1874phae.proj.13802

KG
11366
v.376

General Catalogue
Circle Readings Explanatory Remarks

B 1 & B 2
1871-2

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Observations of Comets in 1871

1871

Star	Date	Strata	Rev. A. C.	Rev. A. C.
a Corvi	Apr 26			
12 1 48	29	20 1	44.0 50.2	20 0 41.0 48.1
−23 08	May 1	20		20 0 46.0 53.2
66 28				
+2				
66 49	May 16	20 1	35.1 44.6	2 [illegible] 60.2
21	May 25	20 0	9.3 18.5	20 0 [illegible] 16.4
	29	20 0	12.3 19.6	20 1 43 11.6
ε Corvi				
12 33 2	Apr 29	15 0	30.2 36.9	10 4 27.2 32.0
−21 54	May 1	15 0	21.2 28.6	4 27.2 36.0
64 17				
−2				
64 15	2	15 0	17.7 26.1	4 28.0 38.0
	25	10 3	56.0 6.4	4 46.4 55.2
	29	10 4	26.8 34.5	5 fell 1st wire bad
4 N Draconis	Apr 26 1871	0 3	26.8 22.1	0 5.2 [illegible]
12 6 10	Apr 29	0 3	21.7 16.3	0 3 6.0 1.4
+78 19		but first 2 wires		
324 04	May 2	Tuesday		0 3 25
+1				0 2 54.2
324 05	May 16	0 3	17.3 13.1	
	29	0 2	11.8 7.3	0 2 53.8 50.7

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1871

γ Corvi							
12 9 01	Apr 29?	10	1	3.6	10.3	0	23.0 23.3
−16 48	May 1	10	1	4.3	11.2	0	13.2 20.0
59 11 −2	2	10	1	3.9	10.0	0	8.8 17.6
59 09	16 (2?)	10	0	42.5	47.3	0	59.4 65.6
	25	5	4	37.4	48.8	10	0 33.2 43.8
ζ Virginis	Apr 26	15	4	18.0	26.0	4	32.3 39.4
12 13 21	Apr 29	15	4	22.4	30.7	3	24.5 32.0
+0 03	Apr 30	15	4	7.1	16.2	15 3	27.6 35.8
42 20	May 1	15	4	15.0	21.8	3	27.3 34.5
	2 Rej Tw	15	4	10.9 18.0		15 10.3	42 1.35
12 Comae	Apr 26	45	3	28.4	32.6	3	- - - -
12 16 09	Apr 29	45	4	3.0	4.7	3	25.2 27.1
+26 34						lost last two	
1.5 49	Apr 30	45	4	6.3	8.1	3	35.5 36.1
	May 1	45	4	2.9	6.3	3	15.6 17.9
	2	45	4	0.6	4.9	3	15.9 20.6

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13 P Comae								
12 17 53	Mar 26	30	3	53.2	30.3	3	17.0	20.3
+26 51 23								
15 32	May 16	~~40~~ 30	~~3~~ 3	~~42.6~~ 50.8	~~48.8~~ 53.4	~~3~~ 3	~~53.8~~ 5.8	~~55.5~~ 9.0
	25	30	2	24.0	30.0	3	16.8	22.5
	24	30	2	24.2	28.8	3	12.1	16.9
γ Comae								
12 20 34	Mar 26	20	3	33.8	36.3	3	3.8	5.7
29 01	April 30	20	3	42.6	48.8	~~3~~	53.8	55.5
1 3 22	May 1	20	3	47.1	50.0	2	57.4	61.1
	2	20	3	41.0	44.5	20	2 45.5	49.9
	May 16	20	3	26.9	24.2	2	40.9	43.5
S Comae								
12 23 15	Mar 26	5	4	21.7	30.4	3	47.1	56.1
−15 48	Apr 30	5	4	35.1	43.8	3	42.4	51.3
58 19						8 1.5	2m	Lata
−2	May 1	5	4	28.3	37.5	3	36.2	48.1
58 09	2	5	4	22.4	33.0	3	36.4	45.6
	May 16	5	4	25.7	33.3	3	44.1	52.5

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1871

h Coronae								
12 25 29	Thu 26	50	0	27.4	35.8	4	42.3	50.4
−15 29	April 29	50	0	33.0	40.2	45 4	34.1	43.9
57 50 −2	April 30	50	0	37.3	45.7	45 4	34.9	43.9
57 58	May 1	50	0	33.2	42.8	45 4	45.1	53.0
	2	50	0	18.2	25.1	45 4	38.0	48.3
β Coronae	Thu 26	0	2	1.6	9.0	1	16.9	24.8
12 27 39	April 30							
−22 49								
65 04 −2	May 1	0	1	6.9	15.5	0 1	29.9	35.3
65 02	2	0	2	5.8	14.6	1	30.0	38.6
	May 29	0	0	43.1	51.7	1	32.8	40.8
x Draconis								
12 28 01	May 10	50	3	20.4	15.0	2	39.0	32.4
+70 38	11	50	3	4.5	57.2	2	35.8	30.2
331 58 +1	16	50	3	15.0	9.1	2	40.0	35.0
331 54	May 20	50	1	56.5	50.0	2	41.1	8.0

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1871

δ Virginis 12 30 11 −5 08 47 28 47 29	Apr 26	25	4	15.3	23.2	3	32.0	29.3
	Apr 30	25	4	41.3	13.2	3	20.2	29.3
	May 1	25	4	21.2	29.6	3	32.6	42.3
	May 16					25	3 29.0	36.9
	29	25	2	52.3	61.1	25	3 22.8	32.2
× Virginis 12 32 38 −7 15 49 48 49 39	Apr 26	35	4	6.7	14.8	8	20.2	27.7
	Apr 30	35	4	40	12.1	3	24.8	31.7
	May 1	35	4	16.5	24.5	3	16.1	23.0
	2	35	4	4.6	13.8	3	28.4	3 20
	25	30	2	37.0	49.0	3	23.2	33.0
δ Virginis 12 35 11 −0 48 43 08 43 07	Apr 26	5	1	43.7	52.1	0	56.0	6 2.3
	Apr 30	5	1	41.2	47.8	0	51.1	58.1
	May 1	5	1	39.4	36.8	0	54.9	62.1
				δ both AR 0:1 dif				
	May 2	5	1	46.0	53.0	0	41.2	51.6
				both δ's				
	10	5	1	33.5	43.0	0	45.0	51.8

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1871

Red*

B.A.C. 4287
12 39 09
+46 09
356 14

May 1	10	4	19.9	19.2	3	35.8	35.2	
2	10	4	16.2	16.8	3	43.3	44.7	
						Nov 3rd run		
9	10	4	22.2	20.4	3	29.2	26.7	
10	10	4	8.0	8.0	3	31.3	31.6	
			δ and h together					
May 16			δ fell out of C.δ		10	3	34.4	34.6

85 Virginis
12 41 20
+4 17
4 18
38 05

May 1	5	0	46.4	54.1	0	4	56.6	63.1
2	5	0	46.5	53.6	0	4	58.2	64.5
			Low Hum					
9	5	0	45.9	50.4	0	4	56.1	2.2
10	5	0	28.3	36.9	0	4	40.9	53.6
11	5	0	35.2	41.7	0	4	50.3	56.3

31 Comae
12 45 27
+28 15
14 08

May 1			Quet 1st 4 wires		δ for 5	2	21.9	25.3
2	5	3	14.1	20.0	2	11.9	16.0	
9	5	3	11.2	13.8	2	20.6	22.3	
10	5	3	10.6	13.8	2	19.8	23.6	
11	5	3	2.6	4.9	2	26.1	29.2	

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1871

E Ursae Majoris
12 48 24
+56 39
345 44

May 1	40	3	42.3	41.2	2	51.2	51.1	
2	40	3	38.0	39.1	40	2	49.2	48.9
9	40	3	36.9	35.8		2	53.8	51.4
10	40	3	29.1	29.4	2	36.7	36.9	
11	40	3	29.7	27.8	2	44.3	42.7	

12 Can. Ven.
12 49 04
+39 01
3 22

May 1	20	2	2.3	2.2	1	11.3	11.0
2	20	1	57.0	56.6	1	21.0	23.1
9	20	2	0.8	54.3	1	18.9	16.4
10	20	1	52.1	50.8	1	2.5	7.4
11	20	1	58.2	57.0	1	6.8	5.0

36 Comae
12 52 36
+18 06
24 17

May 1	15	1	21.2	24.9	0	30.0	34.6
2	15	1	21.0	27.5	0	26.8	32.9
9	15	1	14.7	17.8	0	30.8	33.7
10	15	1	11.4	16.2	0	24.9	29.0
11	15	1	16.3	19.5	0	39.4	41.8

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1877

ε Virginis	May 1	40	3	24.0	28,8	2 26.2	30.4
12 53 49	2	40	3	25.1	30,2	2 31.3	38,
+11 39 +1	9	40	3	21.7	24.5	2 29.5	32.2
11 40	10	40	3	16,3	23,5	2 23.8	29.7
30 43	11	40	3	13.1	16.3	2 23.2	28.2
				break before last δ			
14 Can. Ven.	May 1	50	3	41.4	43.6	2 39.0	41.2
12 59 46		50	3	34,0	39,2	2 41.2	44.5
+36 29 23	9	50	3	32.9	35.6	2 43.2	44.2
5 54	10	50 50	3	26,5	29,0	2 41.1	45,0
	11	50	3	26.7	27.1	2 44.0	44.7
ο Virginis	May 9	10	3	3.9	9,8	2 10.8	16.5
13 03 19	10	10	3	1,5	10.6	10 1 58,0	25.0
−4 57 +1	11	10	2	54.4	65.7	2 10.3	17.3
4 50 23	14	10	2	35.4	63,8	2 56.8	66.0
37 33				Fb often h			
	June 6	10	2	53.9	5.0	2 57,1	8,2

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1871

43 Comae								
13 6 55	May 9	50	0	52.3	53.1	45 4	57 3	59.4
+28 32	10	50	0	57.4	53.0	45 6.4	58.8	
13 51	11	50	0	47.9	48.8	0	0.2	1.9
	14	50	0	42.9	46.8	45 4	53.6	59.1
	June 6	45	4	42.2	49.7	50 0	23.0	29.3
44 43 B.D.	May 9	30	2	43.9	41.0	2	4.0	2.3
13 7 55	10	30	2	45.3	46.8	1	54.0	55.2
+40 50	11	30	2	41.9	40.8	1	57.3	55.3
1 33	14	30	2	39.3	40.6	30 1	48.1	49.0
	June 6	30	1	37.6	43.2	- 2	19.4	23.2
Polaris	May 10 mid	~~0~~	~~0~~	~~45.1~~	~~38.0~~	0 1	2.1	04.7
13 10	May 9	0	0	54.9	45.2	0 1	0.2	51.0
+91 23	11	0	0	48.5	39.2	0 0	~~57.8~~	47.3
91 22				break after 5				
36 01	14	0	0	46.4	39.6			

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1871phae.proj.13866

1871

II

63 Virginis								
13 16 09	May 9	25	0	4.3	10.3	20 4	7.2	12.1
−17 04	10	25	0	−6.2	0.6	20 3	58.4	9.6
+2	11	25	0	59.3	65.3	20 3	58.4	60.3
−17 02	14	20	4	50.7	62.8	4	1.5	−10.5
59 25	June 6	20	4	1.2	11.8	20 4	42.0	54.0
α Virginis								
13 18 27	May 9	50	1	5.7	10.1	0	21.9	26.3
−10 29	11	50	1	2.7	8.1	45 4	52.8	56.7
+1	June 6	50	0	3.4	12.7	0	41.2	52.3
−10 28								
52 51								
								?
~~3 Virginis~~ Ins Maj p.								
13 18 44	May 10	45	2	13.4	13.7	1	21.7	21.8
+55 36				Rej L				
346 47	14	45	2	8.6	8.5	45 1	20.1	22.3
	June 12	40	4	36.8	41.7	45 0	41.1	44.2
	June 14	40	4	35.4	40.8			

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1871

70 Virginis	May 9	50	4	21.1	23.8	3	35.2	38.7
13 22 11	10	50	4	23.4	27.2	3	27.1	32.5
+14 28 +1	14	50	4	18.0	23.8	3	31.6	38.2
+14 29				cont'd				
27 54	June 1	50	2	14.6	19.8	3	6.4	13.0
	6	50	3	20.0	28.6	4	4.0	13.2
B.A.C. 4513 fgr	May 10	25	3	25.1	29.0	2	36.9	40.6
13 24 47	11	25	3	30.0	32.8	2	44.3	46.2
+24 54	14	25	3	25.8	31.3	2	36.1	41.8
17 29	June 1	25	1	33.3	38.9	2	19.3	24.6
	" 6	25	2	26.1	34.1	2	5 3	8.2 15.3
ε Virginis	May 9	15	3	13.5	20.1	2	26.0	32.4
13 28 09	10	15	3	19.2	27.1	2	24.0	31.7
+0 04 +1	14	15				2	26.0	35.0
+0 05		cont'd						
42 18	June 1	15	1	5.8	13.3	2	1.2	10.0
	6	15	2	15.3	17.1	3	4.0	14.9

