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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum Plates, Southern Draper Catalogue #61

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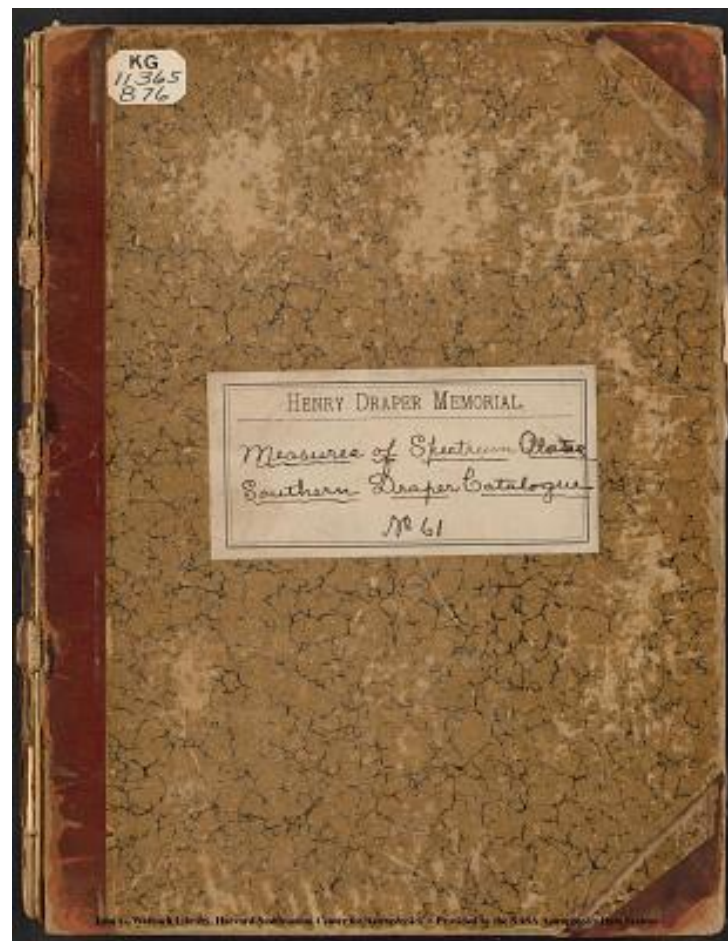
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[[front cover]]

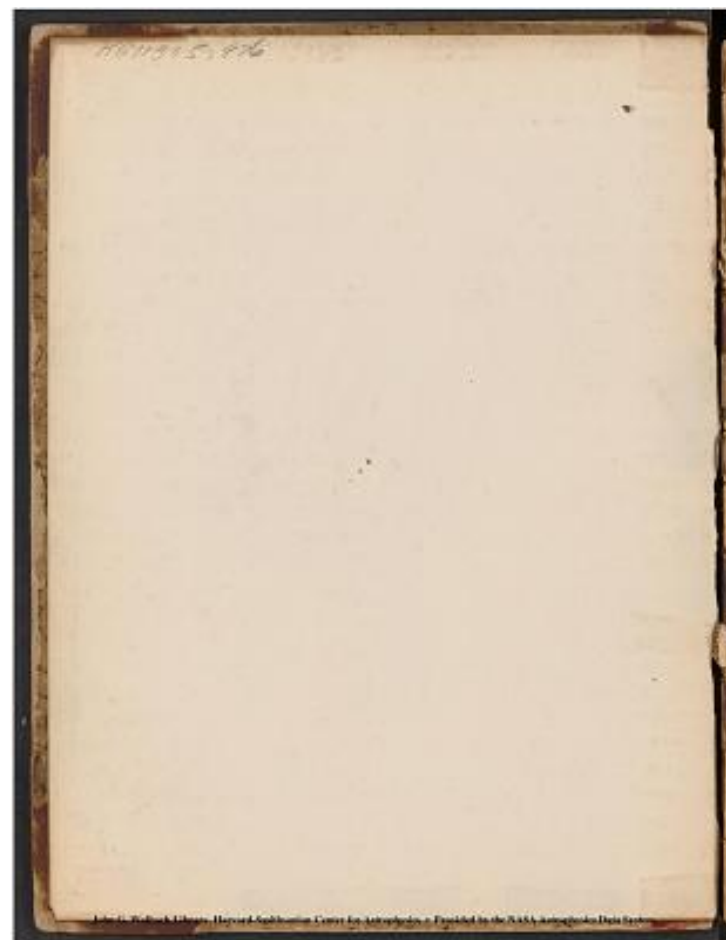
KG
11365
876

HENRY DRAPER MEMORIAL
Measure of Spectrum Plate
Southern Draper Catalogue
No 61



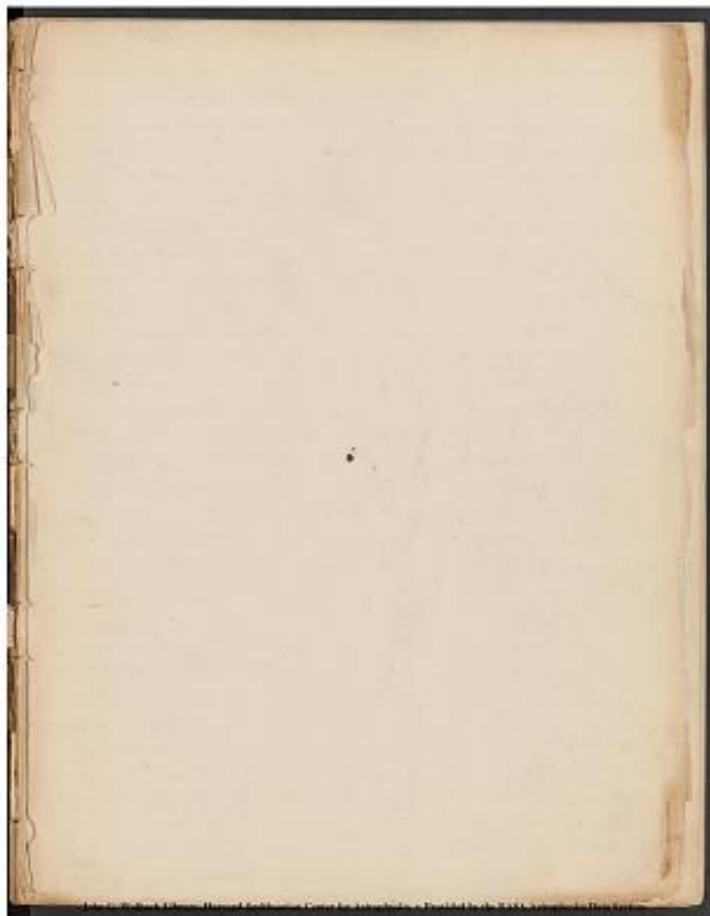
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Plates, Southern Draper Catalogue #61
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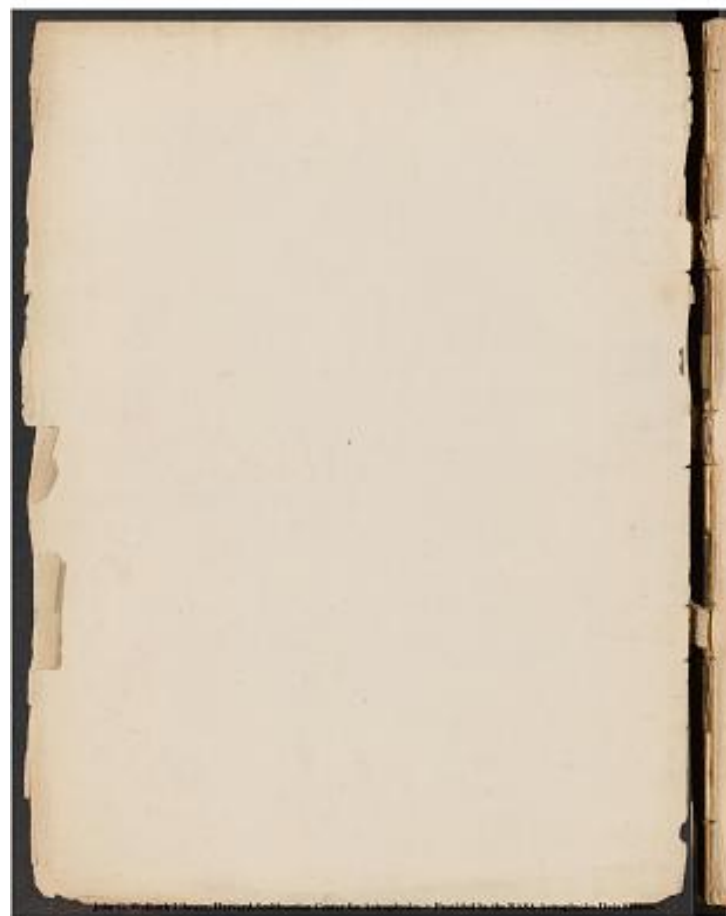
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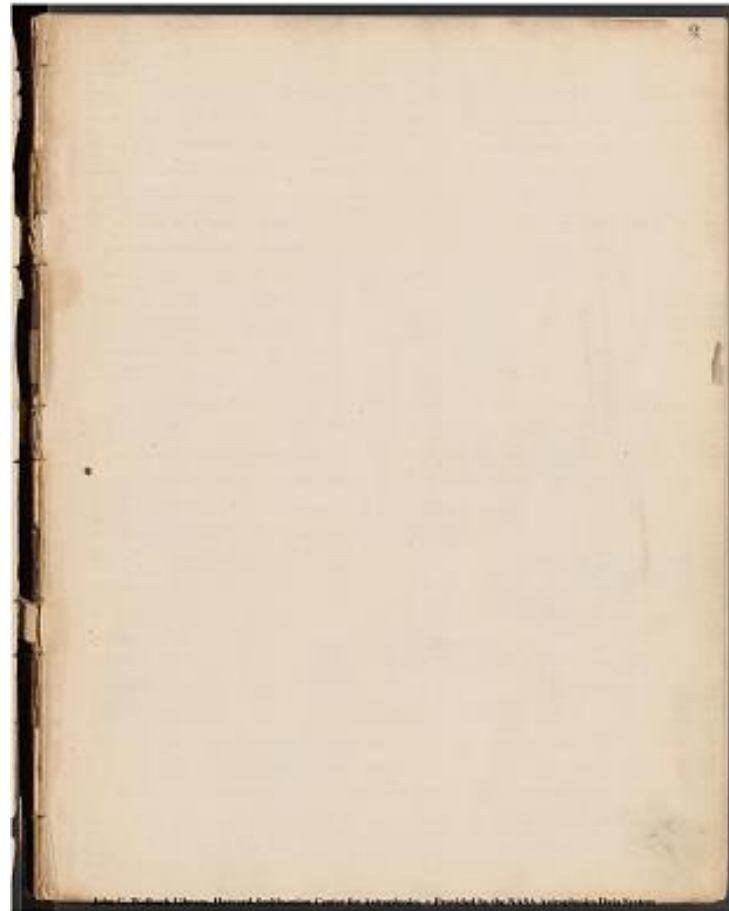
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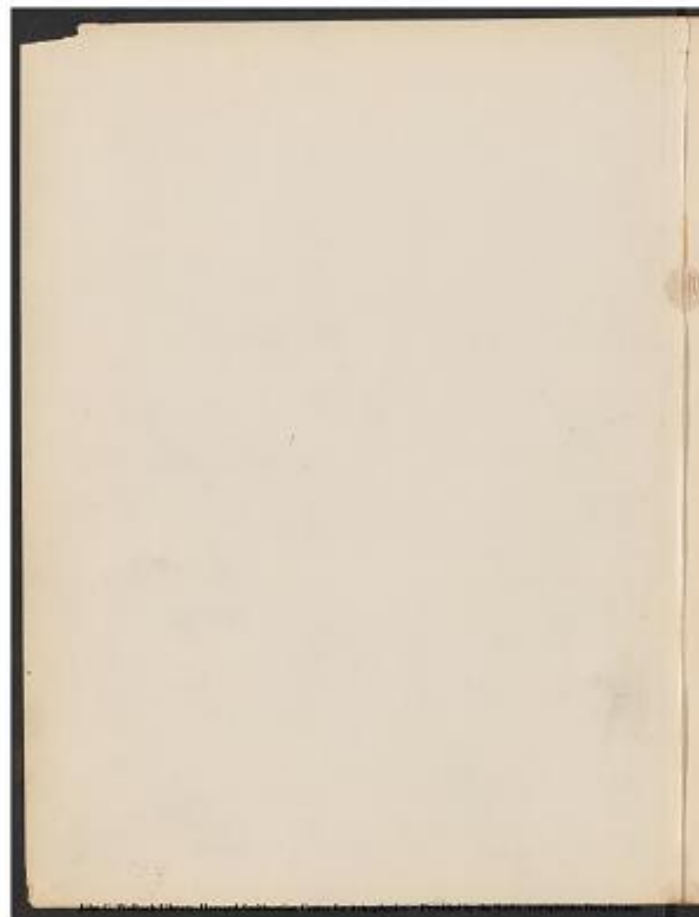
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4957	196				

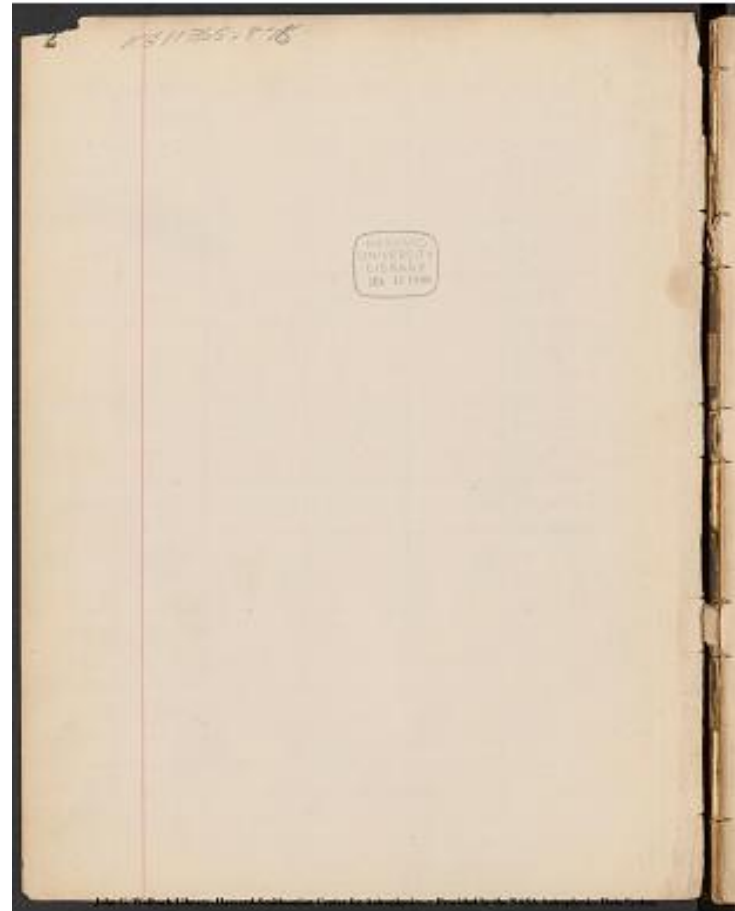
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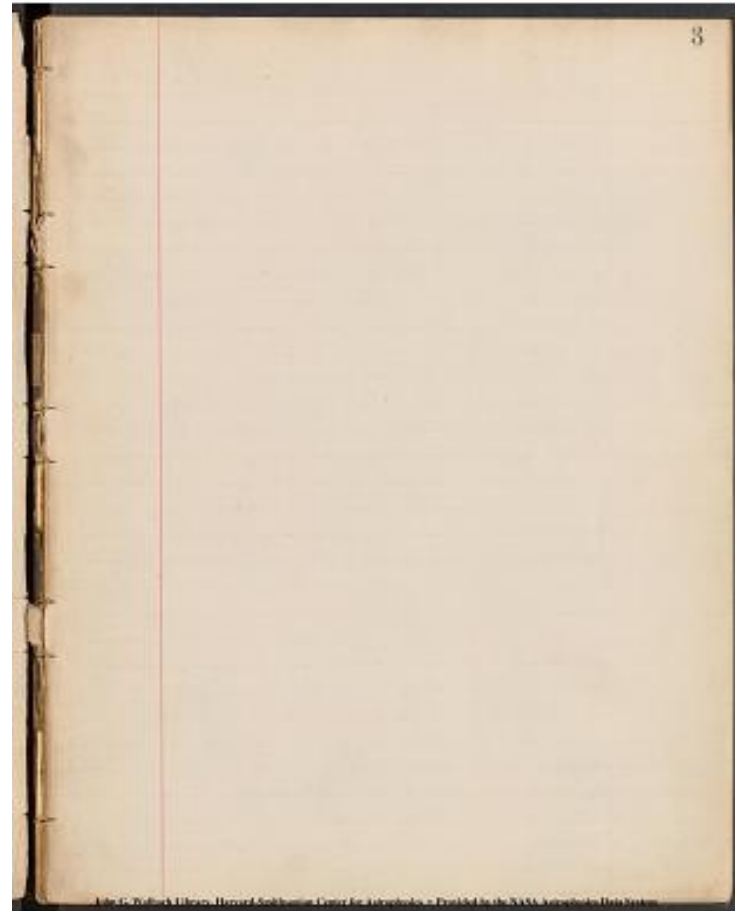
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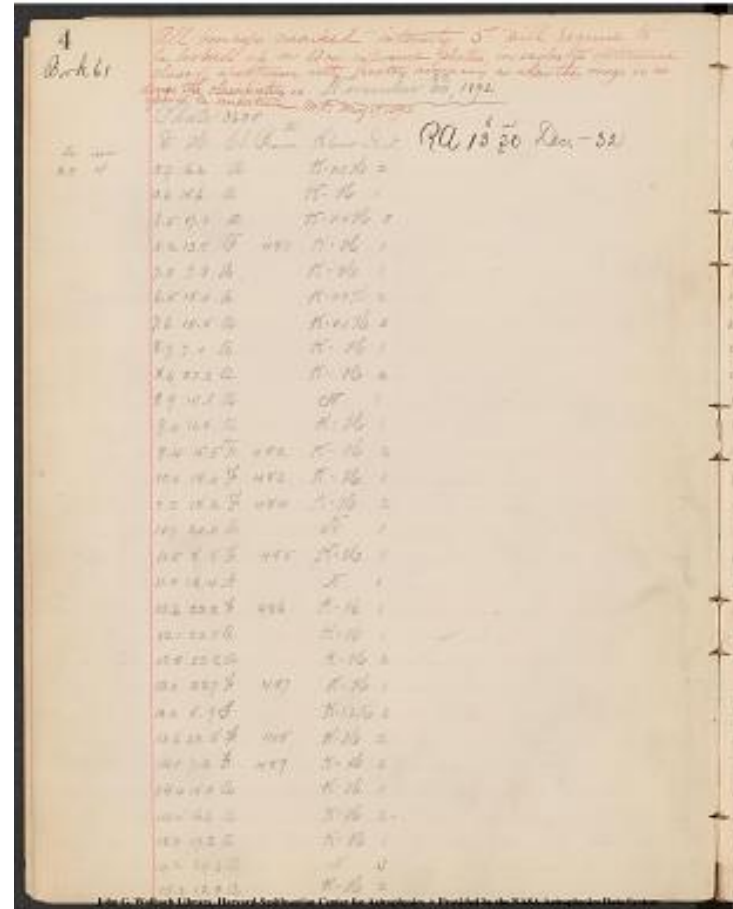
[[preprinted]] 4 [[/preprinted]]
Book 61

All images marked "intensity 5" will require to be looked up on 10m.
exposure plates, in order to determine class of spectrum with greater
accuracy as when the image is so dense the classification is apt to be
uncertain. M.F. May 17, 1893

November 22 23, 1892
Plate 3635
23^h 4^m
RA 13^h 30^m Dec. -32

[6 column table]					
V	H	Cl.	No.	Rem.	K line Int.
3.7	6.2	A			K=0.5H 2
3.6	15.6	A			K=H 1
3.5	17.3	A			K=0.5H 3
5.2	13.8	F	481		K=H 1
7.0	9.3	H			K=H 1
6.5	15.0	A			K=0.2H 2
7.6	15.5	A			K=0.1H 3
8.7	7.0	A			K=H 1
8.6	23.2	A			K=H 2
8.9	15.5	A			N 1
9.0	16.8	A			K=H 1
9.4	15.5	H	482		K=H 2
10.0	18.0	F	483		K=H 1
9.3	18.2	F	484		K=H 2
10.7	20.0	A			N 1
11.5	8.8	F	485		K=H 1
11.0	12.4	A			N 1
12.6	23.2	F	486		K=H 1
12.1	23.9	A			K=H 1
12.8	23.2	A			K=H 2
13.0	23.7	F	487		K=H 1
13.2	8.9	F			K=1.2H 3
13.6	23.8	F	488		K=H 2
14.0	7.2	F	489		K=H 2
14.4	15.0	A			K=H 1
14.5	16.6	A			K=H 2
15.0	17.2	A			K=H 1
14.2	24.3	A			N 3
15.2	12.9	A			K=H 2

[[/table]]



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[[preprinted]]5[[/preprinted]]
[[table]]
1900 R.A. | 1900 Dec | No. A.G.C. | 1900 R.A. | 1900 Dec. | Magn. | No.
C.D.M. | R.A. 1875 | Dec. | Magn. |

13^h 6.2^m 18355 13 24.0 26 52 7 17945 13^h 27.0 26.1 18431 13 27.4 26 5 7.1 13 31.0 25.9 18511 13 31.3 26 0 7.2 18512 13 31.3 25 59 6.2 13 23.8 26.9 18355 13 24.0 26 52 7 13 13.0 27.9 18104 13 12.9 27 48 7.0 13 26.0 27.7 18398 13 26.0 27 36 6.7 13 27.1 28.2 18423 13 27.0 28 11 5.9 13 7.5 8.8 17968 17967 13 44.1 28.6 18792 13 44.4 28 35 6.5 13 26.8 28.9 18422 13 27.0 28 47 8.5 13 30.0 28.9 28° 10 159 28° 44 8.0 13 26.9 29.1 18420 13 27.0 29 3 6.8 13 32.9 29.4 18546 13 32.8 29 20 7.0 13 33.1 29.1 18554 13 33.1 29 3 6.3 13 37.5 29.7 18632 13 37.4 29 41 7.3 13 10.9 11.1 18063 13 11.4 30 4 7.4 13 19.8 29.9 18256 13 19.6 29 51 8.5 13 44.4 30.6 18795 13 44.6 30 35 7.4 13 46.3 30.3 18843 13 46.6 30 18 8 13 45.0 30.7 18 806 799 13 45.9 30.8 18832 13 45.9 30 50 7.4 13 10.9 11.1 18060 13 11.3 30 59 5.7 13 46.2 31.1 18839 13 46.3 31 8 6.7 13 6.9 7.1 17962 13 7.3 31 20 6.9 13 26.0 31.6 18395 13 25.9 31 38 7.8 13 29.9 31.7 18480 13 29.5 31 42 6.9 13 31.0 31.9 18504 13 31.1 31 54 8 13 47.3 31.5 18854 13 47.4 31 27 8 13 47.3 31.5 18855 13 47.4 31 27 5.5 13 20.3 32.1 18272 13 20.5 32 2 7.0

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November ~~23~~ 22, 1892
Plate 3635

[[table]]					
V	H	Cl	Rem. No	K line	Int
16.5	11.7	Ma		N	1
16.8	13.7	A		K=H	1
16.7	16.4	H		K=H	2
16.3	18.1	A		N	2
16.2	21.0	F	490	K=H	3
16.2	23.6	A		N	3
17.4	5.8	E		K-H	1
18.0	13.1	H		K=H	1
17.3	19.3	H		K=H	1
17.8	21.3	A		N	1
18.0	22.5	A		K=H	1
18.5	8.4	A		N	2
18.7	12.4	A		N	1
19.0	17.2	F		K=H	2
19.0	19.0	E		K=H	1
18.1	19.6	F	491	K=H	2
19.0	23.5	Mb.		K=H	3
19.1	5.8	A		K=H	1
19.8	7.3	A		N	1
19.6	7.5	A		K=H	1
19.8	24.2	A		K=H	1
20.5	7.0	H		N	1
20.2	12.9	H		N	1
20.2	17.5	A		N	2
20.2	17.7	E		K=H	1
20.8	19.9	A		N	1
21.0	24.2	K		K=H	2
21.3	14.3	F	492	K=H	1

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6

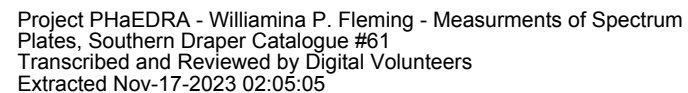
November 22, 1892

Plate 3635

16.5	11.7	Ma		N	1
16.8	13.7	A		K=H	1
16.7	16.4	H		K=H	2
16.3	18.1	A		N	2
16.2	21.0	F	490	K=H	3
16.2	23.6	A		N	3
17.4	5.8	E		K-H	1
18.0	13.1	H		K=H	1
17.3	19.3	H		K=H	1
17.8	21.3	A		N	1
18.0	22.5	A		K=H	1
18.5	8.4	A		N	2
18.7	12.4	A		N	1
19.0	17.2	F		K=H	2
19.0	19.0	E		K=H	1
18.1	19.6	F	491	K=H	2
19.0	23.5	Mb.		K=H	3
19.1	5.8	A		K=H	1
19.8	7.3	A		N	1
19.6	7.5	A		K=H	1
19.8	24.2	A		K=H	1
20.5	7.0	H		N	1
20.2	12.9	H		N	1
20.2	17.5	A		N	2
20.2	17.7	E		K=H	1
20.8	19.9	A		N	1
21.0	24.2	K		K=H	2
21.3	14.3	F	492	K=H	1

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[table]	R.A.	1900	Dec.	1900	No.A.G.C	1900 R.A	1900 Dec	Magn	
	C.D.M.		R.A.	1875	Dec.	1875	Magn.		
	---	---	---	---	---	---	---		
	13^	[h]	17.8^	[m]	-32.7	[symbol - degree symbol]]	18210	13^	[h]
	17.5^	[m]	-32	[symbol - degree symbol -	degree symbol]]	40	[6.8]		
	13	22.3	-32.9			-32^	9376	13^	[h]
						21.0^	[m]	-32^	38
									8.0]
	13	28.9	-32.8	18469	13	29.0	-32	48	[6.8]
	13	33.0	-32.6	18555	13	33.1	-32	36	7.0]
	13	40.0	-32.6	18696	13	40.0	-32	33	4.5]
	13	45.9	-32.6	18833	13	46.0	-32	30	5]
	13	45.9	-32.6	18834	13	46.0	-32	30	6.8]
	13	3.2	-33.0	17885	13	3.5	-32	58	7.2]
	13	[strikethrough]]	21	2	[strikethrough]]	20.9	-33.6	18282	13
	29	7.1							20.8
	13	36.0	-33.2	18609	13	36.0	-33	6	[6.9]
	13	40.9	-33.3	18712	13	40.7	-33	17	[8.5]
	13	4	[strikethrough]]	4.0	[strikethrough]]	3.6	-33.4	18777	13
	20	8]							43.6
	13	9.5	-33.7	[strikethrough]]	18250	[strikethrough]]	[strikethrough]]	[strikethrough]]	13
	[strikethrough]]	[strikethrough]]	[strikethrough]]	19.2	[strikethrough]]	[strikethrough]]	[strikethrough]]	[strikethrough]]	-
	33	46	[strikethrough]]	[strikethrough]]	8	[strikethrough]]	-33		
	89	14	13	[8.3	-33	29	7.3]		
	13	19.5	-33.8	18250	13	19.2	-33	46	[8]
	13	31.2	-33.9	18505	13	31.1	-33	58	[6.7]
	13	35.2	-34.0	18591	13	35.3	-33	57	7.3]
	13	36.4	-33.6	18615	13	36.6	-33	29	7.5]
	13	35.2	34.0	18616	13	36.6	-33	29	7.5]
	13	43.6	-33.9	18779	13	43.6	-33	58	4.6]
	13	3.3	-33.9	17884	13	3.5	-33	49	[8.5]
	13	6.8	-34.3			-34	8720	13	5.6
								-34	4
									7.5]
	13	8.0	-34.1	17993	13	8.2	-34	9	[8]
	13	47.8	-34.3	18886	13	47.8	-34	11	[8.5]
	13	5.9	-34.7	17937	13	5.9	-34	36	[9.5]
	13	5.9	-34.7	17928	13	5.9	-34	36	[7]
	13	20.1	-34.7	18267	13	20.3	-34	33	7.3]
	13	31.9	-34.6	18524	13	31.8	-34	33	7.0]
	13	32.0	-34.6	18531	13	32.0	-34	34	7.2]
	13	37.8	-34.8	18634	13	37.4	-34	48	[8]
	13	48.4	-34.8	18871	13	48.1	-34	50	[6.7]
	13	23.8	-35.1	18348	13	23.7	-35	3	7.8]
	[table]								



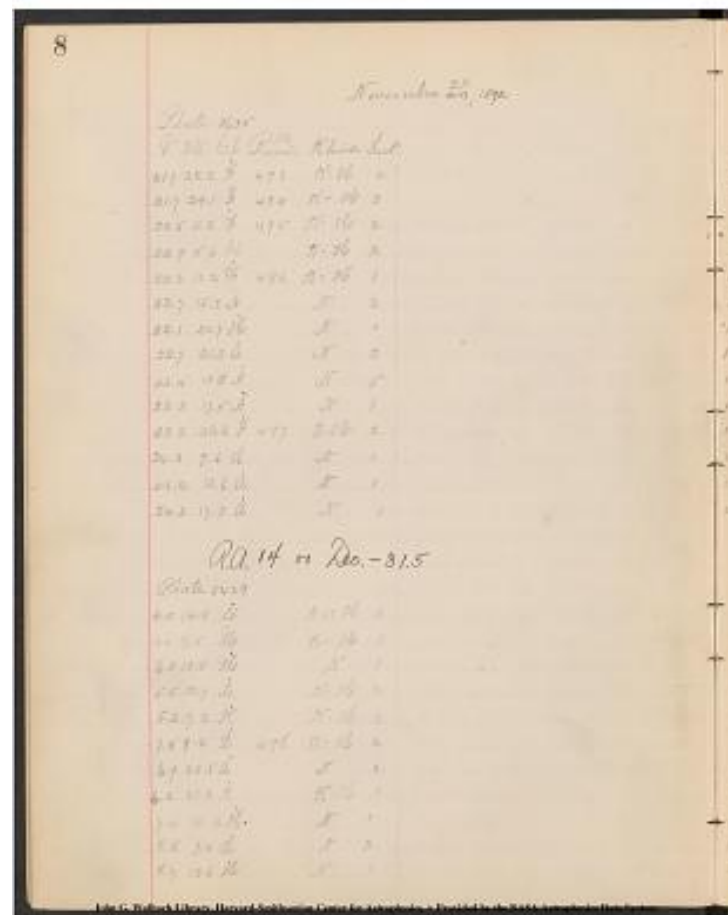
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November ~~20~~ 22, 1892
Plate 3635

[[table]]						
V.	H.	Cl.	No.	Rem.	K line	Int.
21.7	22.2	F	493		K = H	2
21.7	24.1	F	494		K = H	3
22.8	5.8	F	495		K = H	2
22.9	8.6	H			K = H	2
22.3	11.2	F	496		K = H	1
22.7	18.3	A		N		2
22.1	20.7	H		N		1
22.7	21.3	a		N		3
23.4	10.8	A		N		5
23.3	17.5	A		N		1
23.2	28.2	F	497		K = H	2
24.3	9.6	a		N		1
24.2	12.6	a		N		1
24.3	17.3	a		N		1
[[/table]]						

R. A. 14 00 Dec. -31.5
Plate 5429

[[table]]						
V.	H.	Cl.	No.	Rem.	K line	Int.
4.0	14.5	L		K = 1.2H		3
4.0	17.5	H		K = H		1
6.0	10.0	H		N		1
5.5	12.7	L		K = H		2
5.2	19.2	K		K = H		2
7.8	9.2	L	498		K = H	2
6.9	20.5	a		N		2
6.2	21.8	K		K = H		3
7.4	21.3	H		N		1
8.8	7.3	a		N		3
8.7	13.6	H		N		1
[[/table]]						



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R.A. 1900 | Dec. 1900 | A.G.C. | R.A. | Dec | W Magn | No. C.D.M. | R.A.
Dec. | Magn. |

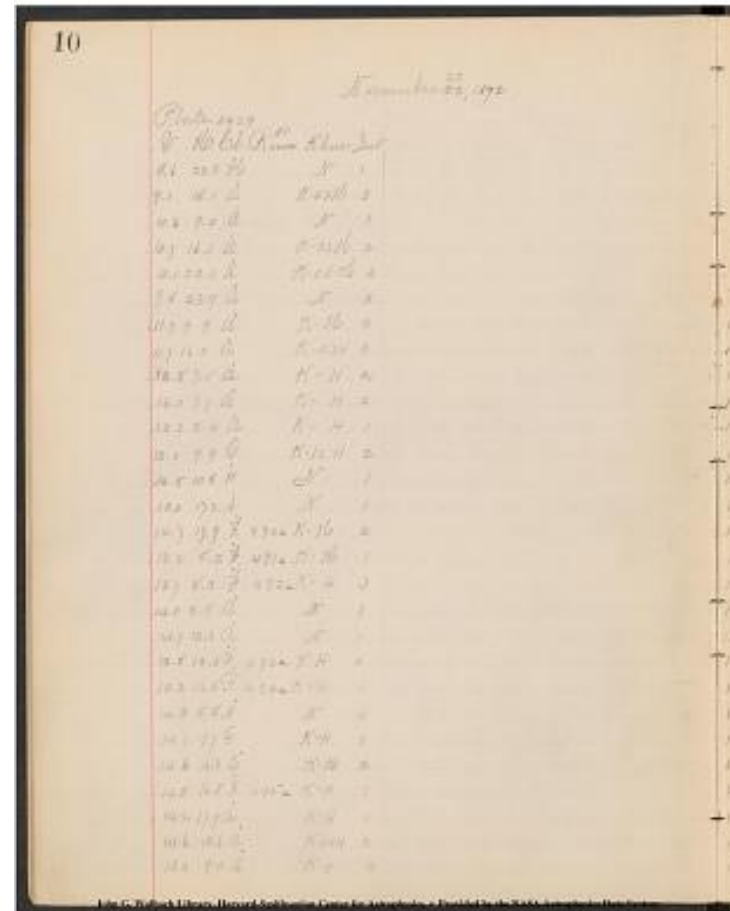
13 ^h 43.0 ^m 35.2 ^s	18760	13 ^h 43.1 ^m 35.2 ^s	12'	10				
13 ^h 43.0 ^m 35.2 ^s	18761	13 ^h 43.1 ^m 35.2 ^s	12'	10				
13 47.7-35.2	18863	13 47.7-35 11	6.0					
13 1.7	1.7	1.7	35.4					
34	7.1							
13 9.2-35.9	18018	13 9.5-35 50	6.7					
13 16.0-35.7	18181	13 16.2-35 35	7.3					
13 34.0-35.8	---	not in A.G.C.						
13 39.9-35.5	18690	13 39.6-35 26	7					
13 41.5-35.8	18718	13 41.1-35 45	5.8					
13 15.1-36.2	18149	13 15.0-36 11	3.0					
13 32.0-36.2	18522	13 31.7-36.4	8.2					
13 45.9-35.9	18826	13 45.8-35 57	6.7					
13 12.1-36.6	18081 18082	13 12.0 12.0	-36 29 -36 30	8.2 9.5				
13 19.9-36.7	18253	13 19.3-36 31	8					
13 31.8-36.7	18507	13 31.2-36 36	8.2					
14 0.7-26.2	19128	14 0.7-26 12	3.6					
14 7.4-26.2	19269	14 7.5-26 8	6.8					
13 50.9-27.2	18937	13 50.8-27 8	7.0					
13 56.7-26.9	190468	13 56.7-26 57	6.0					
14 7.2-26.9	19253	14 7.0-26 47	5.5					
13 48.3-28.1	18890	13 48.6-28 5	6.5					
14 14.2-27.6	19383	14 14.3-27 35	8					
14 17.2-27.4	19462	14 17.6-27 22	8.2					
14 15.9-27.9	19434	14 16.2-27 51	7.2					
13 45.1-28.6	18792	13 44.4-28 35	6.5					
13 59.1-28.5	19083	13 58.7-28 35	8					
13 58.7-28 35	8	28 104	19	13 57.3	-28 28	7.4		

[[/table]]

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November 22 ~~23~~, 1892
Plate 5429

V	H	Cl	Rem. No	K line	Int
8.6	22.8	H	N	1	
9.1	18.1	A	K = 0.2 H	3	
10.6	9.0	A	N	1	
10.7	16.1	A	K = 0.3 H	2	
10.1	22.0	A	K = 0.5 H	2	
9.8	23.9	A	N	3	
11.7	9.9	A	K = H	2	
11.7	16.0	A	K = 0.3 H	3	
12.8	7.5	A	K = H	2	
13.0	7.7	A	K = H	2	
12.2	8.4	A	K = H	1	
13.0	9.9	G	K = 1.2 H	2	
12.5	10.8	H	N	1	
13.0	17.2	A	N	1	
12.7	17.9	F	490a	K = H	2
13.2	8.2	F	491a	K = H	1
13.7	8.3	F	492a	K = H	3
14.0	8.8	A	N	1	
13.7	12.3	A	N	1	
13.8	13.0	F	493a	K = H	2
13.3	14.8	F	494a	K = H	1
14.3	8.8	A	N	4	
14.7	9.7	G	K = H	1	
14.6	16.3	L	K = H	2	
14.8	16.5	F	495a	K = H	1
14.2	17.9	A	K = H	1	
14.6	18.6	A	K = 0.4 H	2	
15.4	9.4	A	K = H	2	



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[[table]]
 R.A.
1900	Dec. 1900	A.G.C.	R.A.	Dec.	Magn	No.C.D.M.	R.A.	Dec.	Magn.
14^h[[h]]19.6^m[[m]]-28.5	19516	14^h[[h]] 19.7^m[[m]]-28° 27^m	7.0						
14 9.1	-28.9	19299	14 9.2	-28 49	0.4				
13 48.2	-29.7	ZC. 2872	Not in A.G.C.		-29 10668	13 46.8	-29.24	7.9	
14 4.7	-29.6	1920	~~[[strikethrough]]~~ 6 ~~[[strikethrough]]~~ 5	14 4.5	-29 37	7.2			
14 18.1	-29.3	19473	14 18.1	-29 13	7				
14 22.5	-29.2	19577	14 22.4	-29 3	4.8				
13 49.9	-30.1	18921	13 50.1	-30 5	7.1				
14 4.5	-30.2	19200	14 4.4	-30 9	6.8				
13 44.4	-30.7	18795	13 44.6	-30 35	7.4				
13 44.9	-30.8	18799	13 44.9	-30 43	7				
13 46.4	-30.4	18843	13 46.6	-30 18	8				
13 50.0	-30.9	18918	13 50.0	-30 47	6.9				
13 52.1	-30.4	18963	13 52.1	-30 28	8				
14 7.2	-30.8	G.C. 14^h[[h]]375	Not in A.G.C.		-30° 11251	14 5.7	-30 39	8.0	
14 9.1	-30.6	19292	14 9.8	-30	35	7.2			
13 45.9	-30.9	18832	13 45.9	-30	50	7.4			
13 46.1	-31.3	18839	13 46.3	-31	8	6.7			
13 47.1	-31.3	Z.C. 13^h[[h]] 2816			-31 10726	~~[[strikethrough]]~~ 14			
~~[[strikethrough]]~~ 13 46.0	-31 6	8.6							
13 55.9	-31.1	19032	13 55.6	-31	8	8.2			
13 57.3	-31.3	19054	13 57.2	-31	12	6.5			
14 1.4	-30.9	19145	14 1.3	-30	55	8.5			
		18854	13	47.4	-31	27	8	10727	13 46.0
13 47.1	-31.5	18855	13 47.4	-31 27	5.5	-31 10729	13 46.0	-31 18	5.2
	18902	13	49.5	-31 36	7.5				
 13 49.8|-31.7|18903|13 49.5|-31|36|9| | | | | |
 14 5.3|-31.7|192|~~[[strikethrough]]~~ 26
~~[[strikethrough]]~~ 12|14|~~[[strikethrough]]~~ 5.7 ~~[[strikethrough]]~~ 5.1|-31
~~[[strikethrough]]~~ 42 ~~[[strikethrough]]~~ 36|~~[[strikethrough]]~~ 7.5
~~[[strikethrough]]~~ 6.9| | | | | | | | | | |
 14 6.0|-31.8|19226|14 5.7|-31 42|7.5| | | | | |
 14 9.2|-31.4|19291|14 8.9|-31 19|8.5| | | | | |
 14 11.1|-31.7|19316|14 10.5|-31 35|7.5| | | | | |
 13 48.7|-31.9|18886|13 48.5|-31 58|7.2| | | | | |
 [[/table]]

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November ~~23~~ 22, 1892
Plate 5429

[[table]]					
V	H	Cl	No. Rem.	K line	Int
15.9	14.0	A		K=H	1
16.6	5.8	F	496a	K=H	3
16.4	8.3	A		N	4
16.5	15.2	H		K=H	1
16.9	18.5	a		K=H	2
16.9	19.4	a		K=H	2
16.8	21.9	H		N	1
17.6	11.6	F	497a	K=H	1
17.6	17.2	A		N	1
17.5	17.3	A		N	1
17.2	22.8	F	495a	K=H	1
18.2	7.3	A		N	1
18.1	13.6	A		N	1
19.3	7.4	ML		K=H	3
19.8	9.2	A		K=H	1
19.6	9.6	F	499	K=H	2
19.5	13.1	F	500	K=H	1
19.9	20.2	A		N	1
21.0	9.3	I		N	2
20.2	14.5	H		N	1
20.3	15.0	A		N	2
20.2	15.6	A		N	1
20.1	20.9	A		N	3
21.9	7.3	F	501	K=H	2
21.7	9.2	F	502	K=H	3
22.0	12.0	A		N	1
21.9	13.7	F	503	K=H	1
20.8	13.0	A		N	1
[[/table]]					

12	
	November 22, 1892
	Plate 5429
	15.9 14.0 A K=H 1
	16.6 5.8 F 496a K=H 3
	16.4 8.3 A N 4
	16.5 15.2 H K=H 1
	16.9 18.5 a K=H 2
	16.9 19.4 a K=H 2
	16.8 21.9 H N 1
	17.6 11.6 F 497a K=H 1
	17.6 17.2 A N 1
	17.5 17.3 A N 1
	17.2 22.8 F 495a K=H 1
	18.2 7.3 A N 1
	18.1 13.6 A N 1
	19.3 7.4 ML K=H 3
	19.8 9.2 A K=H 1
	19.6 9.6 F 499 K=H 2
	19.5 13.1 F 500 K=H 1
	19.9 20.2 A N 1
	21.0 9.3 I N 2
	20.2 14.5 H N 1
	20.3 15.0 A N 2
	20.2 15.6 A N 1
	20.1 20.9 A N 3
	21.9 7.3 F 501 K=H 2
	21.7 9.2 F 502 K=H 3
	22.0 12.0 A N 1
	21.9 13.7 F 503 K=H 1
	20.8 13.0 A N 1

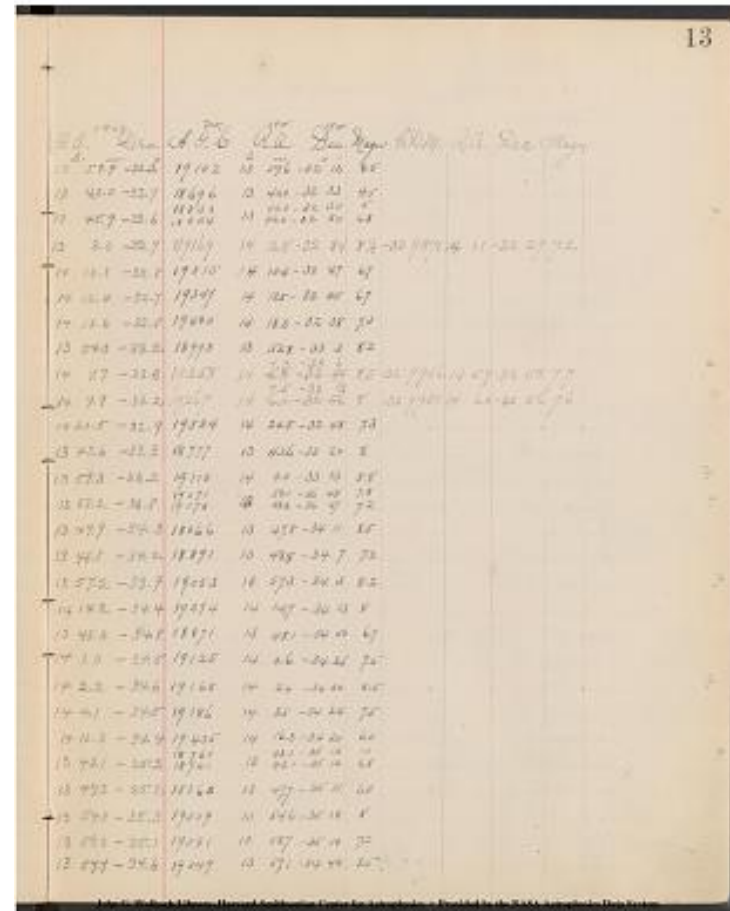
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]

1900 R.A. | 1900 Dec. | No. A.G.C. | 1900 R.A. | 1900 Dec. | Magn. |
C.D.M. | R.A. | Dec. | Magn.

13 ^h 59.9 ^m 59.9 ^s 13 ^h 59.9 ^m -32.2 19102 13 ^h 59.6 ^m 59.6 ^s -32° 12' 8.5						
13 40.0 -32.7 18696 13 40.0 -32 33 4.5						
13 45.9 -32.6 18833 13 46.0 -32 30 5						
13 45.9 -32.6 18834 13 46.0 -32 30 6.8						
13 3.0 -32.7 19169 14 2.5 -32 34 8 1/4 -32 9871 14 1.1 -32						
27 7.2						
14 10.3 -32.8 19315 14 10.4 -32 47 6.7						
14 12.4 -32.7 19347 14 12.5 -32 45 6.7						
14 18.6 -32.8 19480 14 18.3 -32 38 7.0						
13 54.0 -33.2 18993 13 53.8 -33 3 8.2						
14 7.7 33.3 19258 14 7.3 -33 6 8.5 -32 9946 14 5.9 -32 58						
7.7						
14 7.9 -33.2 19267 14 7.5 -33 3 8 -32 9951 14 6.0 -32 56 7.6						
14 20.5 -32.9 19534 14 20.5 -32 48 7.3						
13 43.6 -33.3 18777 13 43.6 -33 20 8						
13 59.3 -33.2 19110 14 0.0 -33 13 8.8						
13 58.2 -36.8 19071 13 58.1 -36 48 7.8						
13 58.2 -36.8 19073 13 58.2 -36 47 7.2						
13 47.9 -34.3 18866 13 47.8 -34 11 8.5						
13 48.8 -34.2 18891 13 48.8 -34 7 7.2						
13 57.2 -33.9 19053 13 57.3 -34 3 8.2						
14 14.2 -34.4 19394 13 14.7 -34 13 8						
13 48.3 -34.8 18871 13 48.1 -34 50 6.7						
14 1.0 -34.5 19125 14 0.6 -34 25 7.5						
14 2.2 -34.6 19168 14 2.4 -34 30 8.5						
14 4.1 -34.5 19186 14 3.5 -34 24 7.5						
14 16.3 -34.4 18760 13 43.1 -35 12 10						
14 16.3 -34.4 18761 13 43.1 -35 12 6.8						
13 47.3 -35.2 18863 13 47.7 -35 11 6.0						
13 54.8 -35.3 19009 13 54.6 -35 18 8						
13 59.0 -35.1 19081 13 58.7 -35 10 7.2						
13 57.7 -34.6 19049 13 57.1 -34 42 8.5						

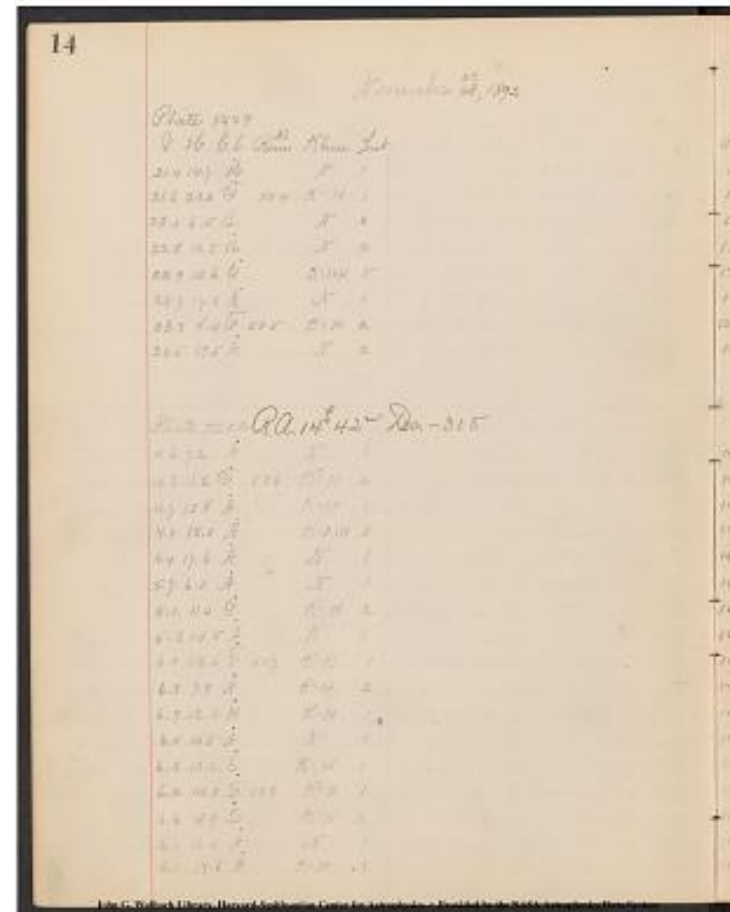
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14
November ~~23~~ 22, 1892
Plate 5429

[[table]]						
V	H	Cl.	No.	Rem.	K line	Int.
21.4	14.7	H			N	1
21.6	23.0	F	504		K=H	1
23.0	6.5	A			N	3
22.8	12.8	A			N	2
22.9	14.6	G			K=1.2H	5
23.7	19.3	A			N	1
23.3	6.4	F	505		K=H	2
24.5	19.5	A			N	2
[[/table]]						
Plate 5202 R.A. 14 ^h 42 ^m Dec. -31.5						
[[table]]						
V	H	Cl.	No.	Rem.	K line	Int.
4.6	7.2	A			N	1
4.3	11.2	F	506		K=H	2
4.7	13.8	A			K=H	1
4.1	15.0	A			K=0.1H	3
4.4	19.6	A			N	1
5.9	6.0	A			N	1
5.1	11.4	G			K=H	2
5.3	14.5	A			N	1
6.0	23.5	F	507		K=H	1
6.3	7.9	A			K=H	2
6.9	12.3	H			K=H	1
6.0	14.5	A			N	1
6.3	13.0	E			K=H	1
6.2	14.8	F	508		K=H	1
6.6	15.9	L			K=H	3
6.1	16.4	A			N	1
6.1	19.6	A			K=H	3
[[/table]]						



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[[table]]

1900 RA | 1900 Dec | No. A.G.C. | 1900 RA | 1900 Dec | Magn. | No.
C.D.M. | RA | Dec | Magn.14^h[[h]] 56.2^m[[m]] | -27.8° | 20376 | 14^h[[h]] 56.2 | -27° 40' | 6.2 | | | |14 57.6 | -27.6 | 20418^h[[20417]] | 14 57.6^h[[57.6]] | -27 27^m[[27 27]] |
8.2^m[[8.2]]

14 36.1 | -28.0 | | | | -27 10015 | 14 36.8 | -27 49 | 7.9

14 45.0 | -28.0 | 20110 | 14 45.0 | -27 54 | 7.8 | | | |

14 47.8 | -28.0 | 20163 | 14 47.9 | -28 0 | 7.0 | | | |

14 48.2 | -27.9 | 20181 | 14 48.4 | -27 56 | 6.9 | | | |

14 48.4 | -27.9 | | | | -27 10114 | 14 47.2 | -27 46 | 8.8

14 58.1 | -27.8 | 20426 | 14 58.1 | -27 40 | 7.5 | | | |

14 58.7 | -28.1 | 20441 | 14 58.6 | -27 54 | 7.5 B | | | |

15 3.3 | -28.2 | 20538 | 15 3.1 | -27 59 | 8 | -27 10236 | ~~[[strikethrough]]~~14 ~~[[strikethrough]]~~ 15 1.6 | -27 52 | 7.3

14 31.6 | -28.4 | 19794 | 14 31.2 | -28 18 | 8.8 | | | |

14 34.3 | -28.3 | | | | -28 10858 | 14 32.4 | -28 4 | 8.0

14 36.6 | -28.4 | 19901 | 14 36.1 | -28 23 | 8.5 | | | |

14 37.0 | -28.5 | 19924 | 14 37.2 | -28 33 | 9 | | | |

14 38.0 | -28.6 | 19951 | 14 38.6 | -28 35 | 9 | | | |

14 44.0 | -28.7 | 20090 | 14 44.1 | -28 37 | 7.2 | | | |

14 47.1 | -28.6 | | | | -28 11007 | 14 45.4 | -28 24 | 8.4

14 51.3 | -28.8 | 20247 | 14 51.3 | -28 45 | 6.5 | | | |

14 52.7 | -28.4 | 20288 | 14 52.6 | -28 18 | 8 | | | |

14 56.8 | -28.7 | 20387 | 14 56.7 | -28 37 | 8.8 | | | |

14 57.4 | -28.8 | 20413 | 14 57.5 | -28 39 | 8 | | | |

14 22.4 | -29.2 | 19577 | 14 22.4 | -29 3 | 4.8 | | | |

14 23.3 | -28.7 | 19593 | 14 23.4 | -28 40 | 7.5 | | | |

14 31.0 | -28.7 | 19784 | 14 30.9 | -28 40 | 8.5 | | | |

14 35.0 | -28.9 | 19863 | 14 34.6 | -28 53 | 7.2 | | | |

14 36.3 | -29.3 | 19892 | 14 35.9 | -29 16 | 7.2 | | | |

14 32.0 | -29.3 | 19806^h[[19804]] | 14 31.6^h[[31.6]] | -29 15^m[[29 15]] |9^m[[85]]

14 36.4 | -28.9 | 19897 | 14 36.0 | -28 55 | 7.8 | | | |

[[/table]]

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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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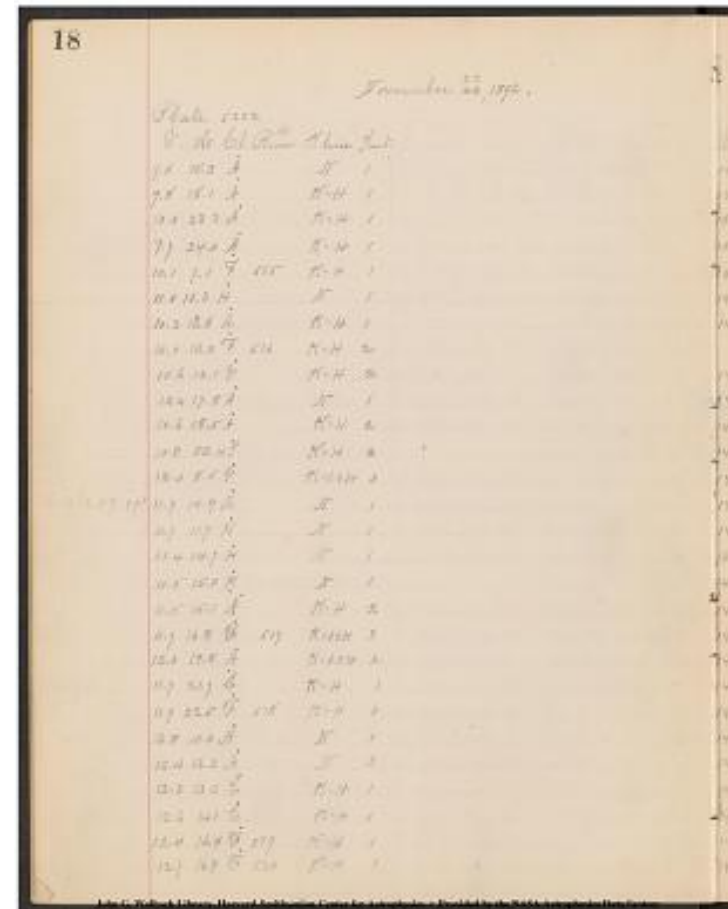
November ~~23~~ 22, 1892.
Plate 5202

[[table]]

V | H | Cl. | No. Rem. | K Line | Int. |

9.8	15.3	A		N 1
9.8	18.1	A		K=H 1
10.0	23.3	A		K=H 1
9.7	24.0	A		K=H 1
10.1	7.1	F	515	K=H 1
11.0	10.3	H		N 1
10.3	12.8	A		K=H 1
10.0	13.0	F	516	K=H 2
10.6	13.1	G		K=H 2
10.4	17.8	A		N 1
10.6	18.5	A		K=H 2
10.8	22.4	F		K=H 2
12.0	8.5	G		K=1.2H 3
^[[Should be 11.7 9.9?]] 11.7 10.9 A N 1				
11.7	11.7	H		N 1
11.4	14.7	H		N 1
11.5	15.0	H		N 1
11.5	15.1	A		K=H 2
11.7	16.8	F	517	K=1.2H 3
12.0	19.8	A		K=0.5H 2
11.7	21.7	E		K=H 1
11.9	22.5	F	518	K=H 3
12.8	10.0	A		N 1
12.4	12.3	A		N 3
12.3	13.2	E		K=H 1
12.6	14.1	E		K=H 1
12.4	16.4	F	519	K=H 1
12.7	16.9	F	520	K=H 1

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]									
R.A. 1900 Dec. 1900 A.G.C. R.A. Dec. Magn. C.D.M. R.A. Dec. Magn.]									
14	43.2	29.2					14	41.6	29.2
14	49.5	29.2	20195	14	49.3	29	7	8.5	
15	1.3	29.3	20502	15	1.2	29	7	8.2	
15	3.0	29.2	20530	15	2.7	28	59	8.5	28 11 179 15 1.2 28 53 7.8
14	24.5	29.3	19615	14	24.2	29	11	8.2	
14	31.3	29.8	19799	14	31.3	29	45	8	
14	37.1	29.4	Ask	Mrs.	F.	29	11	261	14 35.8 29 15 8.2
14	38.4	29.6	19938	14	37.8	29	34	7.2	
14	48.8	29.5				29	11	387	14 47.2 29 20 8.5
14	50.6	29.6	20226	14	50.4	29	33	8.2	
14	59.2	29.2	20455	14	59.3	29	36	7.2	
14	27.3	30.3	19697	14	27.2	30	17	6.4	
14	30.6	30.2							
14	34.5	30.2	19861	14	34.5	30	7	8	
14	41.6	29.9	20028	14	41.5	29	55	8.2	
14	42.4	30.0	20057	14	42.6	30	1	8.8	29 11 321 14 40.7 29 58 8.1
14	42.8	30.1	20057			29	11	325	14 41.1 29 56 8.0
14	46.7	30.2	20135	14	46.6	30	10	6.7	
			20312		53.4	30	18	9	
14	53.6	30.4	20313	14	53.5	30	19	7	
14	57.8	30.2				29	11	500	14 56.3 29 59 7.3
14	59.5	30.3	20462	14	59.5	30	10	6.8	
14	30.4	30.7	19778	14	30.7	30	36	9	
14	35.8	30.6	19894	14	35.9	30	30	6.6	
14	38.1	30.5							
14	40.2	30.6				30	11	687	14 38.7 30 26 8.1
						30	11	767	14 44.2 30 22 9.5
14	45.6	30.5				30	11	768	14 44.2 30 21 8.8
14	46.7	30.7	20143	14	46.8	30	38	8.2	
[[/table]]									

19									
14	43.2	29.2					14	41.6	29.2
14	49.5	29.2	20195	14	49.3	29	7	8.5	
15	1.3	29.3	20502	15	1.2	29	7	8.2	
15	3.0	29.2	20530	15	2.7	28	59	8.5	28 11 179 15 1.2 28 53 7.8
14	24.5	29.3	19615	14	24.2	29	11	8.2	
14	31.3	29.8	19799	14	31.3	29	45	8	
14	37.1	29.4	Ask	Mrs.	F.	29	11	261	14 35.8 29 15 8.2
14	38.4	29.6	19938	14	37.8	29	34	7.2	
14	48.8	29.5				29	11	387	14 47.2 29 20 8.5
14	50.6	29.6	20226	14	50.4	29	33	8.2	
14	59.2	29.2	20455	14	59.3	29	36	7.2	
14	27.3	30.3	19697	14	27.2	30	17	6.4	
14	30.6	30.2							
14	34.5	30.2	19861	14	34.5	30	7	8	
14	41.6	29.9	20028	14	41.5	29	55	8.2	
14	42.4	30.0	20057	14	42.6	30	1	8.8	29 11 321 14 40.7 29 58 8.1
14	42.8	30.1	20057			29	11	325	14 41.1 29 56 8.0
14	46.7	30.2	20135	14	46.6	30	10	6.7	
			20312		53.4	30	18	9	
14	53.6	30.4	20313	14	53.5	30	19	7	
14	57.8	30.2				29	11	500	14 56.3 29 59 7.3
14	59.5	30.3	20462	14	59.5	30	10	6.8	
14	30.4	30.7	19778	14	30.7	30	36	9	
14	35.8	30.6	19894	14	35.9	30	30	6.6	
14	38.1	30.5							
14	40.2	30.6				30	11	687	14 38.7 30 26 8.1
						30	11	767	14 44.2 30 22 9.5
14	45.6	30.5				30	11	768	14 44.2 30 21 8.8
14	46.7	30.7	20143	14	46.8	30	38	8.2	

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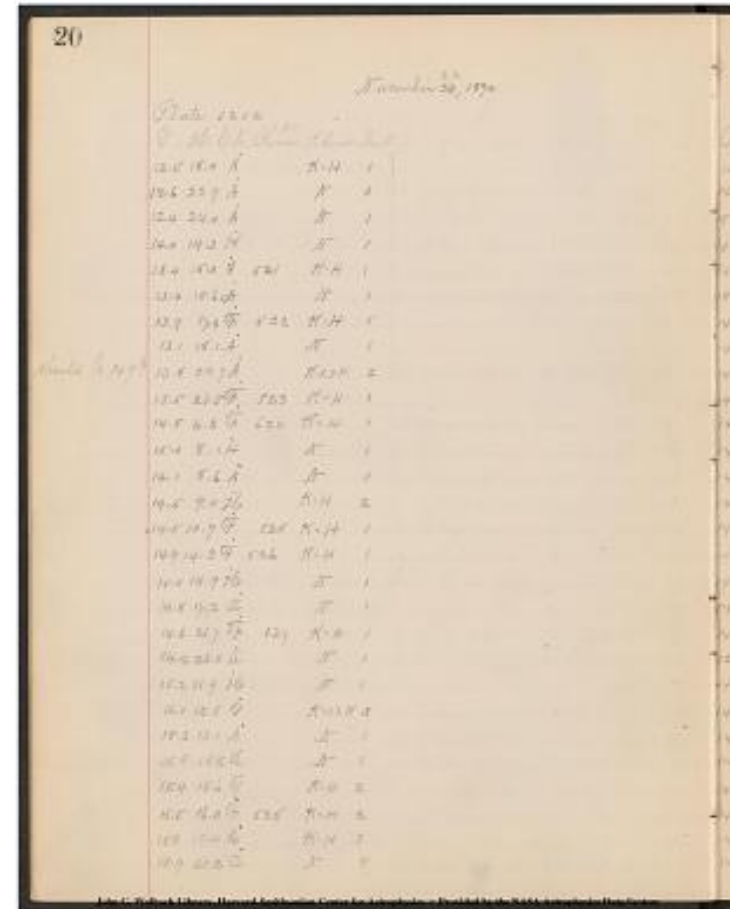
[[table]]

V.	H	Cl.	Rem. No	K line	Int.
12.5	18.4	A		K=H	1
12.6	22.9	A		N	3
12.4	24.0	A		N	1
14.0	14.3	H		N	1
13.4	15.0	F	521	K=H	1
13.4	15.6	A		N	1
13.9	17.4	F	522	K=H	1
13.1	18.1	A		M	1

[[left margin]] should be 20.7? [[/left margin]] | 13.8 | 22.7 | A | | K=0.3H
2 |

13.5	21.5	F	523	K=H	1
14.5	6.3	F	524	K=H	1
15.0	8.1	H		N	1
14.1	8.6	A		N	1
14.5	9.0	H		K=H	2
14.5	10.9	F	525	K=H	1
14.9	14.3	F	526	K=H	1
15.0	14.9	H		N	1
14.8	17.2	A		N	1
14.6	21.7	F	527	K=H	1
14.2	23.0	A		N	1
15.2	11.9	H		N	1
16.0	12.5	G		K=1.2H	3
15.3	13.1	A		N	1
15.8	15.2	A		N	1
15.4	15.6	G		K=H	2
15.5	16.0	F	528	K=H	2
15.8	18.2	L		K=H	3
15.9	21.2	A		N	4

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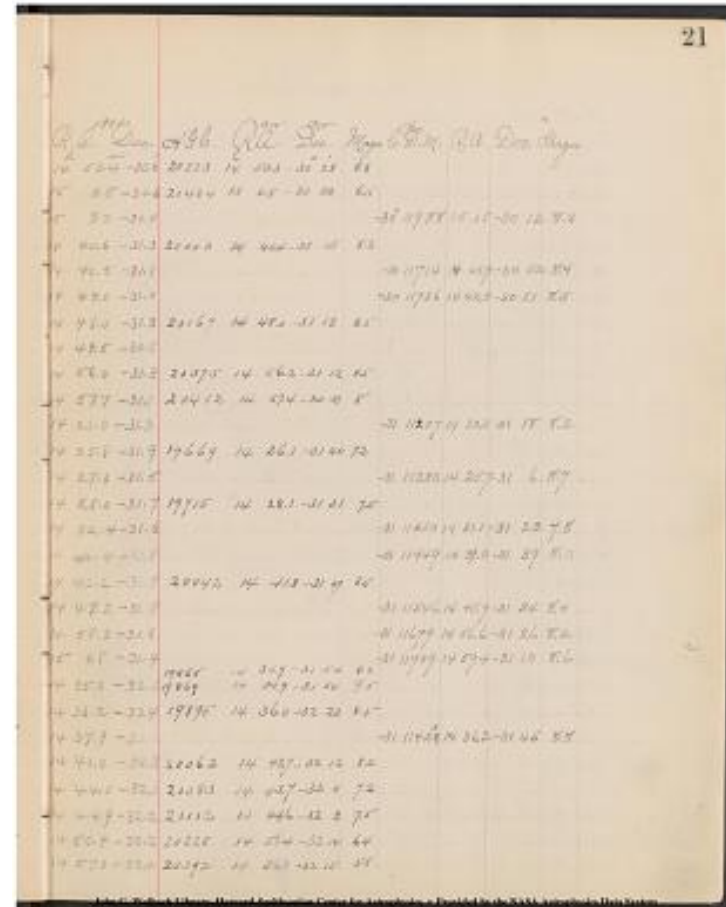


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[10 column table]]

R.A.1900|Dec.1900|A.G.C.|R.A.1900|Dec.1900|Magn|C.D.M.|R.A.|Dec.|
Magn|

14	50.4	-30.6	20223	14	50.3	-30	28	8.8						
15	0.5	-30.6	20484	15	0.5	-30	32	6.5						
15	3.3	-30.4			-30°	11988	15	1.5	-30	12	8.3			
14	40.6	-31.3	20003	14	40.4	-31	15	8.2						
14	42.5	-31.1			-30	11714	14	40.9	-30	52	8.4			
14	44.0	-31.0			-30°	11736	14	42.3	-30	51	8.5			
14	48.0	-31.3	20167	14	48.0	-31	13	8.5						
14	49.5	-30.8			?									
14	56.0	-31.3	20375	14	56.2	-31	12	8.5						
14	57.7	-31.1	20412	14	57.4	-30	59	8						
14	21.0	-31.3			-31	11207	14	20.3	-31	18	8.2			
14	25.8	-31.9	19669	14	26.1	-31	45	7.2						
14	27.0	-31.5			-31	11280	14	25.7	-31	6	8.7			
14	28.0	-31.7	19715	14	28.1	-31	31	7.5						
14	32.4	-31.6			-31	11350	14	31.1	-31	23	7.8			
14	40.4	-31.8			-31	11449	14	39.0	-31	39	8.0			
14	42.2	-31.9	20042	14	41.8	-31	49	8.5						
14	47.2	-31.7			-31	11546	14	45.9	-31	34	8.4			
14	58.3	-31.6			-31	11679	14	56.6	-31	26	8.2			
15	0.8	-31.4			-31	11709	14	59.4	-31	10	8.6			
			19868	14	34.9	-31	54	8.2						
14	35.0	-32.0	19869	14	34.9	-31	54	9.5						
14	36.2	-32.4	19895	14	36.0	-32	23	8.5						
14	37.9	-32.0			-31	1142	[[strikethrough]]	0	[[strikethrough]]	3	14			
14	43.0	-32.3	20062	14	42.7	-32	12	8.2						
14	44.0	-32.1	20083	14	43.7	-32	0	7.2						
14	44.9	-32.2	20102	14	44.6	-32	2	7.5						
14	50.4	-32.3	20228	14	50.4	-32	14	6.4						
14	57.0	-32.4	20392	14	56.8	-32	15	5.8						



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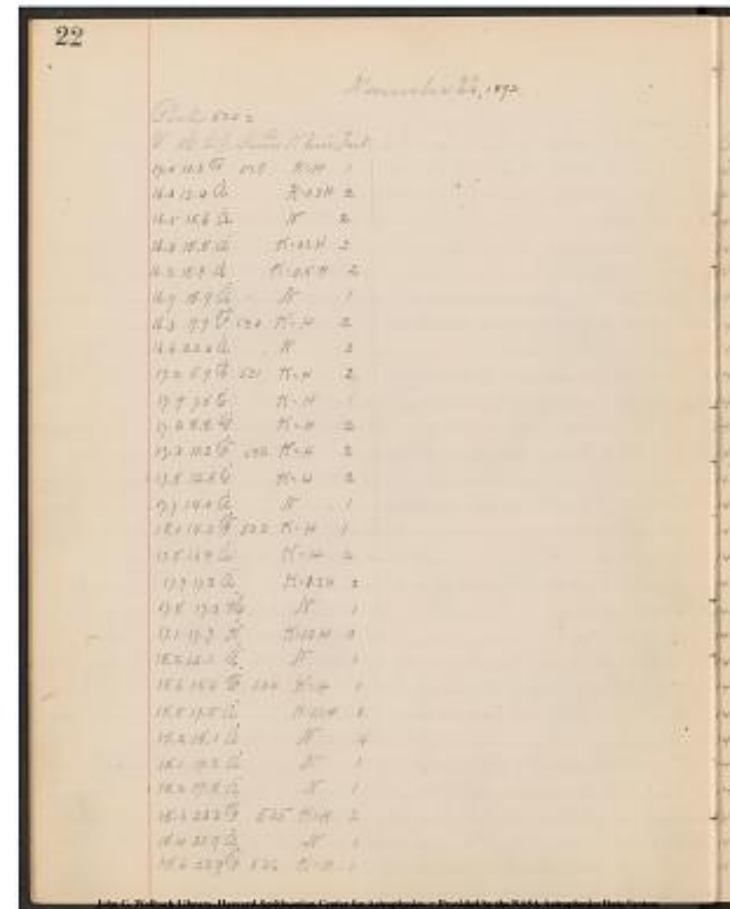
22
November ~~23~~ 22, 2892

Plate 5202

[[6 columned table]]

V	H	Cl.	Rem.	No	K line	Int.
17.0	10.3	F	529	K=H	1	
16.3	12.4	A		K=0.3H	2	
16.5	15.6	A		N	2	
16.3	18.8	A		K=0.2H	3	
16.3	18.9	A		K=0.5H	2	
16.9	18.9	A		N	1	
16.3	19.9	F	530	K=H	2	
16.6	23.0	A		N	3	
17.2	5.9	F	531	K=H	2	
17.9	7.5	E		K=H	1	
17.2	8.8	G		K=H	2	
17.3	11.3	F	532	K=H	2	
17.8	12.5	G		K=H	2	
17.7	14.0	A		N	1	
18.0	14.3	F	533	K=H	1	
17.5	16.9	A		K=H	2	
17.9	17.3	A		K=0.2H	3	
17.8	17.3	H		N	1	
17.1	17.7	K		K=1.2H	3	
18.2	13.1	A		N	1	
18.6	15.4	F	534	K=H	1	
18.8	17.5	A		K=0.2H	3	
18.2	18.1	A		N	4	
18.1	19.2	A		N	1	
18.2	19.8	A		N	1	
18.3	20.3	F	535	K=H	2	
18.4	20.9	A		N	1	
18.6	23.9	F	536	K=H	1	

[[/table]]

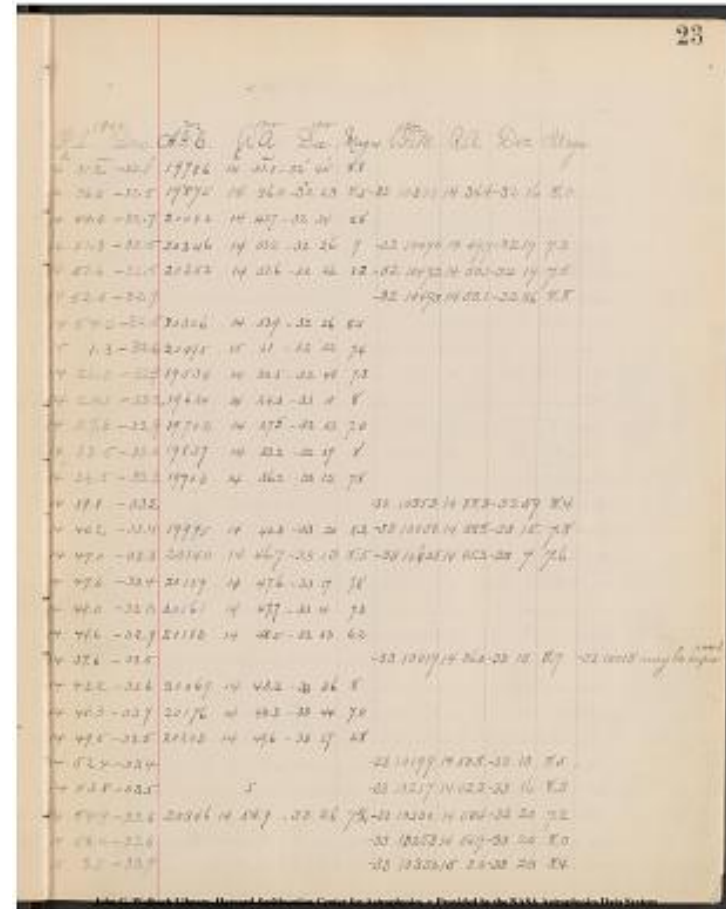


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[10 column table]]

R.A.1900|Dec.1900|No.A.G.C.|R.A.1900|Dec.1900|Magn|No.
C.D.M.|R.A.|Dec.|Magn.]

[[[h]]]	31.2^[[m]]	-32.8^	19786	14^[[h]]	31.0^[[m]]	-32° 45'	8.8]			
14 36.0	-32.5	19895	14 36.0	-32 23	8.5	-32 10301	14 34.4	-32 16	8.0]	
14 44.0	-32.7	20082	14 43.7	-32 34	8.8]					
14 51.3	-32.5	20246	14 51.2	-32 26	7	-32 10490	14 49.7	-32 19	7.3]	
14 51.6	-32.5	20252	14 51.6	-32 26	8.2	-32 10492	14 50.1	-32 19	7.5]	
14 52.0	-32.7			-32 10493	14 50.1	-32 36	8.8]			
14 54.0	-32.5	20326	14 53.9	-32 26	8.5]					
15 1.3	-32.6	20495	15 1.1	-32	7.4]					
14 20.0	-32.9	19534	14 20.5	-32 48	7.3]					
14 24.1	-33.2	19620	14 24.3	-33 11	8]					
14 27.6	-32.9	19702	14 27.5	-32 53	7.0]					
14 33.5	-33.0	19837	14 33.2	-32 57	8]					
14 36.5	-33.3	19903	14 36.2	-33 12	7.8]					
14 39.8	-33.2			-32 10353	14 38.3	-32 59	8.4]			
14 40.2	-33.4	19995	14 40.3	-33 20	8.2	-33 10050	14 38.8	-33 15	7.8]	
14 47.0	-33.3	20140	14 46.7	-33 13	8.5	-33 10	[[strikethrough]] 0			
[[strikethrough]] 135			14 45.2	-33 7	7.6]					
14 47.6	-33.4	20159	14 47.6	-33 17	7.8]					
14 48.0	-33.3	20161	14 47.7	-33 14	7.3]					
14 48.6	-32.9	20183	14 48.5	-32 53	6.2]					
14 37.6	-33.5			-33 10019	14 36.0	-33 15	8.7	-33 10018	maybe superposed.	
14 43.2	-33.6	20069	14 43.2	-33 36	8]					
14 48.3	-33.7	20176	14 48.3	-33 44	7.0]					
14 49.5	-33.5	20203	14 49.6	-33 27	5.8]					
14 52.4	-33.4			-33 10199	14 50.8	-33 10	8.5]			
14 53.8	-33.5		15]	-33 10217	14 52.3	-33 16	8.3]			
14 54.9	-33.6	20346	14 54.9	-33 26	7 3/4	-33 10230	14 53.4	-33 20	7.2]	
14 56.4	-33.6			-33 10253	14 54.9	-33 20	8.0]			
15 3.8	-33.7			-33 10350	15 2.0	-33 20	8.4]			



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November ~~23~~ 22, 1892
Plate 5202

[[6 column table]]

| V. | H. | Cl. | No Rem. | K line | Int. |

20.0	8.0	A		N	2
18.5	12.2	H		N	1
20.0	8.8	E		K=H	1
20.1	10.0	A		N	1
20.1	10.3	A		N	2
20.0	14.8	A		K=H	2
19.5	18.9	A		N	1
19.3	20.7	A		K=0.5H	3
Should be 20.9, 9.5? 20.9					
21.0	11.0	A		K=0.3H	2
20.7	13.2	A		13.2	K
20.7	13.7	A		N	4
20.7	15.9	A		N	1
21.0	18.4	A		K=H	1
20.2	21.2	A		N	1
Should be 20.8? 21.8					
21.6	6.5	F	538	K=H	2
21.5	9.5	F	539	K=H	1
21.7	11.2	F	540	K=H	2
21.6	15.3	A		K=0.3H	2
22.0	15.5	A		N	2
21.3	18.8	H		N	2
21.7	22.4	A		N	1
22.5	10.1	A		N	1
22.7	12.1	A		N	3
22.8	13.8	A		N	2
22.2	15.1	F		K=H	2

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[10 column table]]

1900 R.A. | 1900 Dec. | No. A.G.C. | 1900 R.A. | 1900 Dec. | Magn. | No.
C.D.M. | R.A. | Dec. | Magn.

14 24.6	-34.3	19644	14 25.2	-34 14	7.5				
14 35.4	-33.6	19881	14 35.3	-33 31	8.5				
14 26.7	-34.3	19693	14 27.1	-34 17	8.5				
14 29.5	-34.4	19757	14 30.0	-34 29	7.5				
14 30.4	-34.4	19758	14 30.0	-34 20	8.2				
14 41.5	-34.4	20031	14 41.5	-34 18	8				
14 50.3	-34.3	20224	14 50.3	-34 13	7.8				
14 51.5	-34.3		14 51.5	-34 10	9.1	14 49.9	-33 56	8.4	
14 55.6	-33.9	20361	14 55.7	-33 58	6.6				
14 28.5	-34.8								
14 32.2	-34.9	19818	14 32.3	-34 51	7.0				
14 37.4	-34.8	19931	14 37.5	-34 44	4.3				
14 39.2	-34.8	19958	14 38.8	-34 46	5.4				
14 44.5	-34.8		14 44.5	-34 49	6.4	14 42.8	-34 35	8.0	
14 50.8	-34.9	20229	14 50.5	-34 50	7.8				
14 57.1	-34.5		14 57.1	-34 50	9.1	14 55.4	-34 18	9.1	
14 22.5	-34.8								
14 21.4	-35.2	19561	14 21.5	-35 0	7.2				
14 28.7	-35.2	19725	14 28.6	-35 2	7.8				
14 32.7	-35.2	19829	14 32.8	-35 10	8.2				
14 42.9	-35.3	2006	14 42.9	-35 8	8.2				
14 51.4	-35.4		14 51.4	-35 8	8.2				
14 51.8	-35.2	20248	14 51.3	-34 59	8	14 100.63	14 49.8	-34 53	7.1
15 0.4	-35.1	20234				14 35 9917	14 49.2	-35 11	8.0
14 30.0	-35.6		14 30.0	-35 6	4.5	14 28.6	-35 22	8.4	
14 35.0	-35.8	19867	14 34.9	-35 43	6.2				
14 39.4	-35.8	19966	14 39.1	-35 43	7.5				
		20050	14 42.3	-35 25	9				
14 42.5	-35.5	20051	14 42.3	-35 25	7.2				

[[/table]]

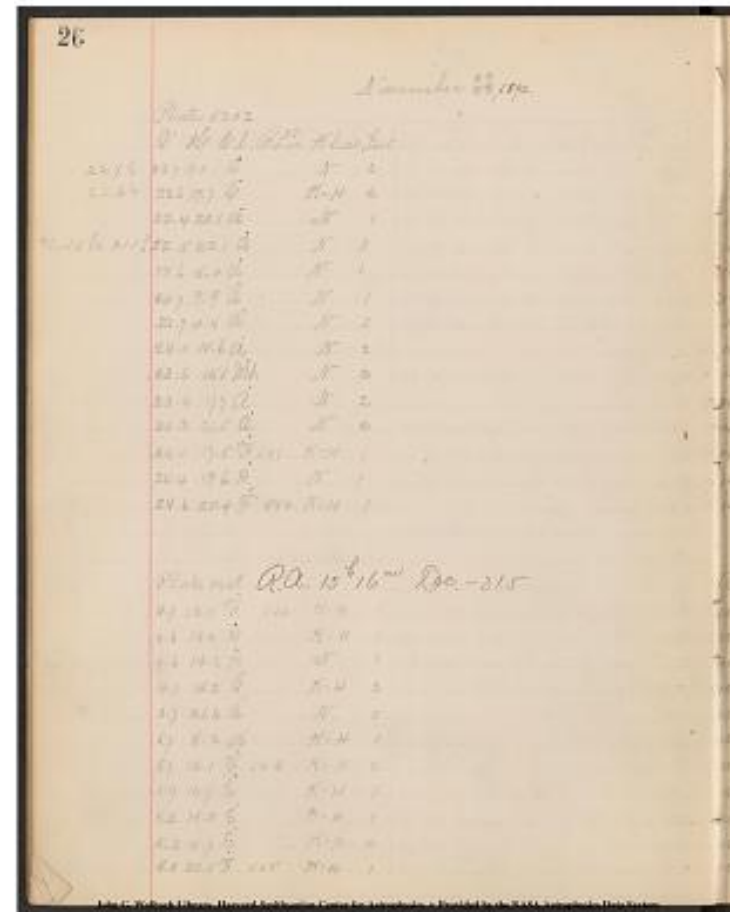
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November ~~23~~ 22, 1892
Plate 5202

V	H	CL	Rem No.	Kline	Int.
22.7?	23.7	19.0	A	N 2	
22.6?	23.6	19.7	G	K=H 2	
22.4	20.1	A	N 1		
Should be 21.1? 22.5 22.1 A N 3					
23.6	8.0	A	N 1		
23.7	9.9	A	N 1		
23.9	10.4	A	N 2		
24.0	10.6	A	N 2		
23.6	15.1	Mb	N 2		
23.4	17.7	A	N 2		
23.3	21.5	A	N 2		
24.1	17.5	F 541	K=H 1		
24.4	19.6	H	N 1		
24.6	20.4	F 542	K=H 1		

Plate 3448 R.A. 15^h 16^m Dec. -31.5

V	H	CL	Rem No.	Kline	Int.
4.7	12.1	F 543	K=H 1		
4.6	13.0	H	K=H 1		
4.6	14.2	H	N 1		
4.0	15.2	G	K=H 2		
3.7	21.6	A	N 2		
5.7	8.2	A	K=H 1		
5.7	12.1	F 544	K=H 2		
5.9	14.7	E	K=H 1		
5.2	15.5	E	K=H 1		
5.2	15.7	E	K=H 2		
5.0	20.5	F 545	K=H 1		



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[[preprinted]]27[[/preprinted]]

[[table]]

R.A. 1900 | Dec. | No. A.G.C. | 1900 R.A. | 1900 Dec. | Magn. | No.
C.D.M. | R.A. | Dec. | Magn. |

14 52.2|-35.7 | 20265 | 14^[[h]] 51.9|-35[[symbol-degree symbol]] 40' | 8

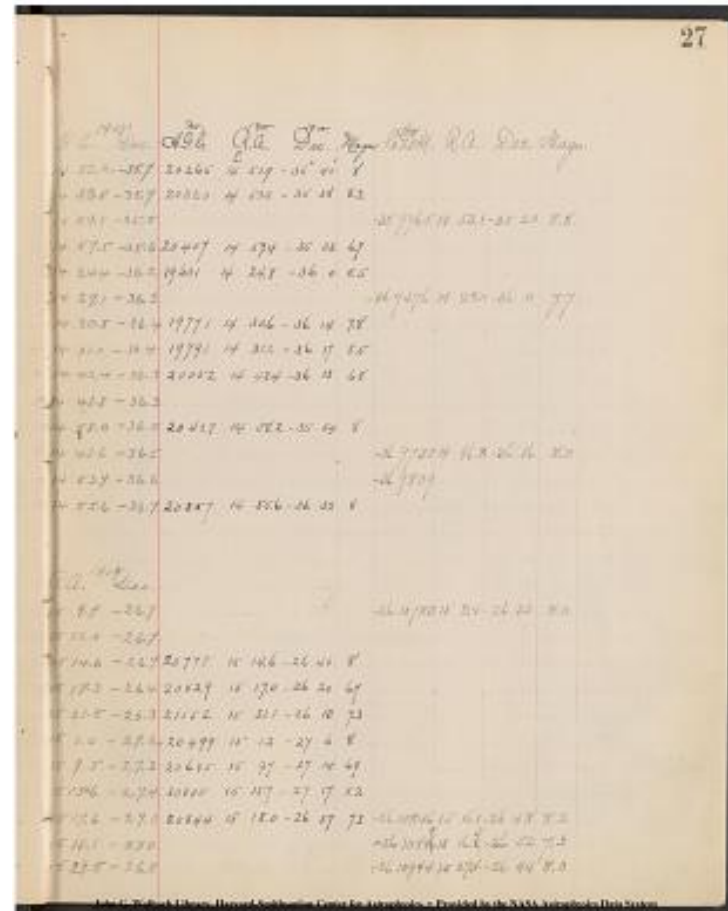
14 53.8|-35.7|20320|14 53.8|-35 38|8.2| | | | |
14 54.8|-35.5| | | | -35 9965|14 53.1|-35 20|8.8|
14 57.5|-35.6|20407|14 57.4|-35 33|6.7| | | | |
14 24.4|-36.2|19631|14 24.8|-36 0|8.5| | | | |
14 29.1|-36.3| | | | -36 9476|14 28.0|-36 0|7.7|
14 30.5|-36.4|19771|14 30.6|-36 14|7.8| | | | |
14 31.0|-36.4|19791|14 31.2|-36 17|8.5| | | | |
14 42.4|-36.3|20052|14 42.4|-36 13|6.8| | | | |
14 48.8|-36.3| | | | | | | | |
14 58.0|-36.0|20427|14 58.2|-35 54|8| | | | |
14 48.6|-36.5| | | | -36 9735|14 46.8|-36 16|8.0|
14 53.7|-36.6| -36 9809| | | | | |
14 55.6|-36.7|20357|14 55.6|-36 32|8| | | | |

[[/table]]

R.A. 1900 DEC.

