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Project PHaEDRA - at Maria Mitchell Observatory - Measurement of Variable Stars

Extracted on Mar-27-2023 10:25:08

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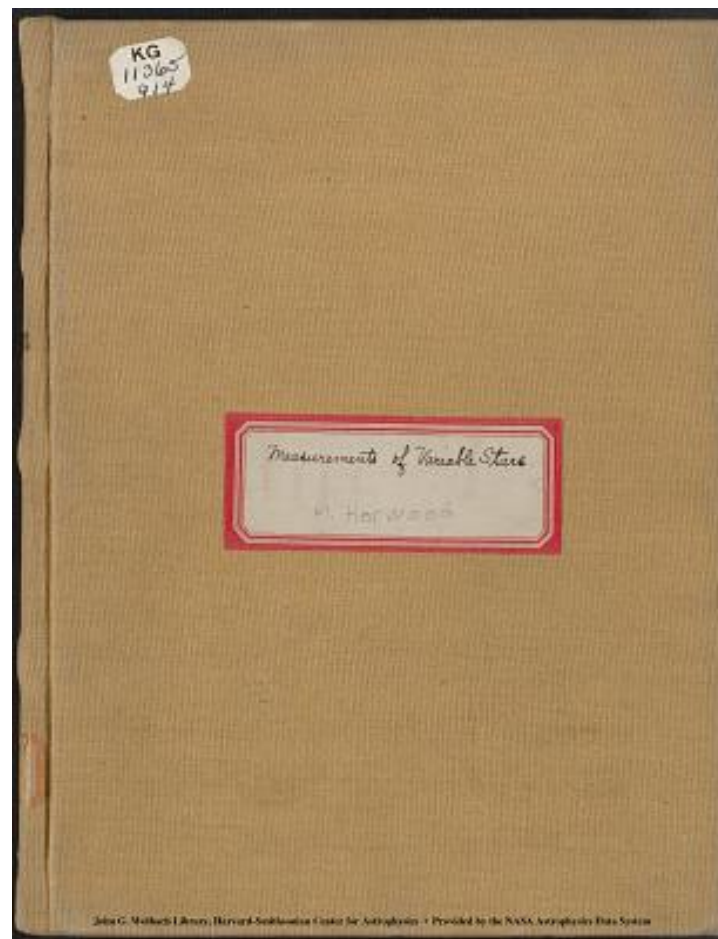
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KG
11365
914

Measurements of Variable Stars
M. Harwood



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KG 11365.914

Correction to first scale

I, B and Ma plates + 0.2 scale from I 32811
A plates, H, X, C - 0.3 C 15350

Always take the mean of the second reading and the corrected first reading to hundredths of a magnitude.

AC and AM plates taken with usual aperture.
Scale from A C 8858
Scale 1 Correction = -0.2
Scale 2 Correction = -0.4
Scale 3 Correction = 0.0

KG 11365.914

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Scale 3 " 0.0

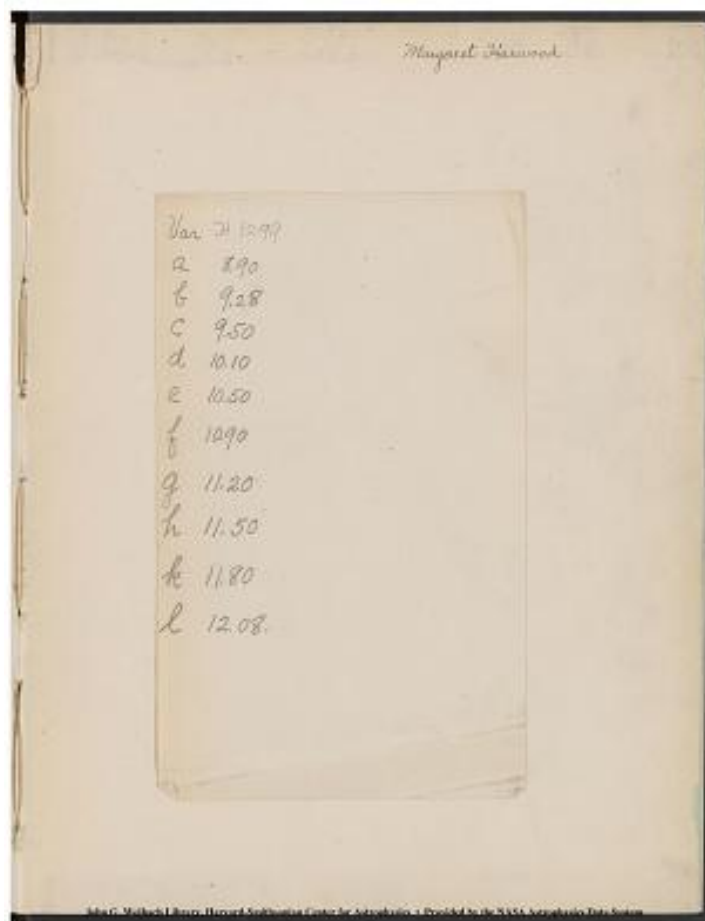
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Margaret Harwood

[[2 column table]]

Var	H1299
a	8.90
b	9.28
c	9.50
d	10.10
e	10.50
f	10.90
g	11.20
h	11.50
k	11.80
l	12.08



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[[2 column table]]

Var. | H1300. |

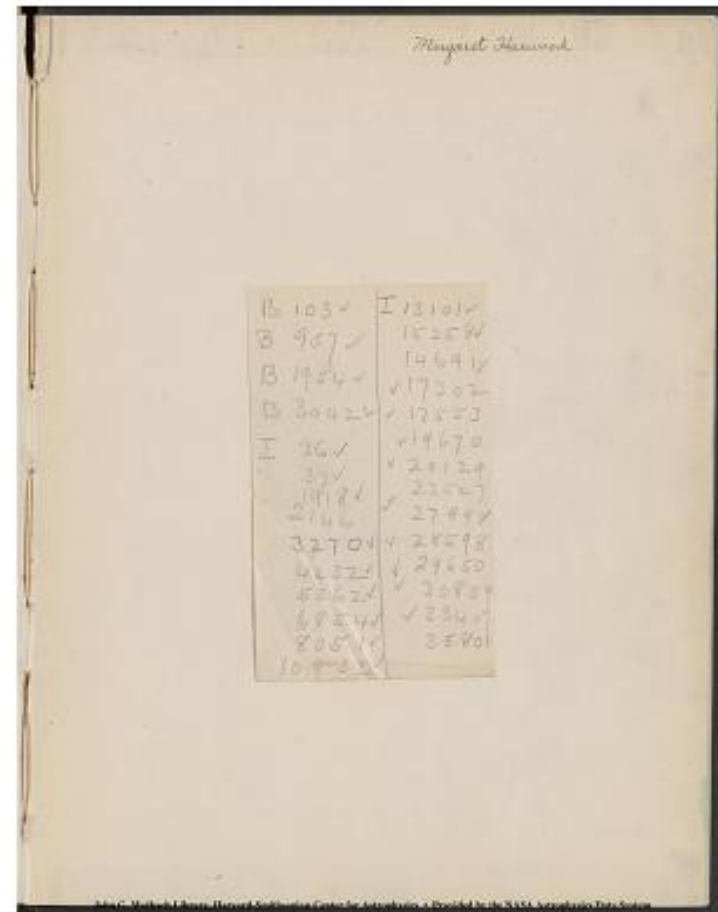
a	8.6
b	9.0
c	9.5
d	9.7
e	10.3
f	11.0
g	11.5
h	12.1

	Var. H 1300.
a	8.6
b	9.0
c	9.5
d	9.7
e	10.3
f	11.0
g	11.5
h	12.1

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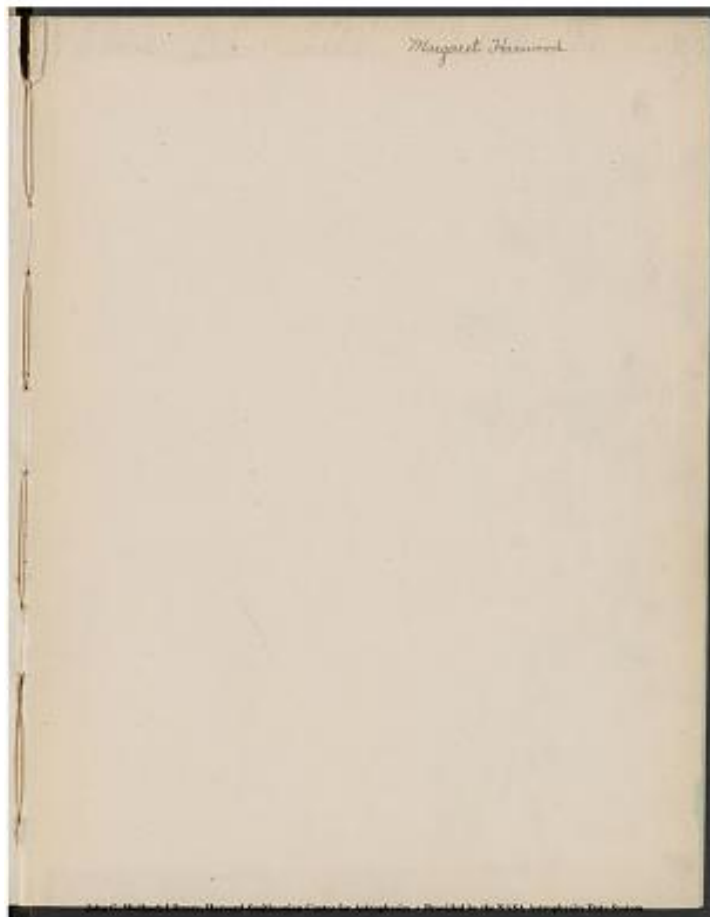
Margaret Harwood

[[2 column table]]
B103[[symbol-check mark]]|13101[[symbol-check mark]]
B957[[symbol-check mark]]|15258[[symbol-check mark]]
B1954[[symbol-check mark]]|14691[[symbol-check mark]]
B3042[[symbol-check mark]]|[[symbol-check mark]] 17302|
|36[[symbol-check mark]]|[[symbol-check mark]]17553|
37[[symbol-check mark]]|[[symbol-check mark]]19670|
1918[[symbol-check mark]]|[[symbol-check mark]]20129|
2146|23527|
3270[[symbol-check mark]]|[[symbol-check mark]]27998|
4232[[symbol-check mark]]|[[symbol-check mark]]28598|
5362[[symbol-check mark]]|[[symbol-check mark]]29650|
6854[[symbol-check mark]]|[[symbol-check mark]]30859|
8051[[symbol-check mark]]|[[symbol-check mark]]33407|
10932[[symbol-check mark]]|35801|



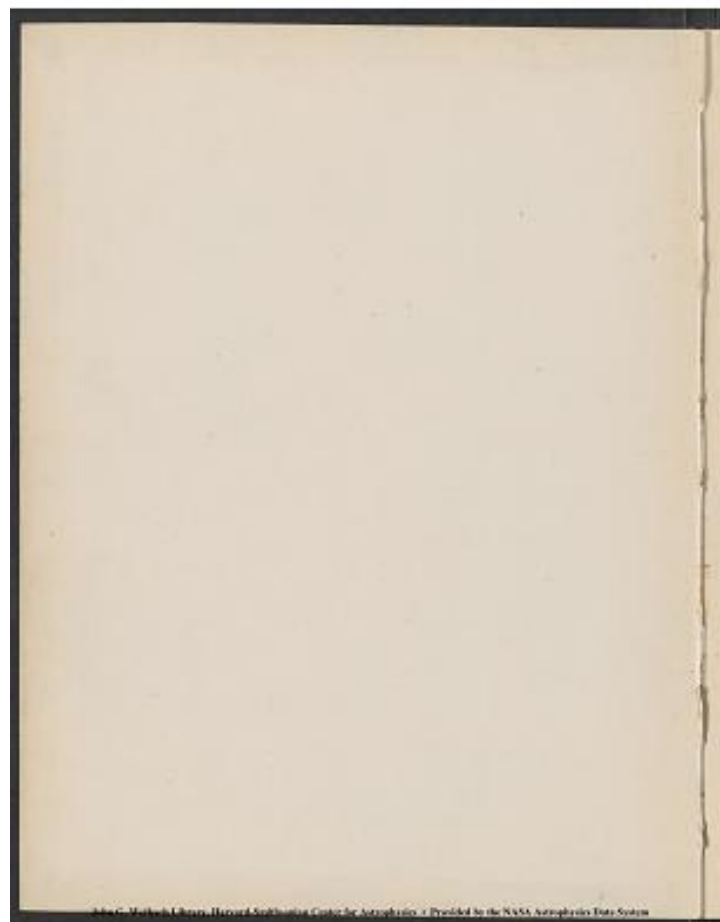
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Stars
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KG11365.914

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University
Library
JUL 17 1956
[[/stamp]]



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4-19 ---- Measurements of Var. H. 1299.

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34 ----- List of AM&AC plates examined to find traces of H.404. Nova(?)

Pyxidis

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20 - 33	Measurements of Var. H. 1300.
34	List of AM&AC plates examined to find traces of H. 404. Nova(?) Pyxidis
35 - 37	Measures of B plates for Var H. 404.

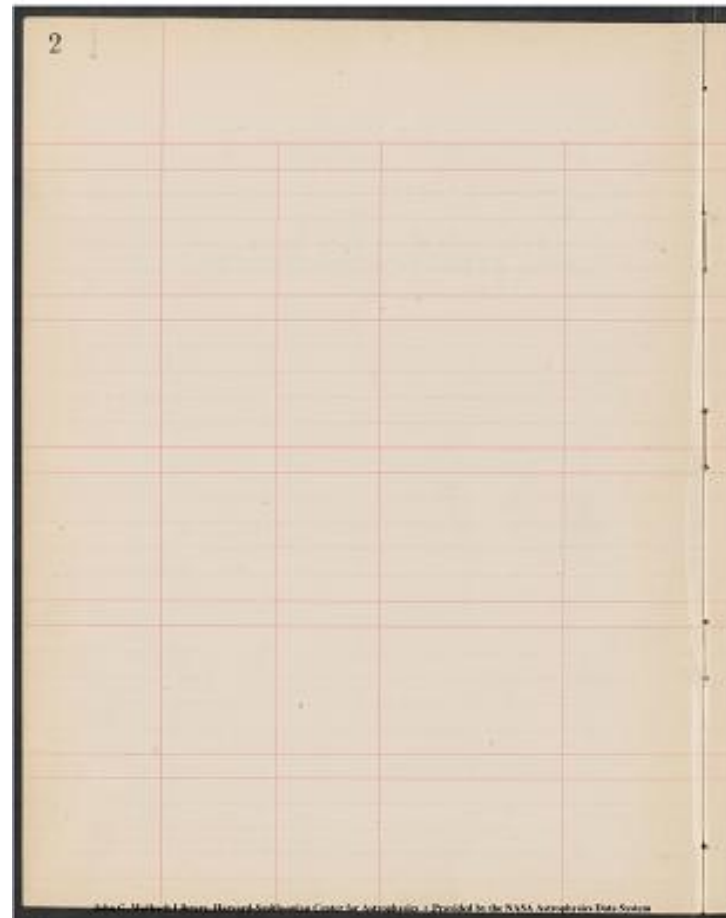
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2

[[no input]]



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3

[[no input]]



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[[preprinted]]4[[/preprinted]]
 [[underlined]]Wednesday September 30, 1908[[/underlined]]

alpha 13^h 1^m 39.5^s
 delta -59[°] 34'.8
 H. 1299. C.P.D. -59[°] 47.81 2 inch eyepiece
 Time: 22:55

first measurement	9:10	
am. 3557	10.7	am 1159 am 1839
images elongated	10.6	
am 3370	10.6	var. too faint to estimate.
am 1843		
no image		
am 2738	10.2	am 1229 poor plate -
10.4		thick film
am 2717	10.0	images slightly
elongated.		am 1899
am 389		images faint, variable not seen
am 1258		
am. 400		images faint, variable not seen.
10.7		am 1915
11.7		
a.m. 738		many scratches
on the plate		
am 782	10.8	images slightly elongated
some scratches pass		
am 806	10.9	am 1467 through the
11.1		comparison stars
am 846	10.3	am 1724 am 1970
am 928	10.9	11.6
There are 2 images of each star. The following is fainter than the preceding image.		images faint
am 1970		
Preceding image	10.6	am 1808 11.6
Following image	10.7	Preceding 11.0 an excellent plate 4 exposures.
middle 10.9		images are very clear.
following 11.0		
3 images: the middle image the brightest.		