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1871

25 Can Ven. 13 31 46 +36 54 5 26	May 9	25	0	51.4	53.2	0	8.0	9.7
	10	25	0	47.0	50.2	20	4 45.1	47.0
				Rej Tm				
	11	25	0	47.7	47.8	20	4 60.2	61.7
	14	25	0	36.9	40.4	20	4 53.2	56.5
	June 6	20	4	41.8	48.3	25	0 23.6	30.0
m Virginis 13 34 53 −8 03 +1 −8 02 +50 25	May 9	20	4	61.3	67.5	4	14.7	20.8
				Reject (st)				
	11	25	0	6.2	11.7	20 4	8.2	13.8
	14	20	4	5-23	60.6	4	4.3	14.9
	June 1	20	2	58.5	57.7	3	49.8	0.0
	6	20	3	56.4	7.7	4	43.9	5-5.5
83 Virginis 13 37 35 −15 32 +2 −15 30 +57 53	May 9	50	3	12.6	20.3	2	21.2	27.9
	11	50	3	18.0	25.5	2	30.2	37.9
	14	50	3	12.0	22.1	2	8.0	19.0
	June 1	50	1	15.9	26.8	2	~~36.6~~ 5.2	16.7
	6	50	2	16.2	28.6	3	1.6	13.9

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1871

87 Virginis 13 40 26 −17 13 +2 −17 11 58 34	May 9	30	4	11.5	18.3	3	26.6	34.2
	14	30	4	8.2	17.5	3	19.0	28.9
	June 1	30	2	1.7	10.9	3	3.2	14.6
	6	30	3	15.4	27.2	4	−0.7	+12.2
	June 14	25	4	43.0	54.4			
h Ins May. 13 42 32 +49 57 353 26	May 9	25	1?	45.8	43.6	20	4 58.4	56.3
	14	25	0	27.1	27.1		4 48.2	50.3
			June					
	June 12	20	2	69.4	63.2	20	4+2.7	5.8
	June 14	20	3	4.9	7.4	4	9.0	12.6
	June 17	20	3	7.3	9.9	4	4.9	8.7
h Centauri 13 45 49 −31 17 43 −31 14 73 37	May 9	35	2	15.9	25.8	1	24.8	32.9
	14	35	2	10.7	22.8	1	9.9	21.1
	June 6	35	1	15.2	31.8	2	2.3	17.1
	June 12	30	4	55.8	68.3	35	1 5.8	20.0
	June 14	80	4	67.5	64.8	35	0 51.3	63.8

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1871

R Bootis
13 48 29
+ 49 57 + 19 13
42 23 42 23
352 26 23 20

1871 June 17	15	2	22.4	30.1	3	30.3	38.4
21	20	0	−3.6	+5.1	1	47.7	55.4
June 25	20	0	35.6	40.3	δ fell		
26	20	0	−1.0	+6.2	0	48.4	55.0
29	15	4	56.4	62.2			

9 Bootis
13 50 41
+ 28 07
42 23
14 16

June 14	10	2	41.4	48.9	3	46.2	53.7
17	10	2	46.8	53.4	10	3 43.0	49.5
	15						
21	15	0	12.8	19.9	* 1	7.2	13.9
June 25	15	0	36.0	41.2			
26	15	0	21.4	26.5	1	1.5	7.3

50 Cas Lc.
13 52 22
10 8 12
42 23
4 11

June 17	10	Wire 0	22.1	Flat 16.9			
19					10	3 05	56.3
		Wind & clouds - lost 1st					
June 25	10	3	19.9	15.7	2	53.4	47.7
27	10	3	19.0	12.8	3	2.8	57.1

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γ Virginis	June 14	5	4	36,9	48,8	10	0 45.0	54.0
1 35 08	21	10	2	8,9	20,2	2	58,26,52	
+2 10								
42 23	June 25	10	2	2.9	16.2	2	57.8	
40 13	27	10	2	28.0	36.1	3	25.6	34.6
α Centauri	June 14	0	0	24,3	36,9	1	32.5	44.6
13 59 12	12	0	0	28.2	39.6	0	30.8	43.2
−35 44	21	0	2	54,0	57,2	3	45.6	58.8
+3								
−35 41	June 25	0	2	56.3	7.7	4	3.4	14.3
42 23	26	0	3	1,8,0	6,2			
78 04								
α Draconis	June 14					20	2 17.4	17.9
14 01 58	12		Just a.c. a			20	2 17.9	17.9
+64 59	19	20	4	6.7	8.2	4	51.3	53.2
42 23	21	20	4	23,1	25,4	4	41,4	42,2
37 24	3 strs. before Cent group							
	Cent set = meridian							
	June 25	20	3	53.7	57.9	4	33.5	33.5
	26	20	3	54,1	5,4	4	2,8	33,1

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1871

α Bootis	June 14	85	2	5-9,3	67,2	4	1,6	6,8
14 4 34								
+25 41	June 17	35	2	68.8	4.8	4	6.0	12.2
42 23								
16 42	19	40	0	50.6	58.4	1	42.3	43.7
	21	40	0	31,0	38,0	1	21,6	28,8
	25	40	0	47.8	53.0	1	44.0	50.1
14 Bootis	June 14	45	1	6,1	15,6	2	12,5	21,4
14 7 57								
+13 34	17	45	1	7.1	14.7	2	4.2	11.2
+1								
13 35	19	45	3	56.7	5.2	4	45.7	57.6
42 23								
28 48	21	45	3	34,5	43,1	4	32,6	43,0
	25	45	3	34.3	41.8	4	34.2	41.7
α Bootis	June 14	25	3	48,2	58,2	4	52,3	60,7
14 09 50								
+19 51	17	~~30~~	—	—	—	0	~~34.2~~ 41.4	12.5
42 23								
22 32	19	30	1	30.2	42.9	2	24.3	33.1
	21	30	1	20,2	30,1	2	15,0	22,2
	25	30	1	17.1	24.3	2	11.1	18.3
	June 26	30	1	24,9	32,6	2	14,4	22,1

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1871phae.proj.13802

1871

λ Virginis
14 12 10
−12 47
+
−12 46
42 23
55 09

June 14	5−	2	~~48.4~~ Ref a		5−	1	48.4 59.1
17	5−	last 0	1 wire 38.7	7.2	2	193	29.7
19	5−	3	33.2	44.8	4	48.2	59.8
21	5−	3	22.6	35.0	4	11.4	23.8
25−	5−	3	23.8	34.0	4	24.3	34.5

Boötis 4757
14 14 40
−34 12
+3
−34 09
42 23
76 32

June 14	25−	3	38.5	49.0	4	52.0	62.4
		25½ Ju Ca					
17	25−	1			4	58.0	9.5
19	30				2	8.7	20.2
21	30	1	5.8	16.3	2	1.0	14.9
25−	30				2	6.1	17.2

ϑ Librae
14 16 82
−11 08
+1
−11 07
42 23
53 30

June 14	25−	1	51.0	62.8	2	53.6	64.2
19	25−	4	285.398		30	0462	554
21	25−	4	16.4	28.2			
June 25−	25				4	42.3	48.6
26	25	4	20.4	30.1	6.0	7.6.4	

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1871

ε Bootis		June	15	0	28.8	24.3	10	45.7	58.2
14 18 22					mid wire & fore wires				
+11 3 +1 2			25	10			4	58.0	53.2
113 14			27	15	0	16.5	11.8	0	7.3	57.0
42 23			29	15	0	45.0	40.8			
89 09										
ζ Bootis		1871 June	19	55	1	23.7	25.9	2	19.6	22.2
14 20 51			21	55	1	13.3	15.2	2	5.5	7.9
+52 27			25	55	1	23.2	23.9	2	2.0	3.4
42 23			26	55	1	21.3	22.3	2	1.8	3.2
56			27	55	1	33.3	34.6	2	3.7	5.2
						mid wires				
		July	3	55				2	7.8	9.5
B A.C. 4797		1871 June	19	35	1	32.6	38.2	2	32.2	38.7
14 22 58			21	35	1	26.5	34.2	2	17.6	24.8
+36 46			25	35	1	24.7	30.0	2	15.4	21.0
33			27	35	1	41.2	46.0	2	16.2	21.1
37			30	35	1	27.9	32.0	2	15.1	20.4

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ρ Bootis
14 26 18
+30 56
23
27

1871

June 19	25	1	51.6	53.4	2	42.8	49.0
21	25	1	27,2	31,1		23,1	31,0
26	20	1	35,1	41,7			
July 1.	25	1	37.1	43,8	2	22.2	32.1
3	25	1	15.4	19.0			

δ Bootis
14 26 54
+38 52

June 25	30	0	26.9	30.1	1	25.8	29.2
		1st δ 1.5 2nd late					
27	30	0	42.3	45.2	1	17.2	19.9
30	30	0	33.9	36.5	1	29.3	32.2
July 9	30	0	34,5	35.0	1	24,8	24.7
12th	30	0	32.7	34.1	1	25.0	26.7

5 Ursæ Min
14 27 56
+76 17
2

~~June 26~~	mid. t.		d.f.		
July 1.	5-	3	10.1	11.2	
3	5-	2	50.7	47.8	mid Δ 5 fol
7	5	2	26.2	22.9	
9	cont Δ (Mid. Cyn.)				
	5	3	2.1	-0.7	5- 3 88 7.0

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B.A.C. 4838	1871 June 19	30	0	50.6	2.2	2	0.7	12.5	
14 32 14	21	30	0	34.7	48.3	80	31.0	46.0	
−26 19	25	30	D	41.7	52.0	1	32.3	43.7	
−26 08	26	30	0	41.2	52.3	1	42.2	52.6	
	27	30	0	56.0	6.0	1	41.3	50.9	
π Bootis	June 19	20	4	26.5	36.0	55	0	23.8	34.2
14 34 40 pr	21	20	4	8.9	20.6	4	6.5.7	7.0	
+16 58	25	20	4	15.2	24.9	25	0.4.2	11.0	
	27	20	4	26.3	33.9	25	0	9.4	17.0
	July 1	20	4	18.2	33.9	25	0	3.8	9.0
ζ Bootis	June 5	0		44.0	50.2	1	25.4	37.7	
14 35 00	30	5	0	41.2	49.3	1	51.0	—	
+14 17	July 3	5	0	31.9	37.9	1	42.4	48.0	
+1	7	5	0	38.9	42.2				
+14 18	9	5	1	11.5	15.1				
(Nearly)				Last A					

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	ε Bootis	1871							
	14 39 22	June 19	45	0	51.8	59.0	1	50.3	56.7
	+27 37	21	45	0	35.7	44.0	1	25.1	33.0
	25	27	45	0	40.8	46.2	1	19.3	24.5
	46	30	45	0	50.0	55.1	1	19.8	25.7
					∫ among		2 wires		
		July 3	45	0	33.9	38.3	1	31.4	36.8
	109 Virginis	June ~~19~~							
	14 39 46	June 25	55	0	3.8	13.2	1	57.3	64.3
	+2 26	26	51	1	7.9	18.2	2	5.0	19.2
	+2 27	July ~~26~~	55	1	6.7	16.1	1	55.8	2.7.3
		7	55	1	10.0	16.5			
		July ~~10~~	55	1	9.2	16.3			
	α Librae	June 19	50	2	2.2	14.0	3	1.2	13.1
	14 43 36	~~20~~							
	-15 ~~27~~ 30	25	50	1	55.2	7.4	2	53.8	4.4
	-15 ~~26~~ 29	26	50	2	5.8	10.1	2	51.7	4.2
		27	50	2	0.2	10.8	2	54.9	5.0
		30	50	2	3.3	15.3	3	0.4	13.2

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Eq. Boötis 14 45 29 +19 38	1871 June 25	40	4	28.1	37.7	45- 0	32.1	32.3
	26	40	4	30.5	40.8	45- 0	14.6	24.7
	30	45-	0	26.3	35.7	lost first 3 lines & fell		
	July 1.	40	4	24.5	34.6	45- 0.1	0.3	19.6.
	July 3	40	4	26.7	33.3	45- 0	16.8	22.7
Gr. 21 64 14 48 40 +59 50	June 26	30 40	4	8.4	11.3	4	53.2	55.9
	27	30	4	17.8	19.3	4	54.7	57.8
	30	35-	0	3.0	4.2	8 fol		
	July 1.	30	4	4.2	8.1	4	59.5-	61.3
	3	30	4	17.8	19.2	35- 0	6.9	6.9
ρ Ins Min 14 51 17 -74 43	June 25	40	2	37.4	37.0	3	30.6	30.0
	26	40	2	35.2	32.3	3	24.3	24.7
	27	40	2	46.4	45.1	3	27.2	26.3
	July 1.	40	lost 1st of m.t. 3	21.3	21.0	obsd - last 4 of mt + last E - 8 f.		
	3	40	1st 2nd lost 2	41.2	38.0	3	14.8	12.0

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1871

υ Librae 14 54 07 −7 59 +1 −7 58	June 25	20	2	12.0	22.0	3	9.8	19.3
	26	20	2	20.2	40.6	3	12.3	23.2
				Cont-L,				
	27	20	2	28.3	39.3	3	15.3	23.7
	30	20	2	18.0	27.8	3	26.2	33.2
	July 1	20	2	25.0	34.9	3	13.8	25.3
β Bootis 14 57 10 +40 52	June 26	25	3	56.8	63.5	4	44.3	48.9
	27	25	4	0.3	4.5	4	43.2	45.8
	30	525	3	56.8	57.0	4	45.3	49.0
	July 1	25	4	0.4	4.7	4	48.0	51.8
	3	25	3	58.2	6.3	4	58.3	58.1
ψ Bootis 14 58 59 +27 29	June 26	55	0	42.8	50.2	1	27.2	34.8
	27	55	0	40.6	45.1	1	29.4	35.1
	July 1	55	0	46.7	51.0	1	32.5	39.4
	3	55	0	49.6	52.7	1	48.2	52.7
	7	55	5 fell reject from 0			1	30.8	33.2