[[table]]

15 9.7|-26.7| | | | -26 10783|15 8.4|-26 33|8.0|
15 12.0|-26.7| | | | -26 10783|15 8.4|-26 33|8.0|
15 14.6|-26.7|20778|15 14.6|-26 40|8| | | | |
15 17.3|-26.4|20829|15 17.0|-26 20|6.7| | | | |
15 31.5|-26.3|21152|15 31.1|-26 10|7.3| | | | |
15 1.0|-27.2|20499|15 1.2|-27 6 8| | | | |
15 9.5|-27.3|20685|15 9.7|-27 14|6.9| | | | |
15 15.6|-27.4|20805|15 15.7|-27 17|8.2| | | | |
15 17.6|-27.0|20844|15 18.0|-26 57|7.3|-26 10846 |5 16.1|-26 48|8.2|
15 18.1|-27.0| | | | -26 1084[[strikethrough]]
6[[/strikethrough]]^9|15 16.1[[strikethrough]] 1[[/strikethrough]]5|-26 52|
7.3|
15 29.5|-26.8| | | | -26 10944|15 27.4|-26 44|8.0|
[[/table]]



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November 22~~[[/strikethrough]]~~ 23~~[[/strikethrough]]~~, 1892.
Plate 3448

[[table]]

| V | H | Cl | Rem^[[No.]] | K Line | Int. |

6.0|22.6|a| |N|2|

6.9|6.0|a| |N|3|

6.5|6.7|F|546|K=H|1|

6.9|6.9|a| |N|1|

6.3|11.9|a| |N|2|

7.0|14.2|a| |N|3|

6.4|14.7|a| |N|1|

6.5|15.5|a| |N|1|

6.5|16.9|F|547|K=H|1|

6.9|19.2|a| |N|2|

6.6|20.3|k| |K=H|2|

6.7|21.4|k| |K=H|4|

7.0|22.0|J| |K=H|2|

7.3|7.1|F|548|K=H|2|

7.4|9.1|a| |K=H|2|

7.4|19.1|H| |N|1|

7.5|20.6|F|549|K=H|1|

^[[Should be 20.7]] 8.5|23.7|E| |K=H|1|

9.0|15.1|G| |K=H|3|

8.2|17.8|F|550|K=H|3|

8.6|20.6|a| |N|2|

8.5|21.0|H| |N|1|

9.6|8.4|F|551|K=H|1|

9.1|8.8|F|552|K=H|1|

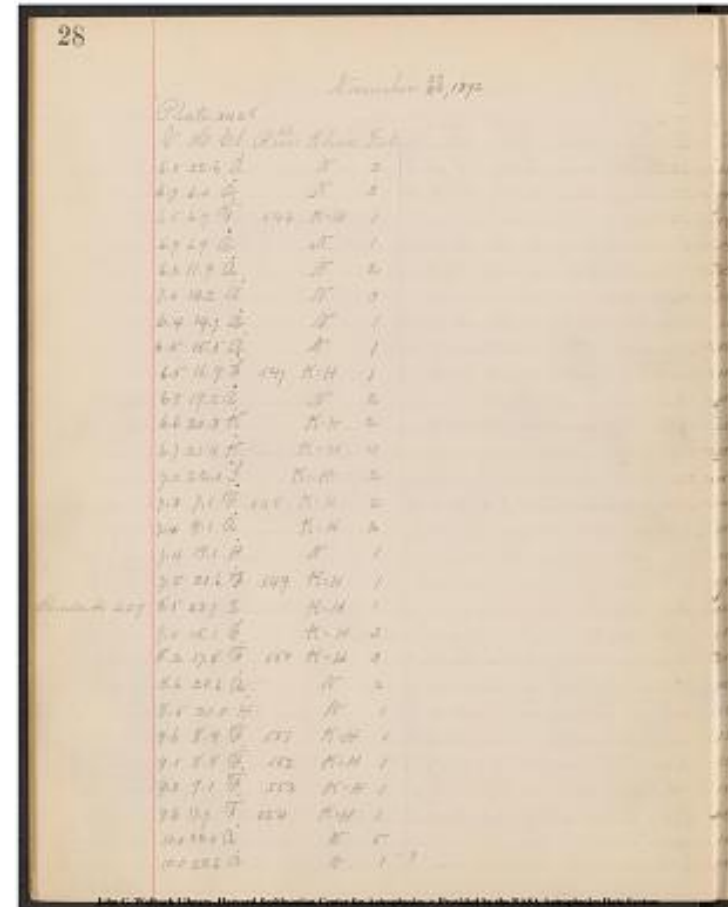
9.3|9.1|F|553|K=H|1|

9.6|19.7|F|554|K=H|1|

10.0|22.0|A| |N|5|

10.0|22.6|A| |N|1|

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]									
R.A. 1900 Dec. 1900 A.G.C. No. R.A. 1900 Dec. 1900 Magn No.									
C.D.M. R.A. Dec. Magn.									
15 33.5	-27.5	21212	15^	33.5	-27° 19'8				
14 56.3	-27.7	20376	14 56.2	-27 40	6.2				
14 58.0	-27.6	20426	14 58.1	-27 40	7.5				
14 58.5	-27.8	20441	14 58.6	-27 54	7.5				
15 9.4	-27.5	20669	15 9.3	-27 29	7.5				
15 14.5	-27.9	20773	15 14.5	-27 56	7.0				
15 15.5	-27.7	Not in A.G.C.				-2710333	15 14.1	-27 29	8.2
15 17.7	-27.7	20839	15 17.7	-27 36	8.5				
15 21.0	-27.7	20908	15 20.8	-27 37	7.6				
15 25.6	-27.9	21035	15 26.1	-27 49	8.2				
15 28.4	-27.8	21090	15 28.5	-27 42	5.7				
15 30.6	-27.9	21146	15 30.9	-27 48	3.9				
15 32.3	-27.9	21180	15 32.2	-27 53	6.5				
14 59.0	-28.1					-27 10200	1	5	4
57.1	-27 48	7.2							
15 3.0	-28.1	20538	15 3.1	-27 59	8				
15 25.5	-28.2	21029	15 25.7	-28 4	8				
15 29.0	-28.3	21100	15 29.1	-28 8	8.2				
15 29.2	-28.9	21100	15 29.2	-28.9	8.2				
15 17.0	-29.0	20824	15 16.7	-29 0	6.6				
15 23.0	-28.6	20966	15 22.9	28 31	28				
31	9	6.8							
15 29.2	-28.8	21106	15 29.2	-28 43	7.2				
15 29.9	-28.7	21131	15 30.1	-28 40	7				
15 1.2	-29.2	20502	15 1.2	-29 7	8.2				
15 2.3	-28.9	20519	15 2.1	-28 49	8.2				
15 2.6	-29.0	20530	15 2.7	-28 59	8.5				
15 22.7	-29.3	20955	15 22.6	-29 13	8.2				
15 32.5	-29.5	21186	15 32.5	-29 27	3.8				
15 33.6	-29.5	21217	15 33.7	-29 25	8.5				
[[/table]]									

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November 22 ~~[[/strickethrough]]~~ 23 ~~[[/strickethrough]]~~, 1892
 Plate 3445

[[table]]
V	H	C	No Rem	Kline	Int.
 10.6|7.3|E| |K = H|1|
 10.6|7.6|G| |K = H|2|
 10.6|13.1|L|---|K = 1.2H|3|
 10.5|22.8|F|555|K = H|1|
 10.8|23.5|H| |N|1|
 11.6|7.1|E| |K = H|1|
 11.6|7.8|F|556|K = H|2|
 11.4|8.1|Mb.| |N|1|
 11.9|9.2|A| |N|1|
 11.9|11.2|E| |K = H|1|
 11.9|12.3|E| |K = H|2|
 11.1|15.0|H| |N|1|
 10.9|19.3|F|557|K = H|1|
 11.6|24.1|A| |N|2|
 12.0|24.3|H| |N|1|
 12.3|8.2|A| |N|3|
 12.2|10.6|F|558|K = H|2|
 12.7|13.5|I| |K = H|2|
 12.0|14.1|E| |K = H|1|
 13.0|16.7|F|559|K = H|2|
 12.7|19.2|E| |K = H|1|
 12.4|19.9|E| |K = H|1|
 12.9|21.7|F|560|K = H|2|
 12.9|22.6|I| |K = H|2|
 13.7|6.2|A| |N|2|
 13.4|7.0|F|561|K = H|1|
 13.9|8.5|A| |N|1|
 13.3|11.7|A| |K = H|3|
 [[/table]]

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November 22, 1892

Plate 3445

V	H	C	No Rem	Kline	Int.
10.6	7.3	E		K = H	1
10.6	7.6	G		K = H	2
10.6	13.1	L	---	K = 1.2H	3
10.5	22.8	F	555	K = H	1
10.8	23.5	H		N	1
11.6	7.1	E		K = H	1
11.6	7.8	F	556	K = H	2
11.4	8.1	Mb.		N	1
11.9	9.2	A		N	1
11.9	11.2	E		K = H	1
11.9	12.3	E		K = H	2
11.1	15.0	H		N	1
10.9	19.3	F	557	K = H	1
11.6	24.1	A		N	2
12.0	24.3	H		N	1
12.3	8.2	A		N	3
12.2	10.6	F	558	K = H	2
12.7	13.5	I		K = H	2
12.0	14.1	E		K = H	1
13.0	16.7	F	559	K = H	2
12.7	19.2	E		K = H	1
12.4	19.9	E		K = H	1
12.9	21.7	F	560	K = H	2
12.9	22.6	I		K = H	2
13.7	6.2	A		N	2
13.4	7.0	F	561	K = H	1
13.9	8.5	A		N	1
13.3	11.7	A		K = H	3

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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1894		1895		1896		1897		1898		1899		1900		1901		1902		1903		1904		1905		1906		1907		1908		1909		1910		1911		1912		1913		1914		1915		1916		1917		1918		1919		1920		1921		1922		1923		1924		1925		1926		1927		1928		1929		1930		1931		1932		1933		1934		1935		1936		1937		1938		1939		1940		1941		1942		1943		1944		1945		1946		1947		1948		1949		1950		1951		1952		1953		1954		1955		1956		1957		1958		1959		1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970		1971		1972		1973		1974		1975		1976		1977		1978		1979		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2
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November ~~23~~ 22, 1892
Plate 3448

V	H	C.L.	No.	Rem	K line	Int
14.0	12.6	A			N 1	
13.3	13.0	A			N 1	
13.9	14.0	F	562		K=H 1	
13.4	14.9	E			K=H 1	
14.0	15.4	A			N 1	
13.8	15.9	A			N 1	
13.3	17.7	A			K=0.3H 2	
13.5	21.4	F	563		K=H 1	
13.3	22.5	F	564		K=H 1	
13.7	24.2	G			K=H 2	
[[margin]] 14.5 7.3? [[/margin]]						
13.5	7.3	F	565		K=H 1	
14.8	9.7	F	566		K=H 1	
14.2	13.6	A			K=H 1	
14.4	13.8	A			N 1	
14.6	15.0	Mb			N 1	
14.9	15.4	H			N 1	
14.6	16.1	A			K=H 2	
14.2	19.4	A			K=H 1	
14.4	19.8	A			N 1	
14.5	21.3	F	567		K=H 2	
14.2	22.3	A			N 1	
14.2	23.2	F	568		K=H 1	
14.9	23.6	A			N 3	
15.8	6.9	A			N 4	
16.0	10.7	A			N 1	
15.0	18.4	E			K=H 1	
15.6	21.1	A			N 2	
15.4	21.4	F	569		K=H 1	

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November 22, 1892

V	H	C.L.	No.	Rem	K line	Int
14.0	12.6	A			N 1	
13.3	13.0	A			N 1	
13.9	14.0	F	562		K=H 1	
13.4	14.9	E			K=H 1	
14.0	15.4	A			N 1	
13.8	15.9	A			N 1	
13.3	17.7	A			K=0.3H 2	
13.5	21.4	F	563		K=H 1	
13.3	22.5	F	564		K=H 1	
13.7	24.2	G			K=H 2	
[[margin]] 14.5 7.3? [[/margin]]						
13.5	7.3	F	565		K=H 1	
14.8	9.7	F	566		K=H 1	
14.2	13.6	A			K=H 1	
14.4	13.8	A			N 1	
14.6	15.0	Mb			N 1	
14.9	15.4	H			N 1	
14.6	16.1	A			K=H 2	
14.2	19.4	A			K=H 1	
14.4	19.8	A			N 1	
14.5	21.3	F	567		K=H 2	
14.2	22.3	A			N 1	
14.2	23.2	F	568		K=H 1	
14.9	23.6	A			N 3	
15.8	6.9	A			N 4	
16.0	10.7	A			N 1	
15.0	18.4	E			K=H 1	
15.6	21.1	A			N 2	
15.4	21.4	F	569		K=H 1	

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]													
R.A. 1900 Dec. 1900 A.G.C. No. R.A. 1900 Dec. 1900 Magn C.D.M													
No. R.A. Dec. Magn.]													
----- ----- ----- ----- ----- ----- ----- ----- ----- -----													
15 10.5 -31.5 not in a.G.c.]				-31 11835	[[/strickethrough]] 29	[[/strickethrough]]							
[[/strickethrough]]15 8.9	[[/strickethrough]]	5	[[/strickethrough]]	-31 15	[[/strickethrough]]								
[[/strickethrough]]22	[[/strickethrough]]	9.3	[[/strickethrough]]	8.6	[[/strickethrough]]								
[[/strickethrough]]													
15 11.5 -31.2 not in a.G.c.]				-30 12099	15 10.0 -30 59	8.3]							
15 14.0 -31.5 not in a.G.c.]				-31 11877	15 12.4 -31 16	8.5]							
15 16.2 -31.2 not in a.G.c.]				-31 11895	15 14.4 -31 5	8.7]							
15 17.5 -31.5]				-31 11915	15 15.7 -31 21	8.4]							
15 18.5 -31.5]				-31 11932	15 17.0 -31 18	8.6]	(not 11931)						
15 22.6 -31.2 20954	15 22.5 31 7	7.0]											
15 31.0 -31.0 not in a.G.c.]				-31 12112	15 29.7 -31 6	7.5]							
15 33.5 -31.1]				-30 12423	15 32.2 -30 59	8.2]							
15 37.6 -31.4 21314	15 37.9 -31 17	7.0]											
14 57.6 -31.2 not in a.G.c.]													
15 3.6 -31.9 not in a.G.c.]				-31 11728	15 2.1 -31 40	7.9]							
15 13.2 -31.6 not in a.G.c.]				-31 11861	15 11.4 -31 26	9.2]							
15 13.5 -31.7 not in a.G.c.]				-31 11865	15 11.6 -31 34	8.4]							
15 16.3 -31.9 20810	15 15.9 -31 50	7.2]											
15 17.5 -32.0 20830	15 17.1 -31 58	8]											
15 19.4 -31.8 20865	15 18.8 -31 48	8]											
15 26.5 -31.6 not in a.G.c.]				-31 12033	15 24.9 -31 29	8.7]							
15 27.7 -31.7 not in a.G.c.]				-31 12047	15 26.0 -31 36	9.0]							
15 31.0 -31.9 not in a.G.c.]				-31 12108	15 29.5 -31 39	7.4]							
15 33.5 -31.7 not in a.G.c.]				-31 12150	15 31.8 -31 28	8.8]							
15 35.4 -31.8 not in a.G.c.]				-31 12177	15 34.0 -31 26	7.9]							
15 36.2 -32.0]				-31 12192	15 34.8 -31 47	7.3]							
14 56.8 -32.3 20392	14 56.8 -32 15	5.8]											
15 6.0 -32.6 not in a.G.c.]				-32 10658	15 4.2 -32 22	8.5]							
15 24.1 -32.0 not in a.G.c.]				-31 11999	15 22.7 -31 52	8.6]							
15 30.6 -32.4 not in a.G.c.]				mrs. F.]									
15 31.1 -32.3 not in a.G.c.]				-32 10944	15 29.7 -32 4	8.4]							
[[/table]]													

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November ~~23~~ 22, 1892
Plate 3448

[[table]]				
V	H	Cl	RemNo.	Kline Int
16.0	22.0	H	K=H 1	
16.0	22.8	H	N 1	
16.4	5.7	F	570 K=H 1	
16.3	8.7	a	N 3	
16.7	11.3	F	571 K=H 1	
16.2	12.4	E	K=H 1	
16.0	14.1	F	572 K=H 2	
16.5	16.5	A	N 1	
16.1	19.0	A	N 3	
16.9	19.2	A	N 1	
16.7	19.9	A	N 2	
16.5	20.8	A	N 3	
16.0	21.1	A	N 2	
16.4	22.3	A	K=H 1	
17.6	10.6	G	K=H 2	
17.1	11.2	H	N 1	
17.4	11.5	F	573 K=H 1	
17.4	17.4	a	N 3	
17.4	18.5	G	K=H 2	
17.8	18.7	a	K=H 3	
17.3	23.8	F	574 K=H 1	
18.3	6.2	F	575 K=H 1	
18.1	9.8	F	576 K=H 1	
18.3	13.8	a	N 2	
18.6	15.1	a	N 2	
19.0	19.6	a	N 1	
19.3	6.7	a	K=H 2	
20.0	7.3	a	N 1	
[[/table]]				
1 5				

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]

R.A. 1900|Dec. 1900|No A.G.C|R.A. 1900|Dec. 1900|Magn|No
C.D.M.|R.A. | Dec.|Magn.]

15 32.7 -32.6 Not in A.G.C	-32 10965 15 31.1 -32 24 8.6
15 34.5 -32.6 Not in A.G.C	[Mrs. F.]
14 54.0 -32.6 20326 14 53.9 -32 26 8.5	
15 1.4 -32.7 20495 15 1.0 -32 32 7.4	
15 7.7 -32.9 Not in A.G.C	-32 10676 [[strikethrough]] 7
[[strikethrough]] 15 5.7 -32 40 8.5	
15 10.5 -32.6 Not in A.G.C	-32 10698 15 8.5 -32 25 8.7
15 14.3 -32.6 Not in A.G.C	-32 10738 15 12.3 -32 24 7.6
15 19.6 -32.8 Not in A.G.C	-32 10792 15 18.3 -32 36 8.9
15 25.5 -32.6 21024 15 25.6 -32 32 6.7	
15 26.0 -33.0 Not in A.G.C	-32 10873 15 24.5 -32 51 8.3
15 27.9 -32.9 21074 15 27.9 -32 50 7.0	
15 29.8 -32.8 21122 15 30.0 -32 45 6.6	
15 30.8 -32.6 Not in A.G.C	-32 10942 15 29.1 -32 24 8.4
15 33.5 -32.6 Not in A.G.C	-32 10974 15 31.8 -32 34 8.4
15 6.0 -33.3 20584 15 5.5 -33 16 7.2	
15 7.4 -33.0 Not in A.G.C	-32 10672 15 5.4 -32 51 8.1
15 8.0 -33.3 20628 15 7.6 -33 9 9 -33 10393 15 6.1 -33 3 8.6	
15 21.5 -33.3 20930 15 21.8 -33 11 8	
15 24.3 -33.3 20993 15 24.4 -33 14 8	
15 24.9 -33.4 21011 15 25.0 -33 28 7.0	
15 37.5 -33.3 Not in A.G.C	-33 10666 ^[[10664]] Mrs f.
14 55.0 -33.5 20346 14 54.9 -33 26 7.8	
15 4.0 -33.5 Not in A.g.c	-33 10350 15 2.0 -33 20 8.4
15 13.4 -33.8 20745 15 13.2 -33 40 8.5	
15 16.4 -33.9 20815 15 16.2 -33 48 8	
15 26.6 -34.1 Not in A.G.C	-33 10590 15 25.7 -33 56 8.1
14 55.6 -33.9 20361 14 55.7 -33 58 6.6	
14 55.8 -34.5 Not in A.G.C	Mrs. F.

[[/table]]

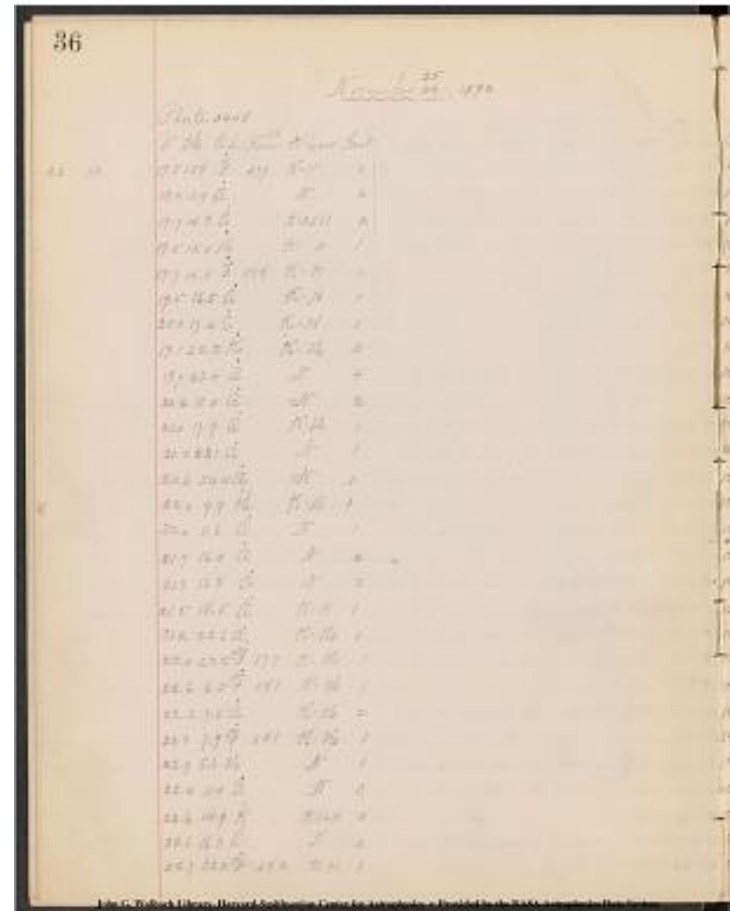
35

R.A. 1900	Dec. 1900	No A.G.C	R.A. 1900	Dec. 1900	Magn	No
15 32.7	-32.6	Not in A.G.C				
15 34.5	-32.6	Not in A.G.C				
14 54.0	-32.6	20326	14 53.9	-32 26	8.5	
15 1.4	-32.7	20495	15 1.0	-32 32	7.4	
15 7.7	-32.9	Not in A.G.C				
15 5.7	-32.40					
15 10.5	-32.6	Not in A.G.C				
15 14.3	-32.6	Not in A.G.C				
15 19.6	-32.8	Not in A.G.C				
15 25.5	-32.6	21024	15 25.6	-32 32	6.7	
15 26.0	-33.0	Not in A.G.C				
15 27.9	-32.9	21074	15 27.9	-32 50	7.0	
15 29.8	-32.8	21122	15 30.0	-32 45	6.6	
15 30.8	-32.6	Not in A.G.C				
15 33.5	-32.6	Not in A.G.C				
15 6.0	-33.3	20584	15 5.5	-33 16	7.2	
15 7.4	-33.0	Not in A.G.C				
15 8.0	-33.3	20628	15 7.6	-33 9	9	
15 21.5	-33.3	20930	15 21.8	-33 11	8	
15 24.3	-33.3	20993	15 24.4	-33 14	8	
15 24.9	-33.4	21011	15 25.0	-33 28	7.0	
15 37.5	-33.3	Not in A.G.C				
14 55.0	-33.5	20346	14 54.9	-33 26	7.8	
15 4.0	-33.5	Not in A.g.c				
15 13.4	-33.8	20745	15 13.2	-33 40	8.5	
15 16.4	-33.9	20815	15 16.2	-33 48	8	
15 26.6	-34.1	Not in A.G.C				
14 55.6	-33.9	20361	14 55.7	-33 58	6.6	
14 55.8	-34.5	Not in A.G.C				

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November ~~[[strickethrough]] 26[[/strickethrough]]~~ 25, 1892
Plate 3448

[[table]]				
V	H	Cl	Rem No	K line Int
23	10	19.8	10.8	F 577 K=H 1
19.4	12.9	A		N 2
19.9	14.2	A		K=0.5H 2
19.5	15.0	H		K=H 1
19.7	15.5	F	578	K=H 1
19.5	16.5	A		K=H 1
20.0	17.4	E		K=H 1
19.1	22.2	K		K=H 3
19.7	23.4	A		N 4
20.2	11.0	A		N 2
21.0	17.9	A		K=H 1
20.2	23.1	A		N 1
20.6	24.4	A		N 1
22.0	9.9	H		K=H 1
22.0	11.6	A		N 1
21.9	16.0	A		N 2
21.7	16.8	A		N 2
21.5	18.5	A		K=H 1
21.2	22.6	A		K=H 1
22.0	23.2	F	579	K=H 1
22.6	6.0	F	580	K=H 1
22.3	7.5	A		K=H 2
23.0	7.9	F	581	K=H 1
22.9	8.6	H		N 1
22.4	11.4	A		N 3
22.6	14.9	K		K=1.2H 3
22.6	16.3	A		N 2
22.7	22.2	F	582	K=H 1
[[/table]]				



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[[10 Column Table]]

R.A.1900|Dec.1900|No A.G.C.|R.a.1900|Dec.1900|Magn.|No
C.D.M.|R.A.|Dec.|Magn.]

15 5.5	20706	9	7	34.5	20585	15	5.5	5.5	5.5
34° 23'	20706	9	7	34.5	20585	15	5.5	5.5	5.5
15 10.8	20706	15	11.0	34 13.8					
15 13.9	20759	15	14.0	34 34.8					
15 16.0	20814	15	16.2	34 21.7.5					
15 17.1	20831	15	17.3	34 24.8.2					
15 20.0	20888	15	19.8	34 16.8.8					
15 21.5	34.6								
15 33.3	21207	15	33.4	34 5.5.1					
15 36.2	21274	15	36.3	34 23.5.1					
15 6.0	34.6			34 10242	15 4.5	34 29.7.6			
15 23.0	35.2			Not in A.G.C.	34 10398	15 21.5	34 58.7.9		
15 35.2	34.7			Not in A.G.C.	34 10487	15 33.9	34 29.8.0		
15 38.4	21329	15	38.7	34 47.7.5					
15 3.6	20541	15	3.4	35 29.7.5					
15 7.5	35.5			35 10127	15 5.9	35 22.8.0			
15 18.3	35.6	20851	15	18.4	35 34.6.9				
15 20.4	35.4	20903	15	20.4	35 25.8.5				
15 25.2	35.3	21003	15	24.7	35 17.8.2				
15 34.2	35.2	21231	15	34.4	35 6.7.2				
15 36.0	35.5			35 10450	15 34.5	35 21.7.7			
14 53.8	35.8	20320	14	53.8	35 38.8.2				
14 57.5	35.6	20407	14	57.4	35 33.6.7				
14 58.1	36.0	20427	14	5.8	2	35 54.8			
15 0.0	35.9	20469	15	0.0	35 53.6.8				
15 6.8	35.8	20604	15	6.9	35 43.6.4				
15 15.5	35.9	20793	15	15.5	35 54.3.6				
15 19.2	35.9	20869	15	19.1	35 50.7.8				
15 33.6	35.9	21210	15	33.5	35 51.8.8				

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November ~~26~~ 25, 1892

Plate 3448

[[table]]

V|H|Cl|No Rem.|K line|Int.]

23.2	9.7	H	K=H 1
23.6	13.9	a	K=H 1
23.4	15.1	F583	K=H 1
23.8	15.4	a	N 4
23.4	16.6	H	K=H 1
23.7	17.0	a	N 2

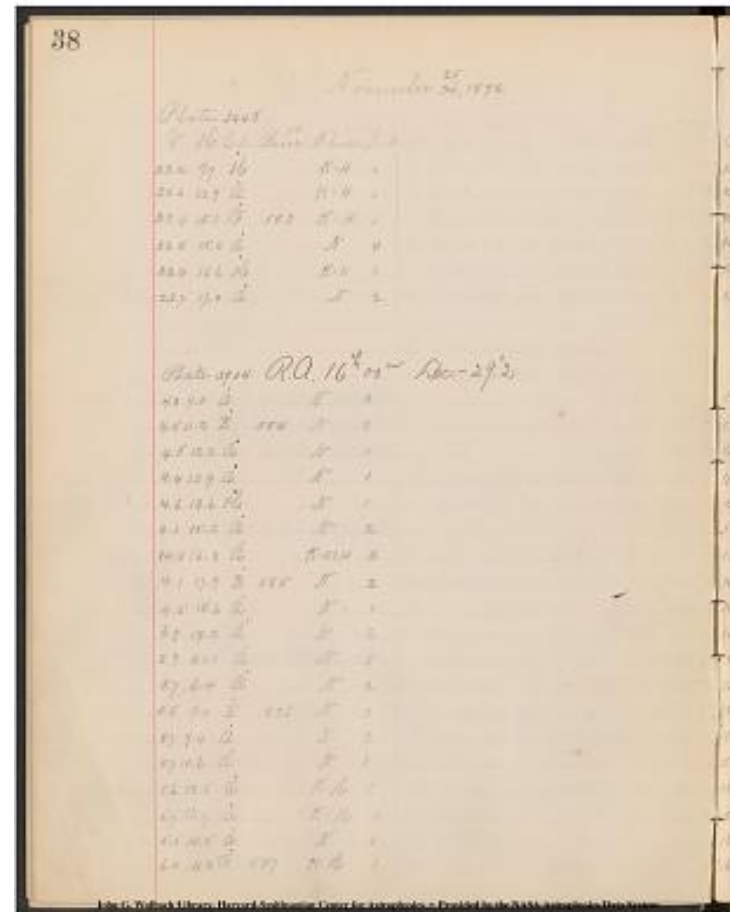
[[/table]]

Plate 3904 R.A. 16^h 00^m Dec. -29°.2

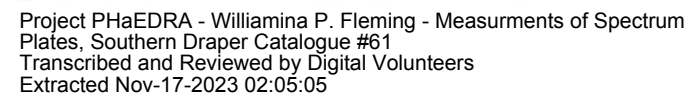
[[table]]

4.3	9.0	a	N 3
4.8	11.2	B 584	N 3
4.8	12.2	a	N 1
4.4	12.9	a	N 1
4.6	13.6	H	N 1
4.1	15.2	a	N 2
4.1	17.9	B 585	 N 2
4.1	17.9	B 585	N 2
4.5	18.6	a	N 1
3.9	19.2	a	N 2
3.9	21.1	a	N 3
5.7	6.4	a	N 2
5.8	9.0	B 586	N 3
5.7	9.4	a	N 2
5.7	10.6	a	N 1
5.6	12.5	a	K=H 1
5.7	13.7	a	K=H 1
5.5	15.5	a	N 1
6.0	16.3	F 587	K=H 1

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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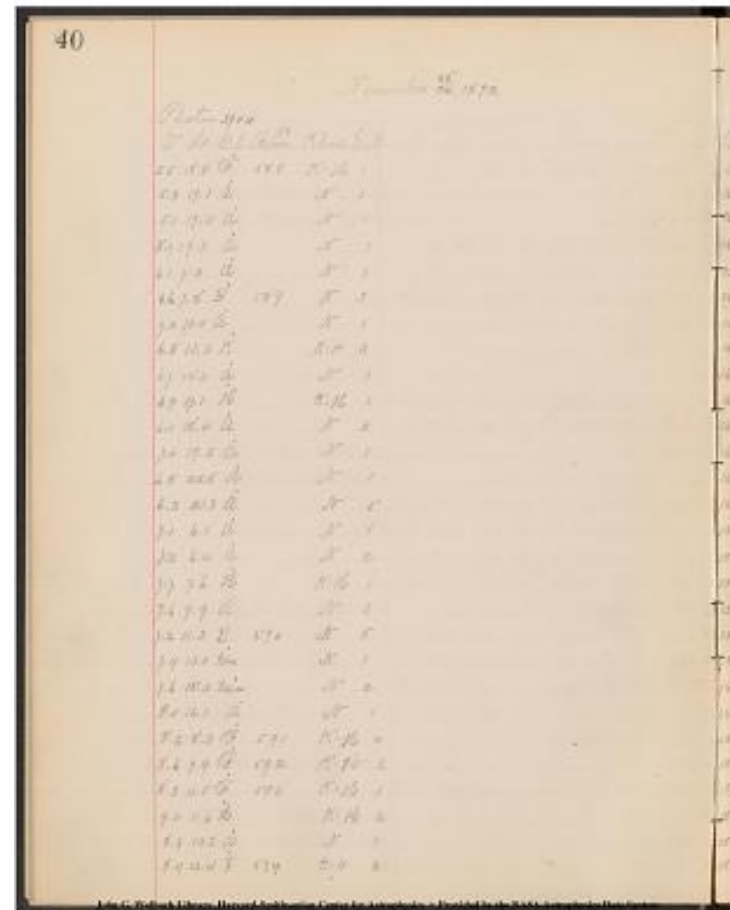
November 25 ~~26~~, 1892

Plate 3904

[[6 columned table]]

V	H	Cl.	No.	Rem.	Kline	Int.
5.5	18.8	F	588		K = H	1
5.3	19.1	A		N	1	
5.1	19.3	A		N	1	
5.7	19.3	A		N	1	
6.1	7.3	A		N	1	
6.6	7.8	B	589		N	3
7.0	10.0	A		N	1	
6.8	13.3	K		K = H	3	
6.7	15.0	A		N	1	
6.9	17.1	H		K = H	1	
6.1	18.4	A		N	3	
7.0	19.3	A		N	1	
6.8	20.5	A		N	1	
6.3	21.3	A		N	5	
7.1	6.1	A		N	1	
7.2	6.4	A		N	2	
7.7	7.6	H		K = H	1	
7.6	9.9	A		N	3	
7.2	11.3	B	590		N	5
7.4	13.0	Ma		N	1	
7.6	15.3	Ma		N	2	
8.0	16.1	A		N	1	
9.2	8.3	F	591		K = H	2
8.6	9.9	F	592		K = H	2
8.3	11.5	F	593		K = H	1
9.0	11.6	H		K = H	2	
8.3	13.3	A		N	1	
8.4	13.4	F	594		K = H	2

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1900 R.A. 1900 Dec. No. A.G.C. 1900 R.A. 1900 Dec. Magn. No. C.D.M. R.A. Dec. Magn.										
16 9.7	-24.9									
16	10.0									
	10.3									
	24.8									
16 10.	3									
	5									
	24.8									
16	11.0									
	10.7									
	25.0									
15 44.0	-25.3									
15 45.0	-25.5	21469	15 45.0	-25 27	5.3					
15 49.8	-25.7	21579	15 50.0	-25 38	8.5					
15 57.2	-25.7	21748	15 57.3	-25 35	5.7					
16 1.3	-25.6									
16 5.7	-25.6	21945	16 5.8	-25 37	8					
16 8.8	-25.3	22004	16 8.8	-25 13	6.4					
16 11.0	-25.7									
16 13.6	-25.6	22116	16 13.3	-25 31	8.8					
16 15.3	-25.4	22158	16 15.1	-25 21	3.4					
15 41.3	-25.7	21384	15 41.4	-25 34	8.5					
15 41.8	-25.8	21394	15 41.9	-25 41	7.3					
15 45.0	-26.0	21455	15 44.6	-25 59	7.3					
15 49.2	-25.9	21567	15 49.5	-25 59	6.3					
15 52.6	-25.8	21638	15 52.8	-25 49	3.4					
15 56.6	-25.9	21730	15 56.7	-25 58	8					
16 2.0	-26.1	21860	16 2.0	-26 3	6.0					
16 4.0	-26.2									
15 46.6	-26.3	21490	15 46.0	-26 14	7.8					
15 49.6	-26.5	21570	15 49.6	-26 27	7.5					
15 53.3	-26.4									
15 53.5	-26.8	21654	15 53.4	-26 43	7.5					
15 57.2	-26.5	21744	15 57.2	-26 26	7.5					
15 57.4										

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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Plate 3904

[[table]]

V | H | Cl. | No. Rem. | K line | Int. |

9.0	14.1	E		K=H	1
9.0	14.3	F	595	K=H	1
8.9	16.3	A		N	3
8.5	23.3	F	596	K=H	1
9.4	8.6	A		K=H	1
9.8	9.4	B	597	N	3
9.2	12.4	F	598	K=H	2
9.3	15.0	A		N	1
9.3	16.9	B	599	N	3
9.9	17.7	F	600	K=H	1
9.5	18.6	F	601	K=H	1
9.6	22.9	A		N	2
9.8	23.9	A		N	1
10.4	6.8	A		N	1
9.4	6.2	H		N	1
10.3	10.7	A		K=H	2
10.5	15.0	A		K=H	1
10.4	15.3	H		N	1
10.1	19.0	F	602	K=H	1
11.3	5.8	A		K=0.5H	3
11.8	10.0	F	603	K=H	1
10.9	19.2	B	604	N	4
11.8	17.2	A		N	3
11.3	17.4	E		K=H	1
11.5	17.9	A		N	1
11.1	19.8	A		N	2
11.7	20.2	F	605	K=H	1
12.7	6.8	F	606	K=H	1

[[/table]]

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November ~~26~~ 25, 1892

Plate 3904

[[table]]

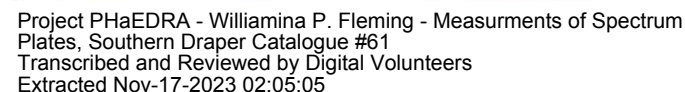
V | H | Cl. | No. Rem. | K line | Int. |

12.5	7.6	A	N	1	
12.8	13.9	H	N	1	
12.2	19.8	A	K=0.1H	3	
13.3	10.6	B	609	N	4
13.2	13.1	F	K=H	2	
13.7	16.6	G	K=H	3	
13.1	17.7	F	608	K=H	1
14.0	23.0	A	N	2	
13.8	23.8	A	N	2	
14.1	7.1	F	609	K=H	1
14.1	8.0	A	K=H	1	
14.8	8.6	F	K=H	2	
14.9	8.9	E	K=H	1	
14.9	10.8	F	610	K=H	2
14.2	11.8	E	K=H	2	
15.0	11.8	A	K=0.5H	2	
14.3	17.5	A	K=H	1	
14.5	19.1	A	N	2	
14.1	20.7	A	N	2	
14.5	2	[[/strikethrough]]	0	[[/strikethrough]]	2.6 G K=H 3
15.2	5.8	H	K=H	2	
15.5	7.3	A	N	1	
15.3	8.1	A	N	1	
15.9	9.6	E	K=H	1	
16.0	15.1	H	N	1	
16.0	15.2	A	N	1	
15.5	15.7	E	K=H	1	

[[/table]]

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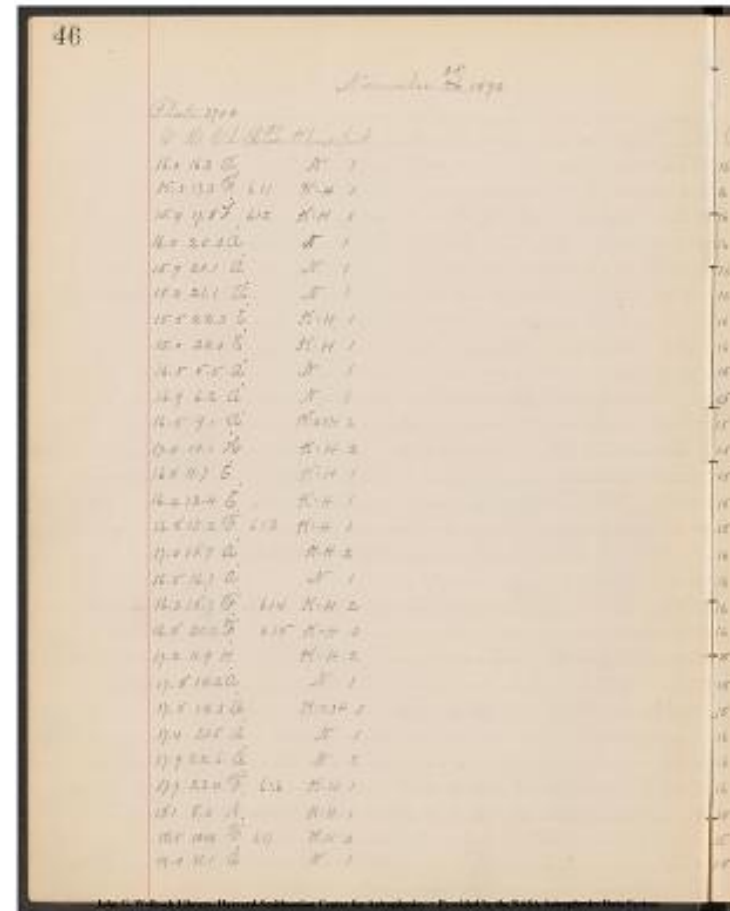


November 25 ~~26~~, 1892

Plate 3904

[[6 columned table]]

V	H	Cl.	No Rem.	Kline	Int.
16.0	16.3	A	N	1	
15.3	17.3	F	611	K=H	1
15.4	17.8	F	612	K=H	1
16.0	20.0	A	N	1	
15.9	20.1	A	N	1	
15.3	21.1	A	N	1	
15.5	22.3	E	K=H	1	
15.0	23.0	E	N	1	
16.5	5.5	A	N	1	
16.9	6.2	A	N	1	
16.5	9.1	A	K=0.5H	2	
17.0	10.1	H	K=H	2	
16.0	11.7	E	K=H	1	
16.2	12.4	E	K=H	1	
16.8	13.2	F	613	K=H	1
17.0	15.9	A	K=H	2	
16.5	16.7	A	N	1	
16.2	18.7	F	614	K=H	2
16.8	20.2	F	615	K=H	3
17.2	11.9	H	K=H	2	
17.8	14.2	A	N	1	
17.8	14.3	A	K=0.3H	3	
17.4	21.5	A	N	1	
17.9	22.6	A	N	2	
17.7	23.0	F	616	K=H	1
18.1	8.3	A	K=H	1	
18.5	10.4	F	617	K=H	3
19.0	11.1	A	N	1	

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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]
 R.A.1900|Dec.1900|A.G.C.No|R.A.1900|Dec.1900|Magn.|C.D.M.|R.A.|D
 ec.|Magn.]

16 4.2 -30.4 Not in A.G.C.	-30 12902 16 2.6 -30 12 8.3
16 6.6 -30.0 Not in A.G.C.	
16 8.0 -30.0 21973 16 7.6 -29 57 7.8	
16 12.2 -30.4 Not in A.G.C.	
16 12.7 -30.3 Not in A.G.C.	
16 14.6 -30.0 Not in A.G.C.	
16 17.7 -30.0 Not in A.G.C.	
16 19.5 -29.8 22241 16 19.6 -29 42 7.8	
15 38.4 -30.6 21326 15 38.5 -30 22 7.6	
15 40.5 -30.7 Not in A.G.C.	-30 12530 15 38.9 -30 30 8.5
15 47.3 -30.6 21506 15 47.0 -30 29 7.5	
15 49.2 -30.9 21557 15 49.3 -30 48 6.7	
15 53.0 -30.2 21629 15 52.6 -30 13 9	
15 54.9 -30.3 Not in A.G.C.	
15 56.3 -30.8 21727 15 56.6 -30 39 7.5	
16 3.4 -30.9 21877 16 3.2 -30 47 7.2	
16 5.4 -30.6 Not in A.G.C.	
16 9.6 -30.5 22022 16 9.8 -30 22 8.2	
16 13.2 -30.7 22106 16 13.2 -30 40 7.2	
15 53.6 -30.9 21664 15 53.6 -30 52 6.9	
15 58.5 -31.2 Not in A.G.C.	-31 123315 57.3 -31 7 8.5
15 59.1 -31.2 21788 15 59.1 -31 11 6.8 -31 12535 15 57.5 -31 7 6.8	
16 16.1 -31.1 22173 16 16.0 -31 11 8.5	
16 18.6 -31.3 22229 16 18.7 -31 12 7.5	
16 19.8 -31.3 Not in A.G.C.	
15 45.1 -31.4 Not in A.G.C.	-31 12337 15 43.4 -31 7 8.3
15 49.9 -31.5 21576 15 50.0 -31 29 6.7	
	-31 12423 15 50.0 -31 36 9.0
15 51.4 -31.8 Not in A.G.C.	-31 12424 15 50.0 -31 36 9.0

[[/table]]

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Handwritten notes at top: R.A. 1900, Dec. 1900, A.G.C. No, R.A. 1900, Dec. 1900, Magn., C.D.M., R.A., Dec.

16 4.2 -30.4 Not in A.G.C.	-30 12902 16 2.6 -30 12 8.3
16 6.6 -30.0 Not in A.G.C.	
16 8.0 -30.0 21973 16 7.6 -29 57 7.8	
16 12.2 -30.4 Not in A.G.C.	
16 12.7 -30.3 Not in A.G.C.	
16 14.6 -30.0 Not in A.G.C.	
16 17.7 -30.0 Not in A.G.C.	
16 19.5 -29.8 22241 16 19.6 -29 42 7.8	
15 38.4 -30.6 21326 15 38.5 -30 22 7.6	
15 40.5 -30.7 Not in A.G.C.	-30 12530 15 38.9 -30 30 8.5
15 47.3 -30.6 21506 15 47.0 -30 29 7.5	
15 49.2 -30.9 21557 15 49.3 -30 48 6.7	
15 53.0 -30.2 21629 15 52.6 -30 13 9	
15 54.9 -30.3 Not in A.G.C.	
15 56.3 -30.8 21727 15 56.6 -30 39 7.5	
16 3.4 -30.9 21877 16 3.2 -30 47 7.2	
16 5.4 -30.6 Not in A.G.C.	
16 9.6 -30.5 22022 16 9.8 -30 22 8.2	
16 13.2 -30.7 22106 16 13.2 -30 40 7.2	
15 53.6 -30.9 21664 15 53.6 -30 52 6.9	
15 58.5 -31.2 Not in A.G.C.	-31 123315 57.3 -31 7 8.5
15 59.1 -31.2 21788 15 59.1 -31 11 6.8 -31 12535 15 57.5 -31 7 6.8	
16 16.1 -31.1 22173 16 16.0 -31 11 8.5	
16 18.6 -31.3 22229 16 18.7 -31 12 7.5	
16 19.8 -31.3 Not in A.G.C.	
15 45.1 -31.4 Not in A.G.C.	-31 12337 15 43.4 -31 7 8.3
15 49.9 -31.5 21576 15 50.0 -31 29 6.7	
	-31 12423 15 50.0 -31 36 9.0
15 51.4 -31.8 Not in A.G.C.	-31 12424 15 50.0 -31 36 9.0

Handwritten notes at bottom: R.A. 1900, Dec. 1900, A.G.C. No, R.A. 1900, Dec. 1900, Magn., C.D.M., R.A., Dec.

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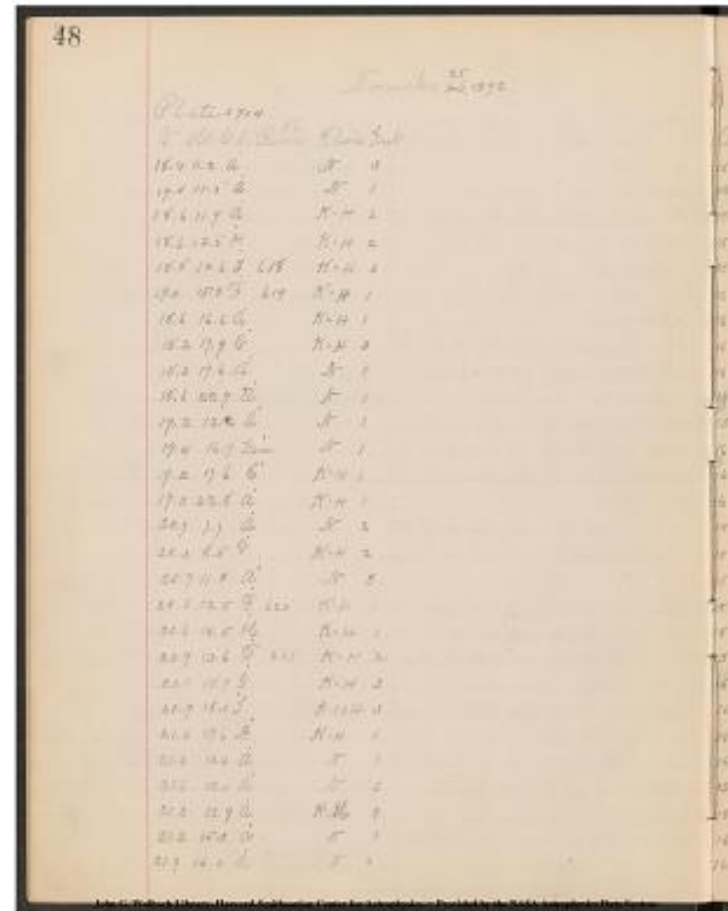
November ~~26~~ 25, 1892
Plate 3904

[[table]]

V | H | Cl. | No. Rem. | K line | Int. |

18.4	11.2	A		N 3
19.0	11.5	A		N 1
18.6	11.9	A		K=H 2
18.6	12.5	H		K=H 2
18.8	13.6	F	618	K=H 3
19.0	15.8	F	619	K=H 1
18.6	16.6	A		K=H 1
18.2	17.9	G		K=H 3
18.3	19.6	A		N 1
18.6	22.9	A		N 1
19.2	12.2	A		N 1
19.4	16.9	Ma		N 1
19.2	17.6	E		K=H 1
19.3	22.8	A		K=H 1
20.7	7.7	A		N 2
20.3	8.5	G		K=H 2
20.9	11.8	A		N 3
20.3	12.5	F	620	K=H 1
20.6	14.5	F	620	K=H 1
20.9	13.6	F	621	K=H 2
20.1	15.9	G		K=H 3
20.9	18.0	F		K=1.2H 3
21.0	19.6	A		K=H 1
21.3	10.4	A		N 1
21.6	12.0	A		N 3
21.3	13.9	A		K=H 3
21.2	15.0	A		N 1
21.9	16.0	A		N 3

[[/table]]



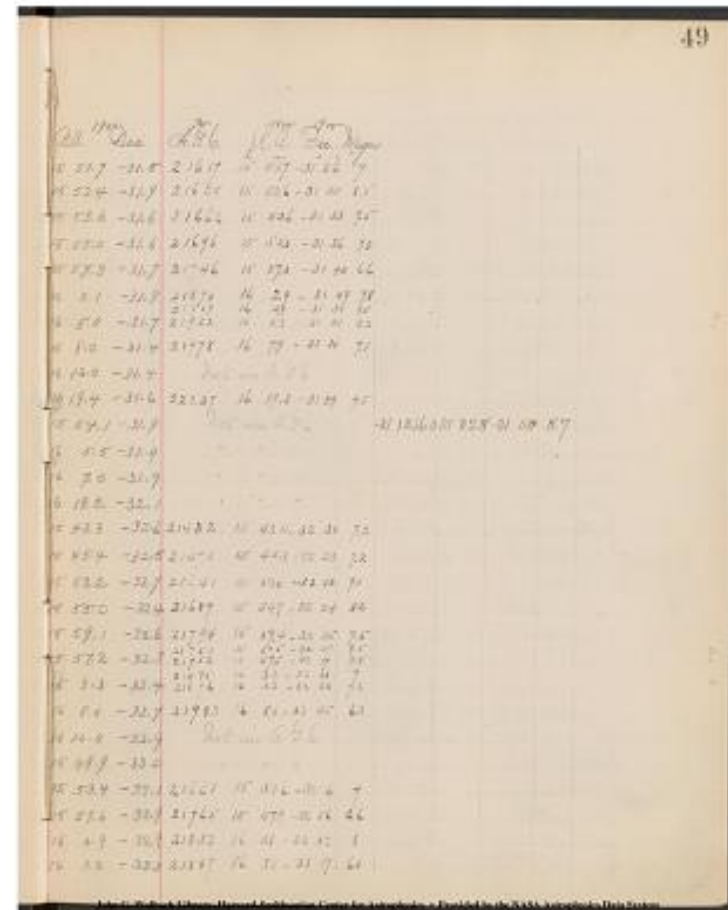
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[[10 Columned Table]]

R.A. 1900|Dec.|No. A.G.C.|R.A. 1900|Dec. 1900|Magn. | | | |

15 51.7	-31.5	21617	15 51.7	31 26	7				
15 52.4	-31.9	21628	15 52.6	31 45	8.5				
15 53.6	-31.6	21662	15 53.6	31 33	7.5				
15 55.0	-31.6	21696	15 55.0	31 36	7.0				
15 57.3	-31.7	21746	15 53.7	31 43	6.6				
16 3.1	-31.9	21870	16 2.9	31 49	7.8				
		21917	16 4.9	31 31	7.8				
16 5.0	-31.7	21922	16 5.2	31 31	8.2				
16 8.0	-31.4	21978	16 7.9	31 24	7.1				
16 12.0	-31.4	Not in A.G.C.							
16 19.4	-31.6	22237	16 19.3	31 29	7.5				
15 54.1	-31.9	Not in A.G.C.							
16 5.5	-31.9	Not in A.G.C.							
16 7.0	-31.9	Not in A.G.C.							
16 19.2	-32.1	Not in A.G.C.							
15 43.3	-32.6	21432	15 43.4	32 30	7.2				
15 45.4	-32.5	21473	15 45.3	32 23	7.2				
15 53.2	-32.7	21641	15 53.0	32 43	7.0				
15 55.0	-32.4	21689	15 54.7	32 24	8.2				
15 59.1	-32.6	21794	15 59.4	32 35	7.5				
		21751	15 57.5	32 47	7.5				
15 57.2	-32.8	21752	15 57.5	32 47	7.8				
		21875	16 3.2	32 23	7				
[[[strikethrough]] 5 [[/strikethrough]] 16 3.3]-32.4 21876 16 3.2]-32									
23 7.2									
16 8.0	-32.7	21983	16 8.0	32 45	6.3				
16 12.0	-32.9	Not in A.G.C.							
15 49.9	-33.0	Not in A.G.C.							
15 53.4	-33.1	21661	15 53.6	33 6	7				
15 57.6	-32.9	21765	15 57.9	32 56	6.6				
16 0.9	-32.9	21832	16 0.8	32 52	8				
16 3.2	-33.3	21887	16 3.5	33 17	6.0				

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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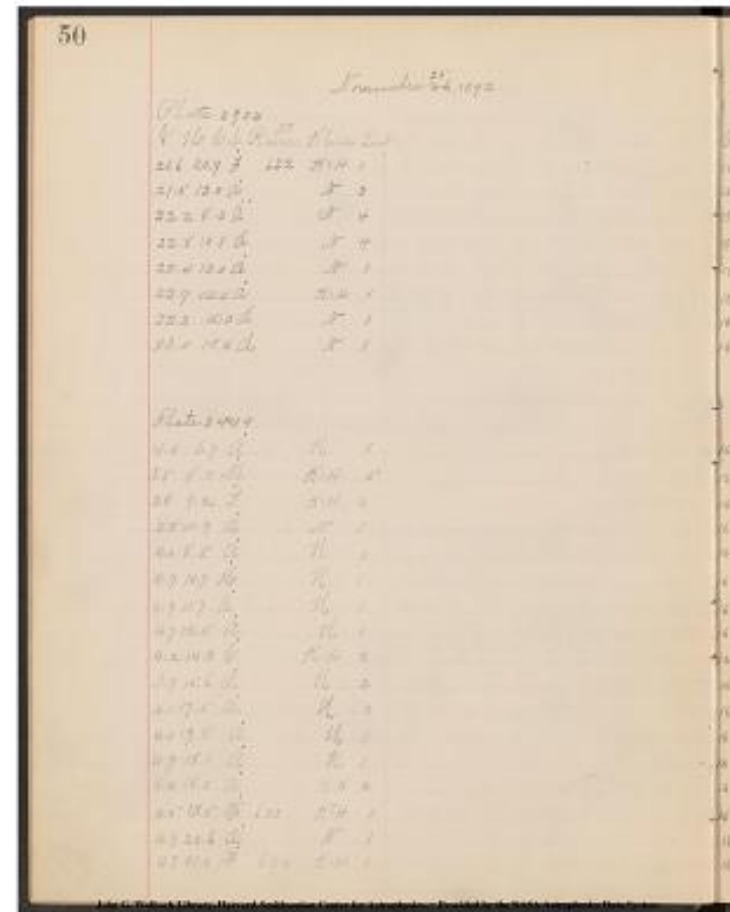
November ~~26~~ 25, 1892
Plate 3904

[[table]]					
V	H	Cl.	No.	Rem.	K line Int.
21.6	20.9	F	622		K=H 1
21.5	12.0	A		N	3
22.2	8.3	A		N	4
22.8	10.8	A		N	4
22.4	13.0	A		N	1
22.9	14.4	A		K=H	1
22.3	15.0	A		N	1
23.0	15.4	A		N	1

Plate 3449

4.0	6.7	A		H	1
3.5	8.3	Mb		K=H	5
3.8	9.2	F		K=H	2
3.8	10.9	A		H	1
4.0	8.5	A		H	1
4.9	10.7	H		H	1
4.9	11.7	A		H	1
4.7	12.5	A		H	1
4.2	14.8	G		K=H	1
3.9	15.6	A		H	2
4.1	17.5	A		H	2
4.0	17.8	A		H	1
4.9	18.1	A		H	1
4.3	18.3	A		K=H	2
4.5	18.5	F	623	K=H	1
4.7	20.6	A		N	1
4.9	21.3	F	624	K=H	1

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]									
R.A.1900 Dec.1900 A.G.C.No R.A.1900 Dec.1900 Magn. C.D.M. R.A. D									
ec. Magn									
16 14.9	-33.1	22153	16 15.0	-33 4	7.2				
16 53.4	-33.1	21661	15 53.6	-33 6	7				
16 44.3	-33.4	21454	15 44.6	-33 20	7.2				
		21586	15 50.5	-33 40	5.6				
15 50.6	-33.7	21587	15 50.5	-33 40	6.2				
15 56.0	-33.4	Not in A.G.C.		-33 10881	15 54.4	-33 18	8.3		
15 59.0	-33.8	Not in A.G.C.		-33 10915	15 57.5	-33 39	7.8		
16 1.0	-33.5	21833	16 0.9	-33 26	8				
		-33 10942	16 0.2	-33 40	9.2				
16 1.8	-33.8	Not in A.G.C.		-33 10943	16 0.3	-33 42	8.5		
16 19.7	-26.5	22256	16 19.7	-26 21	8.2				
16 23.1	-26.3	22314	16 23.2	-26 13	1.4				
16 25.3	-26.4	22353	16 25.2	-26 19	6.5				
16 29.2	-26.4	Not in A.G.C.		-26 11412	16 27.6	-26 12.4	8.4		
ZC]									
16 23.8	-26.5	Not in A.G.C.		-26 11363	16 22.3	-26 18.8	8.5		
16 28.9	-27.0	22432	16 28.5	-26 54	8.5				
16 31.0	-27.0	Not in A.G.C.		-26 11427	16 29.2	-26 49.1	8.8		
16 32.7	-26.9	Not in A.G.C.		-26 11439	16 30.9	-26 44.4	8.3		
16 37.5	-26.6	22617	16 37.6	-26 37	6.9				
16 39.7	-26.5	22653	16 39.6	-26 28	7.2				
16 44.0	-26.6	Not in A.G.C.		-26 11585	16 42.5	-26 31.4	7.3		
16 44.5	-26.5	Not in A.G.C.		-26 11596	16 43.0	-26 24.2	8.4		
16 45.4	-27.0	22767	16 45.2	-26 57	9				
16 45.6	-26.6	22784	16 45.6	-26 42	8.2				
		22791	16 46.0	-26 45	9.2				
16 46.0	-26.7	22793	16 46.1	-26 51	8				
16 51.0	-26.7	Not in A.G.C.		-26 11696	16 49.2	-26 45.6	8.7		
16 52.5	-26.9	22972	16 52.3	-26 57	8.5				
[[/table]]									

51									
R.A. 1900 Dec. 1900 A.G.C. No R.A. 1900 Dec. 1900 Magn. C.D.M. R.A. D									
ec. Magn									
16 14.9	-33.1	22153	16 15.0	-33 4	7.2				
16 53.4	-33.1	21661	15 53.6	-33 6	7				
16 44.3	-33.4	21454	15 44.6	-33 20	7.2				
		21586	15 50.5	-33 40	5.6				
15 50.6	-33.7	21587	15 50.5	-33 40	6.2				
15 56.0	-33.4	Not in A.G.C.		-33 10881	15 54.4	-33 18	8.3		
15 59.0	-33.8	Not in A.G.C.		-33 10915	15 57.5	-33 39	7.8		
16 1.0	-33.5	21833	16 0.9	-33 26	8				
		-33 10942	16 0.2	-33 40	9.2				
16 1.8	-33.8	Not in A.G.C.		-33 10943	16 0.3	-33 42	8.5		
16 19.7	-26.5	22256	16 19.7	-26 21	8.2				
16 23.1	-26.3	22314	16 23.2	-26 13	1.4				
16 25.3	-26.4	22353	16 25.2	-26 19	6.5				
16 29.2	-26.4	Not in A.G.C.		-26 11412	16 27.6	-26 12.4	8.4		
ZC]									
16 23.8	-26.5	Not in A.G.C.		-26 11363	16 22.3	-26 18.8	8.5		
16 28.9	-27.0	22432	16 28.5	-26 54	8.5				
16 31.0	-27.0	Not in A.G.C.		-26 11427	16 29.2	-26 49.1	8.8		
16 32.7	-26.9	Not in A.G.C.		-26 11439	16 30.9	-26 44.4	8.3		
16 37.5	-26.6	22617	16 37.6	-26 37	6.9				
16 39.7	-26.5	22653	16 39.6	-26 28	7.2				
16 44.0	-26.6	Not in A.G.C.		-26 11585	16 42.5	-26 31.4	7.3		
16 44.5	-26.5	Not in A.G.C.		-26 11596	16 43.0	-26 24.2	8.4		
16 45.4	-27.0	22767	16 45.2	-26 57	9				
16 45.6	-26.6	22784	16 45.6	-26 42	8.2				
		22791	16 46.0	-26 45	9.2				
16 46.0	-26.7	22793	16 46.1	-26 51	8				
16 51.0	-26.7	Not in A.G.C.		-26 11696	16 49.2	-26 45.6	8.7		
16 52.5	-26.9	22972	16 52.3	-26 57	8.5				
[[/table]]									

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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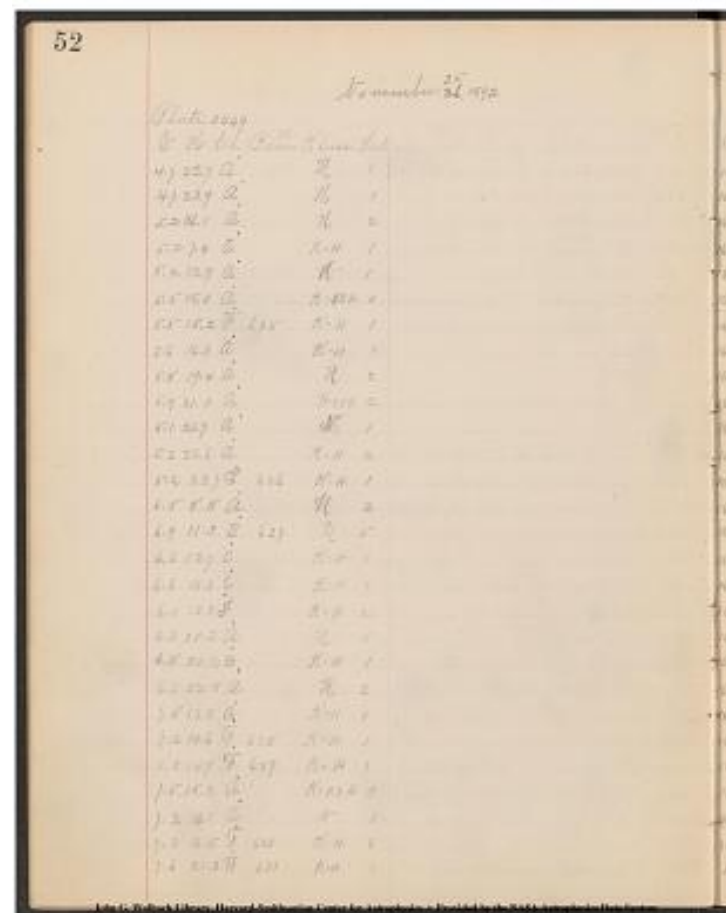
Plate 3449

[[6 columned table]]

V | H | Cl. | No Rem. | Kline | Int. |

4.7	22.7	A		H	1
4.7	23.9	A		H	1
5.2	x6.1	A		H	2
5.2	7.4	E		K = H	1
5.2	12.9	A		H	1
5.5	15.0	A		K = 0.3 H	3
5.5	15.2	F	625	K = H	1
5.6	16.0	A		K = H	1
5.8	19.4	A		H	2
5.9	21.0	A		K = 0.5 H	2
5.1	21.7	A		N	1
5.2	22.6	A		K = H	2
5.2	23.7	F	626	K = H	1
6.5	8.8	A		H	2
6.9	11.3	B	627	H	5
6.6	12.7	E		K = H	1
6.6	13.3	E		K = H	1
6.1	13.8	F		K = H	2
6.3	20.2	A		H	1
6.8	20.2	E		K = H	1
6.6	22.8	A		H	2
7.8	13.8	A		K = H	1
7.2	14.6	F	628	K = H	1
8.0	14.9	F	629	K = H	1
7.5	15.2	A		K = 0.3 H	3
7.2	16.1	A		N	1
7.3	16.5	F	630	K = H	1
7.6	21.3	F	631	K = H	1

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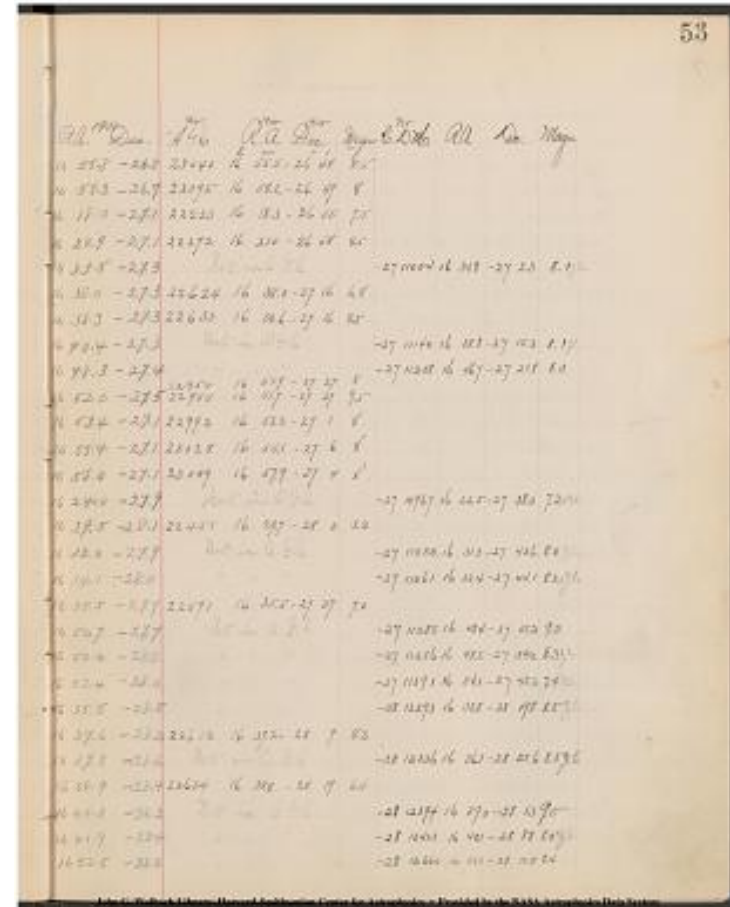
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
 Plates, Southern Draper Catalogue #61
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[[table]]

R.A.1900|Dec.|No. A.G.C.|R.A.1900|Dec.1900| |Magn.| No
C.D.M.|R.A.|Dec.|Magn.|

16 55.8	-26.8	23040	16 55.5	-26 48	8.5						
16 58.3	-26.7	23095	16 58.1	-26 47	8						
16 18.0	-27.1	22223	16 18.3	-26 55	7.5						
16 20.9	-27.1	22272	16 21.0	-26 58	8.5						
16 33.5	-27.3	Not in A.G.C.				-27 11054	16 31.8	-27 2.3	8.1	ZC	
16 38.0	-27.3	22624	16 38.0	-27 16	6.8						
16 38.3	-27.3	22633	16 38.6	-27 16	8.5						
16 40.4	-27.3	Not in A.G.C.				-27 11140	16 38.8	-27 15.3	8.1	ZC	
16 48.3	-27.4	Not in A.G.C.				-27 11258	16 46.7	-27 21.8	8.3		
		22954	16 51.7	-27 27	8						
16 52.0	-27.5	22955	16 51.7	-27 27	9.5						
16 53.4	-27.1	22992	16 53.2	-27 1	8						
16 55.4	-27.1	23028	16 55.1	-27 6	8						
16 58.0	-27.1	23089	16 57.9	-27 4	8						
16 24.0	-27.9	Not in A.G.C.				-27 109 67	16 22.5	-27 38.0	7.2	ZC	
16 29.5	-28.1	22451	16 29.7	-28 0	3.2						
16 33.0	-27.9	Not in A.G.C.				-27 11050	16 31.3	-27 43.6	8.0	ZC	
16 34.1	-28.0	Not in A.G.C.				-27 11061	16 32.4	-27 44.1	8.2	ZC	
16 35.5	-27.7	22571	16 35.5	-27 37	7.0						
16 50.7	-27.7	Not in A.G.C.				-27 11285	16 48.4	-27 35.2	9.3		
16 50.6	-28.0	Not in A.G.C.				-27 11286	16 48.5	-27 54.2	8.3	ZC	
16 52.4	-28.0	Not in A.G.C.				-27 11391	16 54.1	-27 45.2	7.4	GC	
16 35.5	-28.5	Not in A.G.C.				-28 12293	16 33.8	-27 19.8	8.5	ZC	
16 37.6	-28.2	22612	16 37.2	-28 7	8.2						
16 37.8	-28.6	Not in A.G.C.				-28 12336	16 36.1	-28 25.6	8.5	ZC	
16 38.9	-28.4	22634	16 38.8	-28 19	6.4						
16 40.8	-28.3	Not in A.G.C.				-28 12394	16 39.0	-28 1.3	9.5		
16 41.9	-28.4	Not in A.G.C.				-28 12413	16 40.1	-28 8.8	8.0		
16 52.5	-28.3	Not in A.G.C.				-28 12660	16 51.0	-28 15.5	8.4		

[[/table]]



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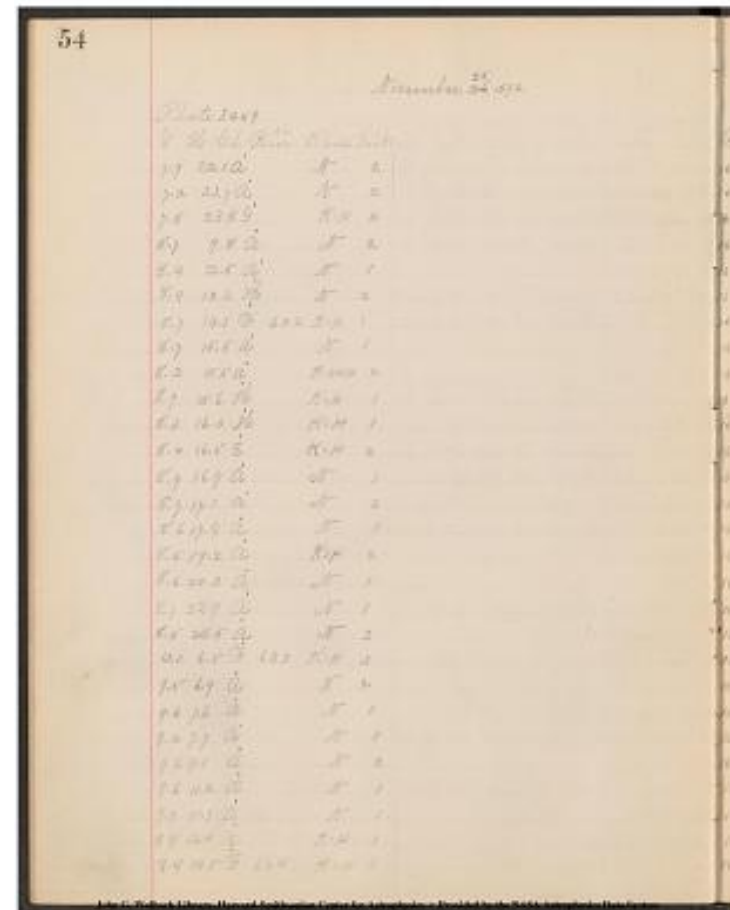
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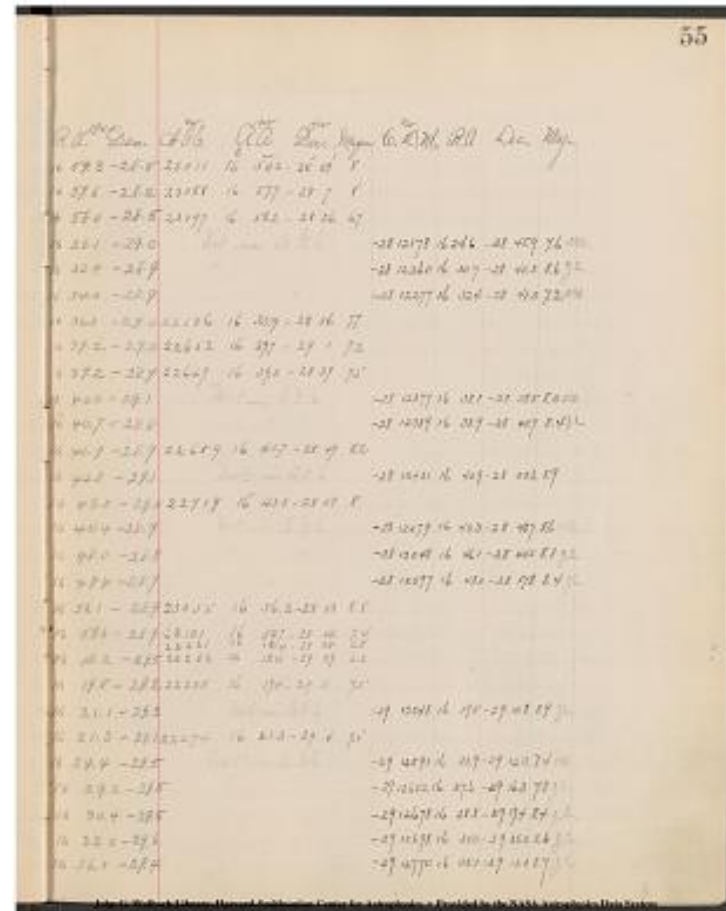
[[6 column table]]

V | H | Cl. | No. | Rem. | K line | Int. |

7.9	22.1	A		N	2	
7.2	23.7	A		N	2	
7.8	23.8	A		K=H	2	
8.7	9.8	A		N	2	
8.4	12.5	A		N	1	
8.4	13.2	H		N	2	
8.7	14.1	?	632	K=H	1	
8.7	15.5	A		N	1	
8.2	15.5	A		K=0.44	2	
8.9	15.6	H		K=H	1	
8.3	16.0	H		K=H	1	
8.4	16.5	E		K=H	2	
8.9	16.9	A		N	1	
8.7	17.1	A		N	2	
8.6	17.9	A		N	1	
8.5	19.2	A		K=H	2	
8.6	20.0	A		N	1	
8.7	22.9	A		N	1	
8.5	24.5	A		N	2	
10.0	6.5	F	633	K=H	3	
9.5	6.9	A		N	2	
9.6	7.6	A		N	1	
9.2	7.7	A		N	3	
9.6	9.1	A		N	2	
9.6	11.2	A		N	1	
9.7	11.7	A		N	1	
9.9	12.4	E		K=H	1	
9.4	14.5	F	634	K=H	1	

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[[table]]									
R.A. 1900 Dec. No A.G.C. R.A. 1900 Dec. 1900 Magn. No C.D.M. R.A. Dec. Magn.									
16 54.3	-28.5	23011	16 54.2	-28 29	8				
16 57.6	-28.2	23088	16 57.7	-28 7	8				
16 58.0	-28.5	23097	16 58.2	-28 26	6.7				
16 26.1	-29.0	Not in A.G.C.		-28 12	17.8	16 24.6	-28 45.9	7.6	ZC
16 32.4	-28.9	Not in A.G.C.		-28 12	26.0	16 30.7	-28 40.3	8.6	ZC
16 34.0	-28.9	Not in A.G.C.		-28 12	27.7	16 32.4	-28 41.0	7.2	ZC
16 36.0	-29.0	22586	16 35.9	-28 56	7.7				
16 39.2	-29.0	22652	16 39.7	-29 1	7.2				
16 39.2	-28.7	22647	16 39.3	-28 3.9	7.5				
16 40.0	-29.1	Not in A.G.C.		-28 12	37.7	16 38.1	-28 58.5	8.0	ZC
16 40.7	-28.8	Not in A.G.C.		-28 12	38.9	16 38.9	-28 40.7	8.4	ZC
16 41.9	-28.9	22689	16 41.7	-28 47	8.2				
16 42.8	-29.1	Not in A.G.C.		-28 12	43.1	16 40.9	-28 55.6	8.9	
16 43.3	-29.0	22719	16 43.0	-28 57	8				
16 45.4	-28.9	Not in A.G.C.		-28 12	47.9	16 43.3	-28 48.7	8.6	ZC
16 48.0	-28.8	Not in A.G.C.		-28 12	54.8	16 46.1	-28 44.5	8.1	ZC
16 49.4	-28.9	Not in A.G.C.		-28 12	59.7	16 48.0	-28 47.8	8.4	ZC
16 56.1	-28.9	23055	16 56.2	-28 50	8.8				
16 59.6	-28.9	23131	16 59.7	-28 44	7.4				
		22221	16 18.4	-29 28	6.8				
16 18.2	-29.5	22222	16 18.4	-29 29	6.2				
16 19.5	-29.2	22238	16 19.4	-29 11	7.5				
16 21.1	-29.3	Not in A.G.C.		-29 12	5.48	16 19.5	-29 10.8	8.9	ZC
16 21.3	-29.1	22274	16 21.3	-29 4	7.5				
16 24.4	-29.5	Not in A.G.C.		-29 12	5.91	16 22.9	-29 12.3	7.4	ZC
16 29.2	-29.5			-29 12	6.52	16 27.6	-29 16.3	7.8	ZC
16 30.4	-29.5			-29 12	6.78	16 28.8	-29 17.4	8.4	ZC
16 32.0	-29.6			-29 12	6.98	16 30.3	-29 25.2	8.6	ZC
16 36.0	-29.4			-29 12	7.70	16 35.1	-29 13.0	8.7	ZC
[[/table]]									



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[[table]]

V|H|Cl.|No Rem.|Kline|Int.]

9.6	14.9	A	N 2
9.1	15.0	A	N 1
9.7	16.1	E	K=H 1
9.4	18.1	E	K=H 1
9.1	19.9	E	K=H 1
9.8	20.8	A	N 1
9.4	21.2	A	635 N 1
9.2	22.1	A	N 1
9.3	23.0	A	N 1
9.9	22.3	Ma	N 1
10.0	22.4	A	N 1
10.5	7.0	F	636 K=H 1
10.9	8.8	A	N 1
10.6	9.3	E	K=H 1
10.2	10.6	F	637 K=H 1
10.3	12.6	F	638 K=H 1
10.3	12.9	A	K=H 2
11.0	13.6	A	N 1
10.4	17.0	A	K=H 1
11.0	17.6	A	K=H 1
10.6	18.0	A	N 2
10.2	19.6	A	K=0.4H 2
10.0	20.9	E	K=H 1
10.2	20.9	A	N 1
10.7	21.2	A	N 1
11.0	21.9	A	N 1
10.9	23.3	A	N 1
10.8	23.5	F	639 K=H 1

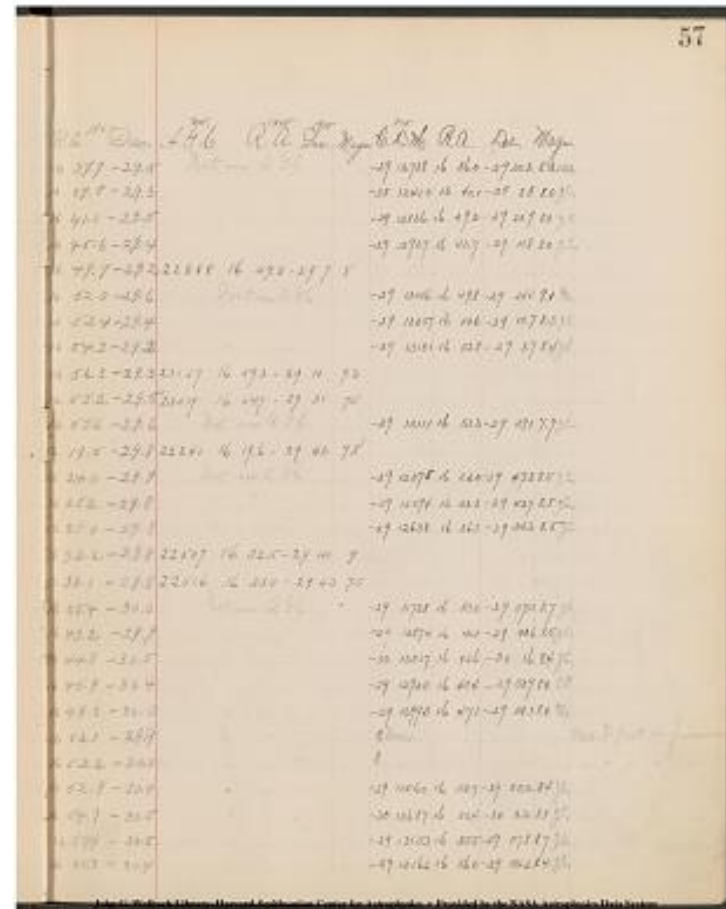
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56	November 25, 1892	
9.6	14.9	A
9.1	15.0	A
9.7	16.1	E
9.4	18.1	E
9.1	19.9	E
9.8	20.8	A
9.4	21.2	A
9.2	22.1	A
9.3	23.0	A
9.9	22.3	Ma
10.0	22.4	A
10.5	7.0	F
10.9	8.8	A
10.6	9.3	E
10.2	10.6	F
10.3	12.6	F
10.3	12.9	A
11.0	13.6	A
10.4	17.0	A
11.0	17.6	A
10.6	18.0	A
10.2	19.6	A
10.0	20.9	E
10.2	20.9	A
10.7	21.2	A
11.0	21.9	A
10.9	23.3	A
10.8	23.5	F

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[[table]]									
R.A. 1900 Dec. No. A.G.C. 1900 R.A. 1900 Dec. Magn No. C.D.M.									
R.A. Dec. Magn.									
--- --- --- --- --- --- --- --- --- ---									
16 37.7	-29.5	Not in A.G.C.		-29 12788	16 36.0	-29 20.2		8.2	OA.
16 37.8	-29.3			-28 12413	16 40.1	-28 8.8		8.0	Z.I.
16 41.1	-29.5			-29 12836	16 39.2	-29 20.9		8.0	Z.c.
16 45.6	-29.4			-29 12927	16 43.7	-29 11.8		8.0	Z.C.
16 49.7	-29.2	22888		16 49.3	-29 7.8				
16 52.0	-29.6			-29 13046	16 49.8	-29 24.4		9.1	G C.
16 52.4	-29.4			-29 13057	16 50.6	-29 12.7		8.3	Z.C.
16 54.2	-29.2			-29 13101	16 52.8	-29 3.7		8.4	Z.C.
16 56.3	-29.3	23057		16 59.3	-29 10.9				
16 55.2	-29.5	23017		16 54.7	-29 31.7				
16 55.6	-29.6	Not in A.G.C.		-29 13111	16 53.3	-29 29.1		7.7	Z.C.
16 19.5	-29.8	22241		16 19.6	-29 42.7				
16 24.0	-29.9	Not in A.G.C.		-29 12575	16 22.0	-29 47.3		8.5	Z.C.
16 25.2	-29.8			-29 12594	16 23.3	-29 43.7		8.5	Z.C.
16 28.0	-29.8			-29 12638	16 26.3	-29 34.2		8.5	Z.C.
16 32.2	-29.8	22507		16 32.5	-29 41.9				
16 33.1	-29.8	22516		16 33.0	-29 43.7				
16 35.4	-30.0	Not in A.G.C.		-29 11728	16 33.0	-29 57.3		8.7	Z.C.
16 43.2	-29.9			-29 12874	16 41.1	-29 43.6		8.5	Z.C.
16 44.8	-30.5			-30 13517	16 42.6	-30 1.6		8.4	Z.C.
16 45.9	-30.4			-29 12920	16 43.4	-29 50.9		8.0	0.0.
16 49.3	-30.0			-29 12993	16 47.1	-29 38.1		8.0	Z.C.
16 52.1	-29.9			? meas		^[[Mis. F put on frame]]			
16 52.2	-30.1			?		^[[Mis. F put on frame]]			
16 52.9	-30.4			-29 13060	16 50.7	-29 55.2		8.4	Z.C.
16 54.9	-30.5			-30 13687	16 52.4	-30 3.2		8.1	Z.C.
16 57.9	-30.5			-29 13153	16 55.5	-29 57.8		8.7	Z.C.
16 58.3	-30.4			-29 13162	16 56.0	-29 54.2		8.4	Z.C.