Time 0:35
 Time 4:35

1

Wednesday September 30, 1908

15^h 31^m 59^s 34[°] 34'

H. 1299 C.P.D. -59[°] 47.81 2 inch eyepiece

Time 22:55

First measurement	9:10	
am. 3557	10.7	am 1159 am 1839
images elongated	10.6	
var. too faint to estimate		am 1843
no image		
am 2738	10.2	am 1229 poor plate -
10.4		thick film
am 2717	10.0	images slightly
elongated.		am 1899
am 389		images faint, variable not seen
am 1258		
am. 400		images faint, variable not seen.
10.7		am 1915
11.7		
a.m. 738		many scratches
on the plate		
am 782	10.8	images slightly elongated
some scratches pass		
am 806	10.9	am 1467 through the
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am 928	10.9	11.6
There are 2 images of each star. The following is fainter than the preceding image.		images faint
am 1970		
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middle 10.9		images are very clear.
following 11.0		
3 images: the middle image the brightest.		

Time 0:35
 Time 4:35

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[[preprinted]]6[[/preprinted]]
 [[underlined]] Thursday, October 1, 1908 [[/underlined]]

H. 1299 First measurement Cont 2 in. eyepiece
 Time 2:10
 2 inch eyepiece
 [[table]]
 | 1 inch eyepiece|1 inch eyepiece|
 AM 5375|AM 5439|AM 5513|
 11.4|11.3|11.1|
 images slightly elongated - near|very faint|very faint|
 edge.|AM 5440|AM 5515|
 |no image|Too faint to measure|
 AM 5419|f. faintest| |
 no image|comparison|AM 5512|
 d is the faintest|star|11.2|
 comparison star| |faint|
 seen|AM 5448| g. faintest comp star|
 |11.3| |
 AM 5420| |AM 5514|
 no image|AM ~~1209~~|~~5471~~|10.9|
 g is faintest|11.6|faint f=faintest|
 comparison star|very faint|comp. star|
 AM 5419|AM 5500|AM 3682|
 no image|11.1|10.8|
 d. faintest comparison star| | |
 |AM 5501|AM 3664|
 |11.0|10.7|
 AM 5375| | |
 [[margin]]1 inch eyepiece[[/margin]]|11.3|AM 5510| |
 [[strikethrough]]|[[/strikethrough]]|[[/strikethrough]]|11.1| |
 AM 5433| | |
 Too faint to|AM 5511| |
 measure|10.7| |
 [[/table]]
 Time 3:40

6		Thursday, October 1, 1908	
H. 1299 First measurement Cont		2 in. eyepiece	
Time 2:10	1 inch eyepiece	1 inch eyepiece	2
2 inch eyepiece	AM 5375	AM 5439	AM 5513
	11.4	11.3	11.1
images slightly elongated - near	very faint	very faint	
edge.	AM 5440	AM 5515	
	no image	Too faint to measure	
AM 5419	f. faintest	AM 5512	
no image	comparison	11.2	
d is the faintest	star	faint	
comparison star		g. faintest comp star	
seen	AM 5448		
	11.3		
AM 5420	AM 5514		
no image	10.9		
g is faintest	11.6	faint f. faintest	
comparison star	very faint	comp star	
AM 5419	AM 5500	AM 3682	
no image	11.1	10.8	
d. faintest comparison star			
	AM 5501	AM 3664	
	11.0	10.7	
AM 5375	AM 5510		
1 inch eyepiece	11.3		
	11.1		
AM 5433	AM 5511		
Too faint to			
measure	10.7		

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[[preprinted]]7[[/preprinted]]
 [[underlined]]Friday, Oct. 2. 1908[[/underlined]]
 H. 1299 First Measurement Continued
 Time 21:20
 [[table]]
 1 1/2 inch eyepiece|AM 5468 11.1|AM 5421 11.1|
 |am 5469 11.0|AM 5422 No image|
 |c. faintest comp. star|
 |am 5470 11.3 Images Slightly elongated - near edge.|am 5413 too
 faint to measure|
am 5434 11.3	am 5415 11.4
am 5438 11.5	am 5405 11.4 Very faint
images slightly elongated because near the edge	am 5401 11.3
am 5456 no image f, faintest comparison star	^[[On these three
plates the var is near the edge]] am 5293 10.7	
{am 5416 11.4	
{am 5462 11.4	
 [[/table]]
 Time 22:00

Friday, Oct. 2, 1908 7

H. 1299 First measurement Continued

Time 21:20	AM 5468	AM 5421
1 1/2 inch eyepiece	11.1	11.1
	AM 5469	AM 5422
	11.0	No image
		c. faintest comp. star
	AM 5470	
	11.3	AM 5413
Images slightly elongated - near edge		Too faint to measure
	AM 5434	AM 5415
	11.3	11.4
	AM 5438	AM 5405
	11.5	11.4
Images slightly elongated because near the edge		Very faint
		AM 5401
		11.3
	AM 5456	AM 5293
No image f. faintest comparison star	On these three plates the var is near the edge	10.7
		AM 5416
		11.4
AM 5461	11.4	AM 5462
		11.4

Time 22:00

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8

Friday Oct 2, 1908

H. 1299 Second Measurement

Time 23:50

Q in. eyepiece

[[3 column table]]

AM 2645|AM 5514|AM 5510

10.4|10.8|11.1

|very faint.

AM 1467|f. faintest|AM 5501

11.1|comp. star|11.0

Time 0:45

[[2 column table]]

AM 3682|AM 5512

10.4| 11.1

| very faint

AM 3664|

10.6 | AM 5515

n.s. Time 1:00

[[3 column table]]

AM 5433| fainter than| AM 5500

11.6| 1 | 11.1

k appears brighter than h, | |

but this is unreliable bec. images are so faint. | AM 5513|AM 5448

AM 5375| 11.1| 11.1

11.4| very faint|

| | AM 5440

AM 5419|AM 5471|ns

ns|11.6|fainter than g

g [[/strikethrough]]f[[/strikethrough]] faintest | thick film,|

comp. star 0. [[/strikethrough]]4[[/strikethrough]] 1 | hit clear. |

| | A< 5439

AM 5420|AM 5511|11.2

n.s|10.7|g. faintest star seen

h. faintest comp|

star: very faint|

1:15

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8			
Friday Oct 2, 1908			
H. 1299 Second Measurement			
Time 23:50			
Q in. eyepiece	AM 2645	AM 5514	AM 5510
	10.4	10.8	11.1
	AM 1467	very faint f. faintest comp. star	AM 5501
	11.1		11.0
			Time 0:45
	AM 3682	AM 5512	
	10.4	11.1	
	AM 3664	very faint	
	10.6	AM 5515	
		11.2	
	AM 5433	fainter than	Time 1:00
	11.6	h	AM 5500
k appears brighter than h.			11.1
but this is unreliable bec. images are so faint.	AM 5513	AM 5448	
	AM 5375	11.1	11.1
	11.4	very faint	
	AM 5419	AM 5471	AM 5440
	11.6	11.6	11.2
	very faintest	thick film,	fainter than g
	comp. star 0.4	but clear	
			AM 5439
	AM 5420	AM 5511	11.2
	10.5	10.7	g. faintest star seen
	h. faintest comp		
	star: very faint		
			1:15

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[[preprinted]]9[[/preprinted]]

Friday, Oct. 2, 1908

H. 1299 2nd Meas Continued

Time 3:40

[[table]]

AM 5462|AM 5421|AM 5342|AM 4741|

11.4|11.1|11.1 thick film|NS. very poor plate no. comp. stars seen.

AM 5416|AM 5416|

11.4|11.3|AM 5320|AM 4364|

| | n.s.|11.4|

AM 5293|AM 5456|fainter than e, 0.2 |

10.9|n.s. | Time 4:55|

|fainter than f 0.1|AM 5313| |

AM 5401| | 11.0| |

11.3| | |

|AM 5438|AM 5287| |

AM 5405|11.4|10. ~~4~~6 |

11.3| | |

|AM 5434|AM 4901| |

AM 5415|11.3|11.4| |

11.4| | |

|AM 5470|AM 1970| |

AM 5413|11.3|11.7| |

NS fainter than g|thick film|AM 4825|

|AM 5469|11.3| |

AM 5422|11.1| |

n.s. |AM 4798| |

fainter than C.|AM 5468|11.5| |

| | 11.2|

| |AM 4746| |

| | 10.9| |

[[/table]]

	Friday, Oct. 2, 1908 9			
	H. 1299 2nd Meas. Continued			
Time 3:40	AM 5462 11.4	AM 5421 11.1	AM 5342 11.1 thick film	AM 4741 n.s. very poor plate - no comp. stars seen
	AM 5416 11.4	AM 5416 11.3	AM 5320 n.s.	AM 4364 11.4
	AM 5293 10.9	AM 5456 n.s. fainter than f 0.1	fainter than <u>e</u> , 0.2 AM 5313 11.0	Time 4:55
	AM 5401 11.3	AM 5438 11.4	AM 5287 10.9	
	AM 5405 11.3	AM 5434 11.3	AM 4901 11.4	
	AM 5415 11.4	AM 5470 11.3	AM 1970 11.7	
	AM 5413 n.s. fainter than g	thick film - AM 5469 11.1	AM 4825 11.3	
	AM 5422 n.s. fainter than C.	AM 5422 11.2	AM 4798 11.5	
			AM 4746 10.9	

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[[preprinted]]10[[/preprinted]]
 [[underlined]]Saturday, October 3, 1908[[/underlined]]
 H. 1299 2nd Measurement Cont.
 [[table]]
 |Time 21:15| |Time 23:25| |
 1 1/2 in. eyepiece|AM 4300|AM 2801|AM 1944|AM 1411|
11.0	10.2	11.4	11.1	
	[[/strikethrough]]A	[[/strikethrough]]		
Am 4212	AM 2588	AM 1915	AM 1229	
11.0	10.3	11.6	10.3	
AM 4194	AM 2569	AM 1899	AM 1258	
10. [[/strikethrough]]5	[[/strikethrough]]7	10.7	11.4	10.6
AM 4134	AM 2529	AM 1843	AM 1159	
10.1	11.0	N.S.	11.0	
	no comparison stars			
AM 4053	AM 2478	seen. 2.0 magn.	AM 928	
10.3	11.1	before a could be seen-	f 10.8	
	poor plate.	f 10.7		
[[symbol-check mark]]	AM 3487	Am 2442		2 inch eyepiece
10.5	10.8	AM 1839	AM 846	
	10.7	10.5		
AM 3604	AM 2117			
p 10.7	11.0	AM 1808	AM 806	
m 10.7	images elongated.	p. 11.0	10.9	
f 10.6		n. 10.8		
	f. 11.0	AM 782		
AM 3499	AM 2098		10.7	
10.7	11.0	AM 1724		
	11.0	AM 738		
AM 3444		10.7		
10.2	Time 22:05			
 [[/table]]

10		Saturday, October 3, 1964	
241299 2nd Measurement Cont.		June 22:25	
June 21:15 1 1/2 in. eyepiece	ATM 4300 11.0	ATM 2801 10.2	ATM 1944 11.4
	ATM 4212 11.0	ATM 2585 10.3	ATM 1915 11.6
	ATM 4996 10.5	ATM 2559 10.7	ATM 1899 11.4
	ATM 4134 10.1	ATM 2529 11.0	ATM 1843 11.5
	ATM 4053 10.3	ATM 2475 11.1	ATM 1808 11.0
	ATM 3487 10.5	ATM 2442 10.8	ATM 1839 10.7
	ATM 3604 p 10.7 m 10.7 f 10.6	ATM 2117 11.0 image shape flat	ATM 1805 p 11.0 m 10.8 f 11.0
	ATM 3499 10.7	ATM 2098 11.0	ATM 1724 11.0
	ATM 3444 10.2		

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[[preprinted]]11[[/preprinted]]
 Saturday, Oct. 3, 1908
 H. 1299 2nd meas. cont.

