

KG

11365

756

KG 11365 .756

Journal of Observations
made with Plot A on 5" by L. Campbell

NG 11365, 756



Saturday, Sept. 26, 1903

JD. 6384

E.M.T. Design.

A.D.

P 1P	R Regaum	292	.08	9.34
	var	308	.05	9.60
	n	302	.02	9.64
P 2A	var	295	.05	9.54

mean Magn. Var. 9.57

Vaguiolae

Monday, Sept. 28, 1903

JD. 6386

7 49	^{-5.4846} f	098	.06
52	Var	1.41	.03
54	^{-6.5005} g	1.92	.10
57	var	1.41	.06

P 12	+75.547	1.33	.05
15	+75.545	1.48	.06
17	+75.547	1.27	.05
20	+75.545	1.52	.08

Pleiades

Friday October 2, 1903.

JD. 6390

10 14	f	1.72	.04
17	g	1.77	.06
20	h	1.98	.10
23	f	1.49	.05
26	g	1.62	.12
28	h	1.90	.03

artificial star very red making observations difficult.

10 46	2 Ceti f	1.50	.06	9.60
50	var	1.53	.03	
56	S	2.06	.08	9.82
59	var	1.54	.12	

Friday Oct. 2, 1903. JD. 6390.

E.M.T.	Desig.		ad.
11 09	+147.48	1.39	.08
11	Vesta	1.99	.08
15	Vesta	1.99	.12
21	+147.45	2.13	.03

T Cassiope

Saturday Oct. 3, 1903

JD. 6391

7 27	f	2.47	.06
30	var	2.83	.06
33	g	2.55	.02
37	var	2.86	.07

Pleiades

9 32	f	2.16	.03
	g	2.30	.04
	h	2.81	.04
	f	2.12	.06
	g	2.41	.07
9 42	h	2.84	.12
10 40	+75.547	2.21	.09
	+75.545	2.34	.09
	+75.547	2.15	.15
46	+75.545	2.30	.10

Tuesday Oct. 6, 1903

JD. 6394

9 54	+75.547	1.48	.06
	+75.545	1.60	.06
	+75.547	1.48	.02
10 00	+75.545	1.60	.04

Tuesday Oct. 6, 1903 J.D. 6394

E.M.T. Desig. AD.

11 00 γ Cygni
 l 1.46 .03
 var 1.41 .06
 k 0.98 .07
 11 06 var 1.32 .01

Tuesday Oct. 13, 1903 J.D. 6401

R Cygni
 10 30 l 1.30 .01
 var 0.24 .02
 m 1.37 .04
 38 var 0.37 .05

 δ Cygni

11 06 k 1.78 .04
 var 2.36 .02
 l 2.23 .05
 14 var 2.44 .03

R Urs. Maj.

Wednesday Oct. 14, 1903 J.D. 6402

9 06 g 1.16 .03
 var 1.60 .06
 h 1.60 .04
 12 var 1.71 .03

T Urs. Maj.

9 15 e 1.44 .04
 var 1.55 .03
 f 1.61 .05
 21 var 1.56 .03

4

Wednesday Oct 14, 1903 JD. 6402

E.M.T. Desig.		A.D.	
S'Z Cygni			
10	05	var	2.70 .02
		l	2.07 .05
		k	1.58 .04
15		var	2.34 .02
17		m	2.17 .07

Monday Oct. 19, 1903 JD. 6407

S' Bootis			
f	30	e	1.59 .06
	33	var	1.69 .07
	36	f	2.20 .06
	39	var	1.65 .10

R Delphini			
s	54	f	1.52 .08
	56	var	1.77 .04
	58	m	2.55 .04
9	00	var	1.78 .06

S' Cygni			
10	20	c	1.53 .04
	23	var	1.76 .04
	26	f	1.94 .02
	28	var	1.70 .08

Tuesday Oct. 20, 1903 J.D. 6408

E.M.T. Desig. A.D.

T Hercules

9 17 m 1.58 .05

19 var 2.29 .06

21 n 1.92 .06

24 var 2.32 .06

R Camelopard.

9 33 α 1.20 .06

36 var 1.15 .07

39 d 1.58 .01

42 var 1.10 .08

Wednesday Oct. 21, 1903 J.D. 6409

10 11 +14738 1.52 .06

14 Vesta 1.46 .02

16 +14745 2.02 .04

19 Vesta 1.48 .02

Telescope diaphragmed to 2"

Pleiades.

Monday Oct. 26, 1903 J.D. 6414

9 08 f 1.33 .06

10 g 1.56 .09

12 h 1.80 .12

14 f 1.35 .04

17 g 1.52 .07

19 h 1.75 .04

Telescope diaphragmed to 2"

10 38 +14738 0.68 .08

41 Vesta 0.54 .06

43 +14745 1.52 .03

45 Vesta 0.54 .07

47 +14751 1.56 .04

Telescope diaphragmed to 2"

Tuesday Oct 27, 1903 JD 6415.

E.M.T. Desig.

Pleiades.

2" cap used.