[[/table]]

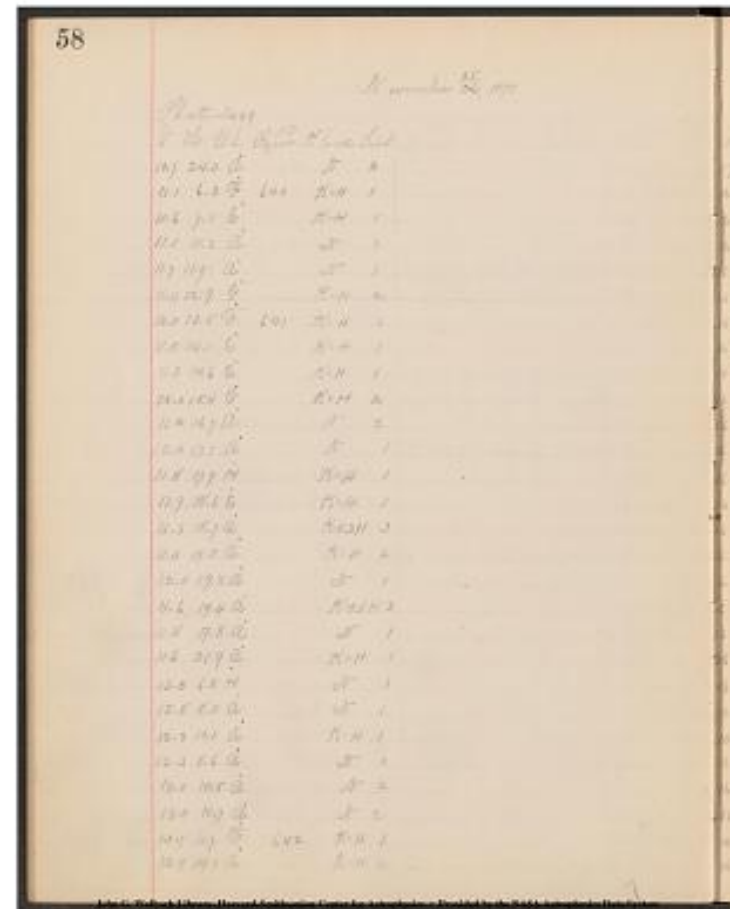


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November 25 ~~26~~, 1892

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[[table]]						
V	H	Cl.	No.	Rem.	K line	Int.
10.7	24.0	A			N	2
11.1	6.3	F	640		K=H	1
11.6	7.1	E			K=H	1
11.1	11.2	A			N	1
11.7	11.7	A			N	1
11.4	12.9	G			K=H	2
12.0	13.5	F	641		K=H	1
11.5	14.1	E			K=H	1
11.3	14.6	E			K=H	1
12.0	15.4	G			K=H	2
11.2	16.7	A			N	2
12.0	17.1	A			N	1
11.8	17.9	H			K=H	1
11.9	18.6	E			K=H	1
11.3	18.7	A			K=0.3H	3
11.3	19.0	A			K=H	2
12.0	19.2	A			N	1
11.6	19.4	A			K=0.5H	3
11.8	19.8	A			N	1
11.6	21.9	A			K=H	1
12.3	6.8	H			N	1
12.8	8.0	A			N	1
12.3	10.1	A			K=H	1
12.3	8.6	A			N	1
13.0	10.5	A			N	2
13.0	10.7	A			N	2
13.7	11.7	F	642		K=H	1
12.9	14.7	A			K=H	2
[[/table]]						



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Plates, Southern Draper Catalogue #61
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[[10 columned table]]
 |R.A. 1900| Dec. |A.G.C. |R.A. 1900|Dec. 1900|Magn. |C.D.M.|R.A. |
 Dec.| Magn. |

17	0.0	-30.3				-29	131	76	16	57.2	-29	50.6	8.0ZC
16	17.8	-30.0				-29	125	08	16	16.3	-29	52.1	8.2ZC
16	19.7	-30.4				-30	131	34	16	18.0	-30	9.3	8.3GC
16	29.5	-30.1				-30	132	68	16	27.6	-30	0.3	8.5ZC
16	34.9	-30.4				-30	132	85	16	28.7	-30	19.5	8.4
16	33.4	-30.3	22522			16	33.0	-30	16	7.8			
16	37.0	-30.3				-30	133	96	16	35.2	-30	9.4	8.5ZC
16	39.0	-30.6	22637			16	39.0	-30	37	7.2			
16	41.9	-30.2	22701			16	42.1	-30	11	8.5			
16	42.9	-30.7				-30	13492		16	41.2	-30	33.3	8.6
16	45.2	-30.9				-30	135	27	16	43.2	-30	26.6	8.1ZC
16	47.0	-30.9				-30	13554		16	44.8	-30	28.5	8.7ZC
16	47.6	-30.7	22840			16	47.7	-30	36	7.5			
16	48.0	-30.6	22852			16	48.1	-30	34	7.5			
16	48.3	-31.0				-30	135	81	16	46.1	-30	33.1	8.6GC
16	49.0	-30.8	22863			16	48.4	-30	49	7.2			
16	49.8	-30.9	22907			16	49.8	-30	56	8.8			
16	54.6	-30.8				-30	13185		16	52.3	-30	17.3	8.9ZC
16	19.0	-30.7				-30	13125		16	17.3	-30	30.7	8.8ZC
16	22.0	-30.9				-30	13167		16	20.1	-30	44.6	8.9ZC
16	26.8	-30.7				-30	13232		16	24.9	-30	36.7	8.3ZC
16	23.5	-30.7				-30	13185		16	21.5	-30	31.4	8.9
16	27.6	-31.0				-30	12991		16	25.7	-31	1.2	8.1ZC
16	28.0	-31.0				-30	13000		16	26.2	-31	0.8	8.1ZC
16	[Mrs. F put on frame]												
16	37.1	-31.1	22609			16	37.2	-31	2	7.4			

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Plates, Southern Draper Catalogue #61
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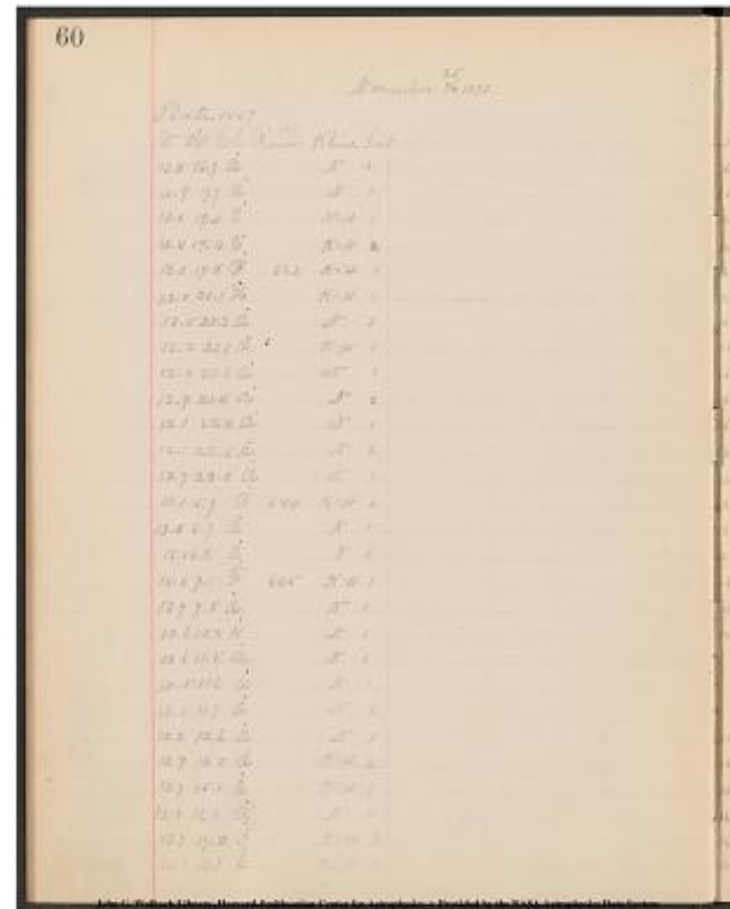
Plate 3449

[[6 column table]]

V | H | Cl. | No. | Rem. | K line | Int. |

12.8	16.9	A		N	3	
12.9	19.9	A		N	1	
13.0	19.4	E		K=H	1	
12.4	19.4	E		K=H	2	
13.0	19.8	OF	643	K=H	1	
13.0	20.1	Ha		K=H	1	
12.5	20.2	A		N	1	
12.2	21.1	A		K=H	1	
12.0	21.3	A		N	1	
12.9	21.4	A		N	2	
12.1	22.4	A		N	1	
12.1	22.5	A		N	2	
12.9	23.0	A		N	1	
13.1	5.9	F	644	K=H	2	
13.8	6.7	A		N	1	
13.5	6.8	A		N	3	
14.0	7.1	F	645	K=H	1	
13.9	9.8	A		N	1	
13.6	10.2	H		N	1	
13.6	11.5	A		N	1	
13.5	11.6	A		N	1	
13.2	11.7	A		N	1	
13.2	12.6	A		N	1	
13.9	13.0	A		K=H	2	
13.7	15.1	E		K=H	1	
13.3	16.0	A		N	2	
13.7	17.2	F		K=H	2	
13.7	17.7	E		K=H	1	

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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
 Plates, Southern Draper Catalogue #61
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[[table]]									
R.A. 1900 Dec. 1900 No A.G.C. R.A 1900 Dec. 1900 Magn. No									
C.D.M. R.A. Dec. Magn.									
16 42.0	-31.0	22697	16 42.0	-31 2'	6.7				
16 44.1	-31.0		-30 13518	16 42.6	-30 59.7	9.0			
16 48.6	-31.3	22873	16 48.7	-31 15	6.9				
16 49.1	-31.0		-30 13598	16 46.8	-30 46.4	7.5 AGC			
16 49.3	-31.3	22896	16 49.4	-31 19	7.2				
16 49.9	-31.2	22915	16 49.9	-31 9	7.2				
16 50.0	-30.9	22907	16 49.8	-30 56	8.8				
16 52.1	-30.8		-30 13665	16 50.6	-30 38.2	7.8 zC			
16 52.8	-30.9		-30 13671	16 51.0	-30 41.7	9.1 zC			
16 53.0	-31.1		-30 13675	16 51.3	-30 59.5	8.3 zC			
16 56.0	-30.7		-30 13709	16 53.6	-30 33.6	8.8 zC			
16 56.1	-30.7		-30 13711	16 53.8	-30 35.9	7.5 zC			
16 57.2	-31.0		-30 13730	16 54.8	-30 53.0	8.2 zC			
16 16.0	-31.0	22173	16 76.0	-31 1	8.5				
16 18.3	-31.4		-31 12855	16 17.0	-31 16.1	8.5 zC			
16 18.6	-31.1	22229	16 18.7	-31 13	7.5				
16 19.2	-31.5	22237	16 19.3	-31 29	7.5				
16 25.6	-31.4		-31 12958	16 23.9	-31 22.5	8.8 zC			
16 26.3	-31.4	22385	16 26.7	-31 20	7.5				
			-31 13032	16 28.0	-31 20.1	8.7 zC			
			-31 13037	16 28.3	-31 15.5	8.8 zC			
			-31 13045	16 28.7	-31 12.6	8.3 zC			
16 32.0	-31.2		-31 13083	16 30.7	-31 4.6	8.8			
16 32.9	-31.6		-31 13099	16 31.5	-31 28.3	8.2 zC			
16 38.2	-31.5		-31 13179	16 36.7	-31 22.1	8.7			
16 40.4	-31.3	22670	16 40.5	-31 16	8				
16 43.4	-31.5	22722	16 43.1	-31 29	7.4				
16 44.2	-31.5	22747	16 44.2	-31 28	8				
[[/table]]									

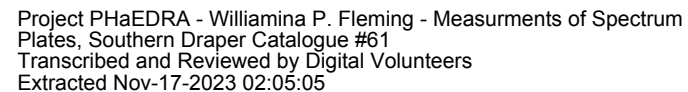
61									
R.A. 1900 Dec. 1900 No A.G.C. R.A 1900 Dec. 1900 Magn. No									
C.D.M. R.A. Dec. Magn.									
16 42.0	-31.0	22697	16 42.0	-31 2'	6.7				
16 44.1	-31.0		-30 13518	16 42.6	-30 59.7	9.0			
16 48.6	-31.3	22873	16 48.7	-31 15	6.9				
16 49.1	-31.0		-30 13598	16 46.8	-30 46.4	7.5 AGC			
16 49.3	-31.3	22896	16 49.4	-31 19	7.2				
16 49.9	-31.2	22915	16 49.9	-31 9	7.2				
16 50.0	-30.9	22907	16 49.8	-30 56	8.8				
16 52.1	-30.8		-30 13665	16 50.6	-30 38.2	7.8 zC			
16 52.8	-30.9		-30 13671	16 51.0	-30 41.7	9.1 zC			
16 53.0	-31.1		-30 13675	16 51.3	-30 59.5	8.3 zC			
16 56.0	-30.7		-30 13709	16 53.6	-30 33.6	8.8 zC			
16 56.1	-30.7		-30 13711	16 53.8	-30 35.9	7.5 zC			
16 57.2	-31.0		-30 13730	16 54.8	-30 53.0	8.2 zC			
16 16.0	-31.0	22173	16 76.0	-31 1	8.5				
16 18.3	-31.4		-31 12855	16 17.0	-31 16.1	8.5 zC			
16 18.6	-31.1	22229	16 18.7	-31 13	7.5				
16 19.2	-31.5	22237	16 19.3	-31 29	7.5				
16 25.6	-31.4		-31 12958	16 23.9	-31 22.5	8.8 zC			
16 26.3	-31.4	22385	16 26.7	-31 20	7.5				
			-31 13032	16 28.0	-31 20.1	8.7 zC			
			-31 13037	16 28.3	-31 15.5	8.8 zC			
			-31 13045	16 28.7	-31 12.6	8.3 zC			
16 32.0	-31.2		-31 13083	16 30.7	-31 4.6	8.8			
16 32.9	-31.6		-31 13099	16 31.5	-31 28.3	8.2 zC			
16 38.2	-31.5		-31 13179	16 36.7	-31 22.1	8.7			
16 40.4	-31.3	22670	16 40.5	-31 16	8				
16 43.4	-31.5	22722	16 43.1	-31 29	7.4				
16 44.2	-31.5	22747	16 44.2	-31 28	8				

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[[table]]				
V H	Cl.	No.	Rem.	K line Int.
13.7	17.9	A		N 1
14.0	18.2	A		N 1
14.0	18.4	E		K=H 1
13.2	19.6	A		N 3
13.4	19.9	A		N 2
13.5	10.0	A		N 2
13.8	20.6	A		N 1
13.9	21.6	A		N 2
13.7	23.1	A	646	K 3
13.3	23.7	F	647	K=H 1
14.7	7.1	F	648	K=H 1
14.7	10.4	F	649	K=H 1
14.3	11.1	A		K=H 1
14.6	11.8	A		K=H 1
14.3	11.9	A		K=H 1
14.7	12.0	A		N 1
14.4	12.6	A		K=H 2
14.2	12.7	F	650	K=H 1
15.0	14.4	A		N 2
15.0	13.9	A		N 1
14.5	14.8	A		N 3
14.1	16.4	A		N 1
14.1	18.7	A		N 2
14.8	19.3	F	651	K=H 2
14.4	20.3	A		K=H 1
14.7	22.4	A		N 3
15.0	22.7	A		N 2
14.5	24.2	F	652	K=H 1
[[/table]]				

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Plates, Southern Draper Catalogue #61
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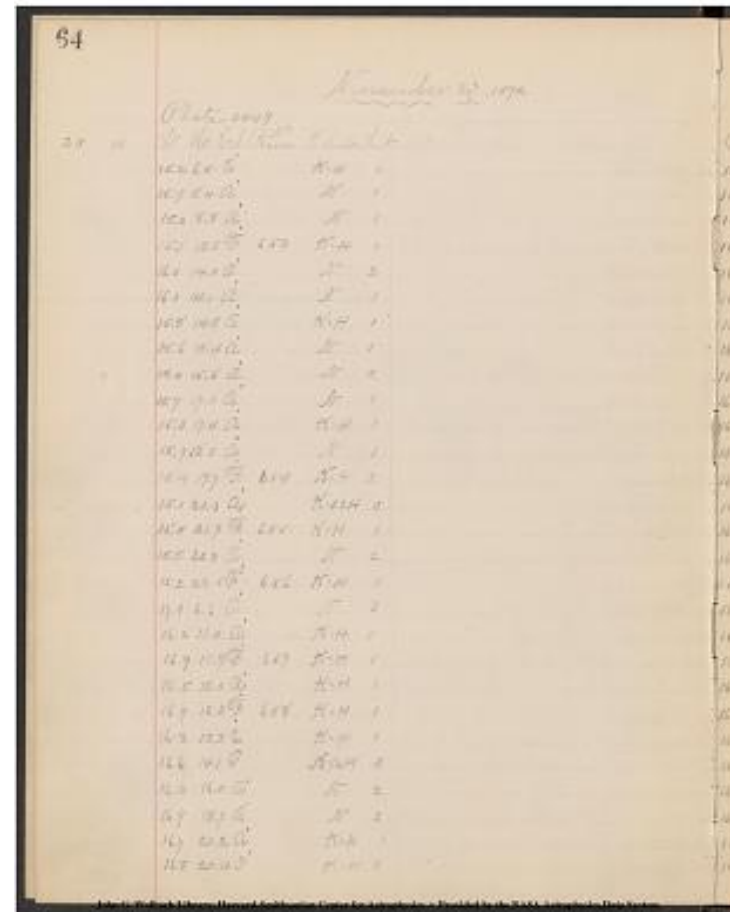
November 27, 1892
Plate 3449

23 11

[[table]]

V|H|C|Rem^[[No.]]|K line|Int. |

15.2	6.5	E		K=H 1
15.9	8.4	A		N 1
15.3	8.8	A		N 1
15.1	12.5	F	653	K=H 1
16.0	14.0	A		N 2
16.0	14.1	A		N 1
15.8	14.5	A		K=H 1
15.6	15.4	A		N 1
15.4	15.5	A		N 2
15.9	17.0	A		N 1
15.3	17.4	A		K=H 1
15.9	18.0	A		N 1
15.4	19.7	F	654	K=H 2
15.1	20.3	A		K=0.2H 3
15.0	21.9	F	655	K=H 1
15.8	20.3	A		N 2
15.2	23.5	F	656	K=H 1
17.0	6.6	A		N 3
16.2	11.0	A		K=H 1
16.9	11.9	F	657	K=H 1
16.5	12.0	A		K=H 1
16.9	12.3	F	658	K=H 1
16.2	12.3	E		K=H 1
16.6	14.1	G		K=1.2H 3
16.3	16.0	A		N 2
16.9	18.7	A		N 2
16.7	20.2	A		K=H 1
16.8	20.4	G		K=H 3



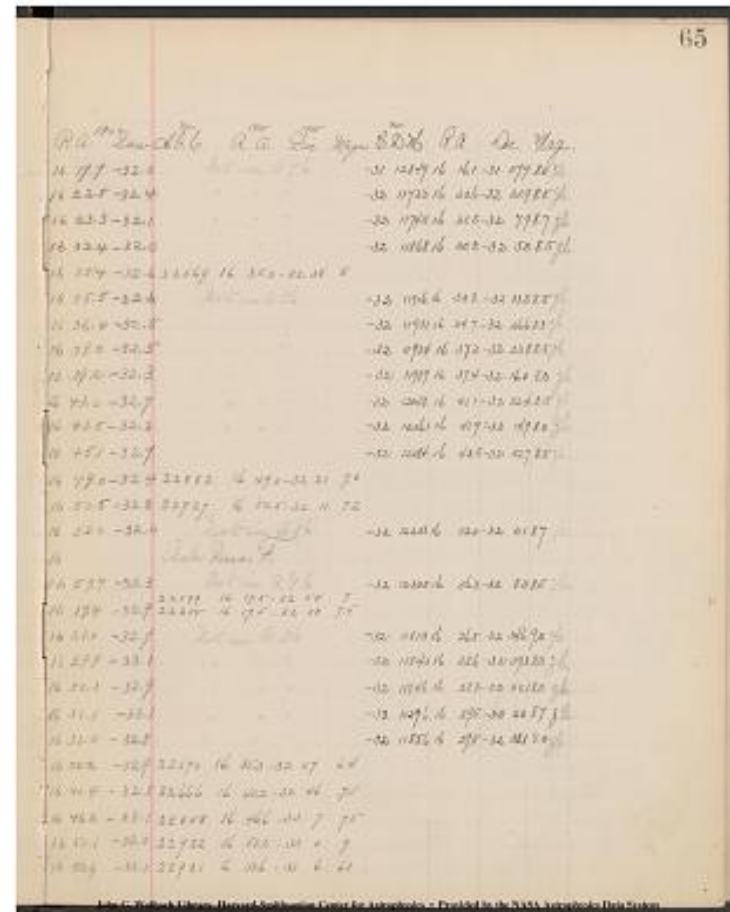
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]

R.A. 1900|Dec.|A.G.C. No.|R.A. 1900|Dec. 1900|Magn.|C.D.M. No.
R.A.|Dec.|Magn.

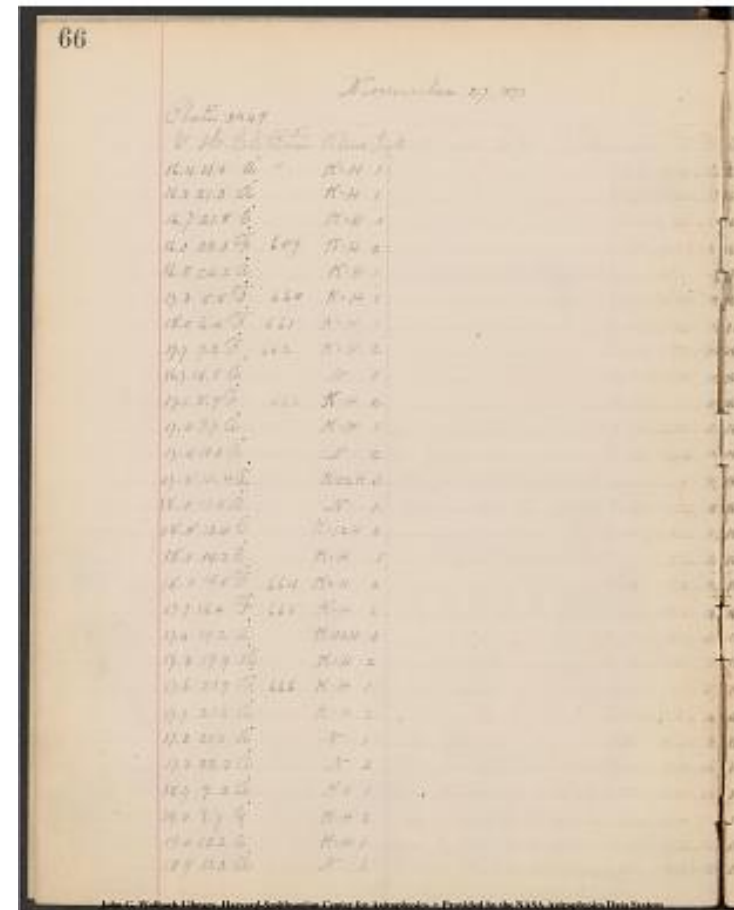
16 17.7	-32.0	Not in A.G.C.				-31 12849	16 16.1	-31 57.9	8.0 ZC
16 22.5	-32.4	Not in A.G.C.				-32 11733	16 20.6	-32 21.9	8.5 ZC
16 23.3	-32.1	Not in A.G.C.				-32 11745	16 21.5	-32 7.9	8.7 ZC
16 32.4	-32.0	Not in A.G.C.				-32 11868	16 30.3	-32 5.0	8.5 ZC
16 35.4	-32.6	22569	16 35.3	-32 38	8				
16 35.5	-32.6	Not in A.G.C.				-32 11916	16 33.8	-32 33.3	8.5 ZC
16 36.4	-32.5	Not in A.G.C.				-32 11931	16 34.7	-32 26.6	8.3 ZC
16 39.0	-32.5	Not in A.G.C.				-32 11984	16 37.2	-32 23.8	8.5 ZC
16 39.2	-32.3	Not in A.G.C.				-32 11989	16 37.4	-32 16.0	8.0 ZC
16 43.0	-32.7	Not in A.G.C.				-32 12048	16 41.1	-32 32.4	8.5 ZC
16 43.5	-32.3	Not in A.G.C.				-32 12061	16 41.9	-32 14.9	8.0 ZC
16 45.1	-32.7	Not in A.G.C.				-32 12084	16 43.5	-32 32.7	8.5 ZC
16 49.0	-32.4	22882	16 49.0	-32 21	7.0				
16 50.5	-32.3	22927	16 50.5	-32 11	7.2				
16 52.0	-32.0	Not in A.G.C.				-32 12238	16 52.0	-32 0.1	8.7 ZC
16		Ask Mrs. F.							
16 57.7	-32.3	Not in A.G.C.				-32 12305	16 56.3	-32 8.3	8.5 ZC
16 17.4	-32.9	22200^	[[22199]]	16 17.5^	[[16 17.5]]	-32 58^	[[32		
58]]	7.5^	[[7]]							
16 28.0	-32.7	Not in A.G.C.				-32 11813	16 26.5	-32 34.6	9.0 ZC
16 29.9	-33.1	Not in A.G.C.				-32 11843	16 28.6	-32 59.3	8.3 ZC
16 30.1	-32.9	Not in A.G.C.				-32 11846	16 28.8	-32 45.1	8.0 ZC
16 31.1	-33.1	Not in A.G.C.				-32 11296	16 29.5	-33 0.0	8.7 ZC
16 31.0	-32.8	Not in A.G.C.				-32 11856	16 29.5	-32 38.1	8.0 ZC
16 35.2	-32.9	22570	16 35.5	-32 57	6.4				
16 40.4	-32.8	22666	16 40.2	-32 46	7.5				
16 46.2	-33.1	22808	16 46.6	-33 7	7.5				
16 50.1	-33.0	22922	16 50.2	-33 0	9				
16 50.6	-33.1	22931	16 50.6	-33 6	6.0				

[[/table]]



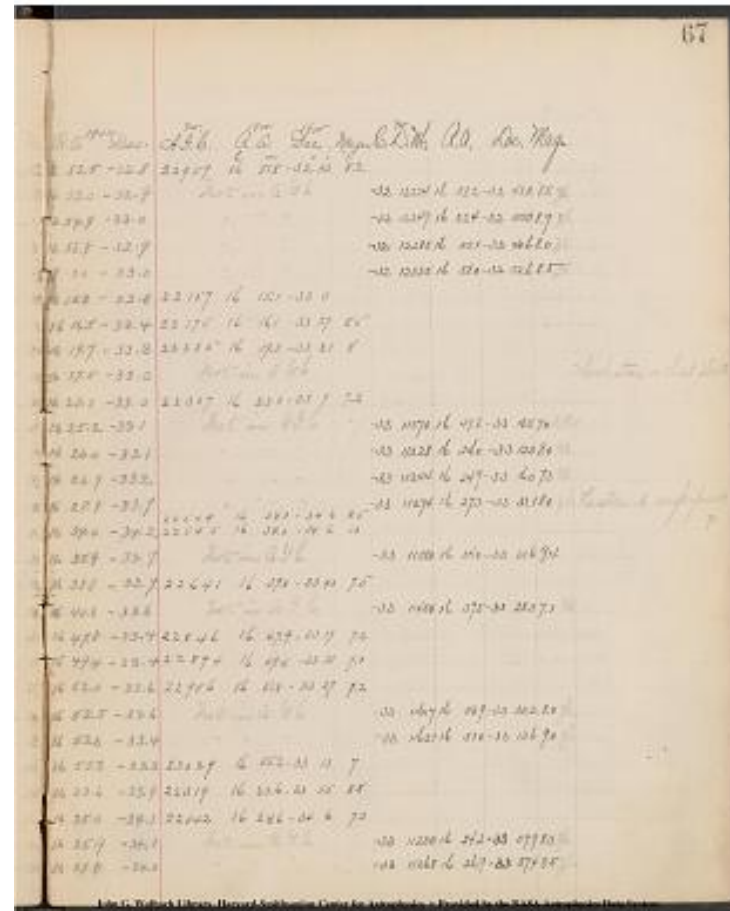
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 November 27, 1892
 Plate 3449
 [[table]]
 |V.|H.|Cl.|Rem.^[[No.]]|K line|Int|
 |---|---|---|---|---|
 16.4|21.0|A| |K=H|1
 16.3|21.3|A| |K=H|1
 16.7|21.8|E| |K=H|1
 16.3|23.0|F|659|K=H|2
 16.8|24.2|A| |K=H|1
 17.3|5.5|F|660|K=H|1
 18.0|6.0|F|661|K=H|1
 17.7|7.3|F|662|K=H|2
 16.7|14.8|A| |N|1
 17.1|8.9|F|663|K=H|2
 17.3|9.7|A| |K=H|1
 17.4|10.0|A| |N|2
 17.5|10.4|A| |K=0.2H|3
 18.0|11.4|A| |N|1
 18.8|13.4|G| |K=1.2H|2
 18.0|14.2|E| |K=H|1
 18.0|15.5|F|664|K=H|2
 17.7|16.4|F|665|K=H|2
 17.3|19.2|A| |K=0.2H|3
 17.3|19.9|H| |K=H|2
 17.6|20.9|F|666|K=H|1
 17.7|21.2|A| |K=H|2
 17.3|21.2|A| |N|1
 17.2|22.3|A| |N|2
 18.7|9.2|A| |K=H|1
 19.0|9.7|G| |K=H|2
 19.0|10.2|E| |K=H|1
 18.9|11.3|A| |N|1



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]
 Ra^[[1900]]|Dec.|No. A.G.C.| R.A 1900 | Dec. 1900 | Magn | No. C.D.M.
 R.A. | Dec. | Magn. |
 -----|-----|-----|-----|-----|-----|-----|
 16 52.5|-32.8|22954|16^[[h]] 51.8^[[m]]|-32° 53'|8.2| | | | |
 16 53.0|-32.9|Not in A.G.C.| | | |-32 12224|16 51.2|-32 43.0|8.5 Z.C.|
 16 54.9|-33.0|Not in A.G.C.| | | |-32 12249|16 52.4|-32 55.0|8.7 Z.C.|
 16 56.9|-32.9|Not in A.G.C.| | | |-32 12285|16 55.1|-32 40.6|8.0 Z.C.|
 17 0.0|-33.0|Not in A.G.C.| | | |-32 12335|16 58.0|-32 52.6|8.5 Z.C.|
 16 15.3|-33.0|22157|16 15.1|-33 0| | | | |
 16 16.5|-33.4|22175|16 16.1|-33 27|8.5| | | | |
 16 19.7|-33.3|22235|16 19.3|-33 21|8| | | | |
 16 37.5|-33.0|Not in A.G.C.| | | | | | | |
 which star on chart plate.|
 16 23.1|-33.0|22307|16 23.0|-33 7|7.2| | | | |
 16 25.2|-33.1|Not in A.G.C.| | | |-33 11570|16 47.8|-33 18.5|7.0 wa|
 16 26.0|-33.1|Not in A.G.C.| | | |-33 11228|16 24.0|-33 12.0|8.0 G.C.|
 16 26.9|-33.2|Not in A.G.C.| | | |-33 11244|16 24.9|-33 16.0|7.3 G.C.|
 16 28.9|-33.7|Not in A.G.C.| | | |-33 11274|16 27.3|-33 33.1|8.0 Z.C.|
 is star S Superposed?|
 16 34.0|-34.2|22545^[[22544]]|16 34.0^[[16 34.0]]|-34 6^[[16 34.0]]|10^[[8.5]]| | | | |
 16 35.9|-33.7|Not in A.G.C.| | | |-33 11380|16 34.0|-33 31.6|9.4| | | |
 16 38.8|-33.7|22641|16 39.0|-33 40|7.5| | | | |
 16 40.6|-33.6|Not in A.G.C.| | | |-33 11450|16 39.5|-33 28.0|7.1 G.C.|
 16 47.8|-33.4|22846|16 47.9|-33 19|7.2| | | | |
 16 49.4|-33.4|22894|16 49.4|-33 21|7.0| | | | |
 16 52.0|-33.6|22956|16 51.8|-33 27|7.2| | | | |
 16 52.5|-33.6|Not in A.G.C.| | | |-33 11617|16 50.9|-33 20.2|8.0 Z.C.|
 16 52.6|-33.4|Not in A.G.C.| | | |-33 11621|16 51.0|-33 13.6|9.0 Z.C.|
 16 55.3|-33.3|23029|16 55.2|-33 13|7| | | | |
 16 23.6|-33.9|22319|16 23.6|-33 15|8.8| | | | |
 16 25.0|-34.1|22342|16 24.6|-34 6|7.3| | | | |
 16 25.9|-34.1|Not in A.G.C.| | | |-33 11230|16 24.2|-33 57.9|8.3 Z.C.|
 16 29.0|-34.0|Not in A.G.C.| | | |-33 11268|16 26.9|-33 57.4|8.5 Z.C.|



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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Plate 3449

[[table]]

V	H	Cl	No Rem	Kline	Int
18.8	11.8	A		N 2	
18.4	12.5	E		K=H 1	
18.7	13.0	A		N 1	
18.6	13.1	A		N 2	
18.8	13.1	A		N 1	
18.9	13.5	A		N 1	
18.2	16.9	A		N 1	
18.3	17.1	A		N 2	
18.7	17.5	G		K=H 4	
18.3	22.3	F	667	K=H 1	
18.1	23.8	E		K=H 1	
18.7	23.5	L	668	N 3	
19.8	9.8	A		N 4	
19.3	10.8	A		K=H 2	
19.8	11.5	F	669	K=H 1	
19.2	20.2	A		N 1	
19.3	20.7	A		K=H 1	
19.6	20.8	A		N 1	
19.8	6.4	A		N 1	
20.4	6.4	F	670	K=H 2	
20.9	7.0	F	671	K=H 2	
20.3	7.1	A		K=H 2	
20.5	7.7	F	672	K=H 1	
20.7	21.9	K		K=H 3	
21.8	11.4	A		N 3	
21.7	13.6	A		N 2	
21.7	14.7	A		N 1	
21.2	18.2	H		N 1	

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Plate 3449

November 27, 1892

S. H. Fleming

V	H	Cl	No Rem	Kline	Int
18.8	11.8	A		N 2	
18.4	12.5	E		K=H 1	
18.7	13.0	A		N 1	
18.6	13.1	A		N 2	
18.8	13.1	A		N 1	
18.9	13.5	A		N 1	
18.2	16.9	A		N 1	
18.3	17.1	A		N 2	
18.7	17.5	G		K=H 4	
18.3	22.3	F	667	K=H 1	
18.1	23.8	E		K=H 1	
18.7	23.5	L	668	N 3	
19.8	9.8	A		N 4	
19.3	10.8	A		K=H 2	
19.8	11.5	F	669	K=H 1	
19.2	20.2	A		N 1	
19.3	20.7	A		K=H 1	
19.6	20.8	A		N 1	
19.8	6.4	A		N 1	
20.4	6.4	F	670	K=H 2	
20.9	7.0	F	671	K=H 2	
20.3	7.1	A		K=H 2	
20.5	7.7	F	672	K=H 1	
20.7	21.9	K		K=H 3	
21.8	11.4	A		N 3	
21.7	13.6	A		N 2	
21.7	14.7	A		N 1	
21.2	18.2	H		N 1	

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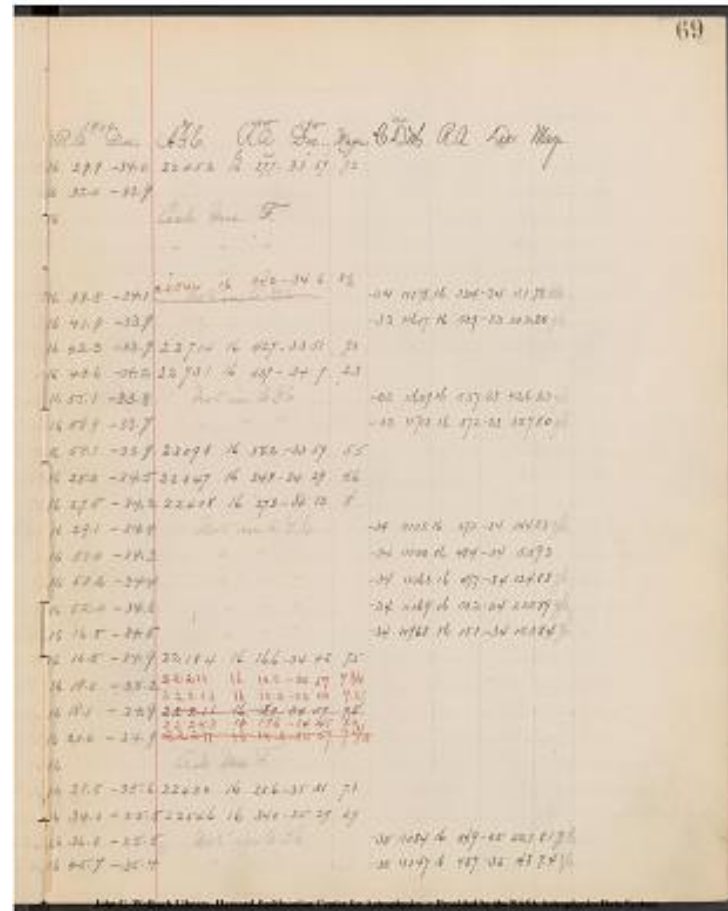
[[preprinted]] 69[[/preprinted]]

[[table]]

R.A. 1900|Dec. |No. A.G.C |R.A 1900 |Dec. 1900|Magn.|No. C.D.M. |
R.A. | Dec. | Magn. |

16 29.9	-34.0	22452	16 ^h [[h]]	29.7 ^m [[m]]	-33° 59'	7.2			
16 32.0	-33.9								
16	Ask Mrs. F.								
	Ask Mrs. F.								
	Ask Mrs. F.								
16 33.8	-34.1	22544	Not in A.G.C.	22544	16				
34.0	-34 6	8 ½	-34 11178	16 32.4	-34 3.1	7.8	GC		
16 41.9	-33.9	Not in A.G.C.		-33 11167	16 50.9	-33 20.2			
8.0ZC									
16 42.3	-33.9	22714	16 42.7	-33 51	7.0				
16 43.6	-34.2	22731	16 43.7	-34 7	2.3				
16 55.1	-33.8	Not in A.G.C.		-33 11659	16 53.7	-33 42.6			
8.3ZC									
16 58.9	-33.7	Not in A.G.C.		-33 11713	16 57.2	-33 35.7			
8.0ZC									
16 58.1	-33.9	23098	16 58.2	-33 59	5.5				
16 25.0	-34.5	22347	16 24.8	-34 29	4.6				
16 27.5	-34.2	22408	16 27.2	-34 13	8				
16 29.1	-34.4	not in A.G.C.		-34 11105	16 27.3	-34 24.4	8.3ZC		
16 50.0	-34.3	not in A.G.C.		-34 11350	16 48.4	-34 5.5	9.3		
16 51.6	-34.4	not in A.G.C.		-34 11363	16 49.7	-34 12.4			
8.8ZC									
16 52.0	-34.6	not in A.G.C.		-34 11369	16 50.2	-34 23.5			
8.9ZC									
16 16.5	-34.5	not in A.G.C.		-34 10968	16 15.1	-34 15.3			
8.4ZC									
16 16.5	-34.9	22184	16 16.6	-34 42	7.5				
16 18.0	-35.2	22211	16 18.0	-34 57	7 ¾				
16 18.1	-34.9	22211	16 18.0	-34 57	7.8				
22213	16 18.2	-34 40	7.2						
16 20.0	-34.9	22211	16 18.0	-34 57	7 ¾				
22243	16 19.6	-34 45	8.0						
16	Ask Mrs. F.								
16 28.5	-35.6	22430	16 28.6	-35 31	7.0				
16 34.0	-35.5	22546	16 34.0	-35 29	6.9				
16 36.8	-35.5	Not in A.G.C.		-35 11084	16 34.9	-35 25.3			
8.1ZC									
16 45.7	-35.4	Not in A.G.C.		-35 11147	16 43.7	-35 14.8			
7.4ZC									

[[/table]]



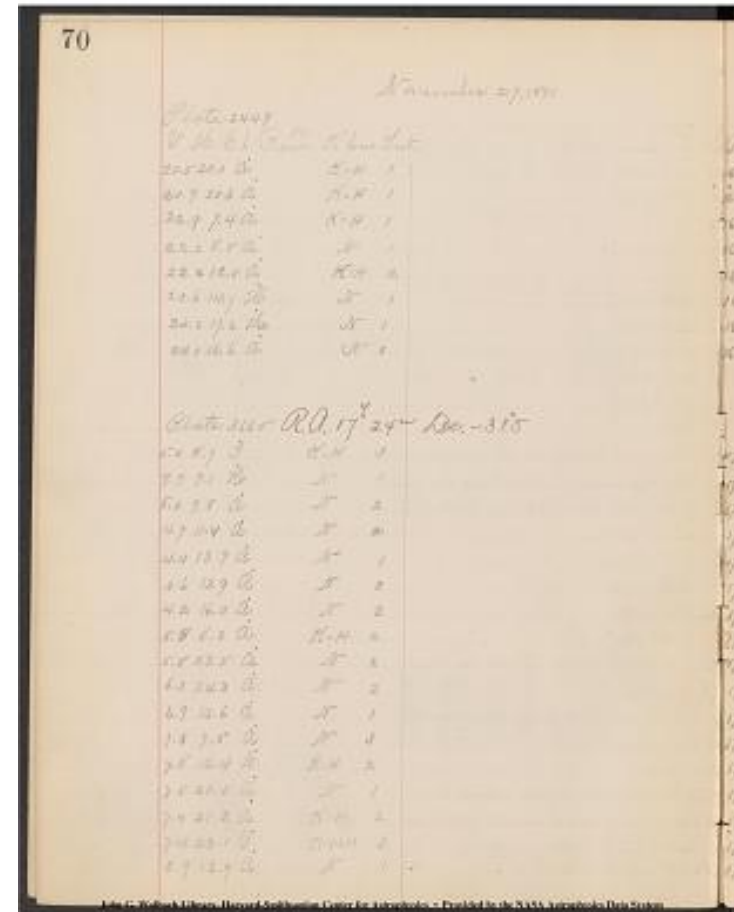
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November 27, 1892
Plate 3449

[[6 column table]]					
V	H	Cl.	No Rem.	K line	Int.
20.5	20.0	A		K=H	1
20.9	20.6	A		K=H	1
22.9	7.4	A		K=H	1
22.2	8.5	A		N	1
22.2	12.0	A		K=H	2
23.6	14.7	H		N	1
23.2	17.2	H		N	1
24.0	16.6	A		N	3

Plate 3665 R.A. $17^h 24^m$ Dec. $-31^\circ.5$

[[table]]					
V	H	Cl.	No Rem.	K line	Int.
5.0	8.7	I		K=H	3
4.9	9.1	H		N	1
5.0	9.8	A		N	2
4.7	11.4	A		N	2
4.4	13.9	A		N	1
3.6	13.9	A		N	3
4.2	16.0	A		N	3
5.8	8.3	A		K=H	2
5.8	23.5	A		N	2
6.0	24.3	A		N	2
6.9	13.6	A		N	1
7.3	7.5	A		N	3
7.8	12.4	L		K=H	2
7.5	20.0	A		N	1
7.4	21.2	A		K=H	2
7.4	23.1	A		K=1.2H	3
8.9	12.9	A		N	1



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November 27, 1892

Plate 3665

[[table]]

V | H | Cl | No Rem | K line | Int |

8.4	13.7	F	674	K=H	2
7.3	8.2	F	673	K=H	2
8.3	14.3	A		N	1
8.5	18.7	A		N	1
8.5	19.2	F	675	K=H	1
8.7	22.	[[strikethrough]]	0	[[/strikethrough]]	2 A N 1
9.1	14.1	A		N	2
9.4	19.8	A		N	2
10.3	11.2	A		K=0.2H	3
10.8	13.4	A		K=0.5H	2
11.0	14.2	F	676	K=H	4
10.9	14.3	A		K=0.2H	3
10.7	14.9	A		N	1
10.8	16.6	A		N	2
10.6	19.3	I		K=H	2
10.5	20.7	A		N	1
10.4	23.8	A		N	1
10.4	24.3	A		N	1
11.9	9.2	A		K=0.2H	3
11.8	9.9	E		K=H	2
11.3	10.3	A		N	1
11.2	12.7	H		N	1
11.3	12.9	A		N	2
12.0	15.9	E		K=H	1
11.5	19.4	A		N	2
11.9	21.1	A		K=H	1
12.5	6.2	A		K=0.3H	3
12.1	9.1	A		N	1

[[/table]]

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]

R.A. 1900 | Dec. | No. A.G.C. | R.A. 1900 | Dec. 1900 | Magn. | No. C.D.M. |
R.A. | Dec. | Mag.]

17 20.2	-28.4	23604	17h 20.0m	-28° 20'	7.5				
17 7.9	-27.8	23317	17 7.8	-27 41	7.0				
17 21.8	-28.4	23637	17 21.5	-28 17	8.2				
17 31.2	-28.5	23871	17 31.4	-28 22	8				
17 32.5	-28.5	23895	17 32.7	-28 21	7.2				
17 39.3	-28.7	not-in A.G.C.				8	-28 13540	17 37.5	-28 26.5
17 21.0	-28.9	not-in A.G.C.							8.9 Z.C.]
13161	17 19.4	-28 39.9	7.5						
17 34.3	-29.0	23932	17 34.1	-28 52	8				
17 13.9	-29.5	23458	17 14.1	-29 16	7 1/4	-29 13411	17 12.5	-29	
14.6	7.1								
17 19.0	-29.8	23589	17 19.1	-29 35	7.5				
17 21.0	-29.9	23629	17 21.0	-29 47	4.6				
17 21.2	-29.7	23633	17 21.3	-29 39	6.7				
17 22.6	-29.7	not-in A.G.C.				-29 13590	17 20.9	-29 29.2	9.0
17 26.9	-29.7	23777	17 26.7	-29 34	7				
17 33.2	-29.6	23900	17 33.0	-29 28	7.5				
17 36.0	-29.5	23986	17 36.1	-29 23	8.5				
17 43.0	-29.2	not-in A.G.C.				-29 14038	17 41.5	-29 16.0	7.8
ZC]									
17 44.4	-29.1	not-in A.G.C.				-29 14667	17 42.7	-29 14.5	8.1
Z.C.]									
17 9.1	-30.1	23349	17 9.1	-30 9	8.5				
17 10.5	-30.1	23390	17 11.0	-30 3	7.5				
17 11.6	-29.9	23421	17 12.0	-29 46	7.5	-29 13362	17 10.4	-29 44.3	7.5
17 17.2	-29.9	23546	17 17.5	-29 44	8.2				
17 17.6	-30.0	[[strike through]]	not-in A.G.C.	[[strike through]]					23555
18.0	-29 47	7 3/4	-29 13484	17 16.4	-29 44.5	7.7	Z.C.]		
17 25.3	-30.3	not-in A.G.C.				-30 14333	17 23.6	-30 8.6	8.5
17 33.4	-30.0	23904	17 33.0	-29 54	7.8				
17 37.7	-30.2	24014	17 37.1	-30 8	7.5				
17 2.1	-30.3	23189	17 2.4	-30 16	6.2				
17 8.7	-30.3	[[strike through]]	not-in A.G.C.	[[strike through]]					23349
9.1	-30 9	8.5	-30 13959	17 7.5	-30 7.1	8.7	Z.C.]		

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Plate 3665

[[table]]

[V|H|Cl.|No Rem.|K line|Int|

12.3	9.7	A		K=H	2	
12.5	12.0	A		N	3	
12.3	16.1	A		N	1	
12.4	16.2	A		N	1	
12.2	16.6	H		N	1	
12.3	17.0	F		677	K=H	2
12.9	23.6	F		678	K=H	2
12.8	24.4	A		N	2	
13.9	5.8	H		K=H	1	
13.4	6.8	A		K=H	2	
13.9	10.6	A		N	1	
13.3	14.8	A		N	2	
13.7	24.3	A		N	1	
15.0	6.6	A		N	1	
14.8	7.1	A		K=H	1	
14.2	10.7	A		K=0.2H	3	
14.6	11.7	A		K=H	2	
14.7	12.0	A		K=H	2	
14.8	12.6	F		679	K=H	1
14.2	14.8	A		K=H	2	
14.5	15.0	B		680	N	2
15.0	23.4	A		N	4	
14.2	23.6	E		K=H	1	
15.7	9.3	F		681	K=H	1
15.5	14.0	F		682	K=H	2
15.5	15.5	A		N	2	
15.4	15.9	F		683	K=H	1
15.1	16.1	A		K=H	1	

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K. H. Cl. Rem. K line Int

12.3	9.7	A		K=H	2	
12.5	12.0	A		N	3	
12.3	16.1	A		N	1	
12.4	16.2	A		N	1	
12.2	16.6	H		N	1	
12.3	17.0	F		677	K=H	2
12.9	23.6	F		678	K=H	2
12.8	24.4	A		N	2	
13.9	5.8	H		K=H	1	
13.4	6.8	A		K=H	2	
13.9	10.6	A		N	1	
13.3	14.8	A		N	2	
13.7	24.3	A		N	1	
15.0	6.6	A		N	1	
14.8	7.1	A		K=H	1	
14.2	10.7	A		K=0.2H	3	
14.6	11.7	A		K=H	2	
14.7	12.0	A		K=H	2	
14.8	12.6	F		679	K=H	1
14.2	14.8	A		K=H	2	
14.5	15.0	B		680	N	2
15.0	23.4	A		N	4	
14.2	23.6	E		K=H	1	
15.7	9.3	F		681	K=H	1
15.5	14.0	F		682	K=H	2
15.5	15.5	A		N	2	
15.4	15.9	F		683	K=H	1
15.1	16.1	A		K=H	1	

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[[10 columned table]]

R.A. 1900 | Dec. | No. A.G.C. | R.A 1900 | Dec. 1900 | Magn | No. C.D.M. |
R.A. | Dec. | Magn. |

17 10.0	-30.3	23376	17 10.5	17 15	7.4				
17 15.9	-30.6	23494	Not in A.G.C.	23494	17				
15.7	-30 24	8	-30 14090	17 14.1	-30 22.5	7.6	AGC		
17 25.6	-30.4	Not in A.G.C.			-30 14346	17 23.9	-30 18.1	8.4	ZC
17 26.0	-30.6				-30 143533	17 24.3	-30 21.5	8.5	ZC
17 26.9	-30.4	23771	17 26.6	-30 18	8				
17 28.0	-30.4	23800	17 27.6	-30 20	7.8				
17 42.8	-30.6	24177	17 42.8	-30 34	6.8				
		24225	17 44.8	-30 32	8				
17 45.1	-30.6	24226	17 44.8	-30 32	7				
17 1.2	-31.0	23162	17 1.3	-30 56	7.3				
17 4.0	-30.8	23212	17 3.7	-30 42	8				
17 12.5	-31.0	Not-in A.G.C.			-30 14028	17 11.0	-30 58.7	8.1	*ZC
17 22.2	-30.9	Not-in A.G.C.			-30 14256	17 20.7	-30 49.4	7.8	ZC
17 44.9	-31.0	Not-in A.G.C.			-30 14799	17 43.0	-30 55.6	7.9	ZC
17 3.0	-31.6	Not-in A.G.C.			-31 13630	17 1.3	-31 30.5	8.3	ZC
17 4.2	-31.5	23231	17 4.3	-31 26	8				
17 12.4	-31.3	23431	17 12.8	-31 16	7.6				
17 15.0	-31.6	23478	17 14.9	-31 29	8.2				
17 16.0	-31.6	23496	17 15.8	-31 30	8.5				
17 17.2	-31.7	23527	17 17.1	-31 37	8				
17 22.3	-31.4	23652	17 22.2	-31 18	7.8				
17 22.9	-31.6	23666	17 22.7	-31 27	7.5				
17 42.7	-31.7	24169	17 42.7	-31 40	5.5				
17 42.7	-31.4	Not in A.G.C.			-31 14612	17 41.2	-31 125	8.1	ZC
17 9.3	-32.0	Not in A.G.C.			-31 13763	17 7.7	-31 53.5	7.7	ZC
17 20.1	-32.0	23610	17 20.2	-31 56	7.5				
17 24.0	-32.1	23692	17 23.7	-32 2	7.2				
17 24.9	-32.0	23725	17 24.9	-31 53	8.2				
17 25.2	-31.9	23730	17 25.1	-31 47	8.5				

*{"-31° 13832 17 11.0-31 3.3 8.3 (Class A).superposed-"Mrs F.
examined on spec. plate B20242 &. chart plate.

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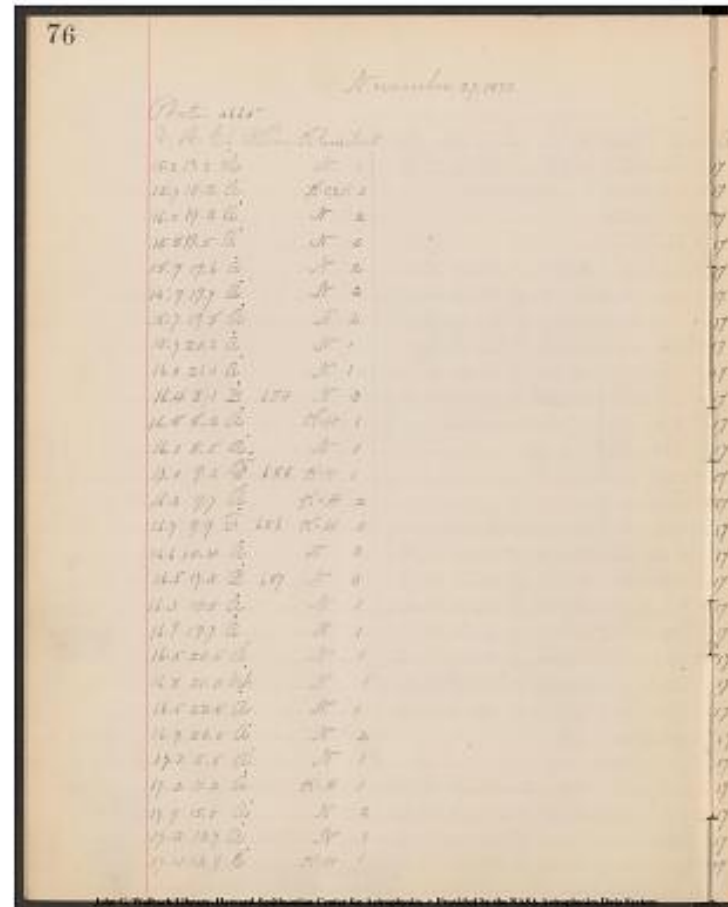
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Plate 3665

[[table]]

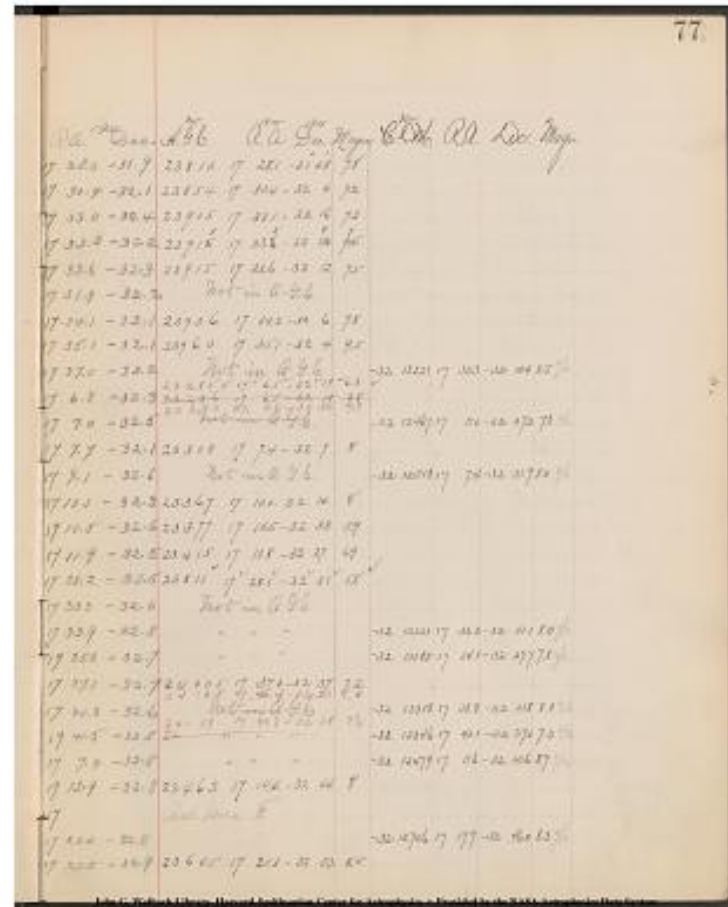
|V|H|Cl.|No. Rem|K line|Int|

V H Cl. No. Rem K line Int
15.2 17.2 H N 1
15.7 18.2 A K=O.2H 3
16.0 19.3 A N 2
15.8 19.5 A N 3
15.9 19.6 A N 2
15.9 19.7 A N 2
15.7 19.8 A N 2
15.7 20.2 A N 1
16.0 21.0 A N 1
16.4 8.1 B 684 N 3
16.8 8.2 A K=H 1
16.1 8.5 A N 1
17.0 9.3 F 685 K=H 1
16.3 9.7 A K=H 2
16.7 9.9 F 686 K=H 3
16.6 10.4 A N 3
16.5 17.3 B 689 N 3
16.3 19.5 A N 1
16.9 19.7 A N 1
16.5 20.5 A N 1
16.8 21.0 Mb N 1
16.5 22.5 A N 1
16.9 23.0 A N 2
17.3 8.5 A N 1
17.2 11.2 A K=H 1
17.9 15.0 A N 2
17.3 13.7 A N 1
17.4 13.9 E K=H 1



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[[table]]
R.A. Dec. 1900 | A.G.C. No. | R.A. 1900 | Dec. 1900 | No. C.D.M. | R.A. |
Dec. | Magn. |
|---|---|---|---|---|---|
17 28.0 -31.9 | 23810 | 17 28.1 -31 | ~~48~~ | 7.8 | | |
|
17 30.4 -32.1 | 23854 | 17 30.4 -32 | 47.2 | | | |
17 33.0 -32.4 | 23905 | 17 33.1 -32 | 16 | 7.2 | | | |
|
17 33.3 -32.2 | 23911 | ~~5~~ | 17 33.5
~~6~~ | ~~32~~ | ~~9~~ | 12
~~7~~ | ~~7.5~~ | | | |
17 33.6 -32.3 | 23915 | 17 33.6 -32 | 12 | 7.5 | | | |
17 31.9 -32.2 | not in A.G.C. | | | | | |
17 34.1 -32.1 | 23936 | 17 34.2 -32 | 6 | 7.8 | | | |
17 35.1 -32.1 | 23960 | 17 35.1 -32 | 6 | 9.5 | | | |
17 37.0 -32.2 | not in A.G.C. | | | -32 | 13221 | 17 35.3 -32 | 10.4 | 8.5 | ZC |
17 6.8 -32.3 | 23285 | 17 6.5 -32 | 19 | 6.3 | ~~23286~~ | 17 6.5 -32
19 | 9.8 | ~~23286~~ | | | | | |
17 7.0 -32.5 | 23290 | 17 6.6 -32 | 30 | 7.8 | ~~not in A.G.C.~~
~~32~~ | 12467 | 17 5.0 -32 | 27.2 | 7.8 | ZC |
17 7.7 -32.1 | 23308 | 17 7.4 -32 | 7 | 8 | | | | |
17 9.1 -32.6 | not in A.G.C. | | | -32 | 12518 | 17 7.4 -32 | 31.9 | 8.0 | 36 |
17 10.1 -32.3 | 23367 | 17 10.0 -32 | 14 | 8 | | | | |
17 10.5 -32.6 | 23377 | 17 10.5 -32 | 33 | 5.9 | | | | |
17 11.9 -32.5 | 23415 | 17 11.8 -32 | 27 | 6.9 | | | | |
17 28.2 -32.5 | 23811 | 17 28.1 -32 | 31 | 5.8 | | | | |
17 33.3 -32.6 | not in A.G.C. | | | | | | | |
17 33.9 -32.8 | | | | -32 | 13121 | 17 32.3 -32 | 41.1 | 8.0 | ZC |
17 35.6 -32.7 | | | | -32 | 13185 | 17 34.1 -32 | 27.7 | 7.8 | ZC |
17 37.1 -32.7 | 24005 | 17 37.0 -32 | 37 | 7.2 | | | | |
17 40.3 -32.6 | 24105 | 17 40.4 -32 | 23 | 8.0 | ~~not in A.G.C.~~
~~32~~ | 13318 | 17 38.8 -32 | 21.8 | 8.0 | GC |
17 41.5 -32.8 | 24139 | 17 41.7 -32 | 38 | 7 1/4 | ~~not in A.G.C.~~
~~32~~ | 13346 | 17 40.1 -32 | 37.0 | 7.3 | GC |
17 7.4 -32.8 | not in A.G.C. | | | -32 | 12479 | 17 5.6 -32 | 41.6 | 8.7 | ZC |
17 13.9 -32.8 | 23463 | 17 14.4 -32 | 44 | 8 | | | | |
17 | ask Ms. F | | | | | | | |
17 20.0 -32.8 | | | | -32 | 12726 | 17 17.9 -32 | 46.0 | 8.3 | ZC |
17 20.5 -32.9 | 23605 | 17 20.0 -32 | 53 | 8.5 | | | | |
[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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Plate 3665

[[table]]

V | H | CI | No Rem | K line | Int |

17.5	16.6	B	688	N	2
17.2	18.8	A		N	2
17.6	18.9	A		N	1
17.8	19.5	A		N	1
17.6	20.8	H		N	1
17.4	21.1	A		N	1
17.6	23.5	A		N	1
18.3	8.1	A		N	2
18.2	8.4	A		N	2
19.0	9.1	A		N	1
18.5	9.3	A?	689	N	3
18.9	9.5	A		N	2
18.1	10.0	F	690	K=H	1
18.4	10.6	A		K=H	1
18.8	15.3	B	691	N	2
18.7	16.0	J		K=H	2
18.5	20.3	E		K=H	1
19.2	9.4	A		N	1
19.8	13.5	A		K=H	2
19.6	14.0	A		N	2
19.9	16.3	F	692	K=H	3
19.6	16.9	A		N	1
19.2	17.7	A		N	1
20.0	18.4	A		K=0.5H	1
19.6	20.1	A		N	2
20.0	20.5	A		K=H	1
19.7	20.9	A		N	2
20.0	21.5	A		N	1

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November 27, 1892

Plate 3665

V	H	CI	No Rem	K line	Int
17.5	16.6	B	688	N	2
17.2	18.8	A		N	2
17.6	18.9	A		N	1
17.8	19.5	A		N	1
17.6	20.8	H		N	1
17.4	21.1	A		N	1
17.6	23.5	A		N	1
18.3	8.1	A		N	2
18.2	8.4	A		N	2
19.0	9.1	A		N	1
18.5	9.3	A?	689	N	3
18.9	9.5	A		N	2
18.1	10.0	F	690	K=H	1
18.4	10.6	A		K=H	1
18.8	15.3	B	691	N	2
18.7	16.0	J		K=H	2
18.5	20.3	E		K=H	1
19.2	9.4	A		N	1
19.8	13.5	A		K=H	2
19.6	14.0	A		N	2
19.9	16.3	F	692	K=H	3
19.6	16.9	A		N	1
19.2	17.7	A		N	1
20.0	18.4	A		K=0.5H	1
19.6	20.1	A		N	2
20.0	20.5	A		K=H	1
19.7	20.9	A		N	2
20.0	21.5	A		N	1

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]									
R.A. 1900 Dec. No. A.G.C. 1900 R.A 1900 Dec. Magn. C.D.M.									
R.A. Dec. Magn.									
----- ----- ----- -----									
17 26.2	-33.1	23769	17 26.5	-32 59	7.5	-32 12883	17 24.9	-32 58.1	7.5
ZC.]									
17 32.0	-32.9	23873	17 31.7	-32 49	8.8				
17 32.1	-33.1	not in A.G.C.				-32 13044	17 30.4	-32 58.7	8.3 ZC.]
17 32.9	-33.2	not in A.G.C.				-33 12328	17 31.7	-33 4.3	8.5 ZC.]
17 36.5	-33.0	not in A.G.C.				-32 13208	17 34.9	-32 59.2	6.7 W.A
17 37.0	-32.9	24017^	[[24016]]	17 37.1^	[[17 37.1]]	-32 53^	[[32		
53]] 8.5^ [[9.5]]									
17 43.1	-33.0	not in A.G.C.				-32 13379	17 41.3	-32 55.3	8.2 ZC.]
17 6.0	-33.3	23277	17 6.2	-33 14	8.2				
17 6.8	-33.3	23294	17 6.9	-33 13	8				
17 8.3	-33.8	23332	17 8.4	-33 38	7.8				
17 8.7	-33.5	23337	17 8.7	-33 26	5.8				
17 9.1	-33.7	23352	17 9.2	-33 37	6.9				
17 10.5	-33.3	not in A.G.C.				-33 11919	17 8.9	-33 7.9	8.6 ZC]
17 12.2	-33.4	not in A.G.C.				-33 11952	17 10.5	-33 18.0	7.5 ZC]
17 23.7	-33.7	23685	17 23.5	-33 38	6.8				
17 25.3	-33.7	23732	17 25.2	-33 37	6.6				
17 35.0	-33.5	23965	17 35.3	-33 27	6.9				
17 9.0	-33.8	not in A.G.C.				-33 11882	17 7.4	-33 41.5	8.0 ZC.]
17 18.6	-34.3	23575	17 18.7	-34 10	7.3	-34 11679	17 17.0	-34 7.7	7.4
ZC]									
17 20.0	-34.0	23606	17 20.0	-34 11	7.8				
17 25.5	-34.2	23750	17 25.8	-34 12	6.4				
17 27.2	-34.0	23795	17 27.4	-34 0	9				
17 29.1	-33.9	not in A.G.C.				-33 12235	17 27.7	-33 45.8	8.5 ZC.]
17 31.0	-34.3	23863	17 31.0	-34 17	7.2				
17 34.3	-34.1	23953	17 34.9	-34 11	8				
17 35.7	-34.3	23976	17 36.0	-34 16	9				
17 36.4	-34.1	23971	17 35.7	-34 5	8.8				
17 38.0	-34.2	not in A.G.C.				-34 12020	17 36.7	-34 8.7	8.8 ZC]
[[/table]]									

79									
1836. 1836. 1836. 1836. 1836. 1836. 1836. 1836. 1836. 1836.									
17 26.2	-33.1	23769	17 26.5	-32 59	7.5	-32 12883	17 24.9	-32 58.1	7.5
17 32.0	-32.9	23873	17 31.7	-32 49	8.8				
17 32.1	-33.1	not in A.G.C.				-32 13044	17 30.4	-32 58.7	8.3 ZC.]
17 32.9	-33.2	not in A.G.C.				-33 12328	17 31.7	-33 4.3	8.5 ZC.]
17 36.5	-33.0	not in A.G.C.				-32 13208	17 34.9	-32 59.2	6.7 W.A
17 37.0	-32.9	24017^	[[24016]]	17 37.1^	[[17 37.1]]	-32 53^	[[32		
53]] 8.5^ [[9.5]]									
17 43.1	-33.0	not in A.G.C.				-32 13379	17 41.3	-32 55.3	8.2 ZC.]
17 6.0	-33.3	23277	17 6.2	-33 14	8.2				
17 6.8	-33.3	23294	17 6.9	-33 13	8				
17 8.3	-33.8	23332	17 8.4	-33 38	7.8				
17 8.7	-33.5	23337	17 8.7	-33 26	5.8				
17 9.1	-33.7	23352	17 9.2	-33 37	6.9				
17 10.5	-33.3	not in A.G.C.				-33 11919	17 8.9	-33 7.9	8.6 ZC]
17 12.2	-33.4	not in A.G.C.				-33 11952	17 10.5	-33 18.0	7.5 ZC]
17 23.7	-33.7	23685	17 23.5	-33 38	6.8				
17 25.3	-33.7	23732	17 25.2	-33 37	6.6				
17 35.0	-33.5	23965	17 35.3	-33 27	6.9				
17 9.0	-33.8	not in A.G.C.				-33 11882	17 7.4	-33 41.5	8.0 ZC.]
17 18.6	-34.3	23575	17 18.7	-34 10	7.3	-34 11679	17 17.0	-34 7.7	7.4
ZC]									
17 20.0	-34.0	23606	17 20.0	-34 11	7.8				
17 25.5	-34.2	23750	17 25.8	-34 12	6.4				
17 27.2	-34.0	23795	17 27.4	-34 0	9				
17 29.1	-33.9	not in A.G.C.				-33 12235	17 27.7	-33 45.8	8.5 ZC.]
17 31.0	-34.3	23863	17 31.0	-34 17	7.2				
17 34.3	-34.1	23953	17 34.9	-34 11	8				
17 35.7	-34.3	23976	17 36.0	-34 16	9				
17 36.4	-34.1	23971	17 35.7	-34 5	8.8				
17 38.0	-34.2	not in A.G.C.				-34 12020	17 36.7	-34 8.7	8.8 ZC]
[[/table]]									

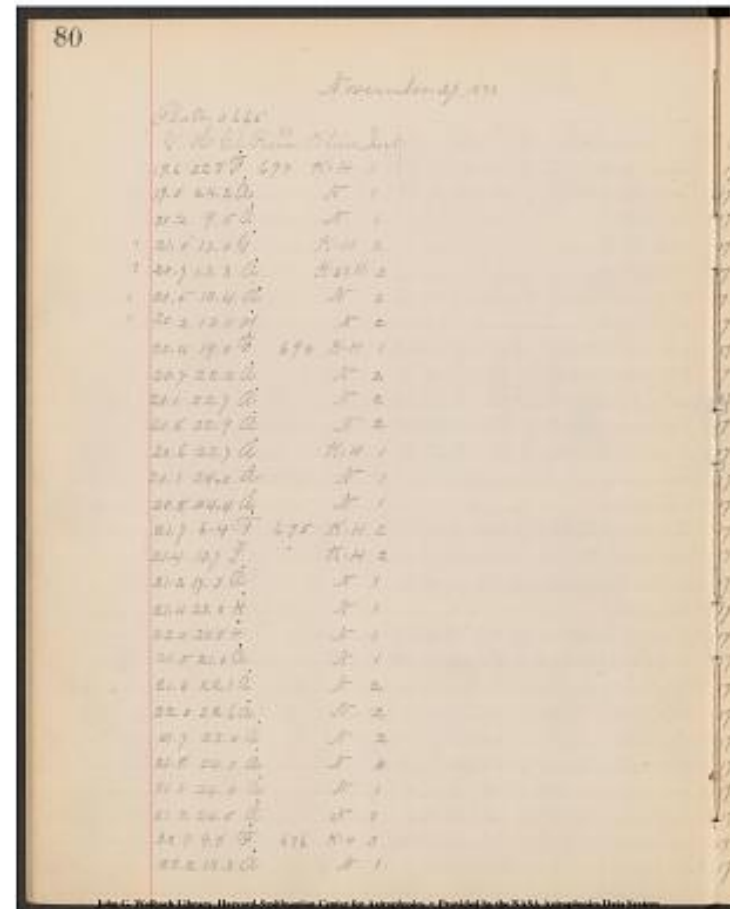
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Plates, Southern Draper Catalogue #61
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November 27, 1892

Plate 3665

[[table]]

V	H	Cl	No Rem	K line	Int
19.6	22.8	F	693	K=H	1
19.5	24.2	A		N	1
20.2	9.5	A		N	1
21.0	13.0	G		K=H	2
20.7	13.3	A		K=0.2H	3
20.5	13.4	A		N	2
20.2	13.5	H		N	2
20.4	19.0	F	694	K=H	1
20.7	22.2	A		N	2
20.1	22.7	A		N	2
20.8	22.9	A		N	2
20.6	23.7	A		K=H	1
20.1	24.0	A		N	1
20.8	24.4	A		N	1
21.7	6.4	F	695	K=H	2
21.4	10.7	I		K=H	2
21.2	17.3	A		N	1
21.4	20.0	H		N	1
22.0	20.8	H		N	1
21.5	21.0	A		N	1
21.3	22.1	A		N	2
22.0	22.6	A		N	2
21.7	23.0	A		N	2
21.8	24.0	A		N	2
21.3	24.3	A		N	1
21.2	24.5	A		N	3
22.9	9.8	F	696	K=H	3
22.2	12.3	A		N	1

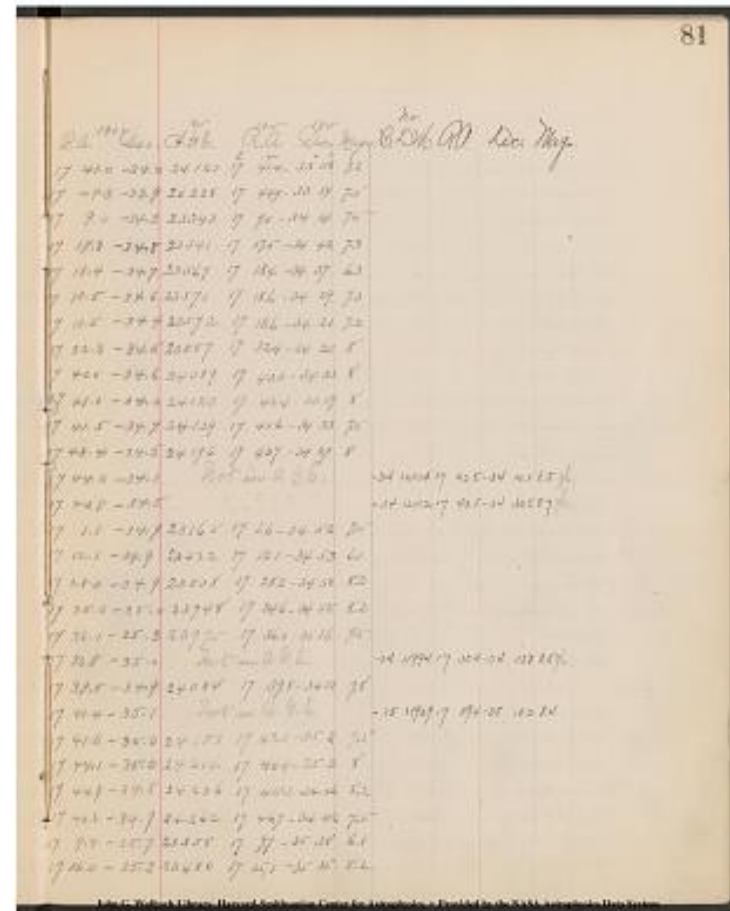


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[10 column table]]

R.A.|1900 Dec.|no. A.G.C.|R.A 1900|Dec. 1900|Magn|No.
C.D.M.|R.A.|Dec.|Magn.]

17 41.0	-34.0	24121	17 41.4 ^h	[m]	-33° 58'	7.2			
17 44.3	-33.9	24228	17 44.9	-33 59	7.5				
17 9.0	-34.3	23343	17 9.0	-34 14	7.5				
17 17.3	-34.8	23541	17 17.5	-34 42	7.3				
17 18.4	-34.7	23567	17 18.4	-34 37	6.3				
17 18.5	-34.6	23571	17 18.6	-34 29	7.3				
17 18.5	-34.4	23572	17 18.6	-34 21	7.2				
17 32.3	-34.5	23887	17 32.4	-34 25	8				17 40.0-
34.6	24089	17 40.0	-34 33	8					
17 41.0	-34.0	24123	17 41.4	-33 59	8				
17 41.5	-34.7	24129	17 41.6	-34 33	7.5				
17 43.4	-34.5	24196	17 43.7	-34 27	8				
17 44.0	-34.1	not in A.G.C.				-34 12	134	17 42.5	-34 10.1 8.5 ZC
17 44.8	-34.5	not in A.G.C.				-34 12	152	17 43.5	-34 30.5 8.7 ZC
17 1.8	-34.9	23165	17 1.6	-34 52	7.5				
17 12.1	-34.9	23422	17 12.1	-34 53	6.1				
17 28.0	-34.9	23808	17 28.2	-34 50	8.2				
17 35.0	-35.0	23948	17 34.6	-34 55	8.2				
17 36.1	-35.3	23975	17 36.0	-35 16	9.5				
17 36.8	-35.0	not in A.G.C.				-34 11	994	17 35.4	-34 53.8 8.5 ZC
17 39.5	-34.9	24084	17 39.8	-34 51	7.8				
17 40.4	-35.1	not in A.G.C.				-35 11	929	17 39.4	-35 10.2 8.4
17 41.6	-35.0	24151	17 42.1	-35 2	7.5				
17 44.1	-35.0	24214	17 44.4	-35 3	8				
17 44.9	-34.8	24236	17 45.3	-34 46	8.2				
17 46.3	-34.7	24262	17 46.7	-34 42	7.5				
17 9.4	-35.7	23358	17 9.7	-35 38	6.1				
17 16.0	-35.3	23480	17 15.1	-35 15	8.2				



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Plate 3665

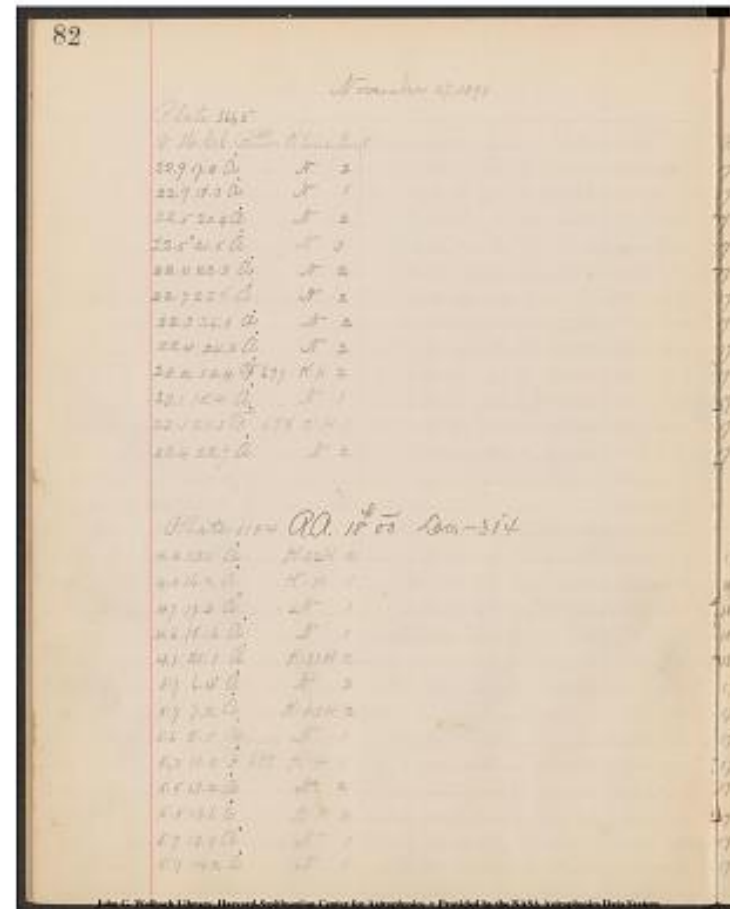
[[6 Column Table]]

V | H | Cl | No Rem | K line | Int |

22.9	17.0	A		N	2
22.9	18.3	A		N	1
22.5	20.4	A		N	2
22.5	21.5	A		N	3
22.4	23.3	A		N	2
22.7	23.8	A		N	2
22.3	24.0	A		N	2
22.4	24.3	A		N	2
23.2	12.4	F	697	K=H	2
23.1	15.4	A		N	1
23.1	20.3	F	698	K=H	1
23.4	22.7	A		N	2

Plate 5184 R.A. $18^{\text{h}} 00^{\text{m}}$ Dec. $-31^{\circ} 4'$

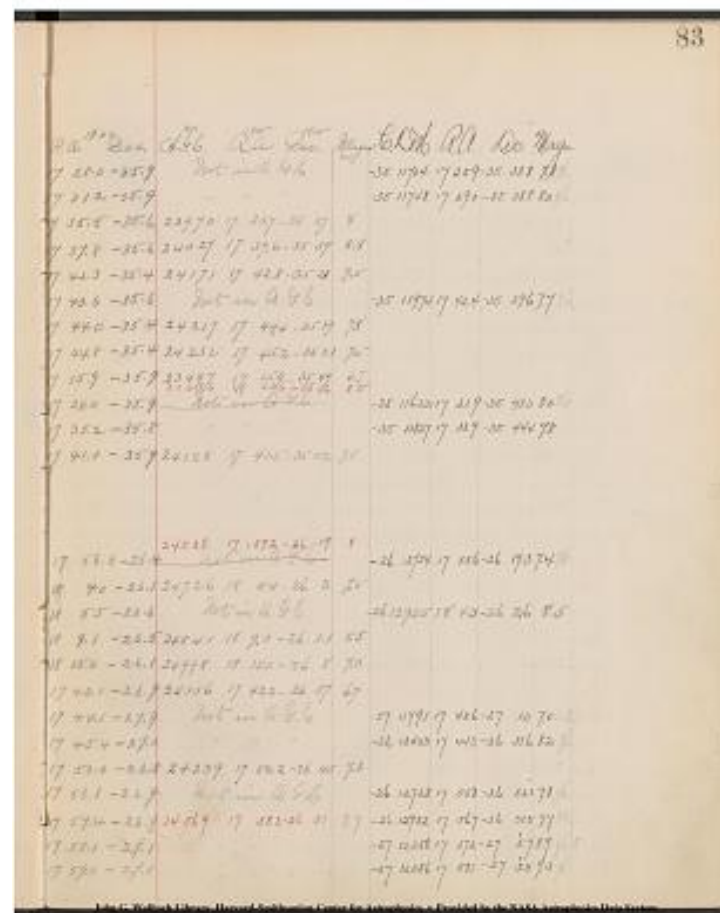
4.4	13.1	A		K=0.2H	2
4.0	16.2	A		K=H	1
4.7	17.0	A		N	1
4.6	18.6	A		N	1
4.1	21.1	A		K=0.3H	2
5.7	6.4	A		N	2
5.9	7.2	A		K=0.5H	2
5.6	8.0	A		N	1
5.3	10.0	F	699	K=H	1
5.5	13.2	A		N	2
5.5	13.6	E		K=H	2
5.9	13.9	A		N	1
5.9	14.2	A		N	1



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[10 column table]										
R.A.	1900	Dec. 1900	No.	A. G. C.	1900	R.A.	1900	Dec.	Magn.	C. D. M.
R.A.	Dec.	Magn.								
17 28.0	-35.9	Not in A. G. C.				-35 11704	17 25.9	-35 38.8	7.8	ZC
17 31.2	-35.9	Not in A. G. C.				-35 11748	17 29.0	-35 38.8	8.0	ZC
17 35.5	-35.6	23970	17 35.7	-35 27	8					
17 37.8	-35.6	24027	17 37.6	-35 39	8.8					
17 42.3	-35.4	24171	17 42.8	-35 21	7.5					
17 43.6	-35.6	Not in A. G. C.				-35 11974	17 42.4	-35 29.6	7.7	ZC
17 44.0	-35.4	24217	17 44.4	-35 19	7.8					
17 44.8	-35.4	24232	17 45.2	-35 21	7.5					
17 15.9	-35.9	23497	17 15.9	-35 49	6.7					
17 24.0	-35.9	Not in A. G. C.								
23.6	-35 46	8.5	-35 11632	17 21.9	-35 45.3	8.0	GC			
17 35.2	-35.8	Not in A. G. C.								
23.6	-35 46		-35 11827	17 33.9	-35 44.7	8				
17 41.0	-35.9	24128	17 41.5	-35 52	7.5					
17 56.6	-26.4	Not in A. G. C.								
57.2	-26 19	8	-26 12724	17 55.6	-26 19.3	7.4	GC			
18 4.0	-26.1	24726	18 4.4	-26 3	7.5					
18 5.5	-26.6	Not in A. G. C.				-26 12925	18 4.3			-26 2.6
18 9.1	-26.5	24841	18 9.0	-26 21	8.5					
18 15.0	-26.1	24998	18 15.0	-26 8	7.0					
17 42.1	-26.9	24156	17 42.2	-26 57	6.7					
17 44.1	-27.9	Not in A. G. C.				-27 11991	17 42.6	-27 1.0	7.0	VA
17 45.4	-27.0	Not in A. G. C.				-26 12453	17 44.3	-26 51.6	8.2	ZC
17 50.0	-26.8	24339	17 50.2	-26 45	7.3					
17 56.8	-26.9	Not in A. G. C.				-26 12728	17 55.8	-26 52.1	7.8	ZC
17 57.4	-26.9	24569	17 58.3	-26 51	7.7	-26 12752	17 56.7	-26 51.5	7.7	GC
17 58.1	-27.1	24569	17 58.3	-26 51		-27 12358	17 57.2	-27 5.7	8.9	ZC?
17 59.0	-27.1	24569	17 58.3	-26 51		-27 12386	17 58.1	-27 5.0	9.3	ZC

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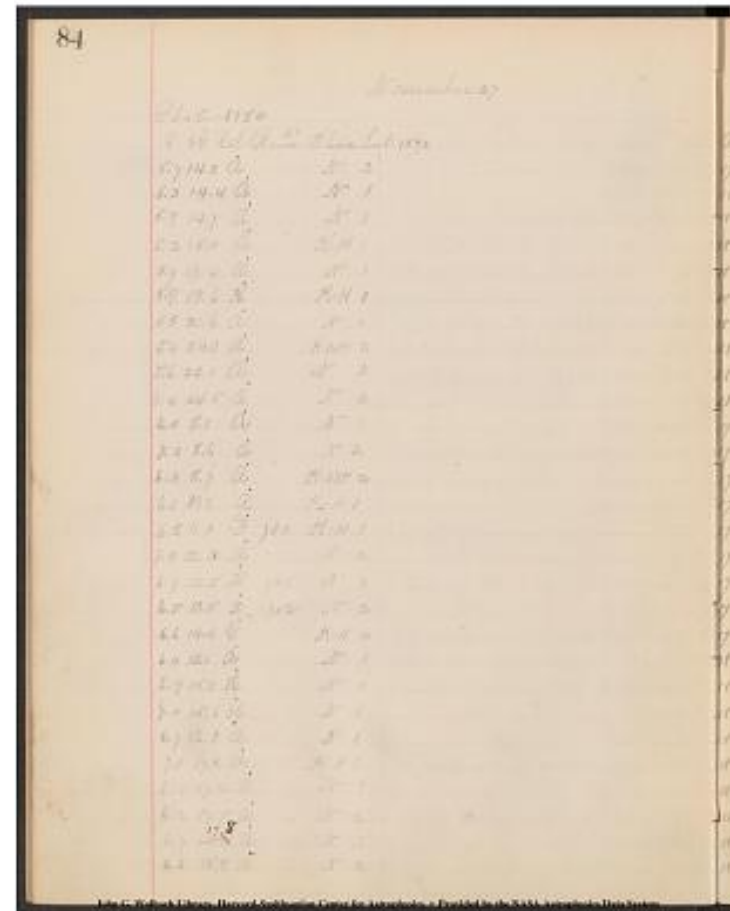
Plate 5184

[[table]]

V|H|C|No Rem|K line|Int.|1892

5.7	14.3	A		N 2
5.3	14.4	A		N 1
5.9	14.7	A		N 1
5.2	15.0	A		K=H 1
5.7	17.4	A		N 1
5.9	19.6	K		K=H 3
5.8	21.6	A		N 1
5.4	24.0	A		K=0.5H 2
5.6	24.1	A		N 2
5.4	24.5	A		N 2
6.0	8.3	A		N 1
7.0	8.6	A		N 2
6.3	8.7	A		K=0.3H 2
6.1	10.2	A		K=H 1
6.8	11.0	F700		K=H 1
7.0	12.3	A		N 2
6.7	12.5	B701		N 2
6.5	13.5	B702		N 2
6.6	14.4	G		K=H 2
6.6	15.1	A		N 1
6.9	15.3	H		N 1
7.0	15.6	H		N 1
6.7	16.3	A		N 1
7.0	17.2	A		K=H 1
6.2	17.2	A		N 1
6.2	17.5	A		N 2
6.7	18.8	18.8		17.8 A N 3
6.6	18.8	A		N 2

[[/table]]

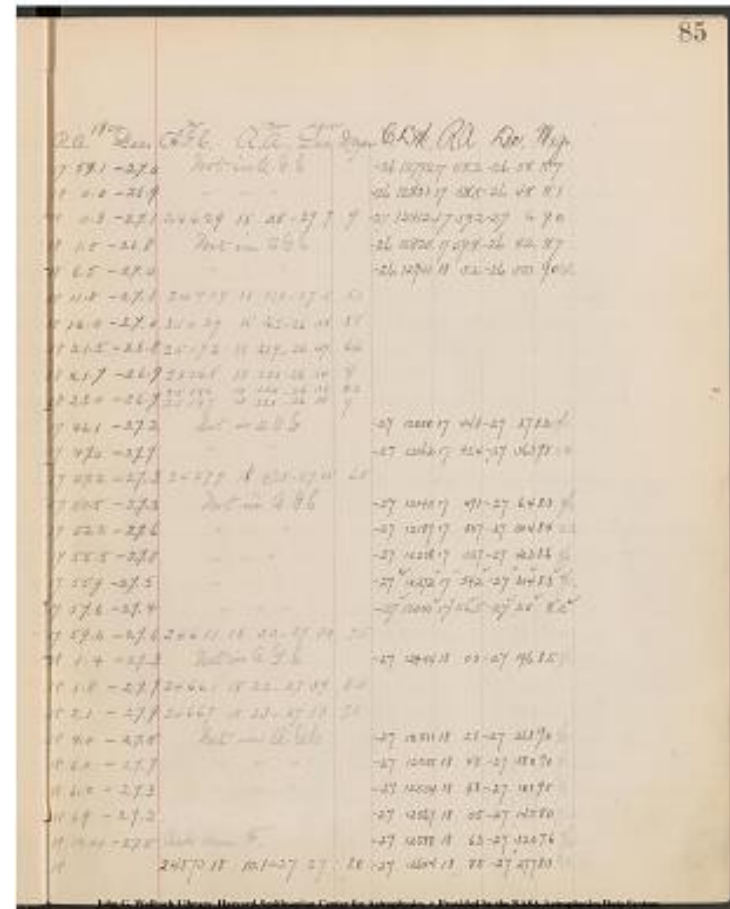


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[[10 column table]]

R.A. 1900 | Dec 1900 | no A.G.C. | R.A. 1900 | Dec 1900 | Magn |
C.D.M. | RA | Dec. | Magn |

17 59.1	-27.0	Not in A.G.C.				-26 12792	17 58.2	-26 58	8.7
18 0.0	-26.9	Not in A.G.C.				-26 12801	17 58.5	-26 48	8.1
18 0.3	-27.1	24629	18 0.8	-27 7	9	-27 12412	17 59.2	-27 6	9.0
18 1.5	-26.8	Not in A.G.C.				-26 12825	17 59.8	-26 42	8.7
18 6.5	-27.0	Not in A.G.C.				-26 12941	18 5.2	-26 55.1	9.0 QA
18 11.8	-27.1	24919	18 11.8	-27 5	5.1				
18 16.0	-27.0	25029	18 16.2	-26 58	8.8				
18 21.5	-26.8	25172	18 21.9	-26 49	6.6				
18 21.7	-26.9	25168	18 21.8	-26 54	9				
18 23.0	-26.4	25197	18 22.8	[[25196]]		18 22.8	[[18 22.8]]	-26 38	[[26 39]]
17 46.1	-27.2	Not in A.G.C.				-27 12050	17 44.8	-27 3.7	8.2 ZC.
17 47.0	-27.7	Not in A.G.C.				-27 12062	17 45.4	-27 36.3	7.8 oa
17 47.2	-27.3	24279	1	[[strike through]]	8	[[strike through]]	7 47.3	-27 15	6.8
17 50.5	-27.3	Not in A.G.C.				-27 12143	17 49.1	-27 6.4	8.3 ZC.
17 52.2	-27.6	Not in A.G.C.				-27 12184	17 50.7	-27 30.4	8.4oa
17 55.5	-27.8	Not in A.G.C.				-27 12258	17 53.7	-27 40.3	8.6 ZC.
17 55.9	-27.5	Not in A.G.C.				-27 12272	17 54.2	-27 30.4	8.3 ZC.
17 57.6	-27.4	Not in A.G.C.				-27 12341	17 56.5	-27 23	8.2
17 59.6	-27.6	24611	18 0.0	-27 30	7.5				
18 1.4	-27.3	Not in A.G.C.				-27 12444	18 0.3	-27 19.6	8.5 ZC.
18 1.8	-27.7	24661	18 2.2	-27 39	8.5				
18 2.1	-27.9	24667	18 2.3	-27 53	7.8				
18 4.0	-27.5	Not in A.G.C.				-27 12511	18 2.8	-27 26.8	9.0 ZC.
18 6.0	-27.7	Not in A.G.C.				-27 12555	18 4.8	-27 38.0	9.0 ZC.
18 6.0	-27.3	Not in A.G.C.				-27 12554	18 4.8	-27 10.1	9.5 ZC.
18 6.9	-27.3	Not in A.G.C.				-27 12567	18 5.5	-27 14.5	8.0 ZC.
18 10.00	-27.5	Ask Mrs. F.				-27 12588	18 6.3	-27 32.0	7.6 ZC.
18	24873	18 10.1	-27 27	8.0	-27 12644	18 8.5	-27 27.7	8.3 ZC.	