[[table]]
 2 inch eye piece|am389|am5515|
n.s.	n.s.	
fainter than	fainter	
d. e. 0.2	than, e (0.4)	
AM 2717	AM 5439	
10.0	n.s. fainter than	
AM 2738	g	
10.2	11.1	
AM 3370	AM 5440	
10.7	n.s. g. faintest	
AM 3557	comp star (O.D)	
10.8		
	AM 5413	
Time 0:30	Time 0^h 30^m	n.s.
3rd meas. of regions in nh. var cannot be seen.		g. faintest
Time 1:40	AM 5514	comp star
	10.9	(0.1)
	very faint	
	AM 5422	
	AM 5420	n.s.
	n.s.	fainter than
	h faintest	C (0.3)
	comp star (0.1)	
	Time 1:50	
 [[/table]]

11
 Saturday, Oct. 3, 1908
 H. 1299 2nd meas. cont.

2 inch eye piece	AM 389	AM 5515
	n.s.	n.s.
	fainter than	fainter
	d. e. 0.2	than, e (0.4)
	AM 2717	AM 5439
	10.0	n.s. fainter than
	AM 2738	g
	10.2	11.1
	AM 3370	AM 5440
	10.7	n.s.
	AM 3557	g. faintest
	10.8	comp star (O.D)
		AM 5410
		n.s.
		g. faintest
		comp star (0.1)
		AM 5422
		n.s.
		fainter than
		C (0.3)
		comp star (0.1)
		Time 1:50

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Monday, October 5, 1908

H. 1299 First Meas. continued

Time 4:00

am3306

11.0

am1799

11.0

Smagls elonga-

am ted

felus thick tho

images are fairly

clear

am2522

am459

11.0

There are

scratches

thro the stars

of the region

compared also

thro variable

4:20

12

Monday, October 5, 1908

H. 1299 First Meas. continued

Time 4:00

am3306
11.0

am1799
11.0

Smagls elonga-
am ted
felus thick tho
images are fairly
clear

am2522

am459
11.0

There are
scratches
thro the stars
of the region
compared also
thro variable

4:20

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[[preprinted]]13[[/preprinted]]
 [[underlined]]Thursday Oct. 8, 1908[[/underlined]]
 H. 1299 Second measurements cont.-3rd meas. of discordant
 observations.
 Time 23:00
 [[underlined]]1 1/2 in. eyepiece[[/underlined]]

First Measurements Cont.			
AM400	n.s.	f 10.2	Time: 0 ^h 30 ^m
<e=0.0		2 inch eyepiece	Time 1:50
AM3604	h 10.7	AM5525	AM1349
AM459	11.0	m 10.7	AM1815
AM3306	11.0	f 10.6	AM496
AM1799	11.0	Time 24:00	AM902
AM3682	10.7	AM1187	AM2057
AM5320	11.0	1.5 inch eyepiece	AM2506
AM4212	10.8	AM1342	AM2612
AM3487	2 images - Trailed	Time 1:00	AM2676

13
 Thursday Oct. 8, 1908
 H. 1299 Second Measurements Cont.-3rd meas. of
 discordant observations.
 Time 23:00

Second Measurements Cont.			
AM400	n.s.	f 10.2	Time: 0 ^h 30 ^m
AM3604	h 10.7	AM5525	AM1349
AM459	11.0	m 10.7	AM1815
AM3306	11.0	f 10.6	AM496
AM1799	11.0	Time 24:00	AM902
AM3682	10.7	AM1187	AM2057
AM5320	11.0	1.5 inch eyepiece	AM2506
AM4212	10.8	AM1342	AM2612
AM3487	2 images - Trailed	Time 1:00	AM2676

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14
 Thursday Oct. 8 1908
 H. 1299
 First Measurements cont.
 Time 1:10 | am 2813 |
 | 10.3 |
 1 1/2 in. eyepiece |
 | AM 5541 |
 | 11.0 |
 | AM 3697 |
 | 10.8 |
 | AM 3629 |
 | 10.9 |
 | am 3574 |
 Time 1:19 | 10.7 |

14	Thursday Oct. 8, 1908
H. 1299	First Measurements cont.
Time 1:10	am 2813
	10.3
1 1/2 in. eyepiece	am 5541
	11.0
	am 3697
	10.8
	am 3629
	10.9
Time 1:19	am 3574
	10.7

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[[preprinted]]15[[/preprinted]]
 [[underlined]]Friday, Oct 9, 1908[[/underlined]]
 H. 1299
 First Measurements Continued.
 Time 23:35
 [[underlined]]1 in. eyepiece[[/underlined]]
 [[table]]
 AM 3522 | AM 4867 |
 10.6 | 11.6 |
 | Images elongated |
 AM 3470 | film thick |
 10.6 | AM 4893 |
 | 11.3 |
 AM 3433 | Time 24^[[h]]:00 |
 10.3 | |
 | Time 1:10 |
 AM 3424 | |
 10.3 | AM 4444 |
 | 11.3 |
 AM 3396 | Images slightly | |
 10.2 | elongated | AM 4938 |
 | 11.3 |
 AM 4280 | | |
 11.1 | AM 5009 |
 | 11.3 |
 AM 4224 | | |
 10.9 | AM 2429 |
 | [[strikethrough]]10.8[[/strikethrough]] 11.0 |
 AM 4167 | | |
 10.9 | Time 1.17 |
 | | |
 AM 4326 | | |
 11.2 | | |
 [[/table]]

Friday, Oct 9, 1908			15
H. 1299			
First Measurements Continued.			
Time 23:35	AM 3522	AM 4867	
1 in. eyepiece	10.6	11.6	
		Images elongated	
	AM 3470	film thick	
	10.6	AM 4893	
		11.3	
	AM 3433	Time 24:00	
	10.3		
		Time 1:10	
	AM 3424		
	10.3	AM 4444	
		11.3	
	AM 3396	Images slightly elongated	
	10.2	AM 4938	
		11.3	
	AM 4280		
	11.1	AM 5009	
		11.3	
	AM 4224		
	10.9	AM 2429	
		10.8 11.0	
	AM 4167		
	10.9	Time 1.17	
	AM 4326		
	11.2		

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[[preprinted]]16[[/preprinted]]
 [[underlined]]Saturday, Oct. 10, 1908[[/underlined]]
 H 1299
 Time 23:30 Second Measurement Cont.
 [[underlined]]2 inch eyepiece[[/underlined]]
 [[table]]
 AM 3522| AM 4326|AM 5009|
 10.6| 11.1|11.3|
 AM 2813| AM 4167|AM 4938|
 10.4| 10.7|11.4|
 AM 5541| AM 4224|AM 4444|
 11.0| 11.0|11.4|
 AM 3697| AM 4280|AM 4107|
 10.8| 11.1| 10.2|
 AM 4107|(1st meas.)|AM 3396| |
 10.3| 10.2| |
 AM 3629| AM 3424| |
 10.8| 10.4| |
 AM 3574|[1 in eyepiece]-|AM 3433| |
 10.7| 10.3| |
 AM 4893|[1 in eyepiece]|AM 3470| |
 11.3| 10.6| |
 AM 4867|Images|AM 2429| |
 11.7|elongated|11.0| |
 [[/table]]

16	Saturday Oct 10, 1908		
Time 23:30	2nd 1299. Second Measurements Cont.		
2 inch eyepiece	AM 3522 10.6	AM 4326 11.1	AM 5009 11.3
	AM 2813 10.4	AM 4167 10.7	AM 4938 11.4
	AM 5541 11.0	AM 4224 11.0	AM 4444 11.4
	AM 3697 10.8	AM 4280 11.1	AM 4107 10.2
	AM 4107 (1st meas.) 10.3	AM 3396 10.2	
	AM 3629 10.8	AM 3424 10.4	
	AM 3574 10.7	[1 in eyepiece] AM 3433 10.3	
	AM 4893 11.3	[1 in eyepiece] AM 3470 10.6	
	AM 4867 Images 11.7 elongated	AM 2429 11.0	

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18

Thursday, Oct. 14, 1908

H1299

Time 22:00 Measurements of early B plates. First meas.
2 in. eyepiece

11.3	10.9
10.2	
thick film	
10.3	
10.7	
11.0	
n.s.	
1	<d=0.0
10.3	
10.3	
10.4	

Time 22:30

18	Wednesday Oct 14 1908		
H 1299	Measurements of early B plates - First Meas		
Time 22:00	B 5402	B 9640	
2 in eyepiece	11.3	10.9	
	B 12543		
	10.2		
	thick film		
	B 11196		
	10.3		
	B 11437		
	10.7		
	B 12911		
	11.0		
	B 12802		
	n.s.		
	d = 0.0		
	B 11134		
	10.3		
	B 3477		
	10.3		
	B 3420		
	10.4		

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[[preprinted]]19[[/preprinted]]
 Wednesday, Oct. 14, 1908
 H. 1299
 Measures of early B plates, 2nd meas.
 Time 22:45
 [[table]]
 1 1/2 inch eyepiece[[symbol-check mark]]B11196|B9640|B11134 (3rd.
 measure)|
10.4	10.9	10.6
[[symbol-check mark]]B5402		Reject meas. 10.3 for B11134
11.1		
[[symbol-check mark]]B11437		
10.8		
[[symbol-check mark]]B12543		
10.3		
[[symbol-check mark]]B12911		
11.1		
[[symbol-check mark]]B11134		
10.7		
B12802		
N.S.		
>d=0.0		
B3420		
10.3		
B3477		
10.4		
 [[/table]]
 Time 23:05

19

Wednesday Oct 14 1908

H. 1299
 Measures of early B plates, 2nd meas.

Time 22:45
 1 1/2 inch eyepiece

	B11196	B9640	B11134 (3rd Measure)
	10.4	10.9	10.6
B5402	11.1		Reject meas. 10.3 for B11134
B11437	10.8		
B12543	10.3		
B12911	11.1		
B11134	10.7		
B12802	2.5		
>d=0.0			
B3420	10.3		
B3477	10.4		

Time 23:05

John G. Mather & Henry, Harvard-Smithsonian Center for Astrophysics, Cambridge, Mass. 02138

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[[preprinted]]20[[/preprinted]]
 [[underlined]]Friday Oct 16, 1908[[/underlined]]
 H. 1300
 Time 22:30 First measures
 2 in. eyepiece
 [[table]]
 AM 1944[[/striketthrough]] AM 3370[[/striketthrough]] AM 3370|2 in.
 eyepiece|
 |10.0|Reject (a mistake in taking the value of comp. star f)|10.0| |
 ^[[1 in. eyepiece]]AM 3664| AM 5320| |
 9.8| |n.s. [[/striketthrough]]>[[/striketthrough]]< d = 0.1|1 in. eyepiece|
 AM 3306| AM 5448|2 in. eyepiece|
 9.8| 9.9| |
 AM 1799| AM 3444| |
 10.0 Reject| 9.9| |
 Thick Film| | |
 | AM 3499| |
 AM 3682| 10.0| |
 10.1 Reject| | |
 Fine scratches on plate| AM 1899| |
 | 9.8| |
 2 inch eyepiece AM 2645| AM 1915| |
 | 8.7| 10.0| |
 [[/striketthrough]]2[[/striketthrough]] 1 in. eyepiece|AM 1467| AM 3557|
 |
 |11.8 [[underlined]]very[[underlined]] faint|9.8| |
 AM 2588| AM 4134| |
 10.2 Reject| |n.s. [[/striketthrough]]>[[/striketthrough]]< d=0.0| |
 [[/table]]
 23:50

20	Friday Oct 16, 1908			
	H. 1300			
Time 22:30	First measures			
2 in. eyepiece	AM 1944	AM 3370	AM 3370	2 in. eyepiece
	10.0	Reject	10.0	
1 in. eyepiece	AM 3664	intaking the value of	AM 5320	
	9.8	comp. star f.	25 d = 0.1	1 in. eyepiece
	AM 3306		AM 5448	2 in. "
	9.8		9.9	
	AM 1799		AM 3444	
	10.0	Reject	9.9	
	Thick film		AM 3499	
	AM 3682		10.0	
	10.1	Reject	AM 1899	
	Fine scratches on plate		9.8	
2 in. eyepiece	AM 2645		AM 1915	
	8.7		10.0	
1 in. eyepiece	AM 1467		AM 3557	
	11.8		9.8	
	Very faint		AM 4134	
	AM 2588		7.5	
	10.2	Reject	5 d = 0.0	

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[[preprinted]]21[[/preprinted]]

Friday Oct. 16, 1908

H 1300

22:50 2 in. eyepiece

First measures contin.

[[table]]

[[symbol-check mark]]AM 2588[[symbol-check mark]]AM 738|

10.7|9.6|

[[symbol-check mark]]AM 1944[[symbol-check mark]]AM 5287|

10.0|9.2|

[[symbol-check mark]]AM 3682[[symbol-check mark]]AM 3604|

11.~~[[/strikethrough]]2[[/strikethrough]]~~ 1|3 images p 10.3 m 10.1 f too
blurred to measure|

[[symbol-check mark]]AM 1799| |

10.0| |

[[symbol-check mark]]AM 2738| |

8.8| |

[[symbol-check mark]]AM 782| |

n.s. ~~[[/strikethrough]]>[[/strikethrough]]~~ <d=0.1| |

[[symbol-check mark]]AM 806| |

9.8| |

[[symbol-check mark]]AM 2717| |

11.4| |

h not seen| |

[[symbol-check mark]]AM 846| |

9.9| |

[[/table]]

0:20

		Friday Oct. 16, 1908		21
	H 1300			
22:50	First measures.	Contin.		
2 in. eyepiece	AM 2588	AM 738		
	10.7	9.6		
	AM 1944	AM 5287		
	10.0	9.2		
	AM 3682	AM 3604		
	11.2	8 images		
	AM 1799	p 10.3		
	10.0	m 10.1		
		f too blurred to		
		measure.		
	AM 2738			
	8.8			
	AM 782			
	10.0			
	d=0.1			
	AM 806			
	9.8			
	AM 2717			
	11.4			
	h not seen			
	AM 846			
	9.9			
0:20				

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[[preprinted]]22[[/preprinted]]
 [[underlined]]Saturday Oct. 17, 1908[[/underlined]]
 H 1300
 Time 22:40 First Measures contin. 2 in eyepiece
 2 in eyepiece
 [[table]]
 AM 5342|AM 1839|AM 2529|AM 5375|
 10.0 poor images|9.9|~~8~~|9.8|
 AM 4194|AM 2098|AM 2569|AM 5313|
 10.7 good images|11.1|11.2|10.0 Images very faint 1 in. eyepiece|
 AM 4300|AM 459|AM 1258| |
 11.3|11.4 very indistinct 1 in. eyepiece|11.3 1 in eyepiece| |
 AM 4364| AM 5525| AM 1229|AM 4901|
 9.3|11.0|n.s. |~~>~~|~~>~~|<f=0.5 1 in eyepiece|10.4
 1 in eyepiece|
 AM 4746|AM 2801|AM 1411|AM 4212|
 9.6|11.0|n.s. |~~>~~|~~>~~|<c=0.6|11.2|
 AM 4798|AM 2117| AM 1159|
 10.0 good plate|10.0| |n.s. <d=0.0 images elongated|
 AM 4825|AM 2442|AM 1724| |
 11.1|10.5|n.s. |~~>~~|~~>~~|<c=0.1 1 in eyepiece| |
 AM 1808|AM 2478|AM 4053| |
 3 images of each star. Too indistinct to measure|10.0 Very faint. f not
 seen 1 in eyepiece|11.2 1 in eyepiece|
 [[table]]
 24:00

22

Saturday Oct. 17 1908

Time 22:40	First Measures contin.	2 in eyepiece	
AM 5342	AM 1839	AM 2529	AM 5375
10.0	9.9	9.8	9.8
AM 4194	AM 2098	AM 2569	AM 5313
10.7	11.1	11.2	10.0
AM 4300	AM 459	AM 1258	
11.3	11.4	11.3	
AM 4364	AM 5525	AM 1229	AM 4901
9.3	11.0	n.s.	
AM 4746	AM 2801	AM 1411	AM 4212
9.6	11.0	n.s.	
AM 4798	AM 2117	AM 1159	
10.0			
AM 4825	AM 2442	AM 1724	
11.1	10.5	n.s.	
AM 1808	AM 2478	AM 4053	
3 images of each star	Too indistinct to measure	10.0 Very faint. f not seen 1 in eyepiece	11.2 1 in eyepiece

