

KG
11365
683

L. J. Peirce's
Photometric Observations

Vol 8

1874 Aug 22 - 1875 Jan 10

Original Record.

KG 11365, 683

683

1874phae.proj.68

Observations at Stations Avosak
and
Northampton Mass.
and
Cambridge

KG 11365.653



Aug 22

O² Lygni

Cap 1 Pinhole 5 Cap 1

$$\begin{array}{r}
 + 30.8 \quad 1.48 \\
 + 152.0 \quad 28.0 \\
 \hline
 1.67 \\
 1.57 \\
 0.36 \\
 \hline
 1.21
 \end{array}$$

O² Lygni O

Cap 1 Pinhole 5 Cap 1

$$\begin{array}{r}
 + 18.6 \quad 2.53 \\
 + 162.2 \quad 17.8 \\
 \hline
 2.62 \\
 2.57 \\
 0.36 \\
 \hline
 2.21
 \end{array}$$

O² Lygni South

Cap 1 Pinhole 5

$$\begin{array}{r}
 + 32.3 \quad 1.39 \\
 + 148.1 \quad 31.9 \\
 \hline
 1.41 \\
 1.40 \\
 0.36 \\
 \hline
 1.04
 \end{array}$$

γ Persei

Cap 2 Pinhole 5 Cap 2

$$\begin{array}{r}
 + 24.1 \quad 1.98 \\
 + 154.7 \quad 25.3 \\
 \hline
 1.88 \\
 1.93 \\
 1.52 \\
 0.41 \\
 \hline
 1.53
 \end{array}$$

τ Persei

Cap 2 Pinhole 5 Cap 2

$$\begin{array}{r}
 + 13.3 \quad 3.25 \\
 + 163.9 \quad 16.1 \\
 \hline
 2.84 \\
 3.04 \\
 1.52 \\
 \hline
 1.52
 \end{array}$$

ι Persei

Cap 2 Pinhole 5

$$\begin{array}{r}
 + 12.8 \quad 3.34 \\
 + 167.0 \quad 3.0 \\
 \hline
 3.30 \\
 3.32 \\
 1.52 \\
 \hline
 1.80
 \end{array}$$

Groups 51 and 1

178 B Byggn	182 B Byggn	165 B Byggn
Capo	Pinholes	Capo
Pinholes	Capo	Pinholes
$ \begin{array}{r} +13.1 \\ 11.9 \\ +168.1 \\ \hline 3.39 \end{array} $	$ \begin{array}{r} +13.9 \\ 18.0 \\ +162.0 \\ \hline 2.60 \\ 5.76 \\ \hline 2.88 \end{array} $	$ \begin{array}{r} 11.57 + 13.3 \\ 14.8 \\ +165.2 \\ \hline 3.02 \\ \hline 3.13 \end{array} $

↳ bad ref

$Q_f \quad 1.04 - 1.44$
 $Q_2 \quad 1.21 - 1.27$
 $Q_{fp} \quad 2.21 - 0.27$
 $182B \quad 2.88 + 0.40$
 $165B \quad 3.13 + 0.65$
 $+$

θ Persei
 Cap 2 Pinhole 5 Cap 1
 $+13.6 \quad 3.20$
 $+164.9 \quad 2.98$
 $\underline{\quad}$
 3.09
 $\underline{1.52}$
 1.57

F431
 $+16.2$
 $+164.1$

Pinhole 1 Cap 1
 2.83
 $\underline{2.87}$
 2.85
 $\underline{0.36}$
 2.49

1658 3.13 +0.65
 $+1788 \quad 3.39 +0.91$
 $\underline{13.86}$
 2.48
 $\underline{\quad}$
 $0.41 -1.15$
 $1.52 -0.04$
 $1.80 +0.24$
 $1.57 +0.01$
 $F431 \quad 2.49 +0.93$
 $\underline{7.79}$
 1.56

$$L1-1 = +.92$$

1874

Aug 22

C 3

~~4711?~~

3 And.

C ?

ψ And.

Cap 1	Pinhole 5	Cap 1	Pinhole 5	Cap 0	Pinhole 5		
+ 17.7	2.64	77	+ 12.5	3.39	06	+ 16.8	2.75
+ 160.7 ^{19.3}	2.145	48	+ 160.9 ^{14.1}	3.13	58	+ 161.9 ^{18.1}	2.59
<u>1.09</u>	3.63		<u>3.26</u>	2.97		<u>2.67</u>	
2.27	3.26		36			2.90	
<u>36</u>	2.67		<u>2.90</u>			<u>1.57</u>	
1.91	.59					2.78	

3 And is the pr. of two.

ι Persei

θ Persei

ι Persei

Cap 0	Pinhole 5	Cap 1	Pinhole 5	Cap 1	Pinhole 5
+ 32.7	1.36		+ 22.1	2.16	
35.2			26.3		
+ 144.8	1.22		+ 153.7	1.80	
<u>1.29</u>	2.01		<u>1.98</u>		
1.62	1.21		1.29		
<u>1.45</u>	0.80		0.69		
			<u>0.36</u>		
			1.65		

Groups 70 and 1

14 Persei		12 Persei		10 Persei	
Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+14.9	3.01	+19.7	2.41	+34.0	1.29
+16 ^{16.8} 3.2	2.75	+15 ^{22.4} 7.6	2.13	+14 ^{36.9} 3.1	1.13
	<u>2.88</u>		<u>2.27</u>		<u>1.21</u>
					<u>1.65</u>
					<u>1.43</u>

12 Persei has a comp. N. of it

14 Persei		12 Persei		10 Persei	
Capo 1	Pinhole 5	Capo 1	Pinhole 5	Capo 2	Pinhole 5
+25.7	1.85	+13.8	3.17	+12.9	3.32
+27.1		+16.5		+14.9	
+152.9	1.74	+163.5	2.79	+165.1	3.01
	<u>1.79</u>		<u>2.98</u>		<u>3.16</u>
	36		36		1.52
	<u>1.43</u>		<u>2.62</u>		<u>1.64</u>
	1.64				
	<u>1.53</u>				

Aug 22

γ Persei

Cap 2 Pinhole 5

$$\begin{array}{r}
 +20.7 \quad 2.30 \\
 +158.0 \quad 2.17 \\
 \hline
 2.23 \\
 1.52 \\
 \hline
 0.71
 \end{array}$$

$$\begin{array}{rcl}
 b & 1.91 & - \quad 72-69 \\
 12 & 2.27 & - \quad 36-33 \quad 102 \\
 c & 2.78 & + \quad 15+18 \\
 14 & 2.88 & + \quad 25+28 \quad 104 \\
 47H & & [10.58] \\
 & 9.84 & \\
 & 58 & \\
 & \hline
 & 10.42 & \\
 & 2.60 &
 \end{array}$$

$$\begin{array}{rcl}
 \gamma & 0.71 & - .84 \\
 \tau & 1.53 & - 02 \\
 \epsilon & 1.45 & - 10 \\
 \nu & 1.43 & - 12 \\
 F431 & 2.62 & + 1.07 \\
 & \hline
 & 7.74 & \\
 & 1.55 &
 \end{array}$$

$$LXX-1 = +1.05$$

continued
Groups 70 and 1

Large ...

Are not τ ϵ & ν confused?
 Aug 22

θ Perse

ϵ Perse

τ Persei

Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+25.2	1.89	+23.7	2.02	+19.8	2.40
^{18.4} +161.6	^{1.64} 2.55 ^{3?}	^{20.4} +159.6	2.33	^{19.0} +161.0	2.48
^{2.39} -156.1	2.00	^{22.0} -158.0	2.17	^{17.4} -162.6	2.67
	<u>2.83</u>		<u>5.2</u>		<u>1.55</u>
	1.84		2.17		2.52
	<u>36</u>		<u>36</u>		<u>36</u>
	1.48		1.81		2.16

30 Persei

L Persei

w Persei

Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+12.7	3.35	+17.3	2.68	+20.6	2.31
^{4.0} +156.0	3.14	^{19.0} +161.0	2.48	^{24.1} +155.9	1.98
^{15.1} -164.9	2.98	^{19.6} -160.4	2.42	-155.9	1.98
	<u>47</u>		<u>2.53</u>		<u>27</u>
	3.16				2.09

Groups 1 and 2

F431		γ Persei		κ Persei	
Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+17.0	2.72	+19.4	2.44	+25.6	1.86
+16 ^{15.3} _{4.7}	2.95	+16 ^{20.0} _{0.0}	2.37	+15 ^{24.2} _{5.8}	1.97
-16 ^{19.7} _{0.3}	2.41	-15 ^{22.8} _{7.2}	2.10	-15 ^{28.2} _{1.8}	1.66
	<u>2.08</u>		<u>91</u>		<u>249</u>
	2.69		2.30		1.83
			<u>1.52</u>		<u>36</u>
			0.78		1.47

β Persei		γ		β	
Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+26.2	1.81	0.78	-1.00	0.14	-1.74
+12 ^{30.4} _{9.6}	1.51	2.16	+0.38	1.47	-0.42
-15 ^{28.3} _{1.7}	1.65	1.81	+0.03	2.09	+0.21
	<u>1.97</u>	1.48	-0.30	2.53	+0.65
	1.66	F431	2.69	3.16	+1.28
	<u>1.52</u>		<u>8.92</u>		<u>9.39</u>
	0.14		1.78		1.88

$$I - II = -.10$$

874

Aug 22

TT Aurig.

Capo Pinhole 5 Capo

$$\begin{array}{r}
 + 27.5 \quad 1.71 \\
 + 148.6 \quad 1.44 \\
 \hline
 115 \\
 1.57
 \end{array}$$

36 Aurig.

Capo Pinhole 5 Capo

$$\begin{array}{r}
 + 14.8 \quad 3.02 \\
 + 163.7 \quad 2.81 \\
 \hline
 2.91
 \end{array}$$

Piazzi V 280

Capo Pinhole 5

$$\begin{array}{r}
 + 12.4 \quad 3.41 \\
 + 165.7 \quad 3.10 \\
 \hline
 3.25
 \end{array}$$

8?

71 And

Capo Pinhole 5 Capo

$$\begin{array}{r}
 + 23.3 \quad 2.05 \\
 + 152.0 \quad 1.67 \\
 \hline
 1.86
 \end{array}$$

7 And

Capo Pinhole 5

$$\begin{array}{r}
 + 27.4 \quad 1.72 \\
 + 153.6 \quad 1.80 \\
 \hline
 1.76
 \end{array}$$

3 And

Capo Pinhole 5

$$\begin{array}{r}
 + 28.3 \quad 1.65 \\
 + 151.8 \quad 1.66 \\
 \hline
 1.65
 \end{array}$$

Piazzi V 280 is the fol.
one of two.

69
68
64
91
44
71

Groups 61 and 11

41 Aurig	0 Aurig.	11 Androm.
Capo	Pinhole 5	Capo
Pinhole 5	Pinhole 5	Pinhole 5
+13.2	+16.4	+15.8
3.27	2.80	2.88
+14.8	+16.7 ³	+19.5
+165.2	2.68	+160.5
3.02	2.74	2.43
<u>3.14</u>		<u>2.65</u>

7 And 1.76 - 59
 8 " 1.86 - 49 11 And. is the Northern
 4 " 2.44 + 09 of two.

4 Andromedae:	11 "	π
Capo	Pinhole 5	Pinhole 5
58° + 18.8	2.51	1.57 -1.15
+160.0	2.37	2.74 +0.02
2.44	2.74	2.91 +0.19
	8.71	36 2.91 +0.19
	71	Tr 280 3.25 +0.53
	9.42	41 <u>3.14</u> +0.42
	2.35	13.61

3 And 1.65 - 0.70 2.72

$$LXI - XI = -.37$$

Northampton

Wednesday Oct. 21st 1874

b. Andromedae.

c. Andromedae.

47H Andromedae.

Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+26.7	7 1.77	+17.8	18 2.62	+14.4	12 3.08
^{26.8} +153.2	6 1.76	^{22.2} +157.8	29 2.15	^{16.4} +163.6	15 2.81
^{26.8} -153.2	6 1.76	^{19.2} -160.8	2 2.46	^{14.6} -165.4	9 3.05
-30.1	17 1.53	-18.7	8 2.52	-15.5	4 2.92
	<u>36</u> 2		<u>57</u> 17.5		<u>40</u> 3.86
	1.70		2.44		2.96

b 1.70 - 57
 12 1.83 - 44
 c 2.44 + 17
 14 2.42 + 15
 47H 2.96 + 72
1.35
 2.27

w Persei.

Pinhole 5.

K Persei

Pinhole 5.

30 Persei

Pinhole 5.