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1871phae.proj.13888

1871

ε Bootis 15 01 42 +25 24	June 25	0	0	25.0	31.2	1	27.2	34.8
	26	0	0	28.8	36.8	1	17.0	22.7
	27	0	0	30.0	38.0			
	July 1.	0	0	24.0	31.5	1	11.7	19.0
	3	0	0	20.1	24.2	1	19.8	24.8
24 Draconis 15 04 54 −19 16 +1 −19 15	June 25	40				0	25.0	34.8
	26	135	4	40.1	49.5	40 0	31.9	42.2
	27	35	4	44.9	54.5	40 0	33.0	42.0
	July 1.	35	4	34.1	44.9	40 0	22.5	31.4
	3	40				0	36.8	44.3
1 Lupi 15 6 44 −31 02 +03 30 59	July 7	20	2	23.3	33.8	Some wisps of fog or haze		
	8	20	2	24.7	35.3	3	12.8	24.0
	July 12	20	3	1.2	9.4	3	34.3	33.2
	13	20	2	26.2	34.1	2		
		lost a,						

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1871

P Librae 15 10 06 −8 55 −8 54	July 7	15	1	23.9	30.0			
	8	15	1	20.8	28	2	10.6	18.5
	12	15	1	24.6	30.2	2	8.9	15.0
	13	15	1	19.1	24.8	2	15.6	22.9
S Bootis 15 10 19 +33 48	July 9	35	0	5.6	11.9		51.0	56.8
	10	35	0	6.9	8.4			
	20	35	0	4.6	9.9			
	23	35	0	−1.2	5.0			
S Lupi 15 12 55 −40 11 −40 07 42 23 42 30	July 7	30	3	faint 35.1	46.0			
	13	25 sure	2	26.0	36.3	8	14.9	26.0

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1871

γ_2 Lupi
15 14 55
−36 24
3
−36 21
23
J4

ε Librae	July 7	10	lost 1 4	30	0.38	5	fair
15 17 14	8	10	3	32	40	4	19.0 27.0
−9 52	10	10	4	122	46.2		fair
1			strom before d,				
−9 51	12	10	3	26.8	33.7	4	27.8 35.2
	13	10	3	22.3	30.9	4	18.7 26.2
γ_2 Ius Min	July 7	5−	1	0.8	56.3		
15 20 58	8	5	1	1.2	58.3	1	46.7 43.5
+72 14	10	5	0	57.8	54.3		
	12	5−	0	53.5	49.8		lost last group
	13	5−	1	1.4	−2.7	5	1 46.2 41.6

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1871

β Coronae	July 12	45	4	42.2	46.0	50	0	42.2 45.8
15 22 33	13	50	0	16.2	20.5		D	36.0 40.0
+29 33				one wire bad.				
	20	45	4	42.6	49.8			
	23	50	0	27.3	34.6			
				∫ ful.				
λ Bootis	July 7	5	1	35.0	36.9			
15 26 28	8	5	1	36.8	39.2			
+41 16	10	5	1	35.6	39.2			
	12	5	1	26.1	28.1	2	17.6	17.9
	13	5	1	27.2	29.3	2	21.1	22.8
	20	5	1	8.9	12.8	Rej' gd		RA
λ_2 Bootis	July 8	0	2	43	48	3	31.6	33.2
15 27 10	12	0	2	58.8	60.3	3	35.3	36.8
+41 30	13	0	2	55.0	60.2	3	38.1	40.4
	20	0	2	35.8	40.3			
	23	0	2	40.2	46.1			

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1871

a Cor Bor 15 29 18 +27 09	July 7	10	3	50.5	57.8			
	8	10	3	39.4	57.2	4	36.8	40.7
	10	10	3	48.4	52.0			
	12	10	3	much ♯ 53.8	58.0	4	44.7	48.2
	13	10	3	43.7	49.1	4	31.2	37.0
	20	10	3	46.2	53.7			
			2d str last ♂					
ψ¹ Lupi 15 31 36 −34 00 3 33 57	July 8	15−	3	64.3	65.4	4	49.3	62.2
	20	15−	3	46.9	59.2			
ψ² Lupi 15 34 30 −34 18 −3 34 15	July 7	35−	2	57.6	7.1	♂ fol		
	12	35−	2	5.8	15.8	3	19.8	29.0
	13	35−	1	58.4	6.9	3	5.7	15.9
	20	35−	2	05.7	18.2			

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1871 — 1876

A Serpentis	July 20	30	2	29.0	39.1			
15 37 58	23	30	2	22.7	32.3			
+16 50	July 2	30	2	24.8	32.9			
	1, 3	30	2	24.1	31.8			
B Serpentis	July 13	30	3	57.2	65.1	3	47.0	53.9
15 40 17	20	30	2	5-2.0	60.9			
+15 49	23	30	2	53.7	63.2			
	July 2	30	2	56.9	64.9			
	3	30	2	57.5	61.0			
15 42 36	July 13	20	4	16.1	26.1			
−3 02	20	20	4	11.6	22.7			
ν Serpentis	23	20	4	10.7	22.6			
	July 2	20	4	8.8	19.9			
	3	25	0	10.1	17.2			

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1871phae.proj.13802

1871

ε Serpentis 15 44 26 +4 8 2	July 13	30	0	18,4	24,6	1	6,7	15,8		
	23	30	0	22,2	34,6					
	27	30	1	7,9	17,4					
	dup									
λ Librae 15 45 53 −19 44	July 13	5	3	18,0	26,0	5	4	4,3	17,5	
	dup	5	3	14,0	22,4					
ε Ins Min 15 48 35 +78 11	July 13	10	2	18,2	14,8	10	8	4,8	2,3	
	20	10	2	20,4	18,6					
	23	10	2	8,2	8,3					
	27	10	2	18,0	17,3					
	dup 2	10	2	18,8	17,3					
	3	10	2	2,5	4,8					

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15 50 33 +16 07	July 23	15	2	26.5	35.4	
	Aug 3	15	2	31.8	40.0	
ζ Serpentis						
ν Scorpii 15 52 49 −22 16	20	30	9	22.1	34.5	
	23	30	1	21.1	32.2	
	Aug 2	35	1	22.0	31.8	
	3	35	1	17.0	21.7	
Sgr. 22 96 15 54 45 +56 07	July 13	15	1	15.2	19.0	2 8.8 10.2
	20	15	1	32.2	36.2	
	22	15	1	47.2	50.5	
	23	15	1	18.0	22.2	
	Aug 2	15	1	30.8	33.6	

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1871

B, Scorpii	July 18	45	3	26,1	36,2	4 21,8	32,3
15 57 86	20	45	3	20,2	40,9		
−19 25	22	~~45~~	~~3~~	~~53~~	~~56~~		
		45	3	27,7	38,8		
	23	45	3	27,2		37,8	
	day 2	45	3	27,2		36,4	
δ Draconis	July 18	25	3	41,8	43,3	4 25,7	26,3
15 59 30	20	25	3	50,0	56,4		
+58 54	22	25	4	20,2	24,0		
				Albed		✓ fine	
	23	25	4	11,4	14,4		
				Cont & mid Sp.			
	day 3	25	3	38,8	40,1		
12	July 13	55	4	3,2	11,8	4 58,4	66,0
16 2 18	20	55	4	6,3	15,1		
+17 23	22	55	4	3,3	11,8		
x, Herculis	~~23~~	~~25~~	~~4~~	~~11,4~~	~~14,4~~		
				Cont − A	mid Sp.		
	27	55	4	4,0	11,7		
	day 3	55	4	6,2	4,6		

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1871

ν Scorpii	July 13	35	1	1,4	11,1	2	5,1	13,3	
16 04 30	W	25	3	5 22	63,3				
−19 08	22	25	3	48,7	57,2				
	23	25	4	16,4	26,9				
	27	25	3	58,0	68,3				
σ Ophiuchi	July 13	40	3	43,7	53,2	40	436,0	45,4	
16 07 37	W	40	3	44,7	55,0				
−3 22	22	40	3	45,0	56,3				
	23	40	3	43,6	55,0				
	27	40	3	50,4	59,7				
	Aug								
ε Ophiuchi	July 13	40	4	41,4	51,8	45-0	50,6	59,9	
16 11 32	W	40	4	41,1	53,8				
−4 23	22	40	4	44,8	55,2				
	23	40	4	36,8	48,2				
	27	40	4	44,6	54,0				

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1871

19 Urs Maj 16 14 45 +76 13	Aug 22	10	1	36,6	34,2		
	23	10	1	44,0	42,6		
	27	10	1	30 5	29,5	1 48,0	~~50,2~~ 48,8
	Aug 2	10	2	000	58,7		
ζ Herculis 16 16 46 + 29 27	Aug 3	50	5	1,2	8,9		
	10	55	0	0,7	8,0		
α Herculis 16 19 30 +14 20	Jul 20	0	2	37,2	45,6		
	22	0	2	37,3	45,5		
	23	0	2	39,3	47,7		
	~~27~~ 27	0	2	36,0	42,0	3 30,0	36,8
	Aug 2	0	2	42,4	50,0		
	3	0	2	38,9	46,3		
	10	0	2	32,9	40,7		

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a Scorpii	Aug 23	25	4	25 3	38,9			
16 21 31	27.	25	4	38,3	50.0	30	0, 14,3	24,7
−26 09	Sep 10	25	4	046,	463.			
h Draconis	Aug 2.	30	4	~~42.5~~	57.9	35	0 29,2	31.9
16 22 18	3	35	0	7,1	9.9			
+61,48	6.	30	4	46,0	4F.4			
	~~10~~							
λ Ophiuchi	July 23	5	1	16,4	28,2		~~2 0,3~~	
16 24 24	27.	5	1	23,2	31,5		2.0,3	12,9
+2 16		ref.	1 in place		13,−			
	Aug 2.	5	1	17,4	25,6		1,53,6	62,9
	3	5	1	8,2	16.1			
	6	5	1	14,9	23,4			~~7.0 16.~~
	10	5	1	5,9	19,6		57,2	65.7

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1 Scorpii 16 27 52 −25 59 3 27 54	July 23	15	3	11	16.2	ofve	
	Aug 2	15	2	38.0	48.4	320.7	30.7
A Draconis 16 28 20 +69 02	Aug 3	20	0	21.3	19.7		
	6	20	0	16.4	20.0	± 7.0	10.5
	10		0	45.5	47.1	0 18.2	160
	18	20	0	33.4	33.1		
3 Ophiuchi 16 30 06 −10 19 7 −10 18	July 23	40	0	46	1.50		
	Aug 2	40	0	27.1	36.8	ref- & pre-	
	3	40	0	2.9	2.2		
	5	40	0	36.2	42.0	d among wires middle group-	
	6	40	0	36.5	44.9		
	10	40	0	5.0	14.5	50.8	6.00

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1871phnae.proj.1388R

1871

B.A.C. 6579
16 34 09
−17 30
2
17 28

~~July 27~~	~~40~~	~~0~~	~~2 21.1~~	~~31.3~~	~~1 1.7~~	~~9.9~~
Aug 2.	50	0	59.4	1.9.7	1 45.1	54.7
~~3~~	~~40~~	~~2~~	~~34.3~~			
5	50	1	10.1	18.6	1 58.2	2.6.1
6	50	0	58.4	8.9		
10	50	0	55.4	65.1	1 38.8	48.4

3 Herculis
16 36 31
+31 50

Aug 2	30	2	31.6	36.9	3 17.0	21.0
3	30	2	31.3	31.5		
5	30	2	35.8	38.2	3 14.1	17.7
6	Rej'd bad telescope					
10	30	2	37.2	38.6	3 17.1	23.0

ρ Herculis
16 38 34
+39 09

Aug 2	10	2	50.2	53.8	3 31.7	35.8
5	10	2	41.9	45.0	3 33.5	34.9
6	10	2	45.3	48.2		
10	10	2	45.7	49.8	33.0	37.5
11	10	3	30.7	33.9	d fol	

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1871

a Camel Lb.	Aug-	5-	30	3	26.6	21.0	30.5	2,55.6
16 41 04		6	30	3	42,5	39.4		
113 53		13	30	3	37.9	32.3	3 13.2	7.9
Gj 2377	Aug. 2-		20	2	15,5	18,2	3 14,7	16,6
16 ~~04~~ 28 43 04		5-	20	2	45.0	45.0	3 12,6	14,2
+57 02		10	20	2	22,0	25,3	3 6,3	9,8
					sfol			
		11	20	3	4.2	5.3		
		13	20	2	27.1	28.3	3 4.2	5.2
5 Mercules	Aug 2-		10	0	52,8	58,6	1434.	50,3
16 46 15		5-	10	0	58.5	63,2	1 42,8	47,3
+18 12		6	10	0	52,9	58,8		
		10	10	0	57,1	648	1 48,7	53,5
					mod grd fol			
		11	10	1	33,3	38,5		

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1871

ι Ophiuchi	Aug 2	55	4, 37,0	44,8	0,0,27,0	34,
16 47 57	5	55	4 31,7	38,0	0,0,22,0	27,
+10 23	6	55	4 30,3	41,2		
	13	56	4 37.8	45.6	0 0 20.7	2
	Sept 3	55	4 40.1	43.1		
κ Ophiuchi	Aug 2	45	2,47,2	54,9	3 39 8	46,
16 51 37	5	45	2 49.0	55,7	3 31.5	38,
+9 35	6	45	2 49,3	57.6		
	10	45	2 47,8	56,3	28,8	37,6
	11	46	2 43,5	50.2		
	? 13	46	2 53.1	59.1	3 42.8	49
ξ Herculis	Aug 2	15	0 44,9	49,6	1 41,2	45,
16 55 26	5	15	0 41.0	45,0	1 27,1	30,
+31 07	6	15	1 8,7	13,9	4	
	10	15	0 42,1	48,0	1 32,7	37,
	11	15	0 42.0	46,3		
	13	15	0 40,4	44,7	1 30.6	33