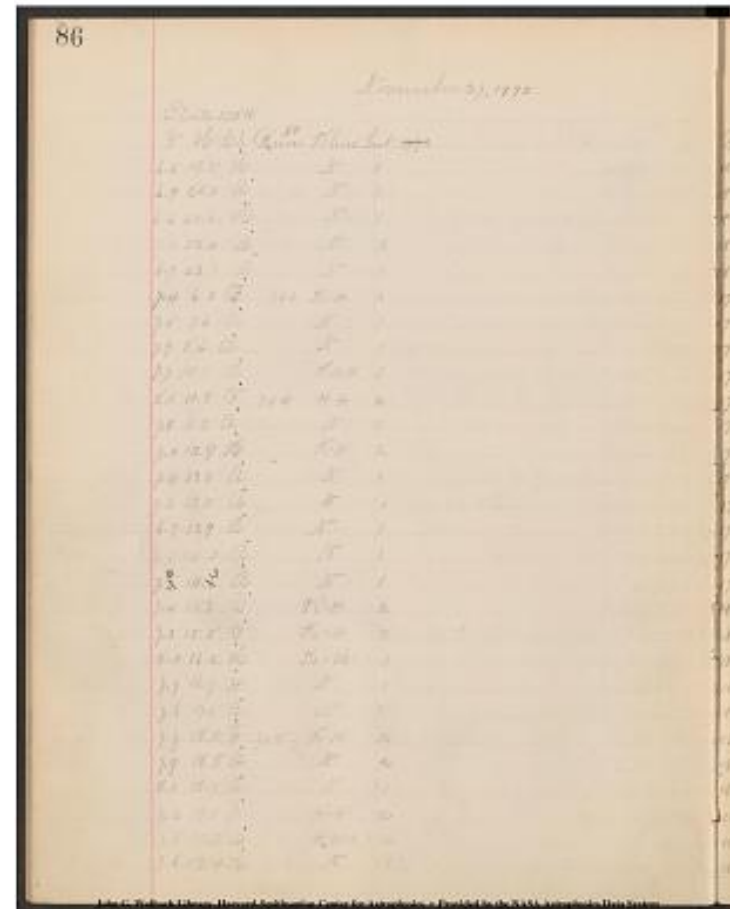


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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November 27, 1892
Plate 5184

[[6 Column Table]]
[V|H|Cl|No Rem|K line|Int ~~1892~~]]

6.5|19.5|H| |N|1|
6.9|20.3|A| |N|1|
6.6|20.6|H| |N|1|
7.0|22.0|A| |N|2|
6.7|23.1|A| |N|1|
7.4|6.0|F|703|K=H|3|
7.5|7.6|A| |N|1|
7.9|8.6|A| |N|1|
7.7|10.1|A| |K=0.5H|3|
8.0|10.8|F|704|K=H|2|
7.8|11.3|A| |N|1|
7.3|12.9|H| |K=H|2|
7.4|13.0|A| |N|1|
7.2|13.3|A| |N|1|
6.9|13.9|A| |N|1|
7.1|14.0|A| |N|1|
7. ~~3~~ | ~~14.0~~ | ~~3~~ | ~~0~~ | ~~14.0~~ | ~~0~~ |
 ~~3~~ |H| |N|1|
7.4|15.3|G| |K=H|2|
7.3|15.5|G| |K=H|2|
8.0|16.2|H| |K=H|1|
7.7|16.4|H| |N|1|
7.6|17.5|A| |N|1|
7.7|18.0|F|705|K=H|2|
7.9|18.5|A| |N|2|
8.0|18.7|A| |N|1|
7.2|19.1|J| |K=H|2|
7.5|19.3|A| |K=0.2H|2|
7.6|19.4|A| |N|1|

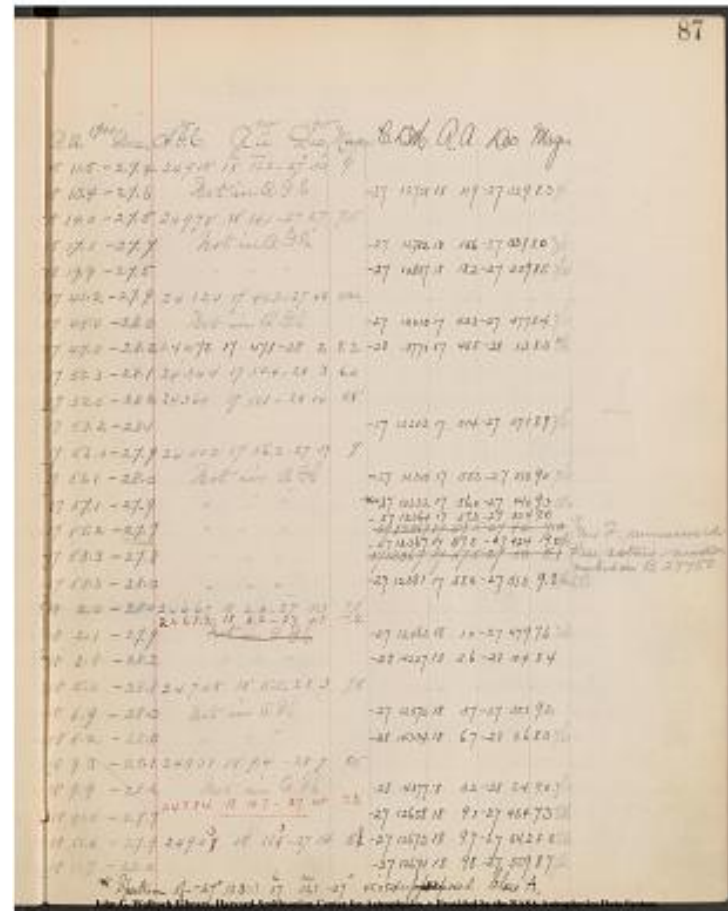


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[10 column table]]

R.A. 1900. | Dec. | no A.G.C. | R.A. 1900 | Dec 1900 | Magn | C.D.M. |
R.A. | Dec. | Magn |

18 11.5	-27.4	24900	18 h 11.2 m	-27 ^h 32 ^m 9					
18 13.4	-27.6	Not in A.G.C.		-27 12721	18 11.9	-27 32.9	8.3	zC	
18 14.0	-27.5	24978	18 14.1	-27 27	7.5				
18 17.1	-27.7	Not in A.G.C.		-27 12782	18 15.6	-27 33.9	8.0	zC	
18 19.9	-27.5	Not in A.G.C.		-27 12837	18 18.2	-27 23.9	8.5	zC	
17 41.2	-27.9	24120	17 41.3	-27 48	var				
17 45.0	-28.0	Not in A.G.C.		-27 12010	17 43.3	-27 47.7	8.4	zC	
17 47.0	-28.2	24273	17 47.1	-28 2	8.2	-28 13771	17 45.5	-28 1.3	8.3
GC									
17 50.3	-28.1	24344	17 50.4	-28 3	6.0				
17 52.0	-28.2	24364	17 51.1	-28 14	8.8				
17 53.2	-28.1			-27 12203	17 51.4	-27 57.1	8.9	zC	
17 56.0	-27.9	24502	17 56.2	-27 57	9				
17 56.1	-28.0	Not in A.G.C.		-27 12310	17 55.3	-27 51.0	9.0	zC	
17 57.1	-27.9	Not in A.G.C.		[[12310]]	x	[[12310]]			
27 12332	17 56.0	-27 44.0	9.3 o.a						
17 58.2	-27.7	Not in A.G.C.		[[12367]]	17 57.3	-27 57.3			
27 42	9.0	[[12367]]	-27 12364	17 57.3	-27 33.4	9.0	[[? Mrs. F. remeasured]]		
17 58.3	-27.8	Not in A.G.C.		[[12369]]	17 57.5	-27 50	8.1	[[12369]]	-27 12367
27 50	8.1	[[12369]]	-27 12367	17 57.5	-27 42.4	9.0	zC	[[these 3 stars and are marked on B27750]]	
17 58.3	-28.0	Not in A.G.C.		-27 12381	17 58.0	-27 51.5			
9.8ZC	[[12381]]								
18 2.0	-28.0	24667	18 2.3	-27 53	7.8				
18 2.1	-27.9	[[12463]]	Not in A.G.C.	[[12463]]	24682	18 2.6	-27 48	7.2	-27 12463
18 3.8	-28.2	Not in A.G.C.		-28 14227	18 2.6	-28 10.4	8.4		
18 5.0	-28.1	24748	18 5.5	-28 3	7.8				
18 6.9	-28.0	Not in A.G.C.		-27 12572	18 5.7	-27 55.1	9.2		
18 8.2	-28.0	Not in A.G.C.		-28 14334	18 6.7	-28 0.6	8.3	zC	
18 9.3	-28.1	24851	18 9.4	-28 7	8.5				
18 9.9	-28.2	Not in A.G.C.		-28 14377	18 3.2	-28 8.4	9.0	zC	
18 11.0	-27.7	24884	[[<u>18 10.7</u>]]	[[<u>18 10.7</u>]]	[[<u>18 10.7</u>]]				
27	[[<u>18 10.7</u>]]	45	7.2	-27 12658	18 9.1	-27 45.4	7.3	GC	
18 11.6	-27.9	24903	[[18 11.6]]	[[18 11.6]]	18 11.3	[[18 11.3]]	[[18 11.3]]	[[18 11.3]]	[[18 11.3]]
11.3	[[18 11.3]]	[[18 11.3]]	[[18 11.3]]	-27 54	8.0				
[[18 11.3]]	[[18 11.3]]	[[18 11.3]]	[[18 11.3]]	-27 12672	18 9.7	-27 54.2	8.0	GC	
18 11.7	-28.0			-27 12674	18 9.8	-27 55.9	8.7	zC	

*Spectrum of -27° 12333 17^h 56.1^m -27° 45.09.2 superposed.
Class A.

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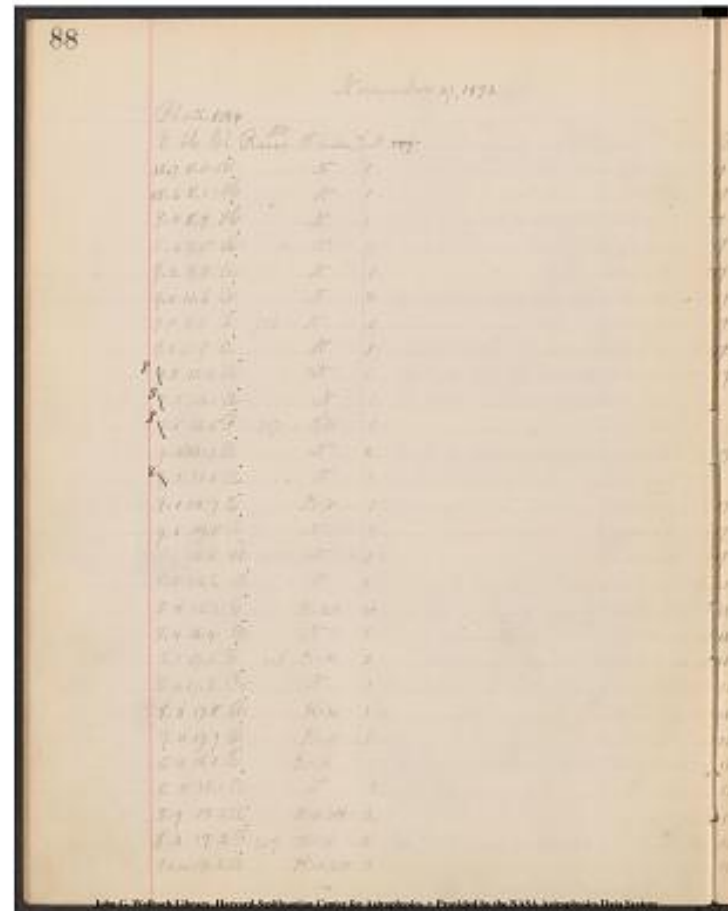
November 27, 1892

Plate 5184

[[6 column table]]

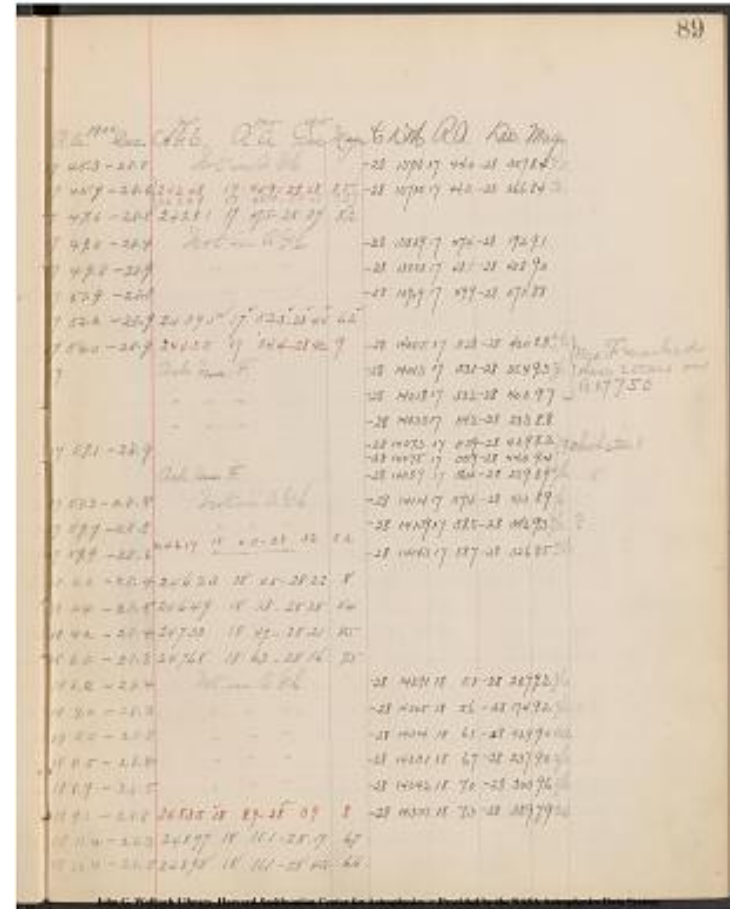
V | H | Cl | No. Rem. | K line | Int. ~~189~~

18.9	8.0	a	N	1	
18.6	8.1	H	N	1	
9.0	8.9	H	N	1	
8.4	9.5	a	N	1	
9.2	9.8	a	N	1	
9.0	10.6	a	N	2	
9.0	11.0	B	706	N	3
9.0	11.9	a	N	1	
8	9	8	12.0	a	N 1
8	9	8	12.1	a	N 1
8	9	5	12.5	F 707	K=H 1
9.0	13.3	a	N	2	
8	9	5	13.5	a	N 1
9.0	13.9	C	K=H	1	
9.0	14.5	a	N	1	
8.7	14.5	H	N	1	
8.3	14.6	a	N	3	
8.4	15.1	g	K=1.2H	4	
8.4	16.4	a	N	1	
8.1	17.1	F	718	K=H	2
8.4	17.3	a	N	1	
8.3	17.5	a	K=H	1	
9.0	17.7	a	K=H	1	
8.4	18.0	C	K=H	1	
8.8	18.1	a	N	1	
8.9	18.2	a	K=0.3H	2	
8.3	19.2	F	719	K=H	3
9.0	19.2	a	K=0.5H	3	



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17 45.3|-28.8|Not in A.G.C| | | -28 13718|17 44.0|-28 35.7|8.4 ZC|
17 45.9|-28.6|24249^|[24248]| | 17 45.9^|[17 45.9]]|-28 28^|[-28 28]|
9.5^|[8.5]]|-28 13735|17 44.3|-28 26.6|8.4 GC|
17 47.6|-28.8|24281|17 47.5|-28 39|8.2| | | | |
17 49.0|-28.4|Not in A.G.C| | | -28 13829|17 47.4|-28 19.2|9.1|
17 49.8|-28.9|Not in A.G.C| | | -28 13855|17 48.1|-28 42.8|9.0|
17 51.9|-28.8| Not in A.G.C| | | -28 13909|17 49.9|-28 37.3|8.8|
17 52.2|-28.9|24395|17 52.3|-28 45|6.2| | | | |
17 54.0|-28.9|24455|17 54.4|-28 42|9|-28 14005|17 52.8|-28 42.0|8.8
G.C.}|
[17] [Ask Mrs. F.] | | | -28 14013|17 53.1|-28 35.4|9.3 ZC^[[symbol]]|
bracket grouping with row above and below[[symbol]]|[[Mrs. F marked
these 3 stars on B 27750]]|
| | Ask Mrs. F. | | | -28 14018|17 53.2|-28 40.0|9.7|
| | Ask Mrs. F. | | | -28 14035|17 54.2|-28 23.3|8.8|
17 57.1|-28.9| | | | -28 14073^|[-28 14073]|17 55.9^|[17 55.9]]|-28
44.0^|[-28 43.9]|9.4^|[8.2]| | | ^|[?which star?]|
| | Ask Mrs. F. | | | -28 14089|17 56.4|-28 25.9|8.9 ZC|
17 58.3|-28.8|Not in A.G.C| | | -28 14114|17 57.4|-28 41.3|8.9 ZC|
17 59.7|-28.8|Not in A.G.C| | | -28 14139|17 58.5|-28 34.2|9.3 ZC?|
17 59.9|-28.6|[[~~not~~]]not in A.G.C|[[~~not~~]] 24617 |18
0.3|-2.8 3.2|8.2|-28 14143|17 58.7|-28 32.6|8.5 GC |
18 0.0|-2.8|4|24623|18 0.5|-28 22|8| | | | |
18 1.4|-28.5|24649|18 1.8|-28 28|5.4| | | | |
18 4.2|-28.4|24730|18 4.7|-28 21|8.5| | | | |
18 6.0|-28.3|24768|18 6.3|-28 16|7.5| | | | |
18 6.2|-28.4| Not in A.G.C| | | -28 14291|18 5.1|-28 20.7|9.2 ZC|
18 7.0|-28.3| Not in A.G.C| | | -28 14305|18 5.6|-28 17.4|9.2 ZC|
18 8.0|-28.8| Not in A.G.C| | | -28 14314|18 6.1|-28 42.9|9.0 oa|
18 8.5|-28.4| Not in A.G.C| | | -28 14331|18 6.7|-28 23.7|9.0 ZC|
18 8.7|-28.5| Not in A.G.C| | | -28 14342|18 7.0|-28 30.0|9.6 ZC|
18 9.1|-28.8|[[~~Not~~]]Not in A.G.C|[[~~Not~~]] 24835|18
8.9|-28 39|8|-28 14355|18 7.3|-28 38.9|7.9 GC|
18 11.4|-28.3|24897|18 11.1|-28 19|6.7| | | | |
18 11.4|-28.8|24898|18 11.1|-28 42|6.6| | | | |



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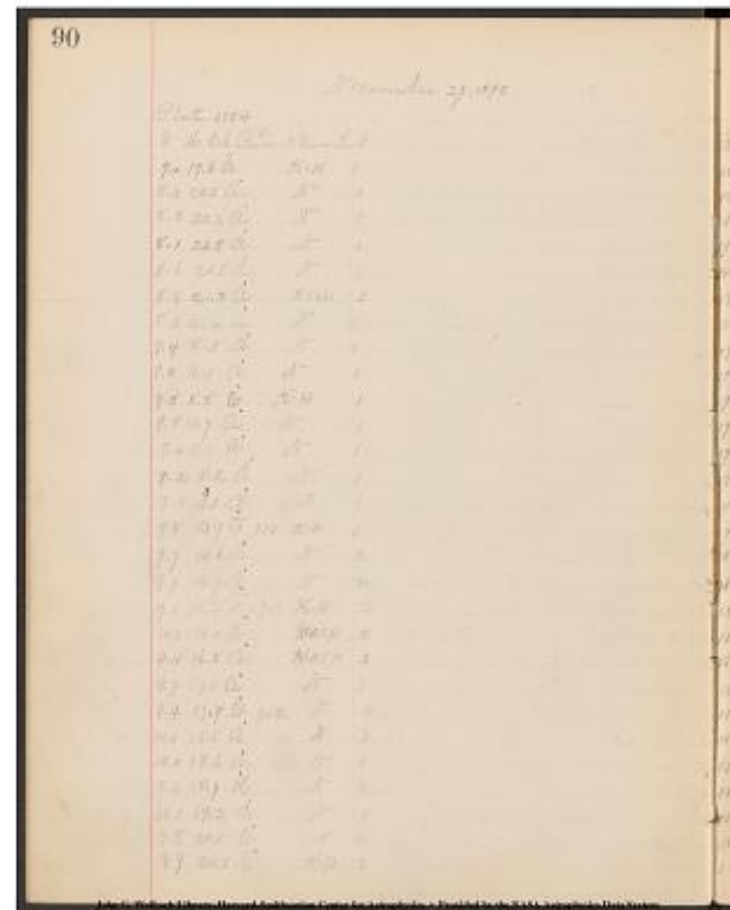
November 27, 1892

Plate 5184

[[6 Column Table]]

V | H | Cl | No Rem | K line | Int |

9.0	19.0	A		K=H	1
8.3	20.0	A		N	1
8.8	20.2	A		N	1
8.1	20.8	A		N	1
8.6	20.8	A		N	1
8.6	21.3	A		K=0.2H	3
8.3	21.4	A		N	1
9.4	8.5	A		N	1
9.8	8.8	E		K=H	1
9.8	10.7	A		N	1
9.4	11.1	A		N	1
9.2	11.2	A		N	1
9.5	18.0				
9.8	13.9	F	710	K=H	1
9.7	14.6	A		N	2
9.7	14.7	A		N	2
9.1	15.4	F	711	K=H	2
10.0	16.0	A		K=0.5H	2
9.4	16.8	A		K=0.1H	3
9.7	17.1	A		N	1
9.4	17.9	B	712	N	2
10.0	18.5	A		N	1
10.0	18.6	A		N	1
9.6	18.7	H		N	1
10.0	19.2	A		N	1
9.8	20.0	A		N	2
9.9	20.5	G		K=H	2



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• Provided by the NASA Astrophysics Data System

1916		1917	
26. 10.0 - 21.8	200 - 6 56	28. 10.0 - 21.8	200 - 6 56
27. 10.0 - 20.3		29. 10.0 - 21.8	200 - 6 56
28. 10.0 - 20.3	200 - 6 56	30. 10.0 - 21.8	200 - 6 56
29. 10.0 - 20.3	200 - 6 56	31. 10.0 - 21.8	200 - 6 56
30. 10.0 - 20.3	200 - 6 56	1. 10.0 - 21.8	200 - 6 56
31. 10.0 - 20.3	200 - 6 56	2. 10.0 - 21.8	200 - 6 56
1. 10.0 - 21.8	200 - 6 56	3. 10.0 - 21.8	200 - 6 56
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6. 10.0 - 21.8	200 - 6 56	8. 10.0 - 21.8	200 - 6 56
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8. 10.0 - 21.8	200 - 6 56	10. 10.0 - 21.8	200 - 6 56
9. 10.0 - 21.8	200 - 6 56	11. 10.0 - 21.8	200 - 6 56
10. 10.0 - 21.8	200 - 6 56	12. 10.0 - 21.8	200 - 6 56
11. 10.0 - 21.8	200 - 6 56	13. 10.0 - 21.8	200 - 6 56
12. 10.0 - 21.8	200 - 6 56	14. 10.0 - 21.8	200 - 6 56
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16. 10.0 - 21.8	200 - 6 56	18. 10.0 - 21.8	200 - 6 56
17. 10.0 - 21.8	200 - 6 56	19. 10.0 - 21.8	200 - 6 56
18. 10.0 - 21.8	200 - 6 56	20. 10.0 - 21.8	200 - 6 56
19. 10.0 - 21.8	200 - 6 56	21. 10.0 - 21.8	200 - 6 56
20. 10.0 - 21.8	200 - 6 56	22. 10.0 - 21.8	200 - 6 56
21. 10.0 - 21.8	200 - 6 56	23. 10.0 - 21.8	200 - 6 56
22. 10.0 - 21.8	200 - 6 56	24. 10.0 - 21.8	200 - 6 56
23. 10.0 - 21.8	200 - 6 56	25. 10.0 - 21.8	200 - 6 56
24. 10.0 - 21.8	200 - 6 56	26. 10.0 - 21.8	200 - 6 56
25. 10.0 - 21.8	200 - 6 56	27. 10.0 - 21.8	200 - 6 56
26. 10.0 - 21.8	200 - 6 56	28. 10.0 - 21.8	200 - 6 56
27. 10.0 - 21.8	200 - 6 56	29. 10.0 - 21.8	200 - 6 56
28. 10.0 - 21.8	200 - 6 56	30. 10.0 - 21.8	200 - 6 56
29. 10.0 - 21.8	200 - 6 56	31. 10.0 - 21.8	200 - 6 56
30. 10.0 - 21.8	200 - 6 56		
31. 10.0 - 21.8	200 - 6 56		

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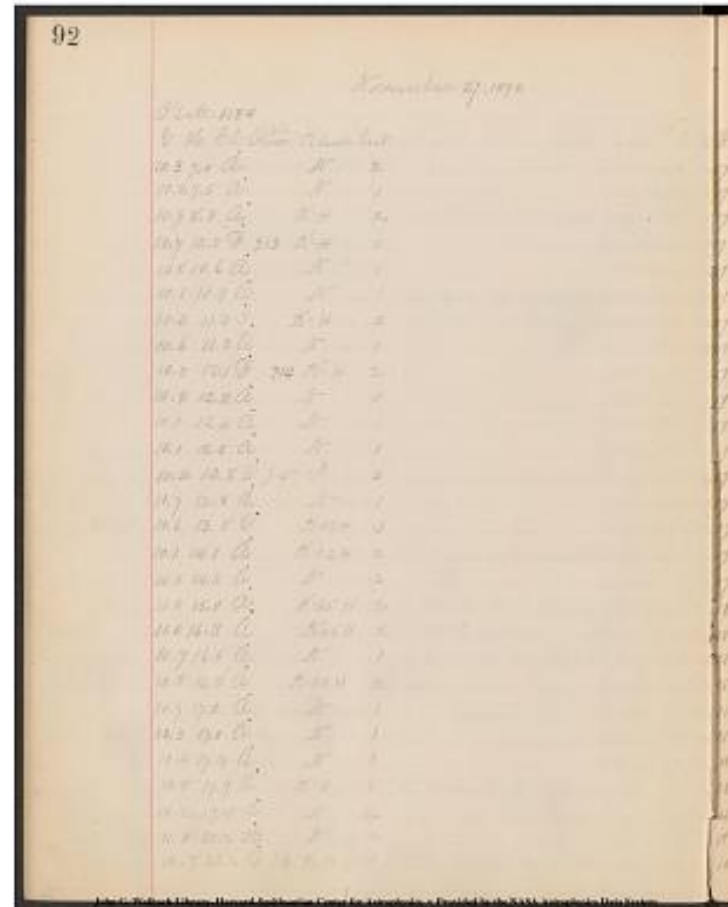
November 27, 1892

Plate 5184

[[table]]

V | H | CI | No Rem | K line | Int |

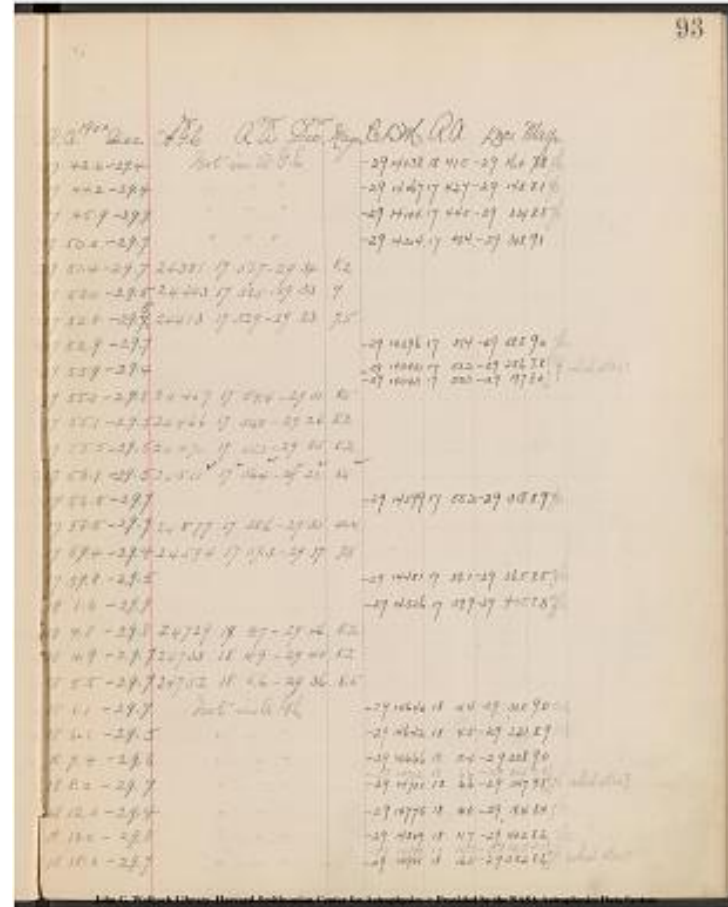
10.3	7.0	A ⁺ [.]		N 2
10.2	7.5	A ⁺ [.]		N 1
10.4	8.3	A ⁺ [.]		K=H 2
10.7	10.0	F ⁺ [.]	713	K=H 2
10.8	10.6	A ⁺ [.]		N 1
10.1	10.9	A ⁺ [.]		N 1
10.3	11.3	A ⁺ [.]		K=H 2
10.6	11.3	A ⁺ [.]		N 1
10.3	12.1	F ⁺ [.]	714	K=H 2
10.8	12.2	A ⁺ [.]		N 3
10.1	12.4	A ⁺ [.]		N 1
10.1	12.5	A ⁺ [.]		N 1
10.2	12.8	B ⁺ [.]	715	N 2
10.7	13.0	A ⁺ [.]		N 1
10.6	13.8	G ⁺ [.]		K=1.2H 3
10.1	14.1	A ⁺ [.]		K=0.2H 2
10.5	14.2	A ⁺ [.]		N 2
11.0	15.0	A ⁺ [.]		K=0.5H 2
11.0	16.3	A ⁺ [.]		K=0.5H 2
10.9	16.5	A ⁺ [.]		N 1
10.8	16.8	A ⁺ [.]		K=0.2H 2
10.7	17.0	A ⁺ [.]		N 1
10.3	17.0	A ⁺ [.]		N 1
10.4	17.4	A ⁺ [.]		N 1
10.8	17.9	A ⁺ [.]		K=H 1
10.2	19.4	A ⁺ [.]		N 2
11.0	20.2	H ⁺ [.]		N 2
10.9	22.2	F ⁺ [.]	716	K=H 1



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]
 R.A 1900|Dec.|No. A.G.C.|R.A 1900|Dec 1900|Magn|CDM|R.A.|
 Dec.|Magn|

17 42.6	-29.4	Not in A.G.C.			-29 14038	18 41.5	-29 16.0	7.8 zC
17 44.2	-29.4	Not in A.G.C.			-29 14067	17 42.7	-29 14.5	8.1 zC
17 45.9	-29.4	Not in A.G.C.			-29 14104	17 44.5	-29 31.4	8.5 zC
17 50.0	-29.7	Not in A.G.C.			-29 14214	17 48.4	-29 30.8	9.1
17 51.4	-29.7	24381	17 51.7	-29 34	8.2			
17 52.0	-29.5	24403	17 52.5	-29 33	9			
17 52.8	-29.	[[strikethrough]]	7	[[strikethrough]]	5	24413	17 52.9	-29
23	7.5							
17 52.9	-29.7				-29 14296	17 51.4	-29 28.5	9.0 ZC
17 55.9	-29.4				-29 14343	[[[-29 14342]]]	17 53.3	[[17 53.3]]-29
19.7	[[[-29 25.6]]]	8.0	[[7.8 GC]]	[[[] which star?]]				
17 55.0	-29.8	24457	17 54.4	-29 51	8.5			
17 55.1	-29.5	24466	17 54.8	-29 26	8.2			
17 55.5	-29.5	24474	17 55.1	-29 35	8.2			
17 56.1	-29.5	24511	17 56.4	-29 22	8.5			
17 56.5	-29.7				-29 14399	17 55.2	-29 31.8	8.9 ZC
17 58.5	-29.7	24577	17 58.6	-29 35	var.			
17 59.4	-29.4	24594	17 59.3	-29 17	7.8			
17 59.8	-29.5				-29 14481	17 58.1	-29 26.5	8.5 ZC
18 1.6	-29.9				-29 14526	17 59.9	-29 44.5	8.5 ZC
18 4.8	-29.8	24729	18 4.7	-29 46	8.2			
18 4.9	-29.7	24733	18 4.9	-29 40	8.2			
18 5.5	-29.7	24752	18 5.6	-29 36	8.5			
18 6.1	-29.7	Not in A.G.C.			-29 14640	18 4.4	-29 30.0	9.0 oa
18 6.1	-29.5	Not in A.G.C.			-29 14642	18 4.5	-29 22.1	8.9 oa
18 7.4	-29.6	Not in A.G.C.			-29 14666	18 5.4	-29 22.8	9.0
18 8.0	-29.7	Not in A.G.C.			-29 14701	[[[-29 14102]]]	18 6.6	[[18
6.6]]	-29 34.7	[[[-29 34.0]]]	9.5	[[9.4]]	ZC	[[[] which star?]]		
18 12.0	-29.4	Not in A.G.C.			-29 14775	18 10.0	-29 18.4	8.4 zC
18 13.0	-29.8	Not in A.G.C.			-29 14809	18 11.7	-29 40.2	8.2 zC
18 18.0	-29.7	Not in A.G.C.			-29 14901	[[[-29 14900]]]	18 16.5	[[18
16.5]]	-29 35.2	[[[-29 36.5]]]	8.6	[[9.0]]	ZC	[[[] which star?]]		



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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Plate 5184

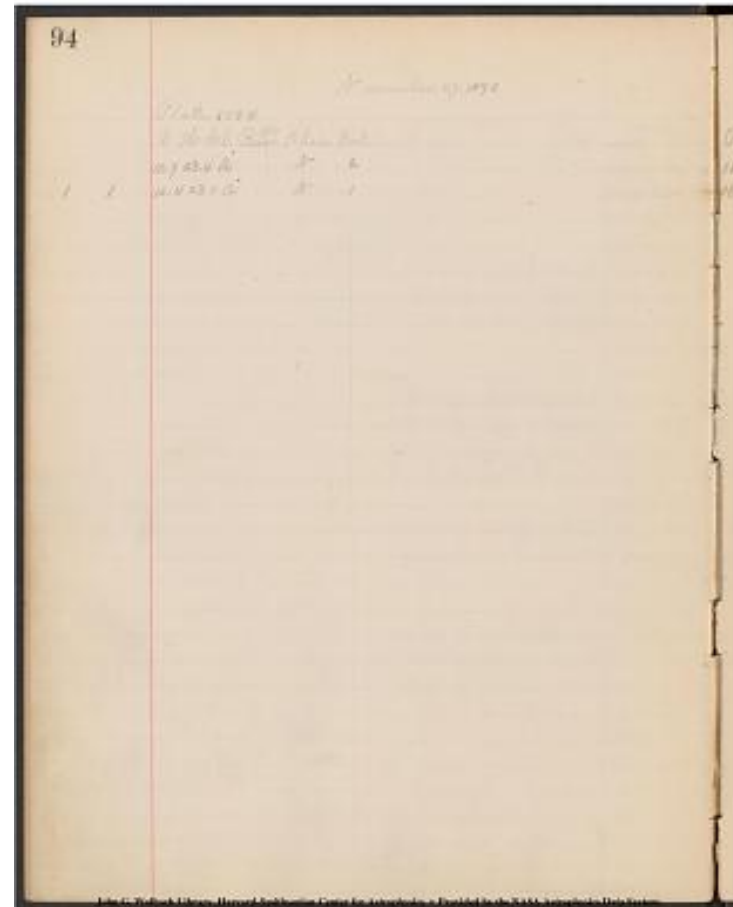
[[table]]

V. | H. | Cl. | No. Rem. | Kline | Int.

10.9	23.4	A		N	2
10.4	23.0	A		N	1

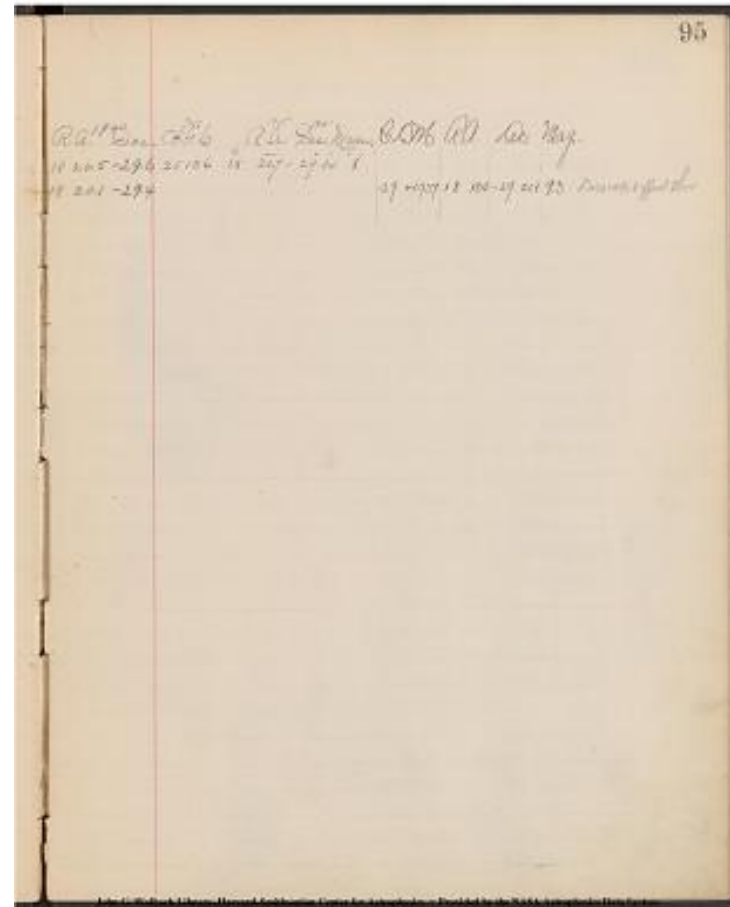
10.9	23.4	A		N	2
10.4	23.0	A		N	1

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]
 R.A. 1900|Dec.|A.G.C. no.|R.A 1900|Dec. 1900|Magn..| |C.D.M.|R.A.
 Dec.|Mag.|\n-----\n18 20.5|-29.6|25136|18^|[h]| 20.7^|[m]|-29 3'4| 8| | | |\n18 20.1|-29.4| | | | -29 14937|18 18.4|-29. 21.1|9.3 Does 14938\naffect this|



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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23^h 29^m

[6 Column Table]

V | H | Cl | Rem No. | K line | Int |

10.5	24.3	F	7.17	K=H	2
11.4	9.2	A	N	1	
11.3	9.5	F	7.18	K=H	1
11.5	9.7	A	N	2	
11.3	10.0	A	N	2	
11.9	10.1	H	N	2	
11.4	10.2	A	N	2	
11.8	11.6	A	N	1	
11.3	11.7	2	1.7	A/719	N 1
11.2	11.8	A	N	2	
11.4	12.0	A	N	1	
11.8	12.2	A	N	1	
11.3	13.2	A	K=H	2	
12.0	13.8	A	K=H	2	
12.0	14.8	A	N	1	
11.9	15.3	A	K=H	2	
11.5	15.4	G	K=H	2	
11.4	16.1	A	N	1	
11.4	16.4	A	K=0.2H	2	
11.4	16.6	A	N	1	
11.7	16.9	G	K=H	1	
11.2	18.1	L	K=H	2	
11.2	18.8	A	N	1	
11.4	18.9	A	N	2	
11.2	19.4	A	N	2	
11.1	19.9	A	N	1	
11.9	18.6	F	7.20	K=H	1
11.3	20.7	L	K=1.2H	4	

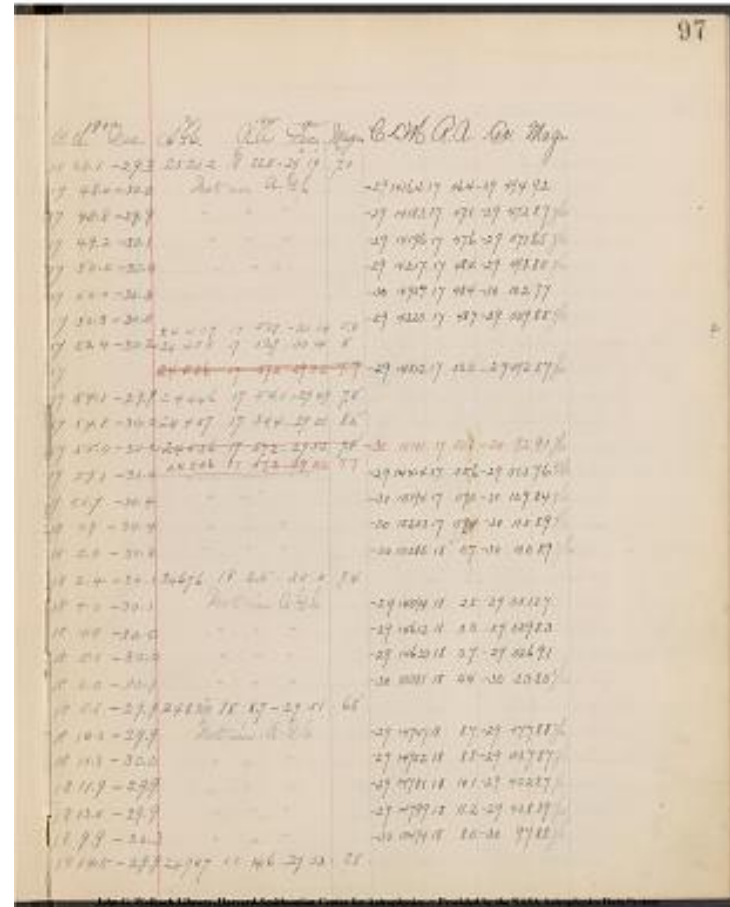
John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics
 • Provided by the NASA Astrophysics Data System

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
 Plates, Southern Draper Catalogue #61
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[[table]]

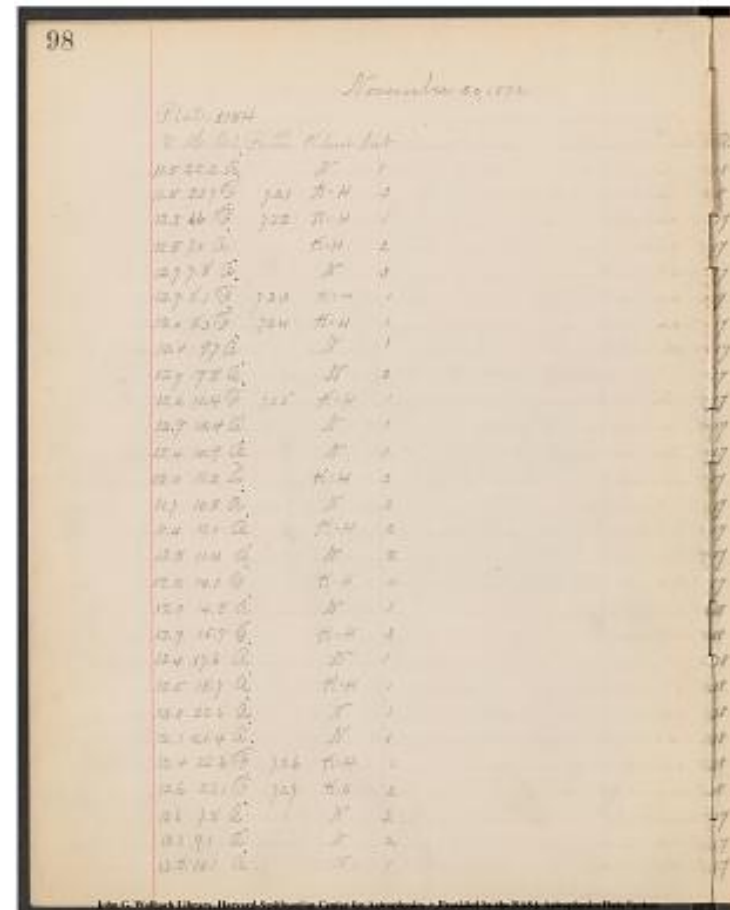
R.A. 1900 | Dec. 1900 | No A.G.C. | R.A. 1900 | Dec. 1900
| Magn | C.D.M. | R.A. | Dec. | Magn.

18 23.1	-29.3	25202	18 ^h	22.8	-29 ^m	19 ^s	7.0			
17 48.0	-30.0	Not in A.G.C.			-29 14164	17 46.4	-29 49.4	9.2		
17 48.8	-29.9	Not in A.G.C.			-29 14183	17 47.1	-29 47.2	8.7zC		
17 49.2	-30.1	Not in A.G.C.			-29 14196	17 47.6	-29 57.1	8.5zC		
17 50.0	-30.0	Not in A.G.C.			-29 14217	17 48.4	-29 49.8	8.5zC		
17 50.0	-30.0				-30 14959	17 48.4	-30 10.2	7.7		
17 50.3	-30.0				-29 14223	17 48.7	-29 53.9	8.5zC		
		24407	17 52.7	-30 14	5.8					
17 53.4	-30.2	24408	17 52.7	-30 14	8					
17	24536	17 57.2	-29 52	7.7	7.7				-29	
14312	17 52.2	-29 49.2	8.7zC							
17 54.1	-29.9	24446	17 54.1	-29 49	7.8					
17 54.8	-30.0	24457	17 54.4	-29 51	8.5					
17 55.0	-30.2	24536	57.2							
2952	7.8	24536	17 57.2	-2952	7.7	-30 15101	17 53.3			
30 9.2	9.1zC									
17 57.1	-30.0	<u>24536</u>	57.2	<u>7.7</u>	<u>7.7</u>	-30 15101	17 53.3			
52	<u>7.7</u>	-29 14414	17 55.6	-29 51.3	7.6zC					
17 58.7	-30.4	24536	57.2	-29 52	-30 15194	17 57.0	-30 13.9	8.4zC		
18 0.9	-30.4	24536	57.2	-29 52	-30 15253	17 59.4	-30 11.0	8.9zC		
18 2.3	-30.3	24536	57.2	-29 52	-30 15285	18 0.7	-30 10.0	8.9zC		
18 2.4	-30.1	24676	18 2.5	-30 0	7.4					
18 4.0	-30.1	Not in A.G.C.			-29 14594	18 2.5	-29 55.1	8.7		
18 4.8	-30.0	Not in A.G.C.			-29 14612	18 3.3	-29 55.9	8.3		
18 5.1	-30.0	Not in A.G.C.			-29 14623	18 3.7	-29 52.6	9.1		
18 6.0	-30.1	Not in A.G.C.			-30 15381	18 4.4	-30 2.3	8.0zC		
18 8.6	-29.9	24829	18 8.7	-29 51	6.8					
18 10.3	-29.9	Not in A.G.C.			-29 14747	18 8.7	-29 47.7	8.8zC		
18 10.3	-30.0	Not in A.G.C.			-29 14752	18 8.8	-29 53.7	8.7zC		
18 11.9	-29.9	Not in A.G.C.			-29 14781	18 10.1	-29 45.2	8.7zC		
18 13.0	-29.9	Not in A.G.C.			-29 14799	18 11.2	-29 43.8	8.9zC		
18 9.9	-30.3	Not in A.G.C.			-30 15474	18 8.3	-30 9.7	8.8zC		
18 14.5	-29.9	24987	18 14.6	-29 53	2.8					



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 Plate 5184
 [[table]]
V	H	Cl	No Rem	K line	Int
 11.5|22.2|A| |N|1|
 11.5|23.7|F|721|K=H|3|
 12.3|6.6|F|722|K=H|1|
 12.8|7.0|A| |K=H|2|
 12.7|7.8|A| |N|3|
 12.9|8.1|F|723|K=H|1|
 12.0|8.3|F|724|K=H|1|
 13.0|9.7|A| |N|1|
 12.7|9.8|A| |N|3|
 12.2|10.4|F|725|K=H|1|
 12.9|10.4|A| |N|1|
 12.4|10.9|A| |N|1|
 12.0|11.2|L| |K=H|3|
 11.7|10.8|A| |N|3|
 11.4|11.1|A| |K=H|2|
 12.8|11.4|A| |N|2|
 12.2|14.1|G| |K=H|4|
 12.9|14.8|A| |N|1|
 12.9|15.9|G| |K=H|3|
 12.4|17.6|A| |N|1|
 12.5|18.7|A| |K=H|1|
 13.0|22.6|A| |N|1|
 12.1|21.4|A| |N|1|
 12.4|22.6|F|726|K=H|1|
 12.6|23.1|F|727|K=H|2|
 13.6|7.8|A| |N|2|
 13.3|9.1|A| |N|2|
 13.8|10.1|A| |N|1|



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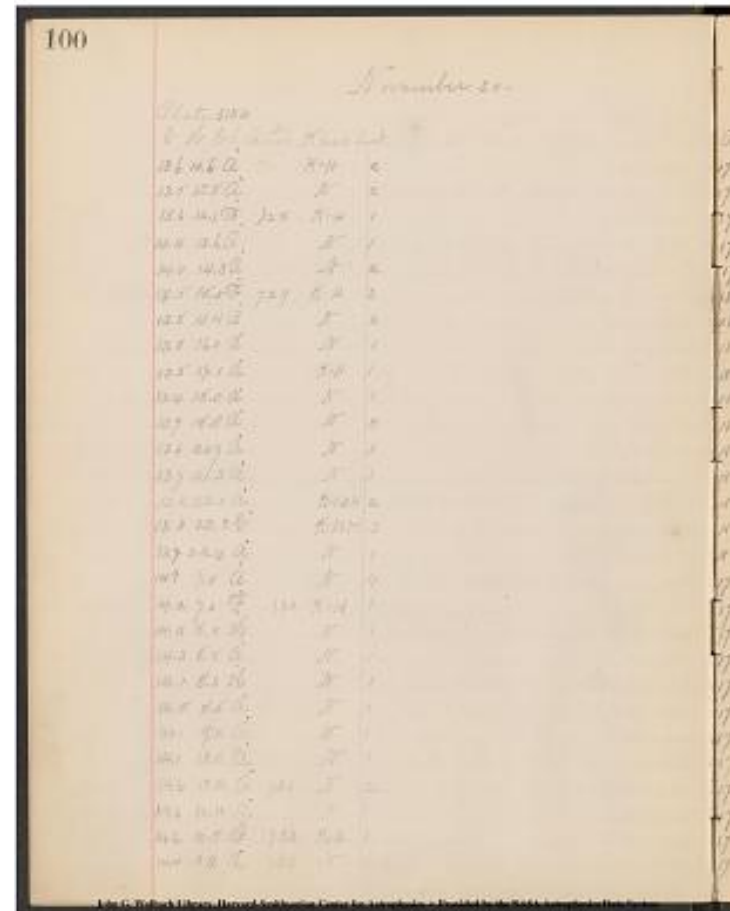
November 30

Plate 5184

[[table]]

V | H | CL. | No. Rem. | K line | Int. |

13.6	10.6	A		K=H 2	
13.5	12.8	A		N 2	
13.6	12.1	F	728	K=H 1	
13.4	13.6	A		N 1	
14.0	14.3	A		N 2	
13.5	15.0	F	729	K=H 2	
13.8	15.4	A		N 2	
13.8	16.0	A		N 1	
13.5	17.1	A		K=H 1	
13.4	18.0	A		N 1	
13.9	18.5	A		N 3	
13.6	20.7	A		N 3	
13.7	21.3	A		N 1	
13.2	22.0	A		K=0.3H 2	
13.3	22.3	G		K=1.2H 3	
13.7	22.4	A		N 1	
14.9	7.0	A		N 4	
14.2	7.0	F	730	K=H 1	
14.4	8.0	H		N 1	
14.3	8.2	A		N 1	
14.1	8.3	H		N 1	
14.8	8.5	A		N 1	
14.1	9.2	A		N 1	
14.1	10.0	A		N 1	
14.6	10.2	A	731	N 2	
14.6	10.4	A		N 1	
14.6	10.5	F	732	K=H 1	
14.4	11.3	A	733	N 1	



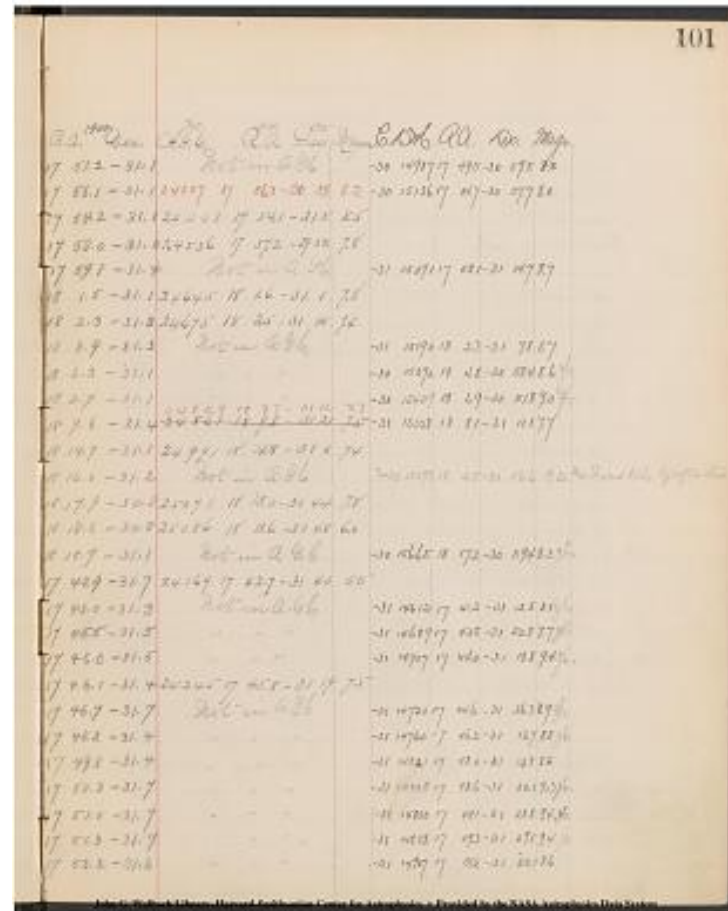
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]

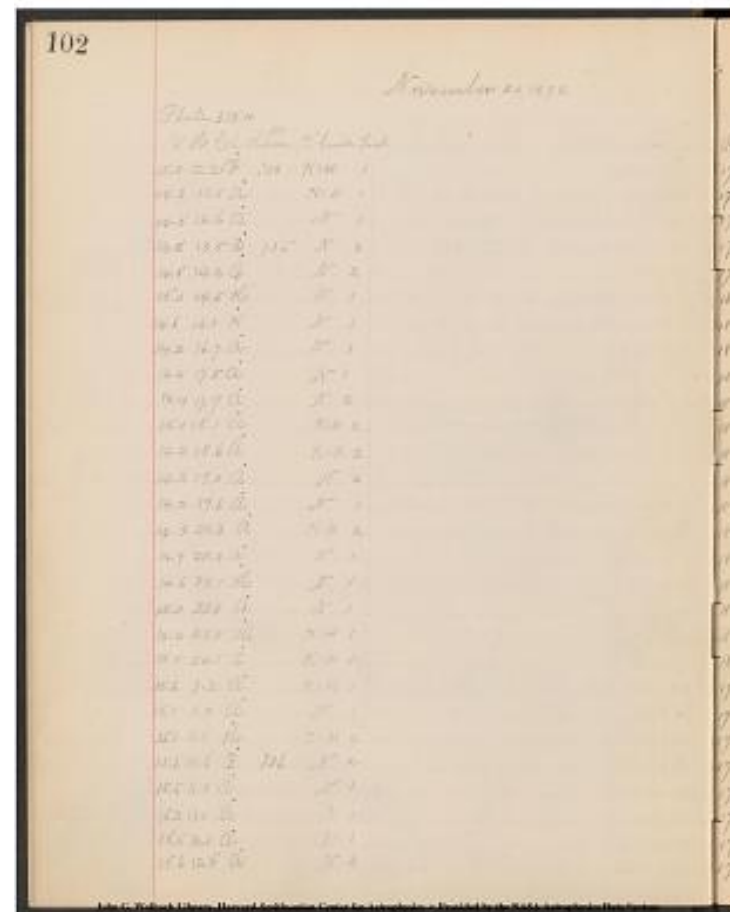
R.A. 1900| Dec.| A.G.B No.|R.A 1900|Dec
1900|Magn|C.D.M|R.A|Dec.|Magn.]

17 51.2	-31.1	Not in A.G.C.				-30 14987	17 49.5	-30 59.5	8.0
17 56.1	-31.1	24507	17 56.3	-30 58	8.2	-30 15136	17 54.7	-30 57.7	8.0
17 54.2	-31.1	24448	17 54.1	-31 5	8.5				
17 58.0	-31.0	24536	17 57.2	-29 52	7.8				
17 59.8	-31.4	Not in A.G.C.				-31 15091	17 58.1	-31 14.7	8.7
18 1.5	-31.1	24645	18 1.6	-31 1	7.8				
18 2.3	-31.3	24675	18 2.5	-31 10	7.4				
18 3.9	-31.3	Not in A.G.C.				-31 15190	18 2.3	-31 7.8	8.9
18 6.3	-31.1	Not in A.G.C.				-30 15390	18 4.8	-30 58.4	8.6
18 8.7	-31.1	Not in A.G.C.				-31 15328	18 8.1	-31 11.1	7.7
18 9.6	-31.4	24861	18	15328		24859	18		
9.8	31.21	24861	9.7	31.12		24859	9.7	31.12	
7.5	31.1	15328	18 8.1	-31 11.1	7.7				
18 14.7	-31.1	24991	18 14.8	-31 0	7.4				
18 16.0	-31.2	Not in A.G.C.				?-30 15598	18 14.5	-30 566	9.2
[[right margin]] Mrs F said take left of two stars [[right margin]]									
18 17.9	-30.8	25071	18 18.0	-30 44	7.8				
18 18.6	-30.8	25086	18 18.6	-30 48	6.0				
18 18.7	-31.1	Not in A.G.C.				-30 15665	18 7.2	-30 59.4	8.3
17 42.9	-31.7	24169	17 42.7	-31 40	55				
17 43.0	-31.3	Not in A.G.C.	-31 14612	17 41.2	-31 22.8	7.7			
17 45.5	-31.5	Not in A.G.C.				-31 14689	17 435	-31 18.8	9.4
17 46.0	-31.5	Not in A.G.C.				-31 14707	17 44.0	-31 18.8	9.4
17 46.1	-31.4	24245	17 45.8	-31 19	7.5				
17 46.7	-31.7	Not in A.G.C.				-31 14720	17 44.6	-31 36.3	8.9
17 48.2	-31.4	Not in A.G.C.				-31 14760	17 46.2	-31 13.7	8.5
17 49.8	-31.4	Not in A.G.C.				-31 14821	17 48.0	-31 13.8	8.5
17 50.3	-31.7	Not in A.G.C.				-31 14835	17 48.6	-31 30.1	9.3
17 51.0	-31.7	Not in A.G.C.				-31 14850	17 49.1	-31 28.8	9.4
17 51.3	-31.7	Not in A.G.C.				-31 14858	17 49.3	-31 29.1	9.4
17 53.2	-31.6	Not in A.G.C.				-31 14907	17 51.2	-31 25.1	8.6



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 [[table]]
[V	H	Cl	No Rem	K line	Int
 15.0|12.2|F|734|K=H|1|
 14.3|12.5|A| |K=H|1|
 14.5|12.6|A| |N|1|
 14.8|13.5|A|735|N|2|
 14.5|14.2|A| |N|2|
 15.0|14.5|H| |N|1|
 14.6|16.0|H| |N|1|
 14.2|16.7|A| |N|1|
 14.4|17.5|A| |N|1|
 14.4|17.9|A| |N|2|
 15.0|18.1|A| |K=H|2|
 14.2|18.6|A| |K=H|2|
 14.2|19.0|A| |N|2|
 14.2|19.6|A| |N|1|
 14.3|20.3|A| |K=H|2|
 14.9|20.3|A| |N|1|
 14.6|23.1|H| |N|1|
 15.0|23.4|A| |N|1|
 14.2|23.8|H| |K=H|1|
 15.0|24.1|E| |K=H|1|
 15.6|7.2|A| |K=H|1|
 15.1|7.3|A| |N|1|
 15.6|8.8|H| |K=H|2|
 15.6|10.6|B|736|N|2|
 15.5|11.0|A| |N|1|
 15.2|11.1|A| |N|1|
 15.5|12.1|A| |N|1|
 15.6|12.5|A| |N|2|

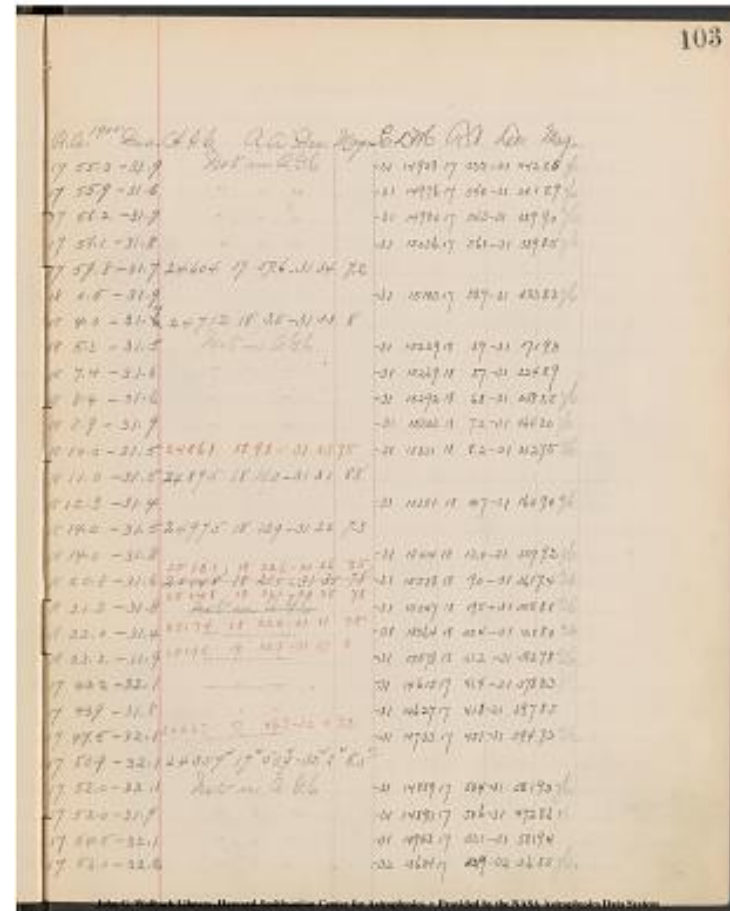


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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 Transcribed and Reviewed by Digital Volunteers
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[[table]]

R.A. 1900| Dec.| A.G.B No.|R.A 1900|Dec
1900|Magn|C.D.M|R.A|Dec|Magn.|

17 55.3	-31.9	NOT IN A.G.C.				-31 14958	17 53.3	-31 44.2	8.5ZC	
17 55.9	-31.6	NOT IN A.G.C.				-31 14976	17 54.0	-31 24.1	8.9ZC	
17 56.2	-31.7	NOT IN A.G.C.				-31 14980	17 54.3	-31 28.9	9.0ZC	
17 58.1	-31.8	NOT IN A.G.C.				-31 15036	17 56.1	-31 38.9	8.5ZC	
17 59.8	-31.7	24604	17 59.6	-31 34	7.2					
18 0.5	-31.9				-31 15103	17 58.7	-31 45.3	8.3ZC		
18 4.0	-31.	6	6	7	24712	18 3.8	-31 33	8		
18 5.3	-31.5	NOT IN A.G.C.			-31 15229	18 3.9	-31 17.1	19.3		
18 7.4	-31.6	NOT IN A.G.C.			-31 15269	18 5.7	-31 22.4	8.9		
18 8.4	-31.6	NOT IN A.G.C.			-31 15292	18 6.8	-31 24.8	8.5ZC		
18 8.9	-31.9	NOT IN A.G.C.			-31 15302	18 7.2	-31 46.4	8.0ZC		
18 10.0	-31.5	24861	18 9.8	-31 21	7.5	-31 15331	18 8.2	-31 21.7	5GC	
18 11.0	-31.5	24895	18 11.0	-31 31	8.8					
18 12.3	-31.4				-31 15381	18 10.7	-31 16.0	9.0ZC		
18 14.0	-31.5	24975	18 13.9	-31 22	7.3					
18 14.0	-31.8				-31 15414	18 12.4	-31 35.9	9.2ZC		
18 20.8	-31.6	25148	18 21.1	-31 3.5	7.8					
25131	18 20.6	-31 26	7.5	-31 15538	18 19.0	-31 26.1	7.4GC			
18 21.2	-31.8	Not in A.G.C	25148	18 21.1	-31 35	7.8	-31 15547	18 19.5	-31 35.8	8.1GC
18 22.0	-31.4	Not in A.G.C	25174	18 22.0	-31 11	7.5	-31 15564	18 20.4	-31 12.1	8.0GC
18 23.2	-31.9	Not in A.G.C	25198	18 22.8	-31 37	8	-31 15578	18 21.2	-31 38.2	7.8GC
17 43.2	-32.1	Not in A.G.C	14615	17 41.4	-31 57.8	8.3ZC				
17 43.9	-31.8				-31 14627	17 41.8	-31 39.7	7.8.5		
17 47.5	-32.1	Not in A.G.C	24267	17 46.7	-32 0	7.3	-31 14733	17 45.1	-31 59.4	7.3GC
17 50.9	-32.1	24359	17 50.9	-32 2	8.5					
17 52.0	-32.1	Not in A.G.C			-31 14889	17 50.4	-31 58.1	9.0ZC		
17 52.0	-31.9	Not in A.G.C			-31 14893	17 50.6	-31 47.2	8.6ZC		
17 54.5	-32.1	Not in A.G.C			-31 14953	17 53.1	-31 58.1	9.4		
17 56.0	-32.2	Not in A.G.C			-32 13634	17 53.9	-32 3.6	8.5ZC		



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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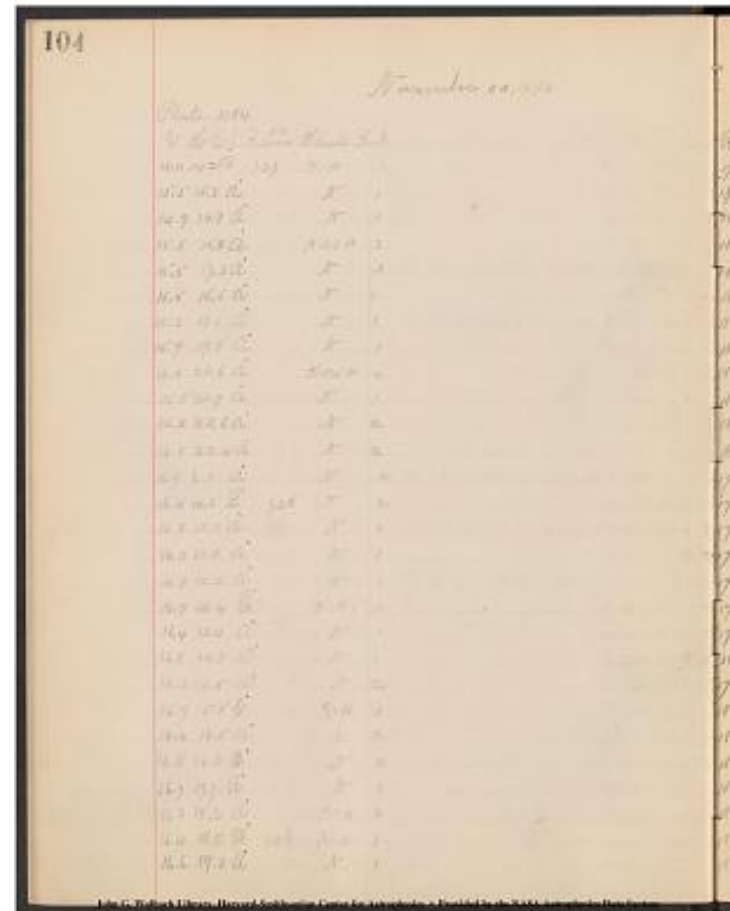
November 27, 1892

Plate 5184

[[table]]

V | H | Cl. | No. Rem. | K line | Int. |

15.4	14.2	F	737	K=H	1	
15.5	15.3	a	N	1		
14.9	14.9	a	N	1		
15.8	15.8	a	K=0.2H	3		
15.5	17.3	a	N	3		
15.5	18.5	a	N	1		
15.3	19.1	a	N	1		
15.9	19.8	a	N	1		
16.0	20.6	a	K=0.5H	2		
15.8	20.9	a	N	1		
15.3	22.6	a	N	2		
15.8	20.9	a	N	1		
15.3	22.6	a	N	2		
16.0	23.4	a	N	2		
16.9	6.7	a	N	2		
16.4	10.1	L	738	N	2	
16.8	10.3	a	N	3		
16.3	11.0	a	N	1		
16.9	12.2	a	N	1		
16.9	12.4	[[strikethrough]]	N [[/strikethrough]] O		K=H?	1
16.4	13.4	a	N	1		
16.8	14.3	a	N	1		
16.3	14.5	a	N	2		
16.9	15.8	g	K=H	3		
16.4	16.5	a	N	2		
16.8	16.6	a	N	2		
16.7	17.7	a	N	1		
16.3	18.2	a	K=H	2		
16.4	18.8	F	739	K=H	1	
16.6	19.3	a	N	1		

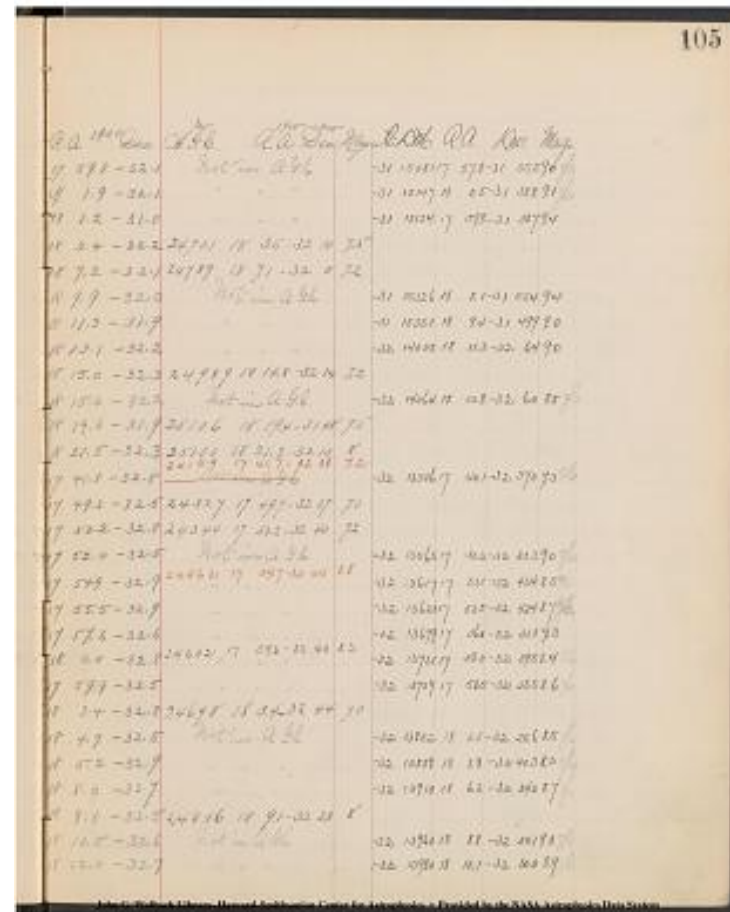


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
Extracted Nov-17-2023 02:05:05

[[table]]

R.A. 1900|Dec1900|No A.G.C.|R.A 1900|Dec
1900|Magn|CDM|R.A.|Dec.|Magn.]

17 59.8 -32.1 Not in A.G.C.]				-31 15081 17 57.8 -31 55.5 9.0ZC
18 1.9 -32.1 Not in A.G.C.]				-31 15147 18 0.5 -31 58.8 9.1ZC
18 1.2 -31.8 Not in A.G.C.]				-31 15124 17 59.8 31 38.7 9.4
18 3.4 -32.2 24701 18 3.5 -32 10 7.5				
18 7.2 -32.1 24789 18 7.1 -32 0 7.2				
18 9.9 -32.0 Not in A.G.C.]				-31 15326 18 8.1 -31 55.4 9.4
18 11.3 -31.9 Not in A.G.C.]				-31 15351 18 9.4 -31 49.9 9.0
18 13.1 -32.2 Not in A.G.C.]				-32 14005 18 11.3 -32 64 9.0
18 15.0 -32.3 24989 18 14.8 -32 14 7.2				
18 15.6 -32.2 Not in A.G.C.]				-32 14064 18 13.8 -32 6.0 8.5ZC
18 19.6 -31.9 25106 18 19.4 -31 48 7.5				
18 21.5 -32.3 25150 18 21.2 -32 10 8				
17 41.8 -32.8 [[strike through]]Not in A.G.C [[strike through]] 24139 17				
41.7 -32 38 7.2 -32 13346 17 40.1 -32 37.0 7.3GC				
17 49.3 -32.5 24327 17 49.7 -32 27 7.0				
17 50.2 -32.8 24340 17 50.2 -32 40 7.2				
17 52.0 -32.5 Not in A.G.C.]				-32 13565 17 50.2 -32 23.3 9.0ZC
17 54.9 -32.9 [[strike through]]Not in A.G.C [[strike through]]24462 17				
54.7 -32 44 8.8 -32 13617 17 53.1 -32 43.4 8.5GC				
17 55.5 -32.9 Not in A.G.C.]				-32 13623 17 53.5 -32 42.4 8.7ZC
17 57.6 -32.6 Not in A.G.C.]				-32 13679 17 56.0 -32 31.1 9.3
18 0.0 -32.8 24602 17 59.6 -32 40 8.2 -32 13731 17 58.0 -32				
39.5 8.4ZC				
17 59.9 -32.5 Not in A.G.C.]				-32 13739 17 58.5 -32 23.5 8.6ZC
18 3.4 -32.8 24698 18 3.4 -32 44 7.0				
18 4.7 -32.5 Not in A.G.C.]				-32 13852 18 3.5 -32 25.6 8.5ZC
18 5.2 -32.9 Not in A.G.C.]				-32 13858 18 3.8 -32 40.3 8.3ZC
18 8.0 -32.7 Not in A.G.C.]				-32 13910 18 6.2 -32 34.0 8.7ZC
18 9.1 -32.5 24846 18 9.1 -32 23 8				
18 10.5 -32.6 Not in A.G.C.]				-32 13960 18 8.8 -32 24.1 9.0ZC
18 12.0 -32.7 Not in A.G.C.]				-32 13980 19 10.1 -32 30.0 8.9ZC

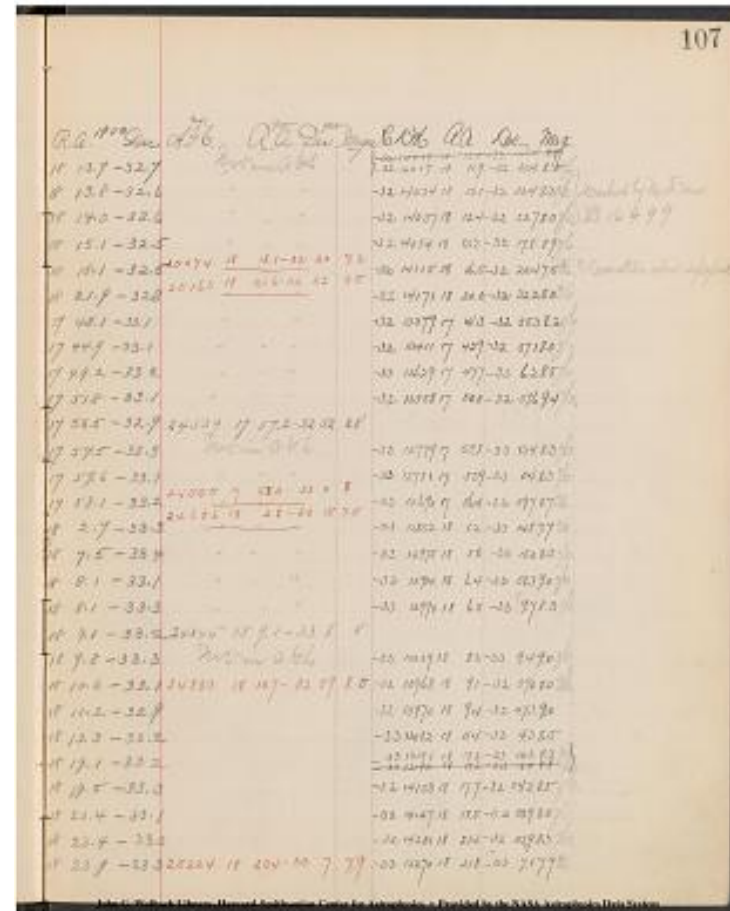


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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Transcribed and Reviewed by Digital Volunteers
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[[table]]

R.A. 1900|Dec.|No. A.G.C.|R.A. 1900|Dec. 1900|Magu|C.L.M.| R.A.
Dec.| Magn.]