Capo	Pinhole 5.	Capo	Pinhole 5.	Capo	Pinhole 5.
+26.4	8 1.80	+39.8	22 1.02	+17.2	10 2.70
^{27.6} +152.4	2 1.70	^{48.9} +131.1	15 0.65	^{18.6} +161.4	7 2.53
^{27.6} -152.4	2 1.70	^{45.0} -135.0	3 0.17	^{19.2} -160.8	14 2.46
-27.8	1 1.69	-75.1	4 0.76	-17.1	11 2.71
	<u>15</u> 9		<u>44</u> 3.20		<u>42</u> 2.40
	1.72		0.80		2.60

K Persei is ready.

Groups 70, and 2

14 Persei.			12 Persei.			β Persei.		
Cap 0.	Pinhole 5		Cap 0.	Pinhole 5		Cap 2.	Pinhole 5	
+19.5	1 2.43		+27.7			+39.8	5	~~8.90~~
21.4			27.6		14 1.69	39.6		
+158.6	19 2.23		+155.4		11 1.94	+140.4	5	1.00
18.2			25.9		0 1.83	36.1	11	1.17
-161.8	16 2.58		-154.1		4 1.87	-143.9	1	1.06
-19.5	1 2.43		-25.4		29 2.33	-38.3	22	2.2
	37	167			1.83			1.05
		2.42						1.52
								45

2 Persei			β Persei		
Cap 0	Pinhole 5		Cap 0	Pinhole 5	
+22.0	11 2.17		-0.45	-1.80	
25.1			0.80	-0.55	
+154.9	16 1.90		1.72	+0.37	
20.5			2.06	+0.71	
-159.5	26 2.32		2.60	+1.25	
-25.7	21 1.85				
	74	24			
		2.06			

$$2XX - 11 = +0.92$$

Mean error .16

Wednesday Oct. 21st 1874

β Persei		w Persei		κ Persei	
Cap 2.	Pinhole 5	Cap 0	Pinhole 5	Cap 0	Pinhole 5
+33.4	1.33	+28.7	1.62	+45.0	0.76
^{35.7}		^{28.2}		~~52.2~~ 47.7	0.68
+144.3	1.22	+151.8	1.66	~~112.7~~ +132.3	~~1.82~~
^{35.8}		^{30.9}		^{47.5}	
-144.2	1.19	-149.1	1.47	-132.5	0.64
-34.8	1.28	-34.9	1.28	-43.9	0.81
	<u>10.2</u>		<u>203</u>		<u>289</u>
	1.25		1.51		0.72
	1.52				
	<u>1.27</u>				

34 Persei		P. III 53		31 Persei	
Cap 0.	Pinhole 5	Cap 0.	Pinhole 5	Cap 0.	Pinhole 5
+23.5	2.04	+21.6	2.21	+18.2	2.58
^{26.9}		^{22.1}		^{18.3}	
+153.1	1.76	+157.9	~~2.16~~	+161.7	2.56
^{24.2}		^{21.9}		^{19.8}	
-155.8	1.97	-158.1	2.18	-160.2	2.40
-28.2	~~1.66~~	-22.8	2.12	-23.1	2.07
	<u>343</u>		<u>67</u>		<u>161</u>
	1.86		2.17		2.40

Groups 2, and 3.

30 Persei	1 Persei	α Persei
Capo.	Pinhole's Capo.	Pinhole's Capo 2.
+17.5	2.66 + 23.1	2.07 + 41.2
^{16.9}	^{22.6}	^{46.4}
+163.1	2.73 + 157.4	2.12 + 133.6
^{17.9}	^{22.5}	^{43.1}
-162.1	2.61 - 157.5	2.12 - 136.9
-17.7	2.64 - 23.6	2.03 - 47.2
	<u>24</u>	<u>34</u>
	2.66	2.08

0.92

0.72

0.84

0.68

316

0.49

2.51

 $\beta - 27 - 1.61 - 1.73$ $\kappa .72 - 0.62$ $\omega 1.51 + 0.17$

29 Persei	128 B Persei	ϵ Persei
Capo	Pinhole's Capo.	Pinhole's
+18.9	2.49 + 22.5	2.12 30 2.66 + 1.32
^{19.3}	^{23.0}	^{6.78}
+160.7	2.45 + 158.0	2.17 1.34
^{18.3}	^{23.1}	
-161.7	2.56 - 156.9	2.07 α - 1.73 - 3.27
-19.4	2.44 - 25.0	1.91 ^{Pm53} 2.17 + 0.63
	<u>194</u>	34 1.86 + 0.32
	2.48	27 29 2.48 + 0.94
		128 B 2.07 + 0.53
		2.07 31 2.40 + 0.86

$$\begin{array}{r} 69.25 \\ 1.54 \end{array}$$
 $11 - 111 = -0.20$

Wednesday Oct. 21st 1874

β Persei.	α Persei.	κ Persei.
Cap 2 Pinhole 5	Cap 0. Pinhole 5	Cap 0 Pinhole 5
+33.3 32.3	1.33 +25.0 29.1	1.91 +40.8 43.4
+147.7 34.5	1.39 +150.9 30.0	1.60 +186.6 49.1
-145.5	1.26 -150.0	1.53 -130.9
-38.3	1.06 -30.9	1.47 -48.7
<u>104</u>	<u>251</u>	<u>2</u>
1.26	1.63	0.75
1.52		
- .26		

34 Persei	γ Persei	σ Persei
Cap 0 Pinhole 5	Cap 0 Pinhole 5	Cap 0 Pinhole 5
+19.7 18.4	2.41 +29.1 30.9	1.60 +29.6 34.3
+161.6 162.0 18.0	2.55 +149.1 38.6	1.47 +148.7 33.4
-162.0	2.60 -146.4	1.31 -146.6
-20.0	2.37 -30.1	1.53 -33.2
<u>196</u>	<u>191</u>	<u>166</u>
2.49	1.48	1.41

After 2nd round, lamp was filed again.

Groups 2 and 4

30 Persei.	1 Persei.	157B Persei.
Capo.	Pinhodes. Capo	Pinhodes. Capo. Pinholes
+16.3	2.81 +22.3	2.74 +11.1
89.5	2.47	12.9
+160.5	2.43 +155.3	1.93 +167.1
78.8	22.8	11.0
-161.2	2.51 -157.2	2.10 -169.0
-20.0	2.37 -25.3	1.88 -12.9
	212	105
	2.53	2.01

Following	Persei	North
Cap D	Pinhodes Capo	Pinhodes
+21.4	2.23 +13.3	3.25
18.8	14.6	6.66
+161.2	2.51 +165.4	1.33
17.1	13.8	3.05
-162.9	2.71 -166.2	3.17
-16.9	2.73 -15.2	2.96
	218	43
	2.54	3.11

+08 +06 -13	-1.67	β -26 -1.59 -1.61 -1.80
00 -04 +03	-0.58	κ 75 -0.58 -0.62 -0.55
+02 -11 +09	+0.28	ω 1.63 +0.30 +0.17 +0.37
-03 +03 -00	+0.71	ε 2.01 +0.68 +0.74 +0.71
-06 +06 -01	+1.26	30 2.53 +1.20 +1.32 +1.25
	3.25	6.66
		1.33
	3.05	σ 1.41 -1.01
	3.17	ψ 1.48 -1.94
	2.96	36 2.49 + 0.7
	43	2.54 + 1.2
	3.11	116 3.11 + 69
		154 3.49 +1.07
		614.52
		21.42

$$II-IV = -1.09$$

Friday Oct. 22^d 1874.

36 Persei.

ψ Persei.

σ Persei.

Cap 0	Pinhole 5	Cap 0	Pinhole 5	Cap 0	Pinhole 5
+21.4	2.23	+33.6	1.31	+32.5	1.37
^{17.9}	^{29.6}	²⁵	^{25.5}	²⁷	
+162.1	2.61	+150.4	1.56	+151.5	1.64
^{16.5}	^{32.3}	^{32.6}			
-163.5	2.79	-147.7	1.39	-147.4	1.37
	<u>163</u>		<u>126</u>		<u>138</u>
	2.54		1.42		1.46

Δ Persei.

Δ Persei.

F 89.

Cap. 1	Pinhole 5, Cap 2	Pinhole 5, Cap 0	Pinhole 5
+43.2	0.84	+26.5	2.34
^{40.1}	^{19.6}	⁹⁹ ⁹⁵ ⁶³	
+139.9	0.98	+160.4	2.75
^{1.00}	<u>2</u>	<u>2.42</u>	<u>2.54</u>
	2	2.65	
91	0.91	<u>1.52</u>	
40	<u>36</u>	0.53	
0.21	0.55		

154 B can not be seen at all in the bright moonlight.

4 x 5
Groups ~~2~~ and ~~4~~

Following σ .North σ . Δ Persei.

Capo.

Pinhole 5. Capo

Pinhole 5. Capo

Pinhole 5

+17.5

2.66 +15.1

2.98 +72.2

0.11

158
+164.2

22 2.88 +167.1

34 3.32 +128.0

42 0.53

17.3
-162.715.4
2.68 -164.676.5
2.98 -103.5

0.06

2.22

23

0.70

2.74

3.08

0.55

0.53

3)1.78

0.59

 λ Persei.

A Persei.

Capo

Pinhole 5. Capo

Pinhole 5. Capo

Pinhole

+32.9

1.35 +19.1

2.47 σ 1.46 -1.02

28.9

26 1.61 +162.5

19 2.66 ψ 1.42 -1.06

+151.1

1.48

36 2.54 +0.06

f5 2.74 +0.26

n6 3.08 +0.60

154B - [1.15]

11.24

1.15

12.39

2.48

8 0.59 -1.20

 λ 1.48 -0.31

A 2.56 +0.77

F89 2.54 +0.75

7.17

1.79

IV-V = +0.69

Cambridge
Thursday Nov. 26 1874

v Persei		175 B Persei		176 B Persei	
Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+37.2	1.11. +15.3	2.95 +13.7	3.19		
^{42.3} +137.7	^{16.1} 0.88 +163.9	^{17.0} 2.84 +163.0	2.72		
^{51.7} -128.3	^{14.3} 0.54 -165.7	^{15.9} 3.10 -164.1	2.87		
- 57.3	0.38 -16.8	2.75 -16.8	2.75		
	<u>2.91</u>	<u>3.64</u>	<u>3.53</u>		
	0.73	2.91	2.88		

σ Persei		Following σ		North σ	
Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+31.0	1.47 +19.2	2.46 +14.1	3.13		
^{31.4} +148.6	^{18.3} 1.44 +161.7	^{16.5} 2.56 +163.5	2.79		
^{34.8} -145.2	^{15.2} 1.24 -164.8	^{14.5} 2.96 -165.5	3.07		
- 32.5	1.37 -17.9	2.61 -15.6	2.91		
	<u>1.52</u>	<u>2.59</u>	<u>3.90</u>		
	1.38	2.65	2.97		

Note-

175 B Persei has another magnitude

Groups 4 and 6.

171 B Persi	Lalande 6791	Ya Persi
Capo	Pinhole 5 - Capo	Pinhole 5
+17.4	2.69 + 12.7	3.35 + 36.6
^{17.0} +163.0	^{15.2} 2.72 + 167.8	^{34.4} 2.96 + 145.6
^{17.9} -162.1	^{14.9} 2.61 - 165.1	^{33.7} 3.01 - 146.3
-18.6	2.53 - 14.8	3.02 - 33.4
	<u>15</u>	<u>34</u>
	2.64	3.08

$$\begin{aligned}
 & \text{v Pen } 0.73 - 172 \quad 1.25 \\
 & 171B \quad 2.64 + .19 \\
 & 176B \quad 2.88 + .43 \\
 & 175B \quad 2.91 + .46 \\
 & \text{Lal} \quad 3.08 + .63 \\
 & \quad 2.24 \\
 & \quad 2.45
 \end{aligned}$$

36 Persi	157 B Persi	2.24 2.45
Capo	Pinhole 5 - Cap	Pinhole Cap
+19.5	2.43 + 13.5	3.22 5 1.38 - .94
^{21.0} +159.0	^{13.3} 2.27 + 166.7	4 1.25 - 1.07
^{19.4} -160.6	^{11.0} 2.44 - 169.0	36 2.31 - .01
-22.6	2.12 - 12.7	45 2.65 + .33
	<u>196</u>	157B 3.37 + 1.05
	2.31	<u>1.93</u>
		2.32

$$IV - VI = -0.13$$

Thursday Nov. 26 1874

γ Persei

γ Persei

175 B Persei

Capo

Pinhole's Capo

Pinhole's Capo

Pinhole's

+46.6
41.5
+138.5

0.71 + 33.8

0.59

1.30 + 16.3

2.81

0.91 + 147.9

0.49

1.40 + 162.9

2.71

0.81

0.54

0.54

1.35

2.76

0.99
0.90

36
99

δ Persei

δ Persei

F 89

Cap 1

Pinhole's Cap 2

Pinhole's Cap 0

Pinhole's

+43.8
49.0
+131.0

0.81 + 20.4

1.52

2.33 + 18.3

2.56

0.62 + 156.4

1.41

2.03 + 160.9

2.47

0.71

1.46

2.18

2.51

36

1.52
0.66

0.35

0.66

1.01

0.50

Groups 5 and 6

176 B Persei	171 B Persei	Lacaille 7691
Capo	Pinhole 5	Capo
+17.1	2.71 + 17.6	2.66 + 14.1
^{14.4}	^{17.3}	^{13.5}
+168.6	3.08 + 162.7	2.68 + 166.5
	<u>2.89</u>	<u>2.66</u>
		3.13
		<u>3.22</u>
		3.17