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1871phae.proj.13802

Observations

Circle Readings in 1871

General Catalogue

B2

1871 — 2

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1871

X ε Ins. Min 16 ~~59~~ 40 +82 15	Aug 5	5	3	57,0	54,6	4 50,2 47,6
	6	5	4	5.9	4,7	4 37.0 3.6
	9	~~5~~	~~4~~	~~46~~	28	5 4 38.0 37.0
						Mid. Lt.
	10	6	4	0.7	0.6	4 44.7 43.1
	11	5	4	12.8	15.1	
ν Ophiuchi 17 03 02 −15 34	Aug 5	55	0	25,4	33,2	1 24,6 32.1
	10	40	10	27.2	28.2	
	13	55	0	~~28.3~~	30.2	1 12.9 —
	Sept 3	55	0	16.4	25.3	
X Gr. 24 15 17 03 35 +40 41	Aug 6	40	1	46,0	48,3	
	11	40	1	46.8	48.3	

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1871

B.A.C. 6804	Aug	5	40	3	26.2	37.0	4	18.6 26.8
17 06 54		6	40	3	0	20.0	3	1.3
−33 24		9	40	3	21.3	33.3	3	46.1 57.9
33 21		11	40	3	25.8	34.3		
		13	40	3	17.8	26.9	4	12.6 21.2
× α Herculis	Aug	5	50	0	8.5	13.3	1	0.3 7.5
17 8 50		6	50	0	5.4	11.3		
+14 83		9	50	0	12.7	18.2	1	2.8 8.5
		10	50	0	10.8	16.5		
		11	50		Mist for Sol			
				1	40.6	45.7		
		13	50	0	5.2	11.5	1	4.4 9.1
× π Herculis	Aug	5	25	0	23.9	26.8	1	18.5 19.5
17 10 39		6	25	0	29.3	34.1		
+36 58		9	25	0	30.6	34.5	1	25.3 31.1
		13	25	0	29.0	31.7	1	13.6 16.7
		17	25	0	31.2	34.2		

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1871phae.proj.1380R

1871

Q Ophiuchi
17 14 26
−24° 5'3

Aug 6	40?	3	17,4	28,5			
~~8~~	20?						
10	10	3	1.9	12.1			
18	10	2	54,0	66,3	3,53,2	65,2	
11	15	4	last 1st time				
19	10	3	4,1	15,4			
22	10	3	1,2	6.8			

ω Herculis
17 15 58
+32 37

Aug. 5	40	4	46,3	50,1	5, 25,0	36,0	
18	40	4	41,5	46,3	45,0	29,8	33,9
22	40	4	46,5	46,9	542,3	37,4	
31	40	4	47.5	45.8			
Sept 10	Just seen						

ι Ophiuchi
17 18 29
−24 04

Aug 6	20	4	14,3	15,6			
9	20	4	9,3	21,5	0	0,3	10,6
13	20	4	16.1	24.3	25	0	3.3	12.0
17	20	4	18.6	26.9			
18	20	4	17.1	26,5	25	0,8,0	18,5

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1871

b Scorpii	Aug 6	25	4	57.5	71.3			
17 21 59	9	30	0	-3.5	-8.9	0	30.3	43.9
-37 12	10	25	4	49.2	61.3			
	13	25	4	40.7	58.3	30	0	38.1
	18	25	4	40.8	57.0	5	34.2	46.4
λ Scorpii	Aug 6	15	4	52.0	65.3			
17 24 53	9	15	3	44.1	56.5	4	0	4.4
-37 01								52.6
42 25								
79 24								
79 20	13	15	4	3.4	16.0			
				1 etc for 5				
	17	15	3	52.2	64.4			
	18	15	3	49.6	62.2	4	36.8	50.5
× β Draconis	Aug 6	20 55	4	14.8	17.8	0	00.8	13
17 27 38	10	55	4	14.2	14.3			
+52 24	11	55	4	15.0	13.2			
	17	55	4	14.8	13.9			
	18	55	4	12.8	12.9	4	54.0	61.7

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1871phae.proj.1380R

1871

ζ Ophiuchi
17 29 02
+12 39

Aug 6 40 8 20 14.5
9 40 8 8.3 45.6
18 40 3 37.3 45.8 middle group of –
19 40 3 8.0 14.8
~~22 40 3 4.1 5.9 4.1.3 5.0~~
31 40 3 8.3 9.7

μ Ophiuchi
17 30 52
–8 03

Aug 6 ~~40 8 20 14.5~~ 20 4 10.1 21.5 –
9 20 4 ~~48~~ 15.9 25.0 8.1 12.0
8 fol
17 20 4 57.3 66.2
~~22 20 4 10.7 14.9 5.2.8 7.3~~
31 20 4 13.2 20.0

χ Scorpii
17 32 8
–38 58

Aug 6 15 0 44 17.0
18 not seen
~~22 15~~
~~15 0 0.00 7.1 0.46.9 54.5~~

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1871phae.proj.1388R

1871

68 Ophiuchi 17 35 42 −21 27	Aug 6	55	3	16.1	29.3			
	9	55	3	17.5	19.3	4	0.2	14.1
	10	55	3	20.2	30.9			
	11	55	3	19.3	29.2			
	17	55	3	17.0	26.2			
X ω Draconis 17 37 47 +68 49	Aug 6	30	4	40.5	35.5			
	9	30	4	28.4	26.0	3	5.0	1.6 1.6
	16	30	4	22.0	21.3	3	7.5	5.4
	22	30	4	21.6	16.5	5	15.0	9.3
	31	30	4	24.3	27.1			
3 Sagittarii 17 39 18 −27. 47	Aug. 22	5	3, 3, 3, 10.3					
	Sept 1.	5	2	17.1	15.0			
	3	5	2	22.5	24.8			
	10	5	2	19.3	24.9			

of. last series.

last series rejected. Mean of 1st 2

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1871phae.proj.1380R

1871

× μ. Herculis.
17 41 18
+27. 48.

Aug 22	3	0	4.56.3	56,6	35	0.44.4	45.4	
~~Sept 1~~	~~35~~	~~0~~	~~3.5~~	~~5.1~~				~~δ in f and t~~
								~~prom 2 no~~
Sept 3	35	0	37.8	39.7				~~f and t~~ δ fol
7	30	4	5-3,0	56.1				

× γ' Draconis
17 44 17
+72. 13

Aug 22	10	0	57.1	57,1	1	40,6	34,2	
28	10	1	2.9	45.1	1	34.3	27.5	
31	10	0	56.0	48.9				
~~31~~	~~10~~	~~0~~	~~57.0~~	~~48.9~~				
~~Sept 1~~	10	0	56.8	67.4				
	10	1	35.2	38.3				δ fol
3 10	10	1	23.2	16.9				δ fol

B. A. 6. 6062
17 47 47
+40. 01

Aug 22	10	1.34.4	33,4	2	23.0	21,5		
28	20	2.15.9	11.3	2	53.0	57.0		
29	20	2 18.4	18,3	3	3,7	4.1		
31	15	1	36.3	34.5				
~~Sept 1~~	~~20~~	~~2~~	~~15.1~~	~~12.3~~	~~3~~	~~1.2~~	~~0.4~~	
Sept 3	20	2	12.2	16.8				

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1871phae.proj.1380R

1871

89 Herculis
17 50.06
+26.04

Aug 22	15-	3	19.2	20.5-			
28	15-	3	24.9	25.8	4	12.0	11.0
~~29~~	~~15-~~	~~3~~	~~21.8~~	~~24.6~~	~~4~~	~~8.7~~	~~11.2~~
31	15-	3	22.0	20.8			
Sept 1	15-	3	21.7	25.3	4	10.2	13.4
	mid gr & fol						
3	15-	3	54.2	55.7			

× γ Draconis
17 53 33
+51.30

Aug 22	50	2	50.6	47.4	3	38.7	36.4
28	50	2	49.6	46.2	3	37.3	33.4
29-	50	2	45.9	43.5			
31.	50	2	47.7	42.4	3	35.5	31.7
Sept 1	50	2	47.3	56.1	3	31.7	30.0

× 35 Draconis
17 55 13
+76.59

Aug 28	25-	0	33.0	26.7	
29	25	0	31.2	26.7	
	(mid gr - d.f.)				
31.	25-	0	37.4	30.4	df - mid gr
~~Sept 1~~	~~25~~	~~0~~	~~12.2~~	~~7.1~~	~~0~~ ~~31.3~~ ~~26.1~~
3	25-	0	13.8	8.2	
12	25-	0	-8.0	-6.5	0 11.9 6.2

cont - a b c

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1871phae.proj.1380R

1871

γ^2 Sagittarii. 17 57 20 −30. 25.	Aug 31	45	0	34.0	40.9	19.5	26.1
	Sept 1	45	~~0~~	~~33~~	~~40.8~~	23.0	31.1
		45	0	31.0	35.4		
		45	0	32.4	39.4	22.2	30.0
				Cont-8 Wis.			
B. A. C. 6127 17 59 43 −28. 28	~~Aug 29~~	~~40~~	~~3~~	~~34.5~~	~~43.6~~		
				mid qr-d.			
	Aug 31	45	3	39.4	46.1	4. 23.6	30.8
	~~Sept 1~~	~~45~~	~~3~~	~~38.5~~	~~44.2~~	~~4. 10.8~~	~~16.8~~
						~~1 hyst.~~	~~8~~
	Sept 3	45	3	31.6	38.1		
	6	45	3	41.6	48.8		
	7	45	3	37.1	46.1		
× o Herculis. 18 2 31 +28. 45.	Aug 29.	35	2	55 0	56.5	347.5	50.5
	31	35	2	56.9	58.0	3.42.4	43.1
	Sept 1	35	2	57.0	53.0	3 47.0	49.3
	3	35	2	53.8	57.3		
	6	35	3	0.8	4.8		

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1871phae.proj.1380R

1871

VI

22 Camelop 18 4 18 +110.38	Sept 2	45				2	10.2	0.3
	7	45	8	7.2	—	2	9.5	0.2
	10	45	2	55.8	47.1	2	10.1	1.7
12 Sagittarii time early	Aug 31	25	1	40.3	47.0	2	28.1	34.6
18 5 52 + 21 5	~~Sept 1~~	~~25~~	~~1~~	~~36.2~~	~~42.8~~	~~2~~	~~20.8~~	~~27.0~~
	3	25	1	37.6	44.1			
	6	25	1	44.8	48.9	2	43.9	49.7
	Sept 18	25	2	36.2	49.0			
ν Sagittarii 18 8 42 −36.48	Aug 29	5	1	25.3	33.7	~~2~~	~~20.0~~	~~29.2~~
	31	5	1	14.4	22.8	2	9.0	16.8
	Sept 1	5	1	16.3	23.9	1	59.8	9.1
	2	5				2	6.8	15.2
	6	5	1	21.8	28.6	2	2.0	11.9

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δ Sagittarii.
18. 12. 33
−29. 5·3

Sept 2	10	3	4.0	13.2				
3	10	3	4.0	12.8				
6	10	3	9.8	16.1	10	3	58.7	5.2
7	10	3	2.9	12.8		3	40.0	48.9
18	10	3	57.9	6.1				

× η Serpentis.
18 14. 29
−2. 56.

Sept 2	15−	2	54.8	62.2				
6	15−	2	56.2	60.9	3	50.2	55.2	
7	15−	2	49.9	6 3 5−				
18	15−	3	3 7.1	48.9	4	29.2	41.2	

21

× δ Ursæ Minoris.
18. 14. 55−
+ 86. 36

Aug 29. ~~45− 2 51,0 42,1 3 6,0 0,0~~
~~Sept 1 left 2nd qrs. 6 t 2nd 2 no qrs~~
~~3 strokes per wire.~~

Aug 31 45− 2, 48,5 39,3 mid qr −
signal after δ− 3−5,5 −3.0

2 Sept 1 δ before transit
qrs two after 1 wire

Sept 1 45− 2 52.1 58.1 3 11.0 29

Error a b c²

7 45− 3 7.4 59.3

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1871

× 109 Herculis.
18 18 12
+21.43

Sept 2	35	4	48.7	51.9				
3	35	4	48.2	52.0				
6	35	4	55.9	57.3	10	0	47.1	49.2
~~7~~	~~35~~	~~4~~	~~37.6~~	~~35.8~~				
7	40	0	11.2	14.0		0	48.0	49.1
10	40	0	8 25	35 6	mid gr.			