8	12	f	1.22	±.08
	16	g	1.39	.06
	19	h	1.66	.04
	23	f	1.00	.04
	26	g	1.10	.08
8	30	h	1.42	±.08

Remark: - Second series more difficult than the first. Artificial stars became suddenly fainter and more ill defined as a star. Possibly connections became loosened.

Vesta

2" cap used.

10	58	14.738	0.66	.06
11	00	Vesta	0.76	.04
	02	14.745	1.55	.04
	04	Vesta	0.82	.04
11	07	+14.751	1.60	.08

B Bootis

Wednesday, Oct 28, 1903 JD 6416

7	47	e	1.86	.06
	50	var	1.78	.04
	52	c	1.31	.04
	54	var	1.78	.06

Thrs Maj.

7	56	e	1.54	.06
	58	var	1.39	.08
A	00	f	1.59	.01
	02	var	1.39	.06

Wednesday Oct. 28^S 1903.

Mr. Maj.

S 37	C	1.03	.04
39	var	1.33	.03
41	g	1.70	.06
43	var	1.32	.02

Rms. Maj.

S 46	g	0.82	.01
48	var	1.68	.05
50	h	1.21	.07
52	var	1.73	.07

Thursday Oct. 29, 1903.

2" cop.

J.D. 6417

Pleiades

S 54.8	f	1.14	.04
56.8	g	1.38	.01
59.1	h	1.51	.09
9 1.1	f	1.20	.12
2.9	g	1.39	.05
5.7	h	1.56	.04

Kesta

2" cop.

9 26.1	+14.738	1.02	.06
29.1	Kesta	1.16	.06
32.1	+14.745	1.78	.02
35.3	Kesta	1.22	.09
10 2.7	+14.751	1.76	.04
5.1	Kesta	1.04	.01
7.1	+14.738	.89	.07
10.8	+15.670	1.90	.06
13.1	Kesta	1.04	.05

Stopped to record at 15" telescope
2" cop.

Thursday Oct. 29, 1903

Neptune.

2" cap.

12	15.8	+22.1352	0.76	.10
18.9	Neptune	1.36	.03	
21.9	+22.1364	0.98	.08	
24.1	Neptune	1.28	.05	
26.3	+21.1268	1.26	.04	
29.3	Neptune	1.31	.07	
32.7	+21.1270	1.60	.02	

R Leo Min.

2" cap.

12	57.8	e	0.92	.05
59.3	var	1.16	.02	
13	1.3	g	1.64	.06
37	var	1.17	.07	

RCancer.

2" cap.

13	57.03	f	1.24	.04
14	0.3	var	0.49	.04
2.5	h	1.60	.02	
4.5	var	0.54	.04	

R Leonis.

2" cap.

14	31.9	m	1.33	.05
33.3	var	1.07	.04	
35.3	n	1.60	.02	
38.3	var	1.05	.03	

Friday Oct. 30, 1903 J.D. 6418.

T Herculis

full aperture.

7	24.3	m	1.92	.06
	26.3	var	1.64	.02
	28.9	n	1.97	.05
	31.7	var	1.64	.04

RCamelopard

Full aperture

7	44.3	c	1.38	.02
	47.3	var	0.80	.06
	49.9	d	1.68	.03
	51.7	var	0.84	.04

Vagvilae

Saturday Oct. 31, 1903. J.D. 6419.

7	25.3	^{5.4846} f	1.48	.04
	26.8	var	1.46	.02
	29.1	^{6.5005} g	2.01	.05
	31.3	var	1.56	.05

Moon bright and settings difficult,
especially on the variable itself

Pleiades.

2" cap.

9	0.3	f	1.37	.02
	2.3	g	1.50	.08
	4.3	h	1.76	.03
	6.3	f	1.40	.02
	8.5	g	1.56	.06
	10.7	h	1.77	.04

Moon rather bright and observations
although somewhat difficult are
considered good.

9	41.3	+14.738	1.15	.07
	43.7	Vesta	1.58	.06
	46.7	+14.745	2.11	.03
	48.7	Vesta	1.55	.04
	51.3	+14.726	2.02	.02
9	53.7	Vesta	1.51	.04

2" cap.

Observations somewhat difficult but
considered good as great care
was exercised on same.

Tuesday Nov. 3, 1903
JD - 6422.

Vajulae

2" cap.

7	45.0	f	1.29	.04
	48.0	var	1.31	.13
	50.5	g	1.62	.07
	52.7	var	0.92	.10

Obs. very difficult and only 1/2 wt.
moon very bright and region somewhat low.

Vesta

2" cap.

9	33.5	+14.738	0.41	.06
	35.6	Vesta	0.66	.04
	37.2	+14.726	1.10	.08
	39.0	Vesta	0.59	.05
	42.7	+14.729	1.52	.07
	44.2	Vesta	0.72	.06
	46.0	+15.670	1.46	.02
	48.2	+14.751	1.56	.04

Neptune

2" cap.

10	5.0	+22.1352	0.84	.04
	7.4	Neptune	1.41	.02
	10.2	+21.1268	1.24	.04
	12.0	Neptune	1.40	.03

Monday November 9, 1903.