24:00

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[[preprinted]]24[[/preprinted]]
Monday Oct. 19, 1908
H 1300
2:40 First measures (cont.) 1 inch eyepiece
[[table]]
AM 2016|
11.2|
AM 3428|
11.2|
AM 1978|
9.1|
AM 3383|
10.3|
AM 1886|
11.2|
AM 3329|
11.1|
AM 1855|
9.6|
AM 1828|
10.1|
AM 5457|
9.1|
[[/table]]
3:20

24	Monday Oct. 19, 1908
H 1300	
2:40	First measures (cont.) 1 inch eyepiece
AM 2016	11.2
AM 3428	11.2
AM 1978	9.1
AM 3383	10.3
AM 1886	11.2
AM 3329	11.1
AM 1855	9.6
AM 1828	10.1
AM 5457	9.1
3:20	

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[[preprinted]]25[[/preprinted]]
 [[underlined]]Tuesday, Oct. 20, 1908[[/underlined]]
 H. 1300
 22:50 First Measures Continued
 1 in. eyepiece
 [[table]]
 AM 2649|AM 1190|
 9.6|9.6 Images elongated|
 AM 886|AM 501|
 9.2|10.7|
 AM 2922|AM 2606|
 ns ~~[[/strikethrough]]~~>[[/strikethrough]]<f=0.1|11.5|
 |AM 839|
 AM 4884|10.1|
 9.8| |
 |AM 2547|
 AM 4849|10.5|
 11.2| |
 AM 2814| |
 11.1| |
 AM 4400| |
 11.2| |
 AM 4310| |
 11.1| |
 AM 2700| |
 11.2| |
 [[/table]]
 23:10

25

Tuesday Oct 20 1908

H. 1300

22:50 First Measures Continued

AM 2649	AM 1190
9.6	9.6
AM 886	AM 501
9.2	10.7
AM 2922	AM 2606
9.8	11.5
$f = 0.1$	AM 839
AM 4884	10.1
9.8	AM 2547
AM 4849	10.5
11.2	
AM 2814	
11.1	
AM 4400	
11.2	
AM 4310	
11.1	
AM 2700	
11.2	

23:10

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26
 Tuesday, October 20, 1908
 H 1300
 4:30 Second Measures 1 in. eyepiece

AM 2042	9.1
AM 2474	n.s.
AM 3701	10.4
AM 3817	8.9
AM 2504	9.6

 images slightly elongated but clear & reliable
~~AM 2198~~
 4:45

26		Tuesday, October 20, 1908
4:30	H 1300	
	Second Measures	
1 in. eyepiece	AM 2042	9.1
	AM 2474	n.s.
	AM 3701	10.4
	AM 3817	8.9
	AM 2504	9.6
	images slightly elongated but clear & reliable	
	AM 2198	
4:45		

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[[preprinted]]27[[/preprinted]]
 [[underlined]]Wednesday, Oct. 21, 1908[[/underlined]]
 H. 1300
 21:05 2nd measures continued
 1 in. eyepiece
 [[table]]
 [[symbol-check mark]] AM 2198[[symbol-check mark]] AM 1724|
 n.s.|n.s.|
 [[strikethrough]]>[[/strikethrough]]<f=0.1[[strikethrough]]>[[/strikethrough]]
 <c=0.2|
 [[symbol-check mark]] AM 417[[symbol-check mark]] AM 1411|
 10.5|10.6|
 [[symbol-check mark]] AM 4086[[symbol-check mark]] AM 1229|
 10.0|n.s. [[strikethrough]]>[[/strikethrough]]<f=0.4|
 [[symbol-check mark]] AM 4221[[symbol-check mark]] AM 1258|
 11.1|11.2|
 [[symbol-check mark]] AM 1159[[symbol-check mark]] AM 2478|
 n.s. [[strikethrough]]>[[/strikethrough]]d=0.0|10.6|
 |[[symbol-check mark]] AM 2569|
 [[symbol-check mark]] AM 4212|11.3|
 11.1| |
 [[symbol-check mark]] AM 2529| |
 8.9| |
 [[symbol-check mark]] AM 4901| |
 10.4| |
 [[symbol-check mark]] AM 4053| |
 11.1| |
 [[/table]]
 21:35

27

Wednesday, Oct. 21, 1908

21:05 2nd Measures continued

AM 2198	AM 1724
n.s.	n.s.
>	< f=0.1
< c=0.2	
AM 417	AM 1411
10.5	10.6
AM 4086	AM 1229
10.0	n.s.
>	< f=0.4
AM 4221	AM 1258
11.1	11.2
AM 1159	AM 2478
n.s.	d=0.0
AM 2569	
AM 4212	11.3
11.1	
AM 2529	
8.9	
AM 4901	
10.4	
AM 4053	
11.1	

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[[preprinted]]28[[/preprinted]]
 [[underlined]]Thursday, Oct. 22, 1908[[/underlined]]
 H1300
 2:40 Second Measures Cont. 1 1/2 inch eyepiece
 [[table]]
 AM2649|AM4849|AM1978|AM1334|
 9.6|11.1|9.1|11.1|
 AM2547|AM4884|AM3428|AM1363|
 10.6|9.8|11.2|11.2|
 | |Indistinct|
 AM839|AM2922|AM2016| |
 10.1|11.2|11.0|AM3621|
 | |11.0|
 AM2606|AM886|AM4986| |
 11.7|9.2|11.1|AM1389|
 | |10.4|
 AM501|AM5457|AM3520| |
 11.1|9.1|9.9|AM2442|
 | |10.4|
 AM1190|AM1828|AM5046| |
 9.6|10.0|11.2|AM2117|
 | |10.0|
 AM2700|AM1855|AM5300| |
 11.1|9.8|10.8|
 AM4310|AM3329|AM3583| |
 11.1|11.1|11.1|
 AM4400|AM1886|AM5402| |
 11.3|11.3|9.6|
 AM2814|AM3383|AM1224| |
 3:40|11.2|10.1|11.2| |
 [[/table]]

28				
Thursday, Oct. 22, 1908				
7:13:00				
Second Measures Cont. 1 1/2 inch eyepiece				
AM2649	AM4849	AM1978	AM1334	
9.6	11.1	9.1	11.1	
AM2547	AM4884	AM3428	AM1363	
10.6	9.8	11.2	11.2	
			Indistinct	
AM839	AM2922	AM2016	AM3621	
10.1	11.2	11.0	11.0	
AM2606	AM886	AM4986	AM1389	
11.7	9.2	11.1	10.4	
AM501	AM5457	AM3520		
11.1	9.1	9.9		
AM1190	AM1828	AM5046		
9.6	10.0	11.2		
AM2700	AM1855	AM5300		
11.1	9.8	10.8		
AM4310	AM3329	AM3583		
11.1	11.1	11.1		
AM4400	AM1886	AM5402		
11.3	11.3	9.6		
AM2814	AM3383	AM1224		
3:40	11.2	10.1	11.2	

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[[preprinted]]30[[/preprinted]]
 Friday, Oct. 23, 1908
 H 1300
 23:00 Second Measures Cont. Third measures of discordant OK.
 1 1/2 in eyepiece

[[table]]
 AM1799|AM417|AM3499|
 9.9|10.5|10.4|
 AM3682|AM2504|AM2738|
 11.2|~~n.s.~~|11.2|9.2|
 |~~f=0.1~~| |
 AM3306|1 in. eyepiece|AM1363|
 9.8| 11.2|
 |AM501| |
 AM3664|10.8|AM1411|
 9.8| Reject reading|
 |~~AM3383~~|10.6|
 AM1467|AM3604|for 10.6 read 11.1|
 Indistinct|p. | |
 |~~>~~|~~<f=0.4~~|m 10.0|AM1467|
 |f. |Indistinct|
 AM2645|p + f|~~>~~|~~<f=0.4~~|
 8.8|images to faint| |
 ^[[1 in. eyepiece]]AM2478|to measure-|AM3621|
 10.7|middle image fairly distinct|10.6|
 AM2922| | |
 11.1|Reject other measures of p + f. images. | |
 AM1411| | |
 11.1| | |
 [[/table]]

30

Friday Oct 23 1908

H 1300

23:00 Second Measures Cont. Third measures of discordant OK.

AM1799	AM417	AM3499
9.9	10.5	10.4
AM3682	AM2504	AM2738
11.2	n.s.	11.2
AM3306	1 in. eyepiece	AM1363
9.8	11.2	
AM501		
AM3664	10.8	AM1411
9.8	Reject reading	
AM3383	10.6	
AM1467	AM3604	for 10.6 read 11.1
Indistinct	p.	
>	<f=0.4	m 10.0
AM1467		
f.	Indistinct	
AM2645	p + f	> <f=0.4
8.8	images to faint	
^[[1 in. eyepiece]]	AM2478	to measure- AM3621
10.7	middle image fairly distinct	10.6
AM2922		
11.1	Reject other measures of p + f. images.	
AM1411		
11.1		

23:00. Mulach Library, Harvard-Smithsonian Center for Astrophysics. Provided by the NSSA Astrophysics Data System

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 Extracted Mar-27-2023 10:25:08

31
 Friday October 23, 1908
 H. 1300
 1:10 Second Measures cont.
 AM 5313
 9.9
 AM 5320
 n.s. ~~>~~ ~~<d=0.0~~
 AM 5300
 10.8
 AM 5375
 9.8
 AM 5342
 9.9
 1:20

		31
		Friday October 23, 1908
	H. 1300	
1:10	Second Measures cont.	
	AM 5313	
	9.9	
	AM 5320	
	n.s. > <d=0.0	
	AM 5300	
	10.8	
	AM 5375	
	9.8	
	AM 5342	
	9.9	
	1:20	

Project PHaEDRA - at Maria Mitchell Observatory - Measurement of Variable Stars
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 Extracted Mar-27-2023 10:25:08

[[preprinted]]32[[/preprinted]]
 [[underlined]]Tuesday, October 27, 1908[[/underlined]]
 H 1300
 Time 3:15
 Measures of 10 early B plates 1st meas.
 1 1/2 inch eyepiece

B 11139	B 16221
10.5	11.1
B10934	
11.2	
B3543	
10.0	
B9238	
10.0	
B3480	
11.2	
B 34	20 19
11.0	
N 3347	images elongated
11.1	
B 12857	
9.2	
B 13569	
9.2	

3:45

32

Tuesday, October 27, 1908

Time 3:15 Measures of 10 early B plates 1st meas.
 1 1/2 inch eyepiece

B 11139	B 16221
10.5	11.1
B10934	
11.2	
B3543	
10.0	
B9238	
10.0	
B3480	
11.2	
B 34	20 19
11.0	
N 3347	images elongated
11.1	
B 12857	
9.2	
B 13569	
9.2	

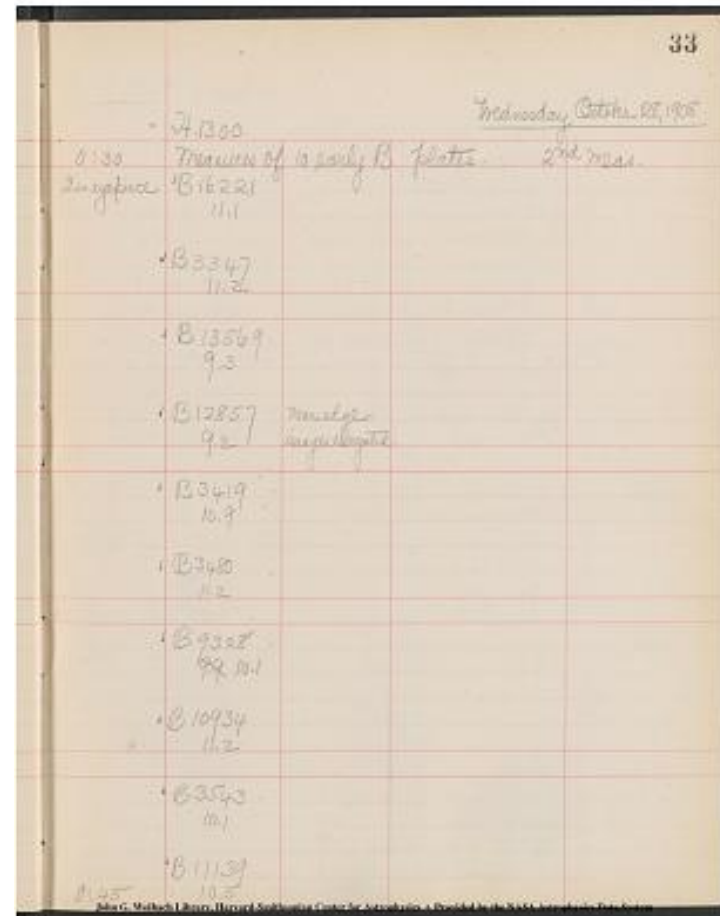
3:45

John G. Mather Library, Harvard-Smithsonian Center for Astrophysics - Provided to the NASA Astrophysics Data System

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 Transcribed and Reviewed by Digital Volunteers
 Extracted Mar-27-2023 10:25:08

[[preprinted]]33[[/preprinted]]
 [[underlined]]Wednesday, October 28, 1908[[/underlined]]
 H 1300
 0:30 Measures of 10 early B plates 2nd meas.
 2 inch eyepiece

B 16221
 11.1
 B 3347
 11.2
 B 13569
 9.3
 B 12857 Near edge-images elongated
 9.2
 B 3419
 10.9
 B 3480
 11.2
 B 9328
~~9.9~~ 10.1
 B 10934
 11.2
 B 3543
 10.1
 B 11139
 10.5
 0:45



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 Extracted Mar-27-2023 10:25:08

[[preprinted]]34[[/preprinted]]
 [[underlined]]Saturday, October 31, 1908[[/underlined]]
 Var. 404. Nova (?) Pyxidis.
 Plates examined - no nova seen.
 [[table]]
 ac5661|1904,12.3|am4159|1906,3.29|ac1046|1900,11.27|
 ac9246|1908,2.7|4198|1906,5.4|am721|1900,11.17|
 am 263|1899,10, 28|4230|1906,5.14|723|1900,11.20|
 332|1899,12,1|4237|1906,5.15|735|1901,3.25|
 340|1899,12,2|4669|1906,11.8|3299|1905,1.8|
 371|1900,2,23|4724|1906,12,13|3377|1905,3.11|
 380|1900,3,3|4735|1907,1,3|3451|1905,4.11|
 415|1900,4,6|4744|1907,3,16|3476*|1905,4.24|
 754|1901,4,10|4755|1907,4,11|3527|1905,5.12|
 785|1901,5,14|4874|1907,5,31|3532|1905,5.13|
 791|1901,5,21|5223|1907,10,17|3555|1905,5.25|
 818|1901,5,28|5254|1907,11,13| | |
 1898|1903,5,4|5263|1907,12,5| | |
 1922|1903,5,7|5276|1908,1,24| | |
 1945|1903,5,16|5278|1908,1,24| | |
 2388|1903,11,19|5291|v 1,30| | |
 2477|1904,3,9|5305|v 2,5| | |
 2494|1904,3,26|5334|1908,3,26| | |
 2521|1904,4,11|5336|1908,3,26| | |
 2642|1904,5,11|5363|1908,4,5| | |
 2648|1904,5,13|5368|1908,4,6| | |
 2722|1904,6,7|5379|1908,4,9| | |
 2741|1904,6,12|5394|1908,4,22| | |
 2800|1904,7,2|5399|1908,4,23| | |
 3283|1904,12,8|5437|1908,5,7| | |
 4068|1906,1,29|5445|1908,5,8| | |
 4123|1906,3,6|5454|1908,5,9| | |
 AM4139|1906,3,24|AM5460|1908,5,10| | |
 [[/table]]
 *For a suspected image see Page 36.