18 13.7 -32.7	Not in A.G.C.	[[32 14018 18 12.0 -
32 25.4 8.5	32 14017 18 11.9 -32 23.4 8.5 ZC 	
18 13.8 -32.6	Not in A.G.C.	-32 14024 18 12.1 -32 23.4 8.3 ZC
marked by Mrs F on		
18 14.0 -32.6	Not in A.G.C.	-32 14037 18 12.4 -32 23.7 8.0 ZC
B16499.]		
18 15.1 -32.5	Not in A.G.C.	-32 14054 18 13.3 -32 17.8 8.9 ZC
18 18.1 -32.5	not in A.G.C.	25074 18
18 1.1 -32 20 7.2 -32 14115 18 16.5 -32 20.4 7.5 ZC.		?Does star above
superpose?		
18 21.9 -32.8	not in A.G.C.	25163 18
21.6 -32 32 8.5 -32 14171 18 20.0 -32 32.2 8.0 ZC		
18 43.1 -33.1	not in A.G.C.	-32 13379 17 41.3 -32 55.3 8.2 ZC
18 44.9 -33.1	not in A.G.C.	-32 14311 17 42.9 -32 57.1 8.0 ZC
18 49.2 -33.2	not in A.G.C.	-33 12629 17 47.7 -33 6.2 8.5 ZC
18 51.8 -33.1	not in A.G.C.	-32 13558 17 50.0 -32 57.6 9.4 ZC.]
17 56.5 -32.9 24539 17 57.2 -32 52 8.8		
17 57.5 -33.3	not in A.G.C.	-33 12779 17 55.8 -33 13.4 8.3 ZC
17 57.6 -33.1	not in A.G.C.	-33 12781 17 55.9 -33 0.4 8.3 ZC
17 58.1 -33.2	not in A.G.C.	24555 17
58.0 -33 0 8 -32 13690 17 56.4 -32 59.7 8.7 ZC		
18 2.7 -33.3	not in A.G.C.	24686 18 2.8
33 15 7.5 -33 12852 18 1.2 -33 14.8 7.7 ZC		
18 7.5 -33.4	not in A.G.C.	-33 12975 18 5.8 -33 15.0 8.3 Z.C.]
18 8.1 -33.1	not in A.G.C.	-32 13914 18 6.4 -32 58.3 9.0 ZC
18 8.1 -33.3	not in A.G.C.	-33 12990 18 6.5 -33 9.7 8.3 ZC.]
18 9.1 -33.2 24845 18 9.1 -33 8 8		
18 9.8 -33.3	not in A.G.C.	-33 13029 18 8.3 -33 9.4 9.0 ZC
18 10.6 -33.1 24883 18 10.7 -32 59 8.5 -32 13968 18 9.1 -32 59.0 8.0		
ZC.]		
18 11.2 -32.9		-32 13970 18 9.4 -32 47.3 9.0
18 13.3 -33.2		-33 13082 18 11.4 -33 4.3 8.5
18 19.1 -33.2		33 13193 18 17.3 -33 6.0
8.8	33 13191 18 17.2 -33 10.3 9.3 ZC 	
18 19.5 -33.0		-32 14133 18 17.7 -32 54.2 8.5 ZC.]
18 20.4 -33.1		-32 14147 18 18.5 -32 58.9 8.5 ZC
18 23.4 -33.0		-32 14201 18 21.4 -32 51.9 8.3 ZC
18 23.9 -33.3 25224 18 23.4 -33 7 7.9 -33 13270 18 21.8 -33 7.1 7.7		
ZC		



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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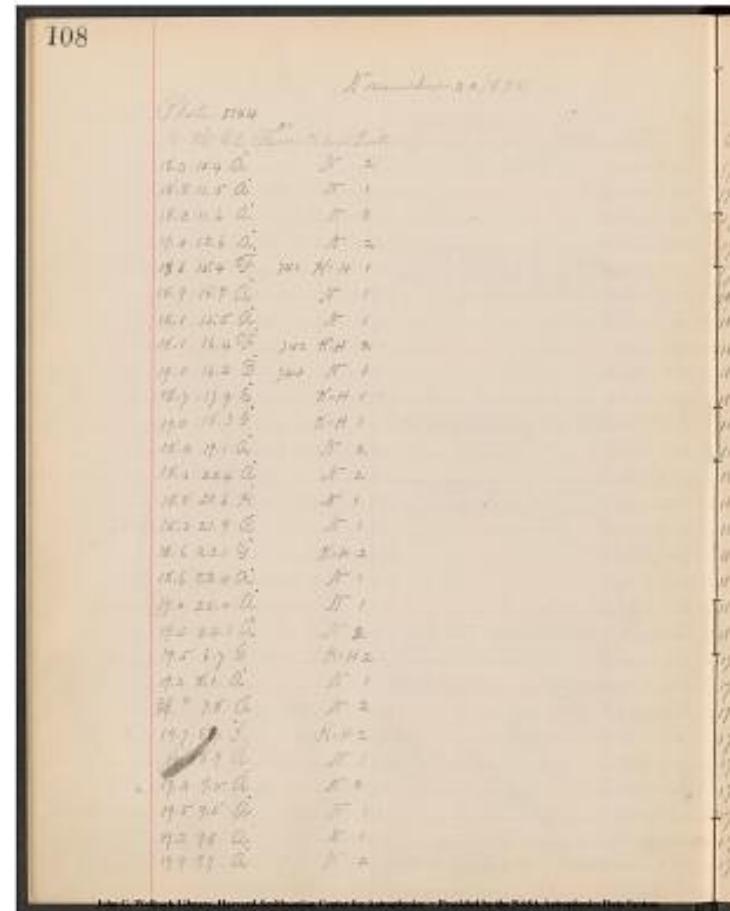
November 30, 1892

Plate 5184

[[table]]

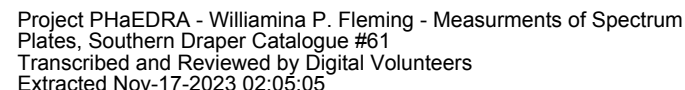
V | H | Cl. | No. Rem. | K line | Int. |

18.3	10.4	A		N	2
18.8	11.5	A		N	1
18.3	11.6	H		N	3
19.0	12.6	A		N	2
18.6	15.4	F	741	K=H	1
18.9	15.9	A		N	1
18.1	15.5	A		N	1
18.1	16.4	F	742	K=H	2
19.0	16.2	B	743	N	3
18.7	17.9	E		K=H	1
19.0	18.3	G		K=H	1
18.4	19.1	A		N	2
18.3	20.4	A		N	2
18.8	20.6	H		N	1
18.3	21.9	A		N	1
18.6	23.1	G		K=H	2
18.6	23.4	A		N	1
19.0	24.0	A		N	1
19.0	24.1	A		N	2
19.5	6.7	G		K=H	1
19.2	8.1	A		N	1
[[/striketrough]] 19. [[/striketrough]] 20.0 7.8 A N 2					
19.7	8.1	I		K=H	2
19.4	8.9	A		N	1
19.3	9.5	A		N	2
19.5	9.5	A		N	1
19.2	9.8	A		N	1
19.9	9.7	A		N	2



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum Plates, Southern Draper Catalogue #61
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[17 50.8|-33.5|24341|17^A|[h]] 50.4^|[m]]-33°23'|8.5| | | |
[17 53.2|-33.8|24422|17 53.4|-33 53|7.8| | | |
[17 53.4|-33.5|24423|17 53.3|-33 24|7.5| | | |
[17 56.0|-33.8| | | | -33 12750|17 54.0|-33 45.7|8.0 ZC|
[17 2.3|-33.8|24673|18 2.5|-33 35|8.5|-33 12874|18 0.9|-33 34.8|8.3 ZC.|
[18 3.6|-33.8| | | | -33 12877|18 1.0|-33 18.3|9.3 ZC|
[18 2.2|-33.4| | | | -33 12908|18 2.1|-33 41.2|9.0|
[18 4. |[strikethrough]]6|[strikethrough]]5|-33.4|24732|18 4.8|-33° 21|7.5|
[18 4.4|-33.8|24723|18 4. |[strikethrough]]3|[strikethrough]]4|-33 49|6.5|
[18 8.4|-33.6| | | | [[strikethrough]]-33 12995 18 6.8 -33 38.0 8.5
ZC[[strikethrough]]-33 12996|18 6.8|-33 30.0|9.4|
[18 9.5|-33.8|24853|18 9.5|-33 48|7.8| | | |
[18 11.5|-33.5|24901|18 11.2|-33 26|7| | | |
[18 14.5|-33.5|24983|18 14.3|-33 23|7.5| | | |
[18 15.4|-33.7|24996 18 14.9 -33 35|8|-33 13113|18 13.3|-33 34.5|8.0
ZC.|
[18 18.0|-33.5| | | | -33 15274|18 16.3|-33 20.0|8.4|
[18 21.1|-33.6|25141|18 20.9|-33 28|7|-33 13225|18 19.3|-33 28.7|7.3
ZC)|
[18 21.8|-33.6| | | | -33 13239|18 20.0|-33 25.1|8.5|
[18 23.5|-33.8|25210|18 23.1|-33 34| -33 13263|18 21.5|-33 34.7|8.5
ZC.|
[18 23.9|-33.8|25222|18 23.4|-33 33|8|-33 13269|18 21.8|-33 34.4|8.0
ZC.|
[17 41.0|-34.1|24123^[[24121]]|17 41.4^[[17 41.4]]-33 59^[[[-33
58]]|8^[[7.2]]-33 12477^[[[-33 12476]]|17 39.7^[[17 39.7]]-33 58.4^[[[-33
57.4]]|9.0 ZC.^?^[[7.3 ZC]]|
[17 44.4|-33.9| | | | -33 12540|17 43.1|-33 47.5|8.3 ZC.|
[17 44.0|-34.3| | | | -34 12134|17 42.5|-34 10.1|8.5 ZC.|
[17 46.0|-34.1|24253|17 46.2|-34 6|7| | | |
[17 46.4|-33.8| | | | -33 12579|17 45.1|-33 43.9|8.9 ZC|
[17 48.0|-33.8| | | | -33 12609|17 46.4|-33 52.9|7.7 ZC|
[17 48.0|-34.0| | | | -33 12608|17 46.4|-33 55.6|8.0 ZC|
[17 50.2|-34.1|24316|17 49.0|-33 48|8.5|-33 12623|17 47.3|-33 48.3|9.0
ZC)|
[17 50.0|-34.5|24334|17 50.1|-34 30|8.2| | | |



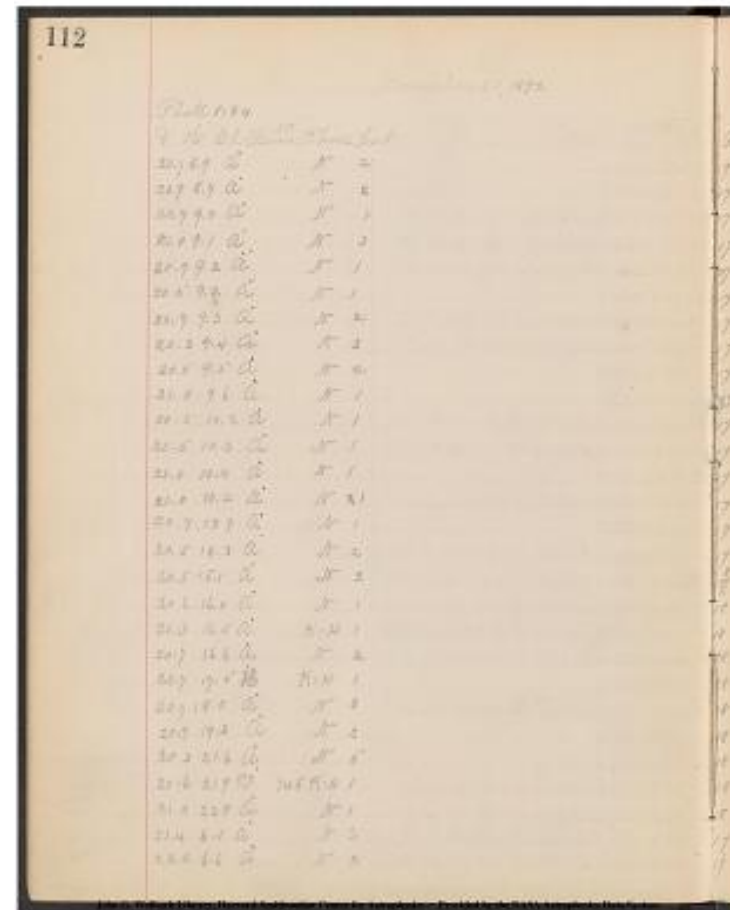
[[table]]									
R.A. 1900 Dec. No. A.G.C. 1900 R.A. 1900 Dec. Magn C.D.M.									
R.A. Dec. Magn.]									
--- --- --- --- --- --- --- --- --- ---									
17 51.0	-34.6				-34 12277	17 47.6	-34 15.6	8.5	ZC
17 52.3	-34.5				-34 12297	17 48.9	-34 14.0	9.0	ZC
17 53.0	-34.	[[strikethrough]]2	[[strikethrough]]3	[[strikethrough]]24369	17 51.4	-33 56	8.5	-33 12661	17 49.7
17 53.5	-33 12661	17 49.7	-33 55.7	8.5	ZC				
17 55.1	-34.2	24422	17 53.4	-33 53	7.8	-33 12697	17 51.7	-33 52.9	8.3
17 54.2	-34.0	24441	17 54.0	-33 54	9.5				
17 55.8	-34.3				-34 12386	17 54.1	-34 10.7	8.9	ZC
17 57.3	-34.1	24545	17 57.6	-34 3	7.5				
17 59.8	-34.3	24608	17 59.7	-34 19	8.2				
17 55.8	-34.3				-34 12386	17 54.1	-34 10.7	8.9	ZC
17 57.3	-34.1	24545	17 57.6	-34 3	7.5				
17 59.8	-34.3	24608	17 59.7	-34 19	8.2				
18 1.0	-34.3				-34 12486	17 59.4	-34 14.9	8.3	ZC
18 2.5	-34.1				-34 12522	18 0.9	-34 1.8	9.5	ZC
18 4.1	-34.0	24717	18 4.1	-33 56	7.2				
18 5.2	-34.2	24746	18 5.5	-34 6	7.5				
18 7.2	-34.4				-34 12610	18 5.7	-34 19.2	8.0	ZC
18 11.2	-34.2	24893	18 11.0	-34 9	var.				
18 12.0	-33.9				-33 13057	18 10.0	-33 49.1	8.8	ZC
18 19.3	-34.0	25104	18 19.3	-34.0	6.8				
18 23.2	-34.1	25206	18 23.1	-34 0	7.8				
17 40.1	-34.4	24092	17 40.0	-34 19	9				
17 40.1	-34.7	[[strikethrough]]25609	17 39.3	-34 41	8.2	[[strikethrough]]			
17 41.3	-34.4	24118	17 41.2	-34 17	7				
17 41.7	-34.7				-34 12080	17 39.9	-34 32.1	8.5	ZC
17 44.0	-34.	[[strikethrough]]5	[[strikethrough]]6	[[strikethrough]]25736					
17 44.1	-34 28	[[strikethrough]]24196	17 43.7	-34 27	8				
17 45.2	-34.6				-34 12144	17 43.1	-34 30.5	9.0	Z.C.
17 45.4	-34.6				-34 12152	17 43.5	-34 30.5	8.7	Z.C.
17 45.5	-34.4				-34 12170	17 44.0	-34 22.8	7.1	UA.
17 45.7	-34.4	24242	17 45.7	-34 24	7.1				
17 46.4	-34.7	[[strikethrough]]25802	17 46.3	-34 40					
8	[[strikethrough]]24262	17 46.7	-34 42	7.5					
17 45.2	-34.8	24236	17 45.3	-34 46	8.2				
[[/table]]									

CDM. * -34 12530 18 1.2 -34 1.5 according to chart plate 17444 is south instead of north of C.A.M. -34 12 52 2 In 3.C. + C.P.D. cat. the Dec. of the stars agree with plate. Error in C.D.M. probably.

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November 30, 1892
Plate 5184

[[table]]				
V H Cl.	No. Run	Kline	Int	
20.7 8.9 A	N	2		
20.9 8.9 A	N	2		
20.9 9.0 A	N	1		
21.0 9.1 A	N	3		
20.9 9.2 A	N	1		
20.5 9.2 A	N	1		
20.9 9.3 A	N	2		
20.3 9.4 A	N	3		
20.5 9.5 A	N	2		
21.0 9.6 A	N	1		
20.5 10.2 A	N	1		
20.5 10.3 A	N	1		
21.0 10.4 A	N	1		
21.0 10.2 A	N	2	1	
20.9 12.9 A	N	1		
20.5 14.3 A	N	2		
20.5 15.1 A	N	2		
20.6 16.0 A	N	1		
20.3 16.5 A	K=H	1		
20.7 16.6 A	N	2		
20.4 14.5 H	K=H	1		
20.4 18.0 A	N	3		
20.9 19.3 A	N	3		
20.3 21.6 A	N	5		
20.6 21.9 F	745	K=H	1	
21.0 23.8 A	N	1		
21.4 6.1 A	N	2		
22.0 6.6 A	N	2		



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]
 R.A. 1900|Dec.|No. A.G.C.|1900 R.A. |1900 Dec.|Magn|C.D.M.|R.A.|
 Dec.|Magn.|
 |-----|-----|-----|-----|-----|-----|-----|
 17 46. [[/strikethrough]]3 [[/strikethrough]]4|-34.7|24269|17^[[h]]
 46.9^[[m]]|-34° 40'|8| | | | | | |
 17 46. [[/strikethrough]]4 [[/strikethrough]]6|-34.8|24270|17 47.1|-34 46|8|
 | | | | | | | | | | | | |
 17 47.3|-34.7|24275|17 47.3|-34 43|7.5| | | | | |
 17 47.4|-34.7| | | | -34 12219^|[-34 12217]]|17 45.4^|17 45.4]]|-34
 45.0^|[-34 46.2]]|7.7 WA^|8.3 ?]]| | | | | | |
 17 47.5|-34.7|24285|17 47.6|-34 42|7.5| | | | | |
 17 47.3|-34. [[/strikethrough]]5 [[/strikethrough]]6| | | | -34 12229|17
 45.7|-34 29.7|9.6| | | | | | | | | | |
 17 47.7|-34.9|24290|17 47.7|-34 51|8| | | | | |
 17 47.8|-34.5| | | | -34 12244|17 46.1|-34 26.9|7.3 W.A.|
 17 48.0|-34.6|24298|17 48.2|-34 31|7.5|-34 12253|17 46.5|-34 30.6|7.4
 ZC.|
 17 48.2|-34.8| | | | -34 12254|17 46.5|-34 44.0|8.8|
 17 49.9|-34.5| | | | -34 12283|17 48.1|-34 28.3|9.0 ZC|
 17 50.1|-34.5| | | | -34 12289|17 48.4|-34 30.0|8.5 ZC|
 17 50.6|-34.8| | | | -34 12293|17 48.6|-34 44.0|9.0 ZC|
 17 50.0|-34.8|Not in A.G.C.| | | | -34 12284|17 48.1|-34 44.0|9.2|
 17 58.4|-34.7|Not in A.G.C.| | | | -34 12441|17 57.0|-34 42.9|8.8 ZC|
 17 59.6|-34.5|Not in A.G.C.| | | | -34 12463|17 58.1|-34 30.2|8.5 ZC|
 1 [[/strikethrough]]7 [[/strikethrough]]8 1.6|-34.5|Not in A.G.C.| | | -34
 12504|18 0.1|-34 31.2|8.3| | | | | | | | | | |
 18 4.0 |-34.6|Not in A.G.C.| | | | -34 12543|18 2.2|-34 33.3|8.5 ZC|
 18 4.8|-34.5|Not in A.G.C.| | | | -34 12568|18 3.7|-34 37.3|8.5 ZC|
 18 5.1|-34.7|Not in A.G.C.| | | | -34 12654|18 3.5|-34 24.8|9.3 ZC|
 18 7.4|-34.7|24804|18 7.5|-34 38|8| | | | | | | | |
 18 8.6|-34.7|24831|18 8.8|-34 38|7.2| | | | | | | | |
 18 11.9|-34.8|24918|18 11.9|-34 44|7.2| | | | | | | | |
 18 17.7|-34.4|25058|18 17.5|-34 23|7.5| | | | | | | | |
 18 18.1|-34.4|25061|18 17.6|-34 25|7.5| | | | | | | | |
 18 23.0|-34.8|25195|18 22.8|-34 36|8.2|-34 12858|18 21.1|-34 36.3|8.5
 ZC|
 17 39.5|-35.1| | | | -34 12050|17 38.1|-34 50.1|8.0 ZC|
 17 40.9|-35.4| | | | -35 11929|17 39.4|-35 10.2|8.4|



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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November 30, 1892

Plate 5184

[[table]]

V|H|C|No Rem|Kline|Int|

2	2	1.7	7.1	A	N 2
2	2	1.6	8.0	A	N 2
21.1	8.3	A			N 2
21.5	8.5	A			N 1
21.4	8.6	A			N 1
21.5	8.8	A			N 2
21.6	9.0	A			N 2
21.2	9.2	A			N 2
21.2	9.4	A			N 2
21.7	9.6	A			N 1
21.8	9.7	A			N 1
21.6	10.0	A			N 1
21.6	10.1	A			N 2
21.9	10.4	A			N 2
21.3	10.6	A			N 1
21.5	12.3	A			N 1
21.1	13.1	A			N 1
21.7	13.5	A			N 1
21.5	14.9	A			N 1
21.4	15.7	A			N 1
21.5	16.4	A			N 2
21.8	16.6	A			N 1
21.9	16.9	A			N 1
21.3	17.2	A			N 1
21.6	17.7	H			N 1
22.0	18.3	H			N 1
21.6	19.2	A			N 1
21.1	19.6	G			K=H 1

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[illegible]

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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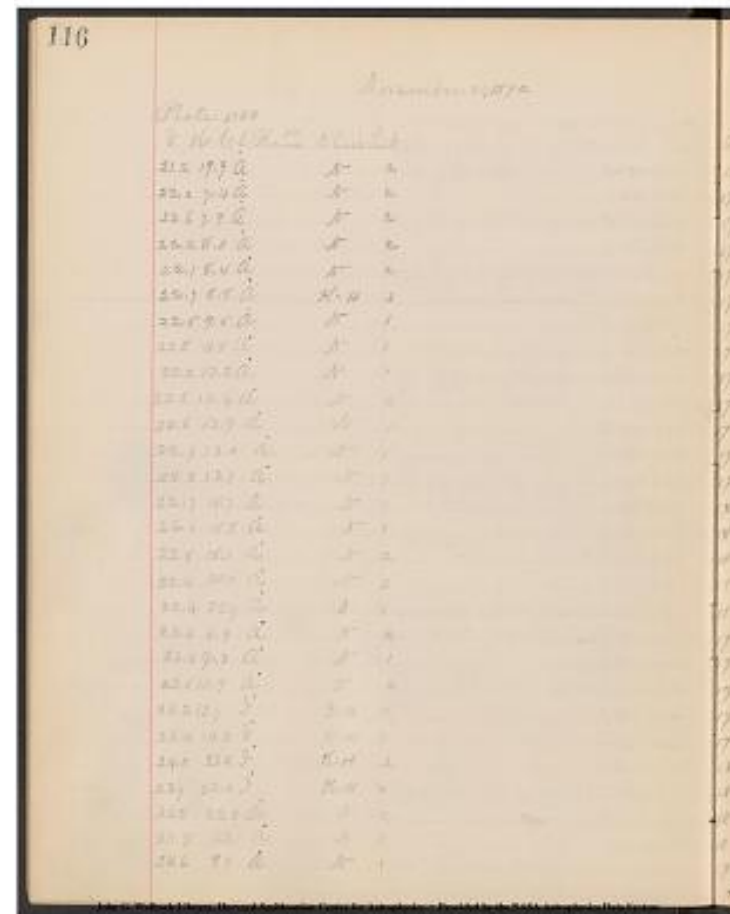
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November 30, 1892

Plate 5184

[[6 column table]]

V	H	Cl.	No.	Rem.	K line	Int.
21.2	19.9	A		N	2	
22.3	7.4	A		N	2	
22.6	7.9	A		N	2	
22.2	8.0	A		N	2	
22.1	8.4	A		N	2	
22.7	8.8	A		K=H	3	
22.5	9.5	A		N	1	
22.8	11.8	A		N	1	
22.2	12.2	A		N	1	
22.8	12.6	A		N	2	
22.6	12.9	A		N	1	
22.7	13.0	A		N	1	
22.3	13.7	A		N	1	
22.7	15.7	A		M	1	
22.6	15.8	A		N	1	
22.8	18.1	A		N	2	
22.4	20.0	A		N	3	
22.4	22.7	a	740	N	1	
23.4	6.9	A		N	2	
23.3	9.3	A		N	1	
23.5	10.9	A		N	2	
23.2	13.7	I		K=H	2	
23.4	14.3	G		K=H	3	
24.0	21.2	I		K=H	2	
23.7	22.0	I		K=H	2	
23.8	22.8	A		N	2	
23.8	23.1	A		N	1	
24.6	9.1	A		N	1	

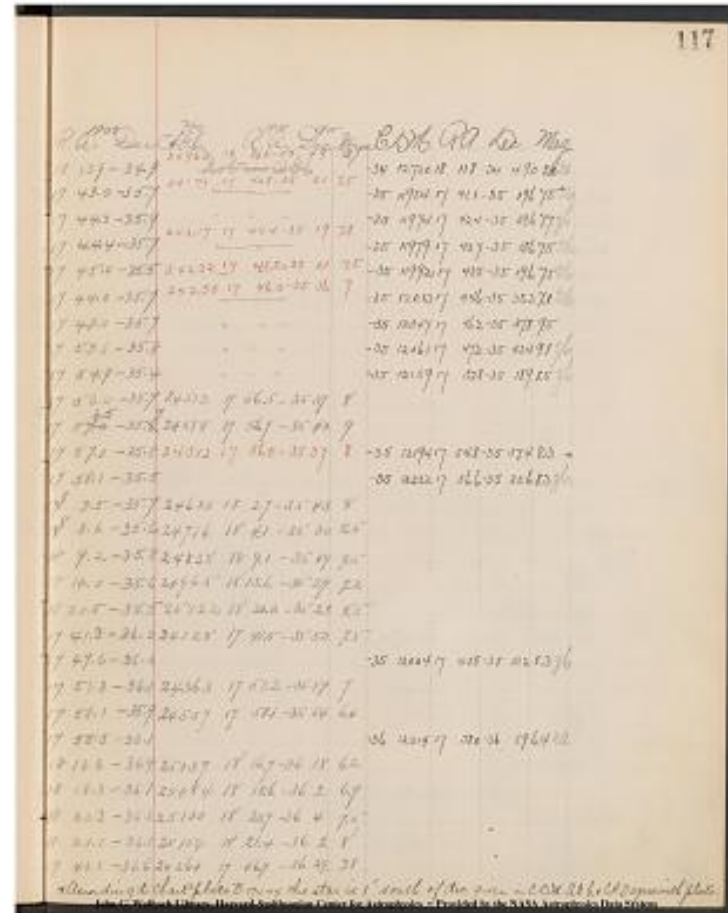
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[[table]]									
R.A. 1900 Dec. No. A.G.C. 1900 R.A. 1900 Dec. Magn C.D.M. R.A.									
Dec. Magn.]									
18 13.9 -34.9	[[/strickethrough]]	Not in A.G.C	[[/strickethrough]]	24963	18				
13.5 -34 49 8 -34 12720	18 11.8 -34 49.0	8.0 GC							
17 43.0 -35.7	[[/strickethrough]]	Not in A.G.C	[[/strickethrough]]	24171	17				
42.8 -35 21 7.5 -35 11954	17 41.1 -35 19.6	7.5 GC							
17 44.3 -35.9	Not in A.G.C								
17 44.4 -35.7	[[/strickethrough]]	Not in A.G.C	[[/strickethrough]]	24217	17				
44.4 -35 19 7.8 -35 11979	17 42.7 -35 18.6	7.5 GC							
17 45.0 -35.5	[[/strickethrough]]	Not in A.G.C	[[/strickethrough]]	24232	17				
45.2 -35 21 7.5 -35 11992	17 43.5 -35 19.6	7.5 GC							
17 44.0 -35.7	[[/strickethrough]]	Not in A.G.C	[[/strickethrough]]	24255	17				
46.3 -35 36 7 -35 12013	17 44.6 -35 35.3	7.1 GC							
17 48.0 -35.7	Not in A.G.C								
17 53.6 -35.8	Not in A.G.C								
17 54.9 -35.4	Not in A.G.C								
17 56.0 -35.7	24512	17 56.5 -35 37 8							
17 5	[[/strickethrough]]	7.0	[[/strickethrough]]	6.5 -35.	[[/strickethrough]]				
8	[[/strickethrough]]	7	24518	17 56.7 -35 43 9					
17 57.0 -35.8	24512	17 56.5 -35 37 8 -35 12194	17 54.8 -35 37.4	8.3*					
17 58.1 -35.5									
1	[[/strickethrough]]	7	[[/strickethrough]]	8 3.5 -35.7	24680	18 2.7 -35 43 8			
1	[[/strickethrough]]	7	[[/strickethrough]]	8 3.6 -35.6	24716	18 4.1 -35 30 8.5			
18 9.2 -35.8	24838	18 9.1 -35 49 9.5							
18 14.0 -35.6	24965	18 13.6 -35 29 7.2							
18 20.5 -35.5	25122	18 20.3 -35 23 8.5							
17 41.3 -36.0	24128	17 41.5 -35 52 7.5							
17 47.6 -36.0									
17 51.3 -36.1	24363	17 51.2 -35 59 7							
17 58.1 -35.9	24577	17 58.1 -35 54 6.4							
17 55.5 -36.1									
18 16.6 -36.4	25037	18 16.7 -36 18 6.2							
18 18.3 -36.1	25084	18 18.6 -36 2 6.7							
18 20.3 -36.1	25130	18 20.7 -36 4 7.0							
18 21.1 -36.1	25154	18 21.4 -36 2 8							
17 46.1 -36.6	24264	17 46.7 -36 29 7.8							
[[/table]]									

*According to chart plate B17444 this star is 1' south of dec given in C.D.M. A.G.C. & C.P.D agree with plate.



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Plate 5184

[[table]]

V | H | Cl | No. Rem. | K line | Int. |

24.3	9.4	A		N	1
24.4	9.7	A		N	3
24.2	12.4	A		N	3
24.2	12.6	A		N	2
24.6	14.0	A		N	2
24.7	14.6	A		N	1
24.2	15.2	A		N	1
24.5	16.8	A		N	1

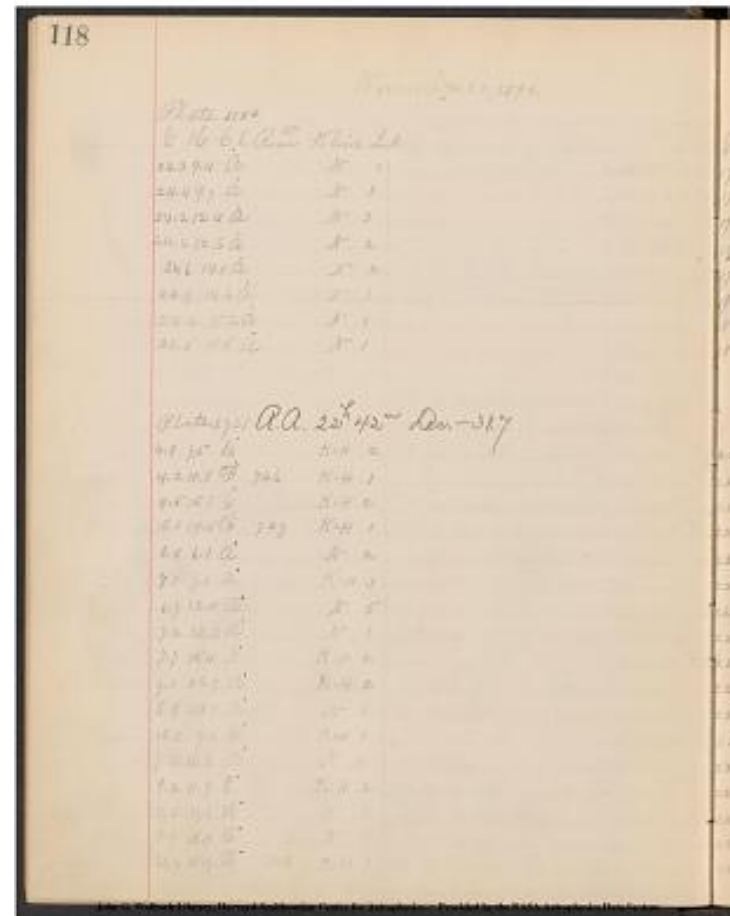
[[/table]]

Plate 3721 R.A. 22^h 42^m Dec. -31 7

[[table]]

4.9	7.5	L		K=H	2
4.2	10.8	F	746	K=H	1
4.5	15.1	G		K=H	2
5.0	19.5	F	747	K=H	1
5.8	6.1	A		N	2
7.0	7.1	A		K=H	3
6.7	12.0	A		N	5
7.2	12.3	A		N	1
7.7	15.4	I		K=H	2
7.1	22.7	A		K=H	2
8.9	13.1	A		N	1
10.0	7.1	G		K=H	1
9.2	11.6	A		N	2
9.2	11.7	E	719	K=H	2
9.5	17.6	H		N	1
8.7	18.7	A		N	1
10.7	10.7	F		N	1

[[/table]]



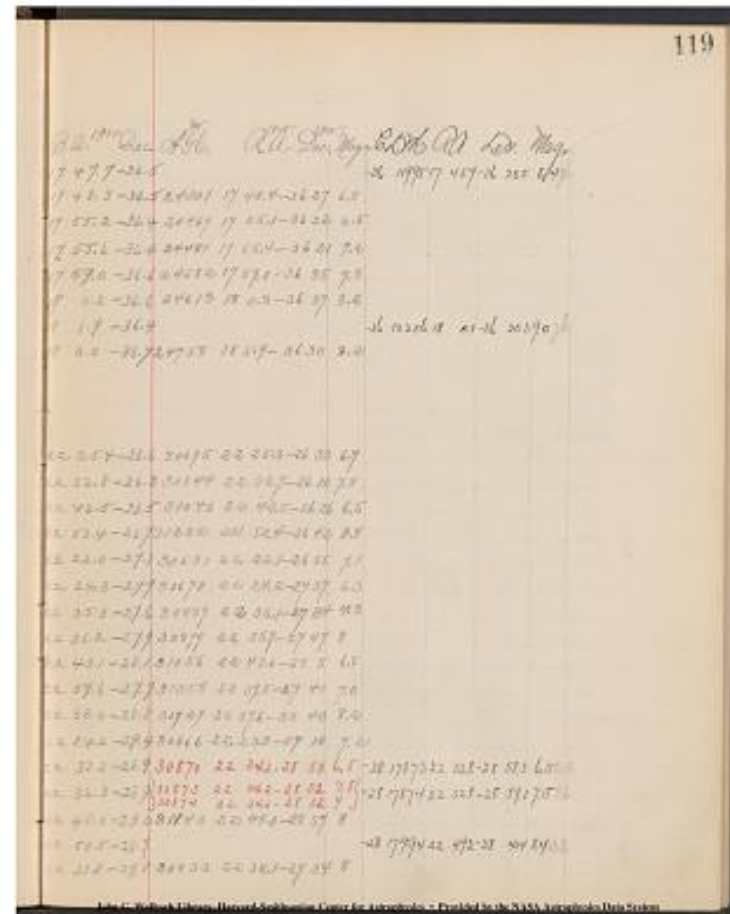
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[[10 Column Table]]

R.A. 1900|Dec.| No. A.G.C.|1900 R.A. |1900 Dec.|Magn|C.D.M.| R.A.|
Dec.|Magn.]

17 47.7	-36.5								
17 48.3	-36.5	24301	17 48.4	-36 27	6.8				
17 55.2	-36.4	24469	17 55.1	-36 22	6.5				
17 55.6	-36.4	24481	17 55.4	-36 21	7.2				
17 59.0	-36.6	24581	17 59.0	-36 35	7.8				
18 0.2	-36.6	24613	18 0.3	-36 37	8.2				
18 1.9	-36.4								
18 6.0	-36.7	24758	18 5.9	-36 30	8.2				
22 25.4	-26.6	30695	22 25.3	-26 33	6.7				
22 32.8	-26.3	30844	22 32.7	-26 10	7.8				
22 42.5	-26.5	31046	22 42.5	-26 26	6.5				
22 52.4	-26.7	31222	22 52.4	-26 42	8.8				
22 22.0	-27.1	30631	22 22.1	-26 55	7.1				
22 24.3	-27.7	30670	22 24.2	-27 37	6.3				
22 35.3	-27.6	30889	22 35.1	-27 34	4.3				
22 36.2	-27.9	30899	22 35.9	-27 47	8				
22 43.1	-28.1	31056	22 43.0	-28 51	6.8				
22 59.6	-27.7	31358	22 59.5	-27 41	7.0				
22 38.0	-28.8	30929	22 37.6	-28 40	8.2				
22 24.2	-29.4	30666	22 23.8	-29 10	7.2				
22 32.3	-28.9	30870	22 34.2	-28 50	6.5	-28 17873	22 32.8	-28 58.3	6.5
22 32.3	-28.9	{30873}	22 34.2	-28 52	7.8	-28 17874	22 32.8	-28	
59.1	7.5								
		{30874}	22 34.2	-28 52	9				
22 48.0	-29.0	31140	22 48.0	-28 57	8				
22 50.5	-28.7								
22 31.8	-29.8	30833	22 32.1	-29 34	8				

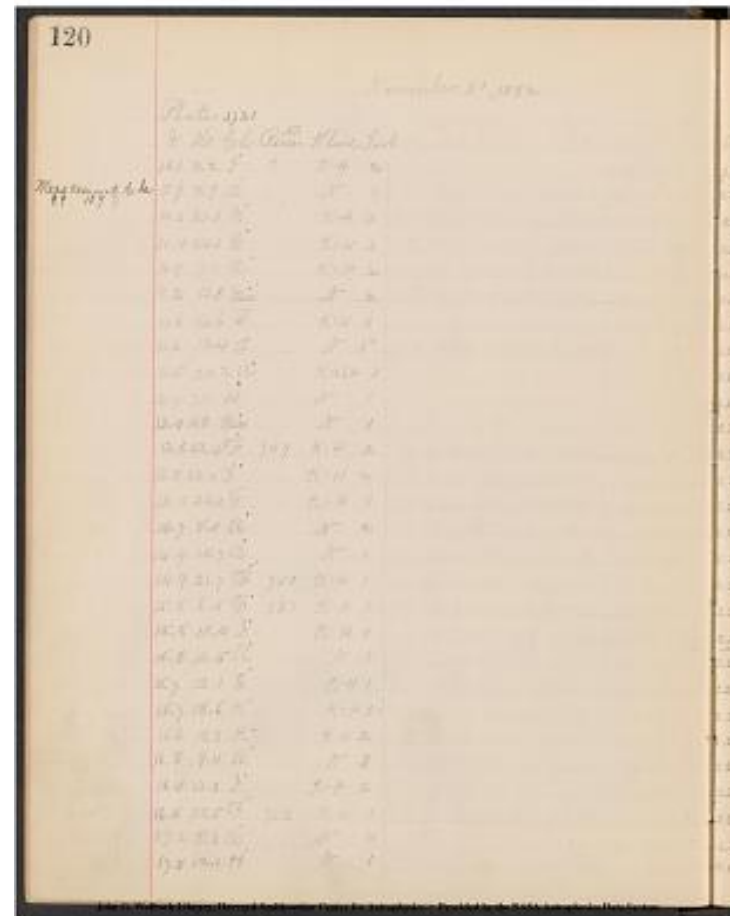
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November 30, 1892
Plate 3721

[[table]]						
V	H	Cl.	No.	Rem	K line	Int.
10.1	11.2	I	I		K=H	2
^[[Meas. assumed to be 9.9 18.9?]] 9.9 8.9 A N 1						
10.3	21.0	K			K=H	3
10.4	24.1	G			K=H	3
11.9	9.0	A			K=H	2
11.2	12.8	Ma			N	2
11.6	16.6	G			K=H	3
11.6	19.4	A			N	5
11.5	20.2	A			K=0.6H	3
12.7	7.1	H			N	1
12.4	11.8	Ma			N	1
12.8	23.4	F	749		K=H	2
13.8	12.0	I			K=H	2
13.5	22.0	G			K=H	1
14.7	8.0	A			N	2
14.9	15.7	A			N	1
14.9	21.7	F	750		K=H	1
15.8	6.5	F	751		K=H	1
15.8	10.4	I			K=H	3
15.8	12.5	A			N	1
15.7	13.1	E			K=H	1
15.7	18.6	K			K=H	2
15.6	18.8	K			K=H	2
16.8	9.4	A			N	3
16.4	12.3	I			K=H	2
16.4	23.5	F	752		K=H	1
17.2	8.3	A			N	4
17.8	12.1	H			N	1



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]

1900 R.A. | 1900 Dec. | No. A.G.C. | 1900 R.A. | 1900 Dec. | Magn. | C.D.M.
R.A. | Dec. | Magn. |

22 32.4 | 29.3 | 31198 | 22 51.0 | 29 8 | 8 | 29 18414 | 22 31.8 | 29 23.8 | 6.8
WA |

22 | Ask Mrs. F. | | | | 29 18504 | 22 49.6 | 29 16.3 | 8.0 GC |

22 55.8 | 29.4 | 31288 | 22 55.9 | 29 2.3 | 5.9 | | | |

23 3.4 | 29.4 | 31414 | 23 3.0 | 29 2.2 | 6.0 | | | |

22 28.0 | 30.3 | 30752 | 22 27.9 | 30 10 | 7 | | | |

22 36.8 | 29.9 | 30917 | 22 36.8 | 29 53 | 6.5 | | | |

22 43.7 | 30.1 | 31069 | 22 43.7 | 30 4 | 8.5 | | | |

22 52.2 | 30.2 | 31213 | 22 52.1 | 30 9 | 1.4 | | | |

22 53.9 | 30.0 | 31247 | 22 54.2 | 30 0 | 5.9 | | | |

22 23.4 | 30.7 | 30655 | 22 23.6 | 30 30 | 7.5 | | | |

22 34.2 | 30.5 | | | | 30 19248 | 22 33.1 | 30 35.9 | 7.5 ZC |

23 1.7 | 30.6 | 31392 | 23 1.6 | 30 35 | 6.7 | | | |

[[underlined]] 22 34.9 [[underlined]] 22 34.9 | 31.2 | 30884 | 22 34.8 | 31

10 | 6.3 | | | | | | | |

22 58.1 | 30.9 | 31336 | 22 58.3 | 30 59 | 7.0 | | | |

22 25.0 | 31.6 | 30694 | 22 25.3 | 31 32 | 7.8 | | | |

22 43.6 | 31.8 | 31068 | 22 43.7 | 31 44 | 8.2 | | | |

22 57.6 | 31.7 | 31320 | 22 57.7 | 31 41 | 8 | | | |

22 21.5 | 32.2 | 30627 | 22 21.8 | 32 3 | 8 | | | |

[[underlined]] 22 31.1 | 32.2 [[underlined]] | 30811^ | [[30810]] | 22 31.0 | 32

9^ | [[11]] | 7.3^ | [[6.1]] | | | | |

22 36.0 | 32.2 | | | | 32 17198 | 22 34.4 | 32 16.5 | 8.5 |

22 37.4 | 32.2 | | | | 32 17211 | 22 35.9 | 32 16.5 | 7.7 |

22 50.5 | 32.2 | 31180 | 22 50.4 | 32 10 | 6.5 | | | |

22 57.0 | 32.1 | 31192 | 22 50.8 | 32 6 | 6.8 | | | |

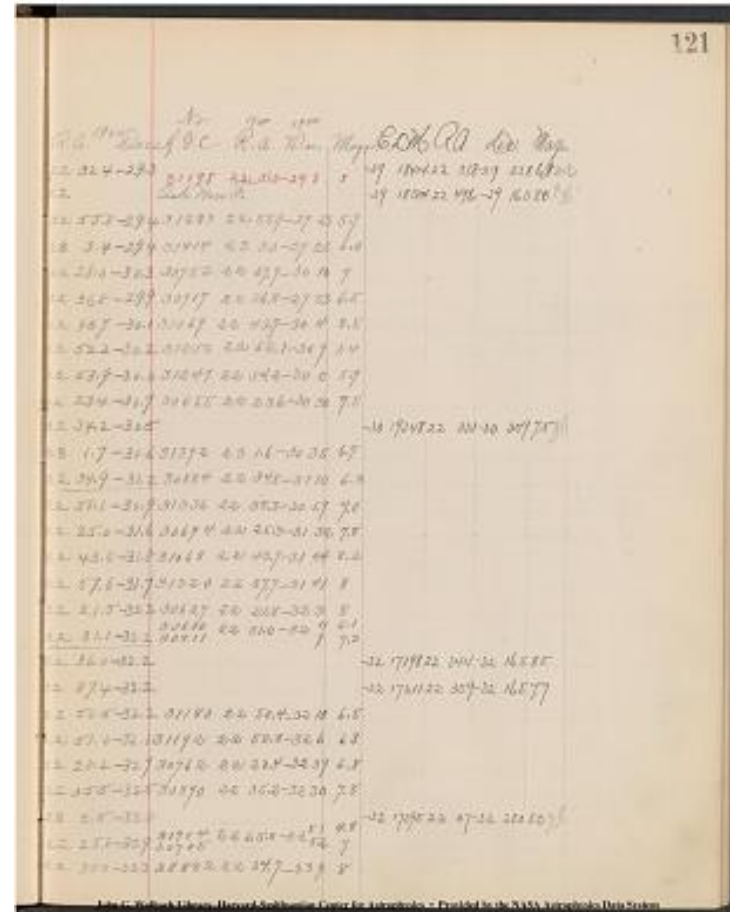
22 28.2 | 32.7 | 30762 | 22 28.4 | 32 39 | 6.8 | | | |

22 35.5 | 32.5 | 30890 | 22 35.2 | 32 30 | 7.8 | | | |

23 2.5 | 32.4 | | | | 32 17395 | 22 0.7 | 32 28.0 | 8.0 ZC |

22 25.8 | 32.9 | 30705^ | [[30704]] | 22 25.8 | 32 52^ | [[51]] | 7^ | [[4.8]] | | | |

22 35.0 | 33.3 | 30882 | 22 34.7 | 33 9 | 8 | | | |



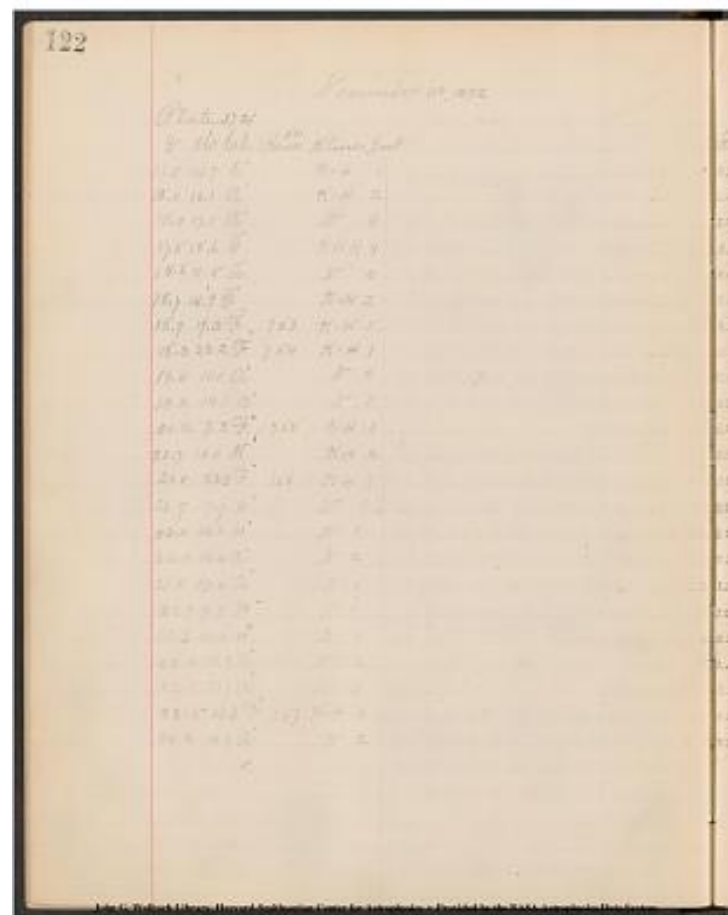
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November 30, 1892

Plate 3721

[[table]]

V	H	Cl.	No.	Rem	K line	Int.
17.8	14.9	E		K=H	1	
18.0	16.1	A		K=H	2	
18.0	17.1	A		N	4	
17.5	18.6	G		K=1.2H	4	
18.6	11.5	A		N	3	
18.7	14.9	G		K=H	2	
18.9	19.3	F	753	K=H	1	
18.3	22.2	F	754	K=H	1	
11.5	20.2	A		K=0.6H	3	
19.4	11.1	A		N	2	
19.2	14.1	A		N	1	
20.2	7.3	F	755	K=H	1	
20.7	15.0	K		K=H	2	
21.0	23.3	F	756	K=H	1	
21.9	9.7	H		N	1	
22.0	15.0	H		N	1	
22.0	15.5	A		N	2	
21.8	17.0	A		N	1	
22.9	9.3	H		N	1	
22.8	12.0	H		N	1	
22.4	15.9	A		N	2	
22.0	21.7	A		N	3	
23.5	19.6	F	757	K=H	2	
24.2	16.7	A		N	2	

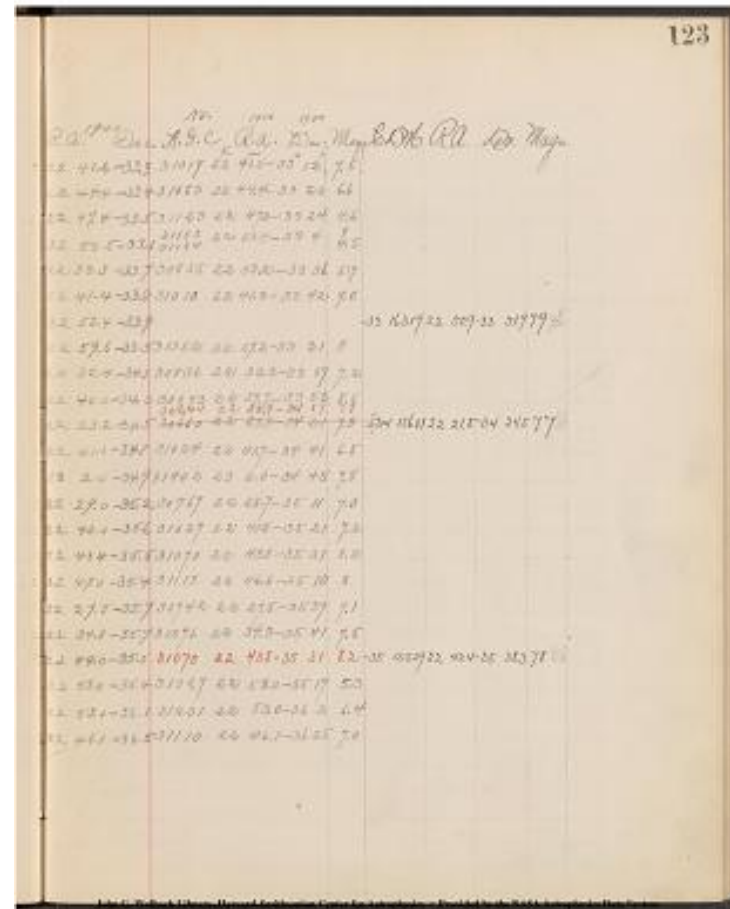


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]

R.A. 1900| Dec. | No. A.G.C | 1900 R.A. | 1900 Dec. | Magn | C.D.M. |
R.A. | Dec. | Magn.

22 41.6	-33.3	31019	22 41.5	[[h]]	41.5	[[m]]	-33 12	7.5				
22 44.4	-33.4	31083	22 44.4	-33 20	6.6							
22 47.4	-33.5	31123	22 47.0	-33 24	4.6							
22 50.5	-33.1	31184	[[31183]]	22 50.4	-33 44.5	[[9]]						
22 33.3	-33.7	30855	22 33.2	-33 36	5.9							
22 41.4	-33.8	31010	22 41.3	-33 42	7.0							
22 52.4	-33.9			-33 16	319	22 50.9	-33 51.9	7.9	ZC			
22 59.6	-33.5	31352	22 59.2	-33 21	8							
22 32.4	-34.1	30836	22 32.3	-33 59	7.2							
22 40.0	-34.0	30973	22 39.7	-33 53	8.5							
22 23.2	-34.5	[[strikethrough]]	30660	22 23.8	-34 21							
7.8	[[strikethrough]]	30644	22 22.9	-34 17	7.8	-34 15	601	22 21.5	-34 24.5	7.7	GC	
22 41.6	-34.8	31024	22 41.7	-34 41	6.5							
23 2.0	-34.9	31402	23 2.0	-34 45	7.8							
22 29.0	-35.2	30769	22 28.7	-35 11	7.0							
22 42.0	-35.6	31027	22 41.8	-35 21	7.2							
22 43.4	-35.5	31070	22 43.8	-35 31	8.2							
22 47.0	-35.4	31118	22 46.6	-35 10	8							
22 27.5	-35.7	30742	22 27.5	-35 39	7.1							
22 34.8	-35.7	30876	22 34.3	-35 41	7.5							
22 44.0	-35.5	31070	22 43.8	-35 31	8.2	-35 15	529	22 42.4	-35 38.3	7.8	GC	
22 58.0	-35.4	31327	22 58.0	-35 17	5.3							
22 53.0	-36.1	31231	22 53.0	-36 3	6.4							
22 46.1	-36.5	31110	22 46.1	-36 25	7.0							



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Plates, Southern Draper Catalogue #61
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R.A. 18^h 41^m Dec.-31.5

December 1, 1892

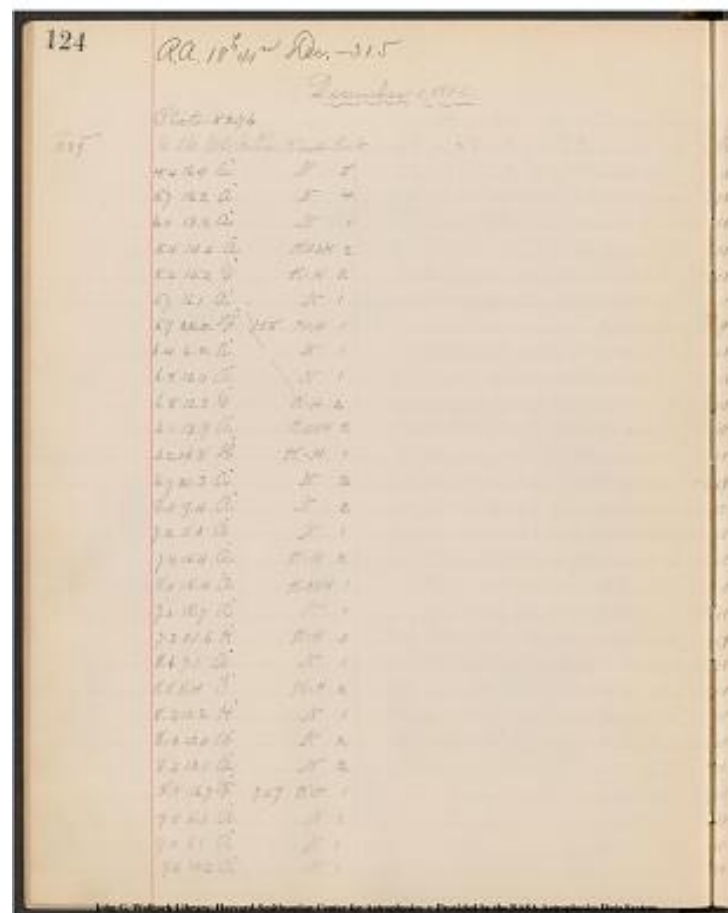
Plate 5276

23^h 9^m

[[table]]

V | H | Cl. | No. Rem | K line | Int. |

4.4	16.4	A	N	5	
5.7	12.2	A	N	4	
6.0	13.2	A	N	1	
5.4	14.4	A	K=0.3H	2	
5.2	15.2	G	K=H	2	
5.7	16.1	A	N	1	
5.9	22.2	F	758	K=H	1
6.4	6.2	A	N	1	
6.8	10.4	A	N	1	
6.8	12.3	G	K=H	2	
6.1	13.9	A	K=0.4H	2	
6.2	14.8	H	K=H	1	
6.7	21.3	A	N	2	
8.0	9.4	A	N	2	
7.2	11.0	A	N	1	
7.4	15.4	A	K=H	2	
8.0	18.4	A	K=0.5H	1	
7.3	18.7	A	N	1	
7.3	21.6	K	K=H	3	
8.6	7.1	A	N	1	
8.8	8.4	I	K=H	2	
8.3	10.2	H	N	1	
8.3	12.0	A	N	2	
8.3	13.1	A	N	2	
5.1	16.7	F	759	K=H	1
9.5	5.5	A	N	2	
9.0	6.1	A	N	1	
9.4	10.3	A	N	1	



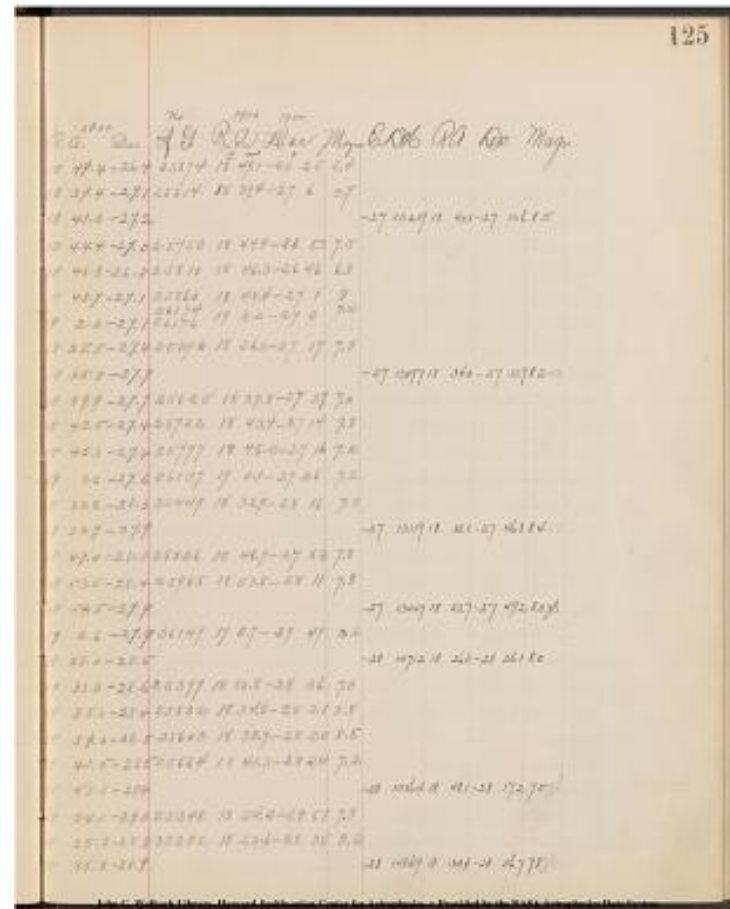
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
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[[table]]

R.A. 1900| Dec. | No. Z.C | 1900 R.A. | 1900 Dec. | Magn | C.D.M. |
R.A. | Dec. | Magn|

R.A. 1900	Dec.	No. Z.C	1900 R.A.	1900 Dec.	Magn	C.D.M.
18 49.4	-26.4	25874	18 ^h 49 ^m 49.1 ^s	-26 [°] 25'	2.4	
18 39.4	-27.1	25614	18 39.4	-27 6	3.7	
18 41.6	-27.2		-27 13219	18 40.1	-27 13.6	8.5
18 44.4	-27.0	25750	18 44.4	-26 53	7.5	
18 46.3	-26.8	25810	18 46.3	-26 46	6.8	
18 48.7	-27.1	25860	18 48.4	-27 18		
19 2.0	-27.1	26176 ^h	19 2.0	-27 0	7.2	
18 25.5	-27.4	25292	18 26.0	-27 17	7.8	
18 35.8	-27.7		-27 13097	18 34.0	-27 33.9	8.2 o.a.
18 39.9	-27.7	25625	18 39.8	-27 37	7.0	
18 43.5	-27.4	25722	18 43.4	-27 14	7.8	
18 45.3	-27.4	25777	18 45.2	-27 16	7.2	
19 0.0	-27.6	26107	19 0.1	-27 26	7.2	
18 33.2	-28.3	25449	18 32.9	-28 16	7.5	
18 36.7	-27.9		-27 13119	18 35.1	-27 46.3	8.4 oa
18 47.0	-28.0	25826	18 46.9	-27 52	7.8	
18 53.5	-28.4	25965	18 53.8	-28 11	7.8	
18 54.5	-27.9		-27 13447	18 52.7	-27 49.2	8.0 ZC.
19 0.6	-27.9	26149	19 0.7	-27 49	3.6	
18 28.0	-28.5		-28 14712	18 26.3	-28 26.1	8.0
18 31.0	-28.6	25399	18 30.8	-28 36	7.0	
18 35.0	-28.4	25502	18 34.8	-28 21	8.8	
18 39.0	-28.5	25603	18 38.9	-28 20	8.5	
18 41.5	-28.5	25664	18 41.3	-28 24	7.2	
18 50.1	-28.4		-28 15164	18 48.1	-28 17.2	7.5 ZC
18 24.0	-29.0	25248	18 24.2	-28 51	7.8	
18 25.5	-28.8	25282	18 25.6	-28 35	8.2	
18 35.2	-28.9		-28 14869	18 33.4	-28 56.7	7.8 ZC

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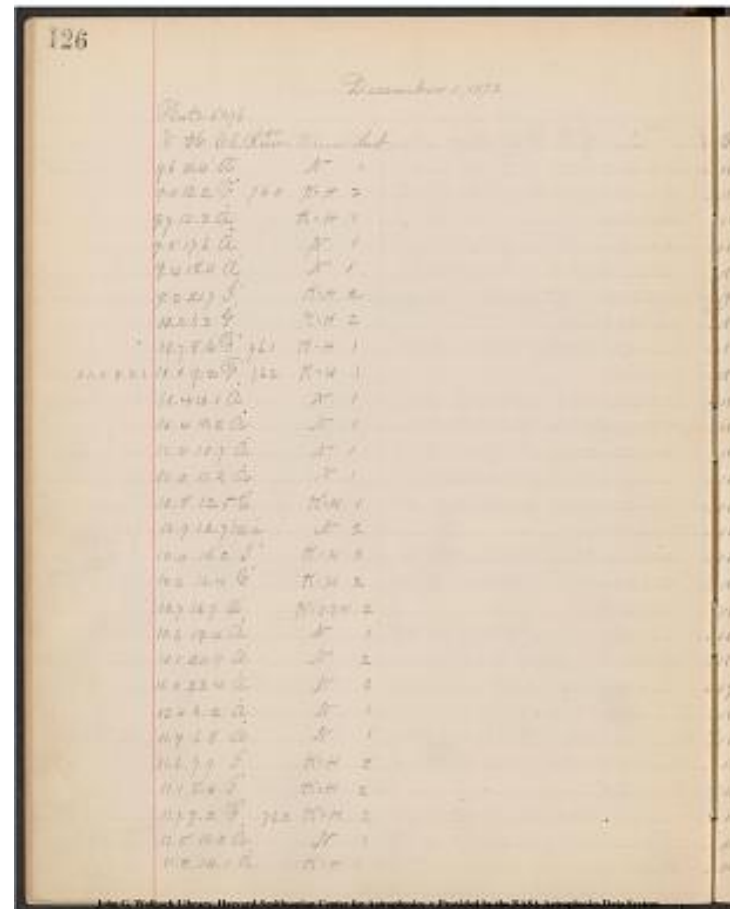


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[preprinted]] 126[[/preprinted]]

December 1, 1892
Plate 5276

[[table]]						
V	H	Cl.	No.	Rem	K line	Int.
9.6	10.4	A		N	1	
9.4	12.2	F	760	K=H	2	
9.7	12.3	A		K=H	1	
9.5	17.6	A		N	1	
9.4	18.4	A		N	1	
9.3	21.7	J		K=H	2	
10.2	6.3	G		K=H	2	
10.7	8.6	F	761	K=H	1	
^[[11.0 9.2?]] 10.0 9.2 F 762 K=H 1						
10.4	10.1	A		N	1	
10.4	10.2	A		N	1	
11.0	10.7	A		N	1	
11.0	11.2	A		N	1	
10.8	12.5	E		K=H	1	
10.9	12.7	Ma		N	2	
10.3	15.2	I		K=H	3	
10.2	16.4	G		K=H	2	
10.7	16.7	A		K=0.2H	2	
10.6	19.4	A		N	1	
10.1	20.9	A		N	2	
11.0	23.4	A		N	3	
12.0	6.2	A		N	1	
11.9	6.8	A		N	1	
11.6	7.9	I		K=H	2	
11.1	8.0	I		K=H	2	
11.7	9.2	F	763	K=H	2	
11.5	10.0	A		N	1	
11.8	14.1	A		K=H	1	
[[/table]]						



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]

R.A. 1900 | Dec. 1900 | No. A.G.C. | 1900 R.A. | 1900 Dec. | Magn |
C.D.M. | R.A. | Dec. | Magn |

18 35.5	-29.1					-29 15233	18 33.7	-29 37	8.9 Z.C.
18 39.7	-29.0					-28 14956	18 37.8	-28 54.0	8.3 Z.C.
18 40.0	-29.2					-29 15317	18 38.0	-29 5.5	8.8 Z.C.
18 52.5	-29.0					-28 15212	18 50.3	-28 55.3	7.9 Z.C.
18 54.5	-28.9	25994	18 54.8	-28 51	8				
19 1.2	-28.8	26161	19 1.2	-28 48	6.5				
18 26.0	-29.4	25290	18 25.9	-29 16	7				
18 31.1	-29.7	25402	18 30.9	-29 33	7.8				
18 32.5	-29.8	25430	18 32.4	-29 44	8.2				
18 34.8	-29.5					-29 15218	18 32.9	-29 26.1	9.1
18 35.0	-29.5					-29 15220	18 33.0	-29 25.1	9.0
18 36.1	-29.8	25536	18 36.3	-29 35	8.2				
18 37.3	-29.8					-29 15265	18 35.4	-29 46.1	8.7 ZC
18 40.5	-29.7	25641	18 40.4	-29 37	8.8				
18 41.1	-29.7	25644	18 40.4	-29 45	7.2				
18 46.4	-29.5	25808	18 46.3	-29 29	6.5				
18 49.3	-29.4	25873	18 49.1	-29 20	7.1				
18 49.9	-29.6	25887	18 49.8	-29 36	7.2				
18 56.0	-29.5					-29 15629	18 54.4	-29 30.6	7.8
18 59.6	-29.2	26121	18 59.5	-29 14	7.0				
19 4.8	-29.7	26254	19 5.0	-29 40	6.5				
18 25.1	-30.4	25280	18 25.4	-30 8	8.2	-30 15795	18 238	-30 9.2	8.0 GC
18 27.0	-30.3	25320	18 26.3	-30 8	8.5				
18 29.2	-30.1	25368	18 29.3	-30 1	7.2				
18 29.5	-29.8	25375	18 29.6	-29 47	6.9				
18 32.4	-30.2	25429	18 32.3	-30 7	7.1				
18 34.3	-30.0					-29 15211	18 29.5	-29 59.8	8.4
18 44.4	-30.2					-30 16277	18 41.9	-30 8.6	8.6 Z.C.

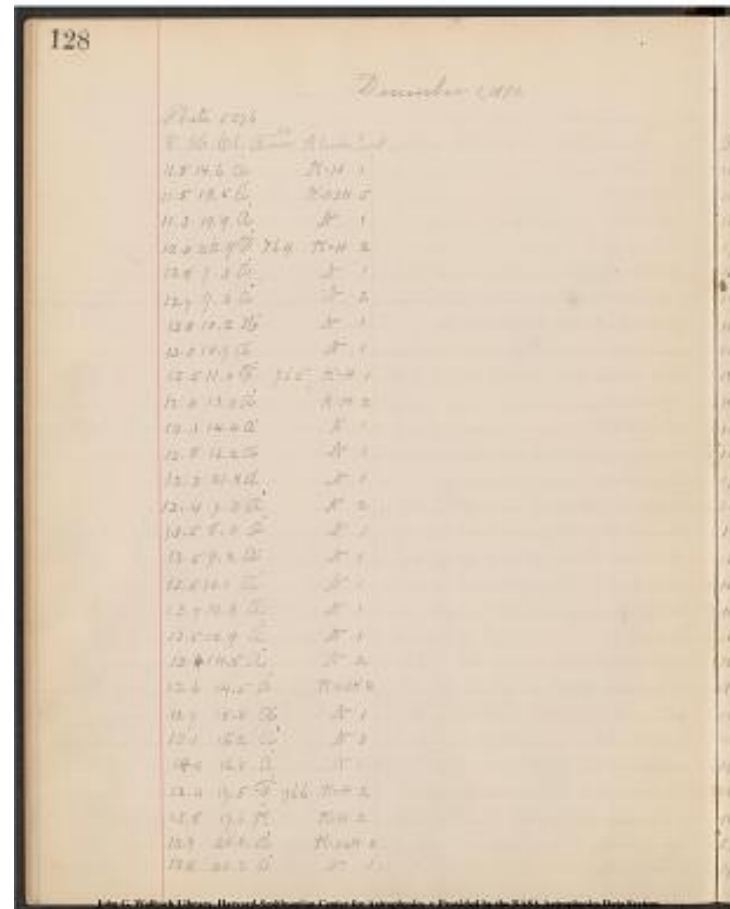
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]

V	H	Cl.	No.	Rem	K line	Int.	R
11.8	14.6	A			K=H	1	
11.5	19.5	A			K=0.3H	5	
11.3	19.9	A			N	1	
12.0	22.9	F	764		K=H	2	
12.8	7.3	A			N	1	
12.7	9.3	A			N	2	
12.8	10.2	H			N	1	
13.0	10.7	A			N	1	
12.5	11.0	F	765		K=H	1	
12.3	13.3	A			K=H	2	
12.3	14.4	A			N	1	
12.8	16.2	A			N	1	
12.3	21.5	A			N	1	
13.4	7.3	A			N	2	
13.5	8.0	A			N	1	
13.5	9.2	A			N	1	
13.5	10.1	A			N	1	
13.9	10.3	A			N	1	
13.5	12.9	A			N	1	
13.4	14.5	A			N	2	
13.6	14.5	A			K=0.4H	2	
13.7	15.0	A			N	1	
13.1	15.2	A			N	3	
14.0	16.0	A			N	1	
13.4	17.5	F	766		K=H	2	
13.8	17.6	K			K=H	2	
13.9	20.2	A			K=0.2H	3	
13.8	20.3	A			N	1	



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[[table]]

R.A. 1900 | Dec. | No. A.G.C | 1900 R.A. | 1900 Dec. | Magn | C.D.M. |
R.A. | Dec. | Magn

18 45.2	-30.2	25769	18 45.0	-30 14	8.2				
18 56.3	-30.1	26041	18 56.3	-30.1	3.1				
18 57.3	-29.9		-29 15649	18 55.6	-29 47.5	8.6	Z.C.		
19 4.1	-30.2	26232	19 4.1	-30 10	6.7				
18 28.0	-30.8	25342	18 27.8	-30 57	7.3				
18 32.5	-30.7	25431	18 32.4	-30 36	8				
18 35.0	-30.7	25495	18 34.6	-30 37	8				
18 36.1	-30.8		-30 16066	18 34.2	-30 44.6	9.0	ZC		
18 37.0	-30.6		-30 16089	18 34.9	-30 34.8				
30.0	-30.0	9.3	9.3						
18 42.0	-30.5	25681	18 41.8	-30 27					
18 44.6	-30.4		-30 16304	18 42.7	-30 22.7	8.3	OA		
18 49.0	-30.6		-30 16412	18 47.1	-30 38.4		NEB.		
19 1.5	-30.3		-30 16665	18 59.3	-30 58.5	8.2	O.A.		
18 27.6	-31.1	25342	18 27.8	-30 57	7.3	-30 15855	18 26.2	-30 58.5	7.2
									ZC
18 29.5	-31.0		-30 13897	18 28.0	-30 55.6	8.8	Z.C.		
18 32.1	-31.1		-30 15961	18 30.5	-30 58.6	9.0	Z.C.		
18 34.5	-31.1		-31 15824	18 32.7	-31 1.5	8.0	O.A.		
18 35.0	-31.3	25512	18 35.3	-31 16	8.8				
18 41.2	-31.1		-30 16207	18 39.3	-30 59.7	8.1	ZC		
18 44.5	-31.0	25751	18 44.5	-31 4	4				
			-30 16310	18 43.0	-30 56.6	8.1	ZC		
18 44.5	-31.2	25751	18 44.5	-31 4	7.5	-31 16050	18 42.9	-31 6.4	7.5
									ZC
18 45.7	-31.2	25772	18 45.1	-30 59	7.5				
18 46.1	-30.9	25790	18 45.8	-30 54	9				
18 48.2	-31.4		-31 16111	18 46.6	-31 16.8	8.3	ZC		
18 51.	-31.0	25922	18 51.7	-30 57	7.3				
									through]]1
18 51.9	-31.2	25930	18 51.9	-31 10	6.5				
19 58.0	-31.3		-31 16306	18 56.4	-31 13.4	5.9	OA		
19 58.2	-31.2	27466	19 58.0	-31.0	0	7.5			



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[[table]]

V	H	Cl.	No.	Rem	K line	Int.
13.9	22.0	E			K=H	1
13.3	22.2	A			N	1
14.1	7.3	A			N	1
14.4	9.1	A			N	1
14.4	9.2	A			K=H	1
14.6	10.6	H			K=H	1
15.0	11.2	F	767		K=H	1
14.2	14.9	E			K=H	1
15.0	16.8	I			K=H	2
14.9	20.0	A			N	1
14.7	21.9	A			N	1
15.8	10.1	A			N	1
15.4	12.6	G			K=H	2
15.1	12.9	F	768		K=H	2
15.4	13.4	A			N	2
15.6	15.6	H			N	2
15.1	15.9	A			N	1
15.8	16.3	A			N	1
15.3	17.4	H			N	1
16.0	17.5	H			K=H	2
15.2	19.9	A			N	1
15.3	20.9	A			N	2
16.3	6.1	F	769		K=H	1
16.9	6.6	A			N	1
16.2	6.5	A			N	1
17.0	8.2	A			N	1
17.0	9.1	F	770		K=H	2
16.6	9.6	A			N	1

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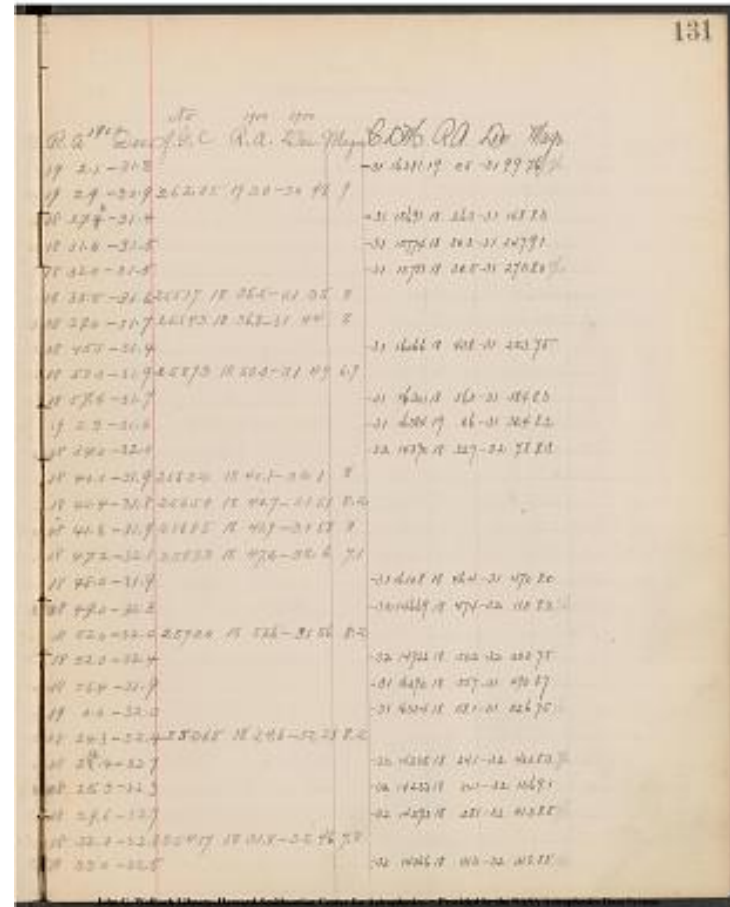
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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]

R.A. 1900 | 1900 Dec. | No. A.G.C | 1900 R.A. | 1900 Dec. | Magn |
C.D.M. | R.A. | Dec. | Magn |

19 2.1	-31.3			-31 16381	19 0.5	-31 9.9	7.6	zc
19 2.9	-30.9	26205		19 3.0	-30 48	9		
18 27.4	-31.4			-31 15691	18 26.3	-31 14.8	8.3	
18 31.6	-31.5			-31 15774	18 30.3	-31 24.7	9.1	
18 32.0	-31.5			-31 15781	18 30.5	-31 27.3	8.0	zc
18 35.5	-31.6	25517		18 35.5	-31 35	8		
18 37.0	-31.7	25543		18 36.8	-31 44	8		
18 45.1	-31.4			-31 16066	18 43.8	-31 25.3	7.5	
18 50.0	-31.9	25893		18 50.0	-31 49	6.9		
18 57.6	-31.7			-31 16301	18 56.0	-31 38.4	8.3	
19 2.3	-31.6			-31 16384	19 0.6	-31 30.4	8.2	
18 34.0	-32.0			-32 14395	18 32.7	-32 7.8	8.3	
18 40.0	-31.9	25632		18 40.1	-32 1	8		
18 40.4	-31.8	25650		18 40.7	-31 51	8.2		
18 41.6	-31.9	25685		18 41.9	-31 58	8		
18 47.2	-32.1	25833		18 47.2	-32 6	7.1		
18 48.0	-31.9			-31 16108	18 46.4	-31 47.0	8.0	
18 49.0	-32.3			-32 14669	18 47.4	-32 11.0	8.3	ZC
18 52.0	-32.0	25920		18 51.6	-31 56	8.2		
18 52.0	-32.4			-32 14722	18 50.2	-32 20.0	7.5	
18 56.4	-31.9			-31 16293	18 55.7	-31 49.0	8.7	
19 0.0	-32.0			-31 16334	18 58.1	-31 52.6	7.5	ZC
18 24.3	-32.4	25265		18 24.6	-32 21	8.2		
18 24.1	-32 40.3	8.3	ZC					
18 25.3	-32.3			-32 14233	18 24.1	-32 13.6	9.1	
18 29.6	-32.7			-32 14293	18 28.1	-32 41.3	8.5	ZC
18 32.0	-32.8	25417		18 31.8	-32 46	7.8		
18 33.0	-32.5			-32 14366	18 31.3	-32 31.5	8.5	ZC



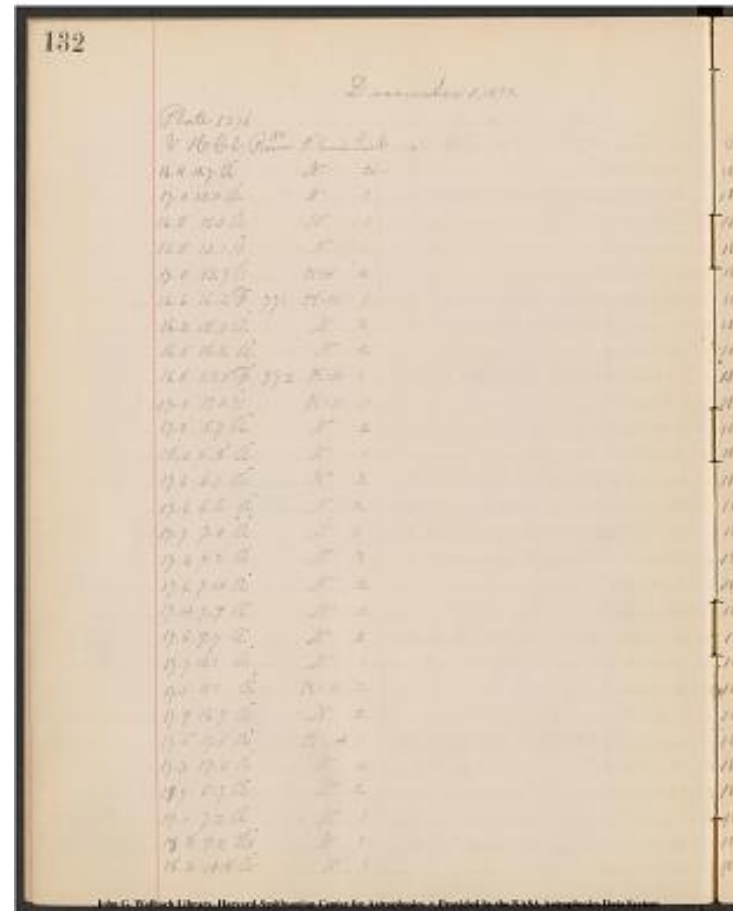
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[[table]]

V	H	Cl.	No.	Rem	K line	Int.
16.4	10.7	A		N	2	
17.0	13.0	A		N	1	
16.8	12.0	A		N	1	
16.8	13.1	H		N	1	
17.0	13.7	G		K=H	2	
16.6	16.2	F	771	K=H	1	
16.3	18.2	A		N	2	
16.5	18.2	A		N	2	
16.8	20.5	F	772	K=H	1	
17.0	19.0	H		K=H	1	
17.8	5.7	A		N	2	
18.0	5.8	A		N	1	
17.6	6.1	A		N	3	
17.6	6.6	A		N	2	
17.7	7.0	A		N	1	
17.6	7.3	A		N	3	
17.6	7.4	A		N	2	
17.4	7.9	A		N	2	
17.6	9.7	A		N	2	
17.7	10.1	A		N	1	
17.1	11.1	A		K=H	2	
17.9	16.9	A		N	2	
17.5	17.5	A		K=H	1	
17.3	19.5	A		N	2	
18.7	5.7	A		N	2	
19.0	7.2	A		N	1	
18.8	9.2	H		N	1	
18.3	10.5	A		N	1	



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]									
R.A. 1900 1900 Dec. No. A.G.C 1900 R.A. 1900 Dec. Magn									
C.D.M. R.A. Dec. Magn									
----- ----- ----- ----- ----- ----- ----- ----- ----- -----									
18 36.0	-32.5			-32 14416	18 34.0	-32 28.6	7.7	ZC	
18 40.7	-32.7			-32 14507	18 39.2	-32 46.4	9.0	ZC	
18 38.5	-32.6			-32 14461	18 36.9	-32 39.6	9.3		
18 41.0	-32.5			-32 14512	18 39.5	-32 40.7	7.7		
18 42.6	-32.7	25696		18 42.5	-32 49	7.0			
18 48.6	-32.5			-32 14661	18 47.1	-32 36.2	8.0	ZC	
18 53.7	-32.5			[[striketthrough]]25972[[/striketthrough]]					
[[striketthrough]]18									
54.0[[/striketthrough]] [[striketthrough]]-32 16[[/striketthrough]]									
[[striketthrough]]8.2[[/striketthrough]] -32 14756 18 52.0 -32 25.0 8.0									
ZC									
18 53.7	-32.6			-32 14755	18 51.9	-32 28.0	8.5	ZC	
18 53.9	-32.6			-32 14839	18 57.3	-32 34.9	8.3		
18 55.5	-32.8	26010		18 55.3	-32 44	8.2			
18 23.4	-33.2	25208		18 55.3	-32 44	8			
18 23.8	-33.2	25224		18 23.4	-33 7	7.9			
18 24.4	-33.1	25259		18 24.5	-33 3	5.8			
18 25.8	-33.1	25287		18 25.8	-33 0	7.5			
18 26.4	-33.2	25314		18 26.6	-33 3	8.8			
18 27.5	-33.1	25330		18 27.4	-33 5	5.6			
18 27.7	-33.1	25332		18 27.5	-33 2	7.5			
18 28.8	-33.0	25358		18 28.9	-32 58	7.2			
18 33.0	-33.1	25448		18 32.9	-33 5	7.8			
18 34.0	-33.1	25476		18 33.9	-33 6	9			
18 36.5	-32.9			-32 14424	18 34.9	-32 51.6	8.0	ZC	
18 50.0	-33.3	25884		18 49.7	-33 23	7.8			
18 51.6	-33.0	25929		18 51.9	-32 59	8.5			
18 56.1	-32.9	26046		18 56.5	-32 53	8.5			
18 23.7	-33.6	25222		18 23.4	-33 33	8			
18 27.2	-33.7	[[striketthrough]] 25420[[/striketthrough]]							
[[striketthrough]]18 31.9[[/striketthrough]] [[striketthrough]]-33									
34[[/striketthrough]] [[striketthrough]]8[[/striketthrough]]									
18 32.0	-33.5	25420		18 31.9	-33 34	8			
18 35.3	-33.4			-33 13471	18 33.3	-33 24.2	8.7		

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[preprinted]] 134 [[/preprinted]]

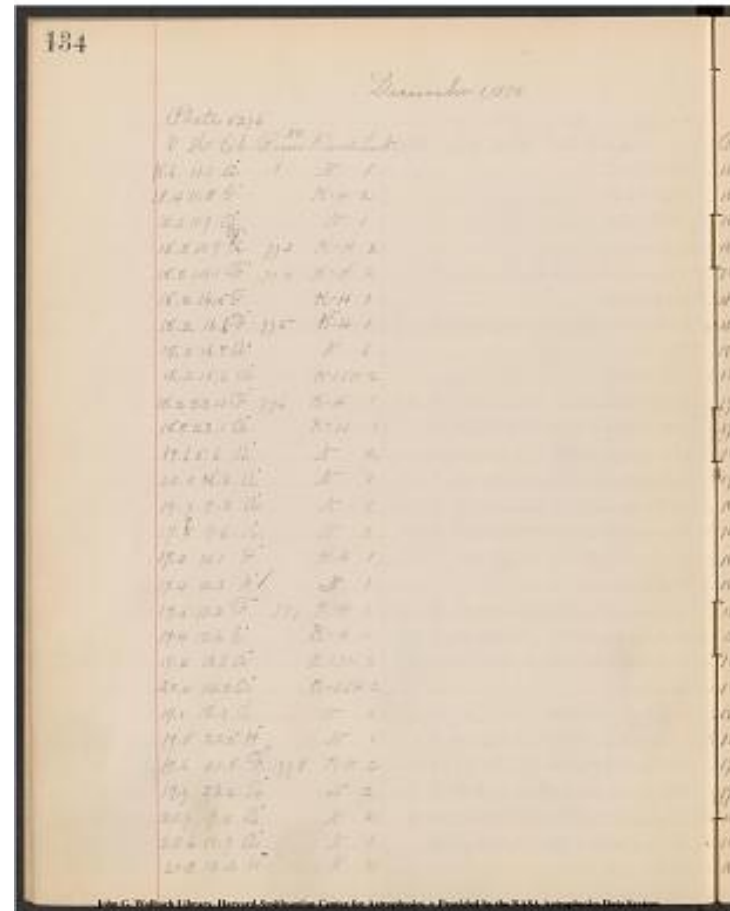
December 1, 1892

Plate 5276

[[table]]

V	H	Cl.	No.	Rem	K line	Int.
18.6	11.1	A	x	N	1	1
18.4	11.8	G		K=H	2	
18.2	11.9	A		N	1	1
18.8	13.9	A	F	773	K=H	1
18.8	14.1	F	774	K=H	1	1
18.2	16.5	G		K=H	1	1
18.2	16.6	F	775	K=H	1	1
18.3	16.9	A		N	3	1
18.2	18.6	A		K=0.5H	2	1
18.2	23.4	F	776	K=H	1	1
18.8	23.1	A		K=H	1	1
19.6	5.6	A		N	2	1
20.0	8.3	A	8.3	A		N
19.7	9.3	A		N	1	1
19.0	8	9	7.0	A		N
19.3	10.1	H		K=H	1	1
19.4	10.3	A		N	1	1
19.5	11.3	F	777	K=H	1	1
19.4	12.6	E		K=H	1	1
19.4	13.3	A		K=0.3H	2	1
20.0	14.0	A		K=0.5H	2	1
19.1	18.3	A		N	1	1
19.5	20.5	H		N	1	1
19.6	21.8	F	778	K=H	2	1
19.7	23.4	A		N	2	1
20.7	9.0	A		N	2	1
20.6	10.7	A		N	1	1
20.8	12.3	H		N	1	1

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]

R.A. 1900 | 1900 Dec. | No. A.G.C. | 1900 R.A. | 1900 Dec. | Magn |
C.D.M. | R.A. | Dec. | Magn |

18 36.6	-33.5		-33 13496	18 34.9	-33 37.2	8.7ZC
18 38.5	-33.4	25580	18 38.2	-33 29	8.5	
18 38.6	-33.4		-33 13527	18 36.8	-33 22.6	8.7ZC
18 43.3	-33.6	25714	18 43.1	-33 42	7	
18 43.9	-33.6	25728	18 43.5	-33 42	7.5	
18 49.0	-33.4	25879	18 49.4	-33 23	7.8	
18 49.4	-33.4	25884	18 49.7	-33 23	7.8	
18 50.0	-33.5	25896	18 50.0	-33 34	8.2	
18 54.2	-33.4	25987	18 54.4	-33 22	7.8	
19 5.8	-33.3		-33 14011	19 4.3	-33 15.5	8.0
18 23.2	-34.1	25206	18 23.1	-34 0	7.8	
19 29.2	-34.3		-34 12957	18 27.9	-34 12.6	8.7 ZC
18 32.0	-34.2		-34 12995	18 30.3	-34 6.0	9.0
18 32.0	-34.2		-34 12995	18 30.3	-34 6.0	9.0
18 32.5	-34.3	25441	18 32.7	-34 15	6.9	
18 34.0	-34.0	25449	18 34.0	-33 57	7.8	
18 34.3	-34.0	25490	18 34.5	-33 58	8.2	
18 36.9	-34.1	25549	18 37.0	-34 2	8.2	
18 40.0	-34.0	25627	18 40.0	-34 1	7.5	
18 41.4	-34.0	25674	18 41.7	-34 0	7.0	
18 43.5	-34.3	25738	18 44.2	-34 25	7.5	
18 53.3	-33.8		-33 13815	18 52.1	-33 47.0	8.3
18 59.0	-34.0	26108	18 59.0	-33 56	7.8	
19 2.0	-34.0	^[[26179]]	26180	19 2.1	-33 57	8.2
19 6.1	-34.1	^[[26283]]	26284	19 6.1	-34 1	^[[7.2]] 7.5
18 31.0	-34.4	25407	18 31.1	-34 38	8.2	
18 35.7	-34.6	25513	18 35.4	-34 34	8	
18 39.5	-34.7	25609	18 39.3	-34 41	8.2	

[[/table]]

Handwritten astronomical data table on aged paper, corresponding to the typed table on the left. The handwriting is in cursive and matches the entries in the typed table.

