9.1						9.5				seen	Bot	q. D.
C11448	B	9.7	11.3	11.7	9.3	<8.0								<8.0		8.0		seen	Bot.	q (γ δ D.)
C10024	B		10.2	10.8	10.2	9.3	8.3	8.3										seen	Pop	q.
C12202	B		9.8	10.7	8.4	8.0												seen	Bot	C + R.
C11575	B.		11.3	11.8	10.7	10.6	10.3	10.2	9.1	9.0	<8.0	8.5		9.2	9.0			seen	Bot	q D
C12195	B		10.7	11.8	10.5	9.1	<8.0	8.0						8.8				seen	Bot	q.
C12240	B		9.0	10.8	8.8	8.0		<8.0						<8.0				seen	Bot	q.
C11596	B		10.4	10.8	10.3	10.1	9.3	9.3	<8.0	<8.0				9.1	8.4			seen	Pop	q.

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1917phae.proj..702B

Thursday Nov. 8, 1917

Measures of lines in o Ceti

9:10

Plate No.	Sc.	β	γ	δ	ε	η	θ	ι	κ	λ	μ	ν	B.	F.	M.	L.	422.7	Part of line	Remarks
C 12151	B		10.0	11.1	9.2								<8.0				seen	Bot.	C+R
C 12076	B		8.9	10.0														Bot.	R
C 15473	B		10.3	10.8	8.9	<8.0		(8.0					<8.0				seen	Top	C+R
C 11475	B	11.7	14.0	15.0	12.0	10.8	10.1	9.9					10.4				seen	Bot.	g. D. less.
C 16710	B	10.3	12.8	12.8	10.1								8.1				sharp	Bot	g. less.
C 11492	B	10.7	13.3	14.5	10.8	10.3	9.1	8.9					9.5		9.9	9.7	sharp	Top	g + δ2
C 10064	B		9.2	10.2	9.7	8.9											seen	Top	C+R
C 12214	B		9.0	10.8	8.0													Bot	C+R
C 11578	B		10.8	11.0	10.6	10.4	9.9	9.8	8.0	8.0	<8.0	8.0	8.0	<8.0				Red Bot	g. D. less
C 12134	B		10.0	11.0	9.0												seen	Top	C+R
C 11726	B		10.0	10.2	9.0	8.8	8.8											Top	C+R
C 15433	B		10.6	10.9	9.0	<8.0		(8.0									sharp	Bot	C+R

1:30

C 11467	B	10.5	~~11.0~~	12.2	10.1												seen	Bot.	C+R.
C 13392	B		7.0	8.8														Bot.	R.
C 11483	B		~~11.0~~	12.0														Bot	R. less
C 12282	B		9.8	10.8	9.2	8.0												Bot.	C+R
C 11517	B	10.2	13.8	14.8	11.1	10.1	9.2	9.0					9.8				sharp	~~Bot~~ Top	g.
C 1572	B		10.8	11.1	10.0	9.7	8.8	8.0					8.5	8.0			seen	~~Bot~~ Top	g.
C 10883	B		10.7	12.3	10.4	9.3	8.2	8.0					9.0				seen	Top	g.
C 9832	B		10.7	11.2	10.3	9.8	9.0						9.0				sharp	Bot.	g M
C 12251	B		10.3	12.3	10.2	8.8							8.0					Top	C+R
C 10021	B		10.4	11.9	10.3	9.9	9.0	9.0					9.0				sharp	Top	g.
C 10850	B		8.8	10.0	8.0	<8.0											seen	Bot	C+R
C 11524	B		13.8	16.0	11.2	10.9	10.2	10.1	8.0	8.0		8.0	10.0				sharp	Bot.	g D

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Friday Nov. 9, 1917

Measures of lines in o Ceti.

10:10

Plate No.	Sc.	β	γ	δ	ε	ζ	Θ	i	κ	λ	μ	ν	B	F	M	L		4227	Part of line	Remarks
C 12164	B		10.2	11.3	9.8	8.0												vdn	Bot.	C+R
C 10967	B		10.7	11.2	10.1	9.0	8.0						9.0						Bot	C+R
C 12122	B		8.0	9.2															Bot.	R
C 11533	B	10.3	12.8	13.8	10.8	10.0	8.7	8.5					9.0		8.8	8.5		sharp	Bot.	g. M
C 12170	B		10.7	12.2	10.3	8.8	8.0	<8.0					8.0					vdn	Bot.	g.
C 11447	B	10.2	11.8	12.8	9.8	<8.0												sharp	Bot	g. M.
C 10026	B		10.4	11.5	10.3	10.0	9.3	9.2					9.0					vdn	Top	g.
C 12205	B		10.7	11.8	10.3	9.0							8.0					vdn	Bot.	C+R
C 11577	B		10.8	11.0	10.4	10.1	9.0	9.0					8.3	8.0				vdn	Top.	g.
C 12126	B		10.2	11.8	8.7													vdn	Bot.	C+R
C 11466	B	10.8	12.5	12.9	10.7	9.3							9.0					vdn	Bot	C+R
C 15403	B		10.5	11.0														vdn	Top	R
C 12795	B		10.7	12.0	10.3	8.7	<8.0						8.0					sharp	Bot	C+R
C 11482	B	9.4	12.0	12.8	9.8													vdn	Bot	C+R less
C 12266	B		8.3	10.8	8.8														Bot	C+R F.
C 11714	B		10.8	10.9	10.0	9.0							9.0	9.2				vdn	Bot	C+R
C 11516	B	10.0	12.0	13.0	10.4	10.0	9.0	9.0					9.0					vdn	Bot	g.
C 10645	B		9.2	10.5														vdn	Top	R

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Saturday, Nov. 10, 1917

Measures of o Ceti.

10;15

Plate No	Loc.	β	γ	δ	ε	η	θ	ι	κ	λ	μ	ν	B.	F.	M.	L.		4227	Part Line	Remarks
C 2839	B		10.3	10.9														scan	bet.	R.
C 11515	B	10.4	12.7	13.2	10.8	10.0	9.0	9.0					8-3		*	9.3		scan	bet	g.
C 12264	B	*	9.5	10.8	9.1														bet	g + R
C 11481	B	10.4	12.0	12.8	10.5	8.8							8.3					sharp	bet.	g m.
C 12785	B		10.9	12.3	10.2	9.0	8.0	8.0					8.0					sharp	bet.	g m
C 11460	B	10.8	13.0	14.0	10.9	10.4	9.0	9.0					9.3					sharp	bet.	g m D.
C 15380	B		10.4	10.8														sharp	bet	R.
C 11661	B		10.7	10.9	10.3	10.0	9.2	9.2					9.0	9.8				scan	bet.	g.
C 11084	Too faint																	scan	bet	g
C 12169	B		10.6	12.3	10.4	9.0	8.3	8.3					9.0						bet.	
C 11529	B	10.1	10.8	12.8	10.6	10.0	8.3	8.2					8.3					scan	bet.	g D.
C 10867	B	*	10.4	10.8	9.9	9.0	8.0	8.0					8.0					scan	top.	g.

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1917phae.proj..702B

Monday Nov. 12, 1917

Measures of lines in σ Cet.

10:55

Plate No	Se	β	γ	δ	ε	η	ζ	ι	κ	λ	μ	ν	B	F	m	L		4227	Part of line	Remarks
C 10 859	B		10.5	10.8	10.1	8.5	<8.0	<8.0					<8.0					vsm	F of.	C + R.
C 11525	B	10.4	12.7	13.2	10.7	10.3	9.3	9.2					9.5					sharp	F of.	J. D.
C 12168	B		10.8	12 12	10.6	9.3	8.0	8.0					9.1					vsm	B of	J.
			γ														δ			
C 11062	F00	faint to measure.																		
C 11654	B		10.7	10.8	10.6	10.0	10.0	9.0	9.0				9.7	9.9			10.9	vsm	B of.	J.
C 15376	B		10.4														10.5	vsm	I B of	R.
C 12118	B		10.3	8.9													11.0	vsm	B of.	C + R. m.
C 11456	B		10.4	9.0													10.9	vsm	I B of.	C + R. m
C 12 779	B		11.0	10.7	9.4	9.0	8.3						9.0				12.3	vsm	F of.	J. m.
C 11480	B		10.2														10.5		B of.	R. F.
C 12256	B		10.3	10.1	9.0								8.0				11.8	vsm	F of.	C + R.
C 11513	B	10.4	12.0	10.9	10.3	9.5	9.3						9.5				13.0	sharp	B of.	J. D
C 11574	B		11.0	10.8	10.7	10.3	10.3	8.2	8.2	<8.0	8.2		9.4	9.2			12.8	sharp	F of.	J. m.

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1917phae.proj..702B

Friday Nov. 16, 1917.

Beginning Second Measurement of C Plates.
Measures of o Ceti.

11:00

Plate No	Sc	β	γ	δ	ε	η	θ	ι	κ	λ	μ	ν	R	F	M	L	4227	Print Line	Remarks
C 280	B		11.8	13.8	10.7	9.8	8.9	9.0					9.0				sharp	Bot.	G. M. Streak
C 245	B		10.3	11.9	<8.0													Bot.	R.
C 288	B		10.8	13 D	10.8	10.2	9.2	9.3					9.3				sharp	Bot	G. M.
C 269	B		10.2	11 D														Bot	R.
C 9806	B		10.7	11.7	10.5	9.3	8.0	9.3					9.0				sharp	Bot.	G. C 9.2
C 9706	B		10.2	11.0													clear	Bot.	C & R
C 765	B		8.0	10.2														Bot	G. F
C 1622	B		10.0	10.6														Bot.	R. F
C 10681	B		11.0	13.0	10.0								8.0				sharp	Bot.	C & R. M. D
C 9713	B		9.8	10.5														Bot.	R.
C 10 761	B		10.3	10.8	9.8													Bot.	C & R.
C 9882	B		11.0	12.3	10.8	9.3	9.0	9.2					8.2				sharp	Bot.	G. D.
C 8816	B		10.0	11.0	<8.0													Bot	R.
C 10 777	A		10.8	13.0	7.2	5.0	<4.0	<4.0					4.0				sharp	Top	G. M.
C 9898	A		10.8	13.0	9.0	8.0	7.0	7.0					5.0				sharp	Bot.	S-Top image D
C 10666	B		10.8	12.0	9.3												sharp	Bot.	C & R. D
C 10 707	B		10.8	10.9	9.9	8.0	<8.0	8.0									clear	Bot.	G.
12:00																			
12:20																			
C 7402	B		10.0	10.8	9.0													Bot	C & R.
C 9984	B		10.5	10.9	10.0	10.8	10.3	9.9	9.8								sharp	Top	G.
C 9826	B		10.5	11.0	10.3	9.3	9.0	9.2					8.0				sharp	Top	G. M.
C 10657	B		10.0	10.8													clear	Bot.	G.
C 9808	B		10.2	11.0	9.9	8.7	8.0	8.2									sharp	Top image Bot	G. M.
C 10636	B		9.3	10.7														Bot	R.
C 2843	B		9.2	9.9														Bot	R. F.
C 9785	B		10.2	11.0	9.0												sharp	Top image Top	C & R. M.
12:45																			

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1917phae.proj..702B

Wednesday Nov. 21, 1917.

Measures of o Cetí

11:30

Plate No	Sc.	β	γ	δ	ε	η	θ	i	κ	λ	μ	B	F	M	L	4227	Part of line	Remarks
C9705	B		10.8	11.0												seen	Bot.	R.
C9872	B		10.9	12.0	10.6	9.5	8.0	8.7				9.0				sharp	Bot.	G. M.
C10652	B		10.7	12.1												seen	Top.	R.
C2852	B		10.9	12.2	9.3											seen	Top.	C+R
C1614	B		10.6	10.8	9.1	<8.0										seen	Bot.	C+R D
C9889	B		10.0	10.8	10.2	9.5	9.2	9.3								seen	D mid. image	G. Sp.
C9930	B		10.3	11.2	10.0	9.1	8.0	8.1								seen	Top.	G. D.
C8788	B		10.0	10.8													Bot.	R. F.
C1441	B		14.0	14.8	10.4	9.3	8.0	8.0				8.9				sharp	Bot.	G. M. D.
C9827	B		10.6	11.5	10.3	9.7	8.0	9.0				8.2				seen	Bot.	G.
C9748	B		10.7	11.5	9.3	8.0		8.8								sharp	Bot.	G. M.
C10686	B		11.0	12.0	10.0	8.1	8.0	8.4				9.0				sharp	Bot.	G. D.
C9747	B		10.4	11.2	9.2											seen	D Top.	R
C10723	B		10.7	12.2	9.2											seen	Top.	C+R
C9734	B		10.3	10.6	9.2	8.0	<8.0	8.2								sharp	Bot.	G. M.
C9669	B		9.1	10.2												seen	Bot.	R
C9859	B		10.7	11.3	10.0	9.7	9.0	9.7				8.2				seen	Bot.	G. D.
C10755	B	9.4	12.2	13.5	10.7	8.0						8.0				sharp	Top.	G. M.
12:30																		
+ 12.50																		
C9648	B			9.2													Bot.	R. F.
C10817	B		11.5	13.0	10.5	9.2	8.0	8.0				8.3				sharp	Top.	G. M. D.

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1917phae.proj..702B

Thursday, Nov. 22, 1917

Measures of σ Ceti.

10:15

Plate No.	Sc.	β	γ_D	δ D.	ε	η	ζ	ć	κ	λ	μ	ν	B	F	M	L	H27	Pat line	Remarks
C 9858	B.		10.8	12.5	10.4	9.9	9.8	9.3	<8.0	<8.0			8.0				cen	Bot.	G. M.D.
C 10674	B		10.7	11.0	9.0												cen	Bot	C & R
C 10736	B		10.5	10.9	8.0												cen	Top.	C & R M
C 9758	B		10.8	11.2	10.3	9.0	9.3										cen	Bot	C & R.

11:00

Too dark to continue.

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1917phae.proj..702B

Friday, Nov 23, 1917

Measures of o Ceti

12:00 Dark Day.

Plate No	Sc	β	λ	δ	ζ	η	θ	ι	κ	λ	μ	ν	BF	F	MF	4227	Part of Line	Remarks
C 10629	A		9.5	10.8													Top.	R. O. Foggy
C 9760	B		10.5	11.1	10.2	8.8	8.2						8.9			sharp	Bot.	G. Sh
C 1480	B		14.8	14.5	12.8	11.0	10.5	9.0	9.0	8.0	10.0		10.2	9.7		clear	I Bot.	G. D.
C 9679	B			9.6													Bot	G. F.
C 7463	B			9.7													Top	R.
C 9799	B		10.3	10.7	9.8	8.8	8.0	9.0					8.0			sharp	Bot.	G. Sh.
C 9804	B		10.2	10.8	9.7	8.0		9.0					8.0			sharp	Bot.	G. Sh.
C 9683	B.		8.8	9.2													Top.	R.
C 9976	B		9.3	10.4	8.0												Top.	R.
C 9655	B		8.0	9.9													Top	R.

12:35

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1917phae.proj..702B

Saturday, Nov. 24, 1917.

11:20

Measures of o Ceti.

Plate No.	Sc	Q	γ	δ	ε	η	Θ	ι	κ	λ	μ	ν	OBF	MZ	4227	Pos'n Line	Remarks
C 10702	B		10.5	10.8	13.0										seen	Ast	C & R
C 1423	B		10.7	12.5												Ast	R. D.
C 9955	B		10.5	11.3	9.9	8.1									seen	Pp	C & R.
C 1474	B		13.0	16.0	12.4	10.8	10.3	10.3								Pp.	G D.
C 9684	B		9.4	10.2											seen	Ast.	R M.
C 9724	B		10.3	10.7	8.2										sharp	Ast.	C & R M.
C 9717	B		9.0	10.2												Ast.	R.
C 701	B		9.5	10.5												Ast	R.
C 9786	B		10.8	11.7	10.2	9.0		8.8				9.0			sharp	Pp.	G M
C 6611	B		9.2	10.0												Ast.	R F
~~C 10675~~																	

11:45

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1917phae.proj..702B

Thursday, Dec. 6, 1917

Measures of o Ceti.

10:45

Plate No	Jr	β	γ	δ	ε	m	d	i	k	λ	μ	ν	B	F	M	L	H 2.27	Part of Line	Remarks
C 10695	B		10.5	10.8	9.0												pen	Top	C+R.
C 7566	B		10.7	10.9														Bot.	R M.
C 9846	B		10.8	12.8	10.6	9.9	9.0	9.3					8.8				sharp	1 Bot	G M.
C 9668	B			10.3														Bot	R.
C 1419	B	9.0	13.0	14.0	10.6	9.9	9.0	9.1					9.0				sharp	Top	G. D.
C 8770	B		9.8	10.8														1 Bot	R
C 6606	B		9.0	9.8														Bot.	R. F.
C 9819	B		10.4	10.7	10.0	9.3	9.0	9.7					8.6				pen	Bot.	G.
C 9778	B		10.4	10.8	9.2												pen	Bot	C+R. M
C 10741	B	8.0	10.9	11.0	9.4	8.0							8.0				sharp	Bot.	G. M.
Q 1424	B		10.9	10.9														Bot	R. R. D.
C 9803	B		10.2	10.7	9.5	9.2		8.3									sharp	Bot.	G. M.
C 8730	B		10.6	11.1													pen	1 Bot.	R.
C 9943	B		10.5	11.0	10.3	9.3	8.8	9.0					9.6				sharp	Bot	G M.
C 9833	B		10.4	11.0	10.5	9.8	9.0	9.2					9.1				sharp	1 Bot.	G. M.
C 1432	B		11.0	12.0	10.0	9.0	8.0	8.0									pen	Top (Edge)	G. M
C 9821	B		10.5	11.0	10.0	9.0	8.0	8.8					8.2				sharp	Bot.	G. M. D.
C 9658	B		9.3	10.3														Bot.	R
C 9744	B		10.2	10.5	9.0												pen	Bot	C+R.
C 10726	B	9.2	11.5	12.5	10.3	8.3							8.5				sharp	Top	G. M.
C 2123	B		9.5	10.8														Bot.	C+R. F.
C 9822	B		10.1	10.6	9.1												pen	Top	C+R
C 9776	B		10.4	10.9	9.2												pen	Bot.	C+R
C 2891	B		10.2	10.9	8.0												pen	Bot.	C+R.
C 9654	B			10.2														Bot.	R.
C 1522	B		12.0	13.0	10.7	10.6	9.2	9.2					8.0	8.0			pen	Top	G. M.

12:30

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1917phae.proj..702B

Friday, ~~Dec.~~ Dec. 7, 1917

Measures of o Ceti.

11:00.