JD 6428.

T Herculis

full aperture.

6	12.9	m	1.49	.02
	16.1	var	0.95	.04
	19.1	n	1.73	.04
	22.1	var	1.01	.04

seeing quite blurry and air windy
making observations a little difficult.

Vesta

2" cap.

S	36.1	+14.738	0.28	.02
	38.1	Vesta	0.50	.02
	40.1	+14.726	1.01	.06
	42.3	Vesta	0.53	.03

12

Thursday Nov. 12, 1903
 20.6431

R Camelopard. Full aperture.

8.	16.4	C	1.32	.04
	19.0	var	1.02	.04
	21.5	d	1.75	.03
	23.2	var	0.94	.04

seeing very poor.

S Ursae Min.

Full aperture

8	28.1	b	1.08	.04
	30.0	var	1.17	.02
	32.2	C	1.33	.02
	33.8	var	1.12	.02

seeing still poor

Vesta

2" cap.

9	40.0	14.738	0.86	.06
	41.6	Vesta	0.96	.04
	43.0	Vesta	0.98	.01
	45.0	13.688	1.72	.02

artificial star bothered greatly at first, but finally readjusted. Seeing very poor and variable.

0 T Mrs. Maj.

Saturday Nov. 14, 03 20.6433
 full aperture

8	15.9	var	1.56	.06
	18.6	f	1.23	.02
	21.8	var	1.54	.10
	24.4	e	1.05	.05

S Mrs. Maj.

8	26.4	f	1.27	.01
	27.6	var	1.08	.04
	29.4	g	1.40	.04
	31.2	var	1.11	.04

full aperture

Sat. Nov. 14/1903 JD. 6433.

Vesta

2" cap.

10 9.4 +14.738 00.3 .02
 12.4 Vesta 0.35 .04
 14.6 +13.688 1.04 .04
 16.2 Vesta 0.40 .04
 18.4 +14.726 0.67 .05

Vesta

Friday Nov. 20, 1903 JD. 6439

~~7 50.1 13.688 2.04 .02~~
~~52.1 Vesta 1.56 .02~~
~~55.7 Vesta 1.56 .02~~
~~57.3 13.688 2.06 .02~~

Reject wrong object
 observed for Vesta.

1" cap.

Neptune

2" cap.

9 5.1 +22.1352 1.09 .03
 6.5 Neptune 1.58 .02
 7.9 +21.1268 1.30 .02
 8.9 Neptune 1.51 .02

S Cygni.

Sat. Nov. 21, 1903 JD. 6440.
 full aperture

8 15.1 k 1.16 .05
 17.1 var 1.25 .02
 18.5 l 1.36 .02
 19.7 var 1.22 .02

S Cygni.

2" cap.

9 21.1 c 1.40 .01
 23.1 var 1.63 .03
 25.9 f 1.78 .02
 27.7 var 1.54 .02

14

Tuesday Nov. 24, 1903

Vesta

1" cap.

JD. 64443.

32.2	14607	0.94	.02
42.1	13.659	1.66	.01
43.7	Vesta	1.44	.02
45.1	Vesta	1.38	.02
46.7	14607	0.93	.02
49.1	13.659	1.58	.02

Windy & seeing poor.

Wednesday Nov. 25, 1903

Vesta 1" cap.

JD. 64444.

31.3	14607	1.14	.04
33.3	Vesta	1.57	.03
43.3	14738	1.36	.01
44.5	Vesta	1.54	.04
46.1	13.659	1.70	.03

Vesta

1" cap.

Saturday Nov. 28, 1903

JD. 64447.

15.5	14607	0.95	.04
17.6	Vesta	1.31	.05
20.1	13.659	1.40	.05
22.6	Vesta	1.29	.01
25.0	14738	1.04	.06

Monday, November 30, 1903.

J.D. 6449

Vesta

2" cap.

8	5.9	14.687	0.57	.02
	9.5	Vesta	0.88	.06
	10.5	13.659	0.85	.06
	11.9	Vesta	0.88	.05
	13.5	14.738	0.44	.02
	17.0	14.729	2.16	.02
	20.5	15.670	1.56	.02

Moon rather bright, but seeing good and observations considered good.

Neptune

2" cap.

9	37.5	+22.1352	0.60	.04
	39.5	Neptune	1.09	.04
	41.5	21.1268	1.03	.05
	43.5	Neptune	1.16	.06
	45.1	21.1270	1.74	.05

Moon rather bright but stars well seen and observations considered good.

Vesta

Thursday Dec. 10, 1903. J.D. 6459.

1" cap.

8	45.4	+13.621	1.42	.06
	48.6	Vesta	1.44	.03
	51.6	+13.627	2.10	.06
	54.0	Vesta	1.42	.06
	55.6	+14.738	0.78	.02

Ampella

Friday, Dec. 11, 1903 J.D. 6460.

Full aperture and high power used.

A	52.5	+26.768	1.69	.08
	56.5	Ampella	2.25	.06
9	2.9	+26.765	1.72	.06
	5.0	Ampella	2.16	.04
	7.5	+26.767	1.15	.03

Monday, Dec. 14, 1903 JD. 6463.