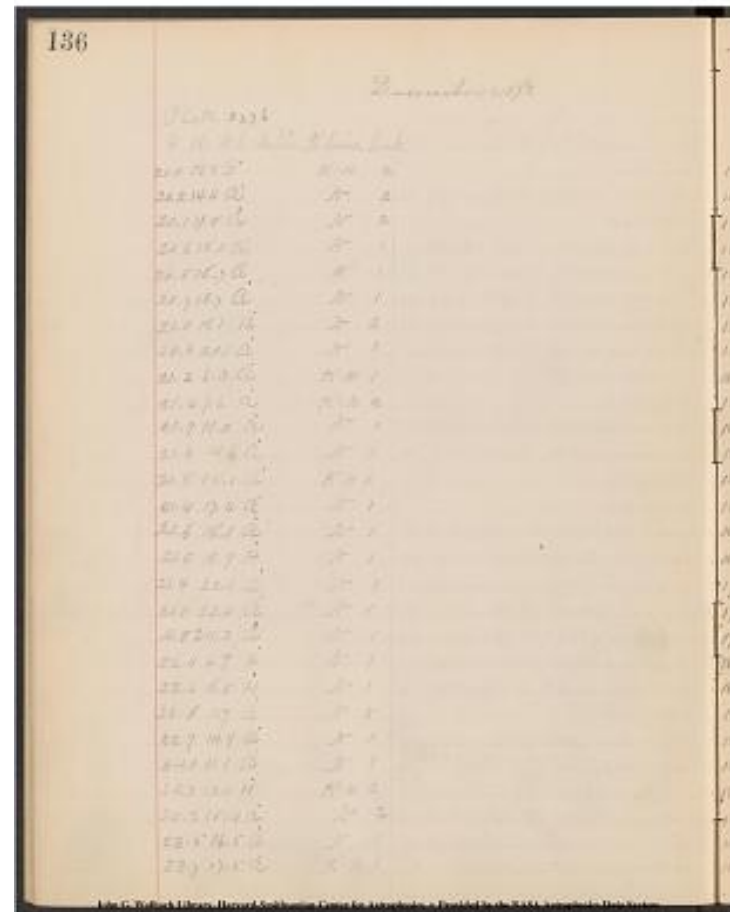
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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December 1, 1892

Plate 5276

[[table]]

V	H	Cl.	No.	Rem	K line	Int.
21.0	13.8	g			K = H	2
20.2	14.4	a			N	2
20.1	17.5	a			N	2
20.6	18.0	a			N	1
20.5	18.7	a			N	1
20.7	18.7	a			N	1
21.0	19.1	a			N	2
20.8	20.1	a			N	1
21.2	6.3	a			K = H	1
21.3	7.6	a			K = H	2
21.9	10.0	a			N	1
21.6	14.6	a			N	1
21.8	15.1	a			K = H	1
21.4	17.4	a			N	1
21.6	18.1	a			N	1
21.8	18.9	H			N	1
21.4	22.1	a			N	1
21.0	23.4	a			N	1
21.8	24.3	a			N	1
22.4	6.9	H			N	1
22.6	8.5	H			N	1
22.8	11.7	a			N	3
22.9	14.9	a			N	1
24.0	11.1	a			N	1
23.3	12.1	H			K = H	2
24.2	15.4	a			N	2
23.5	16.5	a			N	1
23.7	17.5	a			K = H	1



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
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[[table]]												
1900 No. A.G.C. 1900 R.A. 1900 Dec. Magn C.D.M. R.A. Dec.												
Magn.												
18 43.0 -34.9	25699	18 43.0	42.7	18 43.0	42.7	18 43.0	42.7	18 43.0	42.7	18 43.0	42.7	18 43.0
18 44.3 -34.4	25738	18 44.3	34.25	18 44.3	34.25	18 44.3	34.25	18 44.3	34.25	18 44.3	34.25	18 44.3
18 51.9 -34.3	25933	18 52.1	34.18	18 52.1	34.18	18 52.1	34.18	18 52.1	34.18	18 52.1	34.18	18 52.1
18 52.8 -34.6	25955	18 53.2	34.36	18 53.2	34.36	18 53.2	34.36	18 53.2	34.36	18 53.2	34.36	18 53.2
18 55.0 -34.5		18 53.2	34.32	18 53.2	34.32	18 53.2	34.32	18 53.2	34.32	18 53.2	34.32	18 53.2
18 55.0 -34.7	26007	18 55.4	34.57	18 55.4	34.57	18 55.4	34.57	18 55.4	34.57	18 55.4	34.57	18 55.4
18 56.0 -34.8	26028	18 56.0	34.46	18 56.0	34.46	18 56.0	34.46	18 56.0	34.46	18 56.0	34.46	18 56.0
18 58.1 -34.5	26090	18 58.3	34.30	18 58.3	34.30	18 58.3	34.30	18 58.3	34.30	18 58.3	34.30	18 58.3
18 24.0 -35.0		18 23.1	34.50	18 23.1	34.50	18 23.1	34.50	18 23.1	34.50	18 23.1	34.50	18 23.1
18 27.4 -35.0	25339	18 27.8	34.54	18 27.8	34.54	18 27.8	34.54	18 27.8	34.54	18 27.8	34.54	18 27.8
18 33.1 -35.3	25464	18 33.7	35.15	18 33.7	35.15	18 33.7	35.15	18 33.7	35.15	18 33.7	35.15	18 33.7
18 45.0 -35.0	25759	18 44.9	35.4	18 44.9	35.4	18 44.9	35.4	18 44.9	35.4	18 44.9	35.4	18 44.9
18 46.5 -35.1	25797	18 46.2	35.9	18 46.2	35.9	18 46.2	35.9	18 46.2	35.9	18 46.2	35.9	18 46.2
18 51.9 -35.0		18 50.2	34.59	18 50.2	34.59	18 50.2	34.59	18 50.2	34.59	18 50.2	34.59	18 50.2
18 52.2 -35.0	25960	18 53.6	35.3	18 53.6	35.3	18 53.6	35.3	18 53.6	35.3	18 53.6	35.3	18 53.6
18 55.7 -35.1	26014	18 55.5	35.9	18 55.5	35.9	18 55.5	35.9	18 55.5	35.9	18 55.5	35.9	18 55.5
19 3.4 -34.8	26194	19 2.8	34.39	19 2.8	34.39	19 2.8	34.39	19 2.8	34.39	19 2.8	34.39	19 2.8
19 6.8 -34.0	26293	19 6.5	34.53	19 6.5	34.53	19 6.5	34.53	19 6.5	34.53	19 6.5	34.53	19 6.5
19 9.1 -35.3		19 7.1	35.1	19 7.1	35.1	19 7.1	35.1	19 7.1	35.1	19 7.1	35.1	19 7.1
18 26.0 -35.6	25286	18 25.9	35.25	18 25.9	35.25	18 25.9	35.25	18 25.9	35.25	18 25.9	35.25	18 25.9
18 30.0 -35.6	25378	18 29.8	35.32	18 29.8	35.32	18 29.8	35.32	18 29.8	35.32	18 29.8	35.32	18 29.8
18 37.5 -35.8	25565	18 37.6	35.45	18 37.6	35.45	18 37.6	35.45	18 37.6	35.45	18 37.6	35.45	18 37.6
18 45.8 -35.8	25781	18 45.4	35.28	18 45.4	35.28	18 45.4	35.28	18 45.4	35.28	18 45.4	35.28	18 45.4
18 36.4 -36.5	25534	18 36.3	36.17	18 36.3	36.17	18 36.3	36.17	18 36.3	36.17	18 36.3	36.17	18 36.3
18 38.9 -35.9	25587	18 38.6	35.58	18 38.6	35.58	18 38.6	35.58	18 38.6	35.58	18 38.6	35.58	18 38.6
18 47.5 -36.5	25828	18 47.1	36.24	18 47.1	36.24	18 47.1	36.24	18 47.1	36.24	18 47.1	36.24	18 47.1
18 50.0 -36.1		18 48.0	36.18	18 48.0	36.18	18 48.0	36.18	18 48.0	36.18	18 48.0	36.18	18 48.0
18 52.5 -36.2	25936	18 52.2	36.6	18 52.2	36.6	18 52.2	36.6	18 52.2	36.6	18 52.2	36.6	18 52.2

137												
No. 1900 R.A. 1900 Dec. Magn. C.D.M. R.A. Dec. Magn.												
18 43.0 -34.9	25699	18 43.0	42.7	18 43.0	42.7	18 43.0	42.7	18 43.0	42.7	18 43.0	42.7	18 43.0
18 44.3 -34.4	25738	18 44.3	34.25	18 44.3	34.25	18 44.3	34.25	18 44.3	34.25	18 44.3	34.25	18 44.3
18 51.9 -34.3	25933	18 52.1	34.18	18 52.1	34.18	18 52.1	34.18	18 52.1	34.18	18 52.1	34.18	18 52.1
18 52.8 -34.6	25955	18 53.2	34.36	18 53.2	34.36	18 53.2	34.36	18 53.2	34.36	18 53.2	34.36	18 53.2
18 55.0 -34.5		18 53.2	34.32	18 53.2	34.32	18 53.2	34.32	18 53.2	34.32	18 53.2	34.32	18 53.2
18 55.0 -34.7	26007	18 55.4	34.57	18 55.4	34.57	18 55.4	34.57	18 55.4	34.57	18 55.4	34.57	18 55.4
18 56.0 -34.8	26028	18 56.0	34.46	18 56.0	34.46	18 56.0	34.46	18 56.0	34.46	18 56.0	34.46	18 56.0
18 58.1 -34.5	26090	18 58.3	34.30	18 58.3	34.30	18 58.3	34.30	18 58.3	34.30	18 58.3	34.30	18 58.3
18 24.0 -35.0		18 23.1	34.50	18 23.1	34.50	18 23.1	34.50	18 23.1	34.50	18 23.1	34.50	18 23.1
18 27.4 -35.0	25339	18 27.8	34.54	18 27.8	34.54	18 27.8	34.54	18 27.8	34.54	18 27.8	34.54	18 27.8
18 33.1 -35.3	25464	18 33.7	35.15	18 33.7	35.15	18 33.7	35.15	18 33.7	35.15	18 33.7	35.15	18 33.7
18 45.0 -35.0	25759	18 44.9	35.4	18 44.9	35.4	18 44.9	35.4	18 44.9	35.4	18 44.9	35.4	18 44.9
18 46.5 -35.1	25797	18 46.2	35.9	18 46.2	35.9	18 46.2	35.9	18 46.2	35.9	18 46.2	35.9	18 46.2
18 51.9 -35.0		18 50.2	34.59	18 50.2	34.59	18 50.2	34.59	18 50.2	34.59	18 50.2	34.59	18 50.2
18 52.2 -35.0	25960	18 53.6	35.3	18 53.6	35.3	18 53.6	35.3	18 53.6	35.3	18 53.6	35.3	18 53.6
18 55.7 -35.1	26014	18 55.5	35.9	18 55.5	35.9	18 55.5	35.9	18 55.5	35.9	18 55.5	35.9	18 55.5
19 3.4 -34.8	26194	19 2.8	34.39	19 2.8	34.39	19 2.8	34.39	19 2.8	34.39	19 2.8	34.39	19 2.8
19 6.8 -34.0	26293	19 6.5	34.53	19 6.5	34.53	19 6.5	34.53	19 6.5	34.53	19 6.5	34.53	19 6.5
19 9.1 -35.3		19 7.1	35.1	19 7.1	35.1	19 7.1	35.1	19 7.1	35.1	19 7.1	35.1	19 7.1
18 26.0 -35.6	25286	18 25.9	35.25	18 25.9	35.25	18 25.9	35.25	18 25.9	35.25	18 25.9	35.25	18 25.9
18 30.0 -35.6	25378	18 29.8	35.32	18 29.8	35.32	18 29.8	35.32	18 29.8	35.32	18 29.8	35.32	18 29.8
18 37.5 -35.8	25565	18 37.6	35.45	18 37.6	35.45	18 37.6	35.45	18 37.6	35.45	18 37.6	35.45	18 37.6
18 45.8 -35.8	25781	18 45.4	35.28	18 45.4	35.28	18 45.4	35.28	18 45.4	35.28	18 45.4	35.28	18 45.4
18 36.4 -36.5	25534	18 36.3	36.17	18 36.3	36.17	18 36.3	36.17	18 36.3	36.17	18 36.3	36.17	18 36.3
18 38.9 -35.9	25587	18 38.6	35.58	18 38.6	35.58	18 38.6	35.58	18 38.6	35.58	18 38.6	35.58	18 38.6
18 47.5 -36.5	25828	18 47.1	36.24	18 47.1	36.24	18 47.1	36.24	18 47.1	36.24	18 47.1	36.24	18 47.1
18 50.0 -36.1		18 48.0	36.18	18 48.0	36.18	18 48.0	36.18	18 48.0	36.18	18 48.0	36.18	18 48.0
18 52.5 -36.2	25936	18 52.2	36.6	18 52.2	36.6	18 52.2	36.6	18 52.2	36.6	18 52.2	36.6	18 52.2

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum Plates, Southern Draper Catalogue #61
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Plate 5276

[[table]]

V | H | Cl. | No. Rem | K line | Int. |

23.5	18.7	A	N	1
24.0	19.1	A	N	2
24.2	21.9	A	N	2

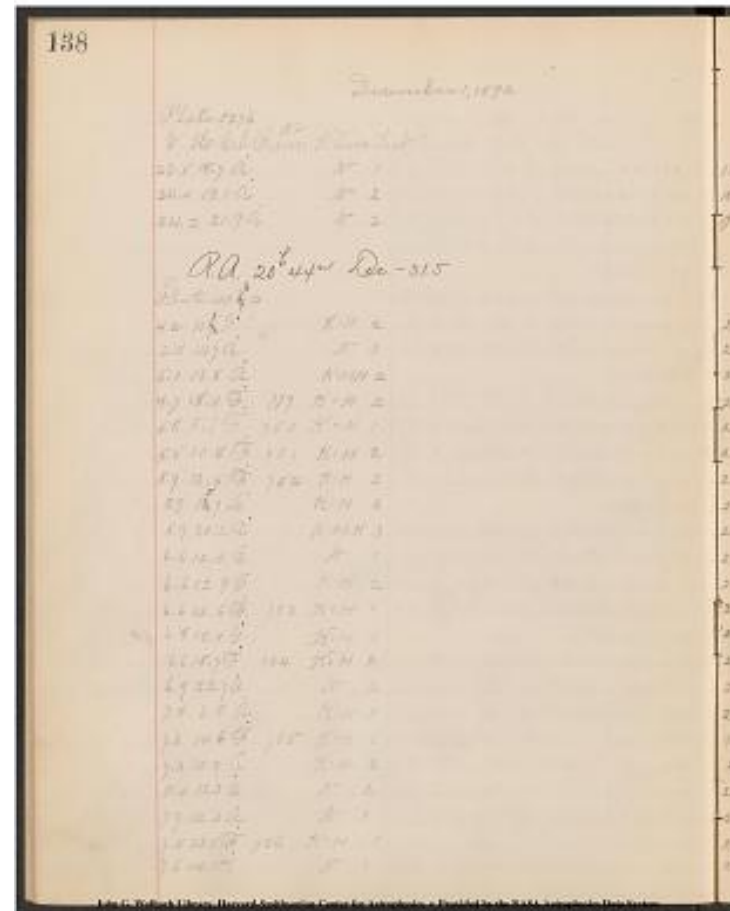
[[/table]]

R.A. 20^h 44^m 44^s Dec. -31.5Plate 40 ~~4~~ 32

[[table]]

4.2	11.	7	1	K=H 2
3.8	14.7	A	N	3
5.0	13.8	A	K=0.5H	2
4.7	18.0	F	779	K=H 2
5.8	8.7	F	780	K=H 1
5.5	10.8	F	781	K=H 2
5.9	13.5	F	782	K=H 2
5.9	1	6	5.7	K=H 3
5.9	20.2	A	K=0.2H	3
6.6	12.5	A	N	1
6.6	12.9	G	K=H	2
6.6	13.6	F	783	K=H 1
6.8	15.0	G	K=H	1
6.6	15.7	F	784	K=H 2
6.9	22.7	A	N	2
7.8	6.8	A	K=H	1
7.6	10.6	F	785	K=H 1
7.3	10.9	A	K=H	2
8.0	11.3	A	N	2
7.9	12.3	A	N	1
7.5	13.8	F	786	K=H 1
7.6	14.1	H	N	1

[[/table]]



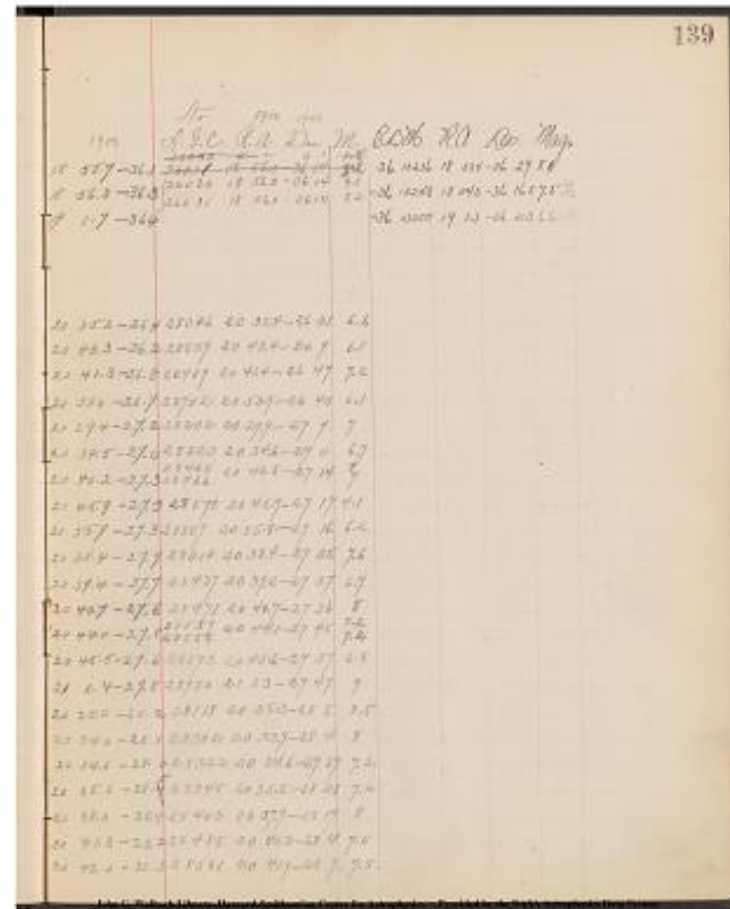
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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Extracted Nov-17-2023 02:05:05

[[10 column table]]

1900 | No. A.G.C. | 1900 R.A. | 1900 Dec. | Magn. | C.D.M. |
R.A. | Dec. | Magn. |

1900	No. A.G.C.	1900 R.A.	1900 Dec.	Magn.	C.D.M.
18 55.7	-36.1	26031	18 56.0	-36	
14 8.2	-36.1	13236	18 53.4	-36 2.9	8.0
18 56.3	-36.3	26031	18 56.0	-36 14	-36
14 8.2	-36.3	13248	18 54.3	-36 16.5	7.5 GC
19 1.7	-36.4	13355	19 1.3	-36 21.3	6.6 WA
20 35.2	-26.4	28346	20 35.4	-26 21	6.6
20 43.3	-26.2	28539	20 43.4	-26 9	6.1
20 41.3	-26.8	28489	20 44.4	-26 47	7.2
20 51.0	-26.7	28702	20 50.9	-26 40	6.1
20 29.4	-27.2	28202	20 29.9	-27 7	7
20 34.5	-27.0	28323	20 34.6	-27 0	6.7
20 40.2	-27.3	28466	20 40.5	-27 14	7
20 45.9	-27.3	28598	20 45.9	-27 17	4.1
20 55.9	-27.3	28807	20 55.8	-27 16	6.2
20 38.4	-27.7	28414	20 38.4	-27 35	7.6
20 39.4	-27.7	28437	20 39.2	-27 37	6.7
20 40.7	-27.6	28471	20 40.7	-27 36	8
20 44.0	-27.8	28558	20 44.1	-27 45	9.2
20 45.5	-27.6	28593	20 45.6	-27 37	6.8
21 1.4	-27.8	28950	21 1.3	-27 47	9
20 25.0	-28.2	28118	20 25.3	-28 5	8.5
20 34.0	-28.1	28302	20 33.9	-28 4	8
20 34.6	-28.0	28322	20 34.6	-27 57	7.2
20 35.6	-28.3	28348	20 35.5	-28 21	7.2
20 38.0	-28.4	28403	20 37.9	-28 17	8
20 41.3	-28.2	28485	20 41.3	-28 4	7.5
20 42.0	-28.3	28501	20 41.9	-28 7	7.5

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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
 Plates, Southern Draper Catalogue #61
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Plate 40 ~~4~~ 32

[[table]]

V | H | Cl. | No. Rem | K line | Int. |

8.0	15.7	A		K=0.3H	3
7.9	16.8	K		K=H	2
7.8	20.1	H		N	1
7.6	20.8	G		K=H	2
8.5	7.0	A		N	1
9.0	10.2	F	787	K=H	1
8.5	12.6	A		K=0.5H	2
9.4	7.4	A		N	2
9.2	11.0	I		K=H	2
9.6	11.4	F	788	K=H	2
9.2	23.4	G		K=H	1
10.4	6.7	A		K=0.3H	2
10.7	9.7	A		K=0.5H	2
10.4	10.8	F	789	K=H	1
10.9	12.1	G		K=H	2
10.8	15.7	F	790	K=H	2
10.3	20.7	A		N	2
10.5	21.2	F	791	K=H	1
11.6	6.6	F	792	K=H	1
11.5	15.7	I		N	2
11.9	19.7	A		K=0.2H	3
11.7	23.7	I		N	2

10.7 ? 13.0

1 8.5 A N 3

12.9 13.1 A K=H 2

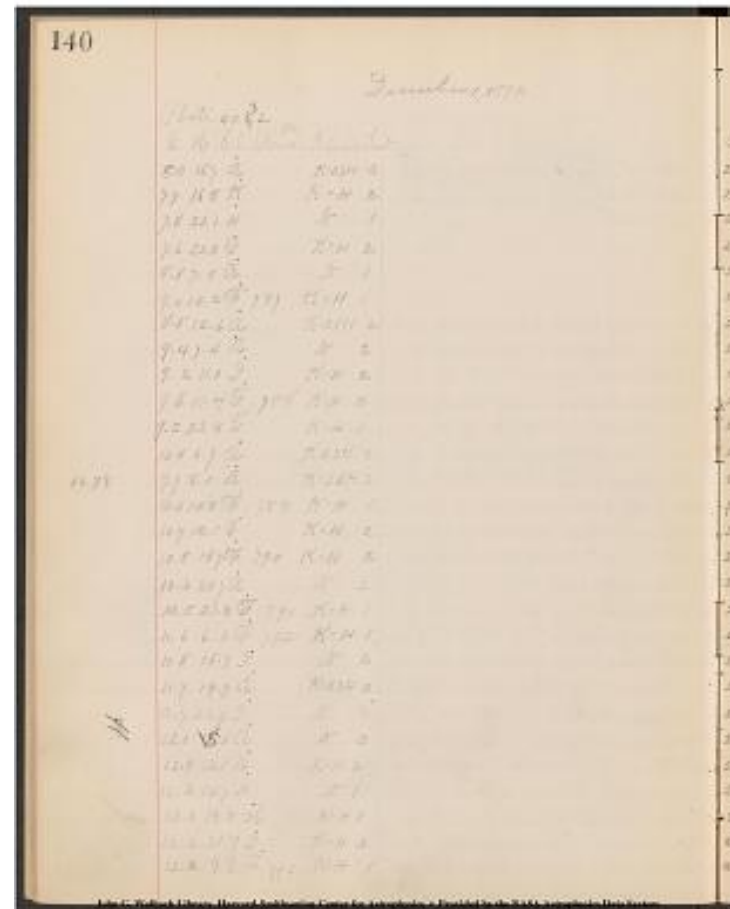
12.3 14.7 H N 1

13.0 19.0 G K=H 1

12.3 21.9 G K=H 3

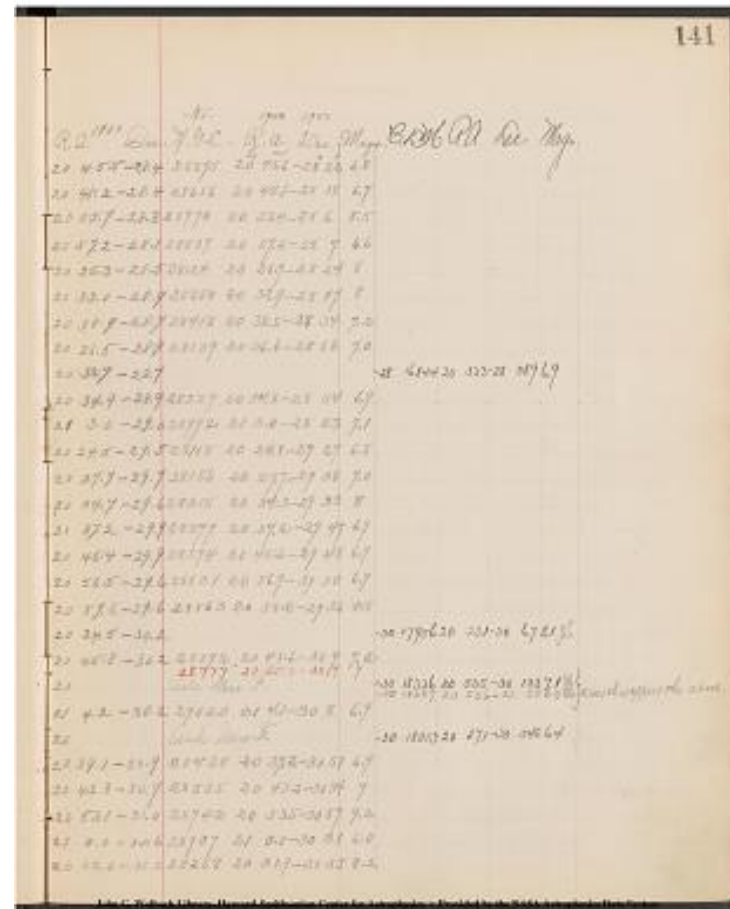
13.2 9.9 F 793 K=H 1

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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20 45.5	-28.4	28595	20 48.1	45.6^[h]	28°22'	6.8						
20 48.2	-28.4	28656	20 48.1	-28 18	6.7							
20 55.7	-28.3	28790	20 55.4	-28 6	8.5							
20 57.2	-28.1	28837	20 57.2	-28 7	6.6							
20 25.3	-28.5	28124	20 25.7	-28 24	8							
20 33.0	-28.9	28280	20 32.9	-28 47	8							
20 38.9	-28.7	28418	20 38.5	-28 34	7.2							
20 26.5	-28.9	28139	20 26.6	-28 56	7.0							
20 33.7	-28.7			-28 16	844		20 33.3	-28 58.9		6.9		
20 34.9	-28.9	28327	20 34.8	-28 54	6.9							
21 3.0	-29.0	28992	21 3.0	-28 53	7.1							
20 24.5	-29.5	28108	20 24.8	-29 27	6.5							
20 27.7	-29.7	28156	20 27.7	-29 38	7.0							
20 34.7	-29.6	28315	20 34.3	-29 33	8							
20 37.2	-29.9	28379	20 37.2	-29 47	6.9							
20 45.4	-29.9	28594	20 45.6	-29 48	6.9							
20 56.5	-29.6	28831	20 56.9	-29 30	6.9							
20 57.6	-29.6	28863	20 58.2	-29 32	8.8							
20 24.5	-30.2			-30 17	95620		23.1	-30	6.7	8.1 ZC		
20 45.8	-30.2	28592	20 45.6	-30 9	7.2							
20	Ask Mrs. F. ^[[28777]]		20 55.0	-30 7	7	-30 18337^[[[-30 18336]]		20 53.6^[[[20 53.5]]		-30 15.0^[[[-30 13.3]]		8.0 GC]^[[[7.1GC]]]
Does this affect the above.												
21 4.2	-30.2	29020	21 4.1	-30 8	6.9							
20	Ask Mrs. F.			-30 1801320	27.1	-30	54.5		6.4			
20 39.1	-30.9	28438	20 39.2	-30 51	6.9							
20 43.3	-30.7	28535	20 43.2	-30 34	7							
20 53.1	-31.0	28742	20 53.5	-30 57	9.2							
21 0.0	-30.6	28907	21 0.0	-30 31	6.0							
20 32.0	-31.0	28258	20 31.9	-30 55	8.2							



Smithsonian Institution Transcription Center, Harvard-Smithsonian Center for Astrophysics

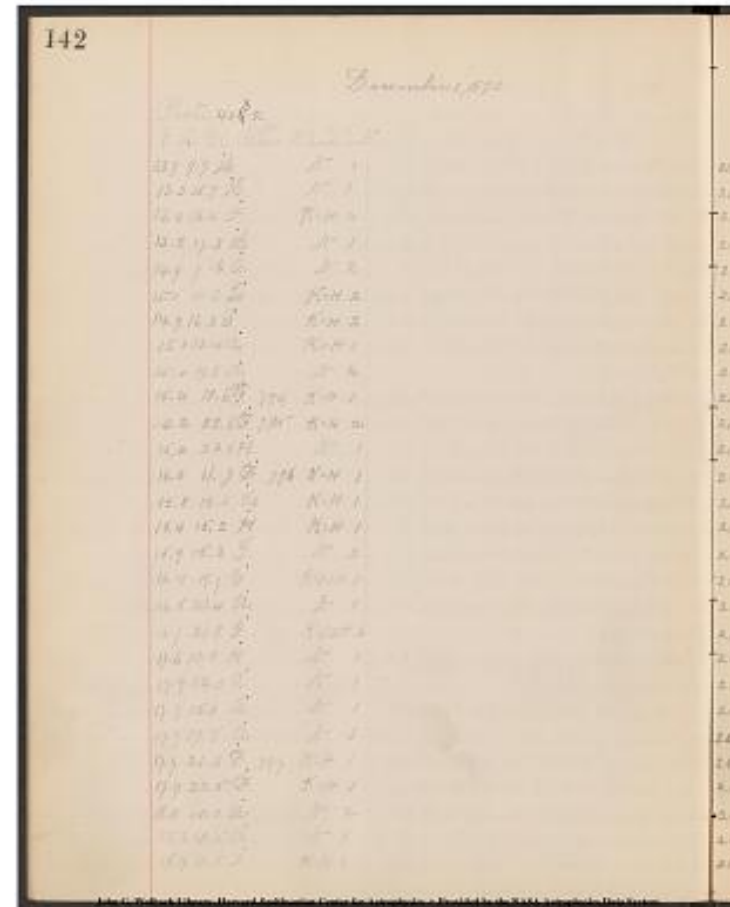
December 1, 1892

Plate 40 ~~4~~ 32

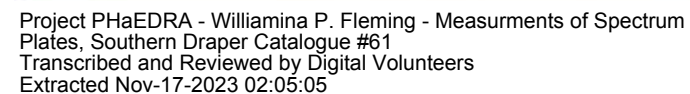
[[table]]

V	H	Cl.	No.	Rem	K line	Int.
13.9	9.9	H		N	1	
13.3	15.9	H		N	1	
13.4	16.4	I		K=H	2	
13.8	17.3	H		N	1	
14.9	7.6	A		N	2	
15.0	11.3	L		K=H	2	
14.9	16.3	G		K=H	2	
15.0	13.4	A		K=H	1	
15.0	17.5	A		N	2	
15.4	18.6	F	794	K=H	1	
14.2	22.6	F	795	K=H	2	
15.2	23.6	H		N	1	
16.0	11.7	F	796	K=H	1	
15.8	12.5	H		K=H	1	
15.4	15.2	H		K=H	1	
15.9	15.3	I		N	2	
16.4	19.7	G		K=1.2H	3	
16.8	21.4	A		N	1	
16.7	21.9	G		K=1.2H	2	
17.6	11.0	H		N	1	
17.9	14.0	A		N	1	
17.9	15.0	A		N	1	
17.7	19.8	A		N	3	
17.7	21.3	F	797	K=H	1	
17.9	23.5	F		K=H	1	
18.8	10.0	A		N	2	
18.3	10.5	A		N	1	
18.7	11.0	I		K=H	3	

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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Plate 40~~[[/del]] 4 ~~[[/del]] 32~~~~

[[table]]

V	H	Cl.	No.	Rem	K line	Int.
18.2	15.8	A			K=0.2H	3
19.3	10.3	H			N	1
19.8	8.7	A			N	1
19.4	15.0	I			K=1.2H	3
19.9	17.8	A			K=H	2
19.2	18.9	F	798		K=H	1
20.9	6.1	H			N	1
20.2	9.8	Ma			N	1
20.5	11.6	A			N	1
20.3	12.2	A			N	1
20.4	19.2	A			N	2
20.5	22.4	H			N	1
22.0	16.6	A			N	1
21.9	19.5	A			N	1
21.3	21.8	I			K=H	2
22.2	13.1	F	799		K=H	2
22.5	19.3	G			K=H	2
23.3	6.4	A			N	2
24.0	10.9	A			N	2
23.5	11.1	F	800		K=H	2
23.5	12.9	H			K=H	2
24.1	13.6	A			K=H	2
24.3	16.5	H			N	1
24.2	19.0	A			K=H	3
24.0	19.4	H			K=H	2

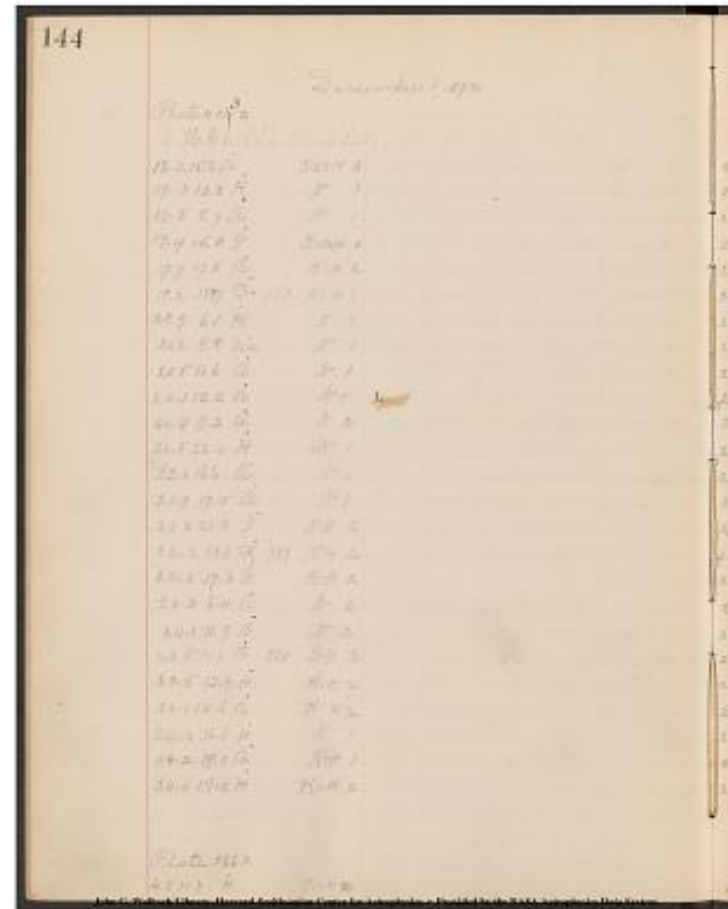
[[/table]]

Plate 5663

[[table]]

4.8	11.7	H			K=H	2
-----	------	---	--	--	-----	---

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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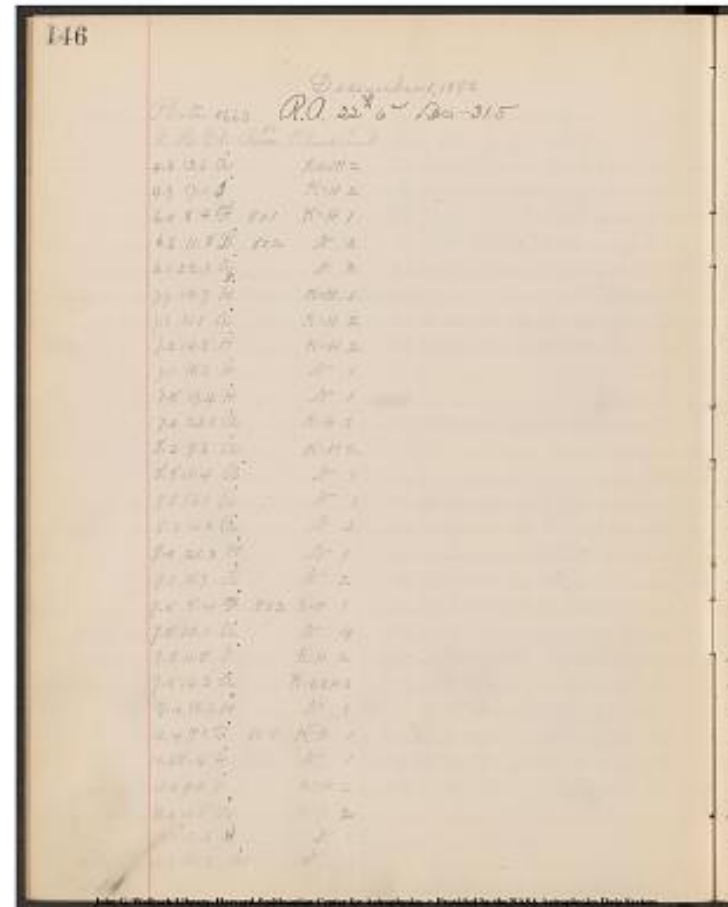
December 1, 1892

Plate 5663 R.A. 22^h 6^m 6^s Dec.-31.5

[[table]]

V	H	Cl.	No.	Rem	K line	Int.
4.6	13.6	A			K=0.5H	2
4.9	17.1	I			K=H	2
6.0	8.4	F	801		K=H	1
6.6	11.8	B	802	N	3	
6.1	22.1	A		N	2	
7.7	10.9	H		K=H	1	
7.1	17.1	A		K=H	2	
7.3	17.1	H		K=H	2	
7.1	15.3	H		N	1	
7.8	17.4	H		N	1	
7.4	23.0	A		K=H	3	
8.3	9.6	A		K=H	2	
8.8	10.4	A		N	1	
9.0	13.1	A		N	1	
8.4	16.0	A		N	3	
9.0	21.3	H		N	1	
9.1	5.7	A		N	2	
9.5	8.4	F	803	K=H	1	
9.8	10.1	A		N	4	
9.8	11.8	I		K=H	2	
9.5	14.2	A		K=0.4H	3	
9.4	18.2	H		N	1	
10.4	7.0	F	804	K=H	1	
10.6	8.4	H		N	1	
11.0	9.6	I		K=H	2	
11.0	12.5	A		K=H	2	
10.3	12.5	H		N	1	
10.7	16.2	A		N	1	

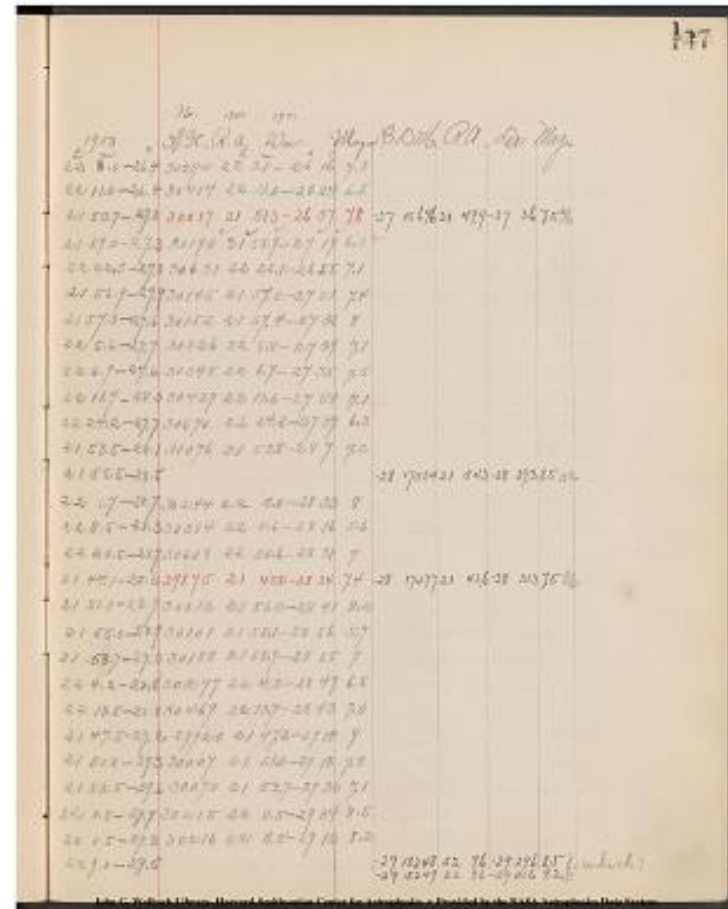
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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
Extracted Nov-17-2023 02:05:05

[[table]]
 R.A. 1900 | Dec. 1900 | No. A.G.C. | 1900 R.A. | 1900 Dec. | Magn |
 C.D.M. | R.A. | Dec. | Magn |

 22^h 3.0^m 30274 22^h 3.1^m -26° 16' 7.3" | | | |
 22 11.0 -26.4 30414 22 11.0 -26 24 6.5 | | | |
 21 50.7 -27.0 30017 21 51.3 -26 57 7.8 -27 15696 21 49.9 -27 3.6 7.5
 Z.C.
 21 59.0 -27.3 30190 21 58.9 -27 19 6.1 | | | |
 22 22.0 -27.0 30631 22 22.1 -26 55 7.1 | | | |
 21 56.9 -27.9 30145 21 57.0 -27 51 7.4 | | | |
 21 57.3 -27.6 30152 21 57.4 -27 32 8 | | | |
 22 5.6 -27.7 30326 22 5.8 -27 32 7.1 | | | |
 22 6.9 -27.6 30348 22 6.9 -27 35 7.5 | | | |
 22 11.7 -28.0 30429 22 11.6 -27 54 7.1 | | | |
 22 24.2 -27.7 30670 22 24.2 -27 37 6.3 | | | |
 21 53.5 -28.1 30076 21 53.8 -28 7 7.2 | | | |
 21 55.5 -28.5 | | | -28 17554 21 54.3 -28 29.3 8.5 oa |
 22 1.7 -28.7 30244 22 2.0 -28 33 8 | | | |
 22 8.5 -28.3 30384 22 8.6 -28 16 5.6 | | | |
 22 20.5 -28.7 30608 22 20.6 -28 31 7 | | | |
 21 44.1 -28.6 29875 21 45.0 -28 24 7.4 -28 17477 21 43.6 -28 31.3 7.5
 ZC
 21 51.0 -28.9 30012 21 51.2 -28 41 8.2 | | | |
 21 55.0 -28.9 30101 21 55.1 -28 56 5.7 | | | |
 21 58.7 -29.0 30188 21 58.9 -28 55 7 | | | |
 22 4.2 -28.8 30297 22 4.3 -28 47 6.5 | | | |
 22 13.5 -28.8 30469 22 13.7 -28 43 7.0 | | | |
 21 47.5 -29.2 29920 21 47.2 -29 14 9 | | | |
 21 50.8 -29.3 30007 21 51.0 -29 18 7.8 | | | |
 21 53.5 -29.6 30070 21 53.7 -29 32 7.1 | | | |
 22 0.5 -29.7 30215 22 0.5 -29 34 8.5 | | | |
 22 0.5 -29.3 30216 22 0.5 -29 12 8.2 | | | |
 22 9.0 -29.5 | | | -29 18249^h [-29 18248^m] 22 7.6^h [[22 7.6]] -29
 31.6^h [[-29 29.6]] 9.2^h [[8.5]] which?
 [[/table]]



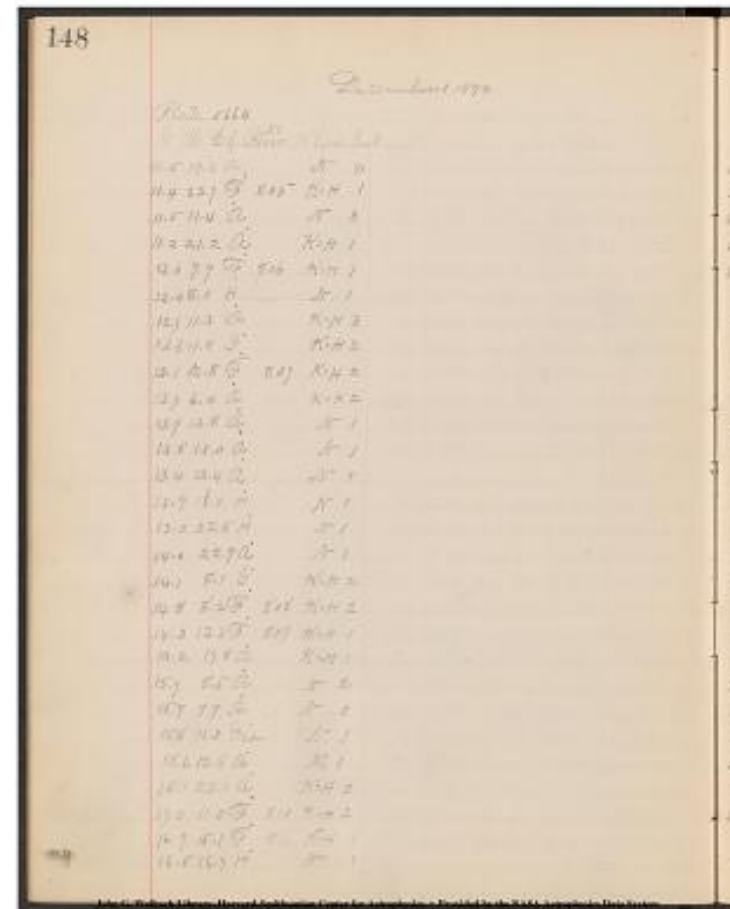
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
 Plates, Southern Draper Catalogue #61
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Plate 5663

[[table]]

V	H	Cl.	No.	Rem	K line	Int.
10.5	19.2	A		N	2	
10.4	22.7	F	805	K=H	1	
11.5	11.4	A		N	3	
11.2	21.2	A		K=H	1	
13.0	7.9	F	806	K=H	1	
12.4	8.0	H		N	1	
12.7	11.3	A		K=H	3	
12.6	11.8	I		K=H	2	
12.1	12.8	F	807	K=H	2	
13.7	6.4	A		K=H	2	
13.9	12.8	A		N	1	
13.8	13.0	A		N	1	
13.4	13.4	A		N	1	
13.9	1	[[strikethrough]]	3	[[/strikethrough]]	7.0	H N 1
13.0	22.5	H		N	1	
14.0	22.9	A		N	1	
14.1	8.1	G		K=H	2	
14.8	8.2	F	808	K=H	2	
14.3	12.3	F	809	K=H	2	
14.2	17.8	A		K=H	1	
15.7	8.5	A		N	2	
15.9	9.9	A		N	3	
15.8	11.3	Ma		N	1	
15.6	12.5	A		N	1	
15.1	23.1	A		K=H	2	
17.0	11.0	F	810	K=H	2	
16.9	15.1	F	811	K=H	1	
16.5	16.7	H		N	1	



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]

R.A. 1900 | Dec. 1900 | No.A.G.C. | 1900 R.A | 1900 Dec. | Magn. |
C.D.M | R.A. | Dec. | Magn. |

22^h 16.1^m 29.4^s 30510 22^h 16.0^m 29° 16' 8.5" | | |

22 23.9|-29.3|30661|22 23.8|-29 14|8.5| | | |
21 53.6|-29.9|30162|21 57.9|-29 50|7.3|-29 18148|21 56.4|-29 56.9|7.3
G.C|

22 20.3|-29.7|30605|22 20.5|-29 35|8| | | |
21 49.3|-30.5| | | | -30 18907|21 48.1|-30 37.7|8.3 Z.C.|
21 49.8|-30.2| | | | -30 18923|21 48.5|-30 17.5|8.3 ZC|

21 57.2|-30.4|30153|21 57.5|-30 23|7.2| | | |
21 58.5|-30.4|30178|21 58.6|-30 24|7.0| | | |

22 1.0|-30.2|30230|22 1.1|-30 7|8| | | |

21 45.6|-30.9|29902|21 46.2|-30 47|8.2| | | |

22 1.0|-31.0|30228|22 1.0|-31 1|8.5| | | |

22 1.6|-30.9| | | | -31 18652|22 0.2|-31 2.2|8.6 ZC|

22 2.4|-30.9| | | | -30 19022|22 1.0|-30 51.1|8.7|

22 10.5|-31.1|30415|22 11.0|-31 0|8| | | |

22 23.5|-30.7|30655|22 23.6|-30 30|7.5| | | |

22 24.9|-31.0|30674|22 24.6|-30 57|8.5| | | |

21 50.0|-31.1|29982|21 50.1|-31 5|6.7| | | |

21 50.1|-31.4|29984|21 50.2|-31 24|8.2| | | |

22 0.0|-31.3| | | | -31 18363|21 58.4|-31 18.8|7.8 Z.C.|

22 13.0|-31.3| | | | -31 18735|22 11.5|-31 17.8|7.8 Z.C.|

21 50.8|-32.0|29996|21 50.8|-31 52|8.2|-31 18549|21 49.3|-31 58.5|7.7
Z.C.|

21 54.0|-32.0|30082|21 54.1|-32 0|6.9| | | |

21 57.5|-32.0|30151|21 57.5|-31 56|7.5| | | |

22 0.4|-31.9|30219|22 0.8|-32 4|8.5| | | |

22 25.3|-31.6|30694|22 25.3|-31 32|7.8| | | |

21 56.9|-32.6|30137|21 56.8|-32 37|6.8| | | |

22 6.5|-32.7|30339|22 6.6|-32 34|8.2| | | |

22 10.4|-32.4|30403|22 10.1|-32 22|8.2| | | |

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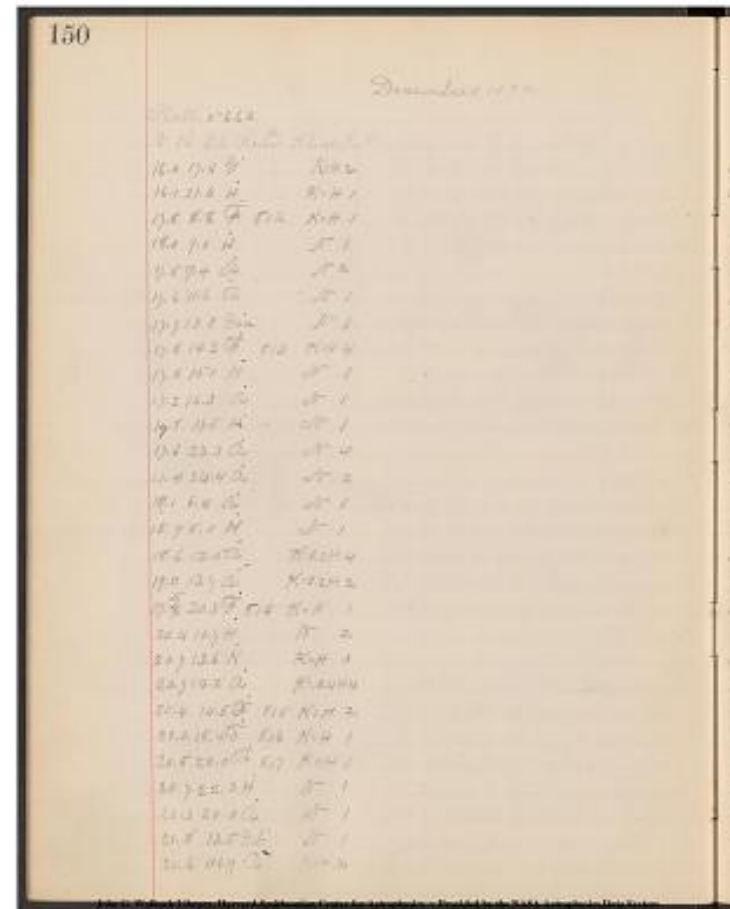
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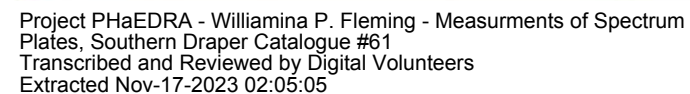
[[table]]

V | H | Cl. | No. Rem | K line | Int. |

16.3	17.4	G		K=H	2
16.1	21.6	H		K=H	1
17.8	8.8	F	812	K=H	1
18.0	9.0	H		N	1
17.5	9.4	A		N	2
17.6	11.6	A		N	1
17.7	13.8	Ma		N	1
17.8	14.3	F	813	K=H	4
17.8	15.1	H		N	1
17.2	16.3	A		N	1
17.8	17.5	H		N	1
17.6	23.3	A		N	4
17.4	24.4	A		N	2
18.1	6.4	A		N	1
18.9	8.0	H		N	1
18.6	13.5	A		K=0.2H	4
19.0	13.7	A		K=0.2H	2
19. [[strikethrough]]	9	[[strikethrough]]	5	20.3	F 814 K=H 1
20.4	10.7	H		N	2
20.7	13.6	K		K=H	3
20.7	14.2	A		K=0.4H	4
20.4	14.5	F	815	K=H	2
20.2	18.4	F	816	K=H	1
20.5	22.0	F	817	K=H	1
20.7	22.3	H		N	1
20.3	20.0	A		N	1
21.8	13.5	Mb		N	1
21.6	14.9	A		K=H	2



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Plate 5663

[[table]]

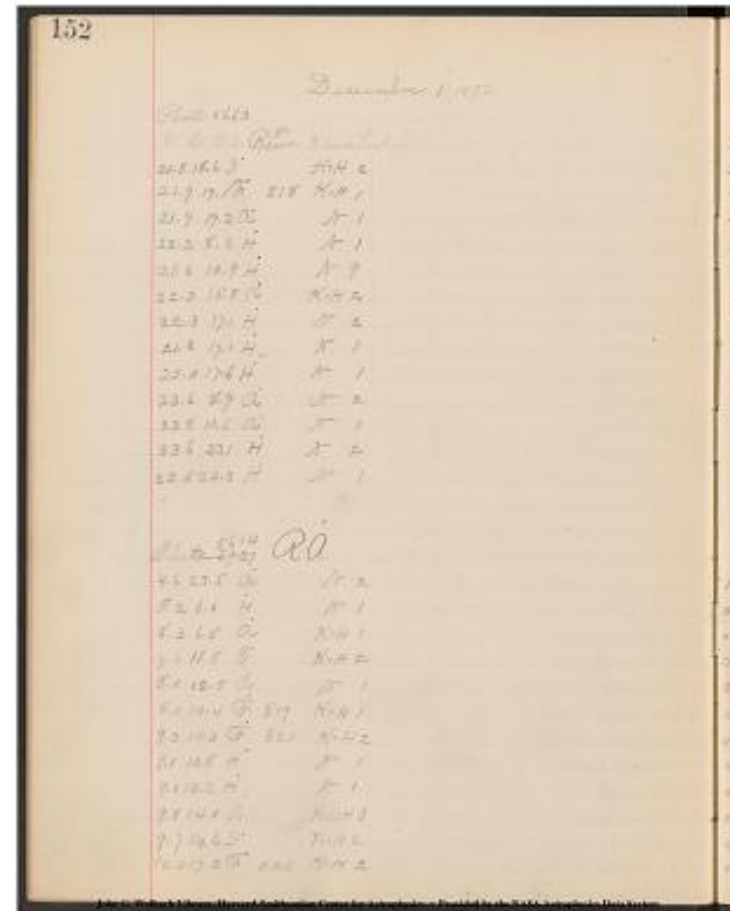
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21.8	18.6	I			K=H	2
21.9	19.1	F	818		K=H	1
21.9	19.2	A		N	1	
22.2	8.2	H		N	1	
21.6	10.9	H		N	9	
22.3	15.8	A		K=H	2	
22.3	17.1	H		N	2	
21.3	17.1	H		N	1	
22.0	17.6	H		N	1	
23.6	8.9	A		N	2	
23.8	10.5	A		N	1	
23.6	23.1	H		N	2	
22.5	24.3	H		N	1	

Plate ~~3721~~ 5614 R.A.

[[table]]

V	H	Cl.	No.	Rem	K line	Int.
4.6	23.5	A		N	2	
8.2	6.0	H		N	1	
8.3	6.5	A		K=H	1	
7.6	11.8	G		K=H	2	
8.0	12.8	A		N	1	
8.0	14.4	F	819	K=H	1	
9.3	10.3	F	820	K=H	2	
9.1	10.8	H		N	1	
9.0	14.2	H		N	1	
9.8	14.0	A		K=0.2H	3	
9.7	14.6	I		K=H	2	
10.0	17.3	F	821	K=H	2	

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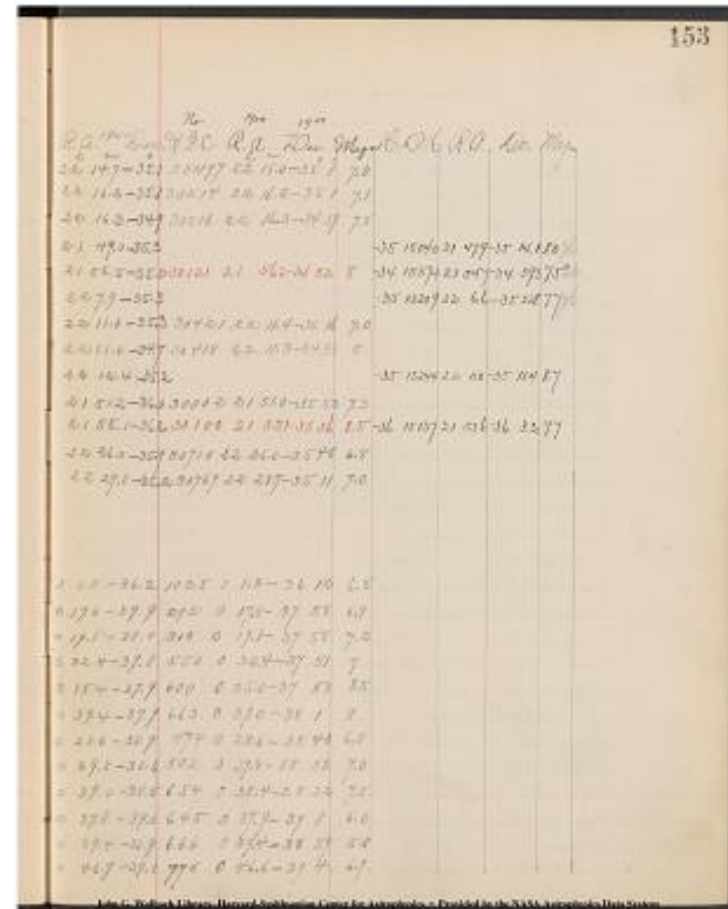


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]

R.A. 1900 | Dec. 1900 | No. A.G.C | 1900 R.A. | 1900 Dec. | Magn |
C.D.M. | R.A. | Dec. | Magn |

22 14.9	14.9	35.1	30497	22 15.0	-35° 1'	7.0				
22 16.2	-35.1	30514	22 16.2	-35 1	7.1					
22 16.3	-34.9	30516	22 16.3	-34 59	7.5					
21 49.0	-35.3			-35 15040	21 47.9	-35 14.1	8.0	ZC		
21 56.5	-35.0	30121	21 56.2	-34 52	8	-34 15374	21 54.7	-34 59.3	7.5	ZC
22 7.9	-35.3			-35 15209	22 6.6	-35 22.8	7.7	ZC		
22 11.0	-35.3	30421	22 11.4	-35 16	7.0					
22 11.0	-34.7	30418	22 11.3	-34 43	8					
22 12.4	-35.2			-35 15244	22 11.0	-35 11.4	8.7			
21 51.2	-36.0	30002	21 51.0	-35 50	7.3					
21 55.1	-36.2	30100	21 55.1	-35 56	8.5	-36 15137	21 53.6	-36 3.2	7.7	
22 26.0	-35.9	30710	22 26.0	-35 48	6.8					
22 29.0	-35.2	30769	22 28.7	-35 11	7.0					
1 1.8	-36.2	10251	1 1.8	-36 12	6.5					
0 17.6	-37.9	2920	0 17.8	-37 58	6.9					
0 19.1	-38.0	3100	0 19.1	-37 58	7.2					
0 32.4	-37.8	5500	0 32.4	-37 51	7					
0 35.4	-37.9	6000	0 35.0	-37 58	8.5					
0 39.4	-37.9	6630	0 39.0	-38 18						
0 28.6	-38.7	4740	0 28.6	-38 40	6.8					
0 29.8	-38.6	5020	0 29.8	-38 33	7.0					
0 39.0	-38.5	6540	0 38.4	-38 32	7.5					
0 37.8	-39.0	6450	0 37.9	-39 1	6.0					
0 39.4	-38.9	6660	0 39.4	-38 59	5.8					
0 46.7	-39.1	7750	0 46.6	-39 4	6.9					



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Plate ~~3721~~ ~~5614~~

V	H	Cl.	No.	Rem	K line	Int.
9.5	21.4	G			K=H	2
10.5	10.5	F	822		K=H	1
10.9	13.0	A			N	1
10.8	21.2	I			K=H	3
11.8	5.6	F	823		K=H	2
11.8	6.3	A			K=H	3
11.7	7.3	I			K=H	2
12.0	9.3	I			K=H	2
11.6	10.6	A			N	1
12.0	22.5	F	824		K=H	1
12.5	7.7	H			K=H	2
12.9	8.6	I			K=H	3
12.5	10.3	H			N	1
12.8	10.6	A			K=0.2H	2
12.5	11.3	A			N	1
12.8	23.2	H			N	2
14.0	22.2	F	825		K=H	1
13.6	22.7	F	826		K=H	2
14.4	9.0	H			K=H	2
14.9	9.5	A			K=H	3
14.0	13.4	A			N	1
^[[21.9]] ? 21.9? 15.0 2 2						
[[1.8]] H N 1 						
14.3	22.1	A			N	2
16.0	23.5	A			N	3
16.9	7.5	F	827		K=H	1
16.1	12.4	A			K=H	2
16.5	23.4	F	828		K=H	2
17.5	8.6	G			K=H	5

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December 1, 1892

Plate ~~3721~~ ~~5614~~

V | H | Cl. | No. | Rem | K line | Int. |

9.5 | 21.4 | G | | | K=H | 2 |

10.5 | 10.5 | F | 822 | | K=H | 1 |

10.9 | 13.0 | A | | | N | 1 |

10.8 | 21.2 | I | | | K=H | 3 |

11.8 | 5.6 | F | 823 | | K=H | 2 |

11.8 | 6.3 | A | | | K=H | 3 |

11.7 | 7.3 | I | | | K=H | 2 |

12.0 | 9.3 | I | | | K=H | 2 |

11.6 | 10.6 | A | | | N | 1 |

12.0 | 22.5 | F | 824 | | K=H | 1 |

12.5 | 7.7 | H | | | K=H | 2 |

12.9 | 8.6 | I | | | K=H | 3 |

12.5 | 10.3 | H | | | N | 1 |

12.8 | 10.6 | A | | | K=0.2H | 2 |

12.5 | 11.3 | A | | | N | 1 |

12.8 | 23.2 | H | | | N | 2 |

14.0 | 22.2 | F | 825 | | K=H | 1 |

13.6 | 22.7 | F | 826 | | K=H | 2 |

14.4 | 9.0 | H | | | K=H | 2 |

14.9 | 9.5 | A | | | K=H | 3 |

14.0 | 13.4 | A | | | N | 1 |

~~^[[~~21.9~~]] ? 21.9? ~~15.0~~ | 2 ~~2~~~~

~~[[~~1.8~~]] H | N | 1 |~~

14.3 | 22.1 | A | | | N | 2 |

16.0 | 23.5 | A | | | N | 3 |

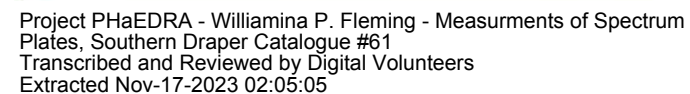
16.9 | 7.5 | F | 827 | | K=H | 1 |

16.1 | 12.4 | A | | | K=H | 2 |

16.5 | 23.4 | F | 828 | | K=H | 2 |

17.5 | 8.6 | G | | | K=H | 5 |

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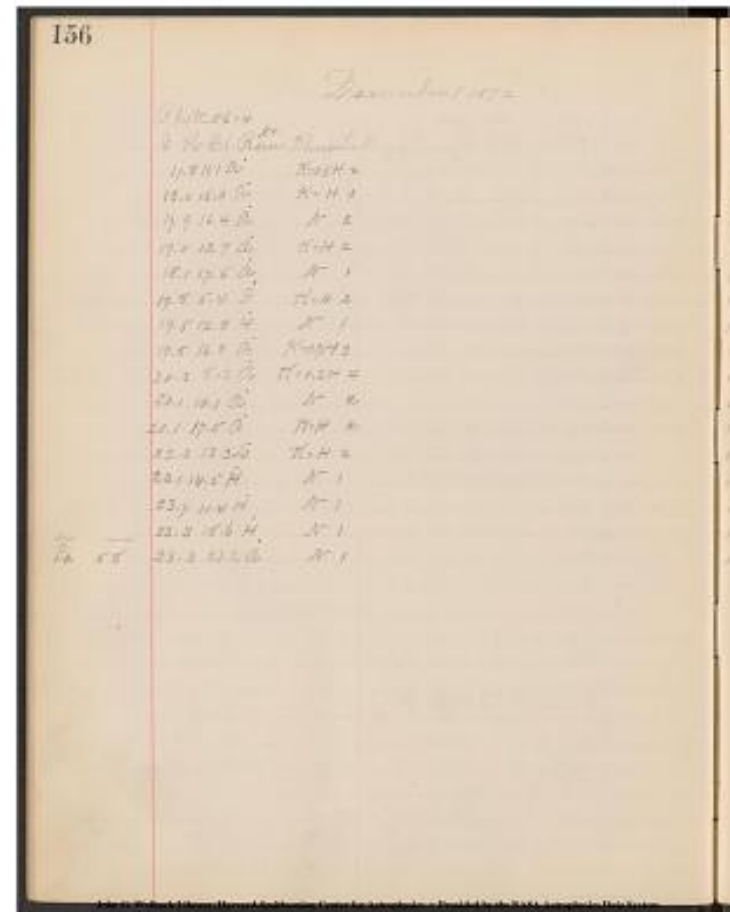
Plate 5614

[[table]]

V | H | Cl. | No. Rem | K line | Int. |

17.8	11.1	A		K=0.5H	2
18.0	15.0	A		K=H	3
17.9	16.4	A		N	2
19.0	13.9	A		K=H	2
18.1	17.5	A		N	1
19.8	5.4			K=H	2
19.5	12.8	H		N	1
19.5	16.8	A		K=0.7H	3
20.3	8.2	A		K=0.2H	4
20.1	10.1	A		N	2
20.1	17.5	A		K=H	2
22.3	13.3	L		K=H	2
23.1	14.5	H		N	1
23.7	11.4	H		N	1
23.3	18.6	H		N	1
23.3	21.2	A		N	1

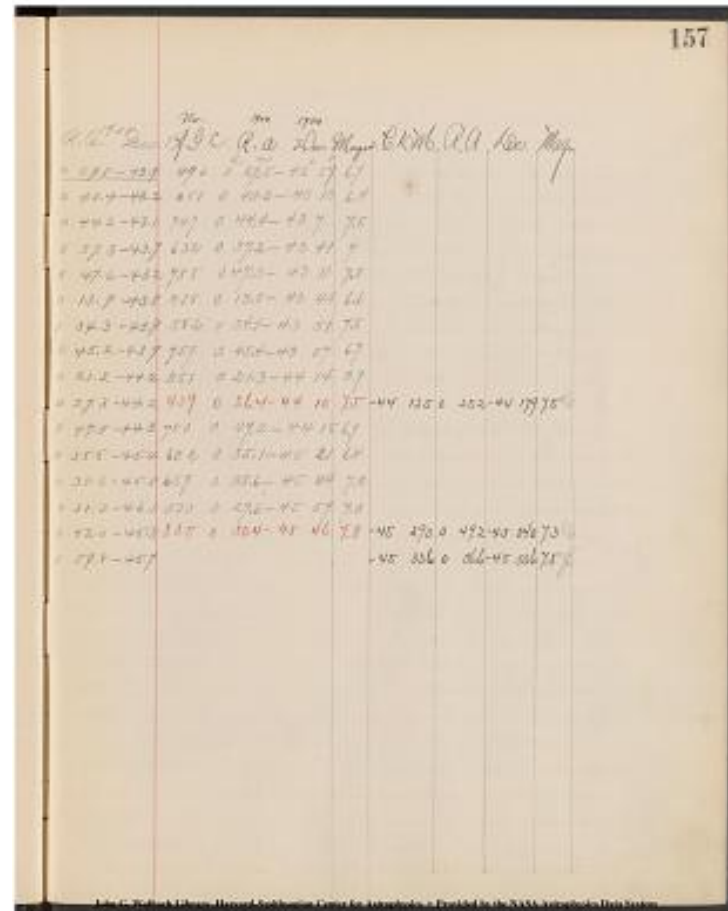
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[[annotation]]~~12~~ 0^h58^m[[/annotation]]

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[[preprinted]]157[[/preprinted]]
[[table]]
R.A. 1900 | Dec. 1900 | No. A.G.C | 1900 R.A. | 1900 Dec. | Magn |
C.D.M. | R.A. | Dec. | Magn |

[[underlined]]0 29.8[[/underlined]]-42.9|496|0^[[h]] 29.5^[[m]]-
42[[symbol-degree symbol]] 59'6.9| | | | |
0 40.4-43.2|681|0 40.2-43 13|6.4| | | | |
0 44.2-43.1|747|0 44.4-43 7|7.5| | | | |
0 37.3-43.7|632|0 37.2-43 41|7| | | | |
0 47.6-43.2|785|0 47.3-43 11|7.8| | | | |
0 13.9-43.8|218|0 13.8-43 48|6.6| | | | |
0 34.3-43.9|582|0 34.1-43 51|7.8| | | | |
0 45.2-43.9|759|0 45.4-43 57|6.7| | | | |
0 21.1-44.2|351|0 21.3-44 14|3.9| | | | |
0 27.3-44.2|439|0 26.4-44 10|7.5|-44 125|0 25.2|-44 17.9|7.5 ZC|
0 47.5-44.3|780|0 47.2-44 15|6.9| | | | |
0 35.5-45.4|602|0 35.1-45 21|6.4| | | | |
0 38.6-45.8|659|0 38.6-45 44|7.0| | | | |
0 30.0-46.1|500|0 29.6-45 59|7.0| | | | |
0 52.0-45.8|835|0 50.4-45 46|7.8|-45 290|0 49.2|-45 54.0|7.3 ZC|
0 59.8|-45.7| | | | -45 336|0 56.6|-45 50.6|7.5 ZC|
[[/table]]

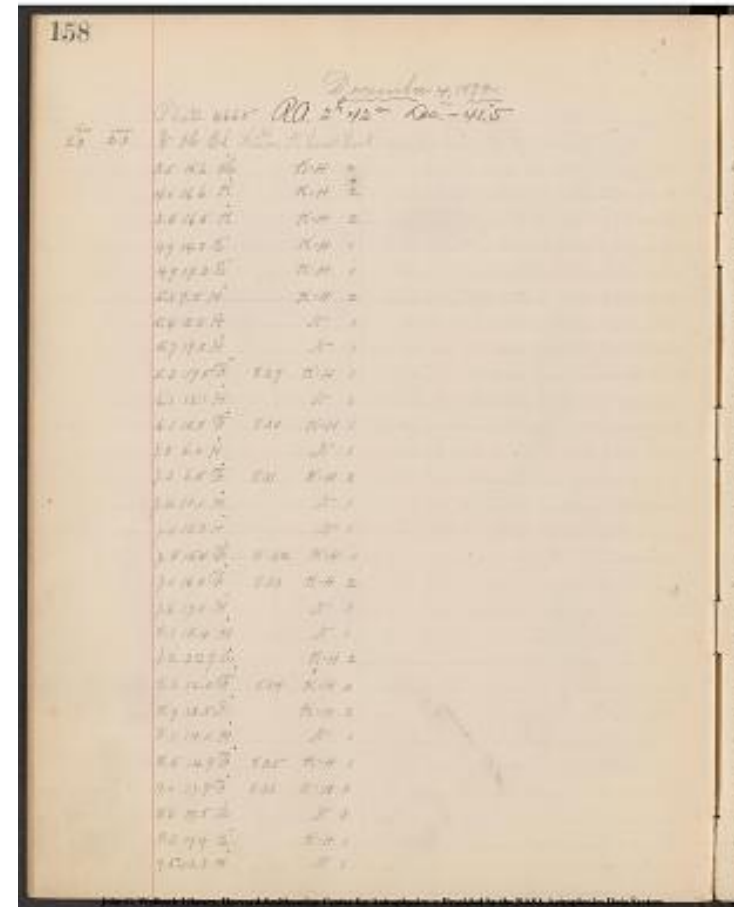


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 Plate 4665 R.A 2^h 42^m Dec. $-41^\circ.5$
 23^s 23^s

[[table]]				
V	H	Cl	Rem. No.	K line
3.5	15.6	H		K=H 2
4.0	16.6	K		K=H 2
3.8	16.8	K		K=H 2
4.9	14.3	E		K=H 1
4.9	19.3	E		K=H 1
5.3	9.5	H		K=H 2
5.4	12.8	H		N 1
5.7	19.3	H		N 1
5.3	19.5	F	829	K=H 1
6.1	15.1	H		N 1
6.1	15.8	F	830	K=H 1
7.8	6.0	H		N 1
7.3	6.5	F	831	K=H 2
7.2	10.1	H		N 1
7.0	15.3	H		N 1
7.8	15.4	F	832	K=H 1
7.0	16.0	F	833	K=H 2
7.6	17.0	H		N 1
8.0	18.4	H		N 1
7.2	22.9	A		K=H 2
8.3	12.0	F	834	K=H 3
8.9	13.5	I		K=H 3
8.1	14.0	H		N 1
8.5	14.9	F	835	K=H 1
9.0	17.9	F	836	K=H 3
8.6	19.5	A		N 3
8.3	19.9	E		K=H 1
9.5	13.3	H		N 1



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[[table]]									
1900 No. A.G.C 1900 R.A. 1900 Dec. Magn C.D.M. R.A. Dec. Magn									
2^[[h]] 43.5^[[m]] -35.9° 2989 2^[[h]] 43.5^[[m]] -35° 58' 6.7									
2 46.4 -36.4	3030	2 46.2 -36 16	6.1						
2 46.5 -36.1	3039	2 46.6 -36 5	5.4						
2 40.3 -36.7	2921	2 40.1 -36 44	6.8						
2 52.6 -36.7	3187	2 52.9 -36 42	7.2		-36 1107	2 51.9 -36 48.3			
7.7 G.C									
2 28.2 -36.9	2662	2 28.1 -36 52	6.4						
2 36.5 -37.0	2846	2 36.4 -36 56	8.2						
2 52.7 -37.1	3183	2 52.8 -37 6	7.5						
2 53.3 -36.9	3195	2 53.2 -36 50	7.4						
2 42.0 -37.4	2967	2 42.4 -37 20	8.5						
2 44.0 -37.4		-37 1050	2 43.1 -37 30.3		7.7				
2 18.7 -38.1	2463	2 19.0 -38 2	6.6						
2 20.2 -37.9	2489	2 20.3 -37 49	6.6			2 29.4 -37.9	2697		
2 29.5 -37 50	7.8				2 42.6 -37.8	2978	2 43.0 -37 46	8	
2 42.9 -38.2		-38 917	2 42.1 -38 15.5		8.5ZC				
2 44.4 -37.9	3005^[[3004]]	2 44.6 -37 50^[[49]]	8.5^[[7]]						
2 47.0 -38.2		-38 937	2 46.3 -38 13.5		8.0ZC				
2 50.6 -38.3	3129	2 50.7 -38 15	8.2						
3 2.1 -37.9	3359	3 3.0 -37 43	7.5						
2 34.3 -38.4	2806	2 34.4 -38 25	6.4						
2 38.0 -38.9	2872	2 38.1 -38 49	6.1						
2 39.5 -38.5	2902	2 39.4 -38 22	8						
2 41.6 -38.7	2950	2 41.7 -38 36	7.8						
2 49.5 -38.9	3103	2 49.7 -38 51	6.0						
2 53.5 -38.6	3209	2 53.7 -38 36	6.2						
2 54.5 -38.4	3226	2 54.7 -38 24	7.3						
2 37.4 -39.1	2865	2 37.6 -39 2	7.8						

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No. 1900									
2 43.5 -35.9	2989	2 43.5 -35 58	6.7						
2 46.4 -36.4	3030	2 46.2 -36 16	6.1						
2 46.5 -36.1	3039	2 46.6 -36 5	5.4						
2 40.3 -36.7	2921	2 40.1 -36 44	6.8						
2 52.6 -36.7	3187	2 52.9 -36 42	7.2		-36 1107	2 51.9 -36 48.3			
7.7 G.C									
2 28.2 -36.9	2662	2 28.1 -36 52	6.4						
2 36.5 -37.0	2846	2 36.4 -36 56	8.2						
2 52.7 -37.1	3183	2 52.8 -37 6	7.5						
2 53.3 -36.9	3195	2 53.2 -36 50	7.4						
2 42.0 -37.4	2967	2 42.4 -37 20	8.5						
2 44.0 -37.4		-37 1050	2 43.1 -37 30.3		7.7				
2 18.7 -38.1	2463	2 19.0 -38 2	6.6						
2 20.2 -37.9	2489	2 20.3 -37 49	6.6			2 29.4 -37.9	2697		
2 29.5 -37 50	7.8				2 42.6 -37.8	2978	2 43.0 -37 46	8	
2 42.9 -38.2		-38 917	2 42.1 -38 15.5		8.5ZC				
2 44.4 -37.9	3005^[[3004]]	2 44.6 -37 50^[[49]]	8.5^[[7]]						
2 47.0 -38.2		-38 937	2 46.3 -38 13.5		8.0ZC				
2 50.6 -38.3	3129	2 50.7 -38 15	8.2						
3 2.1 -37.9	3359	3 3.0 -37 43	7.5						
2 34.3 -38.4	2806	2 34.4 -38 25	6.4						
2 38.0 -38.9	2872	2 38.1 -38 49	6.1						
2 39.5 -38.5	2902	2 39.4 -38 22	8						
2 41.6 -38.7	2950	2 41.7 -38 36	7.8						
2 49.5 -38.9	3103	2 49.7 -38 51	6.0						
2 53.5 -38.6	3209	2 53.7 -38 36	6.2						
2 54.5 -38.4	3226	2 54.7 -38 24	7.3						
2 37.4 -39.1	2865	2 37.6 -39 2	7.8						

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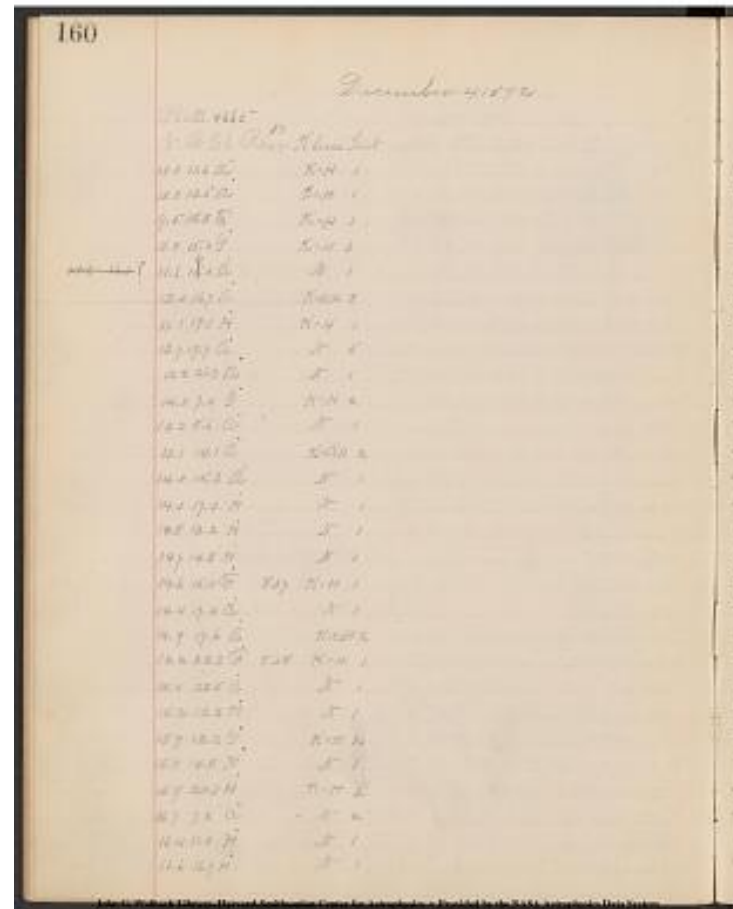
Plate 4665

[[table]]

V | H | Cl. | No. Rem. | K line | Int. |

10.0	11.6	A		K=H	1
10.0	13.5	A		K=H	1
9.5	18.8	E		K=H	1
11.8	15.0	G		K=H	3
[[[[[strikethrough]] 11.6 16.0? [/strikethrough]] 11.6 1 [[strikethrough]] 5					
[[[strikethrough]] 6.0 A N 1					
12.0	16.7	A		K=0.1H	3
11.1	19.1	H		K=H	1
12.7	19.7	A		N	5
12.8	21.3	A		N	1
14.0	7.0	G		K=H	2
13.2	8.6	A		N	1
13.1	14.1	A		K=0.2H	2
14.0	15.3	A		N	1
14.0	17.0	H		N	1
14.8	13.2	H		N	1
14.7	14.8	H		N	1
14.6	15.0	F	837	K=H	1
14.4	17.4	A		N	1
14.9	17.6	A		K=0.2H	2
14.2	22.3	F	838	K=H	1
15.0	23.5	A		N	1
15.2	12.2	H		N	1
15.9	12.2	G		K=H	2
15.9	14.8	H		N	1
15.9	20.3	H		K=H	2
16.7	7.3	A		N	2
16.4	11.0	H		N	1
16.6	16.7	H		N	1

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]									
1900 No. A.G.C 1900 R.A. 1900 Dec. Magn C.D.M. R.A. Dec. Magn									
2 33.0 -39.4	2780	2 33.1	-39 21	8					
2 37.9 -39.4	2870	2 38.0	-39 18	8.5					
2 52.0 -39.1	3162	2 52.0	-39 3	7.0					
2 42.0 -40.1	2958	2 41.9	-40 9	8.0					
2 44.4 -40.2			-40 72	2 43.2	-40. 19.6	8.4			
2 47.1 -40.4	3045	2 47.0	-40 21	6.5					
2 52.7 -40.0	3181	2 52.7	-39 51	9					
2 54.6 -40.8	3224^	[[3223]]	2 54.5	-40 42	5.2^	[[3.3]]			
2 59.0 -40.8	3301	2 58.7	-40 38	8.2					
2 20.5 -41.3	2499	2 20.5	-41 18	6.3					
2 25.0 -40.9	2595	2 24.9	-40 53	7.5					
2 39.4 -40.9	2906^	[[2905]]	2 39.5	-40 58	7^	[[6.8]]			
2 42.6 -41.6	2976	2 42.9	-41 23	7					
2 47.0 -41.6	3056	2 47.3	-41 23	7.1					
2 37.0 -41.9	2854	2 37.0	-41 44	7.5					
2 41.4 -41.8	2938	2 41.3	-41 43	8					
2 42.0 -41.8			-41 78	2 40.8	-41 45.8	8.0ZC			
2 48.6 -41.6	[[3092]]	[[3092]]	2 48.7	-41 43	6.7	[[6.7]]	-41 825	2 47.7	-41 40.1
2 49.0 -41.9	3092	2 48.9	-41 48	6.7					
3 2.0 -41.6	3351	3 1.5	-41 22	7.8					
3 5.5 -42.0	3402	3 4.9	-41 43	8	-41 904	3 4.0	-41 49.3	8.3GC	
2 34.0 -42.0	2808	2 34.4	-41 59	7.3					
2 34.0 -42.4	2804	2 34.4	-42 20	7.2					
2 40.9 -42.3	2936	2 41.2	-42 18	8.5					
2 57.0 -42.4	[[2511]]	2	7.2	[[7.2]]	-42 987	2			
55.5	-42 22.2	6.9w.a							
2 21.1 -42.7	2511	2 21.0	-42 37	7.2					
2 30.9 -42.6	2736	2 31.2	-42 3.3	7.3					
2 46.7 -42.7	3042	2 46.6	-42 39	8.5					

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2 33.0 -39.4	2780	2 33.1	-39 21	8					
2 37.9 -39.4	2870	2 38.0	-39 18	8.5					
2 52.0 -39.1	3162	2 52.0	-39 3	7.0					
2 42.0 -40.1	2958	2 41.9	-40 9	8.0					
2 44.4 -40.2			-40 72	2 43.2	-40. 19.6	8.4			
2 47.1 -40.4	3045	2 47.0	-40 21	6.5					
2 52.7 -40.0	3181	2 52.7	-39 51	9					
2 54.6 -40.8	3224^	[[3223]]	2 54.5	-40 42	5.2^	[[3.3]]			
2 59.0 -40.8	3301	2 58.7	-40 38	8.2					
2 20.5 -41.3	2499	2 20.5	-41 18	6.3					
2 25.0 -40.9	2595	2 24.9	-40 53	7.5					
2 39.4 -40.9	2906^	[[2905]]	2 39.5	-40 58	7^	[[6.8]]			
2 42.6 -41.6	2976	2 42.9	-41 23	7					
2 47.0 -41.6	3056	2 47.3	-41 23	7.1					
2 37.0 -41.9	2854	2 37.0	-41 44	7.5					
2 41.4 -41.8	2938	2 41.3	-41 43	8					
2 42.0 -41.8			-41 78	2 40.8	-41 45.8	8.0ZC			
2 48.6 -41.6	[[3092]]	[[3092]]	2 48.7	-41 43	6.7	[[6.7]]	-41 825	2 47.7	-41 40.1
2 49.0 -41.9	3092	2 48.9	-41 48	6.7					
3 2.0 -41.6	3351	3 1.5	-41 22	7.8					
3 5.5 -42.0	3402	3 4.9	-41 43	8	-41 904	3 4.0	-41 49.3	8.3GC	
2 34.0 -42.0	2808	2 34.4	-41 59	7.3					
2 34.0 -42.4	2804	2 34.4	-42 20	7.2					
2 40.9 -42.3	2936	2 41.2	-42 18	8.5					
2 57.0 -42.4	[[2511]]	2	7.2	[[7.2]]	-42 987	2			
55.5	-42 22.2	6.9w.a							
2 21.1 -42.7	2511	2 21.0	-42 37	7.2					
2 30.9 -42.6	2736	2 31.2	-42 3.3	7.3					
2 46.7 -42.7	3042	2 46.6	-42 39	8.5					

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Plate 4665

[[table]]

V|H|Cl|No Rem|K line|Int|

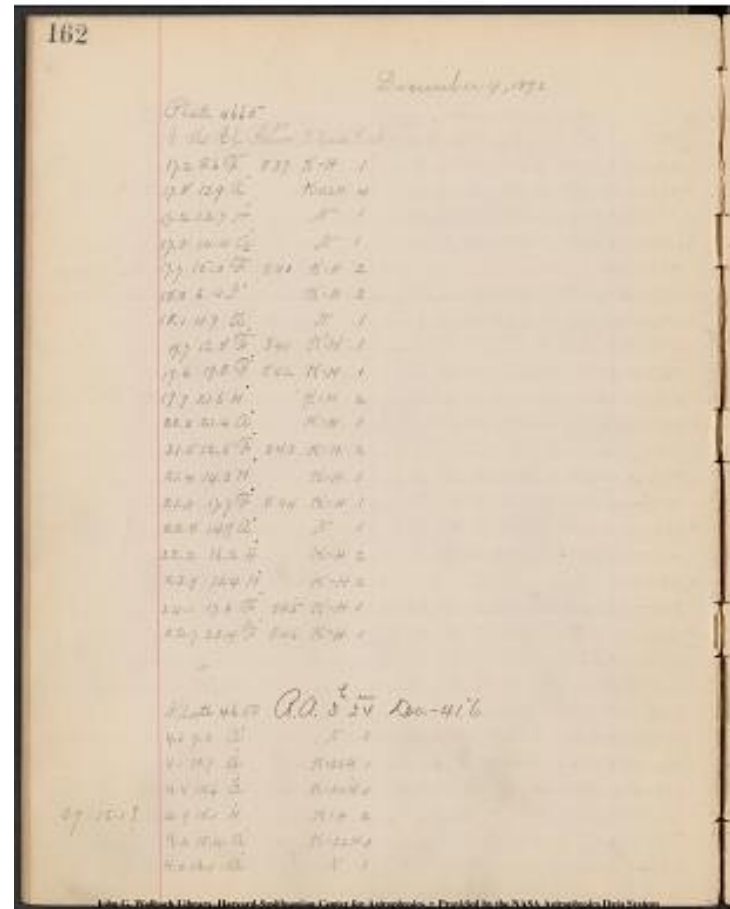
V	H	Cl	No Rem	K line	Int
17.2	8.6	F	839	K=H 1	
17.8	12.9	A		K=0.2H 4	
17.2	13.7	H		N 1	
17.8	14.4	A^		N 1	
17.7	15.0	F^	840	K=H 2	
18.8	6.4	I^		K=H 2	
18.1	11.9	A^		N 1	
19.7	12.8	F^	841	K=H 1	
19.6	19.8	F^	842	K=H 1	
19.9	21.6	H^		K=H 2	
20.3	21.4	A^		K=H 1	
21.5	12.5	F^	843	K=H 2	
21.4	14.3	H^		K=H 1	
21.3	17.7	F^	844	K=H 1	
22.8	12.9	A^		N 1	
22.2	16.2	H^		K=H 2	
23.9	10.4	H^		K=H 2	
24.1	17.0	F^	845	K=H 1	
22.7	20.4	F^	846	K=H 1	

Plate 4650 R.A. 3^[[h]] 24^[[m]] Dec.-41.°6

[[table]]

V	H	Cl	No Rem	K line	Int
4.6	9.3	A		N 3	
4.1	10.7	A		K=0.5H 1	
4.4	14.6	A		K=0.2H 3	
4.9	15.1	H		K=H 2	
4.2	15.4	A		K=0.2H 3	
4.0	16.1	A		N 1	