Plate No.	Sc	β	γ	δ	ε	η	θ	ι	κ	λ	μ	ν	B	F	4227	Appt.	Remarks
C 9716	B		10.2	10.8											scen	Bet.	R.
C 9712	B		9.7	10.2												Bet.	R. M.
C 1420	B	10.0	13.0 D	13.8 D	11.9	10.9	10.4	10.5	8.0			8.5	9.8	9.1	sharp	Bet.	G. M.
C 8769	B		10.4	11.0												I Bet.	R.
C 12157	B		9.5	10.7	8.4										scen	Bet.	C+R.
C 12089	B		~~8.0~~	10.1												Bet.	R.
C 16717	B	10.7	12.8	12.8	~~10.4~~ 8.5	8.5	8.0	8.6					8.5		scen	Bet.	Doo. G. M.
C 11496	B	10.5	12.8 D	13.0 D	10.9	10.4	9.8	9.8					10.0		sharp	Bet.	G. M.
C 17106	B		11.0 D	11.2 D	9.7	8.0		8.0							scen	Bet.	G. M.
C 12108	B		10.1	10.9	8.0											Bet.	C+R.
C 12189	B		10.7	12.0 D	10.3	8.2							8.0		scen	Bet.	C+R.
C 11559	B	10.2	12.3 D	13.5 D	10.6	10.3	8.0	8.0					9.2	8.0	sharp	Top.	G. M.
C 10914	B		11.5	12.6	11.3	10.5	9.6	9.4					9.6	8.1	scen	Bet.	G. M.
C 11624	B		11.8	12.8	10.9	10.6	10.4	10.3	8.1	8.0			9.3	9.4	scen	Bet	Doo. G D
C 9685	B		10.1	10.8											scen	Bet.	R.
C 16723	B		10.8	12.5 D	12.5 D	10.7	10.4	10.2	10.1				9.2		scen	Bet	G.
C 11563	B		11.0	11.1	10.9	10.4	9.8	9.7					9.2	8.0	scen	Bet.	G.
2:00																	
C 10921	B		9.8	11.0	9.0											Bet.	C+R.
C 11632	B		11.0 D	12.0 D	11.2	11.0	10.7	10.6	9.8	9.8	9.0	9.3	10.2	10.3	scen	Bet	Doo. G.
C 16724	B	10.4	12.5	12.7	10.4	9.2	8.1	8.1					8.8		scen	Top.	Doo. G.
C 11599	B		12.0	12.5	11.0	10.9	10.4	10.3	9.0	9.0			10.0		scen	Top	Doo. G D.
C 12199	B		10.5	12.5	10.4	9.0									scen	Top.	G.
C 11564	B		10.7	10.9	10.2	9.3										Bet.	Doo. C+R.
C 10924	B		10.6	11.2	10.3	9.0										Top.	C+R.
C 11633	B		11.0 D	12.0 D	11.0	11.0	10.7	10.7	10.2	10.2	9.0	9.0	10.3	10.4	scen	Top	G.

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1917phae.proj..702B

Saturday Dec. 8 1917.

Measures of o Ceti

10:00

Plate No	Sc	β	γ	δ	ε	η	θ	ι	κ	λ	μ	ν	B	F	4227	Part of line	Remarks
C 11498	B	10.5	12.3	12.8	10.7	10.3	9.0	8.8					9.3		sharp	Bot.	g. M.
C 16718	B	10.9	12.0 D	12.0 D	10.3	9.2	9.0	9.2					9.0		sen	Bot.	g.
C 17107	B		12.0	12.0	10.3	9.0	—	9.0							sharp	Top.	C+R.
C 12097	B		10.2	10.5	8.0										sen	Bot	C+R
C 12179	B		10.4	11.5 D	9.5	8.0							8.0		sen	Bot	g
C 11590	B		10.9 D	11.1 D	10.8	10.3	9.9	9.7	8.0	8.0			9.1	9.0	sen	Bot.	g
C 12072	B		10.0	10.5											—	Bot.	R. F.
C 12234	B		10.5	11.7 D	10.4	9.8									sen	Top	C+R.
C 10964	B		9.9	10.7	10.0	9.2	8.0								sen	Bot	C+R. F.
C 10606	B		9.0	9.3											sen	Bot	R.
C 11644	B		11.0	12.0	10.5	10.3	9.8	9.8	8.2	8.2					sen	Bot	2 so. g. R.
C 15469	B		10.2	10.7	9.3	8.5	8.8								sen	Top	C+R.
C 11474	B	12.0	14.0	14.0	11.5	10.5	9.8	9.8					10.2		sen	Bot	g. D.
C 16708	B	10.5	12.0 D	12.0 D	10.3	8.2	—	9.3							sen	Bot	g
C 11489	B	10.5	12.0 D	12.5 D	10.7	10.1	8.0	8.0					9.5		sharp	Bot	g.
C 16722	B	11.0	14.5 D	14.5 D	11.0	10.7	10.2	10.2	—	—	8.0		9.8		sen	Bot.	g
C 10649	B	×	10.2	10.7											—	Bot.	R. F.
C 11610	B		12.3 D	13.0 D	11.1	10.9	10.4	10.4	9.5	9.5	9.2	9.2	9.7	9.7	sen	Bot	g
C 10897	B		10.9	12.7	10.3	9.0									sen	Top	g. M. D.
C 11558	B	9.0	12.8	14.0	10.4	9.0	9.0						9.0		sen	Top	g. M.
C 12186	B		10.7	12.0 D	10.6	9.5	8.0	8.3					9.0		sen	Bot	g.
C 11455	B	9.9	10.7	10.9	9.0										sen	Bot	C+R
C 10590	B		##	10.0											—	Bot.	R. F.
C 12226	B		9.2	10.4	9.0										—	Top	C+R. D.
C 11585	B		10.9	11.5	10.8	10.7	10.3	10.3	9.0	9.0	7.0	8.0	10.0	9.8	sen	Bot.	g

11:45

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1917phae.proj..702B

Monday Dec. 10, 1917

Measures of o Ceti.

10:30

Plate No	Sc	β	γ	δ	ε	η	Θ	i	κ	λ	μ	ν	B	T	4227	Part of line	Remarks
C 12145	B		10.6	11.8 D	9.7	<8.0							8.0		pcln	Top.	C+R.
C 11760	Can not identify.																
C 15467	B		10.6	10.9	9.4	<8.0	—	8.0					8.0		sharp	Brt.	g
C 11473	B	10.9	12.5 D	13.5 D	10.5 D	9.9	8.9	8.3					9.5		sharp	Brt.	g
C 15518	B		10.5	10.9	10.2	8.8	<8.0						8.0		pcln	Top.	C+R.
C 11488	B	10.3	10.9	11.8	10.3										pcln	I Top.	C+R.
C 16721	B	10.4	11.5 D	11.8 D	10.5	10.1	9.0	9.0			<8.0		9.0	<8.0	pcln	Brt.	g
C 2867	B		10.9	11.8	10.3	9.1	—	9.0							sharp	~~Top~~ Brt.	g m.
C 10845	B		10.4	11.0 D	9.5	8.3										I Top	C+R.
C 11544	B	10.2	11.0	11.5 D	10.0	8.1	8.0						8.9		sharp	Brt.	g m
C 10894	B		11.0	12.0 D	10.9	10.2	9.0	8.0					9.2		sharp	Brt.	g.
C 12178	B		10.8 D	11.5 D	10.5 D	9.8	<8.0	<8.0					9.3		pcln	Brt	g.
C 11449	B		8.0	9.0											—	Top.	R. F.
C 10584	B		9.5 2	9.8											—	Brt.	R.
C 12224	B		10.3	10.9	10.1	8.0							8.0		pcln	Brt.	C+R
C 11579	B		11.2 D	12.0 D	10.3 D	9.5 D	8.0 D	8.0 D							sharp	I Brt.	g. m.
C 12135	B		10.5	11.3 D	9.7	<8.0							8.0		pcln	Top	C+R.
C 11743	B		8.5	9.0											pcln	Brt.	R. F.
C 15453	B		10.4	10.9 D	9.3	8.0	—	8.0							sharp	Brt.	g
C 11468	B	10.9	11.5	12.5	10.8	10.1	9.0	8.5					9.3		pcln	Brt	g D.
C 15497	B		10.5	11.1	9.9	9.0	—	8.0					9.5		sharp	Top.	g m.
C 11485	B	10.6	11.8 D	12.5 D	10.6	10.0	8.0	<8.0					9.1		sharp	I Brt.	g m.
C 12292	B		9.8	10.9	10.1	9.0							8.0		—	Brt	C+R.
C 10791	B		10.7	11.0 D	9.0										pcln	Top.	C+R.
C 1431	B		9.0	9.2											—	Top	R
C 10893	B		10.7	11.7	10.3	9.0	8.0						8.0		pcln	Brt.	g m.
C 11538	B	10.3	11.2	12.8 D	10.5	9.6	9.0	<8.0					8.0		sharp	Brt	g m.

11:50

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1917phae.proj..702B

Monday Dec. 10, 1917

Measures of o Ceti.

12:05

Plate No.	Sc	β	γ	δ	S	η	θ	i	K	λ	μ	ν	BF.	4227	Part of line	Remarks
C 12173	B		11.0	12.0	10.6	9.6	8.0	8.2					9.3	clear	Bet.	g
C 11448	B	9.2	10.9	11.0	9.1	<8.0							<8.0	clear	Bet.	g
C 10024	B		10.2	10.9	10.1	9.4	8.0	8.0						clear	Top.	g
12:10																
12:30																
C 12202	B		10.6	12.5 D	10.2	9.0							8.2	clear	Top.	g
C 11575	B		10.9	11.2	10.8	10.5	10.2	10.2	8.7	8.5		8.0	9.2	9.1 clear	Bet	g m.
C 12195	B		10.5	11.3 D	10.5	9.0	<8.0	8.0					8.8	clear	Bet.	g
C 12240	B		10.4	11.0	10.3	9.0	—	8.0					8.0	clear	Top	g
C 11596	B		10.5	10.9	10.4	10.2	9.8	9.8	<8.0	8.0			9.1	8.9 clear	Top	g
C 12151	B		10.0	10.9	9.0									clear	Bet	C+R
C 12076	B		9.0	10.0										—	Bet.	R
C 15473	B		10.0	10.5	9.1	<8.0	·	<8.0						clear	Top.	g
C 11475	B	11.5	13.0	14.0	11.5	10.9	10.0	9.8					10.2	clear	Bet.	lso. gD.
C 16710	B	10.4	12.0	9.9									8.2	sharp	Bet.	lso C+R.
C 11492	B	10.4	13.0 D	14.5 D	10.9	10.4	9.2	9.0					9.7	sharp	Top	g m.
C 10 064	B		9.2	10.3	9.2	8.1							<8.0	clear	Top	C+R
C 12214	B		9.0	10.5	8.0									—	Bet.	C+R
C 11578	B		10.5 D	11.0 D	10.3	10.2	9.9	9.9	8.0	8.0	—	8.0	8.0	clear	Bet	lso g
C 12134	B		10.2	10.9	9.0									clear	Top	C+R
C 11726	B		9.1	9.3	8.0	<8.0	<8.0							clear	Bet	C+R
C 15433	B		10.6	11.0	9.3	·	·	9.0						clear	Top	C+R
C 11467	B		10.2 D	11.2 D	12.3 D	10.1								·	Bet.	C+R
C 13392	B		<8.0	9.0										·	Bet	R F
C 11483	B		12.0	12.3	9.0									·	Bet.	lso C+R

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1917phae.proj...702B

Tuesday Dec. 11, 1917.

Measures of o Ceti

10:30

Plate No.	Sc.	β	γ	δ	ε	η	ϑ	ι	κ	λ	μ	ν	B	F	4227	Part of Line	Remarks.
C 12282	B		9.8	10.5	9.5	9.8									—	Bot	C+R.
C 11517	B	10.5	12.5 10.5	13.3	10.9	10.3	9.2	9.0					9.4		seen	Top	g m.
C 1572	B		10.5	10.6	10.0	9.3	9.0	9.1					8.3	8.3	seen	Top	g.
C 10883	B		10.9	12.5	10.5	9.6	8.2	8.0					9.0		seen	Top	g
C 9832	B		10.7	11.0	10.4	9.6	8.3						8.2		sharp	Bot.	g m.
C 12251	B		10.4	12.0 D	10.3	9.0							8.0		—	Top	C+R.
C 10021	B		10.4	11.2	10.5	9.6	9.0	9.0					9.0		sharp	Top.	g.
C 10850	B		9.8	10.5	9.1	8.0									seen	Top	C+R.
C 11524	B		← 10.6	12.0 D	12.5 D	11.2	10.8	10.3	10.3	8.4	8.4 —	8.0	10.2		seen	Bot	g.
			e	γ	δ	ε	η	ϑ	ι	κ	λ	μ	ν				
C 12164	B		10.4	11.0	9.8	9.0									—	Bot	C+R
C 10967	B		9.0	9.8	8.0										—	Bot.	C+R.
C 12122	B		10.1	10.8											—	Bot.	R.
~~C 11533~~	~~B~~		~~← 10.2~~	~~12.0 D~~	~~13.0 D~~	~~10.8~~	~~10.1~~						~~9.0~~		~~sharp~~	~~Bot~~	~~g m~~
C 11533	B	10.2	12.0 D	13.0 D	10.5	10.1	9.0	8.0					9.0		sharp	Bot	g m
C 12170	B		10.7	12.0	10.3	9.0	8.0	<8.0					8.0		seen	Bot.	C+R.
C 11447	B	10.2	11.1	11.5 D	10.0	<8.0									seen	Bot	C+R.
C 10026	B		10.4	10.8	10.3	9.2	9.0						9.2		seen	Top	g.
C 12205	B		10.6	12.0	10.4	9.1							9.0		seen	Bot.	C+R.
C 11577	B		10.7	10.9 D	10.5	10.2	9.0	9.0					8.2	8.0	seen	Top	g.
C 12126	B		10.2	10.9	8.7										seen	Bot	C+R.
C 11466	B	10.9	11.1 D	12.0 D	10.4	9.3							9.1		seen	Bot	C+R.
C 15403	B		10.4	10.9											seen	Top	R.
C 12795	B		10.6	11.0	10.1	8.8									seen	Bot	C+R.
C 11482	B		12.0 D	12.3 D	9.9										seen	Bot	fav. C+R.
C 12266	B		9.0	10.7	9.1	<8.0									—	Bot	C+R.
C 11714	B		10.6	10.8	10.2	9.2	9.3	—	8.0				9.0		seen	Bot	g.
C 11516	B	10.1	10.9 D	11.2 D	10.5	10.1	9.0	8.8					9.0		seen	Bot	g.

12:15

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1917phae.proj..702B

Tuesday Dec 11, 1917

Measures of o Ceti.

12145

Plate No.	Sc.	β	γ	δ	ε	η	θ	ι	κ	λ	μ	ν	Ξ	F	1227	Part of line	Remarks
C 10645	B		9.8	10.6											clear	Bet.	R. R.
C 2839	B		10.5	11.0											clear	Bet.	R.
C 11515	B		10.4	12.4	12.8	10.8	10.0	8.3	8.1				9.0		sharp	Bet.	g.
C 12264	B		9.2	10.9	9.1										—	Bet.	C+R. R.
C 11481	B	10.3	11.5	11.7	10.4	8.5							8.1		sharp	Bet.	g.
C 12785	B		11.0	12.0	10.2	9.0	8.0	8.0					8.0		sharp	Bet.	g m.
C 11460	B		10.9	12.0	12.8	10.8	10.3	9.2	9.0				9.8		sharp	Bet.	g
C 15380	B		10.3	10.5	<8.0										sharp	Bet.	R
C 11661	B		10.4	10.9	10.3	10.0	9.0	9.0					9.1	9.2	clear	Bet.	g
C 11084	Too faint														~~clear~~		
C 12169	B		10.5	11.5	10.4	9.4	<8.0	8.0					9.1		clear	Bet.	g.
C 11529	B	9.8	11.0	12.0	10.5	9.9	8.1	<8.0					9.0		clear	Bet.	g m
C 10867	B		10.4	10.9	10.0	9.0	8.0	8.0					8.0		clear	Pap.	g.
C 10859	B		10.3	10.9	10.0	9.0	<8.0	8.0					8.0		clear	Pap.	g.
C 11525	B	10.3	12.3	13.5	10.9	10.2	9.1	9.0					9.8		sharp	Pap.	g. m
C 12168	B		10.4	11.5	10.5	9.4	8.2	8.2					9.1		clear	Bet.	g.
C 11062	Too faint.														~~clear~~	~~Bet.~~	g.
C 11654	A		11.0	11.3	10.5	10.4	10.1	9.9	9.0	8.0			9.2	10.2	clear	Bet.	g.
C 15376	B		10.1	10.4											clear	Bet.	R.
C 12118	B		10.2	11.0	9.0										clear	Bet.	C+R.
C 11456	B	10.2	10.8	10.8	10.1										clear	Pap.	C+R.
C 12779	B		11.0	12.0	10.4	9.8	9.0	9.1					9.0		sharp	Pap.	g.
C 11480	B		10.2	10.4											—	Bet.	R. R.
C 12256	B		10.3	11.8	10.3	8.8									—	Pap.	C+R.
C 11513	B	10.3	11.5	12.7	10.8	10.3	9.2	9.2					9.4		sharp	Bet.	g.
C 11574	B		10.8	11.5	10.7	10.6	10.3	10.3	8.0	8.0	8.0		9.3	9.2	clear	Pap.	g.

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1917phae..proj...702B

Friday Dec. 14, 1917

11:30 Measures of o Ceti

Plate No.	Sc	γ	δ	ε	ζ	η	θ	ι	κ	Remarks
B 10383									Red end of spectrum only.	
B 7032	B	8.0	9.9							C. F.
B 12388									Too faint.	
B 188	B	8.4	9.4							
B 7069									Does not cover region.	
B 886	B	10.2	10.7						5.3 mm between δ & ο	1st line 2.1 mm from γ to δ 2nd " 4.0 mm " " " "
B 7154									Does not cover region	
B 20986	B	10.3	11.0	10.3	10.1	9.1	9.0	9.1	4227 sharp.	D. J.
B 1718									Does not cover.	
B 7155									" " "	
B 20987	B	10.7	12.0	10.6	10.3	9.3	9.2	9.2	4227 sharp.	Iso.
B 1738									Does not cover.	
B 8649	B	9.0	9.4							
B 40920									Poor plate.	
B 2037									Does not cover.	
B 2038									" " "	
B 46018		Faint				Light at			Red end.	
B 2174			10.14							
B 10365		Faint.								
B 2819									Does not Cover.	
B 10377		Does not show lines, near edge, Light in center								
B 2942		does not cover.								
B 8785		Too faint								
B 8793		Too faint.								
B 14901		Too faint.								
B 45970		No lines seen Red end only.								
B 10382		Edge not seen.								