174

1 Persei	1 Persei	A Persei
Capo	Pinhole 5	Capo
+33.2	1.33 + 25.3	1.88 + 19.0
^{34.5}	^{25.2}	^{21.4}
+145.5	1.26 + 154.8	1.89 + 158.6
	<u>1.29</u>	<u>1.88</u>
	<u>1.52</u>	<u>3.6</u>
	81	1.52
δ 0.50 - 1.19	υ 0.90 - 1.57	
λ 1.40 - .29	171B 2.66 + .19	
A 2.35 + .66	176B 2.76 + .29	
F89 2.51 + .82	175B 2.89 + .42	
	Lat 3.17 + .70	
<u>6.78</u>	<u>12.38</u>	
1.69	2.47	

$$V-V_1 = 20.78$$

1874

Nov. 26th 1874 ~~12th Ann.~~

49 Aurigae		45 Aurigae		47 Aurigae	
Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+24.0	1.99	+22.6	2.12	+25.1	1.90
^{24.5} +155.5	1.95	^{21.8} +158.2	2.19	^{23.3} +156.7	2.05
^{25.1} -154.9	1.90	^{19.9} -160.1	2.39	^{25.7} -154.3	1.85
-23.1	2.07	-22.2	2.15	-25.3	1.88
	<u>3.91</u>		<u>85</u>		<u>3.68</u>
	1.98		2.41		1.92

21 Lyncis		22 Lyncis		P VII 92	
Capo	Pinhole 5	Capo	Pinhole 5	Capo	Pinhole 5
+27.0	1.75	+20.4	2.33	+18.2	2.58
^{30.1} +149.9	1.53	^{21.2} +158.8	2.25	^{17.0} +163.0	2.72
^{28.5} -151.5	1.64	^{20.5} -159.5	2.32	^{16.7} -163.3	2.76
-29.4	1.57	-22.7	2.11	-16.3	2.81
	<u>9</u>		<u>21</u>		<u>7</u>
	1.62		2.25		2.72

Groups 14 and 15

64 Aurigae		66 Aurigae		8 H Lynceis	
Cap 0	Pinhole 5	Cap 0	Pinhole 5	Cap 0	Pinhole 5
+18.0	2.60	+23.1	2.07	+25.4	1.87
^{5.1} +164.9	2.98	^{20.6} +159.4	2.31	^{21.9} +158.1	2.18
^{14.5} -165.5	3.07	^{23.4} -156.6	2.03	^{20.4} -159.6	2.93
-16.2	2.83	-24.6	1.94	-24.7	1.93
	<u>3.48</u>		37		<u>31</u>
	2.87		2.09		2.08

43 B Lynceis					
Cap 0	Pinhole 5	Cap	Pinhole	Cap	Pinhole
+17.4	2.67	44	1.98	-27	21
^{17.0} +163.0	2.72	45	2.41	+16	8H 2.08
^{15.9} -164.1	2.87	47	1.92	-.33	Rv 156 -
-17.2	2.70	66	2.09	-.16	26 -
	<u>16</u>	64	2.87	+62	43 B 2.74
	2.74		<u>1.27</u>		4w [+0.03]
			2.25		Pv 92 2.72 [+0.06]
					25 [+0.20]
					[+0.67]
					<u>9.16</u>
					<u>.92</u>
					4) 10.08
					2.52
					224 2.25 - .27

AW-KVS-.27

Thursday,

Nov. 26 ' 1844

r Persei

175 B Persei

176 B Persei

Cap 1

Pintule 5 Cap 0

Pintule 5 Cap 0

Pintule 5

+ 30.5

1.50 + 12.1

3.46 + 16.9

2.73

+ 148.3

1.42 + 165.0

2.99 + 164.1

2.87

- 143.2

1.13 - 167.0

3.30 - 163.7

2.81

- 34.5

1.26 - 15.8

2.88 - 18.2

2.58

13.1

63

29.9

1.33

3.16

2.75

36

0.97

M Persei

D Persei

B Persei

Cap 0

Pintule 5 Cap 0

Pintule 5 Cap 0

Pintule 5

+ 37.0

1.12 + 25.9

1.83 + 27.0

1.75

+ 148.7

1.16 + 153.8

1.81 + 151.3

1.62

- 142.3

1.09 - 155.6

1.96 - 155.6

1.96

- 86.2

1.17 - 30.2

1.52 - 32.2

1.39

14

- 25.3

1.88

- 27.4

1.72

1.13

28

25

1.87

1.76

X Groups 6 and 7.

171 B Persei

Landland 7,691

C Persei

Cap O.	Pinhole 5.	Cap O.	Pinhole 5.	Cap O.	Pinhole 5.
+17.7	2.64	+13.0	3.30	+34.1	1.28
^{15.3} +164.7	2.95	^{15.1} +164.7	2.98	^{35.0} +145.0	1.23
^{16.0} -164.0	2.85	^{12.7} -167.3	3.35	^{37.9} -142.1	1.08
-16.8	2.75	-16.0	2.85	-38.9	1.03
	319		48		62
	280		3.12		1.15

F5 Persei

Cap O.	Pinhole 5.	Cap O.	Pinhole 5.	Cap O.	Pinhole 5.
+16.6	2.77	V	0.97 - 1.59	c	1.15 - 0.60
^{17.5} +162.5	2.66	171B	2.80 + 0.24	m	1.13 - 0.62
^{14.9} -165.1	3.01	176B	2.75 + 0.19	b	1.76 + 0.01
-16.0	2.85	175B	3.16 + 0.60	d	1.87 + 0.12
	329	dal	3.12 + 0.56	F5	2.82 + 1.07
	2.82		12.80		3.73
			2.56		1.75

$$VI-VII = +0.81$$

Thursday Nov. 26th 1874

[45B]

Cap. 2

North preceding

P. IV. 184

Cap. 2	Pink. 3	Cap. 0 -
+ 53.0	0.50	+ 16.6
^{51.8}		^{18.0}
+ 128.2	0.53	+ 162.0
^{67.7}		^{14.8}
- 112.3	0.17	- 165.2
	<u>0.40</u>	
	1.52	
	- 1.32	
	1.47	
	<u>- 2.59</u>	

Pink. 5	Cap. 0
2.77	+ 16.2
	^{19.0}
2.60	+ 161.0
	^{17.2}
3.02	- 162.8
<u>2.39</u>	
2.80	

Pink 5
2.83
2.48
2.70
<u>2.09</u>
2.67

3 Aurigae

7 Aurigae

18 B Aurigae

Pink 5	Cap. 1	Cap. 1
+ 31.9	1.46	+ 41.6
^{33.9}		^{39.2}
+ 146.1	1.29	+ 140.8
^{34.1}		^{44.1}
- 145.5	1.28	- 135.9
	<u>98</u>	
	1.33	
	36	
	<u>0.97</u>	

Pink 5	Cap. 0
0.86	+ 12.0
	^{13.7}
1.02	+ 166.3
	^{12.6}
0.80	- 167.4
<u>2.68</u>	
0.89	
36	
<u>0.53</u>	

Pink. 5
3.48
3.19
3.37
<u>3.35</u>

9 10
Groups ~~8~~ and ~~8~~

235 B Aurigae	233 B Aurigae	E Aurigae
Capo.	Pinhole 5 Capo	Pinhole 5 Capo
+15.8	2.88 +16.7	2.76 +34.7
~~+17.5~~	~~16.4~~	~~31.2~~
+162.5	2.66 +163.6	+148.8
+166.7	3.42 +162.9	2.71 +29.8
-164.9	2.98 -165.2	-150.4
	<u>.28</u>	<u>1.56</u>
	3.09	1.27
		1.42
		<u>86</u>
		1.06

14 B Aurigae	1 Aurigae	2 Aurigae
Capo. 5	Pinhole 5 Capo	Pinhole 5 Capo
+15.9	2.87 +25.1	1.90 +19.1
~~16.3~~	~~26.0~~	~~18.0~~
+163.7	2.81 +154.0	1.82 +162.0
~~16.2~~	~~26.3~~	~~17.4~~
-163.8	2.83 -153.7	1.80 -162.6
	<u>2.84</u>	<u>2.62</u>
		1.74
		2.58

Nov. 26th 1874

South preceding α		South following α				
Cap 0	Pink S	Cap. 0	Pin 5			
+16.0	2.99	+16.4	2.80	45B	-2.89	-4.35
^{16.5} +163.5	2.79	^{17.7} +162.3	2.64	Piv 184	2.80	+1.04
^{16.6} ~~+163.4~~	2.77	^{15.6} ~~-164.2~~	~~2.68~~	233B	2.67	+0.91
^{17.3} -162.7	2.68	^{17.2} -162.8	2.70	235B	2.83	+1.07
	3		14		3.09	+1.33
	2.81		2.73		8.80	
					1.76	

$$1x - x = -0.32$$

η	0.53	-1.55
ξ	0.97	-1.11
ϵ	1.06	-1.02
λ	1.84	-0.24
θ	2.58	+0.50
sf θ	2.73	+0.65
sp θ	2.81	+0.73
14 B	2.84	+0.76
18 B	3.35	+1.27
	18.71	
	2.08	

16.17

Nov, 2nd 1872 A.H.

8 H Lyncis

21 Lyncis

P. VII 92

Cap. 0	Pink 5	Cap. 0	Pink 5	Cap. 0	Pink 5
+24.8	1.92	+28.4	1.64	+13.8	3.17
+15 ^{24.3} 5.7	1.97	+15 ^{27.3} 2.7	1.72	+16 ^{27.4} 2.6	2.67
	<u>1.94</u>		<u>1.68</u>		<u>2.92</u>

Anonima

25 Lyncis

26 Lyncis

Cap. 0	Pink 5	Cap. 0	Pink 5	Cap. 0	Pink 5
+16.7	2.76	+12.3	3.42	+18.3	2.56
+16 ^{19.9} 0.7	2.47	+16 ^{14.6} 5.4	3.05	+16 ^{19.9} 0.7	2.39
	<u>2.61</u>		<u>3.23</u>		<u>2.47</u>

Nov

25 Bonaventura 26

Groups 15 and 17

43 B Lynx

RTH 156

South fol. East.

Cap. 0

Pink 5

Cap. 0

Pink 5

Cap. 0

Pink 5

$$\begin{array}{r}
 +18.0 \\
 +100.1 \\
 \hline
 118.1
 \end{array}$$

2.53

+14.7

3.04

+17.3

2.68

2.39

+13.2

2.96

+163.2

2.75

2.46

3.00

2.71

$$\begin{array}{r}
 3.04 \\
 1.89 \\
 \hline
 4.93 \\
 2.46
 \end{array}$$

L Ursae Majoris

K Ursae Majoris

Heis

Cap. 2.

Pink 5

Cap. 2

Pink 5 - Cap. 0

Pink 5

+22.7

2.11

+19.4

2.44 +18.9

2.48

$$\begin{array}{r}
 24.6 \\
 +155.4 \\
 \hline
 180.0
 \end{array}$$

1.94

+159.5

2.32 +158.9

2.26

2.02

2.38

2.37

1.52

1.52

0.50

0.86

P. ~~IX~~ 19

$$\begin{array}{r} \text{Cap } 0 \\ +17.1 \\ +166.3 \end{array}$$

Pink. 5 Cap 0

$$\begin{array}{r} 2.71 + 16.5 \\ 3.19 + 16.1 \\ \hline 2.95 + 16.27 \end{array}$$

P. ~~VIII~~ 202

Pink. 5 Cap 0

$$\begin{array}{r} 2.79 + 21.6 \\ 2.59 + 15.73 \\ \hline 2.68 \\ 2.73 \end{array}$$

35 Ursa Maj.

Pink. 5

$$\begin{array}{r} 2.21 \\ 2.11 \\ \hline 2.16 \end{array}$$

Cap

Pink

Cap

Pink

Cap

Pink

34 Ursae Major					
Capo	Pink	Cap	Pink	Cap	Pink
+20.6	2.31	214	1.68 - 82	U	0.50 - 1.46
+160.6	<u>2.44</u>	84	1.94 - 58	K	0.86 - 1.10
	2.37	Pm 156	2.74 + 26	34	2.37 + .41
		26	2.47 - 05	Pm 202	2.73 + .77
		43 B	2.46 - 08	Wein	2.37 + .41
		Anon	2.61 + 09	Pix 15	2.95 + .99
		Pm 92	2.92 + .40		<u>11.78</u>
		26	3.23 + .79		1.96
			<u>20.82</u>	35	2.16 + 0.20
			2.50		
		Pm 156	3.00 + .50		
Capo.	Pink.	Capo.	Pink	Capo.	Pink
			XV - XVII =		+ 0.58

alt
thru
Nov. 26 1874

2	39 H Ursa Maj.	36 H Ursa Maj.
Cap 2	Cap 0	Cap 0
Pink 5	Pink 5	Pink 5
+29.4	+16.7	+17.9
+155.0	+159.4	+158.3
1.72	2.53	2.40
1.52		
0.20		

F431

2 Pegasi

D Pegasi

Cap 0	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
+23.5	2.04	+38.3	1.06	+34.9	1.24
+159.5	2.32	+143.8	1.17		1.21
	2.18		1.11		

now
4 is ready

Groups 1 and 2
(att.)