[[table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum Plates, Southern Draper Catalogue #61
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[[table]]											
1900	No.	A.G.C	1900 R.A.	1900 Dec.	Magn	C.D.M.	R.A.	Dec.			
Magn											
2 24.7-43.0	2580	2 244	-43 52	7.8							
2 35.9-43.4	2838	2 36.0	-43 20	5.0							
2 38.0-43.1	2879	2 38.4	-42 58	7.8							
2 40.3-43.4	2920	2 40.0	-43 16	8.8							
2 41.5-43.3	2957	2 41.7	-43 16	7.0							
2 18.5-43.7	2446	2 18.3	-43 39	6.5							
2 33.1-43.5			-43 798	2 32.3	-43 30.3	8.9ZC					
2 35.4-44.4	2829	2 35.5	-44 14	8							
2 55.0-44.3	3242	2 55.3	-44 9	7							
3 0.4-44.3	3327	3 0.3	-44 17	6.9							
2 59.5-44.5	3316	2 59.8	-44 27	8							
2 34.5-45.4	2815	2 34.8	-45 10	7.2							
2 39.6-45.3	2913	2 39.7	-45 5	7.5							
2 50.4-45.1	3120	2 50.2	-45 1	8							
2 41.0-45.9	2944	2 41.3	-45 48	7.8							
2 45.0-45.6	3019	2 45.4	-45 31	7.0							
2 29.0-46.5	2690	2 29.2	-46 35	9.2							
2 47.5-46.7	3065	2 47.7	-46 25	7.5	-46 831	2 46.8	-46 30.6				
8.1											
2 57.5-45.9	3280	2 57.4	-45 41	8.5							
3 9.1-36.4	3490	3 9.1	-36 19	6.1							
3 12.8-36.1	3563	3 12.6	-36 3	6.7							
3 22.0-36.4	3744	3 22.1	-36 17	6.2							
3 23.7-36.1	3778	3 23.7	-36 2	5.6							
3 24.3-36.3	3793	3 24.4	-36 12	6.6							
3 26.0-36.1	3833	3 26.2	-36 6	7							
[[/table]]											

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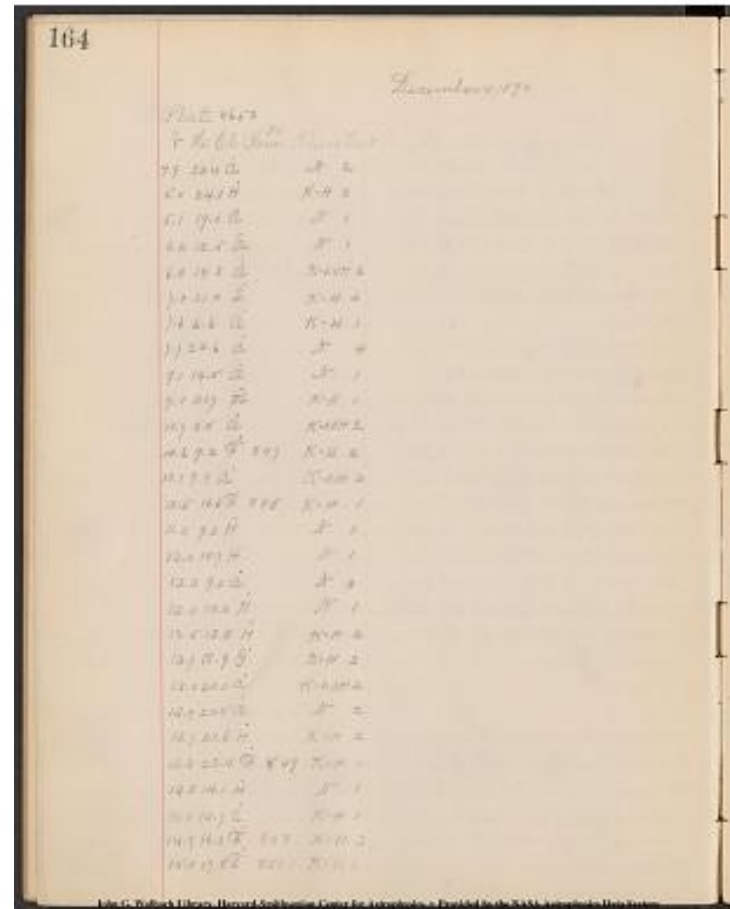
1900	No. A.G.C	1900 R.A.	1900 Dec.	Magn	C.D.M.	R.A.	Dec.				
2 24.7-43.0	2580	2 24.4	-43 52	7.8							
2 35.9-43.4	2838	2 36.0	-43 20	5.0							
2 38.0-43.1	2879	2 38.4	-42 58	7.8							
2 40.3-43.4	2920	2 40.0	-43 16	8.8							
2 41.5-43.3	2957	2 41.7	-43 16	7.0							
2 18.5-43.7	2446	2 18.3	-43 39	6.5							
2 33.1-43.5			-43 798	2 32.3	-43 30.3	8.9ZC					
2 35.4-44.4	2829	2 35.5	-44 14	8							
2 55.0-44.3	3242	2 55.3	-44 9	7							
3 0.4-44.3	3327	3 0.3	-44 17	6.9							
2 59.5-44.5	3316	2 59.8	-44 27	8							
2 34.5-45.4	2815	2 34.8	-45 10	7.2							
2 39.6-45.3	2913	2 39.7	-45 5	7.5							
2 50.4-45.1	3120	2 50.2	-45 1	8							
2 41.0-45.9	2944	2 41.3	-45 48	7.8							
2 45.0-45.6	3019	2 45.4	-45 31	7.0							
2 29.0-46.5	2690	2 29.2	-46 35	9.2							
2 47.5-46.7	3065	2 47.7	-46 25	7.5	-46 831	2 46.8	-46 30.6				
8.1											

3 9.1-36.4	3490	3 9.1	-36 19	6.1							
3 12.8-36.1	3563	3 12.6	-36 3	6.7							
3 22.0-36.4	3744	3 22.1	-36 17	6.2							
3 23.7-36.1	3778	3 23.7	-36 2	5.6							
3 24.3-36.3	3793	3 24.4	-36 12	6.6							
3 26.0-36.1	3833	3 26.2	-36 6	7							

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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum Plates, Southern Draper Catalogue #61
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 December 4, 1892
 Plate 4650
 [[table]]
V	H	Cl.	No Run	Kline	Int
 4.9|23.4|A| |N|2|
 5.0|24.1|H| |K=H|3|
 5.1|19.0|A| |N|1|
 6.2|12.5|A| |N|1|
 6.8|14.3|A| |K=0.4H|2|
 7.0|21.3|L| |K=H|3|
 7.6|6.6|A| |K=H|1|
 7.7|23.6|A| |N|4|
 9.1|14.5|A| |N|1|
 9.1|21.4|H| |K=H|1|
 10.4|8.8|A| |K=0.5H|2|
 10.6|9.2|F|844|K=H|2|
 10.1|9.9|A| |K=0.3H|2|
 10.5|10.6|F|848|K=H|1|
 11.3|9.3|H| |N|1|
 12.0|10.4|H| |N|1|
 13.3|9.5|A| |N|3|
 13.0|10.0|H| |N|1|
 12.5|13.8|H| |K=H|2|
 12.4|18.9|F|849|K=H|3|
 13.0|20.0|A| |K=0.3H|2|
 13.9|20.5|A| |K=0.3H|2|
 13.4|21.6|H| |N|2|
 13.3|23.4|F| |K=H|1|
 14.8|14.1|H| |N|1|
 15.0|14.4|E| |K=H|1|
 14.9|16.3|F|850|K=H|3|
 15.0|14.8|F|851|K=H|1|



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
 Plates, Southern Draper Catalogue #61
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[[table]]									
1900 No. A.G.C R.A. 1900 Dec.1900 Magn C.D.M. R.A. Dec.									
Magn.]									
3^[[h]]	44.0^[[m]]	-36.4^	4225	3^[[h]]	44.0^[[m]]	-36° 2.4'	6.7		
3 45.5	-36.6	4256	3 45.7	-36 30	4.1				
3 33.0	-36.7	3999	3 33.2	-36 37	7.5				
3 16.6	-37.2	3638	3 16.8	-37 8	8				
3 21.4	-37.6	3734	3 21.4	-37 31	7.2				
3 39.0	-37.6	4121	3 39.1	-37 38	4.8				
3 2.0	-37.8	3359	3 2.0	-37 43	7.5				
3 45.0	-37.9	4242^	[[4241]]	3 44.9	-37 55	4.8^	[[5.5]]		
3 22.0	-38.8	3739	1/2	3 21.8	-38 40	7.5			
3 40.3	-38.7	4145	3 40.4	-38 36	7.2				
3 7.0	-39.5	3446	3 6.9	-39 26	7				
3 8.0	-39.4	3468	3 8.0	-39 24	7.2				
3 10.0	-39.2	3509	3 10.0	-39 10	6.8				
3 11.9	-39.5	3554	3 11.9	-39 25	7.8				
3 8.2	-39.7	3474	3 8.1	-39 44	7				
3 11.9	-40.1	3547	3 11.7	-40 8	7.8				
3 8.6	-40.8	3482	3 8.5	-40 47	7.3				
3 10.5	-40.7	3518	3 10.4	-40 37	7.5				
3 20.2	-40.4	3703	3 19.9	-40 26	7.2				
3 33.5	-40.7	4006	3 33.5	-40 36	4.8				
[[underlined]] 3 36.3[[/underlined]] -40.7 4054 4055 3 36.2 -40 40 8 6.9									
3 37.5	-41.0	4083	3 37.5	-40 54	7.8				
3 40.5	-40.9	4148	3 40.6	-40 58	6.6				
3 45.5	-40.7	4250	3 45.3	-40 42	7.2				
3 20.0	-41.6	3713	3 20.5	-41 35	7				
3 21.7	-41.7	3750	3 22.1	-41 41	7.8				
3 26.6	-41.7	3846	3 26.7	-41 43	6.4				
3 30.5	-41.7	3934	3 30.5	-41 41	7.5				
[[/table]]									

165									
No. 1900 R.A. 1900 Dec.1900 Magn C.D.M. R.A. Dec.									
Magn.]									
3 45.5	-36.6	4256	3 45.7	-36 30	4.1				
3 33.0	-36.7	3999	3 33.2	-36 37	7.5				
3 16.6	-37.2	3638	3 16.8	-37 8	8				
3 21.4	-37.6	3734	3 21.4	-37 31	7.2				
3 39.0	-37.6	4121	3 39.1	-37 38	4.8				
3 2.0	-37.8	3359	3 2.0	-37 43	7.5				
3 45.0	-37.9	4242^	[[4241]]	3 44.9	-37 55	4.8^	[[5.5]]		
3 22.0	-38.8	3739	1/2	3 21.8	-38 40	7.5			
3 40.3	-38.7	4145	3 40.4	-38 36	7.2				
3 7.0	-39.5	3446	3 6.9	-39 26	7				
3 8.0	-39.4	3468	3 8.0	-39 24	7.2				
3 10.0	-39.2	3509	3 10.0	-39 10	6.8				
3 11.9	-39.5	3554	3 11.9	-39 25	7.8				
3 8.2	-39.7	3474	3 8.1	-39 44	7				
3 11.9	-40.1	3547	3 11.7	-40 8	7.8				
3 8.6	-40.8	3482	3 8.5	-40 47	7.3				
3 10.5	-40.7	3518	3 10.4	-40 37	7.5				
3 20.2	-40.4	3703	3 19.9	-40 26	7.2				
3 33.5	-40.7	4006	3 33.5	-40 36	4.8				
[[underlined]] 3 36.3[[/underlined]] -40.7 4054 4055 3 36.2 -40 40 8 6.9									
3 37.5	-41.0	4083	3 37.5	-40 54	7.8				
3 40.5	-40.9	4148	3 40.6	-40 58	6.6				
3 45.5	-40.7	4250	3 45.3	-40 42	7.2				
3 20.0	-41.6	3713	3 20.5	-41 35	7				
3 21.7	-41.7	3750	3 22.1	-41 41	7.8				
3 26.6	-41.7	3846	3 26.7	-41 43	6.4				
3 30.5	-41.7	3934	3 30.5	-41 41	7.5				
[[/table]]									

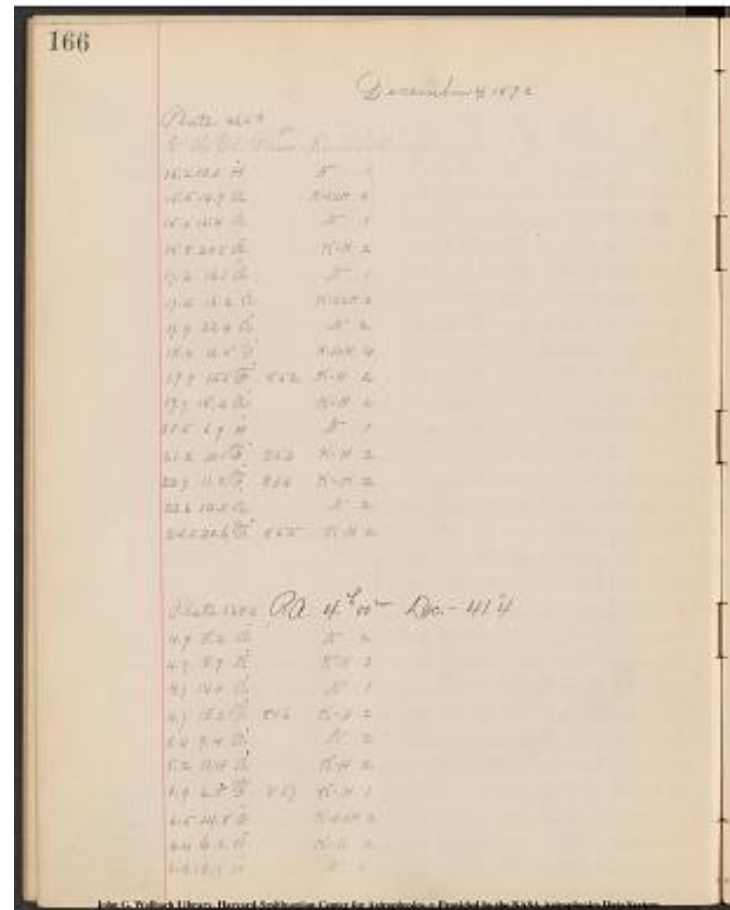
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
Extracted Nov-17-2023 02:05:05

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December 4, 1892
Plate 4650

[[table]]					
V	H	Cl	No Rem	Kline	Int
15.2	10.0	H		N 1	
15.5	14.9	A		K=1.2H 3	
15.3	15.4	A		N 1	
15.8	20.5	A		K=H 2	
17.2	16.1	A		N 1	
17.4	16.2	A		K=0.4H 3	
17.9	23.4	A		N 2	
18.4	12.5	G		K=1.2H 4	
19.9	15.5	F	852	K=H 2	
19.7	18.4	A		K=H 2	
20.5	6.9	H		N 1	
21.2	10.1	F	853	K=H 2	
23.7	11.2	F	854	K=H 2	
23.6	14.5	A		N 2	
24.2	20.6	F		K=H 2	
[[/table]]					

Plate 5683 R.A. 4h00m Dec.-41.4°

[[table]]				
V	H	Cl	No Rem	Kline
4.9	8.2	A		N 2
4.9	8.9	K		K=H 3
4.7	14.0	A		N 1
4.7	18.2	F	856	K=H 2
5.4	9.4	A		N 2
5.2	11.4	A		N 2
6.9	6.5	F	857	K=H 2
6.5	14.8	A		K=0.5H 2
6.4	16.2	H		K=H 2
6.4	18.7	H		N 1
[[/table]]				



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]									
1900 No A.G.C R.A.1900 Dec.1900 Magn C.D.M. R.A. Dec. Magn.]									
----- ----- ----- ----- ----- ----- ----- ----- ----- -----									
3 ^h 9 ^m 9.2 ^s [[m]]	-41.7	[[symbol - degree symbol]]	3501	3 ^h 9 ^m 9.1 ^s [[m]]	-				
41	[[symbol - degree symbol]]	45	17.2						
3 22.5 -42.1	3757	3 22.6 -42 0	6.5						
3 24.5 -41.9	3796	3 24.3 -41 51	8.2						
3 38.0 -42.1	4094	3 37.9 -42 4	7.8						
3 26.0 -42.7	3831	3 26.0 -42 49	7.2						
3 26.5 -42.9	3840	3 26.5 -42 59	6.1						
3 46.5 -43.1	4276	3 46.4 -43 1	7						
3 15.5 -43.5	3623	3 15.8 -43 27	4.4						
3 24.5 -44.2	3795	3 24.3 -44 12	6.8						
3 32.4 -44.1	3973	3 32.4 -44 3	7.0						
3 0.4 -44.3	3327	3 0.3 -44 17	6.9						
3 8.6 -44.8	3487	3 8.9 -44 47	6.2						
3 11.7 -46.1	3550	3 11.8 -46 2	6.7						
3 21.5 -46.1	3733 ^h [[3732]]	3 21.2 -46.1	7 ^h [[8.5]]						
3 39.0 -46.3	4119	3 39.0 -46 16	6.7						
3 44.0 -36.5	4225	3 44.0 -36 24	6.7						
3 45.6 -36.6	4256	3 45.7 -36 30	4.1						
3 58.0 -36.5	4503	3 58.2 -36 23	8.5						
[[underlined]] 4 9.0 -36.5	[[/underlined]]	4 715 ^h [[4713]]	4 8.9 ^h [[8.8]]	-					
36 24 7.8 ^h [[7]]									
3 47.0 -36.8	4286	3 46.9 -36 43	7.0						
3 52.0 -36.7	4389	3 51.7 -36 37	7.5						
3 39.5 -37.4	[[strikethrough]] 4121	3 39.1 -37 38							
4.8[[/strikethrough]]		-37 14	17	3 38.5	-37 26	9	8.0		
4 0.3 -37.4	4547	4 0.1 -37 21	6.9						
4 4.0 -37.4	4621	4 4.0 -37 20	6.9						
4 10.3 -37.3	4749	4 10.3 -37 17	7						
[[/table]]									

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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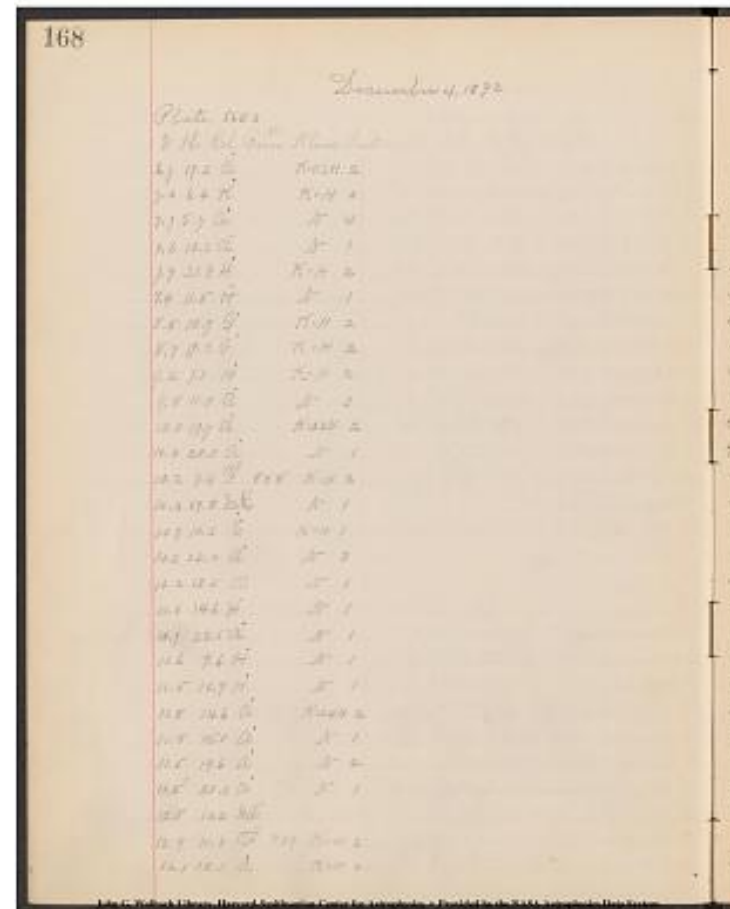
Plate 5683

[[table]]

V | H | Cl | No. Rem. | K Line | Int|

6.9	19.2	A			K=0.2H 2
7.3	6.4	K			K=H 3
7.7	8.7	A			N 4
7.6	10.2	A			N 1
7.9	21.9	H			K=H 2
8.4	11.5	H			N 1
8.8	18.9	G			K=H 2
8.9	19.2	G			K=H 2
9.2	7.1	H			K=H 2
9.8	11.5	A			N 3
10.0	19.7	A			K=0.2H 2
10.0	20.0	A			N 1
10.2	7.4	F 858			K=H 2
10.3	x9.8	Mb [[a /]]			N 1
10.9	10.3	E			K=H 1
10.2	12.0	A			N 3
10.2	13.5	A			N 1
11.0	14.6	H			N 1
10.4	22.5	A			N 1
11.6	9.6	H			N 1
11.5	10.9	H			N 1
11.8	14.6	A			K=0.4H 2
11.8	15.0	A			N 1
11.5	19.6	A			N 2
11.5	20.3	A			N 1
12.5	10.2	Mb			
12.9	11.3	F 859			K=H 3
12.1	12.1	A			K=H 2

[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum Plates, Southern Draper Catalogue #61
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[[table]]									
1900 No A.G.C R.A.1900 Dec.1900 Magn C.D.M. R.A. Dec. Magn.]									
----- ----- ----- ----- ----- ----- ----- ----- ----- -----									
4 ^A [[h]]	11.6 ^A [[m]]	-37.5°	4777	4 ^A [[h]]	11.6 ^A [[m]]	-37°	27'	6.8	
3 39.0 -37.6	4121	3 39.1 -37 38	4.8						
3 45.0 -37.9	4242 ^A [[4241]]	3 44.9 -37 55	4.8 ^A [[5.5]]						
3 49.0 -37.6	4323	3 48.7 -37 49	8						
4 18.2 -38.1	4900	4 18.2 -38 1	7.2						
3 51.8 -38.4	4390	3 51.8 -38 17	7.8						
4 10.9 -38.6	4758	4 10.8 -38 31	7.1						
4 11.6 -38.6	4780	4 11.7 -38 33	7.1						
3 40.5 -38.8	4145	3 40.4 -38 36	7.2						
3 51.7 -39.1	4387	3 51.7 -39 4	6.8						
4 13.0 -39.2	4804	4 13.0 -39 8	7.2						
4 13.6 -39.2	4815	4 13.8 -39 5	8.2						
3 41.2 -39.2	4158	3 41.1 -39 8	7.4						
3 47.0 -39.3	4293	3 47.1 -39 17	7.8						
3 48.5 -39.6		3 47.7 -39 38	0	8.0ZC					
3 53.0 -39.3	4407	3 52.9 -39 15	7.0						
3 57.0 -39.4	4473	3 56.9 -39 14	8						
4 0.0 -39.7	4538	3 59.6 -39 39	7.5	39 1303	3 58.7 -39 42	3	7.4GC		
4 20.4 -39.5	4942	4 20.3 -39 22	8.5						
3 46.6 -39.9	4277	3 46.6 -39 55	8						
3 50.0 -39.9	4352	3 50.1 -39 50	8.5						
3 59.6 -40.1	4536	3 59.5 -40 5	7						
4 1.1 -40.1		4 0.1 -40 1208	4 0.1	-40 6.3		8.4			
4 12.5 -39.9	4797	4 12.7 -39 52	8.5						
4 14.6 -39.9		3 42.7	4 13.8	-39 52.7		8.7ZC			
3 48.0 -40.5	4310	3 47.9 -40 23	8						
3 50.7 -40.7	4368	3 50.9 -40 40	6.2						
3 53.0 -40.3	4409 ^A [[4408]]	3 53.1 -40 13	7.1 ^A [[7.7]]						
[[/table]]									

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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December 4, 1892
Plate 5683

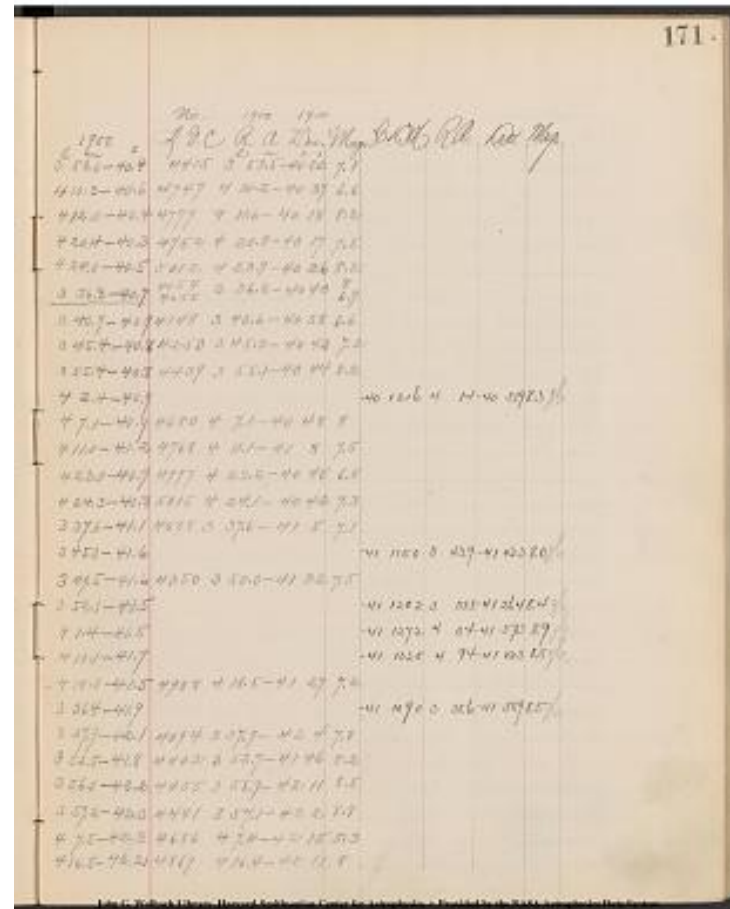
[[table]]				
V	H	Cl	No. Rem.	K Line Int
12.3	12.3	H	K=H 2	
12.8	18.5	I	K=H 2	
12.3	19.1	A	N 1	
12.3	22.7	A	N 2	
12.8	23.9	A	N 1	
13.4	5.7	A	N 3	
13.7	7.4	I	K=H 2	
13.2	9.2	F	860 K=H 2	
13.1	12.9	F	861 K=H 1	
13.4	15.5	A	N 1	
13.3	17.4	A	K=H 2	
13.9	18.9	H	K=H 2	
13.4	23.5	A	N 2	
13.3	23.9	F	862 K=H 2	
14.2	6.4	A	K=H 2	
15.0	9.1	A	N 1	
14.7	11.0	F	863 K=H 2	
14.5	11.9	F	864 K=H 1	
14.7	15.2	A	N 1	
14.9	18.6	A	N 1	
14.7	21.7	F	865 K=H 2	
15.8	6.8	F	866 K=H 1	
16.0	6.6	A	N 2	
15.2	12.1	F	867 K=H 1	
16.0	13.2	F	868 K=H 2	
15.7	13.8	F	869 K=H 1	
16.0	17.5	A	K=H 4	
16.0	209	A	N 1	
[[/table]]				

470	Spectroscopy, 1892	
Plate 5683	Spectroscopy, 1892	
12.3 12.3 H	12.3 12.3 H	12.3 12.3 H
12.8 18.5 I	12.8 18.5 I	12.8 18.5 I
12.3 19.1 A	12.3 19.1 A	12.3 19.1 A
12.3 22.7 A	12.3 22.7 A	12.3 22.7 A
12.8 23.9 A	12.8 23.9 A	12.8 23.9 A
13.4 5.7 A	13.4 5.7 A	13.4 5.7 A
13.7 7.4 I	13.7 7.4 I	13.7 7.4 I
13.2 9.2 F	13.2 9.2 F	13.2 9.2 F
13.1 12.9 F	13.1 12.9 F	13.1 12.9 F
13.4 15.5 A	13.4 15.5 A	13.4 15.5 A
13.3 17.4 A	13.3 17.4 A	13.3 17.4 A
13.9 18.9 H	13.9 18.9 H	13.9 18.9 H
13.4 23.5 A	13.4 23.5 A	13.4 23.5 A
13.3 23.9 F	13.3 23.9 F	13.3 23.9 F
14.2 6.4 A	14.2 6.4 A	14.2 6.4 A
15.0 9.1 A	15.0 9.1 A	15.0 9.1 A
14.7 11.0 F	14.7 11.0 F	14.7 11.0 F
14.5 11.9 F	14.5 11.9 F	14.5 11.9 F
14.7 15.2 A	14.7 15.2 A	14.7 15.2 A
14.9 18.6 A	14.9 18.6 A	14.9 18.6 A
14.7 21.7 F	14.7 21.7 F	14.7 21.7 F
15.8 6.8 F	15.8 6.8 F	15.8 6.8 F
16.0 6.6 A	16.0 6.6 A	16.0 6.6 A
15.2 12.1 F	15.2 12.1 F	15.2 12.1 F
16.0 13.2 F	16.0 13.2 F	16.0 13.2 F
15.7 13.8 F	15.7 13.8 F	15.7 13.8 F
16.0 17.5 A	16.0 17.5 A	16.0 17.5 A
16.0 209 A	16.0 209 A	16.0 209 A

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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171
No. 1900 1900

[[table]]									
1900] No A.G.C [R.a.1900 Dec.1900 Magn C.D.M. R.a. Dec. Magn.]									
3^[[h]] 53.6^[[m]] -40.4^[[s]] 3^[[h]] 53.5^[[m]] -40^[[symbol - degree symbol]] 20'7.1									
4 10.3-40.6	4747	4 10.2	-40 37	6.6					
4 12.0-40.4	4779	4 11.6	-40 18	8.2					
4 20.4-40.3	4952	4 20.8	-40 17	7.5					
4 24.0-40.5	5012	4 23.9	-40 26	8.2					
3 36.3-40.7	4054	3 36.2	-40 40	8					
3 36.3-40.7	4055	3 36.2	-40 40	6.9					
3 40.9-40.9	4148	3 16.8	-42 43	6.6					
3 45.4-40.8	4250	3 21.4	-42 49	7.2					
3 55.4-40.8	4439	3 46.9	-43 24	8.2					
4 2.4-40.9			-40 12	16	4 14	-40 51	9	8.3	36
4 7.1-40.9	4680	4 7.1	-40 48	8					
4 11.0-41.2	4768	4 11.1	-41 8	7.5					
4 23.0-40.9	4997	4 23.2	-40 45	6.8					
4 24.3-40.8	5015	4 24.1	-40 42	7.3					
3 37.6-41.1	4088	3 37.6	-41 5	7.1					
3 45.0-41.6			-41 11	50	3 43	9	-41 42	3	8.0 36
3 49.5-41.6	4350	3 50.0	-41 32	7.5					
3 52.1-41.5			-41 12	01	3 51	1	-41 26	4	8.4 36
4 1.4-41.5			-41 12	72	4 0.4	-41 37	3	8.9	36
4 10.1-41.7			-41 13	25	4 9.4	-41 42	3	8.5	36
4 18.0-41.5	4908	4 18.5	-41 27	7.2					
3 36.4-42.1			-41 10	90	3 35	6	-41 55	9	8.5 36
3 37.9-42.1	4094	3 37.9	-42 4	7.8					
3 52.5-41.8	4402	3 52.7	-41 46	8.2					
3 56.0-42.2	4455	3 55.9	-42 11	8.5					
3 57.2-42.0	4481	3 57.1	-42 2	8.8					
4 7.5-42.3	4686	4 7.4	-42 15	5.3					
4 16.5-42.2	4869	4 16.4	-42 11	8					



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum Plates, Southern Draper Catalogue #61
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December 4, 1892
Plate 5683

[[6 columned table]]
[V][H][Cl.][No. Rem][K Line][Int.]

15.8|21.7|a| |K=H|1|
16.3|7.7|H| |N|1|
16.6|8.2|H| |N|1|
16.3|10.9|F|870|K=H|1|
16.8|13.2|F|871|K=H|2|
16.9|13.6|| |K=H|2|
16.6|18.7|L| |K=H|4|
16.3|24.0|H| |K=H|1|
17.8|9.9|a| |K=0.4|2|
17.9|16.3|G| |K=H|2|
17.8|16.6|F|872|K=H|1|
17.4|17.3|H| |K=H|1|
17.4|19.5|F|873|K=H|1|
17.8|21.5|H| |K=H|1|
17.9|23.9|A| |N|1|
18.6|11.4|H| |K=H|1|
18.4|12.3|H| |K=H|2|
18.8|14.5|H| |N|1|
19.1|6.5|H| |N|1|
19.7|6.3|H| |N|1|
19.1|7.0|F|874|K=H|1|
19.4|12.3|F|875|K=H|1|
20.0|13.5|| |K=H|2|
19.5|17.1|F|876|K=H|1|
19.5|20.4|a| |N|1|
19.1|20.8|H| |N|1|
19.2|22.2|F|877|K=H|1|
20.1|7.1|H| |N|1|

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]									
1900 No. A.G.C 1900 R.A. 1900 Dec. Magn. C.D.M. R.A. Dec. Magn.									
4^[[h]] 18.7^[[m]] -42.1^° 4914 4^[[h]] 18.8^[[m]] -42^[[sybol - degree symbol]] 0' 8.8									
3 41.0 -42.3	4152	3 40.9	-42 12 7.5						
3 42.5 -42.5	4179	3 42.2	-42 21 8.2						
3 49.2 -42.5	4340	3 49.5	-42 17 7.8						
3 55.8 -42.7	4450	3 55.6	-42 34 7.8						
3 56.9 -42.7	4471	3 56.6	-42 41 7.2						
4 10.6 -42.6	4757	4 10.7	-42 32 3.8						
4 24.6 -42.2	5034	4 24.9	-42 11 6.9						
3 46.3 -43.0	4276	3 46.4	-43 1 7						
4 4.4 -43.2	4625	4 4.1	-43 11 6.8						
4 5.0 -43.2	4638	4 4.9	-43 7 7.5						
4 7.0 -43.0	4675	4 6.9	-42 53 8						
4 13.0 -43.0	4802	4 12.9	-42 52 8						
4 18.5 -43.1	4907	4 18.5	-43 1 7.5						
4 25.0 -42.9	5030	4 24.8	-42 49 8						
3 50.4 -43.6	4362	3 50.4	-43 28 8.2						
3 53.0 -43.4	4405	3 52.9	-43 25 7						
3 59.4 -43.6			-43 12 7.5	3 58.3	-43 39.6	8.8 ZC			
3 37.0 -43.6	4072	3 37.0	-43 34 7						
3 36.1 -44.1	4058	3 36.3	-43 52 9.2						
3 38.5 -43.8	4109	3 38.4	-44 5 8	8	[[/strikethrough]]				
	-43 11 4.5	3 37.6	-43 40.6	8.4 ZC					
3 53.1 -44.0	4406	3 53.0	-43 55 8.5						
3 56.3 -4.2	4460	3 56.1	-44 12 7.0						
46.5 -44.0	4659	4 6.0	-43 45 9.5						
4 15.5 -43.9			-43 13 7.7	4 14.9	-43 55.4	8.6 ZC			
4 16.5 -43.7			-43 13 8.1	4 15.7	-43 47.0	7.9 ZC			
4 20.5 -43.7	4946	4 20.6	-43 41 7.2						
3 38.5 -44.2	4109	3 38.4	-44 5 8						

[[/table]]

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
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December 4, 1892

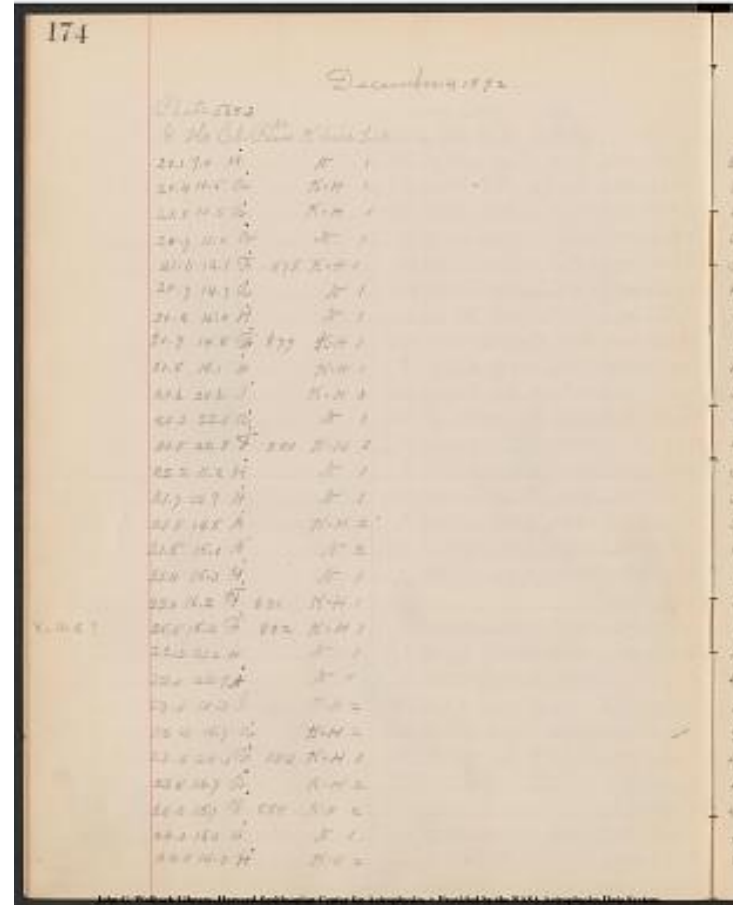
Plate 5683

[[table]]

[V|H|Cl.|No. Rem.|K line|Int|]

V	H	Cl.	No.	Rem.	K line	Int.
20.1	9.0	H			N 1	
20.4	10.5	a			K=H 1	
21.0	10.5	a			K=H 1	
20.7	11.0	a			N 1	
21.0	14.1	F	878		K=H 1	
20.7	14.7	a			N 1	
20.4	15.0	H			N 1	
20.9	14.8	F	879		K=H 1	
20.8	18.1	H			K=H 1	
20.6	20.6				K=H 3	
20.3	22.5	a			N 1	
20.5	22.8	T	880		K=H 3	
22.2	11.2	H			N 1	
21.7	12.9	H			N 1	
21.5	14.5	A			K=H 2	
21.5	15.0	A			N 2	
21.4	15.3	H			N 1	
22.0	16.2	F	881		K=H 1	
^[[V=21.5?]]	25.5	18.2	F	882	K=H 1	
22.3	21.2	H			N 1	
22.0	22.9	A			N 1	
23.0	10.3				K=H 2	
23.4	15.7	a			K=H 1	
23.5	20.1	T	883		K=H 1	
23.8	16.7	a			K=H 2	
24.3	18.7	F	884		K=H 2	
24.0	15.4	H			N 1	
24.4	14.3	H			K=H 2	

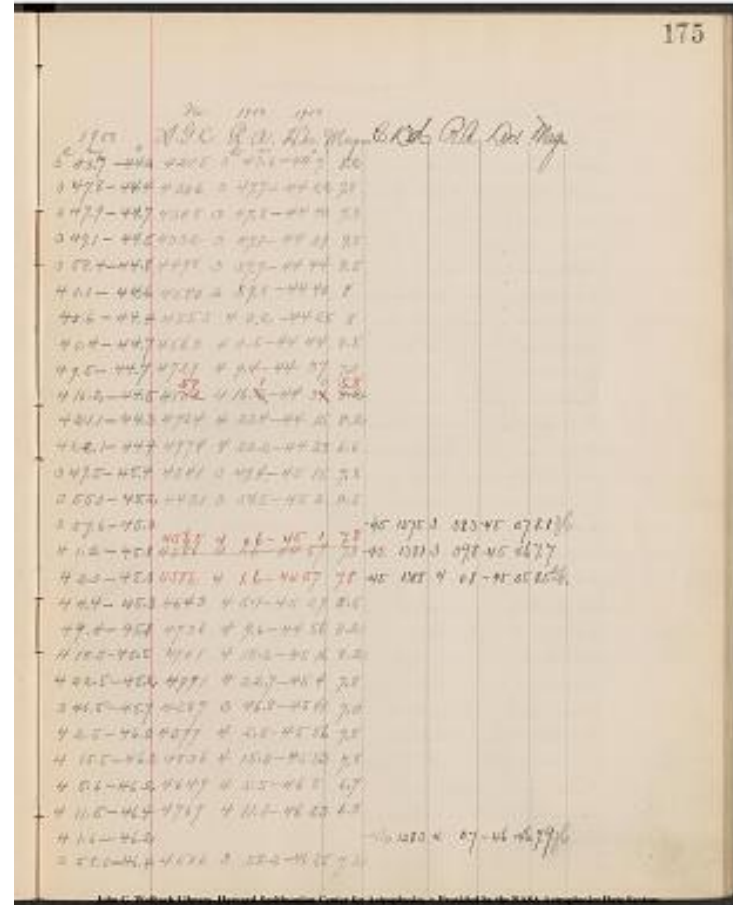
[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
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[[table]]
 1900 | No. A.G.C | 1900 R.A. | 1900 Dec. | Magn. | C.D.M. | R.A. | Dec.
 Magn

1900	No. A.G.C	1900 R.A.	1900 Dec.	Magn.	C.D.M.	R.A.	Dec.
3 ^h 43 ^m 43.6 ^s	7	44.3	4215	3 ^h 43 ^m 43.6 ^s			
3 47.8-44.4	4306	3 47.7-44.22	7.8				
3 47.9-44.5	4308	3 47.8-44.40	7.8				
3 49.1-44.5	4332	3 49.1-44.29	9.5				
3 58.4-44.8	4498	3 57.9-44.44	8.5				
4 0.0-44.6	4540	3 59.8-44.40	8				
4 0.6-44.4	4553	4 0.2-44.25	8				
4 0.4-44.7	4563	4 0.5-44.44	8.5				
4 9.5-44.7	4729	4 9.4-44.37	7.0				
4 16.2-44.5	48	63	59	4			
16	2	1	44				
3	1	0	8.2				
5.8							
4	21.1-44.3	4964	4 21.4-44 15	8.2			
4	22.1-44.4	4974	4 22.2-44 23	6.6			
3	49.5-45.4	4341	3 49.4-45 15	7.8			
3	55.0-45.2	4431	3 54.5-45 2	8.5			
3	59.6-45.0		45 1375	3 58.3	45 0.7	8.1	ZC
4	1.2-45.1	4586	4 1.6-44 57	7.8			
4	2.0-45.0	4586	4 1.6-44 57	7.8	45 1388	4 0.8	45 0.5
4	4.4-45.3	4643	4 5.1-45 29	8.5			
4	9.4-45.1	4736	4 9.6-44 56	8.2			
4	18.0-45.5	4901	4 18.2-45 16	8.2			
4	22.5-45.2	4991	4 22.7-45 4	7.8			
3	46.5-45.7	4287	3 46.8-45 41	7.0			
4	2.5-46.0	4599	4 2.5-45 56	7.8			
4	15.5-46.0	4836	4 15.0-45 53	7.8			
4	5.6-46.2	4649	4 5.5-46 8	6.7			
4	11.5-46.4	4769	4 11.1-46 23	6.8			
4	1.6-46.2		46 1283	4 0.7	46 14.6	7.9	ZC
3	58.0-46.4	4506	3 58.2-46 25	7.2			



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
 Plates, Southern Draper Catalogue #61
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December 4, 1892
Plate 5683

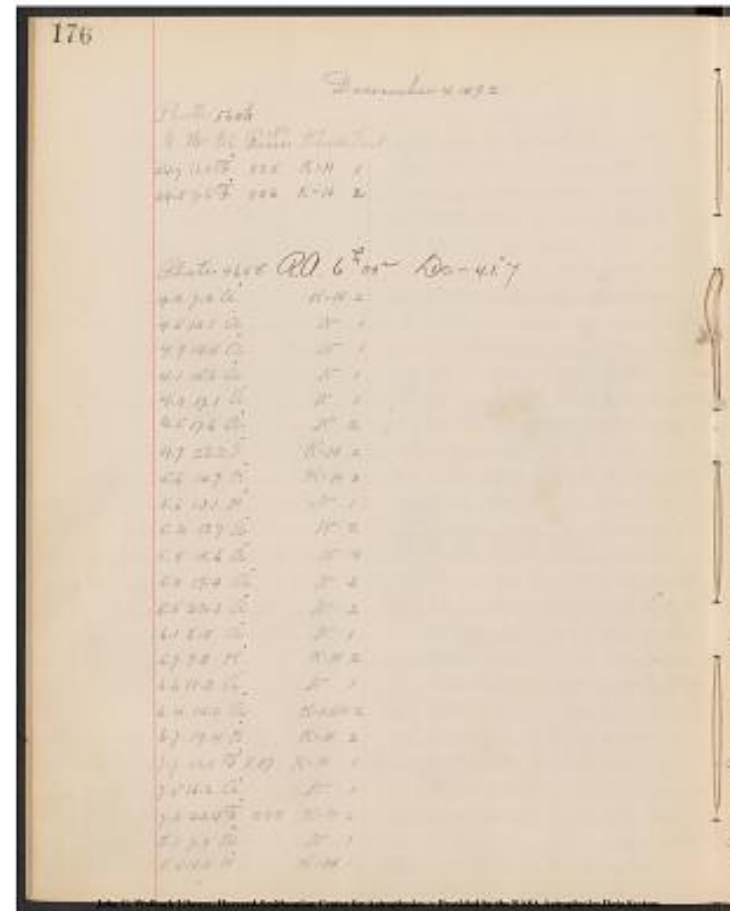
[[table]]									
V	H	Cl.	Rem	No	K	line	Int		

24.4	11.0	F	885	K=H	1				
24.5	7.6	F	886	K=H	2				

Plate 4658. R.A. 6^{h} 00^{m} Dec $-41^{\circ}.7$

[[table]]									

4.3	4.3	A		K=H	2				
4.5	13.1	A		N	1				
4.9	14.5	A		N	1				
4.1	15.6	A		N	1				
4.3	17.1	A		N	1				
4.5	17.6	A		N	2				
4.9	22.2	I		K=H	2				
5.6	10.9	K		K=H	3				
5.6	13.1	H		N	1				
5.2	13.9	A		N	2				
5.8	15.6	A		N	4				
5.8	19.4	A		N	3				
5.5	22.1	A		N	2				
6.1	18.5	A		N	1				
6.7	9.8	K		K=H	2				
6.6	10.3	A		N	1				
6.4	14.0	A		K=0.5H	2				
6.7	19.4	K		K=H	1				
7.7	11.1	F	887	K=H	1				
7.5	16.2	A		N	1				
7.3	23.4	F	888	K=H	2				
8.1	7.8	A		N	1				
8.5	10.0	H		K=H	1				



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[[table]]									
1900 No. A.G.C 1900 R.A. 1900 Dec. Magn. C.D.M. R.A. Dec. Magn									
3 48.5	-46.6	4326	3 48.7	-46 27	8				
3 39.0	-46.3	4119	3 39.0	-46 16	6.7				
5 43.1	-36.3	6803	5 43.2	-36 16	7.0				
5 57.5	-36.5	7161	5 57.7	-36 28	7.8				
6 1.0	-36.7		6 0.3	-36 26	31	6 0.3	-36 38.7	7.8	ZC
6 3.5	-36.4	7341	6 4.1	-36 18	7.2				
6 8.3	-36.5	7442	6 7.9	-36 23	8.5				
6 9.4	-36.6	7482	6 9.3	-36 36	8.2				
6 20.7	-36.7	7800	6 20.6	-36 40	6.6	[[10]]			
5 52.3	-37.2	7011	5 52.1	-37 8	5.4				
5 57.5	-37.2	7160	5 57.7	-37 5	7				
5 59.5	-36.9	7213	5 59.7	-36 52	6.9				
6 3.6	-37.2	7336	6 3.9	-37 11	7.8				
6 13.6	-37.2	7609	6 13.8	-37 12	6.4				
6 20.4	-37.2	7793	6 20.3	-36 58	7.2				
5 45.7	-37.3	6865	5 46.0	-37 13	8				
5 49.5	-37.7	6926	5 48.9	-37 44	8.2				
5 51.0	-37.6	6962	5 50.5	-37 33	7.5				
5 59.6	-37.6	7212	5 59.7	-37 33	7.0				
6 13.5	-37.8	7606	6 13.6	-37 42	5.8				
5 52.4	-38.3	7025	5 52.7	-38 18	8.8				
6 5.6	-38.2	4379	6 5.5	-38 3	8.2				
6 23.7	-37.9	7889	6 23.7	-37 50	6.8				
5 44.5	-38.4	6820	5 44.0	-38 16	8				
5 50.0	-38.7	6938	5 49.4	-38 33	7.1				
[[/table]]									

177									
1900 No. A.G.C 1900 R.A. 1900 Dec. Magn. C.D.M. R.A. Dec. Magn									
3 48.5	-46.6	4326	3 48.7	-46 27	8				
3 39.0	-46.3	4119	3 39.0	-46 16	6.7				
5 43.1	-36.3	6803	5 43.2	-36 16	7.0				
5 57.5	-36.5	7161	5 57.7	-36 28	7.8				
6 1.0	-36.7		6 0.3	-36 26	31	6 0.3	-36 38.7	7.8	ZC
6 3.5	-36.4	7341	6 4.1	-36 18	7.2				
6 8.3	-36.5	7442	6 7.9	-36 23	8.5				
6 9.4	-36.6	7482	6 9.3	-36 36	8.2				
6 20.7	-36.7	7800	6 20.6	-36 40	6.6	[[10]]			
5 52.3	-37.2	7011	5 52.1	-37 8	5.4				
5 57.5	-37.2	7160	5 57.7	-37 5	7				
5 59.5	-36.9	7213	5 59.7	-36 52	6.9				
6 3.6	-37.2	7336	6 3.9	-37 11	7.8				
6 13.6	-37.2	7609	6 13.8	-37 12	6.4				
6 20.4	-37.2	7793	6 20.3	-36 58	7.2				
5 45.7	-37.3	6865	5 46.0	-37 13	8				
5 49.5	-37.7	6926	5 48.9	-37 44	8.2				
5 51.0	-37.6	6962	5 50.5	-37 33	7.5				
5 59.6	-37.6	7212	5 59.7	-37 33	7.0				
6 13.5	-37.8	7606	6 13.6	-37 42	5.8				
5 52.4	-38.3	7025	5 52.7	-38 18	8.8				
6 5.6	-38.2	4379	6 5.5	-38 3	8.2				
6 23.7	-37.9	7889	6 23.7	-37 50	6.8				
5 44.5	-38.4	6820	5 44.0	-38 16	8				
5 50.0	-38.7	6938	5 49.4	-38 33	7.1				

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum Plates, Southern Draper Catalogue #61
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 December 4, 1892
 Plate 4658

[[table]]			
V	H	Cl	No Rem K line In T.
9.2	13.7	H	K=H 1
9.7	19.2	A	K=0.3H 3
9.1	20.0	H	N 1
10.4	6.5	A	K=H 2
10.2	7.2	A	K=H 1
10.6	19.2	A	K=H 1
10.2	20.4	H	K=H 4
11.2	10.9	K	K=H 2
11.8	16.7	Gal	N 2
11.8	22.3	A	N 3
12.8	8.4	H	K=H 1
12.6	19.6	A	N 1
13.6	9.9	H	N 1
13.5	12.1	A	N 1
13.6	15.4	A	K=0.2H 3
13.4	16.3	A	K=H 2
13.4	20.1	A	K=H 2
13.3	22.6	A	K=0.3H 2
13.5	23.8	F 889	K=H 3
15.0	7.5	A	K=H 2
14.6	8.3	H	N 1
14.4	15.7	A	N 1
14.5	18.2	A	N 1
14.6	22.7	A	N 2
15.3	10.5	A	N 1
14.8	12.0	H	K=H 1
15.7	15.4	A	K=0.2H 2
15.4	15.9	A	K=0.1H 3
[[/table]]			

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December 4, 1892

Plate 4658

V H Cl No Rem|K line|In T.

9.2 13.7 H K=H 1

9.7 19.2 A K=0.3H 3

9.1 20.0 H N 1

10.4 6.5 A K=H 2

10.2 7.2 A K=H 1

10.6 19.2 A K=H 1

10.2 20.4 H K=H 4

11.2 10.9 K K=H 2

11.8 16.7 Gal N 2

11.8 22.3 A N 3

12.8 8.4 H K=H 1

12.6 19.6 A N 1

13.6 9.9 H N 1

13.5 12.1 A N 1

13.6 15.4 A K=0.2H 3

13.4 16.3 A K=H 2

13.4 20.1 A K=H 2

13.3 22.6 A K=0.3H 2

13.5 23.8 F 889 K=H 3

15.0 7.5 A K=H 2

14.6 8.3 H N 1

14.4 15.7 A N 1

14.5 18.2 A N 1

14.6 22.7 A N 2

15.3 10.5 A N 1

14.8 12.0 H K=H 1

15.7 15.4 A K=0.2H 2

15.4 15.9 A K=0.1H 3

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
 Plates, Southern Draper Catalogue #61
 Transcribed and Reviewed by Digital Volunteers
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[[preprinted]]179 [[/preprinted]]

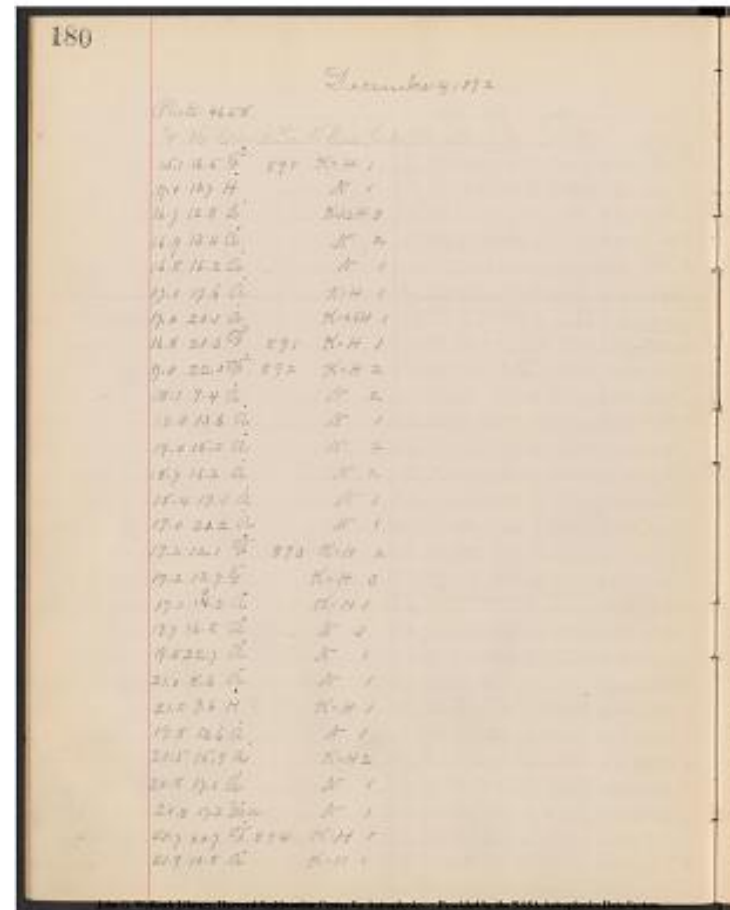
1900 No. A.G.C 1900 R.A 1902 Dec. Magn. C. D. M. R.A. Dec. Magn.									
5 ^h 58.9 ^m -38.9 ^s	7186	5 ^h 58.7 ^m -38.9 ^s	7186	5 ^h 58.7 ^m -38.9 ^s	7186	5 ^h 58.7 ^m -38.9 ^s	7186	5 ^h 58.7 ^m -38.9 ^s	7186
6 13.4 -19.2	7598	6 13.3 -19.13	6.4						
6 15.5 -38.9	7653	6 15.2 -38.51	7.2						
5 40.3 -39.5	6736	5 40.2 -39.27	6.6						
5 42.1 -39.4	6776	5 42.1 -39.21	7.2						
6 13.5 -39.6	7604	6 13.5 -39.35	8						
6 16.6 -39.5	7688	6 16.5 -39.27	7.8						
5 51.5 -39.9	6996	5 51.6 -39.59	5.8						
6 7.0 -40.4	7416	6 6.9 -40.20	6.0						
6 21.5 -40.3	7824	6 21.5 -40.14	6.5						
5 45.0 -40.7	6841	5 44.8 -40.41	6.8						
6 14.4 -40.7	7624	6 14.5 -40.37	7.2						
5 49.0 -41.2	6923	5 48.7 -41.8	7.2						
5 54.0 -41.1	7081	5 54.4 -41.7	8.2						
6 3.3 -41.2	7327	6 3.5 -41.12	7.0						
6 5.6 -41.2	7375	6 5.3 -41.15	8.2						
6 15.6 -41.1	7669	6 15.9 -41.2	7.8						
6 22.5 -41.0	7855	6 22.6 -40.55	7.5						
6 25.5 -41.1	7931	6 25.5 -41.1	6.5						
5 41.7 -41.9	6775	5 42.0 -41.59	7						
5 44.6 -41.7	6831	5 44.4 -41.37	7.2						
6 4.0 -41.6	7347	6 4.3 -41.33	7.5						
6 11.0 -41.7	7541	6 11.1 -41.38	8						
6 23.0 -41.6	7868	6 23.0 -41.35	7.5						
5 50.0 -41.9	6956	5 50.2 -41.59	8						
5 53.6 -41.7	7068	5 54.0 -41.46	7.2						
6 3.5 -42.3	7332	6 3.6 -42.17	6.8						
6 4.7 -42.2	7359	6 4.8 -42.8	5.8						

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum Plates, Southern Draper Catalogue #61
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180
December 4, 1892
Plate 4658

[[table]]				
V	H	Cl	No Rem	K Line

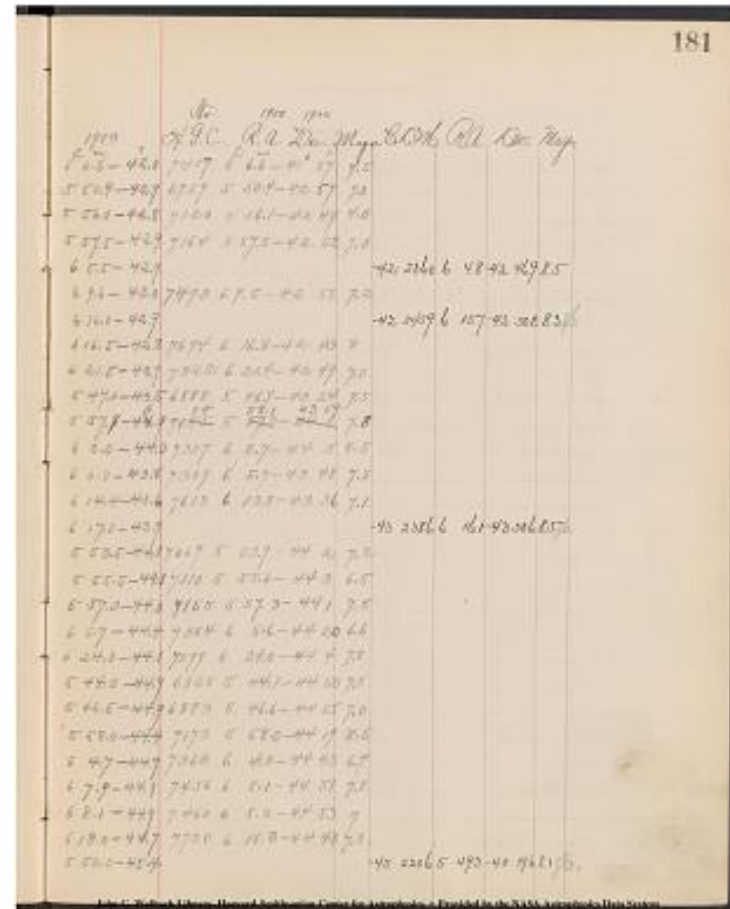
15.1	16.5	F	890	K=H 1
17.0	10.7	H		N 1
16.7	12.8	L		K=1.2H 3
16.9	13.4	A		N 2
16.8	16.2	A		N 1
17.0	17.6	A		K=H 1
17.0	20.1	A		K=0.5H 1
16.8	20.3	F	891	K=H 1
17.0	22.0	F	892	K=H 2
18.1	9.4	A		N 2
19.0	13.6	A		N 1
19.0	15.2	A		N 2
18.7	16.2	A		N 2
18.4	19.1	A		N 1
19.0	20.2	A		N 1
19.2	12.1	F	893	K=H 2
19.2	12.7	G		K=H 3
19.1	1	[[strikethrough]]	4	[[strikethrough]] 3.3 A K=H 1
19.7	16.2	A		N 3
19.5	22.7	A		N 1
21.0	8.6	A		N 1
21.0	9.6	H		K=H 1
19.8	13.6	A		K=H 2
20.5	15.9	A		N 1
20.8	17.1	A		N 1
20.8	17.2	Ma		N 1
20.7	20.7	F	894	K=H 1
21.9	10.8	A		K=H 1
[[/table]]				



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
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[[table]]
 1900 | No. A.G.C. | 1900 RA | 1900 Dec | Magn. | No. C.D.M. | RA | Dec
 Magn.]

 6^h[[h]]6.5^m[[m]] -42.0[[symbol - degree symbol]]7489|6^h[[h]]6.6^m[[m]]-
 41[[symbol - degree symbol]]57^s7.5 | | | | |
 5 50.4 -42.9|6959|5 50.4|-42 54|7.0 | | | | |
 5 56.0 -42.8|7120|5 56.1|-42 49|4.0 | | | | |
 5 57.5 -42.9|7164|5 57.8|-42 53|7.0 | | | | |
 6 5.5 -42.9 | | | -42 2360|6 4.8|-42 46.9|8.5?|
 6 9.6 -43.0|7493|6 9.5|-42 58|7.2 | | | | |
 6 16.0 -42.9-42 2459|6 15.7|-42 50.0|8.2?| | | | |
 6 16.5 -42.8|7694|6 16.8|-42 43|8 | | | | |
 6 21.5 -42.9|7822|6 21.4|-42 49|7.0 | | | | |
 5 47.0 -43.5|6888|5 46.9|-43 24|7.5 | | | | |
 5 57.7|[[/strikethrough]] 44.0 [[/strikethrough]] 44.3|
 5|[[/strikethrough]] 57.3|-44 1 [[/strikethrough]] 58.1|-43 54|7.8 | | | | |
 6 3.0 -44.0|7307|6 2.7|-44 5|8.5 | | | | |
 6 6.0 -43.8|4389|6 5.7|-43 48|9.8 | | | | |
 6 14.4 -43.6|7613|6 13.8|-43 36|7.1 | | | | |
 6 17.0 -43.9 | | | -43 2386|6 16.1|-43 50.6|8.5?|
 5 53.5 -44.1|7069|5 53.9|-44 2|7.2 | | | | |
 5 55.5 -44.1|4110|5 55.6|-44 3|6.5 | | | | |
 5 57.0 -44.0|7155|5 57.3|-44 1|7.5 | | | | |
 6 5.7 -44.4|4384|6 5.6|-44 20|6.6 | | | | |
 6 24.0 -44.1|7899|6 24.0|-44 4|7.8 | | | | |
 5 44.0 -44.9|6828|5 44.1|-44 50|7.8 | | | | |
 5 46.5 -44.9|6883|5 46.6|-44 55|7.0 | | | | |
 5 58.0 -44.4|7173|5 58.0|-44 19|8.5 | | | | |
 6 4.7 -44.4|7363|6 4.8|-44 43|6.7 | | | | |
 6 7.9 -44.9|7456|6 8.1|-44 51|7.8 | | | | |
 6 8.1 -44.9|7460|6 8.3|-44 53|7 | | | | |
 6 18.3 -44.7|7730|6 18.3|-44 43|7.8 | | | | |
 5 50.0 -45.4 | | | -45 2306|5 49.5|-45 19.6.6|8.5?|



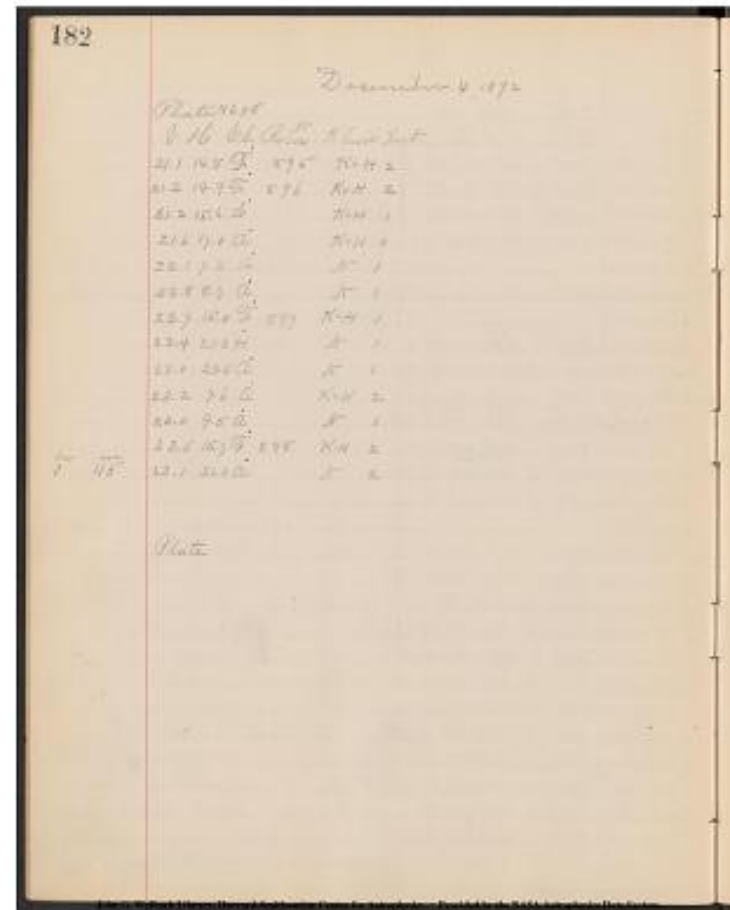
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
 Plates, Southern Draper Catalogue #61
 Transcribed and Reviewed by Digital Volunteers
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182

December 4, 1892
Plate 4658

[[table]]									
V	H	Cl.	Rem.	^	[[No.]]		K line		Int.
21.1	14.8	F	895		K=H		2		
21.2	14.9	F	896		K=H		2		
21.2	15.6	L			K=H		1		
21.6	17.0	A			K=H		3		
22.1	7.2	A			N		1		
22.8	8.7	A			N		1		
22.7	15.4	F	897		K=H		1		
22.4	21.3	H			N		1		
23.0	23.4	A			N		1		
23.2	7.6	A			K=H		2		
24.0	9.5	A			N		1		
23.5	15.7	F	898		K=H		2		
23.1	21.0	A			N		2		
[[/table]]									

0^[[h]] 45^[[m]]
Plate



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
Extracted Nov-17-2023 02:05:05

183
No. 1400 1900

[[table]]									
1900	No. A.G.C.	1900 RA	1900 Dec	Magn.	No. C.D.M.	RA	Dec	Magn.	
---	---	---	---	---	---	---	---	---	
6 ^h 1 ^m 1.5 ^s [[m]]			-45.0 [°] [[symbol - degree symbol]]	7266	6 ^h 1 ^m 1.6 ^s [[m]]				
45 [°] 2 ['] 5.8 ["] [[symbol - degree symbol]]									
6 1.7	-45.1	7268	6 1.6	-45 11	7.5				
6 4.2	-45.1	7346	6 4.1	-45 5	7.0				
6 7.7	-45.3	7444	6 7.8	-45 15	6.5				
5 39.9	-45.2	6732	5 39.9	-45 17	7.5				
5 44.0	-4.5	6829	5 44.1	-45 41	7.2				
6 3.4	-45.8	7324	6 3.3	-45 48	8				
6 20.3	-45.6	7788	6 20.1	-45 35	6.8				
6 26.4	-45.9	7951	6 26.0	-45 43	7.5				
5 40.7	-45.9	6756	5 40.8	-45 52	6.7				
5 46.0	-46.3	6870	5 46.1	-46 21	8				
6 4.3	-46.3	7350	6 4.2	-46 11	7.0				
6 19.6	-45.9	7773	6 19.6	-45 55	6.8				
[[/table]]									

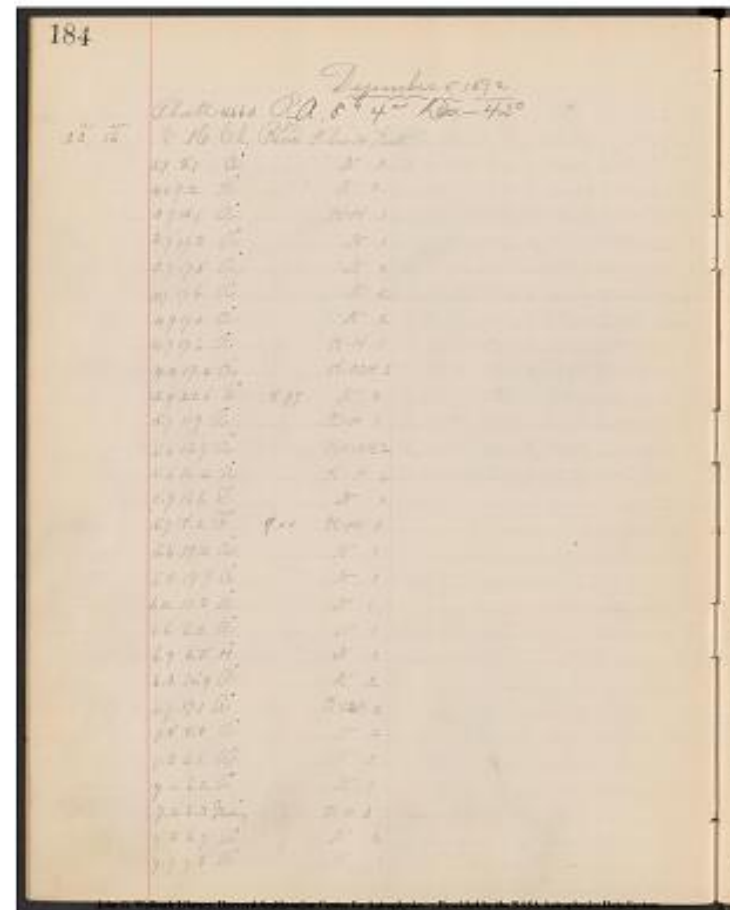
Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
Extracted Nov-17-2023 02:05:05

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December 5, 1892
Plate 4660 R.A. 8^h 4^m Dec.-42

23^h 16^m

[[table]]				
V	H	Cl.	No.	Rem K line Int
3.9	8.1	A	N 1	
4.0	9.2	K	N 2	
3.9	13.1	A	K=H 1	
3.7	17.3	A	N 1	
3.7	17.5	A	N 2	
3.7	17.6	A	N 2	
4.9	17.0	A	N 2	
4.9	17.6	A	K=H 1	
4.2	19.4	A	K=0.3H 3	
3.9	20.5	B	899 N 2	
5.7	11.9	A	K=H 1	
5.6	12.7	A	K=0.4H 2	
5.5	16.4	A	K=H 2	
5.7	16.6	Q	N 1	
5.7	18.2	F	900 K=H 1	
5.6	19.2	A	N 1	
5.8	19.9	A	N 1	
6.2	11.3	A	N 1	
6.6	6.3	A	N 1	
6.9	6.8	H	N 1	
6.3	15.4	A	N 2	
6.7	17.1	A	K=0.2H 2	
7.8	5.8	A	N 2	
7.3	6.1	A	N 3	
7.2	6.2	A	N 1	
7.2	6.3	Ma?	K=H 3	
7.2	6.7	A	N 2	
7.7	7.8	A	N 1	
[[/table]]				



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
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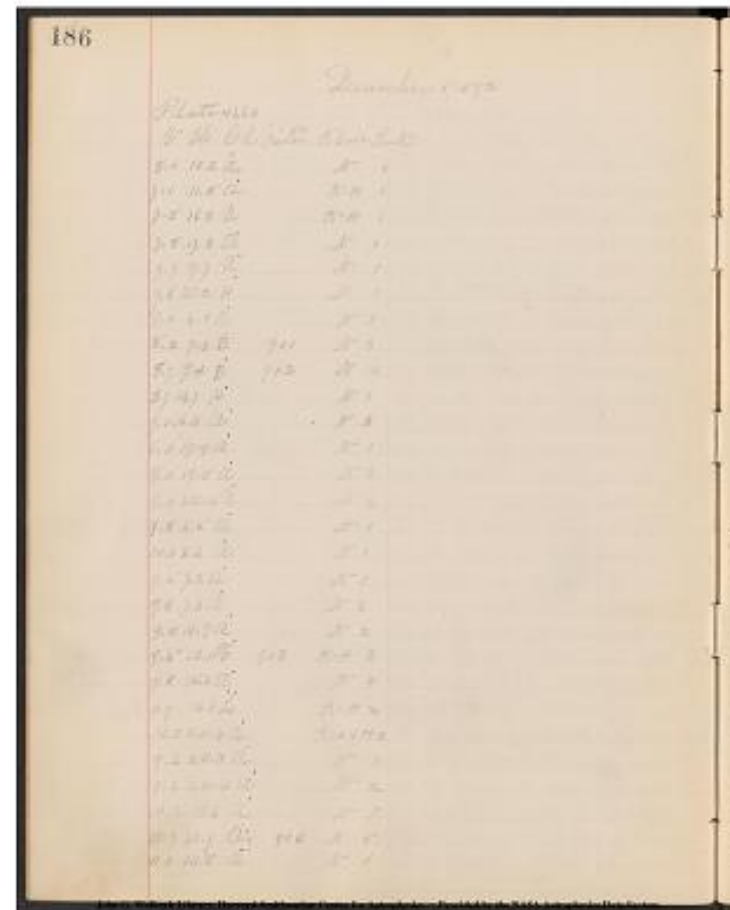
[[table]]									
1900	No. A.G.C	1900 R.A.	1900 Dec.	Magn.	C.D.M.	R.A.	Dec.	Magn.	
7 46.5	-36.2	10285	7 46.7	-36 0	7.8				
7 49.4	-36.2	10357	7 49.4	-36 6	6.0				
7 58.7	-36.1	10652	7 58.9	-36 7	7.0				
8 9.5	-36.0	10955	8 9.5	-36 2	7.8				
8 9.9	-36.0	10960	8 9.6	-36 0	7.8				
8 10.0	-36.0	10973	8 10.2	-36 1	5.9				
8 10.0	-36.0	10974	8 10.2	-36 2	7.0				
8 8.6	-36.7	10931	8 8.7	-36 4	7.2				
8 10.4	-36.7	10980	8 10.3	-36 3	7.5				
8 14.9	-36.4	11111	8 14.8	-36 2	14.7				
8 17.5	-36.3	11194	8 17.5	-36 1	5.9				
7 55.5	-37.0	10542	7 55.8	-37 2	7.8				
7 57.5	-37.1	10626	7 58.0	-37 0	6.6				
8 7.4	-36.9	10884	8 7.3	-36 5	6.8				
8 8.0	-37.1	10899	8 7.7	-37 7	9.8				
8 11.9	-37.1	11020	8 11.7	-37 3	9.2				
8 11.9	-37.1	11021	8 11.7	-37 3	7.2				
8 14.5	-37.1	11106	8 14.5	-37 4	7.0				
8 16.2	-37.1	11147	8 16.0	-37 7	7.5				
7 54.2	-37.4	10504	7 54.4	-37 1	7.8				
7 41.6	-37.3	10123	7 41.9	-37 2	6.8				
7 43.0	-37.6	10165	7 43.0	-37 3	7.2				
8 4.9	-37.4	10811	8 4.9	-37 2	6.7				
8 9.4	-37.7	10945	8 9.2	-37 3	6.8				
7 40.3	-37.9	10053	7 40.2	-37 5	7.1				
7 41.0	-37.8	10088	7 41.0	-37 4	6.8				
7 41.4	-37.7	10096	7 41.2	-37 4	7.8				
7 41.5	-37.8	10095	7 41.2	-37 5	8.5				
7 42.5	-37.7	10145	7 42.6	-37 4	6.6				
7 45.0	-38.0	10239	7 45.3	-37 5	7.2				
[[/table]]									

185									
1900	No. A.G.C	1900 R.A.	1900 Dec.	Magn.	C.D.M.	R.A.	Dec.	Magn.	
7 46.5	-36.2	10285	7 46.7	-36 0	7.8				
7 49.4	-36.2	10357	7 49.4	-36 6	6.0				
7 58.7	-36.1	10652	7 58.9	-36 7	7.0				
8 9.5	-36.0	10955	8 9.5	-36 2	7.8				
8 9.9	-36.0	10960	8 9.6	-36 0	7.8				
8 10.0	-36.0	10973	8 10.2	-36 1	5.9				
8 10.0	-36.0	10974	8 10.2	-36 2	7.0				
8 8.6	-36.7	10931	8 8.7	-36 4	7.2				
8 10.4	-36.7	10980	8 10.3	-36 3	7.5				
8 14.9	-36.4	11111	8 14.8	-36 2	14.7				
8 17.5	-36.3	11194	8 17.5	-36 1	5.9				
7 55.5	-37.0	10542	7 55.8	-37 2	7.8				
7 57.5	-37.1	10626	7 58.0	-37 0	6.6				
8 7.4	-36.9	10884	8 7.3	-36 5	6.8				
8 8.0	-37.1	10899	8 7.7	-37 7	9.8				
8 11.9	-37.1	11020	8 11.7	-37 3	9.2				
8 11.9	-37.1	11021	8 11.7	-37 3	7.2				
8 14.5	-37.1	11106	8 14.5	-37 4	7.0				
8 16.2	-37.1	11147	8 16.0	-37 7	7.5				
7 54.2	-37.4	10504	7 54.4	-37 1	7.8				
7 41.6	-37.3	10123	7 41.9	-37 2	6.8				
7 43.0	-37.6	10165	7 43.0	-37 3	7.2				
8 4.9	-37.4	10811	8 4.9	-37 2	6.7				
8 9.4	-37.7	10945	8 9.2	-37 3	6.8				
7 40.3	-37.9	10053	7 40.2	-37 5	7.1				
7 41.0	-37.8	10088	7 41.0	-37 4	6.8				
7 41.4	-37.7	10096	7 41.2	-37 4	7.8				
7 41.5	-37.8	10095	7 41.2	-37 5	8.5				
7 42.5	-37.7	10145	7 42.6	-37 4	6.6				
7 45.0	-38.0	10239	7 45.3	-37 5	7.2				

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
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186
December 5, 1982
Plate 4660

[[table]]				
V	H	CL	Rem No.	K Line Int
8.0	10.2	A	N 1	
7.1	11.8	A	K=H 1	
7.5	16.3	A	K=H 1	
7.8	17.3	A	N 1	
7.9	17.7	A	N 1	
7.5	21.2	H	N 1	
9.0	6.0	A	N 1	
8.2	7.3	B	901 N 3	
8.7	9.4	B	902 N 4	
8.7	14.7	H	N 1	
9.0	16.4	A	N 2	
8.3	19.4	A	N 1	
9.0	19.5	A	N 2	
9.0	22.4	A	N 2	
9.8	5.5	A	N 1	
10.0	6.6	A	N 1	
9.5	7.3	A	N 1	
9.8	7.3	A	N 3	
9.8	11.9	A	N 2	
9.5	12.1	F	903 K=H 3	
9.8	15.5	A	N 2	
9.9	16.6	L	K=H 2	
10.0	20.4	A	K=0.4H 3	
9.2	24.3	A	N 1	
9.2	24.4	A	N 2	
10.2	11.6	A	N 1	
10.7	13.7	A?	904 N 5	
11.0	14.8	A	N 1	
[[/table]]				

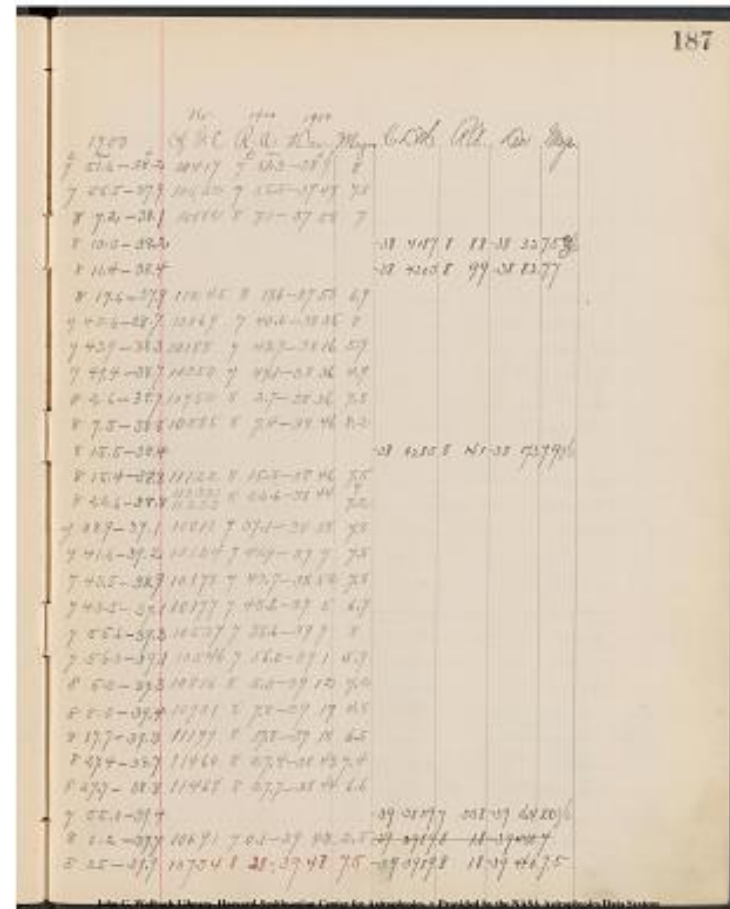


Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
Extracted Nov-17-2023 02:05:05

[[table]]

1900 | No. A.G.C | 1900 R.A. | 1900 Dec. | Magn. | C.D.M. | R.A. | Dec.
| Magn

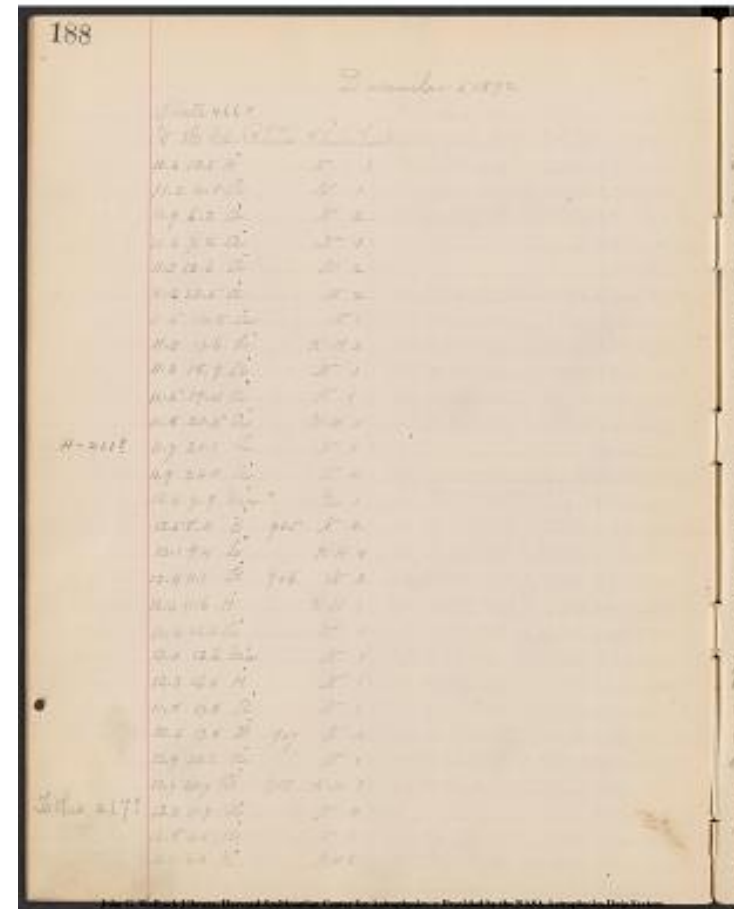
7 51.6	-38.2	10417	7 51.3	-38 9 8					
7 55.5	-37.9	10532	7 55.5	-37 47 7.8					
8 7.2	-38.1	10882	8 7.1	-37 58 7					
8 10.0	-38.2			-38 4187 8 8.8	-38 3.2	7.5			
8 11.4	-38.4			-38 4205 8 9.9	-38 8.2	7.7			
8 19.6	-37.9	11245	8 19.6	-37 58 6.9					
7 40.6	-38.7	10069	7 40.6	-38 35 8					
7 43.9	-38.3	10188	7 43.9	-38 16 5.9					
7 49.4	-38.7	10350	7 49.1	-38 36 4.9					
8 2.6	-38.7	10752	8 2.7	-38 36 7.8					
8 7.5	-38.8	10885	8 7.4	-38 46 8.2					
8 15.5	-38.4			-38 4285 8 14.1	-38 17.3	7.9			
8 15.4	-38.8	11122	8 15.3	-38 46 7.5					
8 22.6	-38.8	11332	8 22.6	-38 44 7					
7 38.9	-39.1	11333	7 39.1	-38 58 7.2					
7 38.9	-39.1	10018	7 39.1	-38 58 7.8					
7 41.6	-39.2	10124	7 41.9	-39 7 7.8					
7 43.5	-39.1	10177	7 43.6	-39 5 6.9					
7 55.6	-39.3	10537	7 55.6	-39 9 8					
7 56.0	-39.1	10546	7 56.0	-39 1 5.9					
8 5.0	-39.3	10816	8 5.0	-39 12 7.2					
8 8.0	-39.4	10901	8 7.8	-39 19 4.8					
8 17.7	-39.3	11199	8 17.8	-39 18 6.5					
8 27.4	-38.7	11560	8 27.4	-38 43 7.4					
8 27.7	-38.8	11468	8 27.7	-38 44 6.6					
7 55.0	-39.4			-39 3839 7 53.8	-39 16.6	8.0ZC			
8 0.2	-39.7	10691	7 0.1	-39 43 2.5	[[strikethrough]]	-39 3989 8 1.8	-39 44.0	7	[[strikethrough]]
8 3.5	-39.9	10754	8 2.8	-39 48 7.5	-39 3989 8 1.8	-39 44.0	7.5		



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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December 5, 1892
Plate 4660

[[table]]					
V	H	Cl.	Rem. No.	K line	Int
10.3	18.5	H		N	1
11.2	6.0	A		N	1
11.9	6.2	A		N	2
11.3	7.2	A		N	3
11.3	12.6	A		N	2
11.3	13.5	A		N	2
11.5	14.8	A		N	1
11.3	17.6	L		K=H	3
11.3	18.9	A		N	1
11.5	19.4	A		N	1
11.8	20.5	A		K=H	1
^[[H=21.1 ?]] 11.7 20.1 A N 1					
11.9	24.0	A		N	2
12.4	7.9	Ma		[?]	1
12.5	8.3	B	905	N	2
12.1	9.4	L		K=h	4
12.4	11.1	B	906	N	2
12.4	11.6	H		K=H	1
12.4	12.3	A		N	1
13.0	13.6	Ma		N	1
12.3	16.5	H		N	1
11.8	17.8	A		N	1
12.3	17.8	B	907	N	2
12.9	20.2	A		N	1
12.7	20.7	F	908	K=H	1
^[[Is this 21.7 ?]] 12.3 11.7 A N 2					
13.5	5.5	A		N	1
13.1	6.3	K		K=H	3