× ζ Draconis.
18 21 58
58.49.45

Sept 30	35	4	36.8	35.0				
6	35	4	37.6	35.8	40	0	23.3	21.1
7	35	4	27.2	27.3	40	0	23.2	21.2
10	35	4	36.4	34.8		0	17.3	15.0
21	40	0	20.1	30.3				

× χ Draconis.
18 23 23
72.41

Sept 2	40	2	54.6	48.3				
7	40	3	mid gr. 20.8	15.8		3	33.4	29.0
10	40	3	m. gr. 10.6	5.0		3	28.8	25.8
18	40	3	34.7	42.6		4	29.3	36.9

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1871

						mid gr	δ fol
B A C 6318 18 25 5.2 59 28	Sept 2	55			0	58.7	53.8
	3	55	0	22.7 19.0			
	6	55	0	22.0 18.0	1	9.4	6.0
	7	55	0	24.1 20.8	0	59.0	56.0
	8	55	0	23.1 20.2			
	18	53	1	6.5 13.3	1	53.3	64.1
ν Aquilae 18.28.1 — 8.20	Sept 2	40	1	53.3 62.1			
	6	40	1	52.9 56.5	2	48.3	52.3
	7	40	1	41.9 48.7	2	29.4	36.7
			mid gr	δ fol			
	8	40	2	22.2 28.3			
	10	40	1	57.8 63.3	2	36.0	41.2
× α Lyrae - 18 32 34 + 38.40	Sept 2	40	2	55.6 55.9			
	3	40	2	56.8 56.7	2	47.3	52.3
	6	40	2	48.3 47.8	3	36.3	36.8
	7	40	2	58.1 55.3	3	45.3	46.4
	8	40	2	58.9 59.2			
	18						

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1871

2 Aquarii –				d² band				
18 35 5.	Sept 6	30	2	21.9	26.1	3	7.0	11.3
– 9.11	7	30	2	12.3	19.9	2	07.9	4.1
	8	30	2	13.2	19.0			
	24	30	3	21,5	56.0			
× 51 Cephei – S.P.	Sept 2	35–	4	3.2	54.9			
18 37 42	3	35–	4	4.0	55.0			
+ 92.46	6	35–	3	d.c.b 57.8	51.2			
	7	35–	4	d², ε d d c 4.3	55.2	false star between d & ε		
	8	35–	4	6.3	57.4	mid p		
× 110 Herculis								
18 40 07	Sept 7	65–	2	3.1	7.5–	3	0.4	4.7
+ 20.56	10	55–	2	12.4	14,7	2	5-2.0	54.2
	18	55–	2	07.9	7.8	3	48.0	58.3
	21	55–	2	20,3	15.5			
	24	55–	3	32.1–	3	21		

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1871phae.proj.1386R

B. A. C. 6409
18. 43. 48
-52. 51

Sept 6	30	2	11.9	8.8		2	57.8	53.8
7	30	2	13.8	13.8		2	57.1	57.5
8	30	2	15.3	13.0				
21	30	2	22.7	19.9				
24	00	3	2.4	2		26.6		

× β Lyrae-
18 45 12
33. 13

Sept 6	10	0	17.8	17.8		0	59.1	57.0
7	5	4	51.9	57.3		10	0	45.0 44.3
10	10	0	-3.6	-2.7		1	4.6	42.8
24	10	0	46.8	14.0				

mid 8

σ Sagittarii.
18 47 5
-26. 27.

Sept 7	45	2	57.5	4.8		3	44.8	57.3
10	45	2	58.9	6.0		3	44.1	51.2
18	45	3	41.6	53.1		3	37.5	50.8
24	45	4	44.6	15.4				

last a'

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1871

δ, Lyrae. 18 49 9 36 49	Sept 6	30	4	8.3	8.2			
	7	30	4	8.2	11.1	4	55.2	38.1
	10	30	4	10.2	13.0		35 0	2.0 48
	18	35	0	-4.1	3.2	1	56.2	4.0
	24	35	0	31.9	0.0			
13 Lyrae. 18. 51. 18 +43. 46	Sept 2	35	1	18.2	16.2			
	6	35	1	27.2	23.8	2	7.8	5.8
	7	35	1	18.9	17.2	2	4.1	2.5
	18	35	2	3.8	11.6	2	56.2	5.4
	21	35	1	24.2	20.3			
	23	35	1	59.7	36.0			
× ε Aquilae. 18. 53. 38 14. 53.	Sept 2	25	3	46.0	50.0			
	6	25	3	48.4	50.7	4	30.9	33.7
	7	25	3	46.2	51.3	4	33.4	39.6
	18	25	4	27.8	40.7			
	21	25	4	58.7	46.6			

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1871phae.proj.13800

1871

q Aquilae. 18, 55, 5°7 −3.53	Sept 23	45	0	41.0	13.7
	24	15	0	45.7	20.6
	Oct 4	15	0	55.0	20 Sfoe m groups
	5	15	0	1844	24.3
	Oct 8	15	1	13.2	17.2 $C_1 \sim C_2$ bord.
× ζ Aquilae VV 18 59 28 +13.40	Sept 21	40	2	12.9	4.9
	23	15	2	49.1	20.8
	25	20	2	5.20	22.1
	Oct 4	40	2	25.9	33.5
	5	40	3	5.6	10.3
	Oct 8	40	2	14.1	19.0
π Sagittarii 19.1.55 −21.14	21	0	0	0.7	4.6.2
	23	35	0	11.9	35.2
	24	35	0	07.5	13.0
	Oct 4	35	0	5.9.6	8.7
	5	35	0	5.9.8	8.6

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Sept. 23 Occasional Notes of
24 " " " 1871

B. A. C. 6561	21	40	3	3 1,6	3 22,6			
19 4 34	23	10	4 3	5.1 46.1	3.46,1			
−21.52	24	10	4	7,2	3.43,2			
	Oct 4	10	3	335	42,6			
	8	10	3	35,3	42,6			
ν Sagittarii	21	45	4	30.3	18.2	50	0	26 7 12.0
19.7.27	23	45	4	52.1	50 0 19.5			
−25.29	24	50	0	16,4	4.5 1,0 ?			
				What does this mean?				
	Oct 4	45	4	39,8	49,1			
	Oct 5	45	4	38,5	48,2			
	Oct 8	50	0	21,3	33,2	Not visible		
d Sagittarii	Sept 21	30	2	19 0	7 2			
19.19.05	24	30	2	15,0	32,9			
−19.11	Oct 4	30	2	16,8	25,9			
	22	30	3	19,5	31,0			

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1871

× W Aquilae. Sept 21 0 46.2 38.1 1 35.7 26.5
19 11 46
+11.21. 23 0 1 20.80 48.9
Oct 5 0 1 360 41.9 ✓ fine
Rij 15 S
16 0 1 46,1 47.2 ~~BBD~~ a b c₂

× δ Draconis. Sept 24 55 3 35.6 0.4
VV 19 12 31 25 5 3 0.8 22.5
67.26
Oct 4 55 2 29.7 26.6
8 55 2 34.7 29.0
mon 2 55 3 18.3 9.6

× χ Cygni. ✓ Sept 23 15 1 ~~32.7~~ ~~36.5~~ 57.0
19.14.7 25 45 1 45.6 13.7
53.8
Oct 5 15 0 55 2 54.0 last-dd
8 15 1 16,0 13.1 mid-faint
16 15 1 2.8 3.1 last-d
23 15 0 5.4 8.9
mean 15 1 0.2 52.4

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X' Sagittarii.	~~Sept 24~~							
19 17 14	Oct 4	5	1	29,5	39,5			
−24. 46	oct 5	AR only.						
	8	5	2	25,7	35.2			
	22	5	1	30,2	40,7			
	Nov. 2	30	0	51,7	49,9			
δ Aquilae-	Sept 23	30	1	18.4	47.8	2	23.2	51.6
19 18 59	24	30	1	25,0	55,0			
+2. 52	25	30	1	28,3				
	oct 5	30	1	35.0	41.9			
	22	30	1	24	8.0			
	23	30	1	55,4	61.2			
4 Cygni-	Sept 23	20	0	−0.8	57.2	~~0~~	~~53.6~~	~~21.2~~
19. 21. 23	24	15	4	54,2	21,5			
+36 3	25	20	0	8.3	35.0	0	49.2	23.0
	oct 5	15	4	21,3	23,7			
	oct 8	15	4	17,7	8.2			
	16	20	0	59.0	23	Mgr.		
	22	15	4	22,7	21,7			
	Nov 2	15	4	20.7	18.7			

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1	1871 Oct 8	40	2	100 1.41 1.51	9.3		Sfae
β Cygni	1871 Sept 23	40	2	2.1	27.8	2	52.K 18.2
19.25.31	" 24	40	2	1.1	28.4		
+27.41.	Sept 25	40	1	57.1	25.0	3	435 11.5
	Oct-16	40	1	20.5	22.1		
	Sept-28	40	2	25.8	44.6		
	Oct-4	40	2	3.2	48		
	Oct-5	40	1	29.7	31.1		
	22	40	1	27.1	25.8		
h? Sagittarii	Sept 23	30	1	42.3	16.5		
19.28.50	25	30	1	32.5	8.5		
−25.11	Oct-4	30	0	59.7	9.0		
	23	30	0	3.5	12.8		
K Aquilae	Sept 24	40	1	31.6	5.0		
19 29 47	25	40	1	26.9	5.3		
−7.19	Oct-5	40	0	57.1	6.7		
	22	40	0	57.6	5.9		

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1871

ε Sagittarii	Sept 23	10	2	47.1	24.0	3	41.0	11.2
19 31 18	24	10	2	5-0.2	22.0			
+16.10	oct 4	10	2	29.9	3-0.0			
	oct 5	10	2	28.2	34.9			
	16	10	2	44.1	50.6			
	22	10	2	41.1	46.9			
	23	10	2	4-5.8	5-2.3			
B.A.C. 6737	Sept 23	15	0	27.9	51.4	0	48.8	12.2
19.33.20	24	15	0	28.2	45.1.0			
+63.8.	25	15	0	8.2	29.9	0	37.6	0.7
	oct 8	15	0	20.6	16.1			
	16	10	4	5-2.7	50.3			
	23	10	4	5-3.1	5-3.0			
β Sagittarii	Sept 25	10	2	30.8	2.8	3	24.9	5-5.3
19.35.19	oct 4	10	2	18.1	22.8			
+17.10	8	10	1	57.3	61.4			
	16	10	1	5-2.8	4.0			
	22	10	1	5-2.7	5-9.6			
	Nov 2	10	1	5-8.1	5-9.2			

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B. A. C. 6755 — 1871

19.37.50 — −32.13

Sept. 24	30	3	3	7	10	8		
			med & fol		wings	bad & fol		
28								
Oct 4	30	4	20.7	26.1				
	30	2	56	6	61	2		
16	30	3	40	0	47	2		
22	30	3	18	9	25	3		

χ Aquilae

19.40.11 — +10.18

Sept 24	5	0	44	3	14	6		
25	5	0	12.0	41.9	1	13.0	43.6	
28	5	0	8.0	34.3	0	05.8	33.0	
Oct 8	0	4	27	2	30	6		
16	0	4	48	5	33	1		
22	0	4	37	3	43	9		
Nov 2	0	4	48	2	48	0		

δ Sagittae

19.41.42 — +18.13

Sept 24	10	1	1	5	35	9		
Nov 2	10	0	15	2	15	0		
25	10	1	54	9	26	2		
28	10	0	14.3		45.0		1	5.3	35.2
Oct 8	10	0	20	3	25	4		
16	10	0	35	4	42	6		
23	5	4	28	0	34	5		

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γ Sagittal 1871
19. 43. 18 −
+18. 49

Oct 22	30	8	48	53.5	
Sept 26	30	4	3.2	33	35.0.8.7 40.0
28	30	4	43.8	12.9	
Oct ~~4~~	30	3	57.5	46.2	4 35.(40.2
16	20	4	8.7	15.4	
~~22~~	~~30~~	~~3~~	~~189~~	~~253~~	
23	30	4	6.8	12.4	

ζ Aquilal
19. 44. 33 −
+8. 31

~~Sept 24~~ Oct 4			~~about~~		50 1190 25.0
Oct 5	50	0	56.5	62.0	
16	50	1	34.7	406	c-fol
23	50	1	26.7	32.0	
29	50	0	42.2	43.2	
Nov 2	50	0	44.8	48.1	

η Aquilal
19. 45. 54 −
+0. 40 −

Sept 25	40	2	51.0	21.7	
Oct 4	40	2	389	433	
5	40	2	303	37.0	
8	40	2	28.0	33.5	Mid for δ fol
22	40	1	44.8	50.6	
23	40	2	182	201	
Nov 2	40	2	388	99	

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ε Draconis	Sept 24	25	2	48.0	11.8	3	51.3	15.1
19.48.46	~~Oct 4~~	25	2	48.2	12.0	3	32.8	57.2
+69.56.	Oct 5	25	2	13.0	12.0			
	8	25	2	14.9	12.5	3	1.8	59.6
	16	25	2	17.7	15.7			
	22	25	2	28.2	27.1			
	29	25	2	14.2	7.9			
β Aquilae	Sept 27	15	3	42.0	11.0	5 fol		
19.48.59	Oct 4	15	2	39	9.3			
+6.5	23	15	2	12.9	19.4			
	30	15	2	56.2	57.3			
λ Aus. Min.	Oct 4	25	4	16.5	11.4	B b D		
19.53.19	t.c.s							
88.55.	Oct 8	25	4	14.3	12.7	B. b. D		
	16	25	4	20.4	15.9	B b D E		
	22	25	4	13.7	9.1	25	4	21.0 16.3 Bb
	23	25	4	15.5	12.2	25	4	18.9 14.2
	~~29~~	~~45~~	~~2~~	~~40.2~~	~~30.3~~	~~45~~	~~3~~	~~15.7 6.14~~
	30	25	4	18.2	10.4	25	4	27.0 17.9
	Nov. 2	25	4	27.0	15.3			

writing ff

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1891

ζ? Draconis	Oct 23	55	1	8.7	7.3			
20. 0. 12.	Sept 25	55	1	52.1	13.2	2	15.2	37.2
64. 27.	Oct 8	55	0	49.4	45.4	1	43.3	38.5
	16	55	1	8.7	5.2			
	30	55	0	53.5	45.7			
	Nov 2	55	1	39.7	25.9			
B.A.C. 6924	Oct 16	25	1	35.0	33.0			
20. 2. 32	Oct 8	25	0	7.5	3.9	0	53.6	50.9
55. 58	23	25	0	0.2	1.5			
	30	25	0	15.4	8.9			
	Nov 2	25	0	15.7	9.0			
θ Aquilae	Sept 25	30	4	55.9	26.6	35	0	46.3
20. 4. 42	27	30	4	56.5	28.9			
−1. 13.	Oct 8	30	4	19.3	24.8	35	0	30.4
	Oct 9	30	4	63.0	10.0			
	23	30	4	30.2	31.9			
	30	30	4	30.1	32.5			
	Nov 2	30	4	39.3	40.6			