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1917phae.proj..702B

Saturday Dec. 15, 1917

9:30 Measure of o Ceti

Plate No.	Sc		δ	S	n	g	i	4227	Remarks.
17204	B	barely seen	10.7						
16533	B	9.0	9.9					sharp	
21468	B	11.0	11.2	10.5	10.4	9.8	9.8	seen	I Top.
10635									No lines seen Red and dry
21681	B	10.8	11.0	10.3	10.0	8.1	8.0	seen	I Bot.
19905	B.	barely seen	10.1						I Bot. Poor.
22125									Does not cover.
19977	B	8.2	10.2						
17138	B	—	9.9						
16518	B	—	9.7					seen	
21664	Too poor.								
12251	g & δ faint about equal intensity.								
10614	Too faint.								
21424	B	11.6	12.0	10.6	10.5	9.7	9.8	seen.	
10693	B	10.4	10.7	S + n barely seen					
5325	Too faint.								
19586	B	10.3	10.7						
16904	B	—	10.5						I Bot.
10690									Poor plate Too faint
14029	Very faint.								
14461	B	11.0 —	11.5	→ Re-observed + seen					11.0 very black spectrum
21411	B	10.9	11.1	9.8	9.4			seen.	
10412									Too faint.
12018				o Ceti not seen					Poor plate.
12432	B	—	9.8						
14434	B	10.2	10.6						
21383	B	10.6	10.9	10.4	9.8	9.3	9.3	seen.	
10410	Very faint								Poor plate
12067	"	"							"

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1917phae.proj.702B

Monday Dec. 17, 1917

10:40 Measures of δ Ceti.

Plate No.	Sc.	β	γ	δ	ε	ζ	η	θ	i	4227	Remarks.
I 12411	B		10.3	10.5	9.0	8.2				seen	
I 14426	B		10.5	11.0						seen	
I 19865	B		10.2	10.6						seen	
I 21382	B		10.5	10.8							
I 12,004											Too faint.
I 12,410	B		9.5	9.6							faint.
I 14425	B		10.5	11.0						seen	
I 19839	B		10.5	11.0						seen	I
I 21372	B		10.7	11.0							Very bloak.
I 5179											Hole not cover.
I 12,238											Faint Hole not show lines
I 14,423	B		10.6	11.0						seen	
I 19529	B		10.3	10.5							Poor.
I 10225	~~B~~		~~9.0~~	~~10.4~~						~~seen~~	Useless
I 12179	B		9.0	10.4						seen	
I 12229											Lines barely seen.
I 14258	B		10.4	11.0						seen	
I 19560	B		10.0	10.4							Poor.
I 16890	B		10.3	10.6							
I 10400											Lines not seen
I 10181											Very faint, edge
I 12178											Useless, fogged
I 12224											Too faint & incomplete
I 14257	B			10.9							Lines barely seen
I 16517											I barely seen.
I 16966	B		9.2	10.7						seen	Too faint for plate.
I 21365	B		12.0	12.0	10.9	10.5	10.4	10.4			B 9.2
I 4789											Edge very faint

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Monday Dec. 17, 1917

Measures of σ Cet.

Plate No.	Se	β	γ	δ	ε	ζ	η	θ	ι	4227	B.	Remarks
d 11998												Very faint
d 12387												
d 14319	B	10.5	10.9									
d 19809	B	10.8	11.0									
12:00												
1:00												
d 19502	B	9.4	9.8									
d 4788												
d 12215												
d 14241	B	10.8	11.0									
d 16516	B		10.2									
d 16817	B	9.0	10.1									
d 21364	B	10.7	11.0									
d 10173												
d 2121												
d 12211												
d 14240	B	10.6	11.0									
d 16498												
d 16690	B	9.4	10.7									
d 20245	B	10.2	10.7									
d 4756												
d 11985												
d 12375	B		10.7									
d 14318	B	10.5	11.0									
d 19803	B	10.2	10.7									
d 10334												

σ+δ seen very black.

seen

seen

Poor ph. Too faint to show lines. σ+δ Barely traced.

seen.

seen

seen

Poor plate.

Lines not seen very faint.

Stds not cover

Too faint Stds not show lines.

seen

Lines not seen.

seen

seen

Lines barely seen

Poor plate σ Cet not seen

seen σ barely seen

seen

Faint lines not seen.

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1917phae.proj.,702B

Monday Dec 17, 1917.

Measures of o Ceti.

Plate No	Ser.	β	γ	δ	ε	η	θ	ι	4227	Remarks.
D 19464	B		9.4	9.5						D Bet.
D 10170										Very faint. no line seen
D 12196										o Ceti not seen
D 14220	B		–	11.0					seen	γ barely seen
D 16497	B		–	9.7					sharp.	
D 16684	B		–	9.7					seen	
D 20123	B		–	9.7					seen	
D 4636										Lines not seen.
D 11976										o Ceti not seen
D 12324	B		–	9.2						
D 14310	B		–	11.0					seen	
D 19760	B		9.2	10.3						
D 10333										Too faint.
D 19405	B		–	10.8						
D 10157										o Ceti too faint
D 1997	B			11.2						
D 12191										No lines seen Faint.
D 14178	B		9.2	9.5					sharp	
D 16496	B			9.7					sharp.	γ barely seen
D 16658	B			9.8						
D 20053	B		9.3	10.5					seen	
D 4341	B			9.1						
D 11960										Faint.
D 12267										o Ceti not seen Poor plate

3:40

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Tuesday Dec. 18, 1917

11:15 Measures of o Ceti.

Plate No	α	β	γ	δ	ε	η	ϑ	i	+227		Remarks
D 12267									seen		$\gamma + \delta$ barely seen
D 14299	B		10.5	11.0					seen		
D 19689	B		9.3	9.7							
D 10313											o ceti too faint
D 19386										plate very black	$\gamma + \delta$ barely seen
D 10152										Too faint	o Ceti not seen
D 1983	B			10.7							Poor plate
D 12167										Faint	No lines seen.
D 14177	B		9.0	9.7					seen		
D 16495	B		-	9.5					sharp		
D 16657	B		10.3	10.7					seen		
D 36366	B		10.2	10.7					seen		
D 11951											o Ceti not seen.
D 12257	B		8.5	9.7	8.3				seen		
D 14298										spectrum	40, black $\gamma + \delta$ seen
D 10312											o Ceti not seen
D 19362									seen		Lines not seen.
D 3043											o Ceti not seen
D 11813											o Ceti not seen.
D 12256											$\gamma + \delta$ barely seen
D 14271	B			10.8					seen		& spectrum γ seen black
D 19634	B		10.3	10.7							
D 10292											o Ceti too faint
D 19349										Faint	No lines seen
12:00											
12:40											
D 36975									seen	Faint.	δ barely seen

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1917phae.proj..702B

Sunday Dec. 18, 1917

Spectra of o Ceti

Plate No	Sc	β	γ	δ	ε	η	θ	ι	4227	Remarks.
D 11788										o Ceti not seen.
D 14270	B			11.2						γ seen but spectrum very black.
D 39012	B		10.7	10.8	10.2	9.0	–	8.5	seen	
D 36272	B		10.7	10.8						
D 19328										Spec. very black & dense.
D 10131										Does not cover.
D 1646	B			11.2					seen	
D 36982										Faint. Lines not seen.
D 14150	B			10.0	4202 – 9.5				sharp	γ barely seen
D 39010	B		10.4	10.6					seen	Poor plate
D 35809	B		9.0	10.6					seen	Edge! ~~By Plate~~
D 36201										Spec. black γ & δ about equal
D 16488	B		–	10.1					seen	& barely seen
D 16604	B		9.2	10.2					seen	
D 10285										o Ceti not seen.
D 19279									seen	γ + δ barely seen.
D 9650										~~too faint, no lines seen~~
D 579										Too faint.
D 12152										Too faint.
D 14082										γ & δ barely seen
D 2985										o Ceti not seen
D 11783										o Ceti " "
D 12252	B		9.3	9.7					seen	
D 14269	B		10.5	10.8					seen	
D 19622										Trailed. Spec. too black.
D 35800	B		10.0	10.8					seen	
D 20034	B		10.2	10.9					seen	

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1917phot.proj..7026

Tuesday Dec. 18, 1917

Measured 60 Cets.

Plate No.	Sc.	B	y	5	3	n	D	i	4227	Remarks
D 16484	B		~~15~~	10.1					cen	
D 16582	B		9.0	9.6					cen	
D 34403	B		10.8	10.8						Iso.
D 19242										Too faint Poor plate
D 2534										Does not cover
D 11778										Dec " "
D 32322										Too faint
D 14268			See P. 42							

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1917phae.proj..702B

Wednesday Dec. 19, 1917

Measures of o Ceti.

11:20

Plate No.	Sc	β	γ	δ	ε	η	ϑ	i		4227	Remarks
D14078											very poor plate. o Ceti not seen.
D14268	B		10.5	10.8						seen	
D19592	B			11.0							very black spec. γ seen. = 10.5
D35701	B			11.0							γ seen.
D35086	B			10.9						seen	edge
D7902									Wrong Plate	spectrum not cover	Faint γ & δ barely seen.
D563											Too? Too faint.
D12151											Too faint.
D9928											Too faint.
D702											o Ceti not seen.
D12163											Too faint.
D14149	B			9.4					4202 - 9.5	sharp.	
D16489	B			9.5						seen	γ barely seen.
D16620	B			10.5						seen	
D10286											Too faint.
D19298										seen	δ barely seen.
D9854											Useless.
D636											Too faint.
D12156											Too faint.
D14100	B			9.4					4202 - 9.5		
D16475	B.			9.3						seen	
D16581	B.			9.8						seen	γ barely seen.
D33877	B			10.4						seen	Top.
D19183										seen	γ + δ about equal and barely seen.
D2474											Leads not cover.
D11771											Not seen.
D32277											Faint, plate not clear
D31521			10.7	10.7	9.2					seen	Top.

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Wednesday Dec 19, 1917

Measures of o Ceti.

Plate No.	Sc	β	γ	δ	ε	η	θ	i		4227	Remarks.
D 31393										seen	No lines & seen Spec. very blank.
D 35685											
D 34985											Plate very poor.
D 5704											& barely seen.
D 5533											Too faint
D 12146											Too faint
D 14048	B			9.1					4202 – 9.2	seen	
D 16466										seen	No lines.
D 34975											Iso? Too blank.
D 33832											& seen Spec. very blank
D 19174										seen	No lines Faint.
~~D 5556~~											
D 4497											Too faint.
D 12140											Too Faint.
D 31365											Iso? Too faint.
D 16461										seen	No lines.
D 34512	B		10.6	10.7						barely seen	
D 33778	B.		9.2	9.3						seen	
D 19167										seen	& barely seen.
D 5457											Not seen.
D 188	B			10.5							(Not seen.)
D 12135											
D 17377	B			10.5						seen	γ barely seen.
D 31306											Obs not cover
D 16431											& barely seen.
D 34415	B		10.4	10.4							
D 32460											No lines.
D 17443											Poor plate & barely seen

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1917phae.proj..702B

Wednesday Dec. 19, 1917

Measures of o Ceti.

Plate No.	Sc	p	γ	δ	S	η	ϕ	i		4227	Remarks
D2446											Too faint.
D11748											Not seen.
D31534	B.		10.5	10.6	8.1						
D31506	B		10.4	10.4						seen	
D31383											Sec? No lines
D35682	B.		×	10.9						barely seen	& barely seen
D34977											Useless.
D5416											Too faint.
D31461	R		10.8	11.0	8.2				4202 seen	seen	

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1917plate.proj...7028

Thursday Dec. 20, 1917

11:25 Measured of o Ceti.

Plate No	Sc	β	γ	δ	ε	η	Φ	i		4227	Remarks.
D 12111											Too faint. No lines.
D 31305											Does not cover.
D 31433	B		10.3	10.7						seen	
D 34414	B		10.5	10.5							
D 32389											Does not cover.
D 17390	B		9.0	9.8						seen	
D 12181	B		9.0	10.7						seen	
D 11491											too faint.
D 31533	B		10.8	10.8	9.3						
D 31472	B		10.6	10.6							
D 31368											Faint. No lines.
D 35101	B			10.9						seen	
D 34976											γ + δ seen, spectrum very black
D 5384											not seen. Poor plate
D 31438	B		10.4	10.4						seen	
D 12084											not seen. Poor Plate.
D 31075											off plate.
D 31401											No lines.
D 34404	B		10.9	10.9							
D 32377											Faint. No lines.
12:15											
D 1998	B		10.3	11.2	10.7	10.4	10.2	10.2			
D 21673	del	Broken	slide	1557	cannot	be	found.				
D 19652	B		10.4	10.7							
D 14219										seen	Black spectrum γ + δ dense and fine
D 21916	B		10.7	10.8	10.1	9.8	8.0			sharp	

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1917phae.proj..702B

Thursday Dec. 20, 1917

Measures of δ Ceti

Plate	M.	Sc.	β	γ	δ	ε	η	θ	ι	42.27	Remarks.
D 19820.		B		10.3	10.7					barely seen	
D 19429											very black & sec. γ + δ seen about equal
D 4116		B		11.0	11.2	10.4	10.2				
D 5556											too faint.
D 10342											too faint.
D 39008		B		10.5	11.0	10.3	10.0	9.8	9.2	seen	
D 21673		R		10.8	11.0	10.6	10.0	9.0	9.0	seen	
				Beginning 2nd measures of D & B Plates.							
D 1998		B		10.5	11.0	10.6	10.3	9.8	9.8		
D 4116		B		10.5	11.2	10.4	10.2				
D 19429				~~10.3~~	~~10.8~~						very black γ + δ seen about equal
D 19,820		B		10.3	10.8						
D 21916		B		10.7	10.9	10.2	9.5	8.2		sharp	
D 14219										seen	very black γ + δ seen about eq.
D 19652		R		10.7	10.6	? Look up.				seen	
D 39008		B		10.9	10.6	10.3	9.9	9.4	9.4	seen	
D 21468		B		11.0	11.2	10.4	10.3	9.3	9.2		Tpe.
D 21673		R		11.0	11.2	10.3	10.2	9.2	9.0	seen	
D 31433		B.		10.2	10.4					seen	
D 34414		R		10.2	10.2						Duo?
D 17390		R			9.6					seen	γ barely seen
D 2181		R		9.0	10.4					seen	
D 31533		R		10.8	10.9	9.2					
D 31472		B		10.7	10.8						
D 31368											
D 35101		R			10.8					seen	very faint at times seen
D 34976											very black γ + δ seen about equal
D 31438		R		10.4	10.5					seen	

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1917phot.proj...7026

Thursday Dec. 20, 1917

Spectrums of o Ceti.

Plate No	Sc	β	γ	δ	ε	η	θ	ι	4227	Remarks.
D31401										No lines seen.
D34404	B		10.8	10.8						
D32377										Faint No lines seen
D31461	B		10.8	10.9	9.1				sharp	
D31383										Iso? Faint No lines
D35682	B			10.9					sandy rich	H barely seen
B14901										Too faint.
B45970										Too faint
B10382						would be on extreme edge not seen.				does not cover.
B12388										Too faint.

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1917phae.proj..702B

Friday Dec. 21, 1917

Measures of o Ceti.

11:15

Plate No.	Sc	β	γ	δ	ε	η	ϕ	i		4227	Remarks.
D19362											No lines.
D12256											γ & δ barely seen.
D14271	B		11.0?	11.0?						seen	Spectrum black.
D19634	B		10.2	10.6							
D19349											Too faint.
D36975											Faint & barely seen.
D14270	B			11.0							γ also seen
D39012	B		10.6	10.8	10.1	8.8	.	8.4		seen	
D36272	B		10.7	10.9							
D19328											Very black.
D1646	B		10.8	11.0						seen	Very black.
D36982											Too faint 30 lines.
D39010	B		10.3	10.8						seen	
D35809	B		9.8	10.7						seen	Edge.
D36201	B		11.2	11.2							Spec. very black.
D12267											γ & δ barely seen.
D14299	B		10.7	10.9						barely seen	
D19689	B		10.1	10.3							
D10313											Too faint.
D19386	B		10.8	11.0?						barely seen	Very black.
D10152											Too faint.
D1983	B			10.6							Faint.
D12167											Faint.
D14177	B		9.3	10.0						seen	
D16495	B		.	10.0						seen	γ barely seen
D16657	B		9.3	10.6						seen	
D36366	B		9.3	10.7						seen	
D11951											Not seen.

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1917plate.proj . . 7029

Friday Dec 21, 1917

Measures of o Ceti.

Plate No	Sc			δ	ℑ	η	ϕ	i		4227	Remarks
Ⅱ12257	B		9.2	9.8	8.8					seen	
D14298											very black & seen about eq. diam.
D563											Too faint
12:20											
2:15											
D12151											Too faint.
D9928											Too faint.
D14149	B			9.5						seen	
D16489	B.			9.8						seen	& barely seen.
D16620	B			10.4						seen	
D19298										barely seen	& barely seen
D14150	B			9.5					4202 9.3	sharp	
D14100	B.			9.2					4202 9.2	seen	Faint
D16475	B.			9.0					4202 9.0	Seen	
D16581	B.			9.3						seen	& barely seen.
D33877	B			10.4						barely seen	
D16484	B.			10.0						seen	
D16582	B.			9.2						seen	& barely seen
D34403	B		10.7	10.7							Too. Very black.
D16488	B.			10.2						seen	& barely seen
D16604	B		9.1	10.3						seen	
D19279										barely seen	rather faint no lines
D9650											Too faint.
D12152											Too faint.
D14082											No lines.
D12252	B		9.7	10.0						seen	
D14269	B		10.0	10.4						barely seen	

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1917phae.proj..702B

Friday Dec. 21, 1917

Measures of o Ceti.

Plate No	Sc	b	γ	δ	ε	η	θ	c'		4327	Remarks.
D1962 v									γ + δ about equal?		I. very black.
D35800	B		9.5	10.7						scen	
D20034	B		10.1	10.8						barely scen	
D35701	B		10.8	11.0							Very black
D35086	B			10.7						scen	Edge & barely scen?
D7902											Disk not cover.
D188	B			10.3							
D14268	B		10.3	10.8						scen	
D19592									γ + δ scen nearly equal		Very black.
D34512	B		10.4	10.7						barely scen	
D33778	B		10.2	10.4						scen	
D19167										scen	No lines.
D19174											Too faint.
D 497											Too faint.
D16461										scen	No lines.
D14048	B			9.2					420 v 9.2	scen	
D16466										scen	No lines.
D34975									γ + δ scen about equal		Very black. Iso.
D33832											Too black.
D31393										scen	Iso. No lines.
D35685											Very black.
D5704	B			9.0							Faint.
D3152/	B		10.7	10.8	9.0					barely scen	
D19183			~~9.2 10.4~~							scen	γ + δ barely scen & about equal.
D17377	B		9.2	10.4						scen	
D32460											Faint.
D34415	B		10.2	10.2						~~scen~~	
D16431	B			9.3						scen	

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1917phot..proj..7028

Friday Dec. 21, 1917

Measures of σ Cet.

Plate No	fc	p	γ	δ	ε	η	θ	ι		4227	Remarks
D31506	B		10.6	10.6							
D31534	B		10.6	10.7	8.2						
D17443											γ faint barely seen γ+δ barely equal
D21424	B		11.0	11.2	10.5	10.3	9.3	9.3		Barely seen	
D10695	B		10.4	10.6	8.8				4202 seen	seen	
D5325											γ δ faint.
D19586	B		10.2	10.6							
D16904	B			10.5							γ barely seen.
D10690											δ00 faint.
D14029										seen	Faint. δ barely seen
D14461										barely seen	Very elegle γ+δ about equal
D21411	B		11.0	11.2	10.3	9.5	9.2	8.0		barely seen	

3:45

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1917phae.proj..702B

Saturday Dec. 22, 1917

Measures of o Ceti.