	Ampella.			
8	9.9	+23.732	1.02	.05
	13.1	+23.737	1.94	.02
	16.1	Ampella	2.50	.04
	19.3	Ampella	2.46	.03

Full aperture
High Power.

Seeing poor, but observations
made carefully & considered
good.

	Ampella			
8	16.9	Ampella	2.07	.05
	19.4	Ampella	2.08	.08
	23.9	+23.732	1.07	.03
	25.9	+23.737	1.68	.05
	29.3	3	2.85	.03

Tues. Dec. 15, '03 JD. 6464

Full aperture & high power.

Seeing fairly good & obs. considered
very good.

	Vesta			
P	46.5	13.621	1.54	.07
	48.0	Vesta	1.57	.04
	49.9	13.627	1.88	.02
	52.9	Vesta	1.56	.00
	55.0	14.738	1.10	.07

1" cap. & low power.
Seeing good & obs. considered
very good.

	Ampella			
cloud	32.6	Ampella	2.77	.06
	35.4	Ampella	2.78	.05
	37.0	+23.732	1.83	.06
	38.6	+23.737	2.28	.03
	43.6	3	3.04	.08

Wed. Dec. 16, 1903 JD. 6465

Full aperture &
high power

Troubled some by clouds but waited
for them to clear. Seeing somewhat
poor.

	Ampella.			
P	37.0	+23.732	1.01	
	44.0	+23.737	1.83	
	48.0	3	2.42	
	51.2	Ampella	2.22	
	53.2	Ampella	2.16	

Friday Dec. 18, 1903 JD. 6467

Quite cold, air windy and
seeing poor.

Full aperture
high power.

Saturday Dec. 19, 1903.
JD. 6468.

Vesta

8	2.2	13621	0.68	.06
	10.2	Vesta	0.86	.06
	13.0	13627	1.11	.04
	16.2	Vesta	0.86	.04
	18.4	13616	1.29	.04

1" cap. low power.
Seeing fairly good and observations considered good.

Iris

7	40.1	17.1561	0.92	.05
	42.3	Iris	1.49	.05
	44.5	16.1466	1.07	.05
	47.9	Iris	1.47	.06
	51.1	18.1610	0.64	.04

Tuesday Dec. 22, 1903. JD. 6471
2" cap. low power.

Vesta

8	33.6	13621	1.22	.06
	36.1	Vesta	1.26	.05
	38.1	13627	1.60	.04
	39.7	Vesta	1.27	.02
	41.1	13616	1.60	.02

1" cap. low power.

Iris

8	43.8	17.1561	0.83	.02
	45.0	Iris	1.28	.01
	46.6	16.1466	1.03	.03
	48.0	Iris	1.34	.04

Sat. Dec. 26, 1903. JD. 6475.
1" cap. low power

Iris

8	57.9	17.1561	2.27	.08
8	59.9	Iris	2.72	.02
9	2.4	18.1569	3.34	.07
9	4.9	Iris	2.73	.05

Monday Dec. 27, '03 JD. 6477
Full aperture. Low Power
Light brighter & redder.

Wed. Dec. 20, 1903. P. 6479.

		Iris	
7	134.3	17.1561	3.83 .07
	36.8	Iris	4.13 .02
	32.3	16.1466	3.77 .05
	39.9	Iris	4.12 .06
7	41.9	18.1569	4.70 .04

full aperture ^{low power}
moon bright.

		Iris	
7	45.8	Iris	3.40 .06
	47.2	17.1492	3.21 .06
	49.8	Iris	3.32 .03
	51.8	16.1363	1.57 .07
	53.6	17.1469	3.44 .05
7	54.8	Iris	3.31 .02

Tuesday Jan. 5, 1904 P. 6485
full aperture low power

				Friday January 15, 1904 J. D. Holl 95.
7	39.5	17.1492	1.61 .02	Iris. full aperture.
	41.9	Iris	2.72 .04	artificial star somewhat red & seeing
	44.5	17.1469	1.98 .00	not over good.
	47.3	Iris	2.55 .04	
	49.5	17.1492	1.66 .04	
7	52.5	17.1441	2.55 .05	

Vesta Friday Feb. 5, 1904. P. 6516

10	13.8	16.514	1.06 .04
	16.6	Vesta	1.54 .04
	18.4	15.531	1.42 .08
	20.6	Vesta	1.55 .05
10	22.0	16.514	1.14 .04

Wed. March 30, 1904.

J.D. 6570.

Vesta full aperture.

7	54.2	+20.808	3.48	.05
7	55.8	Vesta	3.25	.06
7	58.0	+21.692	3.14	.04
7	59.5	Vesta	3.22	.06
8	02.0	+21.692	3.08	.07
8	01.7	+20.808	3.35	.06

Seeing very good all the way near the full. Obs. considered quite good.

Saturday April 2, 1904.

Pleiades.

J.D. 6573

H.E. Washburn, Rec.