~~g Pegasi~~		γ Persei		τ Persei	
14913 Ursae Maj					
Cap 0	Pinh. 5	Cap 2	Pinh. 5	Cap 0	Pinh. 5
+13.2	3.27	+28.0	1.67	+39.5	1.00
^{13.0} +167.0	3.30	^{25.9} +154.1	1.83	^{43.3} +136.7	0.83
	3.28		1.75		0.91
			1.52		
			0.23		

γ	0.23	-.90	ψ	0.20	-2.36
τ	0.91	-.22	36H	2.40	-.16
υ	1.11	+0.20	39H	2.53	-.03
υ	1.24	+1.1	RN		[53]

Cap	F431	~~2.18~~ +1.105	Cap	149BS	3.28 + 0.72	Cap
		5.67		149Bn	[1.32]	
		1.13			8.41	
					1.85	
					4) 16.26	
					4.56	

$$1 - XX1 = -1.43$$

Nov. 26 1874

θ Ursae Maj. Companion γ θ 31 Ursae Maj.
 Cap 2 Pinh 5 Cap 0 Pinh 5 Cap 0 Pinh 5
 +21.7 2.20 +29.9 1.54 +20.6 2.31

+20.0
 0.00 0.68 -1.53
 Pix 169 3.88 +1.87
 22H - [57]
 31 2.31 +1.0
 8.87
 57
 3) 7.44
 229

θ 0.68 -1.25
 [+0.30]
 Pix 169 [+0.57]
 22H +0.38
 31 2.31
 2.99
 87
 2) 3.86
 1.93
 1.54
 3.88

Comp D 1.93 - .39
 Pix 169 1.54 +1.95
 3.88

λ 0.58 -1.51
 31 1.05 -1.04
 33H 1.64 -0.45
 Comp 3.02 +0.93
 32 3.05 +0.96
 38 3.20 +1.11
 12.54
 2.09
 0.09 -2.00

XIX - XX = -.16

Companion γ 4 53H Ursae Maj. 31 Leonis Minoris
 Cap 0 Pinh 5 Cap 0 Pinh 5 Cap 0 Pinh 5
 +14.8 3.02 +28.5 1.64 +38.5 1.05

Groups 19 & 20

P II 169		2 Ursa Maj.		4 Ursa Maj.	
Cap 0	Rich 5	Cap 1	Rich 5	Cap 1	Rich 5
+10.0	3.88	+40.9	0.94	+54.7	0.45
			36		0.36
			0.58		0.09

32 Leonis Minoris		38 Leonis Minoris	
Cap 0	Rich 5	Cap 0	Rich 5
+14.6	3.05	+13.6	3.20

Note

P. II 169 is the southernmost of the

Nov. 26¹⁵ ψ Ursae Maj. 39 H Ursae Maj. 30 H Ursae Maj.

Cap 2 Pink 5 Cap 0

$$\begin{array}{r}
 +25.1 \\
 +154.8 \\
 -154.3 \\
 \hline
 216 \\
 21 \\
 \hline
 1.90 \\
 1.89 \\
 1.85 \\
 \hline
 1.88 \\
 1.52 \\
 0.36
 \end{array}$$

Pink 5 Cap 0

$$\begin{array}{r}
 2.41 + 2.15 \\
 1.90 + 156.2 \\
 2.07 - 159.3 \\
 \hline
 9.8 \\
 2.33
 \end{array}$$

Pink 5

$$\begin{array}{r}
 2.22 \\
 2.01 \\
 2.30 \\
 \hline
 2.18
 \end{array}$$

210 B Ursae Maj. South of 0 + 210 B

Cap 0 Pink 5 Cap 0

$$\begin{array}{r}
 +13.9 \\
 +165.2 \\
 -169.1 \\
 \hline
 3.16 \\
 3.02 \\
 3.69 \\
 \hline
 8.7 \\
 3.29
 \end{array}$$

217 Ursae Maj.

Pink 5 Cap 0

$$\begin{array}{r}
 3.19 + 23.9 \\
 2.89 + 156.4 \\
 3.19 - 155.1 \\
 \hline
 3.09
 \end{array}$$

Pink 5

$$\begin{array}{r}
 2.00 \\
 2.04 \\
 1.91 \\
 \hline
 2.95 \\
 1.98
 \end{array}$$

Groups 21422

149B South Ursae Maj.			149B North Ursae Maj. w Ursae Maj.		
Cap 0	Pink 5		Cap 0	Pink 5	Cap 0
+9.7	3.94		+9.1	4.08	+24.3
^{13.7} +166.3	3.19		^{10.2} +169.8	3.83	^{26.9} +153.7
^{9.8} -170.2	3.92		^{9.8} -170.2	3.52	^{24.9} -155.1
	<u>20.5</u>			<u>2.83</u>	^{2.13} 2.19
	3.68			3.94	1.97
¹⁶⁰ 4.1			^{43.8} 4.1		1.76
					1.91
					1.88

49 Ursae Maj.			56 Ursae Maj.			58 Ursae Maj.		
Cap 0	Pink 5		Cap 0	Pink 5		Cap 0	Pink 5	
+25.6	2.07	1.86	+22.3	2.14		+16.4		2.80
^{23.6} +156.4	2.26	2.03	^{23.0} +157.0	2.08		^{17.6} +162.4		2.66
^{2.4} -157.6	2.38	2.13	^{22.3} -157.7	2.14		^{17.4} -162.6		2.67
		<u>0.2</u>		<u>2.12</u>				<u>2.70</u>
		2.00						

Note

3-8 is the middle of the three

59 Wren Maj 57 Wren Maj:

Capo

$$\begin{array}{r}
 +18.1 \\
 +16.4^{18.6} \\
 -16.2^{17.5}
 \end{array}$$

$$\begin{array}{r}
 287 \\
 19 \\
 18
 \end{array}$$

pink Capo

$$\begin{array}{r}
 2.59 + 24.1 \\
 2.53 + 15.9^{20.9} \\
 2.66 - 15.9^{20.4}
 \end{array}$$

$$\begin{array}{r}
 2.8 \\
 2.59
 \end{array}$$

pink Capo

$$\begin{array}{r}
 1.98 \\
 2.28 \\
 2.33
 \end{array}$$

$$\begin{array}{r}
 59 \\
 2.20
 \end{array}$$

Capo

ψ 36H 39H 2H

149Bs

149Bw

pink

$$\begin{array}{r}
 0.36 - 2.24 \\
 2.18 - 4.7 \\
 2.33 - 2.7 \\
 [0.53]
 \end{array}$$

$$3.68 + 1.08$$

$$3.94 + 1.24$$

$$12.45$$

$$53$$

$$513.02$$

$$2.50$$

Cap

pink

Cap

pink

Cap

pink

$$XXI - XXII = +13$$

Cap		Rich	Cap	Rich	Cap	Rich
56	2.12	-0.35				
47	1.98	-0.49				
49	2.01	-0.46				
57	2.20	-0.27				
59	2.59	+0.12				
504		[+0.39]				
58	2.71	+0.24				
210B	3.29	+0.72				
	16.90					
	39					
	7) 17.29					
Cap	2.47	Rich	Cap	Rich	Cap	Rich
w	1.88	-0.59				
Sw x 210B	3.09	+0.62				

Monday Nov. 30th 1874

Lalande 6791 171 B Persei

Cap 0 Pink 5 Cap 0

$+14.6$ 3.40 3.05 $+20.1$
 $+16.7$ 3.08 2.76 $+18.0$
 $+16.3$ 3.24 3.17 $+19.1$
 -16.4 3.13 2.81 -17.9
 -16.3 3.13 2.81 -17.9

 11.4 3.99
 2.95
 82 20
 320 82 20
 88

v 0.68 -1.60
 1718 2.51 $+0.23$
 1768 2.42 $+0.14$
 1758 2.84 $+0.56$
 2.95 $+0.67$
 1.40
 2.28

VI-VIII = +81

176 B Persei

Pink 5 Cap 0

2.36 $+19.4$
 2.60 $+16.8$
 2.47 -16.1
 2.61 -19.2

 4 2.51
 2.51
 280 28
 2
 2.51

cc 0.05 -1.42
 cc 0.87 -0.60
 bf 1.40 -0.07
 sq 2.03 $+0.56$
 Asm 3.01 $+1.54$
 7.36
 1.47

Pink 5

2.44
 2.40
 2.39
 2.46

 9 2.42
 2.42
 26
 26
 26

v Persei

e Persei

Persei

Cap 2 Pink 5 Cap 2

$+21.2$ 2.25 $+24.1$
 $+15.6$ 3.14 2.05 $+148.6$
 -15.7 3.00 2.10 -150.0
 -17.9 2.61 -33.5

 2.25
 1.20
 1.05

1.01
 2.25
 1.52
 0.73

175
 17
 158

Pink 5 Cap 0

1.98 $+28.7$
 1.44 $+147.3$
 1.53 -146.5
 1.32 -33.4

2.27
 1.57
 1.52
 0.05

Pink 5

1.62
 1.36
 1.32
 1.32
 1.62
 1.40

Group 678

175-B Persei	Pinh 5	r Persei	Pinh 5	r Persei	Pinh 5
Cap 0		Cap 0		Cap 1	Pinh 5
4) +16.2	2.83	+46.3	0.72	+32.6	65 1.37
16.5		48.8		39.5	
0 +16.3.5	2.79	+131.2	0.63	+140.5	37 1.00
14.5		62.3		35.4	
9 -165.5	3.07	-117.7	0.27	-144.6	94 1.21
6 -17.3	2.68	-61.3	0.29	-35.2	93 1.22
	3.37		1.91	12.0	80
	2.84		0.48	0.72	1.20
31.6		53	0.84	13	3.6
37		0	0.73		0.84
89			2.05		
			0.68		

e Persei		m Persei		0.68		5-9 Persei	
Capo	Pinh 5	Capo	Pinh 5	Capo	Pinh 5	Capo	Pinh 5
+39.0	1.02	+13.1	3.66	3.29	+23.2		2.06
^{37.0} +143.0	1.12	^{16.9} +143.1	3.05	2.73	^{21.6} +158.4		2.21
^{47.1} -132.9	0.69	^{14.6} -166.4	3.40	3.05	^{24.1} -153.9		1.98
-48.6	0.64	~~-17.8~~	~~2.48~~	-25.2			1.89
	3.47	-15.0	3.33	2.99			14
97	0.87		17.4	0.6			2.03
		33.8	3.6	3.01			

note

m is double with a small star north of it

Nov. 30th 1874

E Persei

f Persei

C Persei

Cap 2

Pink 5 Cap - 0

Pink 5

Cap 0

Pink 5

Cap 0

+25.2

1.89 +29.9

1.54 +40.0

0.98 +

32.7
+147.3

1.36 +147.5

1.37 +140.5

1.00 +

181

12.51.45

0.99

15

1.62

162

31.52

1.6

0.10

6

233 B Persei

235 B Persei

P IV 184

Cap. 0

Pink 5 Cap 0

Pink 5

Cap 0

Pink 5

Cap 0

+16.6

2.77 +16.6

2.77 +17.3

2.68 +

22.4

17.8

2.2.5

+157.6

2.13 +162.2

2.62 157.5

2.172 +

2.452.692.40273
27

300

268

Groups 8 & 9

e Persei

m Persei

59 Persei

Cap 1

Pink 5 Cap 0

Pink 5 Cap 0 Pink 5

$$\begin{array}{r}
 +27.9 \\
 34.3 \\
 +145.7 \\
 \hline
 164 \\
 16 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1.68 +15.0 \\
 1.27 +14.8 \\
 \hline
 1.47 +165.7 \\
 \hline
 36 \\
 \hline
 1.11
 \end{array}$$

$$\begin{array}{r}
 2.99 +25.1 \\
 3.10 +24.8 \\
 \hline
 3.04 +155.2 \\
 \hline
 213 \\
 21 \\
 \hline
 1.91
 \end{array}$$

$$E \quad 0.10 -1.42$$

$$p \quad 1.11 -0.41$$

$$f \quad 1.45 -0.07$$

$$sq \quad 1.91 +0.39$$

$$m \quad 3.04 +1.52$$

2 Aurigae

His

Cap 2

Pink 1 Cap 0

Pink 5 Cap 7.61 Pink 1.52

$$\begin{array}{r}
 +25.7 \\
 22.7 \\
 +147.3 \\
 \hline
 179 \\
 18 \\
 \hline
 161
 \end{array}$$

$$\begin{array}{r}
 1.85 +21.1 \\
 1.36 +24.3 \\
 \hline
 1.21 +155.7 \\
 \hline
 1.60 \\
 1.52 \\
 \hline
 0.08 \\
 3.02 \\
 \hline
 -3.10
 \end{array}$$

$$\begin{array}{r}
 2.26 \alpha -3.10 -4.41 \\
 1.97 ASB 2.11 +0.80 \\
 \hline
 2.11 Piv 184 2.40 +1.09 \\
 233B 2.45 +1.14 \\
 235B 2.69 +1.38 \\
 \hline
 6.55 \\
 1.31
 \end{array}$$

$$VII - IX = +21$$

Nov. 30th 1874

E Aurigae

C Cap 0

Pink 5

Cap 1

$$\begin{array}{r}
 ++51.1 \\
 \quad 52.6 \\
 ++127.4 \\
 \quad 45.5 \\
 -134.5 \\
 \hline
 \end{array}$$