10:25

Plate No	Sc	β	γ	δ	J	η	ϰ	i		+22.7	Remarks.
B 188	B		9.0	9.8							
B 886	B		10.3	10.1					near x 9.4 / near δ 9.2		
B46018											900 faint.
B2174	B			10.2							
B20986	B		10.4	10.8	10.4	10.2	9.1	9.1	B 8.2	sclr	
B1718											Glare not clear
B7155											" " "
B7032	B			10.2							ϰ barely sclr.
B10383										sclr	Do this.
B10365											900 faint.
B10377										sclr	Faint
B8649	B			10.2						sclr	ϰ barely sclr.
B20987	B		10.8	11.2	10.6	10.4	10.1	10.1		sclr	

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1917phao.proj...702R

Friday Jan 4, 1918

Measures of o Ceti.

10:40

Plate No	Le	B	γ	δ	S	n	φ	i		4227	Remarks
D 19803	B		10.2	10.7							
D 10334											Too faint.
D 19464	B		10.0	10.3							
D 10170											Not seen.
D 12196											Not seen
D 14220	B		10.8	11.0						seen	Very black
D 16497	B		9.0	9.7						seen	
D 16684	B			10.1						seen	
D 20123	B		8.8	9.8							
D 4636											Lines not seen.
D 11976											Not seen
D 12324	B			9.9							
D 14310	B		10.4	10.8						seen	
D 19760	B		9.8	10.3						seen	
D 10333											not seen.
D 19405	B			10.7						barely seen	
D 10157											Too faint.
D 1997	B			11.0							
D 12191											Too faint.
D 14178	B		10.2	10.7						seen	
D 16496	B			10.0						sharp.	& barely seen
D 16658	B		9.9	10.3						seen	
D 20053	B		10.1	10.8							
D 4341	B			9.2							
D 19809	B		10.5	11.0							
D 19502	B		9.3	9.8							Faint
D 12215											Lines seen.
D 14241	B		10.6	10.8						seen	Very black

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1917phae.proj...702B

Friday Jan. 4, 1918.

1:30 Measures of o Ceti

Plate No	Se	β	γ	δ	ε	ζ	η	θ	ι	4227	Remarks
D16516	B			9.8						seen	
D16817	B			10.0						barely seen	& barely seen
D21364	B		10.8	10.8							very black
D14240	B		10.6	10.9						seen	
D16498											No lines seen
D16690	B		9.8	10.4						seen	
D20245	B		10.0	10.7						seen	
D4756											Too faint.
D 11985											Not seen.
D 12375	B		9.8	10.0						barely seen	
D14318	B		10.6	11.0						seen	
D19839	B		10.2	10.8						barely seen	
D21372	B		10.6	10.8							Very black
D12238											No lines seen
D 14423	B		10.5	10.8						barely seen	
D 19529	B		9.7	10.0							
D 2179	B		9.3	10.3							Too faint
D12229											
D14258	B		10.7	10.8						barely seen	Very black
D19560	B		9.5	10.0							
D16890	B		10.4	10.7							
D10400											Too faint near edge.
D12224	B		10.1	10.3						seen	
D14257	B			10.7						barely seen	
D16517	B			10.0							
D16866	B		10.7	10.5						seen	
D21365	B		12.0	12.0	10.8	10.1	9.2	9.2			
D12387	B			10.8						barely seen	

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Friday Jan. 4, 1918

Measures of o Ceti.

Plate No.	Sc	p	γ	δ	ζ	η	θ	ι	4227	Remarks.
D14319	B		10.4	10.8					rdm	
D10412										No hits rdm
D12432										Faint.
D14434	B		10.3	10.9					barely rdm	
D17204	B			10.7					rdm	& barely rdm.
D16533	B		9.8	10.3					rdm	
D10635										Faint.
D21681	B		10.9	11.0	10.3	10.2	9.2	8.8	rdm	
D19905	B		10.0	10.2						
D19977	B		9.8	10.3					rdm	
D17138	B			10.4						
D16518	B			10.2					rdm	
D12251										Too faint nr. edge
D10614										Too faint
D21383	B		11.0	11.0	10.2	9.8	9.3	9.3	rdm	
D10410										Spot rdm.
D12012										not rdm.
D12411	B		10.4	10.5	9.2	8.3	8.2		rdm	
D14426	B		10.7	10.9					rdm	
D19865	B		9.8	10.5						
D21382	B		10.4	10.8						Very black & faint
D12004										
D12410	B		10.0	10.2						
D14425	B		10.7	11.0					Barely rdm	

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Saturday Jan. 19, 1918

o Ceti.

	γ	δ	ε	η	ϑ	ι	4227	R	F	
C 1452	16.0	16.0	11.3	10.7	9.8	10.0	sharp	9.8	9.2	D

C 1452 ~~2nd observation.~~

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Monday Jan. 21, 1918

o Ceti.

	dc	γ	δ	ε	η	θ	ι	4227	B −
C 14522	B	15.5	16.0	11.5	10.7	10.2	10.4	Bet	Harv.	9.8	8.5

B 24593 Too black - near edge

D 14502	B	9.2	9.4
D 34404	B	10.6	11.0

D 14502	B	9.2	9.3
D 34404	B	10.6	10.9

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1917phae.proj..702B

Friday Feb. 1, 1918

Remeasures of δ Ceti.

2:50

Plate No	Sc	β	γ	δ	ε	η	θ	i	K	λ	μ	ν	4227	B	F	Remarks. Earth time.	
C 280	B		11.1	13.3	10.6	9.8	8.8	9.0					sharp	8.9		Bot.	✓
C 245	B		9.9	11.0												Bot.	✓
C 269	B		9.8	10.8												Bot.	✓
C 288	B		10.7	12.8	10.8	10.3	9.0	9.6					sharp.	9.1			✓
C 11481	B	10.4	11.0	12.0	10.4	8.7							seen	8.0		Bot.	✓
C 10817	A		12.8	15.0	9.2	7.3	4.3						seen	5.0		Top.	✓
C 12240	B		10.3	11.5	10.3	9.1							—	8.2		Top	✓
C 11529	B	10.2	10.9	11.8	10.7	10.0	9.1	8.0						9.1		Bot.	D ✓
C 11574	A		10.8	13.5	10.8	9.8	7.8	7.7	4.8	4.8	·	4.6	seen	6.0	5.0	Top	✓
C 10791	A		9.2	11.7	6.3											Top.	✓
C 12234	B		9.8	10.6	9.6	9.3							seen			Bot.	✓
C 11498	B	10.4	12.5	13.0	10.7	10.3	9.0	8.2						9.2		Bot.	m 9.3 ✓

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1917phae.proj..7028

Saturday Feb 2 1918

Remeasures of o Ceti.

Plate No	Je	ρ	γ	δ	ε	η	α	i	κ	λ	μ	ν	4227	B	F	Pupil of	
C 11474		ρ	γ	δ	ε	η	α	i	and B	scln.			scln				Not comparable. Edge of plate
C 10026	B		10.4	10.7	10.3	9.9	9.2	9.0					scln			Top.	✓
C 11485	B	10.4	11.0	12.5	10.5	10.1	8.3	8.1					scln	9.3		Top.	D. ✓
C 10777	A		10.8	13.0	6.2								scln	4.0		Top	✓
C 12202	B	9.2	10.5	11.5	10.2	9.0							scln			Top	✓
C 11489	B	10.5	12.0	12.3	10.6	10.0	8.8	8.3					sharp	9.3		Bot.	D ✓
C 701	B	9.8	→ 10.5 →													Bot.	✓
C 9799	B		10.3	10.6	9.5	8.0	·	8.0					sharp	8.0		Bot.	✓
C 8730	B		10.4	10.8												I Bot.	✓
C 16724	B	10.2	12.5	12.5	10.3	9.8	9.1	9.0						9.1		Bot.	✓ Duo D.
C 10666	B		10.8	11.0	9.3								sharp			Bot	✓
C 10967	B		10.4	10.6	9.8	9.2							scln			Top.	✓
C 11447	B	10.3	10.8	11.3	9.8	[8.0							scln			Bot.	D. ✓
C 9826	B		10.4	11.0	10.2	9.0	8.0	8.7					sharp	9.0		I Bot.	✓
C 6606	B		9.4	9.9												Top.	F. ✓
C 16723	B	10.4	11.5	12.0	10.5	10.2	9.8	9.5					scln.	9.3		Bot.	D. ✓
C 10657	B		10.0	10.5									scln			I Bot.	✓
C 10924	B		10.6	11.3	10.2	9.0							scln	8.0		Top.	D. ✓
C 11466	B	10.4	11.0	12.3	10.4	9.3							scln	9.0		Bot.	✓
C 9821	B		10.4	10.8	9.8	9.1	8.0	8.8					sharp.	8.0		Bot.	✓
C 2843	B		9.0	10.2												Bot.	F. ✓

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1917phae.proj..702B

Monday Feb. 4 1918

Remeasures of o Ceti.

10:30

Plate No	Se	B	γ	δ	ε	η	ζ	i	K	λ	μ	ν	BF	4227	Part line	Remarks
C16722	B	10.7	13.5	14.0	10.9	10.4	9.9	9.9					9.9 8.3	elon	Bet.	Leo D.
C10652	B		9.0	9.9										elon	Bet.	✓
C10914	B		10.8	11.5	10.7	10.2	9.3	9.2					9.4	elon	Bet.	D. ✓
C11496	B	10.7	12.5	13.0	10.9	10.5	9.3	9.2					9.7	elon	Bet	D. m ✓ 1/2 9.3 9.6
C9819	B		10.3	10.7	10.1	9.2	8.3	9.3					8.0	elon	Bet	✓
C2123	B		9.5	10.7											Bet	✓
C10584	B			9.7											Bet	✓
C11559	B	10.3	11.8	12.8	10.5	10.2	8.1	8.0					9.3 <8.0	elon	Typ.	D. ✓
C16721	B	10.4	12.0	12.3	10.6	9.8	9.0	9.0					9.0	elon	Bet	D not ✓ comparable
C10636	B		9.2	10.6											Bet	✓
C9809	B		10.3	10.7										elon	Typ	✓
C1432	B		10.8	10.9	9.8	9.0	8.0	<8.0						elon	Typ	✓
C16718	B	10.8	11.0	11.0	10.3	9.2	8.2	8.8					8.8	elon	Bet.	D ✓ 8.2
~~C1621~~																
C1480	B		13.5	14.0	11.3	10.7	10.4	10.4	8.2	8.2	·	9.0	10.2 9.3	elon	Bet.	D not ✓ comp
C11624	B		10.7	10.9	10.5	10.3	10.2	10.2	8.2	8.0			9.2 9.1	elon	Bet.	Leo ✓
11:30																
12:00																
C10893	B		10.7	11.2	10.4	9.3	8.0						8.0	elon	Bet.	✓
C1431	B		10.4	10.6											Bet.	✓
C2867	B		~~10.7 10.7~~	~~11.8~~	~~10.1 10.2~~	9.0	8.0	9.0						elon	~~Bet~~	✓
C16717	B	10.4	12.5	12.5	10.4	8.8	8.0	8.7					8.2	elon	Bet.	Leo. ✓
C1420	B		13.5	14.7	11.0	10.4	10.2	10.3					9.8	elon	Bet.	✓ D. not comp
C11563	B		10.7	11.0	10.6	10.3	9.4	9.3					9.3 9.0	elon	Bet.	✓
C1424	a B		10.0 10.6	11.0 10.8											Bet.	✓
C10850	B		~~9.8 10.4~~	10.4	9.1	8.1								elon	Typ.	✓
C16710	B	10.3	12.5	12.0	9.8								8.1	elon	Bet.	Leo. ✓
1:00																

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1917phae..proj..702B

Friday Feb. 8 1918

Remeasures of o Ceti.

Plate No.	Sc.	β	γ	δ	S	η	θ	ι	κ	λ	μ	ν	BF	m	427	Part of line	Remarks
C 11632	B		10.8	11.8	10.8	10.7	10.4	10.3	9.5	9.3	8.3	9.0	9.8	10.3		seen	Bot.	Iso D ✓
C 12795	B		10.6	11.0	9.9	8.1										seen	Bot.	✓
C 11599	B		10.6	10.8	10.3	9.8	9.2	9.1									S. Mid.	Iso ✓
C 12266	B		9.3	10.7	9.3	<8.0											Top.	✓
C 11633	B		11.5	12.0	10.8	~~10.7~~ 10.7	10.4	10.3	9.5	9.3	8.8	9.0	9.8	10.3		seen	Top.	D ✓ 10.0
C 12126	B		10.2	11.0	8.6											seen	Bot.	D ✓
C 11468	B		10.4	11.0	12.0	10.7	9.5	9.1	8.8				9.3			seen	Bot.	D ✓
C 9846	B		10.7	11.2	10.5	9.7	9.3	9.5					9.0			sharp	Bot.	D ✓
C 9668	B		~~11.0~~	10.2												seen	Bot.	✓
C 17107	B		10.9	11.1	10.3	8.8	.	8.0								seen	Top.	✓
C 10686	B		10.8	11.2	9.8	8.1	8.0	8.1								seen	Bot.	✓
C 12122	B		9.9	10.7													Top	✓
C 11524	B	10.4	12.5	13.0	11.0	10.6	10.2	9.9	8.0	8.0	.	8.0	10.2			seen	Bot.	D ✓
C 9833	B		~~10.5~~	11.0	10.4	9.6	9.2	9.7					9.2			seen	Bot.	✓
C 9658	B			10.3													Bot.	✓
C 17106	B		10.8	11.0	10.2	8.0	.	<8.0								seen	Bot.	D ✓
C 10681	B	10.4	11.0	11.5	9.7											seen	Bot.	✓
C 1474	B		13.0	14.0	10.5	10.4	10.2	10.2									Top	D ✓
C 11533	B	10.3	12.0	13.0	10.6	10.3	9.0	8.0					8.8			seen	Bot.	✓
C 9827	B		10.5	10.8	10.2	9.2	8.8	9.0					9.1			seen	Bot.	✓
C 11544	B	10.3	11.0	11.5	10.5	9.8	8.0	8.0					9.0			seen	Bot.	✓
C 9898	B		10.7	11.0	10.3	10.0	9.2	9.3					9.1			seen	Top.	✓
C 9747	B		10.4	10.8	9.3											seen	Top.	✓
C 11517	B	10.3	11.0	12.0	10.4	10.2	9.2	9.0					9.3			seen	Top.	D ✓
C 10707	B		10.4	10.7	9.7	8.0	<8.0	8.0								seen	Top.	D ✓
C 12149	B	8.8	10.4	11.0	9.6	8.0										seen	Bot.	✓
C 11449	B		8.7	9.8													Bot.	✓ Iso F
C 9889	B		9.7	10.0	9.5	9.1	8.0	8.3								seen	Top.	Iso ✓ D

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1917phae.proj..702B

Friday Feb. 8, 1918

Remeasures of ο Ceti.

Plate No.	Je	β	γ	δ	ε	η	θ	i	κ	λ	μ	ν	ΒΤ	Μ	4227	Part of line	Remarks
C 9724	B		10.3	10.6	8.0										rdn	Bet.	✓
C 11516	B	10.0	10.8	11.0	10.5	9.8	9.0	8.8					9.0		rdn	Bet.	D ✓
C 9859	B		10.3	10.6	9.8	9.3	9.0	9.8							rdn	Bet.	D. ✓
C 10702	B		10.3	10.6											rdn	Bet.	✓
C 12138	B		10.3	11.0	9.5	<8.0							8.0		rdn	Bet.	✓
C 11579	B		11.0	11.5	10.2	9.8	8.0	<8.0							sharp	Bet.	D. ✓
C 9858	B		10.4	10.8	10.2	9.7	8.8	9.7					8.2		rdn	Bet.	D. ✓

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1917phae..proj..702B

Saturday Feb. 9, 1918

Remeasures of σ Ceti.

9:45

Plate No.	Sc	p	y	δ	S	η	θ	i	K	λ	μ	ν	B	F	M.	4227	Part of Line	Remarks
C 9717	B		8.9	9.9													Bot.	✓
C 11460	B	10.4	12.0	12.5	10.7	10.3	9.3	9.2					9.4		9.3		Bot.	D. ✓
C 10695	B		10.0	10.5	8.0												Bot.	F. ✓
C 11590	B		10.6	10.9	10.4	10.2	9.3	9.3					8.8				Bot.	D. ✓
C 10761	B		10.4	10.6	9.1												Bot	✓
C 12199	B		10.3	11.0	10.1	8.0							8.1				Top.	D. ✓
C 11610	B		11.0	12.5	10.7	10.5	10.2	10.2	9.3	9.2	9.0	9.0	9.2	9.2			Bot.	D. ✓
C 9984	B		10.4	11.0	10.6	10.2	9.8	9.8					10.1				Top.	D. ✓
C 9785	B		10.3	10.5	9.2												Bot.	✓
C 11475	B	11.5	13.0	13.5	11.5	10.4	9.8	9.3					10.2				Bot.	Leo. D.
C 10755	B		12.5	13.0	10.3	8.0							8.0		9.1		Top.	D. ✓
C 12189	B		10.4	11.0	10.2	8.0							8.0				Bot.	✓
C 11558	B		12.0	13.0	10.8	10.3	8.2	8.0					9.0				Top.	✓
C 9955	B		10.3	10.7	9.8	8.0											Top.	✓
C 9758	B		10.3	10.7	9.0	9.0											Bot.	✓
C 11726	B		9.2	9.4	8.1												Bot.	✓
C 10741	B		10.7	11.0	9.4												Bot.	D ✓
C 12173	B		11.0	12.0	10.8	9.7	8.2	8.4					9.8				Bot.	✓
C 11473	B	10.7	12.0	13.0	10.5	9.8	9.0	8.2					9.2				Bot.	D. ✓
C 9930	B		10.3	10.8	10.0	9.1	8.0	8.0					8.0				Top.	✓
C 9748	B		10.5	11.0	9.8	8.2											Bot.	✓
C 11483	B		11.0	11.2													Bot.	Leo. ✓
C 10726	B		10.8	11.2	9.3	<8.0							8.0				Bot	✓
C 12169	B		10.4	11.5	10.3	9.2		8.2					9.2				Bot.	✓

11:30

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1917phae.proj..702B

Saturday, Feb. 9, 1918

Remeasure of o Ceti.