	^f * shade			
♂ 20.3	* X ^a 28.2	♂ 28.2	0.42	.07
22.1	maia	♀ 28.2	1.71	.09
	electra	♂ 28.2	1.78	.07
24.1	merope	* 28.2	2.06	.15
26.1	♂ 28.2	♂ 28.2	2.42	.12
27.9	♂ 28.2	♂ 28.2	3.62	.02
29.6	♂ 28.2	♂ 28.2	4.73	.09
33.9	♂ 28.2	♂ 28.2	2.51	.10
37.6	♂ —	♂ —	3.23	.03
38.9	♂ —	♂ —	3.24	.05
40.1	♂ —	♂ —	3.53	.08
41.3	♂ —	♂ —	4.36	.02
♀ 43.3	♂ —	♂ —		

Very windy, telescope moving.
See Kleiner's atlas for notation used.
The above measures tonight only considered experimental.

Shade 6 used for the first time tonight.

Thurs. Apr. 14, 1904

J.D. 6545.

Pleiades. 5"

L.C. Ob. & Rec.

7	40.3	a	28.2	1.26	.08
	43.6	a'	28.2	3.04	.08
	45.3	b	28.2	3.32	.06
	46.9	b'	28.2	3.95	.08
	49.1	c	28.2	4.06	.08
	51.9	d	20.0	3.64	.08
	54.3	c	20.0	3.25	.08
	55.9	e	20.0	4.21	.03
	57.7	f	20.0	4.53	.10
7	59.9	f	—	3.60	.06
A	2.9	g	—	3.01	.10
	45.3	h	—	4.16	.02
	7.5	i	—	4.00	.03
P	9.6	j	—	4.96	.03

Above only experimental.

Saturday April 16, 1904 J.D. 6547

Pleiades. Wedge a set at 46.6"

L.C. Ob. & Rec.

7	49.3	a	3.12	.02
	52.5	a'	3.03	.03
	54.7	b	2.95	.00
7	56.9	b'	2.70	.02
A	0.3	c	2.50	.06
	3.7	d	2.44	.02
	6.1	e	2.02	.06
	9.5	e	1.94	.03
	10.9	d	2.28	.04
	12.9	c	2.52	.03

(Sat.) April 6, 1904.
Pleiades (cont.)

8	14.7	b'	2.71	.03
	16.9	b	2.95	.03
	19.7	a'	3.06	.01
	21.1	a	3.12	.03
	22.7	e	2.64	.02
	24.7	f	2.30	.04
	26.1	g	2.30	.01
	28.1	h	1.54	.05
	29.7	h	1.51	.03
	32.3	g	2.24	.06
	33.7	f	2.25	.04
8	35.7	e	2.46	.04

{ Reset a at 5.40

Observations rather difficult towards the end of series as stars were rather low.

April 21, 1904

JD. 6592.

Pleiades

Wedge a set at 4.74

7	34.1	a	3.24	.02
	36.1	a'	3.02	.03
	37.0	b	2.90	.04
	39.2	b'	2.72	.04
	41.0	c	2.60	.04
	42.6	d	2.45	.02
	45.8	e	1.66	.02
	48.6	e	1.62	.04
	50.6	d	2.40	.01
	52.2	c	2.58	.02
7	53.4	b	2.68	.03

Apr. 21, 1904 (cont.)

Pleiades (cont.)

7	54.6	b	295	.03
	56.0	a'	304	.02
	57.2	a	314	.01

Measurements difficult due to
high wind and rather low altitude.

(Friday) April 22, 1904. J.D. 6593.

Mercury, Pleiades & Aldebaran (α Tauri)

Wedge set at 44.4

7	34.8	Mercury	3.70	.02
	37.4	a	3.49	.04 Pleiades.
	39.8	a'	3.39	.02
	41.0	b	3.20	.06
	41.8	b'	2.93	.02
	43.0	c	2.80	.03
	44.6	d	2.68	.06
	46.8	e	2.48	.02
	48.8	e	2.49	.02
	50.4	d	2.72	.02
	51.8	c	2.79	.04
	52.8	b'	2.89	.02
	54.0	b	3.14	.04
	55.2	a'	3.28	.04
	57.2	a	3.32	.03
7	58.8	α Tauri	4.00	.03

Altitude of Pleiades too low for
further measures.

(Tuesday) Sept. 6, 1904

JD. 6730

Measure of comp stars for Cus.

7	49.5	f	2.66	.04	Wedge $\alpha = 3.00$
	49.0	e	2.71	.07	
	52.0	h	1.73	.04	
	53.5	m	2.46	.06	
	56.0	f	2.26	.04	
	58.0	x	3.04	.04	
A	7.5	a	2.29	.04	
	12.0	p	1.35	.02	

Thursday Oct. 6, 1904. JD. 6760

New Argol $-15^{\circ}49'05''$

7	9.0	x	2.98	.02	Wedge $\alpha = 1.18$
	11.0	a	2.22	.08	
	13.5	b	2.02	.05	
	16.0	y	2.35	.05	
	25.0	var	2.14	.06	
7	27.4	x	3.00	.02	

Cassiopeiae

A	14.4	var	1.44	.02	Wedge $\alpha = 1.40$
	16.8	e	2.91	.04	
	20.0	g	2.76	.04	
	23.5	var	1.48	.02	

Standards in Pleiades

9	21.5	a	3.93	.04	Wedge $\alpha = 1.00$
	23.8	a'	3.81	.02	
	25.5	b	3.64	.05	
	27.0	b'	3.44	.02	
	29.0	c	3.30	.04	

24

Oct. 6, 1904.