34

Saturday, October 31, 1908

Var. 404. Nova (?) Pyxidis

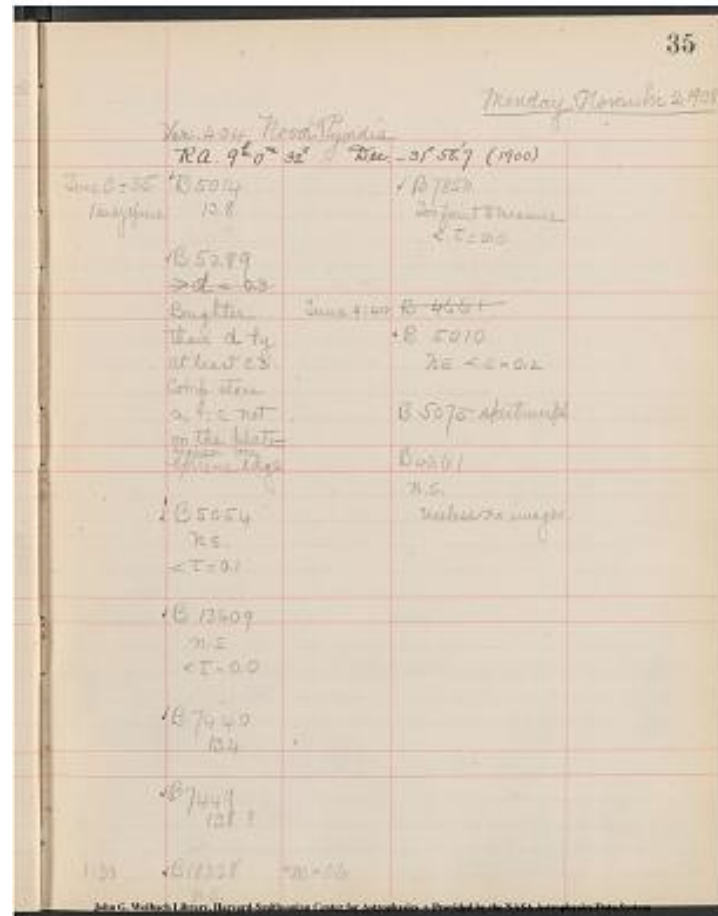
Plates examined - no nova seen.

ac 5661	1904.12.3	am 4159	1906.3.29	ac 1046	1900.11.27
ac 9246	1908.2.7	4198	1906.5.4	am 721	1900.11.17
am 263	1899.10.28	4230	1906.5.14	723	1900.11.20
332	1899.12.1	4237	1906.5.15	735	1901.3.25
340	1899.12.2	4669	1906.11.8	3299	1905.1.8
371	1900.2.23	4724	1906.12.13	3377	1905.3.11
380	1900.3.3	4735	1907.1.3	3451	1905.4.11
415	1900.4.6	4744	1907.3.16	3476*	1905.4.24
754	1901.4.10	4755	1907.4.11	3527	1905.5.12
785	1901.5.14	4874	1907.5.31	3532	1905.5.13
791	1901.5.21	5223	1907.10.17	3555	1905.5.25
818	1901.5.28	5254	1907.11.13		
1898	1903.5.4	5263	1907.12.5		
1922	1903.5.7	5276	1908.1.24		
1945	1903.5.16	5278	1908.1.24		
2388	1903.11.19	5291	v 1,30		
2477	1904.3.9	5305	v 2,5		
2494	1904.3.26	5334	1908.3.26		
2521	1904.4.11	5336	1908.3.26		
2642	1904.5.11	5363	1908.4.5		
2648	1904.5.13	5368	1908.4.6		
2722	1904.6.7	5379	1908.4.9		
2741	1904.6.12	5394	1908.4.22		
2800	1904.7.2	5399	1908.4.23		
3283	1904.12.8	5437	1908.5.7		
4068	1906.1.29	5445	1908.5.8		
4123	1906.3.6	5454	1908.5.9		
AM4139	1906.3.24	AM5460	1908.5.10		

*For a suspected image see Page 36.

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[[preprinted]]35[[/preprinted]]
 [[underlined]]Monday, November 2, 1908[[/underlined]]
 Var. 404 Nova(?) Pyxidis.
 Ra. $9^{\text{h}} 0^{\text{m}}$ Dec. = $31^{\circ} 58'$ (1900)
 Time 0:35
 1 in eyepiece
 [[table]]
 B5014 | B7850 |
 13.8 | too faint to measure |
 | | $t = 0.00$ |
 B5289 | |
 | | $d = 0.3$ | |
 Brighter | Time 4:40 | ~~B4661~~ |
 than d by | B5010 |
 at least 0.3 comp stars | $hs < s = 0.2$ |
 a, b, c not on the plate region on extreme edge | B5075 spectrum pl |
 | | B4661 |
 | | n.s. |
 B5054 | useless no images |
 n.s. | | |
 $< T = 0.1$ | | |
 B13609 | | |
 n.s. | | |
 $< T = 0.1$ | | |
 B13609 | | |
 n.s. | | |
 $< T = 0.0$ | | |
 B7440 | | |
 13.4 | | |
 B7449 | | |
 13.8 ? | | |
 B18228 | $m = 0.6$ | |
 | | n.s. | |
 [[/table]]
 1:30

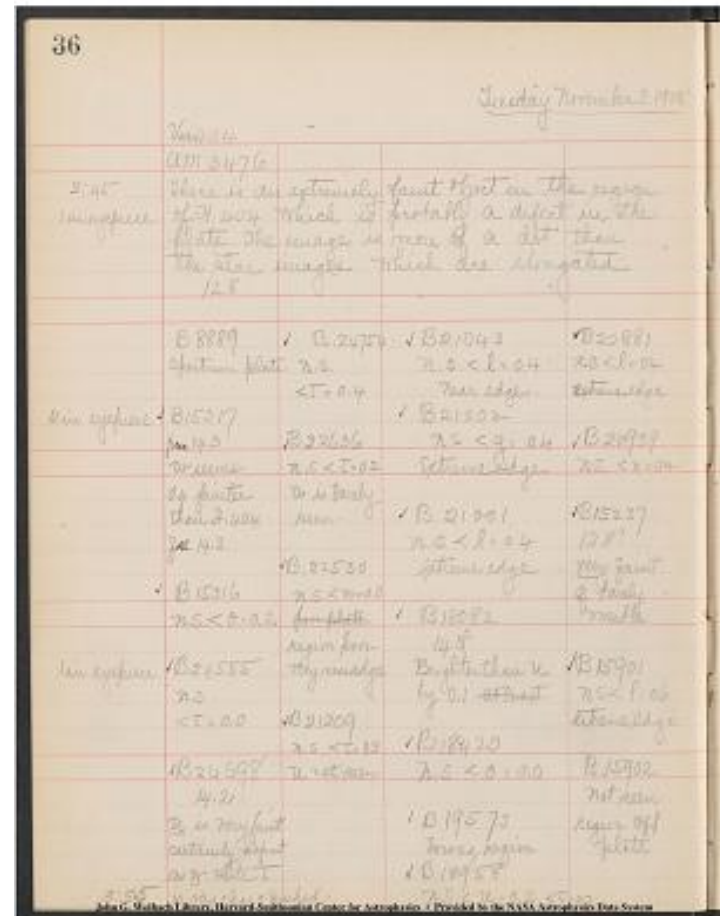


Project PHaEDRA - at Maria Mitchell Observatory - Measurement of Variable Stars
 Transcribed and Reviewed by Digital Volunteers
 Extracted Mar-27-2023 10:25:08

[[preprinted]]36[[/preprinted]]
 [[underlined]]Tuesday November 3, 1908[[/underlined]]
 Var. 404
 2:45
 1 in eyepiece
 AM 3476
 There is an extremely faint object in the region of H. 404 which is probably a defect in the plate. The image is more of a dot than the star images which are elongated.
 12.8
 [[Table]]

B 8889	B 24754	B 21043	B 20881
Spectrum plate N.S. $t = 0.4$ N.S. $< l = 0.4$ near edge			
N.S. $< l = 0.4$ extreme edge			
^[[2 in eyepiece]]B15317 B21002			
prec. 14.3 B22636 N.S. $< g = 0.4$ B20939			
w seems N.S. $< T = 0.2$ Extreme edge N.S. $< N = 0.4$			
0.4 fainter than H.404 w is barely seen.			
B.21001 B15237			
foll. 14.3 N.S. $< l = 0.4$ 12.8?			
B.22530 extreme edge [[underlined]]very[[/underlined]] faint			
B.1536 N.S. $< M = 0.0$ q barely			
N.S. $< O = 0.2$ poor plate B18082			
visible			
region poor 14. 0 3			
^[[1 in eyepiece]] B24555 very near edge Brighter than u B15901			
N.S. by 0.1 at least N.S. $< l = 0.6$			
$< T = 0.0$ B21209 extreme edge			
N.S. $< T = 0.3$ B18420			
B24698 u not seen N.S. $< O = 0.0$ B.15902			
14.2 not seen			
[[underlined]] u [[/underlined]] is very faint B19573 region off			
certainly as faint wrong region plate			
as [[underlined]]w[[/underlined]] white T B18958			
is very clear & marked N.S. $< U = 0.2 < T = 0.7$			

[[/table]]
 3:55



Project PHaEDRA - at Maria Mitchell Observatory - Measurement of Variable Stars
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 Extracted Mar-27-2023 10:25:08

[[preprinted]]37[[preprinted]]
 Tuesday, November 3, 1908
 [[table]]
 Var. 404
 3:55
 [[table]]
 B7659|B25143|
 14.2|14.2|
 B24671|B25163|
 Region not|ns. <600|
 on plate|near edge|
 B24967|B26582|
 n.s.<q=0.0|n.s.q=0.0|
 |near edge|
 B11143|
 n.s.<6=0.0|BR6713|
 |14.2|
 B1669|very faint|
 n.s.<R=0.0|
 B28846|B10949|
 n.s.|Region|
 just [[off]]plate|not on plate|
 |B10950|
 B27132|n.s.|
 n.s.<0=0.0|<q=0.1|
 extreme edge|near edge|
 [[/table]]
 4:15
 contra k56

		37	
		Tuesday November 3, 1908	
Var. 404			
3:55	B7659	B25143	
	14.2	14.2	
	B24671	B25163	
	Region not	ns. <600	
	on plate	near edge	
	B24967	B26582	
	n.s. <q=0.0	n.s. <q=0.0	
		near edge	
	B11143	B26713	
	n.s. <6=0.0	14.2	
	B1164	B27132	
	14.0	14.2	
	B12669	very faint	
	n.s. <2=0.0		
	B28846	B10949	
	n.s.	Region	
	just off plate	not on plate	
		B10950	
	B27132	n.s.	
	n.s. <0=0.0	<q=0.1	
	extreme edge	near edge	

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[[preprinted]]39[[/preprinted]]
 [[underlined]]Tuesday, December 8, 1908[[/underlined]]
 Variable H 2898 Measure of Comparison stars
 Scale from I 32811 2 inch eyepiece

0:20	I 13307			
c5.6	5.8	5.8	5.8	0 0
a4.8	5.0	5.1	5.05	0 1
f5.0	5.2	5.5	5.35	[[underlined]]2[[/underlined]] 1
d6.	[[strikethrough]]2[[/strikethrough]]	0	6.2	6.2 6.20 0 0
e6.3	6.5	6.4	6.45	1 0
f6.5	6.7	7.0	6.85	[[underlined]]1[[/underlined]] 2
g	7.2	7.2	[[strikethrough]]0[[/strikethrough]]	[[strikethrough]]a
h7.5	7.5	[[strikethrough]]0[[/strikethrough]]	[[strikethrough]]a	
k8.2	8.2	[[strikethrough]]0[[/strikethrough]]	[[strikethrough]]a	
1:00				
2:45	I 19515		I 33587	
a	5.2	5.4	5.4	5.40 0 0 a
b	5.5	5.7	5.9	5.80 [[underlined]]1[[/underlined]] 1 b
c	6.0	6.2	6.0	6.10 1 [[strikethrough]]0[[/strikethrough]]
[[underlined]]1	[[/underlined]]	[[underlined]]1	[[/underlined]]	c
[[strikethrough]]d	[[/strikethrough]]	[[strikethrough]]e	6.7	6.9 6.8 6.85 1 0
[[strikethrough]]e	[[/strikethrough]]	[[strikethrough]]d	5.4	5.6 5.0 5.30 3
[[underlined]]13	[[/underlined]]	[[underlined]]13	[[/underlined]]	d
d	6.2	6.4	6.5	6.45 0 1 f
f	5.	[[strikethrough]]6	[[/strikethrough]]	8 6.0 5.8 5.90
1	[[underlined]]1	[[/underlined]]	[[underlined]]1	[[/underlined]]
f	7.5	7.5	[[strikethrough]]0	[[/strikethrough]] a
g	[[strikethrough]]6.0	[[/strikethrough]]	5.9	6.1 6.0 6.05 1 0
k	8.5	8.5	[[strikethrough]]0	[[/strikethrough]] a
k	[[strikethrough]]6.4	[[/strikethrough]]	6.2	6.4 6.4 6.40 0 0
g	7.7	7.7	[[strikethrough]]0	[[/strikethrough]] a
l	[[strikethrough]]5.2	[[/strikethrough]]	5.5	
5.	[[strikethrough]]9	[[/strikethrough]]	7	5.2 5.45
[[strikethrough]]	[[underlined]]2	[[/underlined]]	[[strikethrough]]3	
[[underlined]]2	[[/underlined]]	[[underlined]]2	[[/underlined]]	
h	8.2	8.2	[[strikethrough]]0	[[/strikethrough]] a h
3:45				