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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[[table]]										
1900 Dec	No. A.G.C.	1900 RA	1900 Dec	Magn.	No. C.D.M.	RA	Dec	Magn.		
8 13.0	-39.5	11050	8 12.8	-39 26	7.5					
7 40.1	-39.7	10061	7 40.4	-39 39	8.2					
7 40.1	-39.7	10062	7 40.4	-39 38	9.2					
7 40.4	-40.1	10064	7 40.4	-40 51	7.0					
7 42.8	-39.9	10169	7 43.1	-39 49	7.0					
7 57.2	-40.1	10596	7 57.2	-39 55	7.8					
7 59.6	-40.1	10673	7 59.5	-40 7	7.8					
8 3.0	-40.3	10756	8 3.0	-23 42	8.2					
8 10.5	-40.1	10984	8 10.5	-40 3	4.8					
8 14.0	-40.0	11080	8 13.7	-39 56	8.2					
8 15.5	-40.2	11117	8 15.1	-40 1	8.2					
8 18.0	-40.2	11206	8 17.9	-40 12	8.8					
8 19.6	-40.2	11244	8 19.6	-40 4	7.5					
8 26.6	-40.3	11447	8 27.0	-40 11	7.2					
8 26.6	-40.3	11449	8 27.0	-40 10	7.8					
7 45.0	-40.4	10220	7 44.8	-40 24	var					
7 45.6	-40.5	10256	7 45.9	-40 27	7.0					
7 48.6	-40.4	10343	7 48.8	-40 19	4.0					
7 53.0	-40.5	10465	7 53.0	-40 28	7.0					
7 54.5	-40.5	10506	7 54.5	-40 31	7.2					
7 59.4	-40.9	10667	7 59.3	-41 1	8.8					
7 59.4	-40.9	10668	7 59.3	-41 2	6.2					
8 7.6	-40.5	10895	8 7.6	-40 27	7.0					
8 10.9	-40.3			-40 40	12	8 10.0	-40 7.9	8.3		
8 11.0	-40.6	10999	8 11.0	-40 31	6.9					
8 17.0	-40.8			-40 41	20	8 16.4	-40 40.8	7.7		
8 18.5	-40.8	11225	8 18.6	-40 41	7.7					
7 53.9	-40.7	11292	8 21.0	-40 26.7	8	-40 42	12	8 20.1	-40 20.7	7.3
7 38.0	-41.0	9984	7 38.0	-40 55	8					
7 40.3	-40.8	10060	7 40.2	-40 42	5.8					

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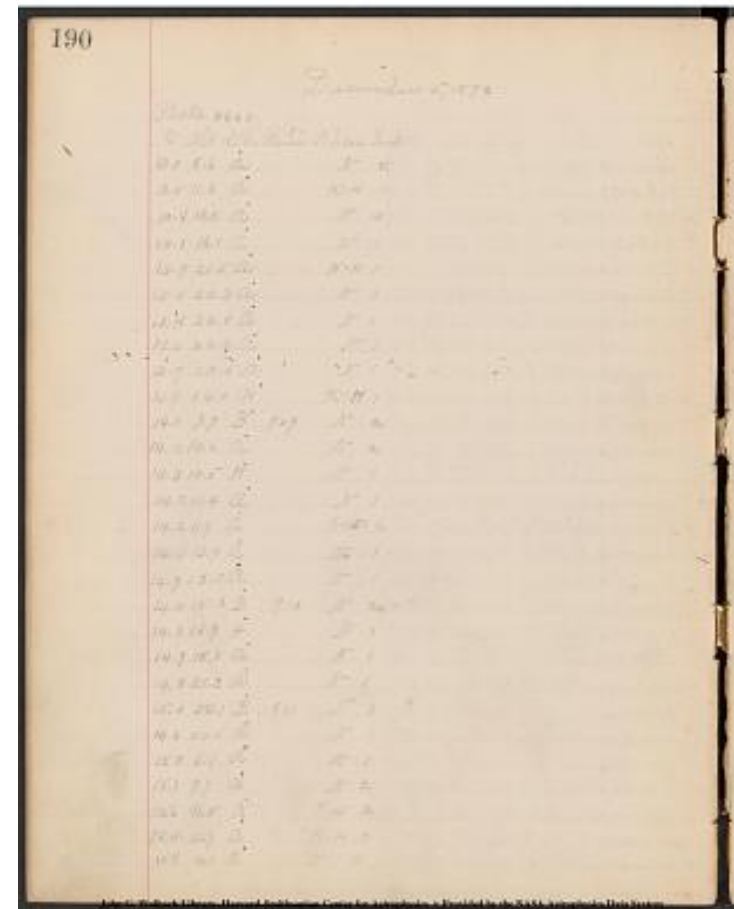
	1900	No. A.G.C.	1900 RA	1900 Dec	Magn.	No. C.D.M.	RA	Dec	Magn.	
8 13.0	-39.5	11050	8 12.8	-39 26	7.5					
7 40.1	-39.7	10061	7 40.4	-39 39	8.2					
7 40.1	-39.7	10062	7 40.4	-39 38	9.2					
7 40.4	-40.1	10064	7 40.4	-40 51	7.0					
7 42.8	-39.9	10169	7 43.1	-39 49	7.0					
7 57.2	-40.1	10596	7 57.2	-39 55	7.8					
7 59.6	-40.1	10673	7 59.5	-40 7	7.8					
8 3.0	-40.3	10756	8 3.0	-23 42	8.2					
8 10.5	-40.1	10984	8 10.5	-40 3	4.8					
8 14.0	-40.0	11080	8 13.7	-39 56	8.2					
8 15.5	-40.2	11117	8 15.1	-40 1	8.2					
8 18.0	-40.2	11206	8 17.9	-40 12	8.8					
8 19.6	-40.2	11244	8 19.6	-40 4	7.5					
8 26.6	-40.3	11447	8 27.0	-40 11	7.2					
8 26.6	-40.3	11449	8 27.0	-40 10	7.8					
7 45.0	-40.4	10220	7 44.8	-40 24	var					
7 45.6	-40.5	10256	7 45.9	-40 27	7.0					
7 48.6	-40.4	10343	7 48.8	-40 19	4.0					
7 53.0	-40.5	10465	7 53.0	-40 28	7.0					
7 54.5	-40.5	10506	7 54.5	-40 31	7.2					
7 59.4	-40.9	10667	7 59.3	-41 1	8.8					
7 59.4	-40.9	10668	7 59.3	-41 2	6.2					
8 7.6	-40.5	10895	8 7.6	-40 27	7.0					
8 10.9	-40.3			-40 40	12	8 10.0	-40 7.9	8.3		
8 11.0	-40.6	10999	8 11.0	-40 31	6.9					
8 17.0	-40.8			-40 41	20	8 16.4	-40 40.8	7.7		
8 18.5	-40.8	11225	8 18.6	-40 41	7.7					
7 53.9	-40.7	11292	8 21.0	-40 26.7	8	-40 42	12	8 20.1	-40 20.7	7.3
7 38.0	-41.0	9984	7 38.0	-40 55	8					
7 40.3	-40.8	10060	7 40.2	-40 42	5.8					

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Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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December 5, 1892
Plate 4660

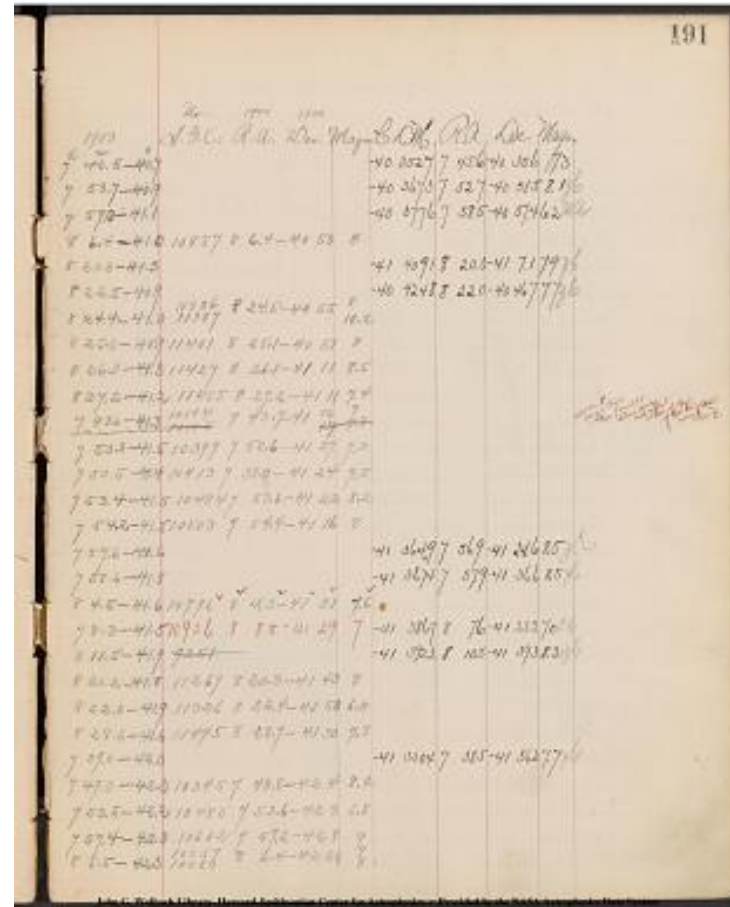
[[table]]				
V	H	Cl.	No Rem.	K line Int.
13.0	8.6	A		N 2
13.4	11.3	A		K=H 1
13.4	13.4	A		N 3
13.1	16.1	A		N 1
13.9	21.5	A		K=H 1
13.3	22.3	A		N 1
13.4	23.0	A		N 1
13.2	23.2	A		N 1
13.9	23.5	A		N 1
13.9	24.0	H		K=H 1
14.1	7.7	B909	N 2	
14.3	10.2	A		N 2
14.3	10.5	H		N 1
14.2	11.4	A		N 1
14.2	11.7	A		K=0.5H 2
14.4	12.9	A		N 1
14.7	13.3	A		N 1
14.4	15.3	B910	N 2	
14.3	16.9	H		N 1
14.9	18.0	A		N 1
14.8	21.3	A		N 1
15.0	22.1	B911	N 3	
14.6	24.5	A		N 1
15.8	6.1	A		N 1
15.7	9.7	A		N 2
15.6	11.5	K		K=H 2
15.4	12.7	A		K=H 2
15.9	16.1	A		N 2
[[/table]]				



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
Transcribed and Reviewed by Digital Volunteers
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[[table]]									
1900 No. A.G.C. 1900 RA 1900 Dec Magn. No. C.D.M. RA Dec Magn.									
7 46.5 -40.7				-40 3527	7 45.6	-40 35.6	7.3		
7 53.7 -40.9				-40 3673	7 52.7	-40 51.5	8.1ZC		
7 59.0 -41.1				-40 3776	7 58.5	-40 57.4	6.2WA		
8 6.4 -41.0	10857	8 6.4	-40 58	8					
8 20.6 -41.3				-41 4091	8 20.0	-41 7.1	7.9ZC		
8 22.5 -40.9				-40 4248	8 22.0	-40 46.7	7.7ZC		
8 24.4 -41.0	11386	8 24.5	-40 55	8					
8 24.4 -41.0	11387	8 24.5	-40 55	10.2					
8 25.0 -40.9	11401	8 25.1	-40 51	8					
8 26.0 -41.3	11427	8 26.1	-41 11	8.5					
8 27.2 -41.2	11455	8 27.2	-41 11	7.4					
[[underlined]] 7 43.6 -41.3 [[/underlined]] [[/strikethrough]]									
10185 [[/strikethrough]] ^[[10184]] 7 43.7 -41 [[/strikethrough]]									
17 [[/strikethrough]] ^[[16]] [[/strikethrough]] 7.8 [[/strikethrough]] [[7]]									
^[[Mrs. F says that fainter star does not affect class of spect. of the brighter which is class B.]]									
7 50.3 -41.5	10399	7 50.6	-41 27	7.2					
7 50.5 -41.4	10413	7 51.0	-41 24	7.5					
7 53.3 -41.5	10484	7 53.6	-41 22	8.2					
7 54.2 -41.5	10503	7 54.4	-41 16	8					
7 57.6 -41.6			-41 3649	7 56.9	-41 24.6	8.5ZC			
7 58.6 -41.8			-41 3674	7 57.9	-41 36.6	8.5ZC			
8 4.5 -41.6	10796	8 4.3	-41 31	7.6					
7 8.3 -41.5	10926	8 8.5	-41 29	7	-41 3867	8 7.6	-41 25.2	7.0GC	
8 11.5 -41.9	[[/strikethrough]] 9251	[[/strikethrough]]						-41 3922	8
10.5	-41 39.3	8.2ZC							
8 20.2 -41.8	11269	8 20.3	-41 43	8					
8 22.0 -41.9	11326	8 22.4	-31 50	6.0					
8 28.6 -41.6	11495	8 28.7	-41 30	7.8					
7 39.0 -42.0			-41 3304	7 38.5	-41 56.2	7.7ZC			
7 49.0 -42.0	10345	7 48.8	-42 4	8.2					
7 53.5 -42.2	10485	7 53.6	-42 8	6.8					
7 57.4 -42.0	10602	7 57.2	-42 8	9					
8 6.5 -42.3	10859	8 6.4	-42 20	7					
8 6.5 -42.3	10860	8 6.4	-42 20	7					

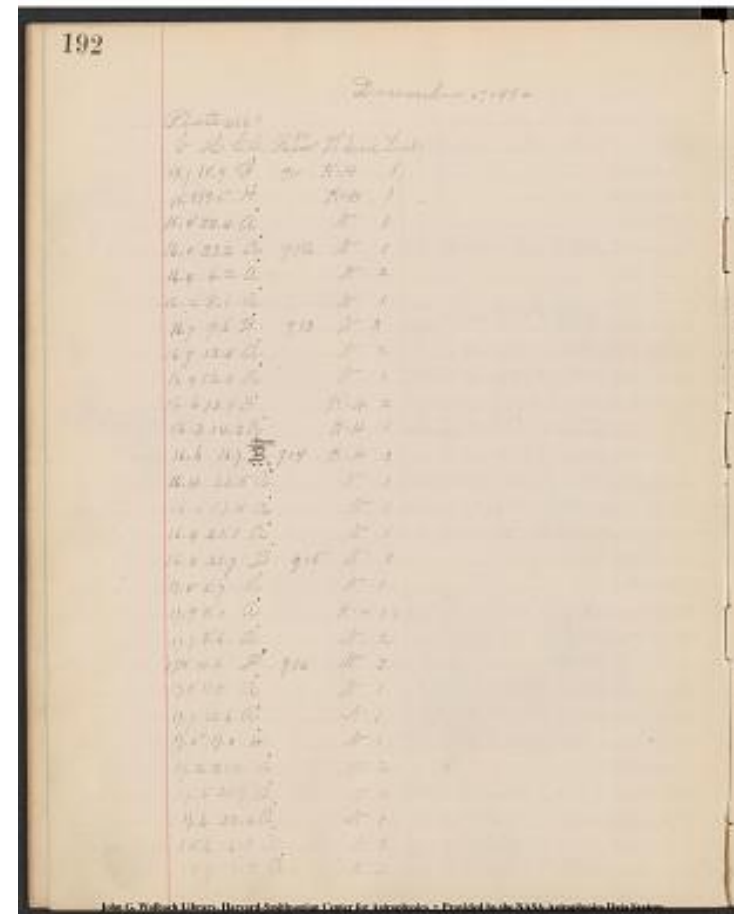
[[/table]]



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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December 5, 1982
Plate 466°

[[table]]				
V	H	Cl.	No Rem.	K line Int.
15.7	18.9	F	911	K=H 1
15.8	19.5	H		K=H 1
15.8	22.4	A	N1	
16.0	23.2	A	912	N1
16.4	6.2	A	N2	
16.2	8.1	A	N1	
16.7	9.6	B	913	N3
16.9	13.0	A	N2	
16.4	13.4	A	N1	
16.6	13.9	I	K=H 2	
16.3	14.3	A	K=H 1	
16.6	16.4	[[/strikethrough]] D [[/strikethrough]] B		
914		K=H 3		
16.4	20.5	A	N1	
16.2	17.4	A	N1	
16.4	21.1	A	N1	
16.3	21.4	B	915	N3
17.8	5.7	A	N1	
17.9	8.0	A	K=H 1	
17.7	8.6	A	N2	
17.8	11.6	B	916	N3
17.8	11.8	A	N1	
17.5	12.6	A	N1	
17.5	17.0	H	N1	
17.2	21.0	A	N2	
17.5	21.7	A	N1	
17.6	23.4	A	N1	
18.6	6.0	A	N2	
18.7	7.4	A	N3	



Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]									
1900 No. A.G.C. 1900 RA 1900 Dec. Magn. C.D.M. RA Dec.									
Magn.									
8 ^h 13.9 ^m 42.3 ^s	11087	8 ^h 13.9 ^m 42.3 ^s	13.9 ^m 42.3 ^s	13.9 ^m 42.3 ^s	13.9 ^m 42.3 ^s	13.9 ^m 42.3 ^s	13.9 ^m 42.3 ^s	13.9 ^m 42.3 ^s	13.9 ^m 42.3 ^s
8 15.1 -42.3	11128	8 15.5 -42 13	7.5						
8 23.0 -42.3	11354	8 23.2 -42 12	8						
8 25.4 -42.3	11411	8 25.4 -42 15	6.8						
7 39.4 -42.3	10029	7 39.4 -42 20	7.8						
7 44.9 -42.3		7 44.0 -42 11	6.3	ZC					
7 48.5 -42.7	10334	7 48.4 -42 38	6.6						
7 57.4 -42.9		7 56.7 -42 42	9	8.3	ZC				
7 58.5 -42.6		7 57.9 -42 25	5	8.7					
8 0.3 -42.7	10695	8 0.1 -42 40	7.0						
8 1.0 -42.7	10714	8 1.1 -42 28	8						
8 7.9 -42.7	10913	8 8.0 -42 41	5.4						
8 18.0 -42.6	11216	8 18.3 -42 31	8.2						
8 10.0 -42.5		8 9.1 -42 19	5	8.6	ZC				
8 19.9 -42.6	11256	8 19.8 -42 40	8.5						
8 21.5 -42.5	11303	8 21.5 -42 27	6.5						
7 37.7 -43.0	9980	7 37.7 -42 57	7.8						
7 44.1 -43.1	10190	7 43.9 -43 6	7.8						
7 45.6 -43.1	10253	7 45.6 -43 4	8.2						
[[underlined]] 7 53.5 -43.2 [[/underlined]] [[strikethrough]] 10492									
[[strikethrough]] 53.8-13									
7 54.5 -43.2		7 53.7 -43 14	6						
7 56.5 -43.2		7 53.6 -43 9	9.2	ZC					
8 8.5 -43.2	10934	8 8.7 -43 6	7.3						
8 19.0 -43.0	11247	8 19.6 -42 55	7.2						
8 21.5 -43.2		8 20.8 -42 57	5	8.2					
8 26.0 -43.1		8 25.3 -42 54	9	8.3					
7 38.1 -43.5	9994	7 38.2 -43 24	7						
7 42.0 -43.6	10133	7 42.1 -43 31	6.5						
[[/table]]									

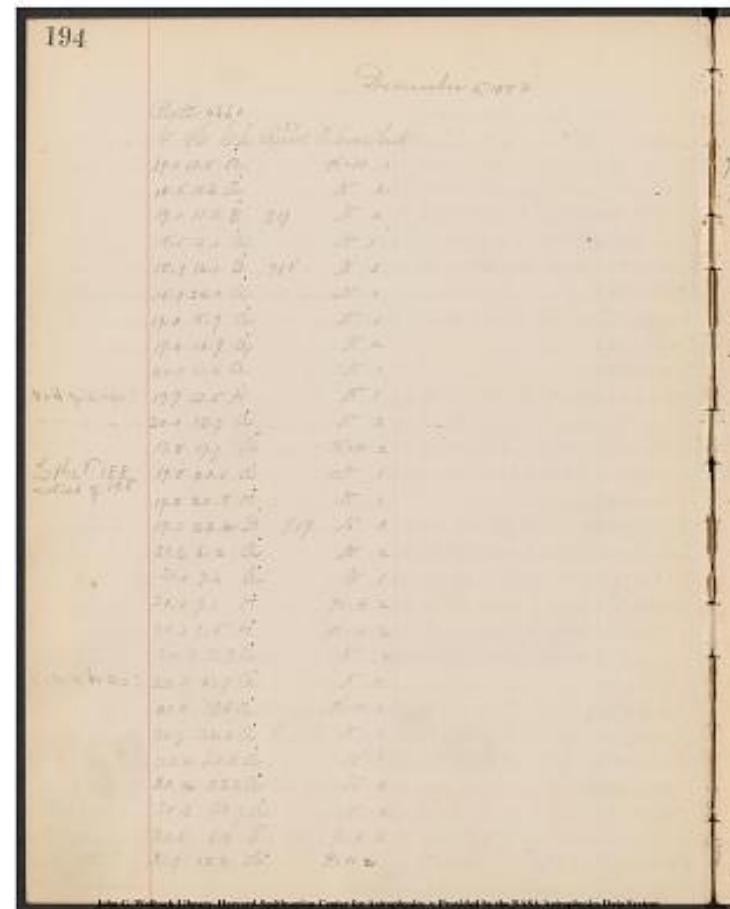
193									
No. RA Dec. Magn. C.D.M. RA Dec. Magn.									
11087	8 13.9	42.3	13.9	42.3	13.9	42.3	13.9	42.3	13.9
11128	8 15.5	42 13	7.5						
11354	8 23.2	42 12	8						
11411	8 25.4	42 15	6.8						
10029	7 39.4	42 20	7.8						
	7 44.0	42 11	6.3	ZC					
10334	7 48.4	42 38	6.6						
	7 56.7	42 42	9	8.3	ZC				
	7 57.9	42 25	5	8.7					
10695	8 0.1	42 40	7.0						
10714	8 1.1	42 28	8						
10913	8 8.0	42 41	5.4						
11216	8 18.3	42 31	8.2						
	8 9.1	42 19	5	8.6	ZC				
11256	8 19.8	42 40	8.5						
11303	8 21.5	42 27	6.5						
9980	7 37.7	42 57	7.8						
10190	7 43.9	43 6	7.8						
10253	7 45.6	43 4	8.2						
[[underlined]] 7 53.5 -43.2 [[/underlined]] [[strikethrough]] 10492									
[[strikethrough]] 53.8-13									
	7 53.7	43 14	6						
	7 53.6	43 9	9.2	ZC					
10934	8 8.7	43 6	7.3						
11247	8 19.6	42 55	7.2						
	8 20.8	42 57	5	8.2					
	8 25.3	42 54	9	8.3					
9994	7 38.2	43 24	7						
10133	7 42.1	43 31	6.5						

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Plates, Southern Draper Catalogue #61
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Plate 4660

[[6 column table]]
V	H	Cl.	Rem No.	K line	Int
19.0|10.5|A| |K=H|1|
18.5|11.2|A| |N|2|
19.0|11.8|B|917|N|3|
18.5|13.0|A| |N|1|
18.9|16.1|B|918|N|3|
18.9|22.0|A| |N|1|
19.3|8.9|A| |N|1|
19.6|10.9|A| |N|2|
20.0|11.4|A| |N|1|
^[[VoH quite right?]]19.9|13.5|H| |N|1|
^[[VoH quite right?]]20.0|13.7|A| |N|2|
19.8|17.7|A| |K=H|2|
^[[To the V 18.8 instead of 19.8]] 19.8|20.1|A| |N|1|
19.2|20.8|H| |N|1|
19.1|23.3|B|919|N|3|
20.6|6.2|A| |N|2|
21.0|7.6|A| |N|1|
20.5|9.1|H| |K=H|2|
20.1|9.5|H| |K=H|2|
20.8|12.9|A| |N|2|
^[[V=20.8 ? or 21.0?]] 20.0|14.9|A| |N|2|
20.8|19.5|A| |K=H|1|
20.5|20.4|A| |N|1|
20.4|20.8|A| |N|1|
20.3|23.7|A| |N|2|
21.5|6.8|I| |K=H|3|
21.9|12.2|L| |K=H|2|

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[[table]]

1900 | No. A.G.C. | 1900 RA | 1900 Dec | Magn. | No.
C.D.M. | RA | Dec | Magn. |

7^[[h]]	50.5^[[m]]	-43.7^[[h]]	10401	7^[[h]]	50.7^[[m]]	-43° 44' 8"				
7 52.5	-43.6	10454	7 52.5	-43 35	6.7					
7 54.4	-43.9	10496	7 54.1	-43 50	5.7					
7 57.5	-43.6			-43 3835	7 56.7	-43 28.2	9.0			
8 6.5	-43.9	10856	8 6.3	-43 49	5.9					
7 22.5	-43.8			-43 4276	8 21.7	-43 37.0	8.9			
7 46.0	-43.9			-43 3614	7 45.2	-43 46.4	8.4			
[[/underlined]] 7 51.5 [[/underlined]] [[/underlined]] -44.1 [[/underlined]]										
10425	7 51.5	-44 6	7.1							
7 51.5	-44.1	10426	7 51.6	-44 7	7.4					
7 52.7	-44.4	10460	7 52.7	-44 21	8					
7 59.5	-44.4	10666	7 59.2	-44 23	7.0					
7 59.4	-44.3			-44 3980	7 58.4	-44 19.2	7.0			
8 10.7	-44.3	10997	8 10.8	-44 16	7.2					
8 16.5	-43.9	11188	8 17.2	-43 57	7.8					
7 19.0	-43.9			-43 4223	8 18.4	-43 47.2	8.5			
7 25.6	-43.9			-43 4337	8 24.9	-43 44.7	6.4			
7 38.3	-44.4	9996	7 38.2	-44 23	6.9					
7 42.1	-44.7	10140	7 42.3	-44 39	8					
7 46.2	-44.5	10273	7 46.3	-44 30	6.9					
7 47.5	-44.3	10310	7 47.5	-44 20	6.9					
7 56.7	-44.8	10583	7 56.9	-44 45	8					
8 2.4	-44.9	10748	8 2.5	-44 58	7.2					
8 16.0	-44.7	11136	8 15.6	-44 44	8.5					
8 16.0	-44.7	11137	8 15.6	-44 44	9					
8 17.9	-44.7	11214	8 18.1	-44 41	8.2					
8 19.0	-44.6	11241	8 19.3	-44 33	7.5					
8 26.0	-44.4	11428	8 26.0	-44 23	8					
8 26.0	-44.4	11429	8 26.0	-44 23	6.2					
8 27.1	-44.5	11459	8 27.2	-44 24	6.9					
7 39.6	-44.9	10042	7 39.9	-44 55	5.6					
7 54.7	-45.3	10516	7 54.7	-45 18	5.6					

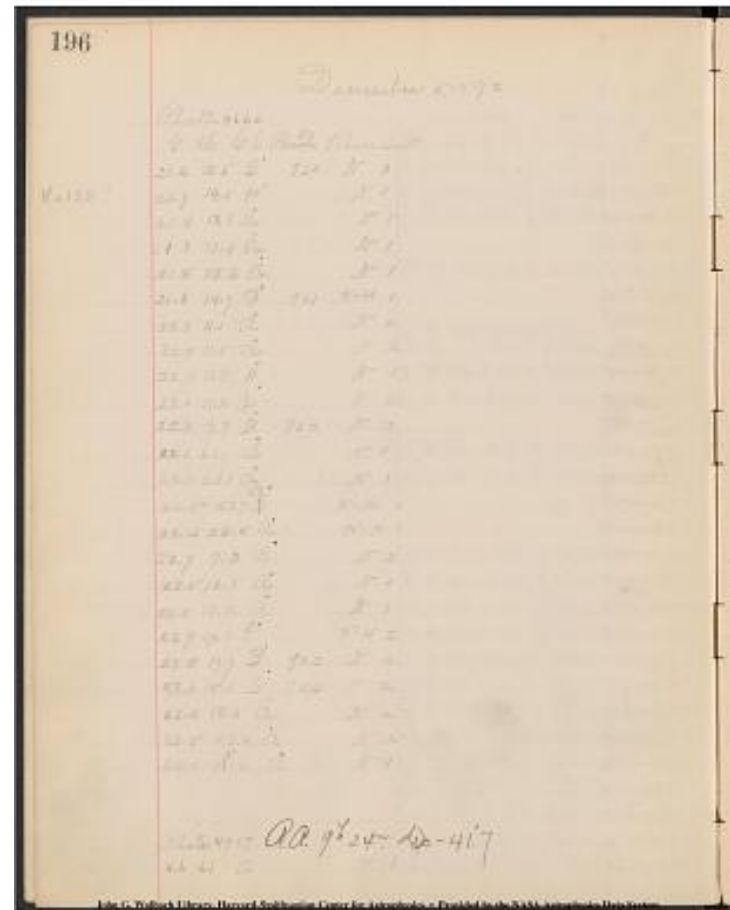
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Plates, Southern Draper Catalogue #61
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December 5, 1892
Plate 4660

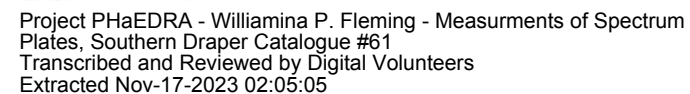
[[table]]			
V	H	Cl.	[No Rem. K line Int.]
21.2	12.5	B	920 N 3
21.4	13.1	A	N 1
21.3	13.4	A	N 1
21.8	13.6	A	N 1
21.6	14.7	F	921 K=H 1
22.3	11.1	A	N 2
22.8	11.5	A	N 2
22.3	16.8	H	N 1
23.0	17.2	A	N 2
22.3	17.9	H	922 N 3
22.1	21.1	A	N 1
22.0	23.1	A	N 1
22.5	23.9	E	K=H 1
22.4	24.4	A	K=H 1
23.7	9.3	A	N 3
23.5	12.1	A	N 1
24.0	12.2	A	N 1
23.9	17.1	G	K=H 2
23.8	17.7	B	923 N 2
23.6	18.0	B	924 N 2
23.3	18.4	A	N 2
23.5	23.2	A	N 2
24.0	15.4		15.4 A N 1
[[/table]]			

Plate 4957 R.A. 9^{h} 24^{m} Dec -41.7°

[[table]]			
V	H	Cl.	[No Rem. K line Int.]
4.6	6.1	A	N 1
[[/table]]			

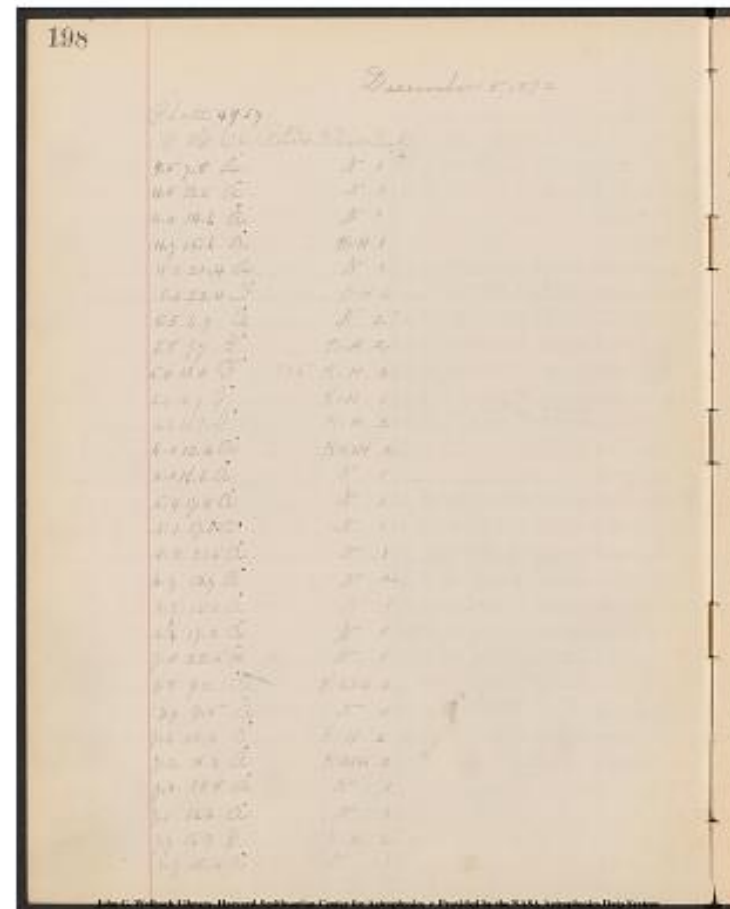


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Plate 4957

[[table]]				
V H Cl.	No Rem.	K line	Int.	
4.5 7.8 A		N 1		
4.5 13.5 A		N 1		
4.3 14.6 A		N 1		
4.7 15.6 A		K=H 1		
4.8 20.4 A		N 1		
5.0 23.4 I		K=H 2		
5.5 6.9 A		N 2		
5.8 9.7 G		K=H 2		
5.4 10.0 F 925		K=H 3		
5.4 10.7 G		K=H 1		
5.6 11.9 I		K=H 2		
6.0 13.2 A		K=0.2H 2		
5.0 16.6 A		N 1		
5.4 17.4 A		N 1		
5.1 17.5 A		N 1		
5.8 21.5 A		N 1		
6.7 13.7 A		N 2		
6.9 15.0 A		N 1		
[[strikethrough]] 6.6 [[/strikethrough]] 6.7 17.2 A N 1				
7.0 22.5 H		N 1		
7.8 9.2 A		K=0.2H 3		
7.7 9.5 A		N 1		
7.6 10.0 K		K=H 3		
7.2 15.3 A		K=0.5H 3		
7.3 15.8 A		N 1		
7.1 16.6 A		N 1		
7.7 16.9 G		K=H 2		
7.9 18.4 A		N 1		



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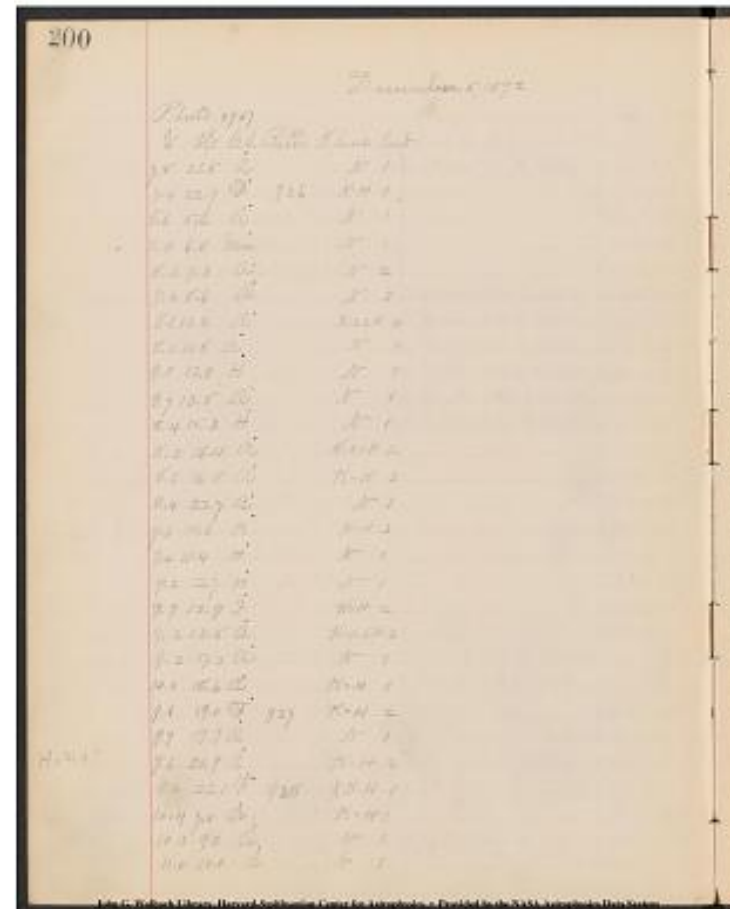
[[table]]														
1900 No. A.G.C. 1900 RA 1900 Dec Magn. No. C.D.M. RA Dec Magn.														
9^	[[h]]	6.1	[[m]]	-36.5	12467	9^	[[h]]	5.7	[[m]]	-36° 35' 8.8				
9	20.6	-36.6			-36 5642	9	19.5	-36 24.4	8.0					
9	23.4	-36.4			-36 5682	9	22.3	-36 20.0	7.3					
9	26.1	-36.7			-36 5723	9	25.1	-36 32.3	8.3					
9	38.0	-36.7			-36 5886	9	36.8	-36 30.4	7.8					
9	45.2	-36.8	13397	9	45.2	-36 43	6.4							
9	4.0	-37.0	12429	9	4.2	-36 57	8.5							
9	10.9	-37.2	12600	9	11.0	-37 11	6.6							
9	11.9	-37.0	12620	9	11.8	-37 0	5.1							
9	13.7	-37.0	12656	9	14.0	-36 58	7.5							
9	16.6	-37.2	12715	9	16.5	-37 9	6.7							
9	16.9	-37.3			-37 5721	9	18.7	-37 13.4	6.9UA					
9	28.9	-36.8			-36 5757	9	27.6	-36 40.1	8.0ZC					
9	30.4	-37.0			-36 5787	9	29.4	-36 51.5	8.3ZC					
9	30.9	-36.9			-36 5790	9	29.7	-36 41.5	8.5					
9	40.7	-37.1			-36 5915	9	39.7	-36 58.9	8.5ZC^	[[Mrs. F said to take lower of two stars upper one superposed.]]				
9	21.0	-37.7			-37 5748	9	20.1	-37 32.8	8.0					
9	24.4	-37.8			-37 5803	9	23.3	-37 40.5	7.7ZC					
9	30.6	-37.7			-37 5884	9	29.2	-37 31.8	8.5ZC					
9	44.0	-38.0	13356	9	43.4	-37 44	7.5	-37 6073	9	42.4	-37 36.4	7.2GC		
9	9.5	-38.2	12560	9	9.5	-38 12	7							
9	10.4	-38.2			-38 5388	9	9.4	-38 1.0	8.6ZC					
9	11.5	-38.2	12617	9	11.7	-38 9	5.5							
9	25.5	-37.9	12939	9	25.2	-37 57	6.6							
9	26.5	-37.9	12979	9	26.5	-37 55	9.2							
9	28.5	-37.9			-37 5858	9	27.4	-37 46.0	8.0ZC					
9	29.5	-38.1	13049	9	29.2	-38 12	7.5							
9	33.5	-38.2			-38 5736	9	32.1	-38 8.4	8.6ZC					

199														
1900 No. A.G.C. 1900 RA 1900 Dec Magn. No. C.D.M. RA Dec Magn.														
9^	[[h]]	6.1	[[m]]	-36.5	12467	9^	[[h]]	5.7	[[m]]	-36° 35' 8.8				
9	20.6	-36.6			-36 5642	9	19.5	-36 24.4	8.0					
9	23.4	-36.4			-36 5682	9	22.3	-36 20.0	7.3					
9	26.1	-36.7			-36 5723	9	25.1	-36 32.3	8.3					
9	38.0	-36.7			-36 5886	9	36.8	-36 30.4	7.8					
9	45.2	-36.8	13397	9	45.2	-36 43	6.4							
9	4.0	-37.0	12429	9	4.2	-36 57	8.5							
9	10.9	-37.2	12600	9	11.0	-37 11	6.6							
9	11.9	-37.0	12620	9	11.8	-37 0	5.1							
9	13.7	-37.0	12656	9	14.0	-36 58	7.5							
9	16.6	-37.2	12715	9	16.5	-37 9	6.7							
9	16.9	-37.3			-37 5721	9	18.7	-37 13.4	6.9UA					
9	28.9	-36.8			-36 5757	9	27.6	-36 40.1	8.0ZC					
9	30.4	-37.0			-36 5787	9	29.4	-36 51.5	8.3ZC					
9	30.9	-36.9			-36 5790	9	29.7	-36 41.5	8.5					
9	40.7	-37.1			-36 5915	9	39.7	-36 58.9	8.5ZC^	[[Mrs. F said to take lower of two stars upper one superposed.]]				
9	21.0	-37.7			-37 5748	9	20.1	-37 32.8	8.0					
9	24.4	-37.8			-37 5803	9	23.3	-37 40.5	7.7ZC					
9	30.6	-37.7			-37 5884	9	29.2	-37 31.8	8.5ZC					
9	44.0	-38.0	13356	9	43.4	-37 44	7.5	-37 6073	9	42.4	-37 36.4	7.2GC		
9	9.5	-38.2	12560	9	9.5	-38 12	7							
9	10.4	-38.2			-38 5388	9	9.4	-38 1.0	8.6ZC					
9	11.5	-38.2	12617	9	11.7	-38 9	5.5							
9	25.5	-37.9	12939	9	25.2	-37 57	6.6							
9	26.5	-37.9	12979	9	26.5	-37 55	9.2							
9	28.5	-37.9			-37 5858	9	27.4	-37 46.0	8.0ZC					
9	29.5	-38.1	13049	9	29.2	-38 12	7.5							
9	33.5	-38.2			-38 5736	9	32.1	-38 8.4	8.6ZC					

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[[table]]				
V	H	Cl.	No. Rem.	K line Int.
7.8	21.5	A	N 1	
7.4	22.7	F 926	K=H 1	
8.6	5.6	A	N 1	
8.4	6.8	Ma	N 1	
8.3	7.3	A	N 2	
9.0	8.6	A	N 3	
8.6	11.2	A	K=0.2H 3	
8.3	11.5	A	N 1	
9.0	12.8	H	N 1	
8.7	13.5	A	N 1	
8.4	15.3	H	N 1	
8.3	16.4	A	K=0.2H 2	
8.6	16.8	A	K=H 3	
8.4	23.7	A	N 1	
9.3	10.6	K	K=H 3	
9.4	11.4	H	N 1	
9.2	12.7	H	N 1	
9.9	12.9	H	K=H 2	
9.2	13.5	A	K=0.5H 3	
9.3	17.3	A	N 1	
10.0	18.6	A	K=H 1	
9.6	19.0	F 927	K=H 2	
9.9	19.9	A	N 1	
9.2	22.1	F 928	9 K=H 1	
10.4	7.0	A	K=H 1	
10.3	9.3	A	N 1	
11.0	10.0	A	N 1	



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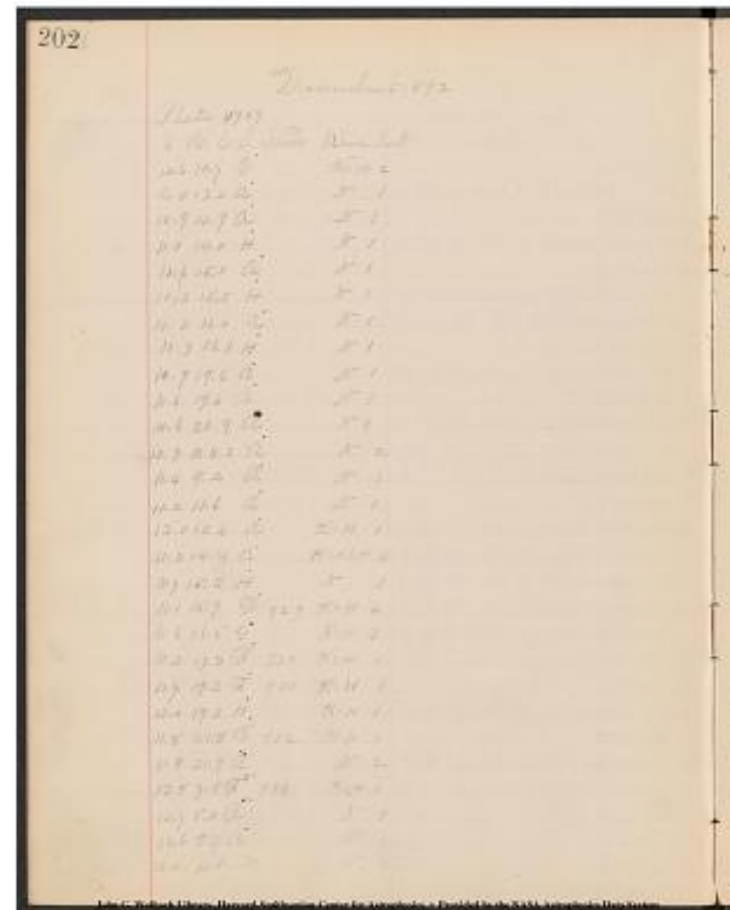
[[table]]									
1900	No. A.G.C.	1900 RA	1900 Dec	Magn.	No. C.D.M.	RA	Dec	Magn.	
9 ^h 40 ^m 40.9 ^s									
9 44.0 -38.0	13365	9 43.8	-37 54	7.5					
9 0.5 -38.7									
9 3.5 -38.5	12412	9 3.4	-38 25	8.5					
9 4.9 -38.6									
9 7.8 -38.9	12519	9 7.8	-38 51	6.7					
9 14.5 -38.7	12670	9 14.6	-38 37	7.5					
9 15.4 -38.5									
9 18.6 -38.9	12757	9 18.4	-38 57	7.5					
9 20.5 -38.7									
9 25.3 -38.6	12931	9 25.1	-38 34	7.5					
9 28.5 -38.6	13020	9 28.0	-38 30	8.2					
9 29.5 -38.7	13044	9 29.1	-38 42	6.8					
9 46.9 -38.4									
9 13.0 -38.9	12640	9 13.1	-38 59	5.8					
9 15.0 -39.0	12677	9 15.0	-39 0	8.5					
9 18.4 -39.0	12764	9 18.5	-38 53	8					
9 18.5 -39.4	12770	9 18.7	-39 21	7.2					
9 20.4 -38.9	12820	9 20.3	-38 59	6.5					
9 30.6 -39.0									
9 33.6 -39.4									
9 34.7 -39.2	13166	9 34.6	-39 10	7					
9 37.1 -39.4									
9 40.3 -39.2	13276	9 40.2	-39 7	7					
9 43.0 -39.0	13333	9 42.7	-38 52	7.8					
9 3.7 -39.5									
9 9.5 -39.5									
9 11.1 -39.9									

201									
1900	No. A.G.C.	1900 RA	1900 Dec	Magn.	No. C.D.M.	RA	Dec	Magn.	
9 44.0 -38.0	13365	9 43.8	-37 54	7.5					
9 0.5 -38.7									
9 3.5 -38.5	12412	9 3.4	-38 25	8.5					
9 4.9 -38.6									
9 7.8 -38.9	12519	9 7.8	-38 51	6.7					
9 14.5 -38.7	12670	9 14.6	-38 37	7.5					
9 15.4 -38.5									
9 18.6 -38.9	12757	9 18.4	-38 57	7.5					
9 20.5 -38.7									
9 25.3 -38.6	12931	9 25.1	-38 34	7.5					
9 28.5 -38.6	13020	9 28.0	-38 30	8.2					
9 29.5 -38.7	13044	9 29.1	-38 42	6.8					
9 46.9 -38.4									
9 13.0 -38.9	12640	9 13.1	-38 59	5.8					
9 15.0 -39.0	12677	9 15.0	-39 0	8.5					
9 18.4 -39.0	12764	9 18.5	-38 53	8					
9 18.5 -39.4	12770	9 18.7	-39 21	7.2					
9 20.4 -38.9	12820	9 20.3	-38 59	6.5					
9 30.6 -39.0									
9 33.6 -39.4									
9 34.7 -39.2	13166	9 34.6	-39 10	7					
9 37.1 -39.4									
9 40.3 -39.2	13276	9 40.2	-39 7	7					
9 43.0 -39.0	13333	9 42.7	-38 52	7.8					
9 3.7 -39.5									
9 9.5 -39.5									
9 11.1 -39.9									

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[[table]]				
V	H	Cl	Rem no.	K line Int
10.6	10.7	G	K=H 2	
11.0	13.2	A	N 1	
10.9	13.9	A	N 1	
11.0	14.0	H	N 1	
10.6	15.0	A	N 1	
10.3	15.5	H	N 1	
10.3	16.0	A	N 1	
10.9	16.1	H	N 1	
10.9	19.2	A	N 1	
10.6	19.6	A	N 1	
10.6	20.9	A	N 1	
10.9	23.3	A	N 2	
11.4	9.2	A	N 1	
11.2	11.6	A	N 1	
12.0	12.6	A	K=H 1	
11.3	14.4	A	K=0.6H 3	
11.7	15.2	H	N 1	
11.1	15.9	F 929	K=H 4	
11.6	16.5	G	K=H 3	
11.3	17.3	F 930	K=H 1	
11.7	19.2	F 931	K=H 1	
12.0	19.3	H	K=H 1	
11.8	21.8	F 932	K=H 1	
11.8	21.9	A	N 2	
12.8	7.5	F 933	K=H 1	
12.7	8.0	A	N 1	
12.6	8.9	A	N 1	
13.0	10.8	A	N 2	



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[[table]]									
1900 No. A.G.C. 1900 RA 1900 Dec Magn. No. C.D.M. RA Dec Magn.									
----- ----- ----- ----- ----- ----- ----- ----- ----- -----									
9 ^h 13.0 ^m 39.7 ^s	12642	9 ^h 13.1 ^m 39.42 ^s	7						
9 19.5 -39.9									
9 21.5 -39.8	12842	9 21.7 -39.53							
39 5491	9 20.5 -39 41.2	7.5							
9 21.9 -39.9	12842	9 21.7 -39 53	7.5						
9 24.5 -39.7									
9 25.5 -39.6									
9 27.0 -39.6									
9 27.5 -39.9									
9 35.2 -39.9									
on B15754. Other star superposed]]									
9 36.2 -39.8									
9 40.0 -39.8									
9 46.1 -39.9	13410	9 45.9 -39 42	7.8						
9 9.4 -40.1									
9 15.9 -40.0	12697	9 15.7 -40 8	8.5						
9 18.4 -40.4									
9 22.7 -40.1	12865	9 22.6 -40 4	6.8						
9 25.0 -40.3									
9 26.7 -40.1	12989	9 26.8 -40 1	3.7						
9 28.3 -40.3	13028	9 28.4 -40 13	6						
9 30.4 -40.1	13081	9 30.5 -40 2	7.8						
9 35.5 -40.3									
9 36.0 -40.5									
9 42.4 -40.3	13319	9 42.1 -40 11	8						
9 42.6 -40.4	13329	9 42.5 -40 13	8						
9 6.1 -40.8									
9 8.5 -40.8									
9 13.4 -41.0	12646	9 13.2 -40 54	7.8						

*-39 5712 9^h 34.3 -39 39.4 9.4 is superposed on DM -39 5711. Dec. of one or both of these stars must be slightly wrong in C.D.M as according to plates B15754 and B4977 (chart) are in same dec.

203									
No. A.G.C. 1900 RA 1900 Dec Magn. No. C.D.M. RA Dec Magn.									
----- ----- ----- ----- ----- ----- ----- ----- ----- -----									
9 ^h 13.0 ^m 39.7 ^s	12642	9 ^h 13.1 ^m 39.42 ^s	7						
9 19.5 -39.9									
9 21.5 -39.8	12842	9 21.7 -39.53							
39 5491	9 20.5 -39 41.2	7.5							
9 21.9 -39.9	12842	9 21.7 -39 53	7.5						
9 24.5 -39.7									
9 25.5 -39.6									
9 27.0 -39.6									
9 27.5 -39.9									
9 35.2 -39.9									
on B15754. Other star superposed]]									
9 36.2 -39.8									
9 40.0 -39.8									
9 46.1 -39.9	13410	9 45.9 -39 42	7.8						
9 9.4 -40.1									
9 15.9 -40.0	12697	9 15.7 -40 8	8.5						
9 18.4 -40.4									
9 22.7 -40.1	12865	9 22.6 -40 4	6.8						
9 25.0 -40.3									
9 26.7 -40.1	12989	9 26.8 -40 1	3.7						
9 28.3 -40.3	13028	9 28.4 -40 13	6						
9 30.4 -40.1	13081	9 30.5 -40 2	7.8						
9 35.5 -40.3									
9 36.0 -40.5									
9 42.4 -40.3	13319	9 42.1 -40 11	8						
9 42.6 -40.4	13329	9 42.5 -40 13	8						
9 6.1 -40.8									
9 8.5 -40.8									
9 13.4 -41.0	12646	9 13.2 -40 54	7.8						

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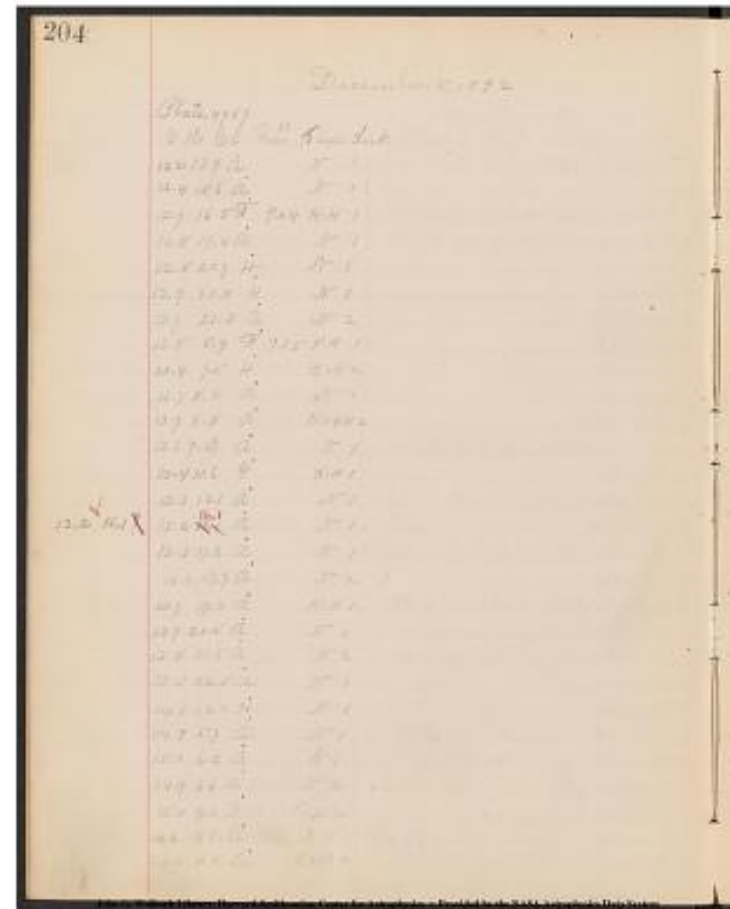
December 5, 1892

Plate 4957

[[table]]

V|H|Cl.|Rem ^[[No.]]|K line|Int.|

12.2	13.9	A		N 1
12.4	15.6	A		N 1
12.7	16.5	F 934		K=H 1
12.8	19.4	A		N 1
12.8	20.7	H		N 1
12.9	20.8	H		N 1
12.7	21.3	A		N 2
13.8	5.9	F 935		K=H 1
13.4	7.5	H		K=H 2
13.7	8.4	A		N 1
13.7	8.8	A		K=0.4H 2
13.6	9.2	A		N 1
13.4	11.6	G		K=H 1
13.3	12.1	A		N 1
^[[13.2 16.1 [[strikethrough]] ?[[strikethrough]]]] 13.2 [[strikethrough]]				
15.1 [[strikethrough]]	16.1	A		N 1
13.3	17.2	A		N 1
13.3	17.7	A		N 2
13.7	19.2	A		K=H 1
13.9	20.5	A		N 1
13.8	21.5	A		N 2
13.4	22.5	A		N 1
14.0	23.2	H		N 1
14.9	5.7	A		N 1
15.0	6.2	A		N 1
14.9	6.6	A		N 2
15.0	9.6	I		K=H 2
14.6	9.9	A		N 1
14.2	10.0	A		K=0.5H 2



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[[table]]									
1900 No. A.G.C. 1900 RA 1900 Dec Magn. No. C.D.M. RA Dec Magn.									
9 21.6-40.5									
9 25.9-40.7									
9 28.4-40.8									
9 36.1-40.9									
9 39.4-40.8	13263	9 39.6	-40 43	9.2					
9 39.9-40.9	13268	9 39.7	-40 47	8					
9 41.0-40.9									
8 59.9-41.1	12361	9 0.1	-41 10	7.8					
9 4.1-41.0	12441	9 4.5	-41 17	5	-40 49	46	9 3.6	-40 55	3
9 6.6-41.2									
9 7.5-41.2									
9 8.7-41.1									
9 15.4-41.0	12684	9 15.3	-41 2	8.8					
9 16.5-41.0									
9 26.7-41.0									
9 30.5-41.1									
9 31.0-41.2									
9 34.7-41.2									
9 38.5-41.3									
9 42.0-41.3									
9 44.5-41.0									
9 46.4-41.3	13421	9 46.3	-41 19	8	-41 53	87	9 45.3	-41 11	1
8 59.1-41.7									
9 0.5-41.8									
9 1.5-41.9	12138	49 1.6	-41 46	8					
9 9.5-41.8	12563	9 9.5	-41 52	6.9					
9 10.1-41.8									
9 10.9-41.6	12596	9 10.7	-41 28	8					
[[/table]]									

*Following star superposed

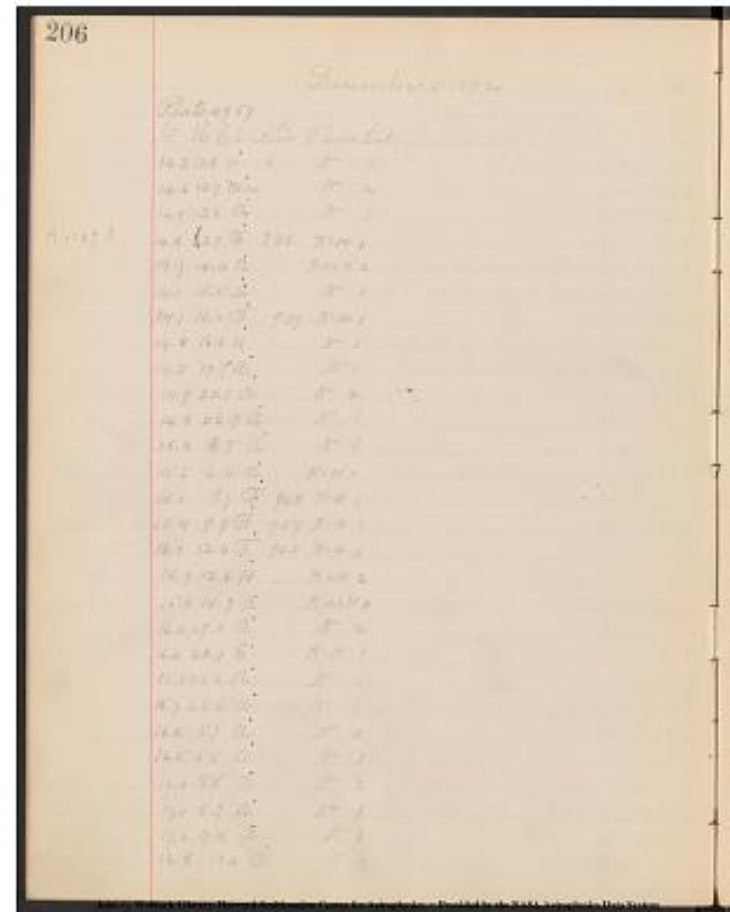
205									
1900 No. A.G.C. 1900 RA 1900 Dec Magn. No. C.D.M. RA Dec Magn.									
9 21.6-40.5									
9 25.9-40.7									
9 28.4-40.8									
9 36.1-40.9									
9 39.4-40.8	13263	9 39.6	-40 43	9.2					
9 39.9-40.9	13268	9 39.7	-40 47	8					
9 41.0-40.9									
8 59.9-41.1	12361	9 0.1	-41 10	7.8					
9 4.1-41.0	12441	9 4.5	-41 17	5	-40 49	46	9 3.6	-40 55	3
9 6.6-41.2									
9 7.5-41.2									
9 8.7-41.1									
9 15.4-41.0	12684	9 15.3	-41 2	8.8					
9 16.5-41.0									
9 26.7-41.0									
9 30.5-41.1									
9 31.0-41.2									
9 34.7-41.2									
9 38.5-41.3									
9 42.0-41.3									
9 44.5-41.0									
9 46.4-41.3	13421	9 46.3	-41 19	8	-41 53	87	9 45.3	-41 11	1
8 59.1-41.7									
9 0.5-41.8									
9 1.5-41.9	12138	49 1.6	-41 46	8					
9 9.5-41.8	12563	9 9.5	-41 52	6.9					
9 10.1-41.8									
9 10.9-41.6	12596	9 10.7	-41 28	8					
[[/table]]									

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
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December 5, 1892
Plate 4957

[[6 column table]]
V	H	C	Rem ^[[No.]]	K line	Int.
14.3|10.8|H|X|N|1|
14.6|12.7|ma|N|2|
14.9|13.4|A|N|1|
^[[H=13.9?]]14.8|~~2~~|13.9|F|936|K=H|1|
14.7|14.4|A|K=0.4H|2|
14.1|15.5|A|N|1|
14.1|16.2|F|937|K=H|1|
14.8|16.6|H|N|1|
14.3|19.9|A|N|1|
14.9|20.1|A|N|2|
14.8|22.9|A|N|1|
15.2|5.9|A|N|1|
15.6|6.4|A|K=H|1|
15.1|9.7|F|938|K=H|1|
15.4|9.9|F|939|K=H|1|
16.0|12.4|F|940|K=H|1|
15.9|12.6|H|K=H|2|
15.4|14.9|A|K=0.2H|3|
16.0|19.0|A|N|2|
16.0|20.7|E|K=H|1|
15.6|22.2|A|N|1|
15.7|23.6|A|N|1|
16.2|5.7|A|N|3|
16.5|5.8|A|N|1|
17.0|8.8|A|N|2|
17.0|8.9|A|N|1|
17.0|9.4|A|N|1|
16.8|10.0|A|N|4|

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Plates, Southern Draper Catalogue #61
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[[table]]									
1900	[No. A.G.C.]	1900 RA	1900 Dec	Magn.	[No. C.D.M.]	[RA]	[Dec]	[Magn.]	
9 13.2	-41.6								
9 18.2	-41.8	12753	9 18.1	-41 46	6.4				
9 20.0	-41.9								
9 21.5	-41.9								
9 23.0	-41.9	12866	9 22.6	-41 49	7.2				
9 25.6	-41.6								
9 27.5	-41.6								
9 28.9	-41.9								
9 36.9	-41.5	13227	9 37.4	-41 31	7.8				
9 37.3	-41.8	13236	9 38.1	-41 50	7.5				
9 45.2	-41.7								
8 59.5	-42.0								
9 1.0	-42.0								
9 10.0	-42.0	12563	9 12.1	-41 26.1	8.0				
9 10.1	-41.7	8.3							
9 10.5	-42.1								
9 17.0	-42.5	12732	9 17.0	-42 24	8				
9 17.6	-42.5	12745	9 17.5	-42 24	7.8				
9 24.2	-42.2	12903	9 24.0	-42 8	7.5				
9 34.2	-42.4	13178	9 35.2	-42 25	8				
9 39.0	-42.5								
9 43.2	-42.2								
9 47.2	-42.2								
8 58.5	-42.4	12333	8 58.9	-42 19	7.8				
8 58.9	-42.6								
9 7.0	-42.9	12509	9 7.2	-42 51	7.2				
9 7.5	-43.0	12513	9 7.4	-42 52	7.8				
9 8.9	-43.0	12542	9 8.8	-43 12	6.8				
9 10.5	-42.8	12593	9 10.6	-42 49	5.9				
[[/table]]									

207									
9 13.2	-41.6								
9 18.2	-41.8	12753	9 18.1	-41 46	6.4				
9 20.0	-41.9								
9 21.5	-41.9								
9 23.0	-41.9	12866	9 22.6	-41 49	7.2				
9 25.6	-41.6								
9 27.5	-41.6								
9 28.9	-41.9								
9 36.9	-41.5	13227	9 37.4	-41 31	7.8				
9 37.3	-41.8	13236	9 38.1	-41 50	7.5				
9 45.2	-41.7								
8 59.5	-42.0								
9 1.0	-42.0								
9 10.0	-42.0	12563	9 12.1	-41 26.1	8.0				
9 10.1	-41.7	8.3							
9 10.5	-42.1								
9 17.0	-42.5	12732	9 17.0	-42 24	8				
9 17.6	-42.5	12745	9 17.5	-42 24	7.8				
9 24.2	-42.2	12903	9 24.0	-42 8	7.5				
9 34.2	-42.4	13178	9 35.2	-42 25	8				
9 39.0	-42.5								
9 43.2	-42.2								
9 47.2	-42.2								
8 58.5	-42.4	12333	8 58.9	-42 19	7.8				
8 58.9	-42.6								
9 7.0	-42.9	12509	9 7.2	-42 51	7.2				
9 7.5	-43.0	12513	9 7.4	-42 52	7.8				
9 8.9	-43.0	12542	9 8.8	-43 12	6.8				
9 10.5	-42.8	12593	9 10.6	-42 49	5.9				

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December 5, 1892

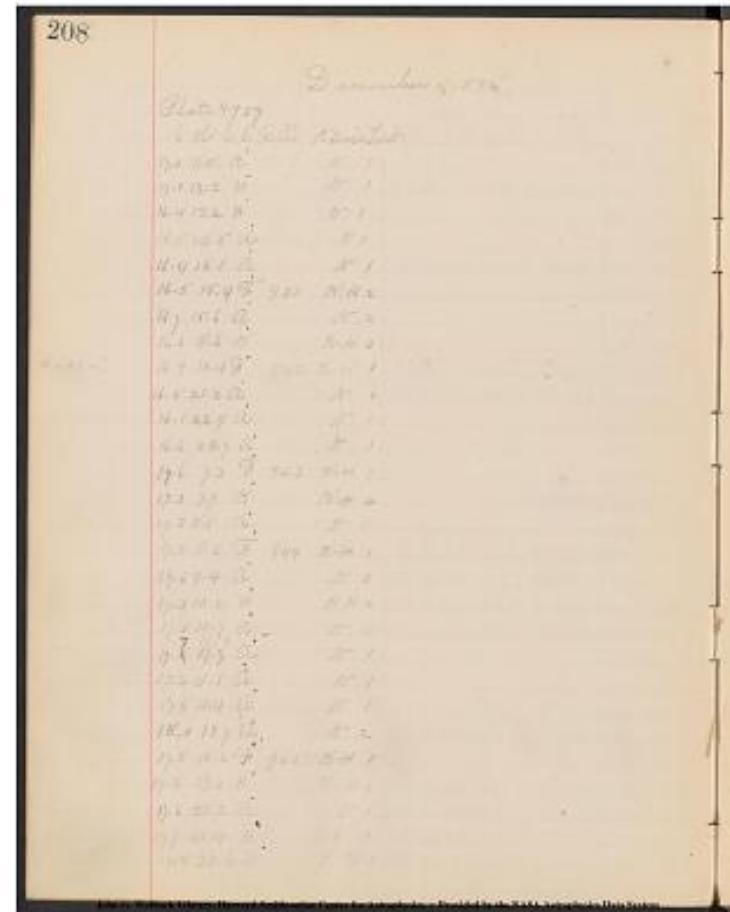
Plate 4957

[[6 columned table]]

V | H | Cl | Rem. No | K line | Int |

17.0	11.5	A		N	1
17.0	12.2	H		N	1
16.4	12.2	A		N	1
16.5	14.5	A		N	1
16.4	15.0	A		N	1
16.5	15.4	F	941	K=H	2
16.7	15.6	A		N	2
16.6	18.6	H		K=H	3
16.9	10.4	F	942	K=H	1
16.5	21.2	A		N	1
16.1	22.9	A		N	1
16.6	23.7	A		N	1
17.6	7.3	F	943	K=H	1
17.3	7.7	K		K=H	4
17.3	8.1	A		N	1
17.2	8.3	F	944	K=H	1
17.6	9.4	A		N	3
17.3	10.2	H		K=H	2
17.5	10.7	A		N	1
17.	11.1	A		N	1
10.	11.1	A		N	1
17.2	11.1	A		N	1
17.5	13.4	A		N	1
18.0	13.7	A		N	2
17.8	15.2	F	945	K=H	1
17.3	19.2	H		K=H	1
17.6	21.2	A		N	1
17.7	21.4	H		N	1
17.4	22.6	G		K=H	2

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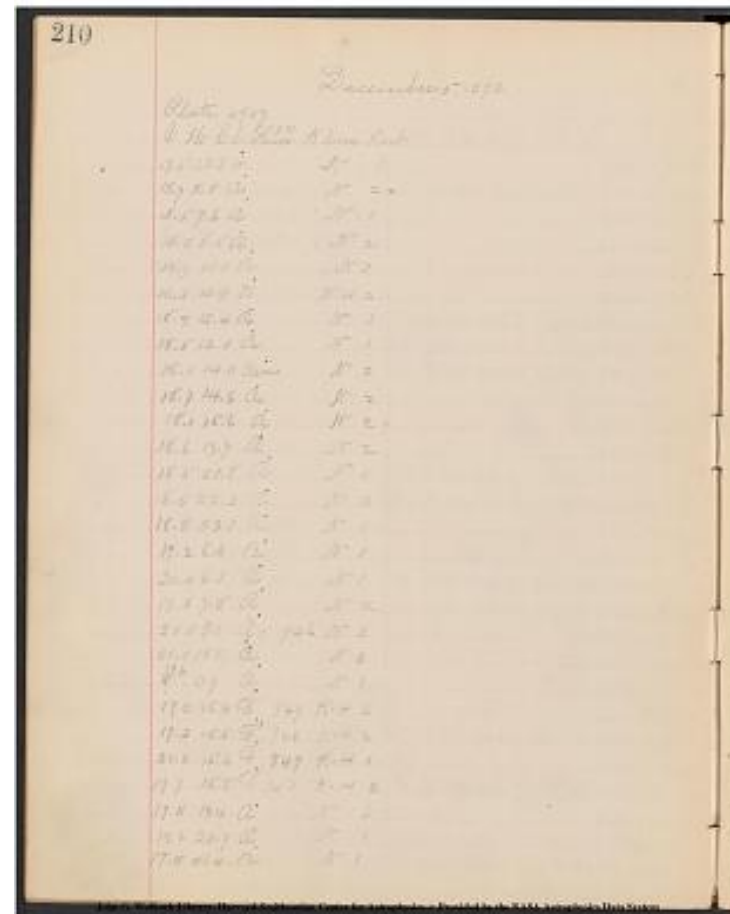


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December 5th, 1892
Plate 4957

[[table]]					
V	H	Cl	Rem No.	K line	Int
17.5	23.3	H		N	1
18.7	5.8	A		N	2
18.5	7.6	A		N	1
18.8	8.5	A		N	2
18.7	10.0	A		N	3
18.3	10.9	K		K=H	2
18.9	12.4	A		N	1
18.5	13.0	A		N	1
18.1	14.0	Ma		N	2
18.7	14.6	A		N	2
18.1	15.6	A		N	2
18.6	17.7	A		N	2
18.5	20.8	A		N	1
18.5	22.3	A		N	2
18.8	23.1	A		N	1
19.2	6.0	A		N	1
20.0	6.1	A		N	1
19.8	7.8	A		N	2
20.0	9.1	A?	946	N	3
20.0	10.8	A		N	3
[[19.3 15.4]F 947K=H]2					
19.3	15.5	F	948	K=H	2
20.0	15.6	F	949	K=H	1
19.9	15.8	F	950	K=H	2
19.8	17.4	A		N	3
19.6	20.7	A		N	1
19.8	21.4	A		N	1



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Plate 4954

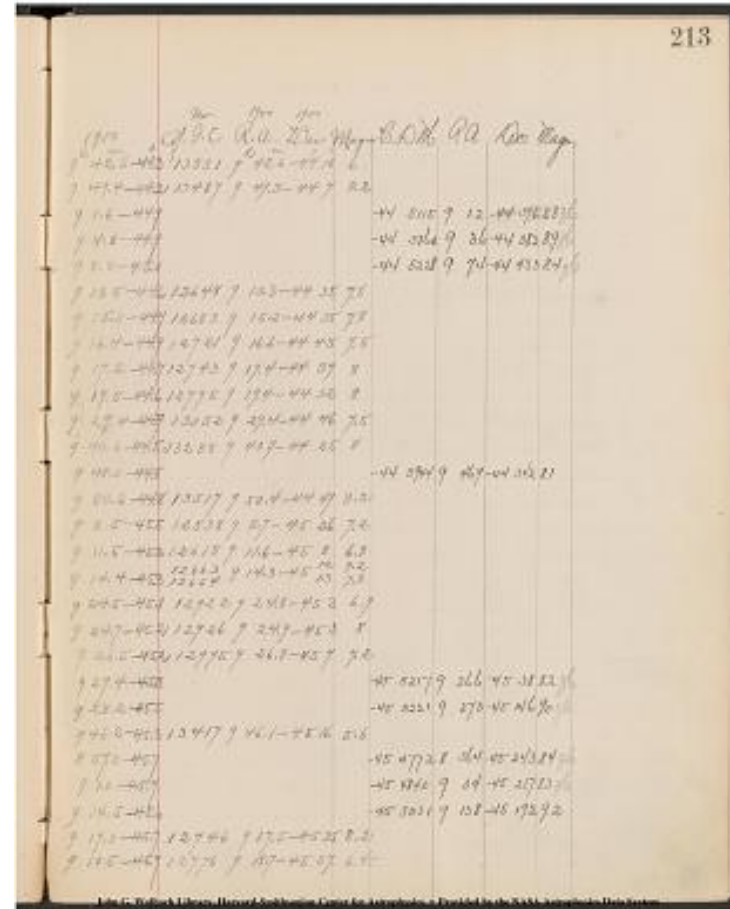
[[table]]

V | H | Cl. | Rem. No. | K. line | Int. |

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19.7	24.0	F	951	K=H	2
20.9	7.2	A		N	1
20.9	8.0	A		K=H	1
20.9	9.4	A		N	2
20.3	11.2	A		N	3
20.3	11.8	H		K=H	1
20.6	12.3	H		K=H	2
20.3	12.6	A		N	2
20.2	13.4	A		N	2
20.6	16.8	A		N	1
20.2	20.9	A		N	1
20.8	23.4	A		N	2
21.0	24.0	A		N	3
22.0	9.6	F	952	K=H	2
21.4	10.6	A		N	3
21.6	11.6	A		N	2
21.2	15.2	A		N	3
21.2	15.2	A		N	1
21.3	15.9	H		K=H	2
21.5	16.2	A		N	1
21.9	16.4	A		N	1
21.8	22.7	A		N	3
22.5	5.6	A		N	1
22.3	7.0	A		N	1
22.1	11.7	A		N	1
22.3	12.9	A		K=H	1
22.3	13.2	G		K=H	3

Project PHaEDRA - Williamina P. Fleming - Measurements of Spectrum
Plates, Southern Draper Catalogue #61
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[[table]]																	
1900		No. A.G.C.		1900 RA		1900 Dec		Magn.		No. C.D.M.		RA		Dec		Magn.	
9 ^h [[h]]		42.5 ^m [[m]]		-44.3 ^s		13331		9 ^h [[h]]		42.6 ^m [[m]]		-44° 18'					
9 49.4 -44.2	13487	9 49.3 -44 7 8.2															
9 1.6 -44.9		-44 5115 9 1.2	-44 39.6		8.8Z.C												
9 4.0 -44.9		-44 5160 9 3.6	-44 38.2		8.9Z.C												
9 8.0 -45.0		-44 5228 9 7.4	-44 43.3		8.4Z.C												
9 13.5 -44.6	12648	9 13.3 -44 35 7.5															
9 15.0 -44.7	12683	9 15.2 -44 35 7.8															
9 16.4 -44.9	12721	9 16.6 -44 45 7.5															
9 17.2 -44.7	12743	9 17.4 -44 37 8															
9 19.5 -44.6	12795	9 19.4 -44 32 8															
9 29.4 -44.9	13052	9 29.4 -44 46 7.5															
9 40.6 -44.5	13288	9 40.9 -44 25 8															
9 48.0 -44.8		-44 5944 9 46.9	-44 34.2		8.1												
9 50.2 -44.8	13517	9 50.4 -44 49 8.2															
9 8.5 -45.5	12538	9 8.7 -45 26 7.2															
9 11.5 -45.2	12618	9 11.6 -45 8 6.8															
9 14.4 -45.3	12664	9 14.3 -45 13 ^h [[12]]			7.8 ^h [[9.2]]												
9 24.5 -45.1	12922	9 24.8 -45 3 6.9															
9 24.7 -45.2	12926	9 24.9 -45 3 8															
9 26.5 -45.2	12995	9 26.8 -45 7 7.2															
9 27.4 -45.3		-45 5217 9 26.6	-45 3.8		8.2Z.C												
9 28.2 -45.5		-45 5221 9 27.3	-45 14.6		9.0Z.C												
9 46.2 -45.2	13417	9 46.1 -45 16 5.6															
8 57.0 -45.7		-45 4772 8 56.4	-45 24.3		8.4Z.C												
9 1.0 -45.7		-45 4840 9 0.4	-45 21.7		8.3Z.C												
9 14.5 -45.6		-45 5031 9 13.8	-45 19.2		9.2												
9 17.0 -45.7	12746	9 17.5 -45 35 8.2															
9 18.5 -45.7	12776	9 18.7 -45 37 6.4															



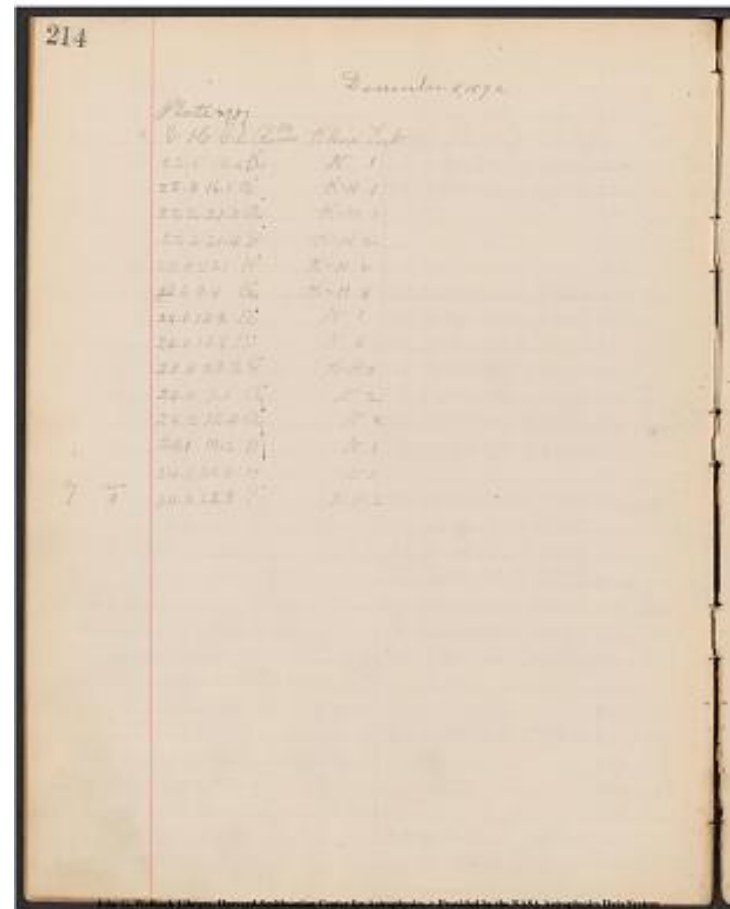
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December 5, 1892
Plate 4957

[[6 column table]]
V|H|Cl.|Rem.^|[No.]]|K. Line|Int.|
---|---|---|---|---|
22.5|14.5|A| |N|1|
22.3|16.1|A| |K=H|1|
22.2|21.2|A| |K=H|1|
22.2|21.4|G| |K=H|2|
22.8|23.1|H| |K=H|2|
23.6|9.4|A| |K=H|3|
24.0|13.2|A| |N|1|
24.0|13.6|A| |N|3|
23.5|23.2|G| |K=H|3|
24.0|7.1|A| |N|2|
24.2|12.4|A| |N|2|
24.1|14.2|H| |N|1|
24.1|20.0|H| |N|1|
1^|[h 1 0^|[m]] 24.3|22.8|| |K=H|2|

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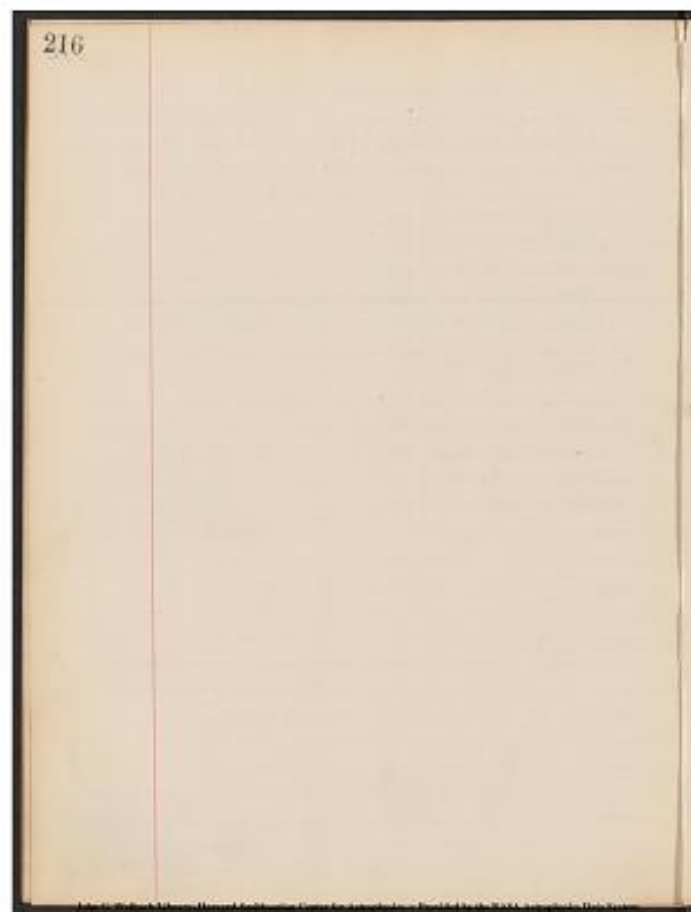
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Dec Magn.									
9 ^h 22.4 ^m 45.8 ^s									
9 27.4 -45.7									
9 41.6 -45.5	13308	9 41.8	-45 27	7.8					
9 42.5 -45.5	13322	9 42.3	-45 28	9.5					
9 42.5 -45.5	13323	9 42.3	-45 27	7					
9 47.5 -45.8	13451	9 47.5	-45 44	6.2					
9 7.9 -46.3	12526	9 8.0	-46 10	6.2					
9 18.5 -46.5	12783	9 18.9	-46 25	8.5					
9 19.9 -46.5	12814	9 20.0	-46 28	6.6					
[[underline]]9 47.7 -46.1[[/underline]] 13453 9 47.8 -46 3 7.8									
[[underline]]9 47.7 -46.1[[/underline]] 13455 9 47.9 -46 5 5									
9 0.6 -46.7	12372	9 0.7	-46 42	4.6					
9 16.0 -46.7	12718	9 16.4	-46 31	7.8					
9 21.5 -46.5	12841	9 21.6	-46 30	7.5					
9 38.6 -46.5	13255	9 38.7	-46 25	7.2					
9 46.7 -46.5	13440	9 46.9	-46 28	6.4					

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No. A.G.C. 1900 RA 1900 Dec Magn. No. C.D.M. RA									
Dec Magn.									
9 27.4 -45.7									
9 41.6 -45.5	13308	9 41.8	-45 27	7.8					
9 42.5 -45.5	13322	9 42.3	-45 28	9.5					
9 42.5 -45.5	13323	9 42.3	-45 27	7					
9 47.5 -45.8	13451	9 47.5	-45 44	6.2					
9 7.9 -46.3	12526	9 8.0	-46 10	6.2					
9 18.5 -46.5	12783	9 18.9	-46 25	8.5					
9 19.9 -46.5	12814	9 20.0	-46 28	6.6					
[[underline]]9 47.7 -46.1[[/underline]] 13453 9 47.8 -46 3 7.8									
[[underline]]9 47.7 -46.1[[/underline]] 13455 9 47.9 -46 5 5									
9 0.6 -46.7	12372	9 0.7	-46 42	4.6					
9 16.0 -46.7	12718	9 16.4	-46 31	7.8					
9 21.5 -46.5	12841	9 21.6	-46 30	7.5					
9 38.6 -46.5	13255	9 38.7	-46 25	7.2					
9 46.7 -46.5	13440	9 46.9	-46 28	6.4					

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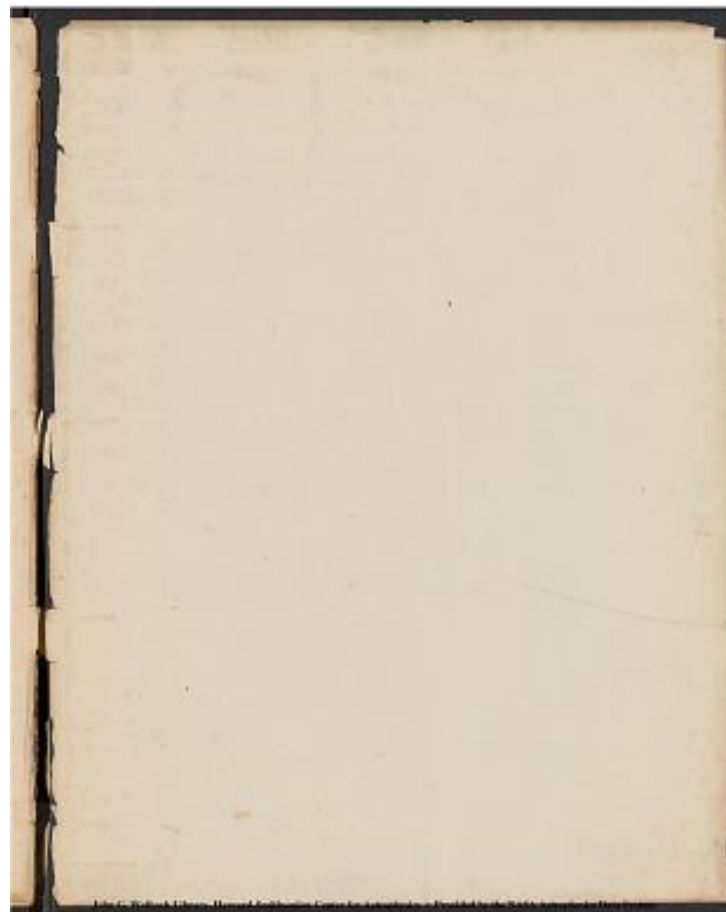
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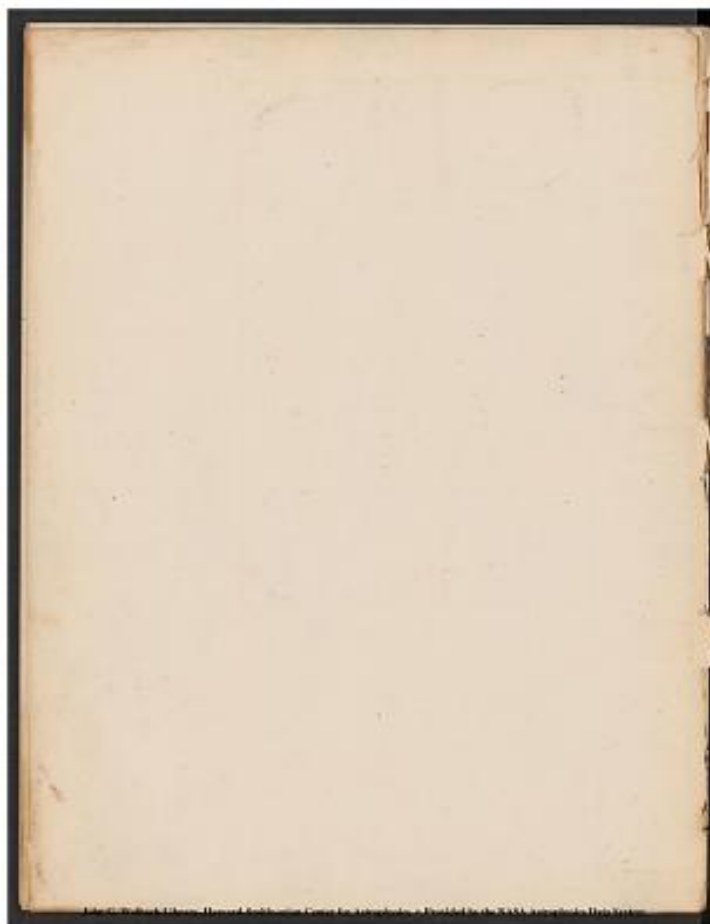
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