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1871phae.proj.1388R

20 Trapezium
20 6 40
+26 05

1871

Sept 25	15	2	47.3	16.1	3	37.4	4.6
Oct 8	15	2	10.4	11.0	3	59.2	61.3
9	15	2	8.7	5.5			
23	15	2	4.6	7.8			
30	15	2	7.2	3.7			
Nov 2	15	2	8.8	5.2			
5	15	2	30.7	23.0			

Last ✓

Q Aquilae
20 8 22
+14 48

Sept 25	30	0	52.0	24.7	35	0 47.9	19.5
Oct 8	30	4	11.8	16.9	35	0 11.2	16.6
9	30	4	51.7	56.3	mg.		
23	30	4	36.7	36.5			
30	30	4	17.9	19.0			
Nov 2	30	4	18.1	19.0			
5	30	4	21.7	18.6			

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1871phae.proj.1380R

α Capricorni
20 10 56
−12 57

1871 Oct 9	15	1	44.8	52.5	m	8.	
Sept 25	15	1	38.2	13.4	3	46.9	21.2
Oct 8	15	1	12.2	20.3	2	4.2	13.2
23	15	3	32.0	42.4			
30	15	3	27.0	32.0			
Nov 2	15	2	4.1	7.3			
5	15	3	53.3	53.2			

κ Cephei
21 32 5
+77 19

			Last 1st Transit				
Sept 25	5	0	20.2	43.5	0	40.3	59.3
27	5	0	3.9	23.6			
Oct 8	0	4	28.2	23.5	0	1.2	55.7
				Transit			
30	0	4	45.8	36.5			
Nov 5	0	4	49.4	35.0	Last a,		

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1871phae.proj.138R

β Capricorni
2ν 13 48
−15 12

Oct 16	30	3	2,7	11,9				
23	30	3	19,5	29,6				
Nov 2	30	4	4,9	7,8				
Nov 9	30	2	8.0	7.9				

BAC 7008
20 15 38
+38 59

Sept 25	20	3	41.4	8.0	4	39.1	5.7
Oct 8	20	3	31.0	33.0	4	0.9	1.9
Oct 9	20	3	21.0	23.6	4	2.9	6.0
22	20	3	26.7	29,3			
23	20	3	14.9	18.0			
29	20	3	11.7	9.0			
30	20	3	45,8	43.7			
Nov 5	20	3	20,6	8,9			

Rest ~~F~~

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1871phae.proj.1380R

χ Cygni
h 19 41
+39 50

(47) Oct 16	30	2	24.7	27.2				
Sept 27	30	2	47.1	12.9				
	30	30	2	246	220			
Oct 8	30	2	15.6	16.1	3	4.0	5.9	
9	30	2	11.8	15.2	3	3.4	5.8	
22	30	2	18.2	18.8				
23	30	2	16.7	20.3				
30	30	2	16.5	12.6	hvy *			
Nov 5	30	2	21.5	14.3				
9	30	2	30.3	28.1				

(6)

η Capricorni
h 19 56
−18 39

Oct 8	55	4	31.1	38.2	0	0	20.9	31.0
9	55	4	25.6	37.6	0	0	16.2	27.0
			mid gr					
15	0	0	26.9	41.5				
23	55	4	30.3	40.8				
			mids					
29	0	0	3.9	10.2				
30	55	4	46.0	51.0				
Nov 2	0	0	22.2	26.3				
5	0	0	8.9	10.4				
9	55	4	34.0	34.5				

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♑ Capricorni

20 21 33
−18 15

Oct 9	35	0	47.8	57.5	1	39.7	49.1	
16	35	1	31.0	46.0				mod gr
22	35	1	36.2	44.0				mod gr
28	35	1	16.0	25.2				m gr.
30	35	1	9.5	13.7				
Nov 2	35	1	40.1	43.8				
5	35	1	30.3	31.9				
9	35	1	27.4	26.9				
1								

41 Cygni

20 24 11
+29 57

Sept 30	25	1	29.7	25.3				
Oct 8	25	1	24.1	32.0	2	23.0	23.0	
9	25	1	36.1	38.2	2	28.7	29.1	
15	25	1	30.4	35.7	2	20.6	25.9	
16	25	1	37.1	39.8				
22	25	2	8.3	10.4				sfol mod gr
29	25	1	29.4	26.3				
30	25	1	30.0	26.8				
Nov 5	25	1	38.7	30.4				
9	25	1	38.1	30.2				

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1871

ε Delphini
20 27 06
+10 52

Sept	30	30	0	35.0	35.3			
Oct	8	30	0	33.0	37.8	1	29.2	32.2
	9	30	0	33.0	39.6	1	27.6	34.1
	15	30	0	48.4	58.8	1	35.3	46.3
	16	30	0	25.8	35.0			
	22	30	0	28.4	35.0			
	23	30	0	29.6	46.6			
	24	30	0	32.0	34.6			
Nov	2	30	0	33.0	37.0			
Nov	5	30	0	37.2	33.4			

ζ Delphini
20 29 19
+14 14

Sept	30	5	3	44.2	50.3	4	45.2	50.4
Oct	8	5	3	41.2	48.0	4	42.3	53.9
	9	5	3	49.4	60.3	4	47.0	56.7
	15	5	3	49.7	55.9			
	16	5	4	27.5	27.8			
	21	5	3	46.2	53.0			
	22	5	3	45.0	51.0			
	23	5	3	43.9	45.0			
	24	5	3	43.3	45.3			
	30	5	3	46.2	46.1			
Nov	2	5						

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β Delphini ✓ 1871

20 31 32
+14 09

Oct 8	10	3	38.4	43.9	4	33.2	38.2
9	10	3	37.2	44.1	4	40.3	46.9
15	10	3	48.0	57.2	4	37.3	47.2
21	10	3	44.7	44.9			
22	10	3	45.8	52.0			
23	10	3	42.7	49.8			
24	10	3	41.8	43.6			
30	10	3	42.1	42.1			
Nov 2	10	3	45.1	45.4			
7	10	3	48.2	43.2			

α Delphini ✓

20 33 42
+15 28

Oct 8	55	0	2.4	6.2	1	1.3	6.3
9	55	0	-0.2	5.9	1	4.8	12.2
		a² repeat					
15	55	0	4.3	13.8	1	1.2	11.0
16	55	0	~~5.4~~	11.9			
22	53	0	9.2	14.2			
23	55	0	10.4	16.3			
24	56	0	4.1	6.2			
30	52	4	60.7	60.2			
Nov 2	55	0	3.3	1.3			
7	55	0	1.2	!!!			

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1871

α Cygni
20 38 06
+44 49

Sept 27	30	4	22.7	49.0				
30	30	3	54.6	50.0				
Oct 9	30	4	28.9	30.2	4	53.2	54.9	
15	30	3	49.2	53.9	4	42.2	46.8	
16	30	3	51.7	52.7				
23	30	3	56.4	58.4				
24	30	3	49.1	45.0				
30	30	3	58.1	52.2				
Nov 2	30	4	42.2	36.7				
7	30	4	1.2	50.0				

ε Cygni
20 41 0
+33 29

Oct 9	50	3	52.1	52.7	4	[illegible]	28.5	
Sept 27	50	4	7.7	34.8				
		middle of set						
30	50	4	20.7	17.1				
Oct 5	50	3	31.2	35.8	50	4	29.2	28.8
Oct 16	50	3	33.1	37.7				
21	50	3	29.9	36.5				
29	50	3	30.2	28.8				
30	50	3	31.1	32.6				
Nov 2	50	3	45.1	42.8				
7	50	3	45.1	35.6				

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β Cephei
20 42 48
+61 19

1871

Sept 28	15	2	13	30.8	2	41.8	15	
Oct 5	0	3	20.8	20.0	3	56.6	58.7	
Oct 9	0	3	22.4	19.0	3	58.9	57.3	
Oct 16	0	3	14.2	13.9	4	4.7	5.4?	
23	0	3	20.5	19.5				
30	0	3	42.2	35.4	Rej 1st ✓			
Nov 2	0	3	45.3	36.9				
7	0	4	0.2	44.3				
9	0	3	5.2	5.2.8				

μ Aquarii
−9° 29
20 45 44

Oct 9	45	4	57.7	59.7	50	0	44.4	5.2.4
Sept 28	50	0	36.7	7.5	1	30.2	2.8	
			Stol middle					
30	50	0	37.1	41.2				
21	45	4	46.9	60.1				
23	50	0	37	13.3				
29	45	4	51.2	56.9				
30	50	0	3.2	5.0				
Nov 2	45	4	54.0	56.1				
7	50	0	3.6	0.3				
9	50	0	1.2	0.2				

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32 Cygni
2) 49 05
+27 33

1871 Oct 9	45	3	38.1	38.8	4	36.1	38.9	
Sept 28	45	4	21.3	45.1	50	0	100	33.5
30	45	3	52.9	50.1				
Oct 5	45	3	43.4	46.5	4	40.2	43.8	
21	45	3	40.8	37.0				
22	45	3	43.2	45.0				
23	45	3	45.0	48.2				
24	45	3	44.1	44.4				
Nov 2	45	3	47.2	41.8				
7	45	3	56.2	46.7				

2 Cygni
20 52 25
+40 40

Sept 23	40				4	1.7	3	64.0
28	40	3	19.0	44.2	4	11.4	36.1	
30	40	2	45.2	42.0				
Oct 5	40	2	42.2	45.3	3	25.0	32.9	
Oct 9	40	2	35.8	87.6	3	26.5	38.1	
21	40	2	41.7	37.5				
22	40	3	16.8	18.0	8 fol			
23	40	2	58.3	24.6				
24	40	2	45.2	43.6				
Nov 2	40	2	50.8	46.2				
5	40	2	48.3	41.0				

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1871phae.proj.13802

B.A.C. 7294

20 54 24
+49 57

1871 Oct 9	25	0	26.4	24.3	1	15.1	12.0
Sept 23	30	1	8.0	30.5	1	45.5	8.1
27	25	0	35.0				18.3
Oct 8	25	0	26.8	23.1			
21	25	0	28.4	22.2			
23	25	0	44.6	44.7			
24	lost	49°	Struck 5th out				
Nov 2	25	1	17.0	9.0	last		
5	25	1	30.5	19.4			
7	25	0	33.2	19.1			
9	25	0	33.3	21.8			

η Capricorni
20 57 01
−20 22

Sept 23	40	3	45.2	15.1	
30	40	3	10.3	15.2	
~~Oct 4~~					~~last~~
Oct 8	40	3	60.3	10.2	
Oct 23	40	3	17.9	28.9	
29	40	3	5.2	11.2	
Nov 2	40	3	14.0	17.5	
7	40	3	14.3	11.4	
9	40	3	15.8	20.2	

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1871phae.proj.1380R

α Ursæ Maj. 46. 1876

20 58 44
112 20

Oct 9	5	0	+0.2	+8.1	4 57.1	0.2
21	5	1	10.5	−1.0		
22	5	0	13.3	9.3		
23	5	0	8.3	6.1		
Nov 5	5	1	3.8	47.0		
18	5	1	6.0	(49.6?)		

δ fal midges
mid ≈ fal.