Plate No.	Sc	β	γ	δ	ε	ζ	4227	Rejected	Remarks
D 35809	A		9.0	10.4				✓	Type
D 12375	B		9.6	10.2				✓	
D 19689	B		9.4	10.0				✓	
B 886	B		9.8	10.5				✓	
D 36201	B		9.2	9.3				✓	
D 12432	B			9.2				✓	Dogged.
D 19592	B		9.2	9.3				✓	
B 8649	A		9.0	9.4			sdn	✓	
D 36366	B		9.4	10.3			sdn	✓	
D 14178	B		9.3	10.2			sdn	✓	
D 19464	B		9.3	10.2			sdn	✓	
D 19905	B		9.0	10.2				✓	
D 12224	B		–	10.2			~~sdn~~	✓	
D 14220	B		–	10.8			sdn	✓	
D 33778	A		10.2	10.2			sdn	✓	
D 19977	A		9.0	10.3				✓	
D 16866	B		9.0	10.2				✓	
D 12257	B		8.8	9.3			sdn	✓	
D 19386	A			9.0				✓	
D 35800	B		9.3	10.6			sdn	✓	

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1917phae.proj..702p

Monday Mar. 18, 1918.

Remeasures - o Cet.

Plate	Sc.		Remarks.
✓ 9 5704	B	$\delta = 9.2$	
✓ 9 10693	B	$\delta = 9.2$	
✓ 9 12224	B	$\delta = 10.2$	
✓ 9 12257	B	$\delta = 9.0$ $\delta = 9.7$ $\delta = 8.8$	
✓ 9 12324	B	$\delta = 9.2$	
✓ 9 12387	B	$\delta = 10.7$	
✓ 9 12411	B	δ ~~8~~ 8.0 (recm.)	
✓ 9 12432	B	$\delta = 9.0$	
✓ 9 14178	B	$\delta = 10.4$	
✓ 9 14220	B	$\delta = 11.0$	
✓ 9 14271	B	δ 11.0	
✓ 9 14310	B	δ 10.8	
✓ 9 14461	B	$\delta = 11.2$ $\delta = 11.3$	
✓ 9 16431	B	$\delta = 9.2$	
✓ 9 16497	B	$\delta = 8.8$	
✓ 9 16517	B	$\delta = 9.8$	
✓ 9 16533	B	$\delta = 9.0$ $\delta = 10.0$	
✓ 9 16572	B	$\delta = 9.0$	
✓ 9 16657	B	$\delta = 9.3$ $\delta = 10.3$	
✓ 9 16658	B	$\delta = 9.0$ $\delta = 10.2$	
✓ 9 16817	B	$\delta = 9.0$	
✓ 9 17377	B	$\delta = 9.5$	
✓ 9 17390	B	$\delta = 9.3$	
✓ 9 19356	B	$\delta = 11.0$ $\delta = 11.2$	Very Black
✓ 9 19464	B	$\delta = 10.2$ $\delta = 10.3$	
✓ 9 19529	B	$\delta = 9.8$ $\delta = 10.2$	
✓ 9 19560	B	$\delta = 9.3$ $\delta = 10.1$	
✓ 9 19592	B	$\delta = 10.7$ $\delta = 11.0$	

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1917phae.proj..702B

Monday Mar. 18, 1918

Remeasures — 0 Cett.

Plate No.	hr		Remarks
✓ D 19905	B	$\gamma = 9.3$	
✓ D 19977	B	$\gamma = 9.3$	
✓ D 20053	B	$\gamma = 10.3$	
✓ D 20086	B	$B = 9.9$	
✓ D 20087	B	$\gamma = 10.7$ δ 10.9 D 10.5 η 10.4 θ 9.8 9.8 $B = 9.3$	
✓ D 20123	B	$\gamma = 8.0$	
✓ D 21365	B	$\alpha = 10.1$ $\zeta = 10.2$ $B = 9.2$	
✓ D 21411	B	$\alpha = 8.2$ 8.0	
✓ D 21424	B	$\delta = 11.2$	
✓ D 21681	B	$\alpha = 9.0$	
✓ D 31461	B	$\gamma = 9.1$	
✓ D 35701	B	$\gamma = 10.8$	
✓ D 36201	B	$\gamma = 10.8$ $\delta = 11.0$	
✓ D 36366	B	$\gamma = 10.3$ $\delta = 10.7$	

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1917phae..proj..702B

Wednesday Mar. 20, 1918

Remeasures — o Ctt.

Plate	No.	dc							Remarks
✓	C12779	B	g = 9.0	i = 9.0					Typ.
✓	C9827	B	δ = 10.7	ϕ = 8.2					2 Bet.
✓	C12089	B	γ = 8.8	δ = 9.7					Bet
✓	C12145	B	β = 8.0	γ = 10.4	δ = 10.8	S = 9.3	η = <8.0		Bet
✓	C12164	B	η = 8.2						Bet.
✓	C12168	B	δ = 11.3						Bet.
✓	C12205	B	B = 8.5						Bet.
✓	C12226	B	γ = 9.2	δ = 10.2	S = 8.8				Bet.
✓	C12256	B	B = 8.0						Typ.
✓	C15433	B	γ = 10.2	δ = 10.8	S = 8.8	η < 8.0			Bet.
✓	C15469	B	ϕ = <8.0	i = 8.1					Typ.
✓	C15497	B	γ = 10.5	δ = 11.0	S = 9.7	η = 8.8	ϕ <8.0	i = 7.0	B-8.2 Typ.
✓	C15518	B	B = 8.3						Typ.
✓	C10021	B	δ = 11.0						Typ.
✓	C11478	B	β = 9.4	γ = 10.8	δ = 11.2	S = 9.2			Bet.
✓	C11575	B	K = 7.8	λ = <8.0					Bet.
✓	C11482	B	B = 9.2						Bet.
✓	C11714	B	ϕ = <8.0	K = 7.2	F = 9.3				Bet.
✓	C11515	B	ϕ 8.8	i = 9.0	B = 8.8				Bet.
✓	C11661	B	F = <8.0	λ = <8.0	B 9.2	F = 9.4			Bet.
✓	C11654	B	K = 8.3						Bet.
✓	C11456	B	γ 10.6	δ 10.7	S 9.2				Bet.
✓	C11644	B	γ 10.7	δ 11.0	μ <8.0	B 8.8	F 9.0		Bet.
✓	C11455	B	β = 9.2	S = 8.8					Bet.
✓	C11497	B	S = 10.0						Typ.
✓	C11564	B	g = 8.0	i = <8.0					Bet.
✓	C10924	B	γ = 9.7	δ 10.6	S 8.8				Bet.
✓	9657	B	δ = 10.3						Bet.

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1917phae.proj..702B

Wednesday Mar. 20, 1918

Remeasures — o Cet.

	Plate	Sc.	
✓ Bot.	C9679	B	$\gamma = 8.8$
✓ Top	C9705	B	γ 10.3 δ 10.8
✓ Top	C9786	B	$\gamma = 10.3$ δ 11.0 $\zeta = 9.8$ $B = 8.3$ $\eta = 8.8$
✓ Bot.	C10606	B	$\gamma = 8.0$
✓ Bot.	C10629	B	$\gamma = 8.8$ $\delta = 9.0$ Trigger.
✓ ~~Bot~~	C10645	B	γ 9.2 δ 10.4
✓ Bot.	C10674	B	$\delta = 10.7$
✓ Bot.	C1423	B	B n. m. $\gamma = 10.8$ $\delta = 11.2$ $\zeta < 8.0$ poor
✓ Bot.	C1441	B	γ 11.5 δ 12.5 $B = 9.0$ $\zeta = 10.4$ $\eta = 9.4$ θ 8.3 ι 8.2
✓ Bot.	C1572	B	γ 10.3 δ 10.5 $B = 8.0$ $\zeta = 9.4$ $\Phi = 8.0$ η 8.8 θ 8.0 ι 8.0
✓ Bot.	C1614	B	ζ 9.0 $\eta < 8.0$
✓ Top	C2852	B	ζ 9.2
✓ Bot.	C6611	B	γ 9.5
✓ Top.	C8816	B	γ 10.5 $\delta = 11.0$ $\zeta = 8.0$
✓ Bot.	C9803	B	~~δ~~ < 8.0 ι 8.0
✓ Bot	C9804	B	$\delta < 8.0$ ι 8.2
✓ Bot.	C9806	B	ι 9.2
✓ Bot	C9832	B	$\gamma = 8.0$ $B = 8.8$
✓ Bot.	C9872	B	K n. m. B 9.0
✓ Bot	C9882	B	γ 11.0 δ 11.2 ζ 10.7 η 8.8 B 9.0 θ 8.2 ι 9.0
✓ Bot.	C1480	B	γ 12.5 δ 13.0 ζ 10.8 η 10.4 θ 10.3 ι 10.3 B 11.0 F 9.5 K 9.0 λ 9.0 μ 8.0 ν 9.2
✓	I1646	B	γ 11.0

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Thursday Mar. 21, 1918.

Re-measures — o Cet.

Plate No.	Jc		Remarks
✓ C 9942	B	$\delta = 11.0$	Bot.
✓ C 10859	B	$\eta = 8.2$	Top.
✓ C 10897	B	$\eta = 10.0$ $\phi = 8.2$ $i = 8.0$ $B = 9.4$	Top.
✓ C 11624	B	$\gamma = 10.7$ $\delta 10.8$ $\zeta 10.7$ $\eta 10.5$ $\phi 10.0$ $i 10.0$ $B = 9.8$ $F = 9.5$ Duo. $K 8.8$ $\lambda 8.2$	Bot.
~~C 10893~~	~~B~~		
✓ C 10893	B	$i = < 8.0$	Bot.
✓ C 1431	B	$\gamma = 10.7$ $\delta = 11.0$ $\zeta = 8.0$	Bot.
✓ C 9658	B	$\gamma = 9.2$	Bot.
✓ C 17106	B	$\gamma = 10.7$ $\delta = 11.0$ $\zeta = 10.0$ $\eta = 8.8$ $\phi = < 8.0$ $i = 8.0$	Bot.
✓ C 10681	B	$\gamma = 11.0$ $\delta = 11.3$ $\zeta = 9.8$	Bot.
✓ C 9898	B	$\gamma 10.7$ $\delta 11.0$ $\zeta = 10.6$ $\eta 10.2$ $\gamma 10.0$ $i 10.2$ $B 9.2$	Top.
✓ C 11517	B	$\gamma 11.5$ $\delta 12.0$ $\zeta 10.7$	Top.
✓ C 10707	B	$\gamma = 9.4$ $\delta = 9.7$ $\zeta = 9.4$	Bot.
✓ C 12149	B	$B 9.0$	Bot.
✓ C 9889	B	$\gamma = 9.4$ $\delta = 10.5$ $B 8.0$ $\zeta = 10.0$ $\eta 9.3$ $\phi 9.0$ $i 9.2$ Duo.	Mid.
~~C 9~~			
✓ C 9859	B	$\gamma 10.7$ $\delta = 11.0$ $B = 9.0$ $\zeta 10.2$ $\eta 9.5$ ~~$\phi 9.3$~~ $i 9.5$	Bot.
✓ C 12138	B	$B 8.7$ $\gamma = 10.5$ $\delta = 11.2$ $\Theta = 8.0$ $\zeta = 9.4$	Bot.
✓ C 11579	B	$\gamma 11.0$ $\delta 11.5$	Bot.
✓ C 9858	B	$\delta = 11.5$	Bot.
✓ C 10695	B	$\gamma = 10.6$ $\delta = 10.7$ $\zeta = 8.8$	Top.
✓ C 11590	B	$\gamma 10.7$ $\delta 10.9$ $B 9.3$ $\zeta 10.4$ $F = 9.2$ $\eta 10.2$ $\Theta 9.7$ $i 9.3$ $K 8.0$ $\lambda 8.0$	Bot.
~~C 12199~~			
✓ C 12199	B	$\gamma 10.7$ $\delta 11.3$ $B 8.2$ $\zeta 10.4$ $\eta 9.0$	Top.
✓ C 11610	B	$\gamma 11.5$ $\delta 12.0$ $B 10.3$ $F 10.2$ $\zeta 11.0$ $\eta 10.8$ $\phi 10.3$ $i 10.3$ $K 10.0$ $\lambda 9.8$ $\mu 9.2$ $\nu 9.4$	Bot.
✓ C 9984	B	$\gamma 10.7$ $\delta 11.0$ $B 9.5$ $\zeta 10.5$ $\eta 10.4$ $\phi 9.5$ $i 9.5$	Top.

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Thursday Mar. 21, 1918

Re-measures o Ceti.

Plate No.	Co.			Remarks.
C9785	B	γ 10.6 δ 10.9 S 9.3	✓	Typ.
C10755	B	β 9.7	✓	Typ.
C12189	B	δ 12.3	✓	Bet.
C11558	B	γ 12.0 δ 13.0 B 8.8 J 10.8 η 10.2 ζ 8.0	✓ Duo?	Typ.
C9965	B	γ 10.4 δ 11.0 B 8.0 S 9.9 η 8.2	✓	Typ.
C9758	B	η 9.2	✓	Bet.
C10726	B	β 9.2 γ 11.2 δ 12.0 B 9.0 J 10.3 η 8.0	✓	Typ.
C11483	B	S 9.0	✓ Duo.	Bet.
C10741	B	B 8.8	✓	Bet.
C9748	B	γ <9.0 i 8.8 B 8.0	✓	Bet.
C9930	B	B 8.2	✓	Typ.
C10584	B	γ n.v.	✓	Bet.
C11559	B	γ 11.5 δ 12.0 S 10.8	✓	Typ.
C16721	B	γ 11.0 δ 11.3	✓	Bet.
C9808	B	S 9.8 η <8.0 ζ 8.0 i 8.2	✓	Duo Typ.
C16722	B	δ 12.5 ζ 8.8	✓	Duo. Bet.
C10652	B	γ 9.0 δ 10.0	✓	Bet.
C10914	B	δ 11.0	✓	Bet.
C11496	B	i 9.2	✓	Bet.
C11468	B	B 10.8 γ 11.0 δ 11.3 B 9.3 S 10.7 η 9.8 ζ 9.0 i 8.2	✓	Bet.
C17107	B	γ 10.8 δ 11.0 B 9.0 i 8.8	✓	Duo. Typ.
C10686	B	δ 11.0 B 8.2	✓	Bet.
C12172	B	γ 9.0 δ 10.0	✓	Bet.
C11524	B	γ 11.3	✓	Bet.
C12795	B	B 9.0 δ <8.0	✓	Bet.
C11599	B	γ 11.0 δ 11.3 B 9.3 ζ 9.2 S 10.8 η 10.6 ζ 10.2 i 10.0 K 9.0 λ 9.0 μ 8.0 ν 8.0	Duo. ✓	Typ.

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Steward Mpar. 21, 1918

Re-measures of 0 Cett.

Plate No.	Sc.			
C12266	B	γ 8.2 δ 9.0	✓	Ast.
C 11633	B	μ 8.8 ν 9.0	✓	Sup.
C 2867	B	δ 11.2	✓	Sup.
C 1420	B	β int. wing γ 11.5 δ 12.0 B 9.2 δ 11.0 F. 8.2 η 10.7		Bot.
~~C 11563~~	~~B~~		δ 10.4 ι 10.5 ✓	
C11563	B	δ 9.8 ι 9.7	✓	Bot.

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1917phae.proj..702B

Friday, Mar. 22, 1918

Remarks – o Ceti.

		Plate No.	Sc.			
Lso.	Bot.	C16710	B	δ 11.5		✓
	Top	C11432	B	δ 11.3		✓
	Top.	C10817	B	η 7.4	i 4.5	✓
	Top.	C12240	B	i 8.0	R 8.2	✓
	Top	C11574	B	δ 11.3	V 8.8	✓
	Top.	C10791	B	δ 10.7		✓
	Top.	C12234	B	δ 11.0	8.2 i 8.0 B 9.0	✓
	Bot.	C11474	B	β 10.8 γ 12.0	δ 13.0 R 10.0 S 11.5 η 10.7	
	Bot.	C11485	B	β 10.3 γ 11.0	9.8 i 9.7	✓
				δ 11.5 B 9.2 S 10.7 η 9.8	8.0 i 8.0	✓
	Top.	C12202	B	γ 10.5 δ 11.2	B 8.8 S 10.3 η 8.8	✓
Lso.	Top.	C16724	B	β 10 – γ 11.0	δ 11.2 B 8.0 S 10.4 η 9.0	
		~~C16611~~			8.2 i 8.0	✓
	Bot.	C10666	B	γ 10.8 δ 11.2	S 9.3	✓
	Top.	C10967	B	γ 10.2 δ 10.7	B 9.0 S 9.8 η 9.3	✓
	Top	C9826	B	γ 10.5 δ 10.9	B 8.4 S 10.2 η 9.4	8.4 i 9.4
	Top	C6606	B	γ 9.4 δ 9.9		✓
	Bot	C16723	B	γ 11.2		✓
	Bot.	C16718	B	γ 10.9 δ 11.2		✓
	Bot	C9819	B	9.4		✓
	Bot.	C9706	B	γ 10.4 δ 10.9		✓

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1917phao.proj.. 7029

Friday Apr. 5, 1918

Remeasures - o Ceti.

Platte 1c.

Ast. C9882 B δ11.2 η 9.3 B9.0 Lacks K. ✓
Top C9898 B δ 9.7 i 10.0 ✓
Ast C10707 B B9.2 γ 9.2 δ 9.8 B9.8 ε9.7 η 8.0 ✓
Ast C12138 B B8.0 Not B. ✓ ✓
Top C9785 B γ 10.3 δ 10.8 ε9.1 ✓ ✓
Ast. C9748 B B8.0 ✓ –
Top C9808 B η 9.0 ✓ –
Ast C16722 B δ 12.8 Lacks. ✓ ✓
Top. C16724 B γ 11.8 δ 12.0 D. Lacks. ✓ ✓
Top C11633 B λ 9.2 ✓ –
Top C11599 B γ 11.0 δ 12.0 B9.7 ε10.7 η 10.6 F9.6 Lacks? ✓
Top C12202 B B 9.3 δ 10.2 i 10.2 K 9.0 λ 8.8 ✓
Ast. C9827 B B8.4 ✓
Ast C12145 B B8.0 δ 11.0 ✓
Ast C11661 B K <8.0 λ <8.0 ✓
Ast. C9657 B γ 8.8 ✓
Top C9705 B δ 10.7 ✓
Ast C1423 B δ 10.8 D. Lacks. ✓
Ast. C1572 B γ 10.2 δ 10.5 B9.0 ε9.8 η 9.0 K 8.0 λ 8.0 ✓
Ast C12122 B γ 9.3 δ 10.4 ✓
Ast C9882 B δ 11.2 η 10.5 B 9.2 ✓
Ast C9668 B γ 8.3 ✓
Ast C12266 B γ 8.5 δ 10.6 ε9.2 η <8.0 –
Q12411 K 8.0 ✓
Q16658 γ 8.0 δ 10.3 ✓

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1917phae.proj..702B

N.B. - Use as additional measures. - for revised method of meas. & recording
See P. 78 of this book and following.