0.56

+36.8

0.57

+148.0

0.75

-146.9

20

0.61

1.29

0.93

0.68

1.54

0.77

$$\begin{array}{r}
 1.29 \\
 61 \\
 \hline
 0.68
 \end{array}$$

E Aurigae

Pink 5

3 Aurigae

Pink 5

1.13

+35.8

1.41

+140.0

1.34

-141.8

88

1.29

120

36

0.93

1.19

0.98

1.06

23

1.08

36

0.72

2 Aurigae

C Cap 0

Pink 5

Cap 0

$$\begin{array}{r}
 ++28.2 \\
 \quad 25.9 \\
 ++154.1 \\
 \quad 30.1 \\
 -149.9 \\
 \hline
 \end{array}$$

1.66

+18.8

1.83

+160.3

1.53

-159.9

22

1.67

186

2 Aurigae

Pink 5

South preceding 2

Pink 5

2.40

+19.6

2.41

+161.3

2.36

-160.5

1.17

2.39

2.72

2.52

2.43

14

2.46

$$\begin{array}{r}
 2.66 \\
 27 \\
 \hline
 1
 \end{array}$$

$$\begin{array}{r}
 274 \\
 27 \\
 \hline
 47
 \end{array}$$

Groups 10 and 11

7 Aurigae				18 B Aurigae				14 B Aurigae			
Cap 1		Pink 5		Cap 0		Pink 5		Cap 0		Pink 5	
1	+36.4	1.29	1.15	+14.8		3.02	+15.6	3.24	2.91		
	+4.6										
8	+185.4	0.87	0.78	+164.4		2.98	+164.1	3.19	2.87		
6	-128.1	0.59	0.53	-165.7		3.10	-163.5	3.10	2.79		
3		2.75	2.46			1.0		53			
8								18	17		
6	93	92	0.82			3.03			2.86		
			36								
2			0.46								

Smith foll. 2				11 Aurigae				36 Aurigae			
Cap 0		Pink 5		Cap 0		Pink 5		Cap 0		Pink 5	
5	+17.0	3.03	2.72	+33.1		1.34	+17.0		2.72		
2	+161.7	2.86	2.56	+146.0		1.29	+162.7		2.68		
	-163.2	3.06	2.75	-147.6		1.38	-164.5		2.92		
		2.98	2.68			1.1			2.2		
						1.34			2.77		
	278										
	28										
	50										

41 Aurigae		P.V 280		0 Aurigae	
Capo	Pink 5	Capo	Pink 5	Capo	Pink 5
+17.8	2.66	+14.5	3.07	+15.6	2.91
+15.0	2.99	+12.4	3.41	+19.7	2.41
+165.0	284	+167.6	3.02	+160.3	2.80
-163.9	249	-14.8	58	-163.6	2.12
	2.83		3.17		2.71

$$\begin{array}{r} 315 \\ 31 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 353 \\ 35 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 301 \\ 30 \\ \hline 71 \end{array}$$

Capo Pink Capo Pink Capo Pink

Note.

P.V 280 is at the right angle of the Δ

Cap	Prin	Cap	Prin	Cap	Prin
η	0.46 -1.43	π	1.34 -1.22		
ζ	0.72 -1.17	$\circ$	2.71 + 1.15		
ϵ	0.77 -1.12	36	2.77 + 2.1		
λ	1.67 -0.22	Pv280	3.17 + 6.1		
ς	2.39 +0.50	41 Au	2.83 + 2.7		
sf ς	2.68 +0.79		2.82		
sp ς	2.46 +0.57		2.56		
14B	2.86 +0.97				
18B	3.03 +1.14				
Cap	17.084 Prin	Cap	Prin	Cap	Prin
	1.89				

$$x - x_1 = -1.67$$

Nov. 30th 1874 β Annigae

38 Annigae

North preceding 38

Cap 2

Pink 5

Cap 0

Pink 5

Cap 0

Pink 5

$$\begin{array}{r}
 + 38.9 \\
 38.9 \\
 + 141.1 \\
 44.4 \\
 - 135.6
 \end{array}$$

$$1.03$$

$$+ 124$$

$$3.41$$

$$+ 12.5$$

$$3.39$$

$$1.03$$

$$+ 165.4$$

$$3.05$$

$$+ 166.5$$

$$3.22$$

$$0.79$$

$$- 166.6$$

$$3.23$$

$$- 168.6$$

$$3.59$$

$$2.85$$

$$69$$

$$1.20$$

$$0.95$$

$$3.23$$

$$3.40$$

$$1.52$$

360

$$- 0.57$$

 ~~γ^9 Annigae~~ ~~γ^5 Annigae~~ ~~γ^{10} Annigae~~~~Cap 0~~~~Pink 5~~~~Cap 0~~~~Pink 5~~~~Cap 0~~~~Pink 5~~

$$+ 26.6$$

$$1.78$$

$$+ 19.5$$

$$2.43$$

$$+ 23.9$$

$$2.00$$

$$- 75.5$$

$$+ 156.8$$

$$2.06$$

$$- 155.9$$

$$1.98$$

$$22.8$$

$$28$$

$$2.01$$

note38 Annigae is the right $\angle$ of a small Δ

Groups 112 + 113

Northfolli 38	4 ³ Annigae	4 ² Annigae
Cap 0	Prin 5	Cap 0
+14.9	3.01 +18.3	2.86 2.56 +27.4
+16 ^{17.0} 3.0	2.72 +160.8	2.74 2.46 +154.3
-16 ^{14.9} 5.1	8.01 -162.7	2.91 2.61 -154.1
	2.74	2.51 1.63
	2.91	2.54
324		201
82		

4 ⁹ Annigae	4 ⁵ Annigae	4 ¹ Annigae
Cap 0	Prin 5	Cap 0
+13.3	3.25 +17.8	2.62 +27.3
+16 ^{13.7} 6.3	3.19 +160.6	2.44 +153.4
-16 ^{15.5} 4.5	2.92 -158.2	2.19 -154.0
	36	125
317	3.12	2.42
	269	198
		22
		1.77

note
4⁹ is the middle one of three

420

42 Aurigae

43 Aurigae

Cap 0

Pink

Cap 0

Pink & Cap

Pink

$$\begin{array}{r}
 +11.5 \\
 +14.2 \\
 +165.8 \\
 -169.5
 \end{array}$$

$$\begin{array}{r}
 3.57 +14.0 \\
 3.11 +162.8 \\
 3.77 -162.9 \\
 \hline
 145 \\
 3.48
 \end{array}$$

$$\begin{array}{r}
 888 \\
 80 \\
 \hline
 49
 \end{array}$$

$$\begin{array}{r}
 364 \\
 36 \\
 \hline
 28
 \end{array}$$

$$\begin{array}{r}
 3.14 \quad \beta - 0.57 - 2.55 \\
 3.34 \quad \psi^2 \quad 1.81 - 0.47 \\
 3.32 \quad \psi^3 \quad 2.54 + 0.56 \\
 \hline
 80 \quad f38 \quad 2.91 + 0.93 \\
 3.27 \quad 38 \quad 3.23 + 1.25
 \end{array}$$

$$\begin{array}{r}
 9.92 \\
 1.98
 \end{array}$$

$$\begin{array}{r}
 n p 38 \quad 3.40 + 1.42
 \end{array}$$

Cap

Pink

Cap

Pink

Cap

Pink

Cap	Pink	Cap	Pink	Cap	Pink
ψ^{10}	2.01	-0.73			
ψ^1	1.77	-0.97			
ψ^6	2.42	-0.32			
ψ^9_N	3.12	+0.38			
ψ^9_S		[+0.40]			
43	3.27	+0.53			
42	3.48	+0.74			

16.07

46

16.47

Cap	Pink	Cap	Pink	Cap	Pink
	2.74				

$$XII - XIII = -0.76$$

Nov. 30th 1874

29 Ursae Maj. Comp. of θ			31 Ursae Maj.		
Cap 2	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
+21.3	2.24	+28.9	1.61	+20.3	2.34
^{22.6} +157.4	2.12	^{25.1} +154.9	1.90	^{19.2} +160.8	2.46
^{21.3} -158.7	2.24	^{22.5} -157.5	2.12	^{19.3} -160.7	2.45
	<u>2.20</u>		<u>2.63</u>		<u>5</u>
245	1.52	209	1.88	269	2.42
	<u>0.68</u>				

μ Ursae Maj. Comp. of μ			33H 63 VIII Ursae Maj.		
Cap 2	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
+23.9	2.00	+14.8	3.02	+24.3	2.19 1.97 (46)
^{26.8} +153.2	1.76	^{17.0} +163.0	2.72	^{22.6} +157.4	^{23.6} 2.12
^{20.2} -159.8	2.35	^{13.8} -166.2	3.17	^{23.5} -154.5	^{20.8} 1.87
θ 0.68 - 123	11	λ 1.08 - 1.15	2.91		2.96
π 169 2.01 + 0.10	2.04	31 1.36 - .87	2.97		1.99
22H 2.54 + 0.63	1.52	33H 1.99 - 24			
31 2.42 + 0.51	0.52	Comp 2.97 + 74			
<u>7.65</u>		32 3.09 + 86			
1.91		38 2.90 + 67			
Comp θ 1.88 - 0.03		<u>13.39</u>			
		2.23			
		μ - 0.52 - 1.71			

XIX - XX = - .32

Groups 194 20

P. IX 169		22 H Ursa Maj		2 Ursa Maj.	
Cap 0	Pink 5	Cap 0	Pink 5	Cap 2	Pink 5
+23.9	2.00	+19.9	2.39	+18.7	2.52
^{2.4.3} +155.7	1.97	^{18.5} +163.5	2.79	^{17.4} +162.6	2.67
^{2.3.4} -156.6	2.05	^{19.4} -160.6	2.44	^{18.0} -162.0	2.60
	2		162		2.60
327	2.01	288	2.54	290	1.52
					1.08

32 Leonis Minoris			38 Leonis Minoris			31 Leonis Minoris		
Cap 0	Pink 5		Cap 0	Pink 5		Cap 0	Pink 5	
+13.9	3.52	3.16	+16.8	3.06	2.75	+31.5		1.44
^{14.7} +165.4	3.30	3.04	^{16.7} +163.3	3.08	2.76	^{33.6} +146.4		1.81
^{14.5} -165.5	3.42	3.07	^{13.6} -166.4	3.57	3.20	^{33.2} -146.8		1.33
	1.12	27		99	271			18
	3.40	3.09						
348			318	242	290	112		1.36
11			83			11		
			86					

Nov. 30th 1874

4 Hrsae Maj:		39 H Hrsae Maj:		364 Hrsae Maj:	
Cap 2	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
+15.6	2.42	+16.9	2.73	+20.3	2.34
^{2 0.4}		^{19.9}		^{19.4}	
+159.6	2.33	+160.1	2.39	+160.6	2.44
	<u>2.37</u>		<u>2.56</u>		<u>2.39</u>
264	1.52	287		266	
	<u>0.85</u>	100			

0 Rensei		8 Persei		F 431	
Cap 0	Pink 5	Cap 2	Pink 5	Cap 0	Pink 5
+33.5	1.32	+21.3	2.24	+18.7	2.82
^{3 0.6}		^{22.3}		^{2 0.0}	2.52
+149.4	1.49 (42)	+157.7	2.14	+160.0	2.65
	<u>1.40</u>		<u>2.19</u>		<u>2.37</u>
157		244	1.52	7	2.44
16		24	<u>0.67</u>	273	
				27	
				46	
	(altitude)				

Groups 1 + 21

South

149B Wma Maj:	149B North Wma Maj:	2 Persei
Cap 0 Pink 5	Cap 0 Pink 5	Cap 1 Pink 5
+114	3.59 + 8.9	4.13 + 27.0
+1.3	10.7	24.7
+168.7	3.64 + 169.3	3.73 + 155.3
	3.60	3.93
	237	200
	84	1.84
		36
		1.48

γ	0.67 - 0.74	ψ	0.85 - 1.92
τ	1.06 - 0.35	36H	2.39 - .38
ϵ	1.48 + 0.07	39H	2.36 - .21
δ	1.40 - 0.01	-	[0.53]

T Persei

Cap 0	Pink 5	Cap	F431	2.4H	+1.03	149B	3.60	+1.83
+38.2	1.06	7.0/8	1.41	3.93	+1.16	13.33		
38.1						53		
+141.9	1.07					13.86		
	1.06					2.77		

1.19
13

$$1 - \text{xxl} = -1.36$$

Note

The presence of clouds is suspected.