61 Cygni

21 01 06
+38 07

Aug 23	15	1	32.6	0 60.5	2 25.0	4.4
30	15	0	38.4	54.0		
Oct 5	15	0	57.2	0.0	1 54.6	57.4
Oct 8	15	0	53.3	56.5		
9	15	0	57.1	52.0	1 47.3	49.0
21	15	1	37.0	33.0		
29	15	0	54.5	57.4		
Nov 2	15	1	0.4	55.8		
7	15	1	3.0	56.4		
9	15	0	59.0	57.0		
13	15	1	46.3	39.0		

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1871phae.proj.1386R

1871

γ Cygnei	Oct 9	45	0	38.0	44.0	1	33.1	38.1
21 04 04	Sept 28	45	1	14.5	44.0		11.3	41.2
+9 37	27	45	1	10.7	40.3			
	30	45	0	535	520			
	Oct 4	30	0	38	54	1	57.6	30
	Oct 8	45	0	37.5	39.9	1	31.4	35.1
	Nov. 21	45	0	42.8	44.8			
	23	45	0	46.2	52.5			
	29	45	0	35.9	37.3			
	Nov 2	45	0	43.2	41.7			
	13	45	1	5.5	−1.0			
ζ Cygni	Sept 23	40	1	~~25.2~~	~~50.3~~	2	18.0	43.5
21 7 29	Oct ~~Oct~~ 23	40	0	54.7	54.2			
+29 42	Sept 27	40	1	27.8	52.9			
	28	40	1	33.5	57.1			
	30	40	0	56.2	51.3			
	Oct 4	40	0	47.8	48.5	1	50.4	51.6
	Oct 8	40	0	49.7	48.8	1	44.2	44.2
	Oct 9	40	0	47.8	49.1		49.1	51.0
	21	40	0	45.0	44.0	2	48.0	45.7
	22	40	0?	52.2	54.6	~~3~~	~~45.3~~	~~47.~~
	29	40	1	52.6	49.7			
	Nov 7	40	0	56.8	43.9			

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1871phae.proj.1380R

τ Cygni 471
21 9 41
+37 30

Oct 9	50	2	3.8	4.7	1 4.4	4.8	5.8
Sept 23	50	3	49.0	3 16.0	~~4 37.9~~		8.1
24	50	3	52.2	18.0			
25	50	3	4.9	12.8			
Oct 4	50	3	9.8	11.4	4	7.2	5-7.8
Oct 8	50	3	6.6	6.2	4	8.2	8.4
~~Oct~~ 21	50	3	11.3	7.8	4	4.9	2.3
~~Oct~~ 23	50	3	10.7	13.7			
24	50	3	11.6	8.7			
Nov 2	50	3	13.8	10.0			
7	50	3	19.3	8.7			

o Cygni
21 12 24
+38 52

Sept 23	30	2	11.3	1 36.8	3	0.7	2 25.9
24	30	2	8.4	36.2			
30	30	1	44.2	39.3			
Oct 4	30	1	42.9	44.3	Oct 1-		
Oct 8	30	1	33.1	33.0	2	35.1	34.0
Oct 9	30	1	41.1	42.7	2	28.1	29.0
21	30	1	31.2	28.0	2	28.3	24.2
22	30	1	36.6	36.5	2	31.8	31.2 VAR vc
24	30	1	41.3	38.2			
Nov 2	30	1	51.9	47.2			

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1871phae.proj.1388R

1871

α Cephei
21 15 36
+62 03

Oct 23	20	0	5[illegible]9	5[illegible]1				
Sept 23	20	1	48.0	4.0	2	26.8	1	49.7
24	20	1	48.4	7.6				
30	20	1	12.6	4.3				
Oct 3	20	0	59.0	58.0	20	4	44.6	44.3
Oct 4	20	1	1.9	59.0	2	49.9		47.2
Oct 5	A Rowe							
Oct 8	20	1	17.1	10.4		48.6		42.7
Oct 9	20	0	59.0	55.1	1	47.7		44.2
21	20	0	59.4	52.3	1	47.7		40.3
22	20	0	56.4	53.9	1	48.7		45.7
24	20	1	3.0	55.1				
Nov 2	20	1	9.1	53.6				

1D 2000 Hb	Sept 23	15		[illegible]	3	55.0		17.1
21 18 06 ~~9806~~	28	15	4	19.4	36.3			
9806 ✓				8 foll 3 wires + mid				
	30	15	3	33.2	21.4			
				lost 1st wire	and others			
	Oct 3	15	3	42.0	37.9			
	Oct 4.	15	3	41.0	35.0	M 8	21.1	16.2
				M gr				
	5	15	3	38.5	35.2	3	23.8	19.0
	Oct 8	15	3	37.2	29.9	3	8.7	06 Cond
lost 8 Hsts.	9	15	3	40.6	34.8	3	23.2	18.0
	21	15	3	43.6	32.5	3	26.1	16.2
	22	15	3	38.5	32.9	mg. 3	15.3	9.5
	29	15	3	17.3	13.6			
	Nov 7							

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1871phae.proj.1380R

b Capricorni 1871

21 21 29
– 22 22

Sept 23	40	8	48.1	32.8			
27	40	3	45.4	16.2			
28	40	3	5-27	24.3			
Oct 3	40	3	35.0	44.6			
21 ~~Oct 4~~ 21	40	3	16.1	22.8	4	6.5	13.3
Nov. 9	40	8	16.7	16.7			
13	40	3	19.7	19.8			

24 Ons May'
21 22 56
109 36

Sept 30	50	0	5.3	5.23			
Oct 8 ~~Oct 4~~	45	4	25.0	15.0	10.6	5.0	
Oct 22	45	4	58.5	50.9	4 12.1	4.0	
Nov 7	50	0	15.3	-6.0			
13	45	4	30.3	13.9			
28	50	0	20.0	-2.8			

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1871phae.proj.138GR

β Equarii
21 24 46
−6 08

Oct 4	30	0	25.0	33.1	Oct 4	35.1	31.1
~~Sept 23~~	~~30~~	~~1~~	~~43.6~~	~~15.0~~			
24	30	0	50.3	21.8			
Oct 23	30	0	15.1	22.7			
Nov 1	30	1	15.9	11.5			
9	30	0	25.2	23.0			
13	30	1	7.2	4.3			
19	30	0	28.2	26.7			

β Cephei
21 27 07
+70 00

Sept. 23	25	0	11.0	20	4 31.0	25	0 20.2 40.5
30	20	4	6.2	57.8			
Oct 3	20	3	52.7	51.2	4	28.3	26.9
Oct 4	20	4	27.7	25.1	4	35.7	32.3
Oct 8	20	4	8.8	2.9	4	43.7	38.0
22	20	3	50.3	46.2	4	32.3	28.9
31	20	4	29.8	23.2			
Nov 2	20	3	56.7	46.6			
5	20	4	1.2	49.6	4	52.0	40.4
7	20	4	49.1	34.7			
9	20	4	6.8	3 54.7			

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1871phae.proj.1380R

ε Cygni
21 29 10
+45 02

1871 Oct 6	20	1	57.9	49.9	2	26,6	35,4
31	20	2	34.1	31.1			
Nov 5	20	2	27.1	18.8			
7	20	2	31.1	19.1			
13	20	1	46.7	38.1			
19	20	1	54.8	46.3			
28	20	1	57,5	43.0			

ε Aquarii
21 30 58
−0 27

Oct 22	45	2	57,6	55,9	3	57,4	60,2
31	45	3	47,8	53,2			
Nov 7	45	3	1,2	57,3			
13	45	2	53,4	52,0			
19	45	3	36,4	35,3			
28	45	3	47,3	1,1			

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1871phae.proj.1388R

1871	Oct 22	35	1	15.4	23.0	5 6	14.0	
	Sept 23	35	1	47.1	19.4	2 4.50		20.9
	30	35	1	8.7	11.1			
	Oct 3	35	1	11.9	23.0	2 26.3		24.2
	Oct 4	35	1	8.0	16.4	2 0.2		9.3
	Oct 8	35	1	6.3	12.5	2 0.5		8.0
	Nov 5	35	1	9.2	9.7	1 58.3		58.8
	19	35	1	16.1	15.9			
	28	35	1	5 9.3	54.0			
	Dec 6	35	1	8.0	58.0			

x Capricorni	Sept 23	45	4	20.5	5 38			
21 35 26	Oct 4	45	3	29.6	37.9	4 25.1		35.0
−19 27	Oct 8	45	3	33.6	40.7	4 28.8		38.0
	Oct 22	45	3	35.3	43.0	4 27.9		36.0
	Nov 5	45	3	34.7	34.2	4 20.4		19.6
	7	45	3	41.6	38.2			
	9	45	3	37.1	36.9			
	19	45	4	28.4	27.2			
	28	45	3	33.9	29.0			

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1871phae.proj.1380R

1871

ε Pegasi
2.1 3753
+9 17

Oct 22	5	0	22.4	27.5		17.2	22.5	
Sept 23	5	0	5.71	26.5		15.9	27.9	
27	5	2	52.3	22.3		δ fol		
30	5	0	24.0	23.3				
Oct 3	5	0	16.6	25.7		17.3	25.7	
Oct 4	5	0	15.7	21.3		16.4	22.1	
Oct 8	5	0	21.2	24.4		17.3	21.2	
16	5	0	20.0	25.8		12.3	18.0	
Nov 5	5	0	22.2	18.2		22.0	19.2	
7	5	0	30.6	23.3				
28	5	0	35.7	24.7				

ζ Capricorni
2.3959 ~~16 42~~
—16 42

Oct 22	0	4	18.6	27.0	5	0	13.2	21.7
Oct 16	0	4	10.5	20.2	5	0	6.5	17.4
Nov 5	0	4	17.5	17.1	5	0	20.9	19.8
9	0	4	18.6	18.9				
19	0	4	21.9	21.2				
28	0	4	27.6	21.8				
Dec 5								

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1871phae.proj.1386R

11 Cephei	1871	Oct 8	morn.	40	0	4 9.7	44.7	4	10.7	11.1
21 40 04		31		40	0	22.1	16.3			
+70 43	5.0	Nov 7		40	1 (2)	53.3	37.4			
		Dec 6		40	0	58.0	35.3			
π_2 Cygni		Oct 4		40	0	16.3	16.4	1	10.5	8.0
21 42 03		Oct 8		40	0	10.6	5.7	1	11.3	7.7
+48 43	5.0					bk stars				
		16		40	0	11.8	12.0	1	7.8	7.4
		22		40	1	0.9	59.9			
		31		40	0	56.5	51.7			
		Nov 5		40	0	23.3	12.9	1	9.9	58.7
		9		40	1	12.0	57.7			
		9		40	0	45.4	34.0			
		28		40	1	12.8	56.2			
		Dec 6		40	1	10.0	48.2			

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1671phae.proj.1386R

14 Pegasi	1871	Oct 8	45	3	15,7	13,8	13,7	11,3	
21 43 59		Oct 22	45	3	18.7	17.9			
+29 35		23	45	3	33.0	36.2	4	10.2	14.8
		31	45	3	22,7	21.9			
		Nov 5	45	3	16.5	10.2	4	23.0	16.0
		7	45	3	16,3	6,4			
		9	45	3	24,0	16,1			
		15	45	3	25,3	15,7			
		28	45	3	30,1	17,5			
μ Capricorni		Oct 4	30	1	6,0	14,9	2	6,2	15,3
21 46 18		8	30	1	11,3	18,9	m gr.		
−16 09	60	22	30	1	13,2	21,5	2	17,1	25.7
		23	30	1	18.2	28.8			
		Nov 5	30	1	14.2	16.2	2	11.5	11.2
		7	30	1	19,4	18,0			
		9	30	1	13.3	11,4			
		28	30	1	20,2	13,7			
		~~Dec 6~~	~~30~~	~~2~~	~~7,3~~	~~5,9~~			

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1871phae.proj.1386R

16 Pegasi 1871
21 46 12
+25 19 5.7

Oct. 6	0	3	39.0	35.5	28.4	29.3
16	0	3	32.0	36.4	0 4 22.3	26.0
23	0	4	14.9	18.3		
31	0	3	82.7	32.6	m gr. only.	
Nov 7	0	4	25.4	17.0		
15	0	3	40.1	32.7		
Dec 5	~~0~~	4	35.5	22.0		

B.A.C. 7636
21 48 52
+55 36 6.0

Oct. 6	45	2	21.0	16.1	49.1	44.7
16	45	2	10.2	10.2	42.4	42.2
22	45	1	56.8	56.8		
23	45	2	27.7	28.2	2 44.0	44.0
31	45	2	30.4	26.2	m gr.	
Nov 5	45	2	4.3	53.0	2 47.3	35.9
7	45	2	40.9	27.0		
9	45	2	3.7	51.4		
~~15~~						

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1871phae.proj.1380R

ν Aquarii	1871	Oct 4	20	3	13.0	10.8	4	4.0		14
21 60 37		8	20	3	19.1	14.8	4	2.5		2.0
~~15 00~~	5.6	16	20	3	16.7	15.4				
−2 56		31	20	3	5.86	5.21				
56 00		23	20	3	15.3	16.0	3	58.9		58.5
		Nov 5	20	3	20.2	9.4	3	0.3		48.2
		9	20	3	32.1	20.3				
		19	20	3	48.0	36.2				
		26	20	3	19.9	3.9				
		Dec 5	20	3	26.2	7.6				
η Piscis Australis		Oct 4	20	4	36.0	43.4	25	0	32.6	40.0
21 58 25		Oct 22	20	4	43.4	50.2	25	0	36.4	42.9
−29 04 50		29	20	4	38.9	37.7				
		Nov 5	20	4	41.9	39.3	25	0	36.3	36.0
		9	20	4	42.8	45.4				
		12	20	4	39.8	35.1				
		19	20	4	44.3	42.3				
		26	25	0	24.9	16.3				

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1871phae.proj.1388R

o Aquarii
21 56 39
−2 46 (5°)

1871 Oct 4	5	3	45.8	55.0	4	46.0	54.0
						0 42.3	
8	5	4	39.9	45.9			
22	5	3	44.0	51.8	4	48.5	54.4
23	5	3	43.2	52.2	4	52.9	61.0
24	5	3	47.0	50.2			
31	5	3	44.6	49.0			
Nov 5	5	3	52.8	50.8	4	44.0	42.2
9	5	3	49.6	47.9			
12	5	3	48.3	43.7			
28	5	3	53.5	47.0			

α Aquarii ✓
21 5-910
−0 57 (3.0)

Oct 4	15	3	53.0	60.6	4	46.8	54.7
8	15	3	50.9	56.1	4	47.9	57.7
16	15	3	53.7	06		53.4	58.2
22	15	3	58.1	3.1		59.8	66.2
29	15	3	56.1	58.7			
31	15	3	54.8	59.0			
Nov 5	15	3	55.2	53.3	4	57.1	55.3
7	15	3	57.4	52.0			
9	15	4	2.5	0.3			
19	15	4	56.1	53.3			
28	15	4	5.1	−2.9			