39

Tuesday, December 8, 1908

Variable H 2898

Measure of Comparison stars

Scale from I 28811

2 inch eyepiece

0:20

I 13307

c 4.8 5.8 5.8 5.8 0 0

a 4.8 5.0 5.1 5.05 0 1

f 5.2 5.2 5.5 5.35 2 1

d 6.2 6.2 6.2 6.20 0 0

e 6.3 6.5 6.4 6.45 1 0

f 6.5 6.7 7.0 6.85 1 2

g 7.2 7.2 7.2 7.2 0 0

h 7.5 7.5 7.5 7.5 0 0

k 8.2 8.2 8.2 8.2 0 0

1:00

2:45

I 19515

I 33587

a 5.2 5.4 5.4 5.40 0 0 a 4.0 4.2 4.1 4.15 0 1

b 5.5 5.7 5.9 5.80 1 1 b 4.8 5.0 5.00 0 0

c 6.0 6.2 6.0 6.10 1 0 c 5.1 5.3 5.30 0 0

d 6.4 6.4 6.8 6.85 1 0 d 5.4 5.6 5.30 0 1

e 6.2 6.4 6.5 6.45 0 1 e 5.8 6.0 5.90 1 1

f 7.5 7.5 7.5 7.5 0 0 f 6.1 6.0 6.05 1 0

g 8.5 8.5 8.5 8.5 0 0 g 6.4 6.4 6.40 0 0

h 7.7 7.7 7.7 7.7 0 0 h 6.8 6.6 6.45 0 2

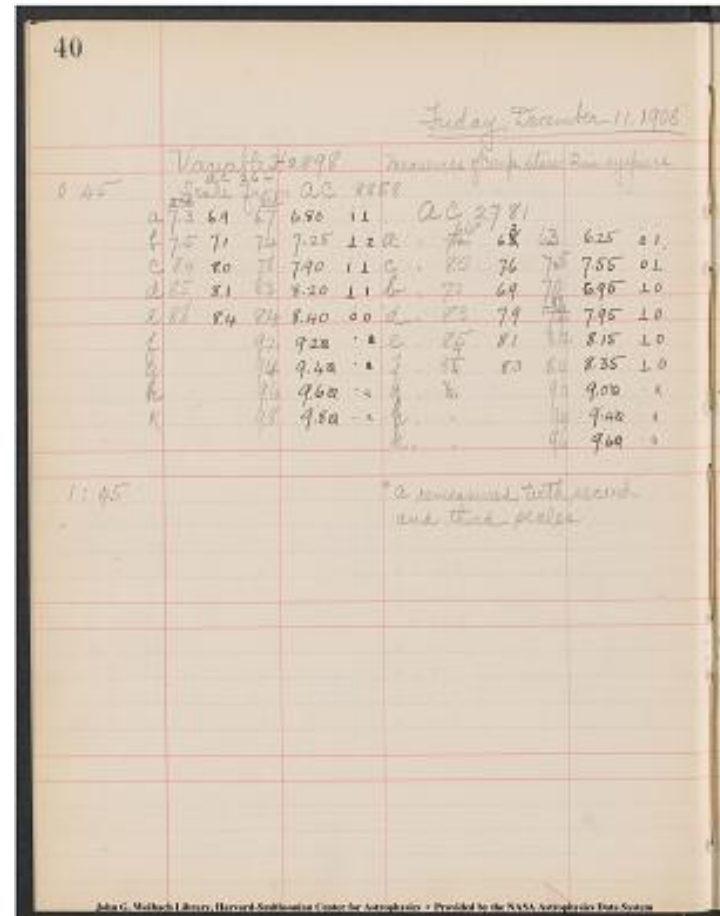
k 8.2 8.2 8.2 8.2 0 0 k 6.2 6.4 6.45 0 1

3:45

Adam C. Malachuk (Bryn Mawr) Harvard Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

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[[preprinted]]40[[/preprinted]]
 [[underlined]]Friday, December 11, 1908[[/underlined]]
 Variable H2898 Measures of comp. stars. 2 in. eyepiece
 0:45 AC 264 Scale from AC 8858
 [[table]]
 a[[underlined]]2nd[[/underlined]] 7.3 6.9 [[underlined]]3rd[[/underlined]]
 6.7|6.80 1 [[underlined]]1[[/underlined]]|AC2781|
 b|7.5 7.1 7.4|7.25 [[underlined]]1[[/underlined]]|2|a .
 [[/skethrough]]7.2[[/skethrough]]6.6*
 6. [[/skethrough]]8[[/skethrough]]2 6.3|6.25 0 1|
 c|8.4 8.0 7.8|7.90 1 [[underlined]]1[[/underlined]]|c . 8.0 7.6 7.5|7.55 0
 [[underlined]]1[[/underlined]]|
 d|8.5 8.1 8.3|8.20 [[underlined]]1[[/underlined]]|1|b . 7.3 6.9 7.0|6.95
 [[underlined]]1[[/underlined]]|0|
 e|8.8 8.4 8.4|8.40 0 0|d . 8.3 7.9
 [[/skethrough]]7.2[[/skethrough]]8.0|7.95 [[underlined]]1[[/underlined]]
 0|
 f|9.2|9.2[[/skethrough]]0[[/skethrough]] . a|e . 8.5 8.1 8.2|8.15
 [[underlined]]1[[/underlined]]|0|
 g|9.4|9.4[[/skethrough]]0[[/skethrough]] . a|f .
 8. [[/skethrough]]5[[/skethrough]]7 8.3 8.4|8.35
 [[underlined]]1[[/underlined]]|0|
 h|9.6|9.6[[/skethrough]]0[[/skethrough]] . a|g .
 [[/skethrough]]6. [[/skethrough]]
 9.0|9.0[[/skethrough]]0[[/skethrough]] . a|
 k|9.8|9.8[[/skethrough]]0[[/skethrough]] . a|h . .
 9.4|9.4[[/skethrough]]0[[/skethrough]] . a|
 | | |k . . 9.6|9.6[[/skethrough]]0[[/skethrough]] . a|
 | | |
 1:45 | | |*a remeasured with|second|
 | | |and third scales| |
 [[/table]]



Project PHaEDRA - at Maria Mitchell Observatory - Measurement of Variable Stars
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41
Saturday December 12, 1908
 Variable H 2898 Measures of comparisons stars.
 0:20 Scale from AC 8858
 [table]
 | AC3193 | AC3184 |
 a. 7.0 6.6 6.8 | 6.70 | 1 | 1 | a . 6.8 6.4 6.6 | 6.50
 | 1 |
 b. 7.2 6.8 7.0 | 6.90 | 1 | 1 | b . 7.2 6.8 7.0 | 6.90
 | 1 |
 c. 7.4 7.0 7.2 | 7.10 | 1 | 1 | c . 7.8 7.4 7.2 | 7.30 1
 | 1 |
 d. 7.8 7.4 7.5 | 7.45 0 1 | d . 8.0 7.6 7.5 | 7.55 0
 | 1 |
 e. 8.0 7.6 7.7 | 7.65 0 1 | e . 8.2 7.8 7.8 | 7.80 0 0 |
 f. 8.4 8.0 8.2 | 8.10 | 0 | 0 | f . 8.4 8.0 8.0 | 8.00 0 0 |
 | 1 |
 g. 8.5 8.1 8.5 | 8.30 | 2 | 2 | g . 8.6 8.2 8.4 | 8.30
 | 1 |
 h. 8.8 8.8 | 0 | 0 | h . 8.8 8.4
 | 8 | 9.0 | 8.70 | 3 |
 k. 9.2 | 9.2 | 0 | 0 | k . 9.2 | 9.20 . a |

1:12

41

Saturday December 12, 1908

	Variable	H 2898	Measures of comparison stars
0:20	Scale from AC 8858		
	AC 3193	AC 3184	
a.	7.0 6.6 6.8	6.70 ± 1	a. 6.8 6.4 6.6 6.50 ± 1
b.	7.2 6.8 7.0	6.90 ± 1	b. 7.2 6.8 7.0 6.90 ± 1
c.	7.4 7.0 7.2	7.10 ± 1	c. 7.8 7.4 7.2 7.30 ± 1
d.	7.8 7.4 7.5	7.45 0 1	d. 8.0 7.6 7.5 7.55 0
e.	8.0 7.6 7.7	7.65 0 1	e. 8.2 7.8 7.8 7.80 0 0
f.	8.4 8.0 8.2	8.10	f. 8.4 8.0 8.0 8.00 0 0
g.	8.5 8.1 8.5	8.30	g. 8.6 8.2 8.4 8.30
h.	8.8 8.8	0	h. 8.8 8.4
k.	9.2	9.20	k. 9.2 9.20 . a

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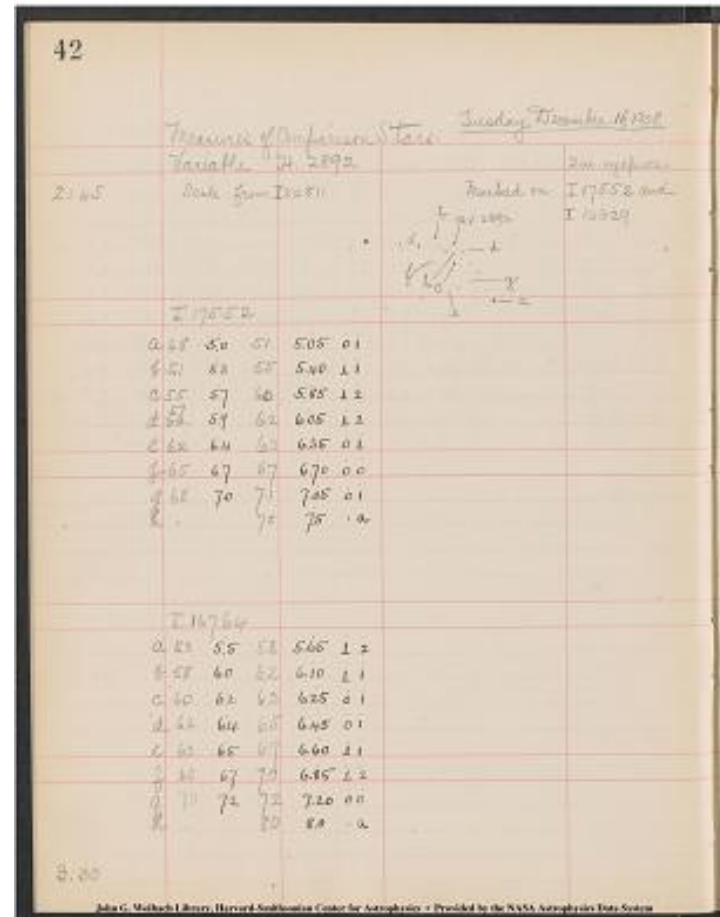
42
Tuesday, December 16, 1908
 Measures of Comparison Stars
 Variable H 2892 2 in. eyepiece
 2.45 Scale from I 32811 Marked on I 17552 and I 16629
 image-star plot
 I 17552

a	4.8	5.0	5.1	5.05	0 1
b	5.1	5.3	5.5	5.40	1 1
c	5.5	5.7	6.0	5.85	1 2
d	6.0	6.0	5.7	6.2	6.05
e	6.2	6.4	6.3	6.36	0 2
f	6.5	6.7	6.7	6.70	0 0
g	6.8	7.0	7.1	7.05	0 1
h	7.5	7.5	a		

 I 16764

a	5.3	5.5	5.8	5.65	1 2
b	5.8	6.0	6.2	6.10	1 1
c	6.0	6.2	6.3	6.25	0 1
d	6.2	6.4	6.5	6.45	0 1
e	6.3	6.5	6.7	6.60	1 1
f	6.5	6.7	7.0	6.85	1 2
g	7.0	7.2	7.2	7.20	0 0
h	8.0	8.0	a		

 3:30

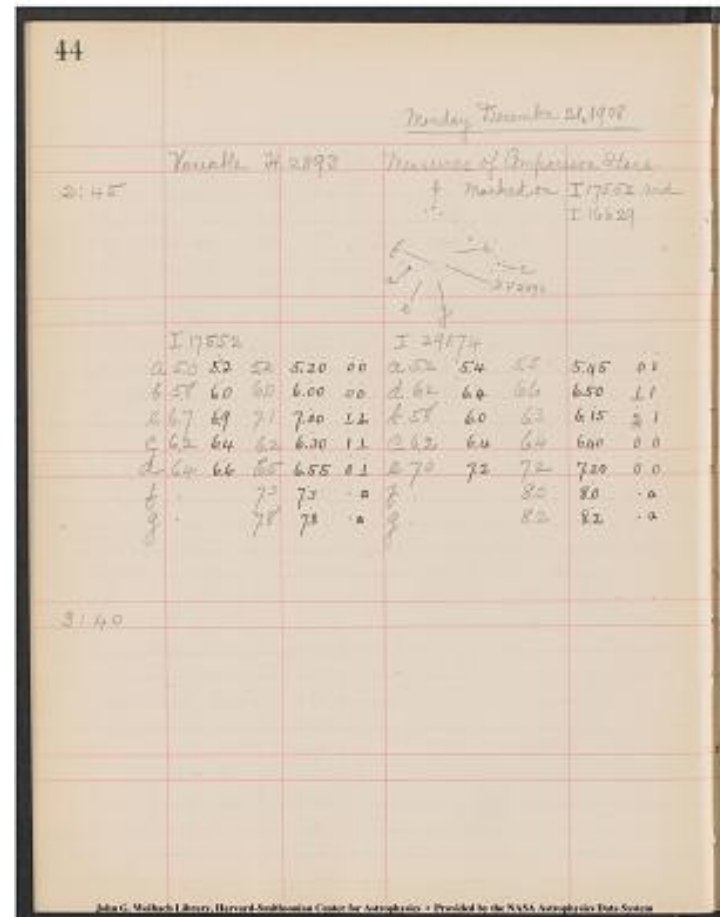


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Monday December 21, 1908
 Variable H. 2893 Measures of Comparison Stars
 2:45 Marked on I 17552 and I 16629

I 17552 I 29874
 a 50 52 5.20 00 a 52 54 55 5.45 0i
 b 58 60 60 6.00 00 d 62 6.4 66 6.50 ii
 e 67 69 71 7.00 ii b 58 6.0 63 6.15 2i
 c 6.2 64 6.2 6.3 ii c 62 6.4 64 6.40 00
 d 64 6.6 65 6.55 0i e 70 7.2 72 7.20 00
 f 73 7.3 a f 8.0 8.0 a
 g. 78 7.8. a g 8.2 8.2 a

3:40



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[[preprinted]]45[[/preprinted]]
 [[underlined]]Tuesday December 22, 1908[[/underlined]]
 Variable H.2893. Measures of Comparisons Stars
 2:45
 [[table]]
 |16764| |16629| |
 a 5.8 6.0 6.2|6.10 [[underlined]]1[[/underlined]] 1|a 5.2 5.4 5.3|5.35 0
 [[underlined]]1[[/underlined]]
 b 6.3 6.5 6.4|6.45 1 0|c 6.0 6.2 6.2|6.20 0 0|
 c 6.4 6.6 7.1|6.85 [[underlined]]2[[/underlined]] 3|f 5.5 5.7 6.0|5.85
 [[underlined]]1[[/underlined]] 2|
 d 6.6 6.8 [[~~6.8~~]]7.2|7.00
 [[underlined]]2[[/underlined]] 2|d 6.2 6.4 6.5|6.45 0 1|
 e . 7.3|7.3 . a|e 6.7 6.9 7.0|6.95 [[underlined]]1[[/underlined]] 0|
 f . 7.8|7.8 . a|f . 7.7|7.7 . a|
 g . 7. [[~~8~~]]9|7.9 . a|g . 7.8|7.8 . a|
 [[/table]]
 3:30