Nov. 30th 1874

0 Ursae Maj.		Camp 0		31 Ursae Maj.	
Cap 1	Pinch 5	Cap 0	Pinch 5	Cap 0	Pinch 5
+50.5	0.57	+32.5	1.37	+16.8	2.75
^{41.7} +138.3	0.90	^{29.9} +150.1	1.54	^{22.3} +157.7	2.14
^{44.1} -135.9	0.80	^{27.1} -152.9	1.74	^{19.7} -160.3	2.41
-49.6	0.60	-31.3	1.45	-27.5	1.71
	<u>2.87</u>		<u>2.10</u>		<u>1.01</u>
	0.72		1.42		2.25
	36				
	<u>0.36</u>				

39 H Ursae Maj.		36 H Ursae Maj.		149 B south Urs. 7 Maj	
Cap 0	Pinch 5	Cap 0	Pinch 5	Cap 0	Pinch 5
+14.8	3.02	+19.1	2.76	2.47	3.61
^{17.0} +163.0	2.72	^{22.4} +157.6	2.38	^{2.3} +167.7	3.42
^{77.5} -162.5	2.66	^{18.8} -161.2	2.79	^{20.3} -169.7	3.84
-19.1	2.47	-24.0	2.22	1.99	3.51
	<u>2.87</u>		<u>2.18</u>	0	<u>2.37</u>
	2.72		54	2.25	3.59

302

250

399

Groups 19 and 21

Pix 169

Cap 0

+238
^{23.3}
 +156.7
^{2.4}
 -155.9
 -23.9

Pink 5

2.01
 2.05
 1.98
 2.00
2.01
⁴

249
 20

22 H. Mrs. May. & Mrs. May.

Cap 0

+215
^{21.6}
 +158.4
^{2.0}
 +160.0
 -23.8

Pink 5

2.22
 2.21
 2.37
 2.01
2.20
¹

Cap 2

+23.7
^{24.0}
 +156.0
^{2.1}
 -158.8
 -27.1

Pink 5

2.02
 1.99
 2.25
 1.74
2.00
⁰
 1.52
 0.48

0 0.36 -1.36

ψ 0.48 -2.23

Pix 169 2.01 +0.31

36H 2.25 -1.46

22H 2.20 +0.50

35H 2.72 +0.1

149B with Mrs. May.

Cap 0 Pink 5

+8.9 4.60 4.13
^{1.0}
 +170.0 4.32 3.88
^{9.1}
 -170.9 4.55 4.08
 -10.5 4.20 3.77
167 3.816
 42 3.96

448
 44
 8

31H 2.25 +0.55

Cap [0.53]

Comp 0 1.42 -0.28

149Bs 3.59 +88
 149Bn 3.96 +1.25
13.00
 53
13.53
 2.71

XIX-XXI = -11.01

This 22H is n p of a triangle
 Perhaps not same as before
 observed which was the true

Nov. 30th 1874

W Urae Maj.	210B Urae Maj.	47 Urae Major
Capo	Capo	Capo
+29.2	+13.4	3.23 +24.8
+155.0	+167.6	3.41 +157.3
-152.4	-162.2	2.62 -154.2
-28.6	-15.3	2.95 -23.6
γ -0.04 -1.57		2.1
χ +0.71 -0.82		3.05
GSpr 3.28 +1.75		
3CV [0.65]		
3.95		
65		
4.60		
1.53		
3.40 +1.87		

59 Ursae Maj.	1 Ursae Maj.	1 Ursae Maj.
Cap 0	Cap 0	Cap 1
Pink 5	Pink 5	Pink 5
+17.7	2.64 + 51.5	+35.4
18.6	59 0.53	35 1.21
+161.4	2.53 + 180.0	+143.4
17.3	66 0.59	28 1.14
-162.7	2.68 - 130.2	-142.4
11 1.00	66 0.60	11 1.00
-18.2	2.58 - 46.5	-32.7
56 1.95 - 56	79 0.71	52 1.36
47 1.97 - 54	30 3	124 71
49 2.24 - 27	67 0.61	131 1.18
57 [-11]	0.82	67 1.18
59 2.61 + 10	0.71	64 36
54 [35]		0.82
58 2.96 + 45		
208 3.05 + 54		
14.78		
	xxii - xxiii = + .98	

$$XXII - XXIII = +.98$$

Groups 22 and 23

49 Ursa Maj.	56 Ursa Maj.	58 Ursa Maj.
Cap 0 Pink 5	Cap 0 Pink 5	Cap 0 Pink 5
21.5	2.22 + 24.1	1.98 + 15.0
^{18.9}	^{23.1}	^{13.9}
+161.1	2.49 + 15.6	2.07 + 15.9
^{21.7}	^{27.7}	^{16.9}
-158.3	2.120 - 152.3	1.69 - 168.1
-23.5	2.04 - 23.2	2.06 - 15.6
	<u>9.5</u>	<u>3.80</u>
	2.24	1.95
249	217	328

(2833)

65 Ursa Maj.	Between 2 & 3	Ursa Maj.
Cap 0 Pink 5	Cap 0 Pink 5	Cap 2 Pink 5
+12.7	3.85 + 13.3	3.25 + 32.2
^{11.4}	^{0.3}	^{4.5}
+168.6	3.59 + 169.7	3.81 + 150.6
^{13.7}	^{12.4}	^{3.1.8}
-166.3	3.19 - 167.6	3.41 - 148.2
-12.6	3.37 - 12.0	3.48 - 30.1
<u>3.38</u>	<u>1.95</u>	<u>1.93</u>
65 Ursa Maj. is double	3.40	1.48
not	164	1.52
	16	<u>1.04</u>
	48	

Cap 1 was kept in by accident since
Lambert Ursa Maj. Cap 1 on 2nd round.

Friday, Dec. 4th 1874

C Persei				μ Persei				δ Persei			
Cap	Pink	5		Cap	Pink	5		Cap	Pink	5	
+30.9	+11	1.47		+27.1	25	1.74		+25.3	9	1.88	
+145.7	-9	1.27		+147.4	12	1.37		+151.7	14	1.65	
-144.6	15	1.21		-149.2	1	1.48		-156.8	27	2.06	
-30.3	15	1.51		-32.8	13	1.36		-29.2	20	1.59	
c 1.00 -58	50	1.46		Q 0.49 -1.23	51	1.95		70	3.18		
m 1.13 -45		1.36		e 1.15 -1.57		1.49			1.79		
b 1.51 -07		30		f 1.51 -1.21		36					
d 1.79 +21		1.00		sg 2.38 +1.66		1.13					
FS 2.49 +91				m 3.06 +1.24							
2.92				8.59							
1.58				1.72							
stb 2.44 +86											

vii - viii = -14

E Persei				f Persei				e Persei			
Cap	Pink	5		Cap	Pink	5		Cap	Pink	5	
+25.4	4	1.87		+27.9	18	1.68		+37.4	2	1.10	
+146.4	203	1.31		+146.9	17	1.34		+139.8	11	0.97	
-156.8	23	2.06		-149.9	2	1.53		-145.3	17	1.25	
-22.8	27	2.10		-30.7	2	1.49		-39.5	8	1.00	
203	106	3.06		334	39	2.04		38	3.2		
23	203	2.03		83	10	1.51		48	1.08		
7	203	1.52						56	1.23		
		0.49						54	1.15		

Note reddish
f is ~~ready~~

Note Wind blows lamp a little

Groups 7 and 8

e Persei	m Persei	59 Persei
Capo	Punta	Capo Punta
+29.3	1 1.58	+15.7 3.22 17 2.89 +19.9 1 2.39
+148.7	14 1.45	+15.7 3.22 17 2.89 +159.6 5 2.33
-153.8	22 1.81	-167.3 3.74 29 3.35 -160.8 8 2.46
-29.9	5 1.54	-14.1 3.48 7 3.13 -20.2 3 2.35
1.08	42 2.38	16670 2.6
1.59	1.59	3.41 70 3.06
0.57	36	342
178	1.23	260
18		27
		17 1.53
		2.38

Note

m is a double *: northern component observed.

7

Monday Dec. 24th

e Persei		f Persei		e Persei	
Cap 2	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
+32.3	1.39	+28.9	1.61	+42.4	0.87
+29.0	1.60	+28.9	1.61	+39.5	1.00
	<u>1.49</u>		<u>1.61</u>		<u>0.93</u>
167	1.52	179		104	1.32
17	<u>- 0.03</u>				<u>1.12</u>

233 B. Persei.		235 B Persei		P. IV 184	
Cap 0	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
+19.2	2.46	+18.0	2.50	+20.3	2.34
+18.4	2.55	+14.2	3.11	+18.0	2.60
	<u>2.50</u>		<u>2.85</u>		<u>2.47</u>
		318			
		32			
		<u>86</u>			
				275	
				28	
				<u>28</u>	

Groups 8 and 9

e Persei	m Persei	59 Persei
Capo 1	Capo 0	Capo 0
Pink 5	Pink 5	Pink 5
+30.9	+16.4	+20.4
60	3.16	2.84
+25.1	+12.5	+18.7
90	3.77	3.39
1.68	3.06	2.70
93	3.46	2.37
0.75	3.01	2.43
188	11	
19		

e	-0.03	-1.67
e	1.12	-0.52
f	1.61	-0.03
59	2.42	+0.78
m	3.06	+1.42
	8.18	
	1.64	

e Auriga	Heis	
Capo 2	Capo 0	Capo 0
Pink 2	Pink 5	Pink 5
+42.7	+16.5	2.79
0.96		2.88
+60.4	+16.8	2.83
0.34		
150		
65		
7		
0.56		
1.52		
-0.96		
2.14		
-3.10		

x	-3.10	-4.41
45B	2.83	+1.52
Pirish	2.47	+1.16
235B	2.50	+1.19
235B	2.85	+1.54
	6.55	
	1.31	

VIII - IX = +33

W.H.
m Persei is double. Northern component observed

Dec. 21st 1874.

~~ε Aurigae~~		ε Aurigae		18 B Aurigae	
Cap 2	Pink 5	Cap 2	Pink 5	Cap 0	Pink 5
+34.1	128	+18.8	1.23	251 + 11.8	351
+37.4	1110	+17.9	1.51	261 + 12.4	371
^{35.9} +144.1	1118	^{19.7} +160.3	1.23	^{12.3} 241 + 167.1	372
	<u>26</u>		<u>97</u>	<u>2.51</u>	<u>14</u>
183	1.19	189	1.32	1.52	3.45
13	36	251		0.99	
	0.83	1.32	2.79		
	0.95		28		
	0.91				

ζ Aurigae		η Aurigae		ε Aurigae	
Cap 2	Pink 5	Cap 2	Pink 5	Cap 0	Pink 5
+23.6	203	+25.5	1.87	+21.1	2.52
+17.6	265	+22.2	2.115	2.52	2.26
^{18.8} +161.2	2.51	+19.1	2.47	+20.9	2.54
	<u>1.19</u>	^{22.0} +158.0	2.17	^{20.9} +159.1	2.54
	2.40	0.76	19	2.54	2.28
1.17	1.52	2.06	2.06	2.53	2.27
2.40	0.88	1.30	1.52		
1.23			0.54		

Groups 10 and 12

14B Aurigae	J Aurigae	η Aurigae
Capo	Pink 5	Capo
+15.7	3.22	2.89 + 36.5
+18.5	2.83	1.15 + 43.4
+16.8	3.21	1.19 + 45.5
+16.2	2.26	1.17 + 46.6
	231	1.17
	2.77	36
	130	0.81
	13	0.88
		0.84
		0.83
		0.75
		0.71
		19
		0.76
		36
		0.40
		0.54
		0.47

Southwading 2	South foll. 2	2 Aurigae
Capo	Pink 5	Capo
+18.1	2.59 + 16.9	2.73 + 28.1
+17.0	2.72 + 16.8	2.75 + 25.9
+16.3	2.64 + 16.3	2.77 + 26.5
	2.65	2.75
	196	1.67
		1.83
		1.79
		1.76

β Aurigae		38 Aurigae		foll. 38 Aurigae	
Cap 2	Prin 5	Cap 0	Prin 5	Cap 0	Prin 5
+47.9	0.66	+13.9	3.52	+15.0	2.99
+39.9	0.98	+13.5	3.59	+16.4	2.80
^{46.0} +134.0	0.73	^{14.0} +166.0	3.50	^{15.4} +164.6	2.93
	23.7		3.17		2.81
	0.79				
	1.52				
	<u>-0.73</u>				

Cap	Prin	Cap	Prin	Cap	Prin
-----	------	-----	------	-----	------

Note.