Wednesday Apr. 17, 1918

R Hydrae

Sc.	Plate No.	γ	δ		Remarks.
B	B13149	9.3	10.0		
B	B15573	11.3	11.5		fr.
B	D 853	n.e <8.0	9.8		Fogged.
B	B40573	n.e <8.0	10.3	Chk. 4227 + δ = 10.2	
B	D 1074	10.0	10.7	Spec. uneven intensity	all measured lines in mid.
B	D 32524	n.e <8.0	9.6		Fogged.
B	B8556	10.1	10.5	Spec. uneven - meas.	mid.
B	D 1010	n.e <8.0	10.4		
H	B13390			Spec. too faint. No lines seen.	
B	B13132	9.3	10.5		
B	~~B13165~~	9.4	8.5	Wrong Star.	
B	D 32915	9.3	10.6		
	D 35803			Does not cover.	
B	D 34024	9.2	10.4		
B	D 14658	10.9	11.0	Trailed meas. top image.	
B	D 14858	10.8	11.3	δ 10.2 η 9.7	Trailed - Top.
B	D 14594	11.0	11.4	Spec. Very Black	
B	D 14609	10.9	11.2		
B	D 14625	10.8	11.2		
B	B4961	n.e <8.0	10.4		
B	B3633	9.8	10.3	δ 9.3	
B	B3631			Plate too poor Spec. n. e.	fr.
B	B5357	9.8	10.4		
B	B5201	10.5	11.4		d. fr.
B	B5131	10.3	10.9	δ 9.1	
	B 8245			Chart.	
B	8505			Chart.	
	B13754			Spec. faint - no lines seen.	

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1917plate.proj...7028

N.B. - see note top of P. 74 of this book.

Wednesday Apr. 17, 1918

P Hydrae.

Sc.	Plate No.	α	δ	Remarks
B	B13149	9.3	10.6	
B	D14594	10.9	11.2	very Black spc.
	B13754			Spec very faint No lines seen
B	B5131	10.4	10.9	59.1
B	B5201	10.5	11.3	e.p.
B	B5357	9.9	10.4	
	B3631			Plate very poor Spec n.e.
B	B3633	9.5	10.3	59.3
B	B4961	n.e. <8.0	10.4	
B	D14625	10.8	11.1	Spec Black
B	D14858	10.8	11.0	Fraded - 90p.
B	D14658	10.9	11.1	Fraded - 90p.
B	D34024	n.e. <8.0	10.4	
	D35803			Dots not cover.
B	D32915	9.2	10.4	
B	~~B13165~~	9.5	8.3	58.1 38.0 ok Wrong Star
B	~~B13132~~	9.8	9.1	Wrong Star mean
	B13396			Spec very faint No lines Fogged
B	D1010	n.e. <8.0	10.3	
B	B5550	10.1	10.7	Spec uneven inten. Min. center
B	B13132	9.2	10.4	
B	B13165	n.e. <8.0	9.8	
B	D32524	n.e. <8.0	9.4	p Fogged.
B	D1074		10.6	Dense in region of f.
	~~B40573~~			Uneven intensity uneven mid
B	B40573	n.e. <8.0	10.4	C Ref. 4227 + δ 10.3
B	D853	n.e. <8.0	10.2	Fogged
B	B15573	10.9	11.3	Very Black.
B.	D14609	11.0	11.4	

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1917phae.proj..702B

NB - See note at top of P. 74 of this book

Monday Apr. 22, 1918

R Hydrae

Sc.	Plate No.	γ	δ	ε	η	Remarks.
B	B44478	9.6	10.4	9.2	8.0	
	B42403					p. Very faint spec. No lines.
	B42337					p. " " " " "
	B42378					Edge. Spec. barely seen. " "
	B42252					" " " " "
	B43721					Spec. Very faint No lines.
	B43729					p. Spec. not seen.
	B43737					Spec. not seen.
B	B43665	9.6	9.8			
B	B43651	9.5	9.8			
	B43896	?				
	B43900	?				
	B41221					Spec. too faint. No lines.
	B9444					" not seen.
	B8284					p. " faint no lines.
	B9117					i p. Spec. not seen
	B7981					Very poor plate Spec. not seen
	B7982					" " " " "
	B7989					Does not cover.
	B7990					Spec. very faint.
	B40451	Line hit #227 + δ = 10.2				
	B41187					Spec. not seen.
B	B13148	?	10.4			p
	B13431					Spec. Not seen would be near edge
	B11325					" " " " " "
	B11326					" " "
	B10823	? see @ 43896 43900				
B	B3373	10.4	10.4	ε10.2	η9.7	ζ8.5

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1917phot..proj..7020

9B - See note at top of p. 74 of this book

Monday Apr 22, 1918

R Hydrae.

Ic	Plate	γ	δ	ε	η	Remarks.
B	B3634	9.4	10.3	8.7	8.1	
B B	B3673	10.2	10.6	9.2		
	B6217			t.p.		
	B9605			Spec. n.v.		
	B9604			Spec. n.v. Would be on edge.		
	B43002	Trail of		bright star covered region		
	B40575			Edge.		
	B40434	very short		Spec. n.v. edge. — δ bright?		
	B13753			Spec. n.v. would be on edge.		
	B35803	Edge - blurred		δ ε η & c' seen.		
	B40315	n.v.	9.8			
	B40558			γ n.v. Does not cover		
	B41400			Spec. not seen.		
	B43246			Spec. barely seen No lines		
	B4960			Poor plate δ bright.		

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N.B. - See note at top of P. 74 of this book.

Thursday May 16, 1918

Spectrum R Hydrae — First measure

Plate No.	Sc.	y	δ	S	η	Rect. 42274 δ	Int.	Remarks.
B 13149	B	9.3	10.6				4	
B 40573	B	n.r	n.r.			nr. 4227 / nr. δ 10.2 10.2	5	
B 9444							2	No lines seen
B 41221							1	" " "
B 43665	B	9.4	9.6				5	
B 43737							n.r.	Poor plate.
B 43729							n.r.	" "
B 43721							2	No lines
B 42252							n.r.	
B 42378							n.r.	
B 42337							3	No. lines.
B 42403							1	No lines.
B 44478	B	9.6	10.2	9.2	8.0		7	
B 3673	B	9.8	10.4				~~5~~ 4	

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Friday May 17, 1918

Spectrum R Hydrae. - First measure.

Plate No.	Sc	x	δ	Int.	Remarks.
B 3631				—	Does not cover.
I 1074	B	n.a	10.6	7	
B 13754	B			3	No lines.
I 853	B	n.a.	10.3	4	
I 14609	B	10.8	11.1	9	
B 15573	B	11.3	11.5	10	Edge - Black
I 14594	B	11.0	11.2	9	
B 8550	B	10.0	10.4	6	Spec. uneven - Meas. Mich.
I 1010	B	n.a.	10.3	4	
B 13390	B		9.?0	2	
I 32915	B	9.4	10.3	6	
I 34024	B	?	10.4	7	

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Saturday May 18, 1918

Spectrum R Hydrae – First measure.

Plate No	Sc.	γ	δ	ε	ζ	Int.	Remarks.
D 14658	B	10.8	11.0			9	
D 14858	B	10.5	11.0			9	
D 14625	B	10.7	11.0			9	
B 5357	B	?	10.4			7	
B 3633	B	10.2	10.4	9.1		5	
B 4961	B	9.0	10.4			5	
B 5201	B	10.4	11.0			9	Edge fg.
B 13165	B	—	9.9			5	
B 5131	B	10.4	10.9			7	
D 32524	B	—	9.4			4	
B 40315	B	—	9.5			4	
B 40434	B	?	?			3	Very short spec near edge
B 13132	B	9.3	10.4			5	
B 10823	B	9.2	8.2			2	
B 43900	B	~~8.0 8.0~~	→ not γ + δ {3 bright lines}			2	
B 43896			Compare B 43900			2	
B 43651	B	9.7	9.8			5	
B 30326							Bart.
B 3634	B	9.4	10.2	9.0	8.2	5	
B 33373	B	10.4	10.8	10.0	9.2	5	
B 13148	B	—	10.3	—	—	4	
B 41187	B					1	No lines.
B 40451	B	?	10.3			4	
D 7990						1	No lines.
B 7982						9.2.	
B 7981						1	No lines
B 9117						9.2.	
B 8284						2	No lines

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Monday Nov. 25, 1918

Spectrum R Hydrae – First measure.

2:30

Plate No.	Sc.	'	y	δ	ε	η	Int.	Remarks
B 9605								Spec. not seen.
B 9604								Spec. n.s. would be on edge.
B 7989								Dots not cover
B 11325								Spec. n.s. – edge.
B 11326								" " "
B 6217							6	Burnt out – Prism turned 90°
B 13431								Extreme edge n.s. Other stars at c. n.s.
I 33018	R		11.0	11.2	10.3	9.8	10	
I 25272								Just off edge.
I 25037								Spec. n.s. Plate fogged
I 7892								Does not cover.
I 33155								Does not cover
I 33089	B		10.7	10.9	9.7		8	
I 32524	B		n.s.	9.7			4	
I 32629	B		n.s.	10.1			4	
I 33868							3	no lines seen
I 32986	B		10.8	11.0			9	
I 38388	B		10.4	10.8	9.2	8.2	4	
I 38375	B		10.2	10.7	8.8	8.2	5	
I 38425	R		10.3	10.5			3	
I 35409							5	no lines seen poor plate fogged
I 5817								Plate useless completely fogged
I 5974								Spec n.s. edge of plate.
Q 852								t.p.
I 5926								Spec. n.s.
I 5989								Spec. n.s.

3:20

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1917phae.proj..702B

Tuesday Nov. 26, 1918

1:45

Spectrum – R Hydrae – First Measure

Plate No	Ac.	γ	δ	ε	η	θ	i	Int.	Remarks.
R 9381								4	Spec. banded. δ band in region of δ Spec. w. R. Would be on edge
B 13753									
B 35803	B	10.6	10.8	10.2	9.6	9.1	9.2	9	e. p.
B 40558									off edge
B 40575								4	no lines seen Spec. n. R would be near edge.
B 41400									
B 43002								3	Spec. seen mingled with head of bright star. lines not distinguishable Spec. n. R.
B 43246	~~R~~		~~faint~~						
R 4960	R		10.4					2	

Second Measures of D & B Plates.

B 43665	B	9.2	9.8					3.	
B 4960	B		10.3					3	
B 35803	B	10.8	11.0	9.9	9.5	9.2	9.2	9.	
B 40575								3	edge.
B 44478	B	9.6	10.2	9.1	7.9			4	
B 43651	B	9.4	10.1					3	
B 43737									Spec. n. R.
B 43729									Spec. n. R.
B 43721								2	no lines seen
B 43896	B	8.8	9.3	9.8				2	
B 43900	B	8.0	8.3	8.0				2	
B 40451	B	–	9.8					4	
B 41221								1	e. no lines
B 41187									Spec. n. R.
B 13754								3	no lines.
B 40434	B	–	9.9					1	extreme edge
B 40315	B	–	9.2					2	

Find 3:15

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Wednesday Nov. 27, 1918

Spectrum - Q Hydrae - Second meas. I + B Plates.

11:00

Plate No.	Sc.	γ	δ	ε	η	ϕ	i	Int.	Remarks.
B40573	B						+ Bet. 4227 wk. 8 wk. 4227 10.2 wk. 10.3	5	
B13390	B		9.1?					2	
B15573	B	11.0	11.2					9	considerably. Banded. (wk. e)
B10823	B		9.1	9.1				1	
B 7990								1	no lines. Spec. barely seen.
B9117									Spec. n. s. Plate fouled.
B13149	B.	9.3	10.7					3	
B13165	B		10.2	9.3				3	e. Lines broad + hazy.
B13132	B	9.2	10.7					3	
B13148	B		10.6					2	
B8550	B	10.2	10.7					6	
B 3633	B	10.2	10.6					5	
B5357	B	9.8	10.4					6	Lines broad + hazy
B 7982								1	no lines
B7981								1	no lines
B6217								4	Prism turned 90°
B4961	B		10.6					4	no lines. Spec. thin + burnt out
B3673	B	10.2	10.6					4	
B3631									scarcely anything on plate.
Q 5701	B	10.2?	10.8					7	Lines broad + hazy.
~~B5~~									
B5131	B	10.2	10.9					6	
B3634	B	9.2	10.4					4	
B3373	B	10.2	10.7					5	Lines hazy
B 9444									Spec. n. s.
B 8284								2	No lines seen
B42403								1	No. lines. Spec. barely seen
B42252								1	" " " " "

12:00

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Wednesday Nov. 27, 1918

Spectrum of R Hydrae — second meas. 20 B Plates.

2:30

Plate	Qc.	γ	δ	ε	η	Qual.	Remarks.
B42337						2	no lines.
B42378							Spec. on L. edge
Q 34024	B		10.3			5	
Q 32915	B	9.1	10.4			6	
Q 1074	B		10.3			6	
Q 853	B		10.1			4	
Q 1010	B		10.4			3	
Q 14658	B	10.8	10.9			9	
Q 14625	B	11.0	11.2			10	
Q 14594	B	10.9	11.0			9	
Q 14858	B	10.8	11.1	9.2		8	
Q 33089	B	10.8	11.0	9.2		8	
Q 35409		X				5?	jr. no lines? Fogged.
Q 38425	B	10.4	10.6	8.0		4	
Q 38375	B	10.1	10.7			6	
Q 38388	B	10.3	10.8	9.2		5	
Q 32986	B	10.9	11.2			8	
Q 33868	B		9.0?			3	
Q 32629	B		10.1			3	
Q 32524	B		9.1			3	
Q 33018	B	11.0	11.2			9	
Q 14609	B	11.0	11.2			9	

3:15

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Friday Nov. 29, 1918

Spectrum – Q Hydrae – First measures of C Plates.

11:00

Plate	Sc.		Dist.	Remarks.
C 15666	B	~~8.4 10.7 10.6 8.4~~ } See Below.	only one star on C Plate; cannot estimate dist.	Badly fogged.
C 15683	B	~~9.1 10.7 10.4 9.1~~ } See Below.		t.p. Ido.
C 9946				Nothing on plate
C 9166				Ido.
C 16889				Nothing on plate
C 4692				Ido. Nothing on plate
C 16887				Lines hazy
C 9007	B	10.7 10.8 8.7		
~~C 8946~~		~~10.6 10.7 8.~~		
C 15666	B	10.6 10.7 8.4 }		
C 15683	B	10.4 10.7 9.1 }		
C 8946	B	10.5 10.8		
C 4655				Useless.
C 15690	B	10.7 10.8 9.4		
C 4662				Useless.
C 16892				~~Dist~~ Does not come
C ~~4~~ 4675				Useless.
C 9043	B	10.7 10.9 8.9		Lines Hazy
C 16882				t.p. Ido?
C 9088	B	9.8 10.3		Fogged
C 15385	B	n.s. 9.9		
C 9145	B	10.4 10.8 9.2		Bad focus
C 15396	B	n.s. 10.4		
C 9962				Ido.

11:30

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Friday Nov. 29, 1918

11:30 Spectrum R Hydrae — Second Objective C Plates.

Plate	So.	λ	δ	J	Remarks
C 9043	B	10.5	11.0	~~9.1~~	Fogged Lines Hazy
C 15690	B	10.7	11.0	9.3	
C 8946	B	10.4	10.9		
C 9007	B	10.4	10.7	8.8	Lines Hazy
C 15683	B	10.3	10.7	9.0	Badly fogged
C 15666	B	10.4	10.7	8.3	
C 15396	B	n.s	10.4		
C 9145	B	10.4	10.9	9.1	Leo? Bad focus
C 15385	B	n.s.	9.8.		
C 9088	B	9.4	10.4		Fogged

11:40

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1917phae.proj..702B

Tuesday. Feb. 18, 1919

11:30 First meas

MC 6671 – Measures of intensity of spectra with Wedge 89109

Two series of numbers on plate one in red, one in black.

(The red nos. are now transfered from MC 44 15)

No. Red Black Stars requiring two measures, that is, where there is a break in the spectrum, are given in these two columns, giving one meas of intensity each side of the break.

Where only one measure is made the background in the region of Hγ is ~~[illegible]~~ compared with the wedge.

N.B. When two measures were made (one at the blue end, the other at the red end), the mean is entered in ink in the column of single measures.

No.	Red	Black	Star No. in Red (Red end of Spec.)	Star No. in Black (Blue end of Spec.)	Star No. in Red (Red end of Spec.)	Star No. in Red (Blue end of Spec.)	Remarks
1	30.5	= Red 144					
2	26.5	19.5					
3	33.3	18.0					
4	35.0	17.5					
5	= Black 14	18.6					
6	33.5	21.5					
7	= Black 17?	21.4					
8	24.5	23.0					
9	21.50	21.5			24.0	19.0	
10	36.5	19.5					
11	20.40	15.5			22.3	18.5	
12	21.80	21.25	23.0	19.5	24.4	19.2	
13	= Black 26	17.40	18.5	16.3			
14	28.3	18.0					

12:20.

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1917phae..proj..702B

Tuesday Feb. 18, 1919

Fristomeas. MC 6671 — measures of intensity of continued Spectra with Wedge E9109

1:40 See Notes on P. 88 for explanation of recording

No.	Red	Black	Red end	Blue end	Red end	Blue end	Remarks.
			Red		Black		
15	51.0	21.5					Red very Bright
16	38.3	21.7					
17	45.6	22.0					
18	27.95	24.5	29.5	26.4			
19	21.30	21.4	24.0	18.6			
20	37.20	22.6	38.7	35.7			
21	28.7	21.5					
22	= Black 37	21.0					
23	= Black 36	19.5					
24	22.60	20.4	23.8	21.4			
25	31.5	19.5					
26	26.35	27.5	30.0	22.7			
27	28.80	19.5	29.3	28.3			
28	28.6	20.00			21.0	19.0	
29	50.7	20.0					
30	32.15	19.0	33.0	31.3			
31	28.0	17.7					
32	34.2	20.3					
33	36.45	22.3	40.4	32.5			
34	40.40	18.5	45.3	35.5			
35	.	18.75			20.5	17.0	Red 35 and 36 almost entirely superposed.
36	.	21.7					
37	25.0	25.8					Black partly superp. on Red 21 Red 37
38	36.4	19.50			21.0	18.0	partly superp. on faint star.
39	21.90	20.5	23.4	20.4			
40	23.35	20.0	23.7	23.0			
41	21.25	22.4	23.5	19.0			
42	17.75	22.3	19.5	16.0			

2:45

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1917phae.proj..702B

Wednesday Feb. 19, 1919

First meas 9:30

mC 6671 – measures of intensity of spectra with Wedge B 9109 continued.

See explanatory notes on P. 88.

No.	Red.	Black	Red end	Blue end	Red end.	Blue end.	Remarks
			Red		Black		
43	21.70	19.50	24.0	19.4	20.5	18.5	
44	21.10	20.5	21.7	20.5			
45	28.4	21.4					
46	29.0	19.4					Red partly superp. on Red 47
47	28.3	18.10			19.7	16.5	Red partly superp. on Red 46
48	24.0	19.3					
49	26.5	23.0					
50	25.7	= Red 147					
51	31.00 ~~32.00~~	= Red 149	34.5	27.5			
52	29.4	20.7					
53	28.5	19.5					
54	25.80	22.55	27.3	24.3	23.4	21.7	
55	30.5	22.3					
56	37.0	21.50			22.6	20.4	
57	27.00	20.75	28.5	25.5	22.0	19.5	
58	= Black 22	21.50			21.0	20.0	
59	= Black 24	19.80			21.2	18.4	
60	30.5	21.7					
61	23.5	19.35			20.4	18.3	
62	= Black 18	18.7					Black partly superp. on Black 63
63	31.5	?					
64	32.40	19.65	35.4	29.4	20.6	18.7	
65	26.5	19.6					
66	Too bright	20.6					
67	30.0	19.3					
68	43.5	22.4					
69	23.05	18.6	24.5	21.6			
70	26.70	18.5	28.4	25.0			

10:45

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1917phae.proj..702B

Thursday Feb. 20, 1919.