45

Sunday December 22, 1908

Variable	H.2893	Measures of Comparison Stars
2:45 I 16764	I 16629	
2.58 6.0 6.2 6.10 1.1	2.52 5.4 5.3 5.35 0.1	
4.62 6.5 6.4 6.45 1.0	4.60 6.2 6.2 6.20 0.0	
6.34 6.6 7.1 6.85 2.3	6.55 5.7 6.0 5.85 1.2	
6.66 6.8 7.2 7.00 2.2	6.62 6.4 6.5 6.45 0.1	
7.3 7.3 . a	7.67 6.9 7.0 6.95 1.0	
7.8 7.8 . a	7.7 7.7 . a	
7.8 7.8 . a	7.8 7.8 . a	

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[[preprinted]]46[[/preprinted]]
 [[underlined]]Monday December 28, 1908[[/underlined]]
 Variable H 2892 Measures of Comparison stars
 3:00 Scale from ac8858
 [[table]]
 AC4214 | AC5402 |
 1. 2. 3. | 1. 2. 3. |
 a. 7.2 6.8 7.0 | 6.90 | 1 | a. 7.8 7.4 7.2 | 7.30 1
 [[underlined]]1[[/underlined]]
 b. 7.7 7.3 7.2 | 7.25 1 | 1 | b. 8.1 7.7 7.6 | 7.65 1 0 |
 c. 8.2 7.8 7.4 | 7.60 2 | 2 | c. 8.2 7.8 8.2 | 8.00
 [[underlined]]2[[/underlined]] 2 |
 1. 2. 3. | 1. 2. 3. |
 d. 8.3 7.9 8.2 | 8.05 | 1 | d. 8.4 8.0 8.3 | 8.15
 2 | 1 |
 e. 8.6 8.2 8.4 | 8.30 | 1 | e. 8.8 | 8.8
 f. 8.7 | 8.7 | f. 9.3 | 9.3 | 2 |
 g. 8.7 | 8.7 | g. 9.7 9.7
 h. 9.8 | 9.8 | h. 10.2 10.2

[[table]]
 AC3959 | AC5369 |
 1. 2. 3. | 1. 2. 3. |
 a. 7.5 7.1 7.2 | 7.15 | 1 | a. 7.3 6.9 6.7 | 6.80 1
 [[underlined]]1[[/underlined]]
 b. 8.0 7.6 7.8 | 7.70 1 | 1 | b. 7.6 7.2 7.3 | 7.25 0 1 |
 c. 8.2 7.8 8.1 | 7.95 2 | 2 | c. 8.2 7.8
 8.1 | 7.95 | 2 | 1 |
 d. 8.5 8.1 8.3 | 7.95 | 1 | d. 8.3 7.9 7.8 | 7.85 1 0 |
 e. 8.8 8.4 8.6 | 8.50 | 1 | e. 8.6 8.2 8.3 | 8.25 0 1 |
 f. 9.4 | 9.4 | f. 8.8 8.4 8.6 | 8.50 | 1 |
 g. 9.5 | 9.5 | g. 8.8 8.8
 h. 10.0 | 10.0 | h. 9.4 9.4

46

Monday December 28, 1908

Variable H 2892 Measures of Comparison stars
 Scale from AC 8858

AC 4214				AC 5402			
a.	7.2	6.8	7.0	a.	7.8	7.4	7.2
b.	7.7	7.3	7.2	b.	8.1	7.7	7.6
c.	8.2	7.8	7.4	c.	8.2	7.8	8.2
d.	8.3	7.9	8.2	d.	8.4	8.0	8.3
e.	8.6	8.2	8.4	e.	8.8		
f.	8.7			f.	9.3		
g.	8.7			g.	9.7		
h.	9.8			h.	10.2		

AC 3959				AC 5369			
a.	7.5	7.1	7.2	a.	7.3	6.9	6.7
b.	8.0	7.6	7.8	b.	7.6	7.2	7.3
c.	8.2	7.8	8.1	c.	8.2	7.8	
d.	8.5	8.1	8.3	d.	8.3	7.9	7.8
e.	8.8	8.4	8.6	e.	8.6	8.2	8.3
f.	9.4			f.	8.8	8.4	8.6
g.	9.5			g.	8.8		
h.	10.0			h.	9.4		

4115

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[[preprinted]]48[[/preprinted]]
 [[underlined]]Tuesday, January 26, 1909[[/underlined]]

Variable H2892 First measures 2 in. eyepiece
 0:30

[[table]]
 AC5606|AC5314|AC3932|
 8.8 images elongated|8.7|8.4|
 AC5548 good plate|AC5300|AC3924|
 8.6 |8.7| 8.6 C seems brighter than b c = 8.2|
 AC5176|AC5271| |
 8.8|8.6| |
 AC1161|AC5219|AC3917|
 8.8|8.8|8.2|
 AC5822|AC5196|AC3849|
 8.8|8.8|8.7|
 AC5723|AC4619|AC3790|
 8.8|8.8|8.2|
 AC5685|AC4555|AC3747|
 8.8|8.8|8.2|
 AC5480|AC4395|AC3746|
 8.7|8.8|8.2 images elongated|
 AC5402|AC[[strikethrough]]8[[/strikethrough]]3959| |
 8.7|8.4| |
 AC5369|AC3937| |
 8.7|8.4| |
 [[/table]]
 1:15

48			
Tuesday, January 26, 1909			
	Variable H2892	First measures	2 in. eyepiece
0:30	AC 5606 8.8	AC 5314 8.7	AC 3932 8.4
	AC 5548 good plate 8.6	AC 5300 8.7	AC 3924 8.6
	AC 5176 8.8	AC 5271 8.6	AC 3917 8.2
	AC 1161 8.8	AC 5219 8.8	AC 3849 8.2
	AC 5822 8.8	AC 5196 8.8	AC 3790 8.7
	AC 5723 8.8	AC 4619 8.8	AC 3747 8.2
	AC 5685 8.8	AC 4555 8.8	AC 3746 8.2
	AC 5480 8.7	AC 4395 8.8	AC 3746 8.2
	AC 5402 8.7	AC 83959 8.4	images elongated
	AC 5369 8.7	AC 3937 8.4	

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[[preprinted]]49[[/preprinted]]
 Tuesday, January 26, 1909
 Variable H 2892 First Measures
 3:15
 [[table]]
 ac5597|~~ac~~|ac5773|
 8.7| 8.6|
 <C; C seems| | |
 as bright as b| |ac5925|
 | | 8.8|
 ac5566| | |
~~ac5597~~|<|>c. c appears| 8.8|
 its estimated brightness = 8.7| |ac5979|
 | | 8.8|
 ac5525| | |
 8.8| |ac5990|
 | | 8.8|
 ac5232| | |
 8.8| |ac3376|
 | | 8.6|
 ac5377| |c>b; c=8.2|
 8.5| | |
 <c.c>b| |ac4035|
 c=8.2| 8.6|
 ac5709| |ac4139|
 8.7| 8.4|
 | |c>b.c=8.2|
 ac5737| | |
 8.8| |ac4551|
 | | 8.8|
 [[/table]]

		Tuesday, January 26, 1909	
3:15	Variable H 2892	First measures	
	ac 5597	ac 5773	
	8.7	8.6	
	<C; C seems		
	as bright as b	ac 5925	
		8.8	
	ac 5566		
	8.5	ac 5933	
	ac 5597	8.8	
	its estimated		
	brightness = 8.7	ac 5979	
		8.8	
	ac 5525		
	8.8	ac 5990	
	ac 5232		
	8.8	ac 3376	
		8.6	
	ac 5377	c>b; c=8.2	
	8.5		
	<c.c>b	ac 4035	
	c=8.2	8.6	
	ac 5709	ac 4139	
	8.7	8.4	
		c>b.c=8.2	
	ac 5737		
	8.8	ac 4551	
		8.8	

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Thursday, January 28, 1909

Variable H2892. First measures 2 in. eyepiece

[[5 column table]]

|0:40|AC3299|AC4180|AC4398|AC2306|

|8.5|8.~~5~~|6|8.~~8~~|6|8.6|

$$|c=b=8.3|c=8.5|[\text{c} < b=8.2] \text{-----} |c=8.4|$$
[illegible]

|AC5186|AC4262|8.5|8.7|

$$|8.7|8.|\text{[strikethrough]}5|\text{[/strikethrough]}4|c=8.4|c=8.2|$$

	c=8.5		
--	-------	--	--

|AC5331|very good images

[[~~strickethrough~~]]plate[[/delstrickethrough]]|AC2235|AC2913|

|8.5| |8.5|8.2|

|c=b=8.3|AC4367|c=8.7|c=8.5|

not a very good	9.0		
-----------------	-----	--	--

|plate|c|~~[[strikethrough]]~~>[[/strikethrough]]=b=8.3| |AC2938|

$$| \frac{d}{dt} [\text{strickethrough}]c = 8.1 [/\text{strickethrough}] | \quad | 8.6 |$$

|1:20| | | |c=8.7

AC3108	AC3255
--------	--------

2:45|AC2987|c=8.5|8.6|AC1015|

|8.6|m=8.2|c=8.4|9.0|

$ c=8.3 $	$ c=8.3 $
1.0×10^{-1}	1.0×10^{-1}

|AC3118|AC71|(1 in eyepiece)|

|AC3009|8.2|9.0|AC680|

|8.~~2~~3|c=8.5|c=8.5|8.5|

|AC3183|AC1030|(1 in eyepiece)|

AC3061	8.5	9.1	AC664
12.5	12.2	7.2	12.2

|8.5|c=8.2|c=7.6|8.9|

|c=8.6|(1 in eyepiece)|Images faint|c=8.2|
 (1 in eyepiece)|A 00100|1 in eyepiece

(1 in eyepiece) AC3199	1 in eyepiece
201 12.55 (tilt) 13.55 (tilt)	201 12.55 (tilt) 13.55 (tilt)

|3:30| 8.~~5~~6 c=8.4| |

[illegible]

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1:15

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[[preprinted]]52[[/preprinted]]

Friday January 29, 1909

H2892 First measures

[[table]]

3:10 | AC 9124 |

| 9.0 |

| c=8.2 |

3:20 |

[[/table]]

See page 42 diagram of region of H 2892.

The difference between a and b seems greater than my computed value of 0.5 magn. I have therefore taken a' as a temporary comparison star and call the difference in magn. between a and a' 0.6. On I 16629 b is 0.1 fainter than a'. On AC 4262 b is 0.1>a'. b is .3>d c is 0.2>d Var is .1<c = .1>d

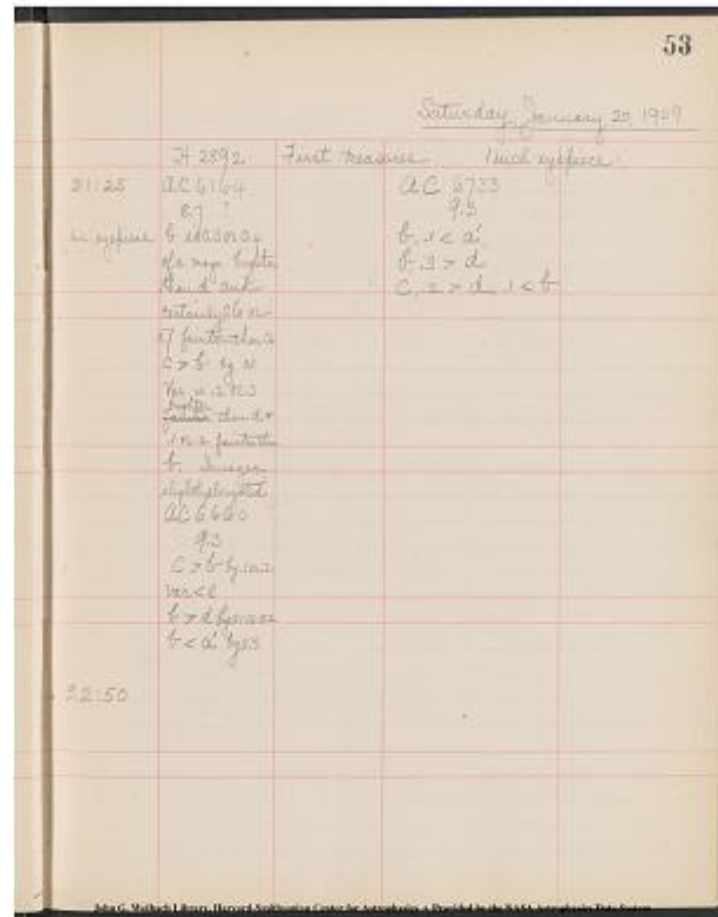
52			
			Friday, January 29, 1909
	H 2892	First measures	
3:10	AC 9124		
	9.0		
	c = 8.2		
3:20			
	See page 42 diagram of region of H 2892. The difference between a and b seems greater than my computed value of 0.5 magn. I have therefore taken a' as a temporary comparison star and call the difference in magn. between a and a' 0.6. On I 16629 b is 0.1 fainter than a'. On AC 4262 b is 0.1>a'. b is .3>d c is 0.2>d Var is .1<c = .1>d		

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[[preprinted]]53[[/preprinted]]
 [[underlined]]Saturday, January 20, 1909[[/underlined]]
 H 2892 First measures 1 inch eyepiece.
 21:25
 [[table]]
AC6164	AC6733	
8.7 ?	9.3	
1 in. eyepiece	b is 0.3 or 0.3	b, .1 < a'
of a magn. brighter	b, .3 > d	
than d and	c, .2 > d, .1 < b	
certainly 0.6 or 0.7 fainter than a	c > b by 0.1	
Var. is .2 or .3	~~fainter~~	~~brighter~~ than d +
.1 or .2 fainter than b. Images slightly elongated		
AC6660		
9.3		
C > b by .1 or .2		
var < b		
b > d by 0.1 or 0.2		
b < a' by 0.3		
 [[/table]]
 22:50



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54
Monday February 1, 1909

H2892 First Measures:
0.40 AC6766
9.3
b < a' by 0.2
c < a' by 0.1
c < a by 0.3
<u>d</u> seems at least 0.4 magn brighter than
<u>e</u>
H6784