38 Aurigae is the right angle of a triangle

Groups 10 and 12

 ψ^2 Aurigae ψ^3 Aurigae

Cap 0

Pink 5

Cap 0

Pink 5

Cap

Pink

$$\eta +27.2 \quad 1.93 \quad 1.7, 3 \quad +20.5 \quad 2.59 \quad 2.32$$

$$0 +25.8 \quad 2.10 \quad 1.88 \quad +19.0 \quad 2.48$$

$$3 +15.4.8 \quad 2.03 \quad 1.82 \quad +15.8.2 \quad 2.19$$

$$\begin{array}{r} 2.102 \\ 2.05 \\ 2.1 \\ \hline 1.81 \end{array} \quad \begin{array}{r} 2.60 \\ 2.6 \\ 34 \\ \hline 2.23 \end{array}$$

$$\eta \quad 0.47 \quad -1.52$$

$$\beta \quad -0.73 \quad -2.61$$

$$\xi \quad 0.84 \quad -1.15$$

$$\psi^2 \quad 1.81 \quad -0.07$$

$$\epsilon \quad 0.91 \quad -1.08$$

$$\psi^3 \quad 2.23 \quad +0.35$$

$$\lambda \quad 1.76 \quad -0.23$$

$$\mu 38 \quad 2.91 \quad +1.03$$

$$C 30 \quad 2.27 \quad +0.28$$

$$C 38 \quad 3.17 \quad +1.29$$

$$\mu 8 \quad 2.65 \quad +0.66$$

$$9.39$$

$$\mu 8 \quad 2.75 \quad +0.76$$

$$1.88$$

$$\mu 8 \quad 2.77 \quad +0.78$$

$$x - x_{II} = +0.11$$

$$\mu 8 \quad 3.45 \quad +1.46$$

$$\begin{array}{r} 9) 17.87 \\ \hline 1.99 \end{array}$$

Dec. 21st 1874

β Aurigae	38 Aurigae	North preceding 38
Capo	Pinh 5	Capo
+44.4	0.79 + 15.2	295 + 11.9
^{41.5} +138.5	^{14.3} 0.91 + 165.7	^{14.2} 3.10 + 165.8
	<u>0.85</u>	<u>3.03</u>
	<u>1.52</u>	<u>3.49</u>
	- 0.67	3.11
	337	3.30
		368

$\psi 4$ Aurigae	$\psi 5$ Aurigae	$\psi 7$ Aurigae
Capo	Pinh 5	Capo
+24.7	1.93 + 20.2	2.35 + 23.4
^{22.6} +157.4	^{21.2} 2.12 + 158.8	^{23.0} 2.25 + 157.0
	<u>2.02</u>	<u>2.30</u>
	2.08	2.05
	224	2.06
	256	229

Groups 12 and 14

toth foll. 88

 ψ^2 Aurigae ψ^3 Aurigae

Capo

Pink 5

Capo

Pink 5

Capo

Pink 5

$$\begin{array}{r}
 +12.7 \\
 15.12 \\
 +163.8 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3.35 + 24.2 \\
 2.83 + 15.2 \\
 \hline
 3.09
 \end{array}$$

$$\begin{array}{r}
 1.97 + 18.9 \\
 1.92 + 16.7 \\
 \hline
 1.94
 \end{array}$$

344

$$\begin{array}{r}
 217 \\
 -23 \\
 \hline
 194
 \end{array}$$

$$\begin{array}{r}
 \beta -0.67 -2.65 \\
 \psi^2 1.94 -0.04 \\
 \psi^3 2.47 +0.49 \\
 \psi^4 3.09 +1.11 \\
 \psi^5 3.03 +1.05 \\
 \hline
 9.86 \\
 1.98 +1.40 \\
 \hline
 3.38
 \end{array}$$

64 Aurigae

66 Aurigae

 ψ_4 2.02 - .29

Capo

Pink 5

Capo

Pink 5

 ψ_5 2.30 - .01

$$\begin{array}{r}
 +16.6 \\
 14.5 \\
 +165.5 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2.77 + 20.7 \\
 3.07 + 15.1 \\
 \hline
 2.92
 \end{array}$$

$$\begin{array}{r}
 2.30 \psi_7 2.06 - .25 \\
 2.16 66 2.23 - .08 \\
 2.23 64 2.92 + .61 \\
 \hline
 1.53 \\
 2.31
 \end{array}$$

$$\begin{array}{r}
 325 \\
 -31 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 248 \\
 -23 \\
 \hline
 225
 \end{array}$$

$$XII - XIV = -33$$

Dec. 21st 1874

43 BLynce's		8 H Lyncis		21 Lyncis	
Cap 0	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
+17.9	2.61	+22.7	2.11	+27.2	1.73
^{17.7} +162.3	2.64	^{24.0} +156.0	1.99	^{27.8} +152.2	1.59
	<u>2.62</u>		<u>2.05</u>		<u>1.71</u>
257 29		228		196 19	

South foll. last		Anonyma		25 Lyncis	
Cap. 0	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
+15.8	2.88	+16.8	2.75	+13.4	3.23
^{19.4} +160.6	2.44	^{18.5} +161.5	2.54	^{3.4} +166.6	3.23
	<u>2.66</u>		<u>2.64</u>		<u>3.23</u>
29				36 36 0	

Note

25 Lyncis is south of 26 L.

Groups 15 and 17

22 Lyncis

P.VII 9.2

P.VII 156

Cap 0

Pm 5

Cap 0

Pm 5

Cap 0

Pm 5.

$$\begin{array}{r} 3 + 17.4 \\ 2.2.0 \\ 9 + 158.0 \end{array}$$

$$\begin{array}{r} 2.67 + 15.6 \\ 17.1 \\ 2.1.7 + 162.9 \\ \hline 2.32 \end{array}$$

$$\begin{array}{r} 2.91 + 147.5 \\ 19.5 \\ 2.71 + 163.5 \\ \hline 2.81 \end{array}$$

$$\begin{array}{r} 3.04 \\ 3.97 \\ \hline 3.05 \end{array}$$

$$\begin{array}{r} 286 \\ 27 \\ \hline 43 \end{array}$$

42

$$\begin{array}{r} 313 \\ 31 \\ \hline 82 \end{array}$$

339

26 Lyncis

Ursae Maj.

K Ursae Maj.

Cap 0

Pm 5

Cap 2

Pm 5

Cap 2

Pm 5

$$\begin{array}{r} + 17.8 \\ 19.7 \\ + 160.3 \end{array}$$

$$\begin{array}{r} 2.62 + 21.8 \\ 25.9 \\ 2.41 + 154.1 \\ \hline 2.51 \end{array}$$

$$\begin{array}{r} 2.19 + 20.4 \\ 20.6 \\ 1.83 + 159.4 \\ \hline 2.01 \end{array}$$

$$\begin{array}{r} 2.33 \\ 2.31 \\ \hline 2.32 \end{array}$$

$$\begin{array}{r} 286 \\ 28 \end{array}$$

224

$$\begin{array}{r} 1.52 \\ \hline 0.49 \end{array}$$

258

$$\begin{array}{r} 1.52 \\ \hline 0.80 \end{array}$$

North of κ in a triangle South Preceding
with κ and ι

~~P. VII 202~~

P. IX. 19

C Capo

Pmk 5

Capo

Pmk 5

Capo

Pmk 5

+17.2
17.9
+16.2

2.70 +14.9
17.3
2.61 +162.7

2.65

295

3.01 +14.6
15.0
2.68 +165.0

2.84

335

3.05
2.99
3.02

317
27
83

21 1.71 -.82

ι

0.49 -1.56

84 2.05 -.58

κ

0.80 -1.25

Pmk 156 2.66 +43

34

2.57 +.46

26 2.51 -.02

Pmk 202

2.84 +.79

43B 2.62 +09

Heio 25

2.65 +60

(C) 2.64 Pmk +00

Cap. IX. 19

Pmk 3.02

+97

Pmk

- Pmk 92 2.81 +.18

12.31

2.05

- 25 3.23 +70

at Pmk 202

2.88 +83

20.23

35

2.24 +19

2.58

22 2.32 -.29

Pmk 156 3.05 +.52

XV - XVM π + 0.48

2.66
3.39

~~R. VII 202 is not in the heavens, although the~~

Groups and

P. VIII 202

Cap 0

Pm. 5

$$\begin{array}{r}
 +14.7 \\
 16.9 \\
 +168.1
 \end{array}$$

30.4

+18.4

2.78

+150.9

~~5.97~~~~2.91~~

2.88

$$\begin{array}{r}
 32.1 \\
 33 \\
 89
 \end{array}$$

34 Lyncis

Cap 0

Pm. 5

2.55

+21.0

2.47

+158.4

2.51

$$\begin{array}{r}
 180 \\
 26
 \end{array}$$

35 Lyncis

Cap 0

Pm. 5

2.27

2.21

2.24

249

Cap

Pm.

Cap

Pm.

Cap

Pm.

Note

35 Lyncis may have been mistaken for P. VIII 202.

note

These stars are somewhat hard to find, which may account for discrepancies in the observations.

Dec. 21st 1844

E Aurigae		~~3~~ Aurigae		21 Aurigae	
Cap 1	Pink 5	Cap 1	Pink 5	Cap 1	Pink 5
+32.2	1.39	+34.1	1.28	+45.7	0.74
34.0		35.2		44.8	
+146.0	1.29	+144.8	1.22	+135.2	0.77
31.5		32.7		22.2	
-148.1	1.41	+147.3	1.36	-137.8	0.88
	<u>1.36</u>		<u>26</u>		<u>0.80</u>
152)	36	144	1.29		36
10	<u>1.00</u>	14	36		<u>0.44</u>
39		30	0.93		

South preceding 9.		South foll. 9		L Aurigae	
Cap 0	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
+17.6	2.65	+14.8	3.02	+27.12	1.73
16.9		16.9		26.4	
+163.1	2.73	+163.1	2.73	+153.6	1.80
16.2		16.2		38.4	
-163.8	2.88	-162.9	2.71	-151.6	1.64
	<u>2.74</u>		<u>246</u>		<u>1.72</u>
			2.82		
3		315		192	
		32			
		33			

Groups 8 and 10

18 B Aurigae	14 B Aurigae	Q Aurigae
Capo	Pinh 5	Capo
+18.2	3.27	+20.0
14.6		2.65
+165.4	3.05	+15.7
13.2	+164.8	2.81
-166.8	3.27	-160.6
	3.20	2.72
		2.44
		2.73
		2.44
306	330	278
		17
		46

59 Persei	e Persei	m Persei
Capo	Pinh 5	Capo
+18.5	2.54	+13.7
20.1	+85.4	1.35
+159.9	2.38	1.21
19.4	+146.5	1.32
-160.6	2.44	+166.3
	2.45	1.29
		-167.1
		3.32
		3.23
273	1.36	360
	1.38	36
	1.24	
	1.36	
	1.4	
	2	

f Persei.