Stars in Pleiades (cont)

9	30.4	d	3.16	.00
	22.4	e	2.93	.02
	34.0	f	2.83	.04
	26.2	g	2.85	.02
	38.1	h	2.74	.03
	40.6	j	2.27	.02
	42.6	k	1.32	.04
	56.0	a	2.89	.02
9	58.1	a'	3.80	.00
10	0.0	b	3.62	.00
	1.3	b'	3.40	.02
	2.3	c	3.20	.04
	3.4	d	3.06	.06
	5.4	e	2.80	.00
	6.2	f	2.63	.04
	10.0	g	2.64	.04
	12.0	h	2.44	.04
10	13.6	j	2.00	.02

Oct. 7, 1904 Friday P.D. 6761.

Algol Var - 15.4905

7	22.6	x	2.99	.03
	26.0	a	2.10	.02
	32.0	b	2.04	.03
	34.0	y	2.48	.06
	35.4	var	2.16	.06
	38.0	c	0.95	.02
	40.0	var	2.18	.04
7	42.0	x	3.06	.02

Urds a = 1.50

stars a, b & c are photog. Nov.
stars x & y are

Oct. 7, 1904

Standards in Pleiades

see C's chart on Klein's
atlas for notation.Wedge $\alpha = 1.50$

9	51.8	a	3.94	.03
	53.3	a'	3.81	.04
	55.1	b	3.68	.02
	56.7	b'	3.39	.03
	59.0	c	3.27	.04
10	0.4	d	3.17	.03
	1.8	e	2.99	.02
	3.3	f	2.86	.01
	4.6	g	2.78	.02
	6.2	h	2.68	.02
	8.4	i	2.52	.02
	10.0	j	2.25	.01
	12.4	j	1.22	.04
	21.0	a	3.88	.02
	24.0	b	3.62	.05
	25.7	c	3.26	.01
	27.4	d	3.16	.04
	28.7	e	2.93	.05
	30.0	f	2.72	.03
	31.4	g	2.76	.04
	32.7	h	2.64	.02
	34.4	i	2.42	.04
	36.6	j	2.16	.04
	38.2	j	1.38	.02
	39.8	a'	3.76	.04
10	41.2	b'	3.30	.02

Thursday Dec. 29, 1904.
J.D. 6240

o Ceti

Var 7.82 45
ε 9.54 12
var 7.44 19
ε

o Ceti

Var 8.34 26
ε 9.67 34
var 7.76 34
ε 9.09 37
var 7.82 21

o Ceti

Var. 9.56 24
ε 10.89 12
var 9.76 10
ε 11.16 11
var 8.72 50

Ranetic

Var. 9.34 20
f 9.78 17
ra

RTuiguli

Var? 12.14 10
h 11.12 22
Var? 12.04 12
Hog 24. 11.60 06
Var? 12.26 26

changed exposure.

clouds.

ragged.
scat. clouds

Not required.

col. run out.

start of prob. obs. for Var tonight

Dec. 29, 1904 (cont.)

27

R Persei.

Var. 10.74 20

e 10.65 18

Var 10.33 18

h 11.23 08

Var 10.76 09

V Cephei.

Var 8.14 27

d 7.15 31

var 7.78 06

d 8.32 50

var 6.61 21

RTauri

var 10.19 19

e 8.52 26

var 9.36 16

d 11.44 11

var 9.38 08

RTauri

var 11.80 06

f 11.04 08

var 11.78 09

h 12.07 13

var 11.38 08

TKamelop.

var 8.80 22

d 10.39 06

var 9.75 19

h 11.86 07

var 9.44 26

king
H. 2.
disc.

H. 2.

H 2

Thursday Dec. 29, 1904.
J.D. 6840

o Ceti

Var 7.82 45

ε 9.54 12

var 7.44 19

ε 7.44

o Ceti

Var 8.34 26

ε 9.67 34

var 7.76 34

ε 9.09 37

var 7.82 21

o Ceti

Var 9.56 24

ε 10.89 12

var 9.76 10

ε 11.16 11

Var 8.72 30

Ranetis

Var. 9.34 20

f 9.78 17

ra

R Trianguli

Var? 12.14 10

h 11.12 22

Var? 12.04 12

Hop 24. 11.60 06

Var? 12.26 26

changed exposure.

clouds.

ragged.
scat. clouds

Not required.

col. run out.

start of prob. obs. for Var tonight

Dec. 29, 1904 (cont.)

27 *

R Persei.

Var. 10.74 20

e 10.65 18

Var 10.33 18

h 11.23 08

Var 10.76 09

V Cephei.