First Mess NC 6671 - Measures of intensity of spectra with Wedge continued. 69109

9:45 See explanatory notes regarding recording on P. 88

No.	Red.	Black.	Red end	Blue end	Red end	Blue end	Remarks. Red	Remarks. Black
			Red		Black			
71	27.4	20.30	~~21.9~~	+	21.4	19.2		
72	~~28.25~~ ~~29.75~~ 29.25	20.70	30.6	27.9	21.7	19.7		
73	35.5	19.35			20.3	18.4		
74	27.5	20.7						
75	45.4	20.20			20.7	19.7		
76	29.6	18.55			19.4	17.7		
77	Too Bright	18.35			18.9	17.8		
78	24.35	21.25	25.0	23.7	22.5	20.0		
79	= Black 41	19.50			20.0	19.0		
80	= Black 38	18.65			20.0	17.3		
81	= Black 43	19.70			21.0	18.4		
82	20.90	21.0	22.4	19.4				
83	20.00	20.25	20.4	19.6	21.0	19.5		
84	30.80	20.6	34.3	27.3				
85	31.45	21.3	34.5	28.4				
86	24.4	19.85			21.0	18.7		
87	24.60	20.60	26.8	22.4	21.7	19.5		
88	23.3	21.25			22.0	19.5		
89	29.2	23.5			*~~27.0~~	*~~25.5~~		
90	= Black 53	20.0						
91	27.2	18.8						
92	30.5	17.40			17.6	17.2		
93	30.30	18.25	33.8	26.8	19.0	17.5		
94	25.35	19.70	27.0	23.7	21.0	18.4		
95	~~22.0~~ 21.00	18.40	22.0	20.0	19.0	17.8		
96	= Black 55	20.0						Partly over on another plate
97	22.5	24.4						
98	29.5	26.25			27.0	25.5		

10:40 (*98 may. for 89)

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1917phae.proj..702B

Saturday Feb 22, 1919

First run MC 6671 — measures of intensity of Spectra. (continued.) with Wedge E9109

11:30

See explanatory notes on P. 88.

No.	Red	Black	Red end	Blue end	Red end	Blue end	Remarks Red	Remarks Black
			Red		Black			
99	26.5	20.45			21.4	19.5		
100	39.75	too faint.	44.0	35.5				
101	34.3	17.40			17.8	17.0		
102	21.65	19.5	24.0	19.3				Barely lick. on Black 103 Partly sup. on Black 102
103	21.5	17.4						
104	25.35	19.4	27.7	23.0				
105	= Black 120	20.0						
106	33.15	17.35	34.0	32.3	17.7	17.0		
107	28.7	19.50			20.6	18.4		
108	27.50	18.70	28.4	26.6	20.4	17.0		
109	29.4	18.65			20.0	17.3		
110	31.6	18.15			19.3	17.0		
111	32.4	18.45			19.5	17.4		
112	20.95	20.45	22.7	19.2	21.6	19.3		
113	34.7	22.60			23.2	22.0		
114	25.55	19.90	28.6	22.5	20.5	19.3		
115	27.2	18.0						
116	25.4	17.35			17.7	17.0		
117	= Black 83	24.5						
118	38.0	25.0						
119	= Black 81	18.25			19.0	17.5		
120	= Black 72	23.0						
121	21.45	19.6	22.4	20.5				
122	19.50	21.65	20.5	18.5	23.3	20.0		
123	25.5	21.00			22.0	20.0		
124	21.95	17.70	23.5	20.4	18.4	17.0		
125	20.10	21.5	21.0	19.2				
126	too Bright.	19.90			20.3	19.5		
12:30 127	25.25	18.00	26.0	24.5	18.5	17.5	Partly sup. on Red 126	

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1917phae.proj..702B

Saturday Feb. 22, 1919

First Mean MC6671– measures of intensity of Spectra (continued) with wedge E 9109

See explanatory notes on P. 88.

3:10

Blank Nos. run only three 127

No.	Red	Red end	Blue end	Remarks
128	25.0			
129	26.2			
130	24.6			
131	33.80	36.4	31.2	
132	31.20	33.4	29.0	
133	31.35	32.4	30.3	
134	25.5			
135	39.5			
136	24.0			
137	35.7			
138	30.0			
139	29.50	30.5	28.5	
140	23.90	25.5	22.3	
141	20.75	22.0	19.5	
142	20.30	21.4	19.2	
143	= Blank 121			
144	21.25	22.5	20.0	
145	20.85	22.3	19.4	
146	= Blank 49			
147	19.85	20.4	19.3	
148	20.20	21.0	19.4	
149	19.65	20.0	19.3	
150	21.25	22.0	20.5	
151	37.0			
152	29.0			
153	39.5			
154	25.0			Parsety rep on 155
155	46.0			

3:35

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1917phae.proj...702B

First Mess

Saturday Feb. 22, 1919

NC 6671 – Measures of intensity of Spectra with wedge 69109 concluded.

See explanatory notes on P. 88.

3:35 No.	Red	Red end Red	Blue end	Remarks
156	31.0			
157	27.7			
158	34.40	35.8	33.0	
159	= Blank 89			
160	23.25	24.0	22.5	
161	22.80	24.0	21.6	
162	= Blank 87			
163	= Blank 97			
164	= Blank 122			
165	34.0			
166	22.75	23.5	22.0	
3:40				

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9:30 Tuesday Feb. 25, 1919

Second measures MC 6671 — measures of intensity of spectra with Wedge E9109

See explanatory notes on P. 88.

No.	Red	Black	Red end (Red)	Blue end (Red)	Red end (Black)	Blue end (Black)	Remarks: Red.	Remarks: Black.
1	28.7	= Red 44						
2	25.0	18.75			19.5	18.0		
3	32.0	17.50			18.5	16.5		
4	36.4	16.95			18.5	15.4		
5	= Black 14	16.55			17.7	15.4		
6	35.4	20.15			21.0	19.3		
7	= Black 12	21.00			21.5	20.5		
8	25.0	20.50			21.5	19.5		
9	22.90	17.75	25.5	20.3	18.5	17.0		
10	35.50	20.5	36.5	34.5				
11	21.30	16.3	23.0	19.6				
12	23.25	21.35	24.5	22.0	24.0	18.7		
13	= Black 26	~~17.4~~ 18.60			19.7	17.5		27.4 is mean for Red 49 Partly sup on star.
14	29.5	22.4						
15	50.5	20.6						
16	39.0	21.5						
17	45.0	19.00			19.6	18.4		
18	28.05	22.7	28.6	27.5				
19	23.00	20.5	25.0	21.0				Partly sup on Black 18.
20	37.00	22.2	39.5	34.5				
21	31.5	20.25			22.0	18.5		
22	= Black 37	20.6						
23	= Black 36	19.7						
24	22.90	20.3	24.5	21.3				
25	31.0	19.85			20.7	19.0		
26	27.00	27.3	29.5	24.5				
27	29.90	19.15	30.5	29.3	19.6	18.7		
28	29.0	20.75			22.0	19.5		

10:10

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1917phae.proj..702B

Tuesday Feb. 25, 1919

Second Meas. MC 6671 - Hedge & 9109

1:50

See Notes P. 88.

No.	Red	Black	Red Red	Red Blue	Black Red	Black Blue	Remarks Red	Remarks Black
29	49.4	19.50			20.5	18.5		
30	31.80	18.75	33.4	30.2	19.5	18.0		
31	28.0	20.75			21.2	20.3		
32	34.6	20.50			20.7	20.3		
33	35.90	23.0	40.4	31.4				
34	39.35	17.10	44.0	34.7	17.7	16.5		
35	~~37.5~~	19.00			20.0	18.0	35 & 36 almost entirely superp.	
36	.	20.90			21.5	20.3		
37	25.5	25.0						Partly sup. on Red 21
38	36.0	19.70			20.4	19.0		
39	21.50	19.25	23.0	20.0	20.0	18.5		
40	23.00	18.90	24.0	22.0	19.4	18.4		
41	20.80	21.5	22.6	19.0				
42	20.50	24.5	21.3	19.7				
43	22.75	20.70	25.0	20.5	21.4	20.0		
44	21.50	20.00	23.0	20.0	20.3	19.7		
45	28.5	21.4						
46	28.5	19.5					Partly sup on Red 47	
47	27.0	18.35			19.7	17.0	Partly sup on 46	
48	24.4	19.4						
49	27.0	22.6						
50	25.5	= Red 147						
51	31.25	= Red 149	34.0	28.5				
52	29.5	22.0						
53	27.10	20.60	27.7	26.5	21.4	19.8		
54	25.15	23.25	26.7	23.6				
55	32.4	24.0			24.0	22.5		
2:30 56	37.5	23.00			24.8	22.0		

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1917phae.proj..702B

Wednesday Feb. 26, 1919

Second Mean. mC 6671 – Wedge E 9109

9:55

See P. 88

No.	Red	Black	Red Red end	Red Blue end	Black Red end	Black Blue end	Remarks. Red	Remarks. Black
57	27.00	21.55	29.0	25.0	22.6	20.5		
58	= Black 22	20.50			21.5	19.5		
59	= Black 24	18.75			20.0	17.5		
60	31.0	?			21.0	19.0		
61	22.45	20.00	23.4	21.5				
62	= Black 18	18.80			19.6	18.0		
63	31.6	20.0						
64	32.10	20.35	35.6	28.6	21.4	19.3		
65	27.0	19.50			20.0	19.0		
66	Too Bright	20.5						
67	29.4	20.0						
68	44.0	20.75			21.5	20.0		
69	23.75	18.30	26.5	21.0	19.0	17.6		
70	26.05	19.00	27.6	24.5	20.0	18.0		
71	28.4	21.20			23.4	19.0		
72	28.30	19.90	31.0	25.6	22.3	17.5		
73	36.6	20.80			21.3	20.3		
74	27.0	22.0						
75	47.5	20.60			21.5	19.7		
76	30.0	18.00			19.0	17.0		
77	Too Bright	18.50			19.5	17.5		
78	24.80	21.50	25.6	24.0	22.0	21.0		
79	= Black 41	20.00			21.0	19.0		
80	= Black 38	18.75			20.0	17.5		
81	= Black 43	19.25			21.0	17.5		
82	20.75	20.70	22.0	19.5	21.4	20.0		
83	22.0	19.50			20.0	19.0		
10:35 84	21.75	20.5	35.5	28.0				

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Wednesday, Feb. 26, 1919

Second Mass. MC 6671 – Wedge E 9109

1:30

See P. 88

No.	Red	Black	Red	Blue	Red	Blue	Remarks Red	Remarks Black
			Red and		Black and			
85	33.00	21.0	35.5	30.5				
86	23.00	22.0	23.5	22.5				
87	24.75	22.5	26.5	23.0				
88	22.5	20.25			21.0	19.5		
89	29.0	23.0						
90	= Black 53	21.0						
91	28.0	20.0						
92	29.4	17.25			19.0	15.5		
93	30.75	18.30	33.5	28.0	20.0	16.6		
94	26.25	19.25	28.5	24.0	21.0	17.5		
95	23.25	18.00	24.5	22.0	19.0	17.0		
96	= Black 55	21.0						
97	23.0	24.5						
98	30.0	26.75			28.0	25.5		
99	28.0	20.50			21.5	19.5		
100	40.20	too faint.	44.0	36.4				
101	33.0	19.0						
102	23.90	20.0	25.4	22.4				
103	23.7	18.0						
104	27.75	19.5	29.5	25.0				
105	= Black 120	21.0						
106	33.25	18.75	34.0	32.5	19.0	18.5		
107	28.6	19.75			21.5	18.0		
108	28.0	19.45			20.6	18.3		
109	29.0	19.10			20.7	17.5		
110	31.5	18.95			20.4	17.5		
111	32.5	19.25			21.0	17.5		
112	23.00	20.95	25.0	21.0	22.4	19.5		

2:00

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1917phae.proj..702B

Thursday Feb 27, 1919.

Second Meas – mC 6671 – Wedge E 9109

10:55 Sec P. 88

No.	Red	Black	Red Red	Red Blue	Black Red	Black Blue	Remarks Red	Remarks Black
113	34.0	21.00			22.3	19.7		
114	25.55	21.0	28.5	22.6				
115	26.0	19.0						
116	25.0	18.00			20.0	16.0		
117	= Black 83	24.0						
118	37.5	25.6						
119	= Black 81	19.5						
120	= Black 82	23.5						
121	22.00	21.0	23.0	21.0				
122	18.75	21.75	20.5	17.0	23.0	20.5		
123	25.0	23.0						
124	22.75	18.50	24.0	21.5	19.5	17.5		
125	19.75	21.0	20.5	19.0				
126	too Bright	21.0						
~~127~~					Black nos. run only thru 127			
127	23.50	19.00	25.0	22.0	20.0	18.0		
128	26.0							
129	27.3							
130	26.0							
131	34.00		36.5	31.5				
132	32.00		33.0	31.0				
133	31.55		32.5	30.6				
134	26.0							
135	39.5							
136	25.6							
137	35.4							
138	32.0							
139	30.00		31.0	29.0				

11:15

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1917phae.proj...702B

Thursday Feb 27, 1919

Second Meas. MC 6671 - Hedge 6 9109

11:15

See P. 98

No.	Red	Red end	Blue end	Remarks.
140	24.00	26.0	22.0	
141	20.25	23.0	17.5	
142	20.25	21.7	18.8	
143	= Blank 121			
144	20.65	22.5	18.8	
145	20.75	23.0	18.5	
146	= Blank 49			
147	20.55	21.4	19.7	
148	20.00	21.0	19.0	
149	20.4			
150	22.25	23.5	21.0	
151	36.20	37.0	35.4	
152	31.0			
153	39.0			
154	27.0			Pretty sup. on 155
155	46.0			" " on 154
156	30.6			
157	28.4			
158	34.75	36.5	33.0	
159	= Blank 89			
160	24.00	25.0	23.0	
161	25.0			
162	= Blank 87			
163	= Blank 97			
164	= Blank 122			
165	33.5			
166	22.70	24.4	21.0	

11:30

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1917phae.proj..702B

Two stroke indicate that the star was considered suitable for both measures. Three strokes, — most eminent suitable. Four strokes, — most reliable. Five strokes, — considered reddest, best stars.

Copy of Measures on pp. 88 — 100. arranged so as to bring 1st & 2nd measures of the same star side by side.

Series of stars numbered in black on

M c 6671

Meas. Mar. 25, 1919 11:25

no. of settings		No.	1st meas.	2nd meas.	Mean.	Resid.		mag. fr. B, from curve by Table.	Dist. from Center
		1	= Red 44						
1	II	2	19.5	18.75	19.12	38	37	10.40	79 s f
1	II	3	18.0	17.50	17.75	25	25	10.62 e	77 s f
1	II	4	17.5	16.95	17.22	28	27	10.73 e	74 f
1	II	5	18.6	16.55	17.58	102	103	10.65 e	76 s f
1	II	6	21.5	20.15	2082	.68	67	10.14	73 s f
1	II	7	21.4	21.00	21.20	20	20	10.10	86 s f
1	II	8	23.0	20.50	21.75	125	125	10.01	96 s f
1	II	9	21.5	17.75	19.62	188	187	10.32	93 s f
1	I	10	19.5	20.5	20.00	50	50	10.26	79 s f
1	I	11	15.5	16.3	15.90	40	40	10.94 e	89 s f
II	II	12	21.25	21.35	21.30	05	05	10.07	68 s f
II	II	13	17.40	18.60	18.00	60	60	10.58 e	58 s f
1	I	14	18.0	22.4	20.20	220	220	10.24	68 s f
1	I	15	21.5	20.6	21.05	45	45	10.12	50 f
1	I	16	21.7	21.5	21.60	10	10	10.04	48 f
1	II	17	22.0	19.00	20.50	150	150	10.18	47 s f
1	I	18	24.5	22.7	23.60	90	90	9.76	49 s f
1	I	19	21.4	20.5	20.95	45	45	10.12	48 s f
1	I	20	22.6	22.2	22.40	20	20	9.93	31 f
1	II	21	21.5	20.25	20.88	62	63	10.13	36 s f
1	I	22	21.0	20.6	20.80	20	20	10.14	28 s f
1	I	23	19.5	19.7	19.60	10	10	10.32	26 f
1	I	24	20.4	20.3	20.35	05	05	10.22	29 s f

+43° 322 (See Red 5) Two distinct stars.

11:30

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1917phae.proj..702B

Copy of

NC 6671 - Measures with Wedge E 9109

Series numbered in black

11:30

no. setting			No.	1st meas.	2nd meas	Mean	Resid.		Mag.	dist from center
1	11		25	19.5	19.85	19.68	18	17	10.31	56 s ✓
1	1		26	27.5	27.3	27.40	10	12	9.24	62 s ✓
1	11		27	19.5	19.15	19.32	18	17	10.36	75 s ✓
11	11		28	20.00	20.75	20.38	38	37	10.21	57 s ✓
1	11		29	20.0	19.50	19.75	25	25	10.30	48 s ✓
1	11		30	19.0	18.75	18.88	12	13	10.43	43 s ✓
1	11		31	17.7	20.75	19.22	152	163	10.38	29 s ✓
1	11	017a	32	20.3	20.50	20.40	10	10	10.20	14 s ✓
1	1		33	22.3	23.0	22.65	35	35	9.89	10 s
1	11		34	18.5	17.10	17.80	70	70	10.62 e	25 s
11	11		35	18.75	19.00	18.88	13	12	10.43	32 s
1	11		36	21.7	20.90	21.30	40	40	10.07	48 s
1	1		37	25.8	25.0	25.40	40	40	9.49	48 s
11	11		38	19.50	19.70	19.60	10	10	10.32	33 s f
1	11		39	20.5	19.25	19.88	62	63	10.28	35 s f
1	11		40	20.0	18.90	19.45	55	55	10.35	37 s f
1	1		41	22.4	21.5	21.95	45	45	9.99	47 s f
1	1		42	22.3	24.5	2340	110	110	9.78	72 s f
11	11		43	19.50	20.70	20.10	60	60	10.25	19 s
1	11		44	20.5	20.00	20.25	25	25	10.24	20 f
1	1		45	21.4	21.4	21.40	00	00	10.06	23 f
1	1		46	19.4	19.5	19.45	05	05	10.35	24 s
11	11		47	18.10	18.35	18.22	12	13	10.55 e	31 f
1	1		48	19.3	19.4	19.35	05	05	10.35	38 f
1	1		49	23.0	22.6	22.80	20	20	9.87	44 n f

50 = Red 147

51 = Red 149

11:45

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1917phae.proj..7022

copy of

MC 6671 — Measures with Wedge E. 9109

Series numbered in Black.