E Persei

Capo

Pm'h 5 Cap 2

Pm'h 5 Cap

Pm'h

+29.2

1.59

+21.2

2.51

2.25

C

0.58

-1.24

+151.6

1.64

+157.8

2.40

2.06

e

1.24

- .58

-159.7

1.51

-156.0

2.22

1.99

f

1.58

- .24

24

1.58

1.13

2.10

57

2.45

+ .63

176
18256
26
230

2.38

1.52

0.58

m

3.23

+1.41

9.08

1.82

VIII-X = -21

Cap

Pm'h

Cap

Pm'h Cap

Pm'h

vertical line

Groups 4

d						
Cap	0.44	Pinh	Cap	Pinh	Cap	Pinh
δ	0.93	-1.10				
ϵ	1.00	-1.03				
λ	1.72	-0.31				
θ	2.44	+0.41				
st θ	2.82	+0.79				
sp θ	2.74	+0.71				
14B	2.96	+0.93				
18B	3.20	+0.17				
	18.25					
Cap	2.03	Pinh	Cap	Pinh	Cap	Pinh

Sundays
Jan. 10th 1875

β Aurigae	π Aurigae	36 Aurigae
Cap 2	Cap 0	Cap 0
Pink 5	Pink 5	Pink 5
+49.6	+38.9	+16.8
0.60	1.03	3.06
+123.3	+140.6	2.95
0.40	1.01	2.85
0.50	1.02	
1.52		
-1.02		
	π 1.02 - 1.31	β -1.02 - 2.88
	0 2.26 - .07	ψ^2 1.92 + 0.06
	36 2.85 + .52	ψ^3 2.44 + 0.58
	Iv 250 2.92 + .59	+38 2.91 + 0.05
	41 2.58 + .25	38 [1.20]
	1.63	6.25
	2.33	1.20

$$x_I - x_{II} = +.47$$

7 th Aungmye		4 th Aungmye		4 th Aungmye	
Capo	Pinh 5	Capo	Pinh 5	Capo	Pinh 5
+29.4	1.57	+14.2	3.47	+14.5	3.07
29.5		13.5	3.11	13.2	
+150.5	1.57	+166.5	3.22	+166.8	3.27
	<u>1.57</u>		<u>3.16</u>		<u>3.17</u>
175		353		353	
18		35		3	
57		8			

note

ноя

* π is real

士

43 is considerably longer than 42

Group Hand 12

PV 280		0		41 Annjae	
Cap 0	Pink 5	Cap 0	Pink 5	Cap 0	Pink 5
15.1	2.98	+21.5	2.22	+17.9	2.51
15.9		2.6.7		18.3	
+154.1	2.87	+159.3	2.30	+161.7	2.56
	<u>2.92</u>		<u>2.26</u>		<u>2.58</u>
325		252		288	
+23		25		29	
<u>92</u>		<u>27</u>		<u>57</u>	

38 Annjae		V ² Annjae		V ³ Annjae	
Cap 0	Pink 3	Cap 0	Pink 5	Cap 0	Pink 5
+14.4	3.08	+24.7	2.15	+19.3	2.45
16.7		26.8		19.5	
+163.3	2.76	+153.2	1.96	+160.5	2.43
	<u>2.91</u>	2.105	<u>1.92</u>		<u>2.44</u>
325		228		271	
+33		23			
<u>92</u>		<u>206</u>			

Note: 38 is the foll one for right L triangle.

note.
+ PV 280 is the foll. of two

Jan. 10th 1875

42 Aurigae	43 Aurigae	44 Aurigae	45 Aurigae	46 Aurigae	47 Aurigae
Capo	Prin 5	Capo	Prin 5	Capo	Prin 5
+13.1	3.29	+12.6	3.37	+27.7	1.69
+13.2		+13.0		+20.3	
+156.8	3.27	+157.0	3.30	+149.7	1.51
8.7		12.4		30.9	
-171.3	4.18	-167.6	3.41	-149.1	1.47
	<u>1.74</u>				<u>1.56</u>
	3.58				

389

374
37
37174
17
17

44	45	46	47
Capo	Prin 5	Capo	Prin 5
+126.1	1.82	+21.8	2.19
28.3		2.37	
+153.7	1.80	+150.3	2.02
27.1		20.6	
-152.9	1.74	-159.4	2.31
	<u>2.6</u>		<u>5.2</u>
	1.79		2.17

199

242
24
1.8

201

Group 13 and 14

45 Aurigae

49

Cap 0

Pm 5

Cap 0

$$\begin{array}{r}
 +22.0 \\
 23.7 \\
 +156.3 \\
 23.4 \\
 -155.6 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2.17 \\
 2.02 \\
 2.05 \\
 \hline
 2.08
 \end{array}$$

$$\begin{array}{r}
 +17.0 \\
 19.4 \\
 +160.6 \\
 16.7 \\
 -153.3 \\
 \hline
 \end{array}$$

294

$$\begin{array}{r}
 232 \\
 23 \\
 \hline
 255
 \end{array}$$

410

Pm 5

Cap 0

Pm 5

$$\begin{array}{r}
 2.72 + 29.5 \\
 22.4 \\
 2.44 + 157.6 \\
 25.5 \\
 2.76 - 154.5 \\
 \hline
 19.2 \\
 2.64
 \end{array}$$

207

$$\begin{array}{r}
 1.57 \\
 2.43 \\
 1.87 \\
 \hline
 2.57 \\
 1.86
 \end{array}$$

64 Aurigae

66 Aurigae

Cap 0

Pm 5

Cap 0

$$\begin{array}{r}
 +15.8 \\
 18.7 \\
 +163.3 \\
 18.5 \\
 -163.5 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2.75 + 21.0 \\
 2.76 + 158.0 \\
 2.79 - 158.3 \\
 \hline
 2.77
 \end{array}$$

308
31

Pm 5

Cap 0

Pm 5

$$\begin{array}{r}
 2.27 \\
 2.17 \\
 2.20 \\
 \hline
 2.21
 \end{array}$$

246

$$\begin{array}{r}
 15.08 \\
 40 \\
 915.48 \\
 \hline
 2.58 \\
 4.179 - 36 \\
 4.217 + 02 \\
 4.181 - 34 \\
 6.621 + 06 \\
 6.4277 + 62 \\
 \hline
 7.75 \\
 2.15
 \end{array}$$

Note

49 is the middle one of three -

$$XIII - XIV = +0.43$$

Jan. 10th 1875

Mrsae Maj.		~~Mrsae Maj.~~		~~Mrsae Maj.~~	
Cap 2	Pmh 5	Cap 2	Pmh 5	Cap 2	Pmh 5
+37.7	1.09	+48.6	0.64	+13.7	3.85 1.55 3.19
^{27.8} +152.2	1.69	^{25.0 45.0 85} +155.0	0.77 1.91	^{18.6} +151.4	2.32 1.76 2.53
^{40.2} -139.8	0.97	^{39.8} -140.2	0.99	^{18.9} -151.1	1.78 1.50 2.49
	75		2.40	2.74	3.05 2.21
139	1.25	131	1.18 0.80	0.80	1.60 2.74
	1.52	-13	1.22	1.94	3.05 1.52
	-0.27	118	1.01		31 1.22
					74

47 Mrs. Maj.		49 Mrs. Maj.		56 Mrs. Maj.	
Cap 0	Pmh 5	Cap 0	Pmh 5	Cap 0	Pmh 5
+20.0	2.37	+21.1	2.26	+20.8	2.29
^{22.0} +158.0	2.17	^{20.8} +159.7	2.34	^{21.1} +158.9	2.26
^{20.0} -160.0	2.37	^{17.4} -162.1	2.61	^{21.4} -158.6	2.23
	9.1		1.21		
256	2.30	268	2.40	252	1.26
		27		25	
X		X		X	

note
Extreme cold interferes with the accuracy of the observations.

Groups 22 and 23

55 Mrs. May:		3 Cannon Fenaticum		210 B	
Capo	Pinch 5	Capo	Pinch 5	Capo	Pinch 5
+10.7	3.73	+14.5	3.07	+12.5	3.39
^{17.3} +168.7	3.51	^{17.2} +152.8	2.70	^{12.6} +167.4	3.37
^{11.1} -168.9	3.55	^{18.9} -151.1	2.49	^{11.0} -169.0	3.57
	<u>19</u>		<u>226</u>		<u>143</u>
	3.66		2.75		3.48
		307		387	
				~~37~~	
				~~18X~~	

58 Mrs. May:		59 Mrs. May:		57 Mrs. May:	
Capo	Pinch 5	Capo	Pinch 5	Capo	Pinch 5
+11.0	3.67	+15.6	2.91	+16.0	2.85
^{13.7} +166.3	3.84	^{17.5} +152.5	2.66	^{18.2} +151.8	2.58
^{11.3} -168.7	3.61	^{17.8} -152.2	2.62	^{19.0} -151.0	2.48
	<u>144</u>		<u>219</u>		<u>191</u>
	3.49		2.73		2.64
		304		291	
		~~30~~			
		X		X	

Note
* 210 B is the Northernmost of two

Cap	Prin	Cap	Prin	Cap	Prin
-----	------	-----	------	-----	------

56	2.26	- .55	γ	-0.27	-2.06
----	------	-------	----------	-------	-------

47	2.30	- .50	χ	1.01	-0.78
----	------	-------	--------	------	-------

49	2.40	- .48	65pr	3.66	+1.87
----	------	-------	------	------	-------

57	2.64	+ .47	173	2.75	+ .96
----	------	-------	-----	------	-------

59	2.73	+ .88			
----	------	-------	--	--	--

54		[0.39]			
----	--	--------	--	--	--

58	3.49	+ .68			
----	------	-------	--	--	--

210B	3.48	+ .85			
------	------	-------	--	--	--

19.30
39

Cap	19.62	Prin
	2.81	

Cap	Prin	Cap	Prin
-----	------	-----	------

174

XXII - XXIII = +1.02

Group and

Cap	Pink	Cap	Pink	Cap	Pink
-----	------	-----	------	-----	------

Cap	Pink	Cap	Pink	Cap	Pink
-----	------	-----	------	-----	------

Thursday Jan. 14, 1875

ψ Mrs. Maj.

~~42 Aug 1874~~

Cap 2

Pink 5

$$\begin{array}{r}
 +314 \\
 -12 \\
 144 \\
 +130.0 \\
 +23 \\
 0.59 \\
 +05 \\
 \hline
 203
 \end{array}$$

$$\begin{array}{r}
 113 \\
 11 \\
 \hline
 102
 \end{array}$$

$$\begin{array}{r}
 203 \\
 101 \\
 \hline
 102
 \end{array}$$

Cap 0

$$\begin{array}{r}
 +18.7 \\
 19.1 \\
 +160.9
 \end{array}$$

Pink 5

$$\begin{array}{r}
 2.52 + 20.0 \\
 2.47 + 20.8 \\
 \hline
 2.49 + 159.2 \\
 2.49
 \end{array}$$

36 H Mrs. Maj.

Cap 0

Pink 5

$$\begin{array}{r}
 2.37 \\
 2.29 \\
 \hline
 2.33
 \end{array}$$

260

* Taken with Cap 1

τ Persei

F 431

Cap 1

+ Lamp blown out here.

$$\begin{array}{r}
 +34.3 \\
 33.3 \\
 +146.7
 \end{array}$$

$$\begin{array}{r}
 144 \\
 14 \\
 \hline
 158
 \end{array}$$

Pink 5

Cap 1

$$\begin{array}{r}
 1.27 + 20.7 \\
 1.32 + 18.7 \\
 \hline
 1.30 + 151.3 \\
 1.30 \\
 36 \\
 \hline
 94
 \end{array}$$

Pink 5

Cap 1

Pink 5

$$\begin{array}{r}
 2.30 + 30.3 \\
 2.52 + 27.7 \\
 \hline
 2.42 + 152.3 \\
 2.42 \\
 36 \\
 \hline
 2.06
 \end{array}$$

$$\begin{array}{r}
 178 \\
 18 \\
 \hline
 61
 \end{array}$$

$$\begin{array}{r}
 1.51 \\
 1.59 \\
 \hline
 1.60 \\
 36 \\
 \hline
 1.24
 \end{array}$$

† Lamp very much blown by the wind.

39 Mrs. Maj. is the Northern one of two

Groups Band 2A

149 B South Mrs. May	149 B North	149 B North	149 B North	149 B North	149 B North
Cap 0	Prin 5	Cap 0	Prin 5	Cap 1	Prin 5
+11.7	3.94	3.53	+9.9	3.90	+26.0
+11.4	4.00	3.59	+10.6	3.75	+26.2
+168.6		+169.4		+153.8	
		3.56		3.82	
			426		201
			43		
			83		
					1.81
					1.81
					36

350
39
57

γ	+0.16	-1.01	ψ	05	-1.45
τ	94	- .21	364	2.33	- 23
ι	1.45	+ .28	394	2.49	- 07
δ	1.24	+ 07	-		[53]

γ Persei	F431	2.06	+ .89	14905	3.56	+1.00
Cap 2	Prin 5	Cap	8.5	Prin	Cap 1	3.82
+30.5	-02	1.50	1.17	14905	3.82	+1.26
* 46.9	34	0.70				
+133.1						
	+16	2.80				
		110				
	122					
	12					
	110					

12.25
53
12.78
2.56

$$1 - \lambda \times 1 = -1.39$$

* Taken with cap 1

20
2
20
11
8
5
0
11
20
32
1
2
12) 132
~~8~~
11
3
14

Cygni
Cassiopeae
Boötæ