Var 2.14 27

d 7.15 31

var 7.78 06

d 8.32 50

var 6.61 21

RTauri

var 10.19 19

e 8.52 26

var 9.36 16

d 11.44 11

var 9.38 08

RTauri

var 11.50 06

f 11.04 08

var 11.78 09

h 12.07 13

var 11.38 08

K Camelopard.

var 8.80 22

d 10.39 06

var 9.75 19

k 11.86 07

var 9.44 26

H. 2.
 Disc.
 H. 2.

H 2

26

Thursday Dec. 29, 1904.
J.D. - 6240

o Ceti

Var 7.82 45

ε 9.54 12

var 7.64 19

ε 8.54

o Ceti

var 8.34 26

ε 9.67 34

var 8.76 34

ε 9.09 37

var 7.82 21

o Ceti

Var. 9.56 24

ε 10.89 12

var 9.76 10

ε 11.16 11

var 8.72 50

R Arietis

Var. 9.34 20

f 9.78 17

ra

RTrianguli

Var? 12.14 10

h 11.12 22

Var? 12.04 12

Mag 24. 11.60 06

Var? 12.26 26

changed exposure.

clouds.

fogged.
scat. clouds

Not required.

col. run out.

start of prob. obs. for Var tonight

Dec. 29, 1904 (cont.)

27

R Persei.

Var. 10.74 20

e 10.65 18

Var 10.33 18

h 11.23 08

Var 10.76 09

V. Persei.

Var 8.14 27

d 7.15 31

var 7.78 06

d 8.32 50

var 6.61 21

RTauri

var 10.19 19

e 8.52 26

var 9.36 16

d 11.44 11

var 9.38 08

RTauri

var 11.80 06

f 11.04 08

var 11.78 09

h 12.07 13

var 11.38 08

T Camelopard.

var 8.80 22

d 10.39 06

var 9.75 19

h 11.86 07

var 9.44 26

king
H. 2.
Disc.

H. 2.

H 2

Thursday Dec. 29, 1904.
J.D. - 6840

o Ceti

Var 7.82 45

ϵ 9.54 12

var 7.64 19

ϵ 7.54

o Ceti

var 8.34 26

ϵ 9.67 34

var 7.76 34

ϵ 9.09 37

var 7.82 21

o Ceti

Var 9.58 24

ϵ 10.89 12

var 9.76 10

ϵ 11.16 11

var 8.72 50

R Arietis

Var. 9.34 20

ϵ 9.78 17

R Trianguli

Var? 12.14 10

ϵ 11.12 22

Var? 12.04 12

Hop 24. 11.60 06

Var? 12.26 26

changed exposure.

clouds.

ragged.
scat. clouds

Not required.

col. run out.

start of prob. obs. for Var tonight

Dec. 29, 1904 (cont.)

27

R Persei.

Var. 10.74 20

e 10.65 18

Var 10.33 18

h 11.23 08

Var 10.76 09

V Cephei.

Var 2.14 27

d 7.15 31

var 7.78 06

d 8.32 50

var 6.61 21

RTauri

var 10.19 19

e 8.52 29

var 9.36 16

d 11.44 11

var 9.38 08

RTauri

var 11.20 06

f 11.04 08

var 11.78 09

h 12.07 13

var 11.38 08

T Camelopard.

var 8.20 22

d 10.39 06

var 9.75 19

k 11.86 07

var 9.44 26

H. 2.
 Disc.
 H. 2.

H 2

Dec 29, 1904 (cont.)

V Tauri & o. Var invisible

R Orionis.

var 10.87 .19
 g 11.41 .28
 var 10.56 .19
 c 10.83 .10
 var. 11.08 .16

U Persei.

var 9.52 .02
 c 9.89 .11
 var 9.70 .16
 f 10.41 .10
 var. 9.89 .13

R Arietis

var 8.65 .14
 f 9.53 .20
 var 8.52 .20
 n 11.50 .17
 var 8.56 .24

e Ceti

var 8.61 .14
 e 10.86 .04
 var 8.92 .06
 f 8.36 .22
 var 8.65 .07

Dec. 30, 1904 (Friday) D. 6P45

H. 4.

H. 4. closed.

Dec. 30, 1904 (cont.)

29

R. Triang.

var 12.20 .09

h 11.27 .02

var 12.58 .08

H 2x 11.45 .08

Var 12.35 .06

v 12.36 .10

X Ceti

Var 11.54 .14

c 11.53 .12

var 12.06 .12

d 11.60 .12

var 11.94 .17

R. Persei.

var 11.74 .14

e 11.64 .13

var 11.32 .08

h 11.74 .14

var 11.35 .03

U. Androm.

var 11.24 .06

d 11.15 .06

var 11.91 .12

e 11.29 .06

var 11.50 .08

Haze.

H. 4.

H. 27.

H. 4.

Dec. 30, 1904 Cont.

Nova Per. No. 2.