54

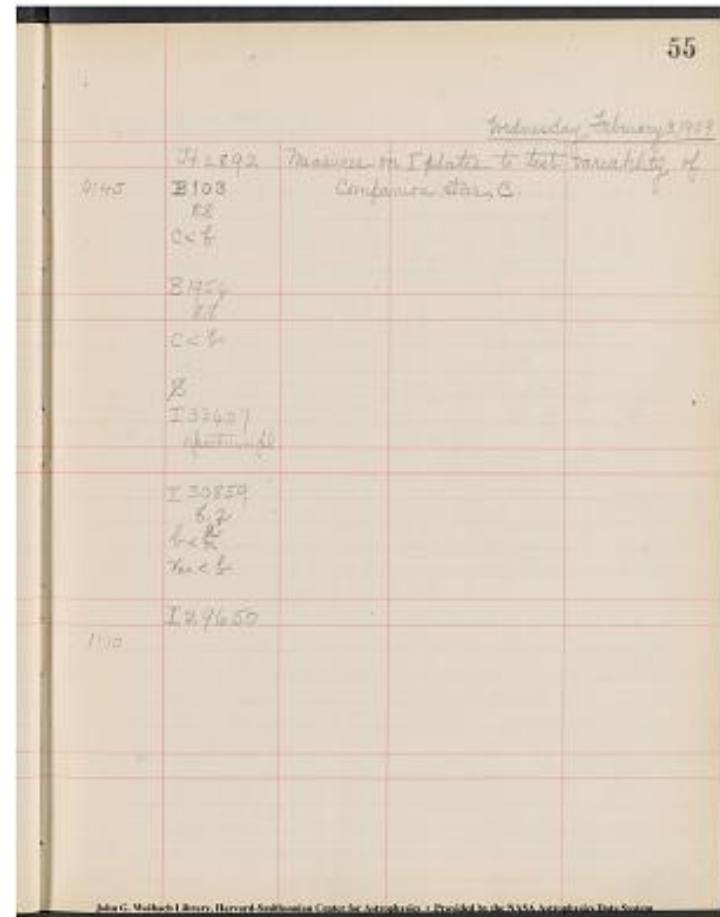
Monday February 1, 1909

0.40	H2892	First Measures
	AC6766	
	9.3	
	b < a' by 0.2	
	c < a' by 0.1	
	c < a by 0.3	
	d seems at	
	least 0.4 magn	
	brighter than	
	e	
	H6784	

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[[preprinted]]55[[/preprinted]]
 [[underlined]]Wednesday, February 3, 1909[[/underlined]]
 H2892 Measures on I plates to test variability of
 Companion star C.
 0.45
 B103
 8.8
 c<b
 B1954
 8.8
 c<b
 [[strikethrough]] B [[/strikethrough]]
 I33407
 spectrum pl
 I30859
 8.2
 b<[[strikethrough]] b [[/strikethrough]] a'
 Var<b
 I29650
 1:10



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Tuesday August 2, 1910

| Variable 404 |

[[crossed-out]]12[[/crossed-out]]0:10|A 9180|

111

|not in region|

|not in region|

AC 11306

223

|0:15|n.s <0|

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57

Friday, Sept. 30, 1910

Variable 404 1 1/2 eyepiece + 2 in eyepiece

[[5 column table]]

0:10|AM6833|AM6816|AM852|continuation p. 37|

|n.s.<k|n.s.<0|n.s. very poor images| |

| | |a, the only comp. star|identified|

AM6845|AM6851|AM6874| |

|n.s.<g|poor plate|n.s.<l| |

|images of| | |

AM6882|comparison|AM6894| |

|n.s.<h|stars not poor|n.s.<q| |

| | |very clear images| |

AM6064|AM6900| | |

13.4|n.s.<n|AM6059| |

very faint| |to poor to measure| |

T not seen|AM6904|images of comp. stars| |

|n.s.<n|not seen| |

AM6712| | | |

|n.s.<n|AM6923|AM6853| |

|n.s.<m|n.s.<C| |

AM6760| |very poor images| |

|n.s.<s|AM6959| | |

images elongated|n.s.<o| | |

| | | |

AM6767|AM6965| | |

|n.s.<h|n.s.<m| | |

0:50| | | |

57

Friday, Sept 30 1910

Variable 404	1 1/2 eyepiece + 2 in eyepiece	2 in eyepiece
0:10 AM 6833 AM 6816 AM 6852	AM 6833 AM 6816 AM 6852	AM 6833 AM 6816 AM 6852
ns < k ns < 0 ns. very poor images	ns < k ns < 0 ns. very poor images	ns < k ns < 0 ns. very poor images
a, the only comp. star identified	a, the only comp. star identified	a, the only comp. star identified
AM 6845 AM 6851 AM 6874	AM 6845 AM 6851 AM 6874	AM 6845 AM 6851 AM 6874
ns < g poor plate ns < l	ns < g poor plate ns < l	ns < g poor plate ns < l
images of	images of	images of
AM 6882 comparison AM 6894	AM 6882 comparison AM 6894	AM 6882 comparison AM 6894
ns < h stars not poor ns < q	ns < h stars not poor ns < q	ns < h stars not poor ns < q
very clear images	very clear images	very clear images
AM 6064 AM 6900	AM 6064 AM 6900	AM 6064 AM 6900
13.4 ns < n AM 6059	13.4 ns < n AM 6059	13.4 ns < n AM 6059
very faint to poor to measure	very faint to poor to measure	very faint to poor to measure
T not seen AM 6904 images of comp. stars	T not seen AM 6904 images of comp. stars	T not seen AM 6904 images of comp. stars
ns < n not seen	ns < n not seen	ns < n not seen
AM 6712	AM 6712	AM 6712
ns < n AM 6923 AM 6853	ns < n AM 6923 AM 6853	ns < n AM 6923 AM 6853
ns < m ns < C	ns < m ns < C	ns < m ns < C
AM 6760 very poor images	AM 6760 very poor images	AM 6760 very poor images
ns < s AM 6959	ns < s AM 6959	ns < s AM 6959
images elongated ns < o	images elongated ns < o	images elongated ns < o
AM 6767 AM 6965	AM 6767 AM 6965	AM 6767 AM 6965
ns < h ns < m	ns < h ns < m	ns < h ns < m
0:50	0:50	0:50

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58
 Saturday October 8, 1910
 [[3 Columned Table]]
 |Variable 404 1 1/2 inch eyepiece.| |
 ---|---|---|
 22:25|AC11355|B39850|
 |n.s.<n| |
 | |
 |AC11409| |
 |n.s.<h| |
 | |
 |AC11423| |
 |n.s.<|[[?]]| |
 | |
 |AC11504| |
 |n.s.<h| |
 | |
 |AC11575| |
 22:23|n.s.<|[[?]]| |

58		
Saturday, October 8, 1910		
Variable 404 1 1/2 inch eyepiece		
22:25	AC 11355	B39850
	n.s.<n	
	AC 11409	
	n.s.<h	
	AC 11423	
	n.s.< [[?]]	
	AC 11504	
	n.s.<h	
	AC 11575	
22:23	n.s.< [[?]]	

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[[preprinted]]59[[preprinted]]

[[underlined]]070207[[/underlined]] Plates on which variable in
Monoceros can be seen

I 17657

B 31294

AM 339 Iso.

AC 12763

AC 12810

AC 12849 Iso.

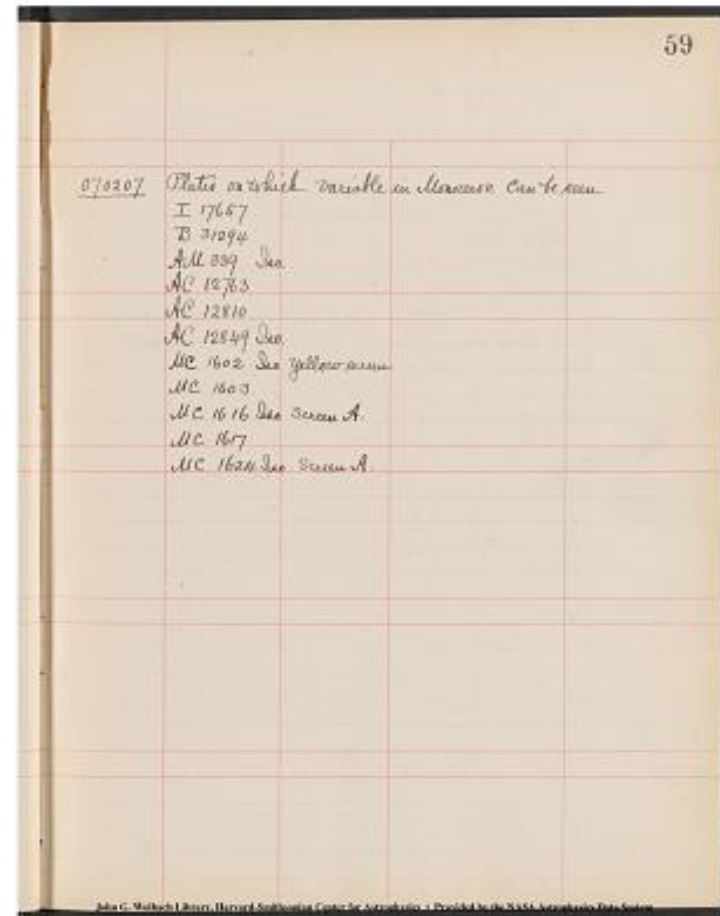
MC 1602 Iso yellow screen

MC 1603

MC 1616 Iso screen A.

MC 1617

MC 1624 Iso screen A.



Project PHaEDRA - at Maria Mitchell Observatory - Measurement of Variable
Stars

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60
 Friday, February 20, 1912
 RY Monocerotis 070207
~~23:00~~ 11 A.M.
 MC 1624 Iso.
 a'2v|cfd with X Mon. |
 v|~~1~~|~~a~~|
 b| Near edge: a not on plate.
 v=7.4 | |
 MC 1617 | |
 k1v1 | |
 (10.6)3,4(11.4^k)v=~~11.0~~
 10.9| Compared with comparison stars of X Monocerotis. Near edge of plate.
 MC 1616 Iso. | |
 v=b|v>a |
 a2v | |
 v=7.4 | |
 MC 1603 | |
~~1603~~ | |
 v1k | |
 v2(18.6^g)v = 10.4| Comp'd with comp. stars of X Mon. Near edge
 MC 1602 Iso. | |
 v1b'|v>a|(a=7.5)
 a'1v | |
 v=7.3 | |
 v=7.3 | |

60
 Friday February 20, 1912
 RY Monocerotis 070207
 MC 1624 Iso. a'2v | cfd with X Mon. |
 v | ~~1~~ | ~~a~~ |
 b | Near edge: a not on plate.
 v=7.4 | |
 MC 1617 | |
 k1v1 | |
 (10.6)3,4(11.4^k)v=~~11.0~~
 10.9 | Compared with comparison stars of X Monocerotis. Near edge of plate.
 MC 1616 Iso. | |
 v=b | v>a |
 a2v | |
 v=7.4 | |
 MC 1603 | |
~~1603~~ | |
 v1k | |
 v2(18.6^g)v = 10.4 | Comp'd with comp. stars of X Mon. Near edge
 MC 1602 Iso. | |
 v1b' | v>a | (a=7.5)
 a'1v | |
 v=7.3 | |
 v=7.3 | |

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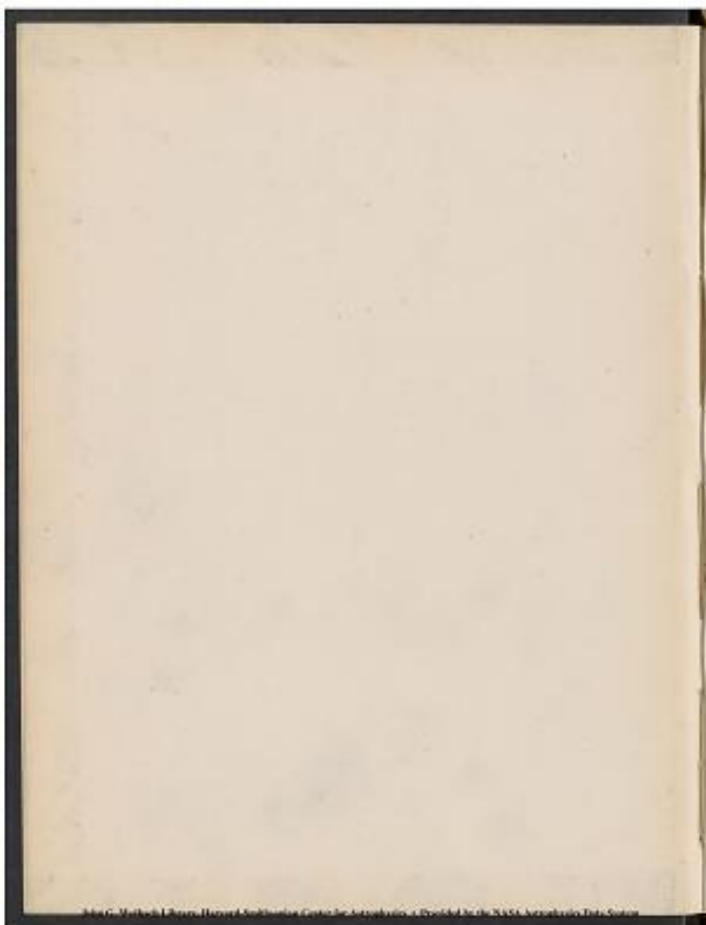
61

[[no input]]



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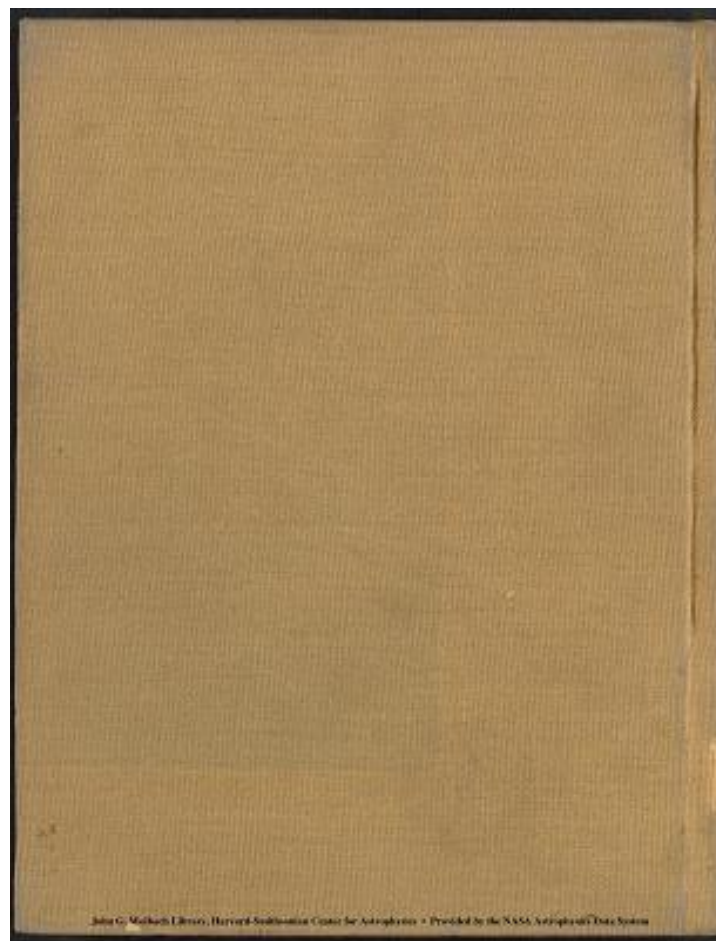
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Project PHaEDRA - at Maria Mitchell Observatory - Measurement of Variable
Stars
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