No settings	No.	1st meas.	2nd meas.	Mean.	Period.		Mag.	11:45 Dist fr. center
1	1	52	20.7	22.0	21.35	65	65	10.06	45 n p.
1	11	53	19.5	20.60	20.05	55	55	10.27	55 p.
11	11	54	20.55	23.25	21.90	135	135	9.99	48 p
1	1	55	22.3	24.0	23.15	85	85	9.82	67 p
11	11	56	21.50	23.00	22.25	75	75	9.95	72 p
11	11	57	20.75	21.55	21.15	40	40	10.10	60 p
11	11	58	21.50	20.50	21.00	50	50	10.12	63 n p
11	11	59	19.80	18.75	19.28	52	53	10.36	62 n p
1		60	21.7	not meas.	21.70	a		10.02	69 n p
11	11	61	19.35	20.00	19.68	33	32	10.31	64 n p.
1	11	62	18.7	18.80	18.75	05	05	10.44	65 n p
	1	63	not meas.	20.0	20.00		a	10.26	69 n p
11	11	64	19.65	20.35	20.00	35	35	10.26	74 n p
1	11	65	19.6	19.50	19.55	05	05	10.33	58 n
1	1	66	20.6	20.5	20.55	05	05	10.17	15 n.
1	1	67	19.3	20.0	19.65	35	35	10.32	25 n.
1	11	68	22.4	20.75	21.58	82	83	10.04	16 n
1	11	69	18.6	18.30	18.45	15	15	10.51	16 n p
1	11 017	70	18.5	19.00	18.75	25	25	10.44	11 p
11	11 015 40	71	20.30	21.20	20.75	45	45	10.14	16 n p
11	11	72	20.70	19.90	20.30	40	40	10.23	47 f
11	11	73	19.35	20.80	20.08	73	72	10.25	49 f
1	1	74	20.7	22.0	21.35	65	65	10.06	52 f
11	11	75	20.20	20.60	20.40	20	20	10.20	55 f
11	11	76	18.55	18.00	18.28	27	28	10.53	57 f
11	11	77	18.35	18.50	18.42	07	08	10.51	65 f
11	11	78	21.25	21.50	21.38	13	12	10.06	11:55 67 f

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1917phae.proj..702B

Copy of

NC 6671 — Measures with Wedge E9109

Series numbered in Black. 11.55

no. settings		No	1st meas.	2nd meas.	Mean	Raid.	Mag.	Dist from center
11	11	79	19.50	20.00	19.75	25 25	10.30	68 f
11	11	80	18.65	18.75	18.70	05 05	10.45	68 nf
11	11	81	19.70	19.25	19.48	22 23	10.34	55 nf
1	11	82	21.0	20.70	20.85	15 15	10.14	59 nf
11	11	83	21.25	19.50	20.38	87 85	10.21	65 nf
1	1	84	20.6	20.5	20.55	05 05	10.17	68 nf
1	1	85	21.3	21.0	21.15	15 15	10.10	76 nf
11	1	86	19.85	22.0	20.92	107 108	10.13	80 nf
11	1	87	20.60	22.5	21.55	95 95	10.04	97 nf
11	1	88	21.25	20.25	20.75	50 50	10.14	105 nf
1	1	89	23.5	23.0	23.25	25 25	9.81	102 nf
1	1	90	20.0	21.0	20.50	50 50	10.18	88 nf
1	1	91	18.8	20.0	19.40	60 60	10.35	82 nf
11	11	92	17.40	17.25	17.32	08 07	10.71 e	61 f
11	11	93	18.25	18.30	18.28	03 02	10.53	71 f
11	11	94	19.70	19.25	19.48	22 23	10.34	72 f
11	11	95	18.40	18.00	18.20	20 20	10.55 e	67 f
1	1	96	20.0	21.0	20.50	50 50	10.18	48 nf
1	1	97	24.4	24.5	24.45	05 05	9.63	80 nf
11	11	98	26.25	26.75	26.50	25 25	9.35	88 nf
11	11	99	20.45	20.50	20.48	03 02	10.18	85 nf
		100	so faint	—	—	—	—	
11	1	101	17.40	19.0	18.20	80 80	10.55 e	58 nf
1	1	102	19.5	20.0	19.75	25 25	10.30	51 nf
1	1	103	17.4	18.0	17.70	30 30	10.63 e	54 nf
1	1	104	19.4	19.5	19.45	05 05	10.35	44 nf
1	1	105	20.0	21.0	20.50	50 50	10.18	36 nf

12:15

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1917phae.proj...702B

Copy of

M C 6671 - Measured with Wedge E 9109.

Series numbered in Black.

12:15

no setting	No.	1st meas.	2nd meas	mean	Resid		Mag.	Dist. from center
11	106	17.35	18.75	18.05	70	70	10.59 e	41 n
11	107	19.50	19.75	19.62	12	13	10.32	31 n
11	108	18.70	19.45	19.08	38	37	10.40	32 n
11	109	18.65	19.10	18.88	23	22	10.43	23 n
11	110	18.15	18.95	18.55	40	40	10.48	15 n
11	111	18.45	19.25	18.85	## 40	40	10.44	19 n f
11	112	20.45	20.95	20.70	25	25	10.15	59 n
11	113	22.60	21.00	21.80	80	80	10.00	72 n
11	114	19.90	21.0	20.45	55	55	10.19	70 n
1	115	18.0	19.0	18.50	50	50	10.50	61 n
11	116	17.35	18.00	17.68	33	32	10.63 e	68 n
1	117	24.5	24.0	24.25	25	25	9.65	77 n
1	118	25.0	25.6	25.30	30	30	9.50	86 n
11	119	18.25	19.5	18.88	63	62	1043	71 n p
1	120	23.0	23.5	23.25	25	25	9.81	91 n p
1	121	19.6	21.0	20.30	70	70	10.23	63 n p
11	122	21.65	21.75	21.70	05	05	10.02	102 n p
11	123	21.00	23.0	22.00	100	100	9.99	73 n p
11	124	17.70	18.50	18.10	40	40	10.56 e	68 n p
1	125	21.5	21.0	21.25	25	25	10.08	79 n p
11	126	19.90	21.0	20.45	55	55	10.19	76 e p
11	127	18.00	19.00	18.50	50	50	10.50	52 e

12:25

no. 127 is last no. of stars numbered in Black

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MC 6671 - Measures with Wedge E 9109

Series of stars numbered in Red

no. settings		No.	1st Mean.	2nd mean	Mean.	Recid.	Mag.	1:40	Dist from center.
1	1	1	30.5	28.7	29.60	90 90	8.96		94 sf
1	1	2	26.5	25.0	25.75	75 75	9.45		96 sf
1	1	3	33.3	32.0	32.65	65 65	8.60		84 sf
1	1	4	35.0	36.4	35.70	70 70	8.24		72 sf
		5	+ Black 14	—	—	—	—	+43° 3218 Two distinct stars.	.
1	1	6	33.5	35.4	34.45	95 95	8.39		73 sf
		7	= Black 12						.
1	1	8	24.5	25.0	24.75	25 25	9.58		69 sf
11	11	9	21.50	22.40	22.20	70 70	9.95		74 sf
1	1	10	36.5	35.5	36.00	50 50	8.20		73 sf
11	11	11	20.40	21.30	20.85	45 45	10.14		68 sf
11	11	12	21.80	23.25	22.52	72 73	9.91		62 sf
		13	= Black 26	—	—	—	—		.
1	1	14	28.3	29.5	28.90	60 60	9.04		45 sf
1	1	15	51.0	50.5	50.75	25 25	no curve		51 s
1	1	16	38.3	39.0	38.65	35 35	7.85		57 s
1	1	17	46.6	45.0	45.30	30 30	no curve.		61 s
11	11	18	27.95	28.05	28.00	00 00	9.14		37 s
11	11	19	21.30	23.00	22.15	85 85	9.96		31 s
11	11	20	37.20	37.00	37.10	10 10	8.05		22 s
1	1	21	28.7	31.5	30.10	140 140	8.90		44 s
		22	= Black 38	—	—	—	—		.
		23	= Black 38	—	—	—	—		.
11	11	24	22.60	22.90	22.75	15 15	9.87		61 s
1	1	25	31.5	31.0	31.25	25 25	8.75		57 s
11	11	26	26.35	27.00	26.68	33 32	9.33		32 s
11	11	27	28.80	29.90	29.35	55 53	8.98	1:50	65 s

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Series of stars numbered in Red.

no. settings	No.	1st meas.	2nd meas.	Mean.	Resid.		Mag.	1:50 Dist from center
1	1	28	28.6	29.0	28.80	20	20	9.05	62 s
1	1	29	50.7	49.4	50.05	65	65	no curve	68 s
"	"	30	32.15	31.80	31.98	17	18	8.65	62 s p
1	1	31	28.0	28.0	28.00	00	00	9.14	57 s p
1	1	32	34.2	34.6	34.40	20	20	8.40	50 s p
"	"	33	36.45	35.90	36.18	27	28	8.18	59 s p
"	"	34	40.40	39.35	39.88	52	53	7.62	58 p
		35	.	.	.			.	.
		36	.	.	.			.	.
1	1	37	25.0	25.5	25.25	25	25	9.51	39 s p
1	1	38	36.4	36.0	36.20	20	20	8.18	71 s p
"	"	39	21.90	21.50	21.70	20	20	10.02	88 s p
"	"	40	23.35	23.00	23.18	17	18	9.81	95 s p
"	"	41	21.25	20.80	21.02	23	22	10.12	79 s p
"	"	42	17.70	20.50	19.12	137	138	10.40	79 s p
"	"	43	21.70	22.75	22.22	52	53	9.95	85 s f
"	"	44	21.10	21.50	21.30	20	20	10.07	83 s f
1	1	45	28.4	28.5	28.45	05	05	9.09	68 f
1	1	46	29.0	28.5	28.75	25	25	9.05	64 f
1	1	47	28.3	27.0	27.65	65	65	9.21	64 f
1	1	48	24.0	24.4	24.20	20	20	9.66	55 f
1	1	49	26.5	27.0	26.75	25	25	9.32	59 f
1	1	50	25.7	25.5	25.60	10	10	9.47	56 s f
"	"	51	31.00	31.25	31.12	12	13	8.76	36 s f
1	1	52	29.4	29.5	29.45	05	05	8.98	34 f
1	"	53	28.5	27.10	27.80	70	70	9.17	25 f
"	"	54	25.80	25.15	25.48	32	33	9.48	24 f
1	1	07 55	30.5	32.4	31.45	95	95	8.73	2:10 21 f

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Series of stars numbered in Red.

no. settings			No.	1st meas	2nd meas	Mean.	Resid.		Mag.	Dist. from center
										2:10
1	1	05	56	37.0	37.5	37.25	25	25	8.03	23 f
11	11		57	27.00	27.00	27.00	00	00	9.29	31 sf
			58	= Blank 22		—	—		—	.
			59	= Blank 24		—	—		—	.
1	1		60	30.5	31.0	30.75	25	25	8.80	34 s
1	11		61	23.5	2245	22.98	52	53	9.84	52 s
			62	= Blank 18		—	—		—	.
1	1	08a	63	31.5	31.6	31.55	05	05	8.71	31 f
11	11	08	64	32.40	32.10	32.25	15	15	8.64	22 f
1	1		65	26.5	27.0	26.75	25	25	9.32	16 f
			66	Too bright.		—	—		—	.
1	1	012	67	30.0	29.4	29.70	30	30	8.95	14 sf
1	1	01	68	43.5	44.0	43.75	25	25	6.92	16 nf
11	11	014	69	23.05	23.75	23.40	35	35	9.78	7 s
11	11	013	70	26.70	26.05	26.38	32	33	9.36	5 s
1	1	010	71	27.4	28.4	27.90	50	50	9.15	3 p
11	11	011	72	29.25	28.30	28.78	47	48	9.05	8 n
1	1	06	73	35.5	36.6	36.05	55	05	8.20	10 n
1	1		74	27.5	27.0	27.25	25	25	9.25	10 sp
1	1		75	45.4	47.5	46.45	105	105	20 curve	15 p
1	1	09	76	29.6	30.0	29.80	20	20	8.94	20 n p
			77	too bright.		—	—		—	.
11	11		78	24.35	24.80	24.58	23	22	9.61	35 sp
			79	= Black 41		—	—		—	.
			80	= Black 38		—	—		—	.
			81	= Black 43		—	—		—	.
11	11		82	20.90	20.75	20.82	08	07	10.14	37 p
1	1		83	20.00	22.0	21.00	100	100	10.12	2:35 — 34 p

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Series of stars numbered in Red

no. settings		No.	1st meas	2nd meas	Mean	Result.	Mag.	2:35 Dist from Center
4	11	84	30.80	31.75	31.28	48 47	8.74	43 p
4	11	85	31.45	33.00	32.22	~~77~~ 78	8.64	45 p
1	11	86	24.4	23.00	23.70	70 70	9.74	52 p
4	11	87	24.60	24.75	24.68	08 07	9.60	54 p
1	1	88	23.3	22.5	22.90	40 40	9.86	55 p
1	1	89	29.2	29.0	29.10	10 10	9.01	61 np
		90	= Black 53	—	—	—		.
1	1	91	27.2	28.0	27.60	40 40	9.21	72 np
1	1	92	30.5	29.4	29.95	55 55	8.92	75 np
4	11	93	30.30	30.75	30.52	22 23	8.84	83 np
4	11	94	25.35	26.25	25.80	45 45	9.45	77 p
4	11	95	21.00	23.25	22.12	112 113	9.97	65 p
		96	= Black 55	—	—	—		.
1	1	97	22.5	23.0	22.75	25 25	9.87	77 np.
1	1	98	29.5	30.0	29.75	25 25	8.94	78 np
1	1	99	26.5	28.0	27.25	75 75	9.25	81 np
11	11	100	39.75	40.20	39.98	23 22	7.60	88 np
1	1	101	34.3	33.0	33.65	65 65	8.50	98 np
4	11	102	21.65	23.90	22.78	113 112	9.87	90 np.
1	1	103	21.5	23.7	22.60	110 110	9.90	86 np.
4	11	104	25.35	27.75	26.55	120 120	9.34	90 np.
		105	= ~~Black~~ 120	—	—	—		.
4	11	106	33.15	33.25	33.20	05 05	8.54	106 np
1	1	107	28.7	28.6	28.65	05 05	9.06	78 f
4	1	108	27.50	28.0	27.75	25 25	9.18	76 f
1	1	109	29.4	29.0	29.20	20 20	9.00	72 f
1	1	110	31.6	31.5	31.55	05 05	8.71	64 f
1	1	111	32.4	32.5	32.45	05 05	8.62	58 f
11	11	112	20.95	23.00	21.98	103 102	9.99	2:55 61 f

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2:55

no Settings		No.	1st meas.	2nd meas	Mean Resid.		mag.	Dist from center
1	1	113	34.7	34.0	34.35	35 35	8.41	58 nf
11	11	114	25.55	25.55	25.55	00 00	9.48	62 nf
1	1	115	27.2	26.0	26.60	60 60	9.34	72 nf
1	1	116	25.4	25.0	25.20	20 20	9.52	65 nf
		117	= Black 83		—	—	—	.
1	11	118	38.0	37.5	37.75	25 25	7.96	55 nf
		119	= Black 81		—	—	—	.
		120	= Black 72		—	—	—	.
11	11	121	21.45	22.00	21.72	27 28	10.02	35 nf
11	11	122	19.50	18.75	19.12	38 37	10.40	34 nf
1	1	123	25.5	25.0	25.25	25 25	9.51	28 nf
11	11	124	21.95	22.75	22.35	40 40	9.93	44 nf
11	11	125	20.10	19.75	19.92	18 17	10.28	42 nf
		126	900 hr.		—	—	—	.
11	11	127	25.25	2350	24.38	87 88	9.63	66 nf
1	1	128	25.0	26.0	25.50	50 50	9.48	73 nf
1	1	129	26.2	27.3	26.75	55 55	9.32	78 nf
1	1	130	24.6	26.0	25.30	70 70	9.50	65 nf
11	11	131	33.80	34.00	33.90	10 10	8.46	65 nf
11	11	132	31.20	32.00	31.60	40 40	9.70	66 nf
11	11	133	31.35	31.55	31.45	10 10	8.73	58 nf
1	1	134	25.5	26.0	25.75	25 25	9.45	61 nf
1	1	135	39.5	39.5	39.50	00 00	7.69	74 nf
1	1	136	24.0	25.6	24.80	80 80	9.57	82 nf
1	1	137	35.7	35.4	35.55	15 15	8.26	72 nf
1	1	138	30.0	32.0	31.00	100 100	8.77	81 nf
11	11	139	29.50	30.00	29.75	25 25	8.94	48 nf
11	11	140	23.90	24.00	23.95	05 05	9.70	52 nf

3:15

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MC6671 — Copy of Measured with Wedge E 9109

Series numbered in Red

no. settings	No.	1st meas.	2nd meas.	Mean	Resid.		Mag.	3:15 Dist from center
" "	141	20.75	20.25	20.50	25	25	10.18	62 n p
" "	142	20.30	20.25	20.28	02	03	10.23	61 n p
	143 = Black 121	—	—	—			—	AJC 84:94 Omitted from Miss Cannon's cat. danger of confusing with 121 (Cam 6671)
" "	144	21.25	20.65	20.95	30	30	10.12	53 n p.
" "	145	20.85	20.75	20.80	05	05	10.14	41 n p.
	146 = Black 49	—	—	—			—	.
" "	147	19.85	20.55	20.20	35	35	10.24	38 n p.
" "	148	20.20	20.00	20.10	10	10	10.25	40 n p.
" 1	149	19.66	20.4	20.02	37	38	10.26	38 n p.
" "	150	21.25	22.25	21.75	50	50	10.01	27 p
1 "	151	37.0	36.20	36.60	40	40	8.13	85 n f
1 1	152	29.0	31.0	30.00	100	100	8.91	76 n f
1 1	153	39.5	39.0	39.25	25	25	7.73	95 n f
1 1	154	25.0	27.0	26.00	100	100	9.43	90 n f
1 1	155	46.0	46.0	46.00	00	00	no curve.	94 n f
1 1	156	31.0	30.6	30.80	20	20	8.79	85 n f
1 1	157	27.7	28.4	28.05	35	35	9.14	83 n f
" "	158	34.40	34.75	34.58	18	17	8.37	99 n f.
	159 = Black 84	—	—	—			—	.
" "	160	23.25	24.00	23.62	37	38	9.76	87 n f.
" 1	161	22.80	25.0	23.90	110	110	9.70	95 n f.
	162 = Black 87	—	—	—			—	.
	163 = " 97	—	—	—			—	.
	164 = " 122	—	—	—			—	.
1 1	165	34.0	33.5	33.75	25	26	8.48	90 n p
" "	166	22.75	22.70	22.72	03	02	9.88	3:20 83 n p.

No. 166 is last number of stars numbered in Red

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