Nova 12.33 .14

o 11.17 .15

nova 12.28 .19

e 12.05 .16

Nova. 12.19 .18

R Tauri.

var 11.16 .16

e 10.01 .31

var 10.34 .16

o 11.35 .20

var 10.12 .25

W Tauri

var 12.00 .12

f 11.70 .09

var 12.20 .13

h 12.24 .21

var 11.74 .08

H. 4

Alb. diff on account
of haze.
H. 4.

Field very hazy
troubled by clouds.

9.44 - 5
H. 4

Obscured by clouds.

Oct 17, 1904.
 Stars in Pleiades.

a	3.97	.01
a'	3.75	.02
b	3.70	.03
b'	3.44	.03
c	3.27	.01
d	3.14	.02
e	2.93	.02
f	2.85	.02
g	2.83	.02
h	2.68	.02
i	2.48	.01
j	2.30	.01
a	3.98	.01
a'	3.78	.03
b	3.59	.02
b'	3.39	.01
c	3.30	.02
d	3.20	.02
e	3.06	.01
f	2.88	.04
g	2.83	.01
h	2.70	.01
i	2.50	.00
j	2.39	.02

wedge α at 1.10

Moon somewhat bright,
 but sky clear & seeing
 very good. making observations
 less difficult.

Oct. 24, 1904

JD - 6778

Vesper.

8 56.0 var 3.12 03

 $a = 9.0$

9 4.0 d 2.96 01

6.0 var 3.14 02

8.4 c 3.18 02

10.8 var 3.14 01

12.4 d 2.99 02

Moon bright, and observations
a little stiff, but can make
obs. considered good.

Nov. 12, 1904.

JD - 6787

Vesper.

7 30.0 c 2.96 04

 $a = 0.0$

var 3.03 03

d 2.77 02

var 3.01 02

d 2.75 02

var 3.03 02

c 2.96 02

Seeing quite good, but
wind rather breezy. Obs.
considered quite good.

(Mon) Jan. 16, 1905.

JD. 6862.

(15) Eunomia.

9 34.5 Aster. 0.72 .06

35.5 +13.2019 0.58 .02

37.2 Aster. 0.62 .04

38.5 +13.2027 0.44 .02

Stopped by clouds.

Sat. Jan. 28, 1905. JD. 6874

L.C. Ob. & Rec.

(15) Eunomia.

a set at 0.00

10 37 Aster. 2.04 .02

38 +13.2019 0.96 .06

39 13.2027 0.58 .03

40 Aster. 1.80 .04

42 +14.1971 2.46 .02 8.09

44 +14.1962 2.50 .03 8.14

46 Aster. 1.76 .02

Vesta.

a set at 0.00

11 02 Vesta 2.54 .04

03 +3.2714 2.70 .03

05 Vesta 2.50 .02

06 +5.2690 2.86 .02 7.91

08 Vesta 2.56 .02

Meas. of Pleiades with large wedge b

Date	a	a'	b	b'	c	d	e	f	g	h
1904										
Apr. 16	3.18	3.03	2.95	2.70	2.50	2.44	2.02	Wedge a at 4.68		
"	3.12	3.06	2.95	2.71	2.52	2.28	1.94	"	"	"
"					Wedge a at 5.80		2.64	2.30	2.30	1.54
"					"	" 3.80	2.46	2.25	2.24	1.51
Apr. 21	3.24	3.02	2.94	2.72	2.60	2.45	1.66	Wedge e at 4.74		
"	3.14	3.04	2.95	2.68	2.58	2.40	1.62	"	"	" 4.74
								Mercury & Tauri		
Apr. 22	3.49	3.39	3.20	2.93	2.80	2.68	2.48	3.70	4.00	
	3.38	3.28	3.14	2.89	2.79	2.72	2.49			
								Wedge a set at 4.48		

Meas. of Pleiades.

1904.

L.C. Op.

Apr. 16.

Apr. 21.

Apr. 22.

Mean

a	3.18 .02	3.24 .02	3.49 .04	3.26
a'	3.03 .03	3.02 .03	3.39 .02	3.14
b	2.95 .00	2.94 .04	3.20 .06	3.02
b'	2.70 .02	2.72 .04	2.93 .02	2.77
c	2.50 .06	2.60 .04	2.80 .03	2.63
d	2.44 .02	2.45 .02	2.68 .06	2.50
e	2.02 .06	1.66 .02	2.48 .02	2.04
e	1.94 .03	1.62 .04	2.49 .02	
d	2.28 .04	2.40 .01	2.72 .02	
c	2.52 .03	2.58 .02	2.79 .04	
b'	2.71 .03	2.68 .03	2.89 .02	
b	2.95 .03	2.95 .03	3.14 .04	
a'	3.06 .01	3.04 .02	3.28 .04	
a	<u>3.12 .03</u>	<u>3.14 .01</u>	<u>3.38 .03</u>	
e	2.64 .02			
f	2.30 .04			
g	2.30 .01			
h	1.54 .05			
h	1.51 .03			
g	2.24 .06			
f	2.25 .04			
e	2.46 .04			

Mercury 3.72 .02 } meas. in
 & Tauri 4.00 .03 } conjunction
 with the pleiades

1903phae.proj..757C