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1871phae.proj.1388R

i Pegasi ✓ 1871

22 01 00
+24 43 (4.0

Oct 4	35	4	48,6	50,2	40	38,7	41,0	
Oct 8	35	4	44,7	44,9	0	42,3	43,4	
16	35	4	45-5	48,6	40	0	32,1	35,0
22	35	4	50.3	51,8	40	0	35,4	38,0
24	35	4	49.3	45.8				
31	35	4	51.3	49.7				
Nov 5	35	4	52.2	44.3	40	0	42.9	35.0
7	35	4	53,4	43,9				
9	35	4	51,2	44,7				
12	40	0	41.0	30.4				
19	35	4	52,9	45,7				

δ for

Φ Pegasi ✓

22 08 44
+5 24 (4.0

Oct 4	45	3	25,7	31,3	4	29,3	34,9	
8	45	3	25,2	33,9		35,6	38,7	
16	45	3	26,2	32,5	4	22,5	27,2	
22	45	3	27,9	33,7		36,0	41,0	
24	45	3	28.2	29,5				
31	45	3	42,7	48,6				
Nov 5	45	3	36.3	31.4	4	28.9	23.7	
7	45	3	37,2	30.0				
9	45	3	36,4	33.0				
19	45	3	34,9	33,1				

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1871phae.proj.1386R

ζ Cephei 1871	Oct 4	45	4	20,6	18,4	11·8	21,1	20,7
22 06 28	8	45	4	22,5	18,3		25,5	22,0
+57 34 (40)	16	45	4	19,1	17,0	50	0	11,4 · 10,1
	29	45	4	19.0	12.3			
	31	45	4	14.0	8.9			
	Nov 5	45	4	23.0	11.8	50	0	16.1 5.8
	7	45	4	25,2	11,1			
	9	45	4	23,1	11,5			
	12	45	4	22.9	8.0			
	19	45	4	33,8	21,6			
	22	45	4	23,3	13,2			
B.A.C. 7765	Oct 6	15	8	27 02 48		17,8	16,6	
22 08 22	22	15	8	24,0	23,6	4	19,6	20,9
+39 05 (52)	29	15	3	34.7	30.4			
	31	15	0	44,0	40,8			
	Nov 5	15	3	23,1	15,6	4	17.3	9,4
	7	15	4	25,2				
	9	15	8	31,3	22,1			
	19	15	4	9,4	−0,2			
	22	15	3	31,6	23,2			

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1871phae.proj.1386R

θ Aquarii	1871	Oct 4	45	2	33.8	44.0	3	26.1	31.4
22 10 04					Cont'd				
−8 25	(45)	8	45	2	25.8	32.5	3	13.1	19.8
		Oct 16	45	2	22.3	30.7	3	18.0	29.1
		22	45	2	21.2	29.5	3	24.9	33.0
		24	45	3	7.3	11.7		mid gr δ foc	
		31	45	2	45.3	50.3			
		Nov 5	45	2	26.2	23.2			
		9	45	2	35.5	34.2			
		19	45	3	15.9	15.7			
		22	45	2	30.8	31.1			
ζ Aquarii		Oct 8	50	0	−2.0	2.1	1	6.3	14.1
22 18 27		Oct 16	~~50~~	0	0.7	1.3	1	1.3	9.6
−8 28	(52)	24	50	0	3.8	5.7			
		31	50	0	~~−1.8~~	5.2			
		Nov 4	50	0	11.9	8.4	1	14.4	3.0
		9	50	0	15.2	15.0			
								mid gr δ foc	
		12	50	1	41.4	37.0			
		22	−50	0	9.0	10.3			
		23	45	4	5.8	5.1			

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1871phae.proj.138CR

J Aquarii ✓ 1871
22 15 02
−2 02 (8.0

Oct 8	25	0	−6.1	1.7	0	25.9	33.2	
16	25	0	6.7	13.0				
31	25	0	16.9	21.2	b-foil			
Nov 7	20	4	25.9	24.4	25	0	21.9	16.2
19	20	4	27.1	25.4				
22	20	4	31.7	31.2				
23	20	4	46.6	48.0				
28	20	4	38.5	26.7				
~~Dec 6~~								

B.A.C. 7803
22 16 36
+43 06 (6.0

Oct 29	15	2	21.3	16.3	
31	15	3	7.6	4.8	
Nov 9	15	3	13.5	3.8	✓ fol. var?
19	15	2	40.7	31.6	6.7 mag.
22	15	2	41.7	33.0	mp.
28	15	3	16.7	2.9	
~~7~~	~~15~~	~~3~~	~~40.3~~		
Dec 5	15	3	13.6	5.0	
6	15	3	18.4	00	8.1 mag

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1871phae.proj.1380R

3 Lacertae
22 18 82 –
+51 35

1871 Oct 8 45 3 13.3 10.2 3 59.2 57.9
1871 Oct 4 45 3 15.5 16.3 4 6.1 5.0
15 45 3 48.9 50.4 15.3
23 45 3 4.1 5.6 3 52.9 55.0
31 45 B 18.6 15.3
Nov 7 45 3 9.8 57.2 4 2.2 49.2
9 45 3 52.0 42.5
13 45 3 18.6 5.6
22 45 3 16.7 3.0
28 45 3 40.3 24.2
Dec 5 45 3 46.6 39.0

π Aquarii
22 18 49
+0 48 (4.5)

Oct 16 35 3 47.7 54.1 4 52.3 58.5
29 35 4 42.6 43.0 8 fol
Nov 12 35 3 55.7 49.8
19 35 3 58.1 55.2
23 35 3 54.0 54.8

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1871phae.proj.138OR

Z Aquarii
22 22 13 (40
-0 41

Oct 3 1871

1871 Oct 9 0 2 55.0 61.5
Oct 14 0 2 57.2 0.0
Oct 8 0 2 53:5 62.2 3 52.8 0.0
24 0 3 56.0 58.3 fine*
Nov 7 fine 0 3 2.7 58.0 4 58.2 51.2
12 mean 0 3 2.8 58.2
13 0 2 56.5 57.6
19 0 3 2.2 2.3
28 0 2 5-7.8 49.0
Dec 6 0 3 20.2 11.3

Y Draconis 46,
22 23 48
10 3 37 (45

Oct 8 45 3 3.8 55.8 2 46.4 41.0
9 cloud 45 3 7.6 59.0 45 2 46.5 40.0
16 45 3 24.2 19.6 2 31.8 26.3
31 45 3 17.4 8.6
Nov 9 45 3 7.2 58.2 2 36.2 19.8
19 45 2 50.1 32.2
22 45 3 28.7 14.3
23 45 3 16.2 1.1
~~28 45 1 57.1 58.2~~

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1871phae.proj.13803

β Pisc Aust. 1871 001-
22 24 13 1871
−33 00 (40

001-A

	20	0			40.0	49.3
24	20	0	37.9	35.0	mid gr δ fol	
Nov 12	20	0	49.3	43.2	mid gr δ fol	
13	20	0	40.1	36.7	mgr.	
25	20	0	42.5	39.4		
28	20	0	13.8	41.2		
Dec 5	20	0	−0.7	47.5		
6	20	0	57.5	40.3	Rej B A?	

α Lacertae
22 26 03
+49 36 (40

1871 Oct ✗

Oct 4	45	1	1.3	0.8	56.3	54.1
Oct 8	45	1	4.6	1.2	47.2	48.7
15	40	1	48.7	49.8	Contam of 1st wires	
16	45	1	34.5	38.1	42.2	44.3
Nov 2	40	1	32.5	23.2		
25	45	1	46.7	36.0	bad-a b?	
28	45	1	57.1	38.2		
Dec 5	45	1	59.5	39.0		

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1871phae.proj.1386R

η Aquarii ✓
22 28 46
−0 47 (3,4

1871
Oct 4 5 4 61.2 8.0 4 57.2 63.9
Oct 8 5 4 7.3 12.7 4 57.2 61.8
24 5 4 7.8 10.1
~~Nov 12~~ 5 4 11.3 6.2
13 5 4 10.8 7.7
22 5 4 6.0 5.0
23 5 3 5.8 5.4
25 5 4 9.2 7.6
28 5 4 14.3 6.1
Prec 20 ARoy

226 P Cephei
22 30 02
+75 34

Oct 9 45 4 58.2 53.2 50 0 46.7 31.6
Oct 22 50 0 34.2 31.9 M gr. bad a
31 50 0 16.0 9.0
Nov 2 50 0 0.2 −9.8 50 0 48.0 37.2
19 50 0 0.5 −14.8 b_2 2 too early
22 50 0 36.0 23.9 M gr.
23 50 0 35.0 22.0
25 50 0 36.0 23.7 bad abc a
Dec 5 50 0 48 −15.6
6 50 0 54.2 30.8
20 ARoy? Bad

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1871phae.proj.13808

1871

ε Ric Aur:

22 33 33

−24 43 (4.0

Oct 9	0	3	24.6	33.2	4	18.8	26.6
Oct 4	0	3	34.8	44.1	4	19.3	28.0
22	0	3	35.6	42.3	4	24.1	32.0
29	0	3	26.8	30.0			
Nov 2	0	3	28.4	30.2			
12	0	3	31.1	28.0			
13	0	3	29.7	27.1			
19	0	3	30.7	29.2			
~~28~~	0	3	34.9	33.8			
Dec ~~28~~	0	4	27.8	19.7			

ζ Ryasi ?

22 35 00

+10 10 (3.4

Oct 8	10	~~2~~	56.5	−0.0	3	46.7	49.5
9	10	2	56.8	61.0	3	45.0	54.0
31	10	2	55.6	58.9			
Nov 2	10	2	55.0	53.2	3	55.9	55.1
13	10	3	58.0	52.3			
22 ~~19~~	10	3	1.3	−2.3			
23	10	3	16.2	12.6			
25	10	3	3.2	−1.7			
28	10	3	49.1	38.6			
Dec 6	10	3	58.1	45.0			

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1871phae.proj.1386R

h Pegasi V 184	Oct 9	52	0	−0.6	+0.6	0	5~~2~~3	5~~3~~7
22 36 39	1871							
+29 33 (3.0	Oct 4	58	0	3.8	5.5		56.7	59.0
	Oct 8	50	0	0.0	57.5	0	53.2	53.6
	~~22~~	52	0	−6.8?	54.2?	0	4.9	57.5 (slight
	24	45	4	~~56~~.1	51.2			
	31	45	4	56.2	53.9			
	Nov 2	45	4	58.8	47.1	Rej ∫ fol		
	13	50	0	3.8	53.9			
	22	50	0	4.0	−3.5			
	23	50	0	1.0	−8.8			
	25	50	0	62.1	44.1			
	Dec 5	50	0	17.3	1.0			
13 Lacertae? V	Oct 8	10	4	38.0	37.9	15	0 27.1	27.2
22 38 22	9	15	0	18.8	20.3	∫ fol		
+41 09 (6.0	Oct 22	15	0	6.9	8.4	m.s.		
	Nov 2	10	4	23.8	19.1	15	0 19.6	15.7
	12	10	4	40.2	28.0			
	19	10	4	22.8	14.5			
	22	15	0	6.7	−0.2			
	28	10	4	28.3	15.0			
	Dec 6	10	4	48.1	30.4			

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1871phae_proj_13808

1871

λ Pegasi

22 40 22

+22 53 40"

1871 Oct 9	25	4	29.2	30.8	30	0	26.2	28.2
Oct 4	25	4	32.2	34.5	30	0	19.3	21.2
Oct 8	25	4	24.1	24.5	30	0	32.2	31.0
22	25	4	33.3	24.3	0		24.3	29.3
29	25	4	28.8	24.2				
Nov 2	30	0	14.6	8.2	m g. 2			
12	30	0	23.2	12.0	8 fol			
13	25	4	33.5	25.2				
22	25	4	35.0	26.8				
23	25	4	34.9	26.1				
25	25	4	30.6	23.5				

ι Pegasi V

22 43 50

+23 55 (4.0

1871 Oct 4	25	mid gr 8 fol			3	12.9	15.5	
Oct 8	25	2	25.3	26.2	3	12.0	12.9	
9	25	2	30.8	31.2	m gr.			
22	25	2	28.8	31.0	m gr.			
29	25	2	28.8	25.0	c			
Nov 12	25	2	38.3	27.5				
28	25	2	29.1	16.8				
DRC5	25	3	13.8	−1.8				
DRC6	25	2	39.8	21.8				
17	# R only.							

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i Cephei
22 45 08
+65 31 3,4

1871
Oct 9 50 2 15,7 10,9 2 55,9 53,9
22 50 2 23,8 20,0 2 58,0 53,7
Nov 2 50 2 12,0 1,0 2 58,0 46,0
23 50 2 11,1 -2,2
25 50 2 14,7 5,3
Dec 17 50 2 18,0 56,9
20 50 2 15,6 53,4

λ Aquarii
22 45 56
-8 16 (4,9

1871
Oct 4 35 3 32,9 42,8
Oct 8 35 2 50,3 57,1 3 39,8 47,0
Nov 28 35 2 58,0 50,2
Dec 5 35 3 2,7 54,0
6 35 3 10,8 0,8

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1871phot.proj.1386R

ζ Aquarii 1871

22 47 50
−16 30 (3.0

Oct 4	50	1	56.0	65.1	2	49.2	—
6	50	1	53.6	0.0	2	46.8	54.2
9	50	2	55.3	65.0	3	56.8	6.0
Nov 12	50	1	59.4	54.0			
23	50	2	1.8	−1.1			
25	50	1	54.7	53.7			
28	50	2	4.9	−1.8			
Dec 5	50	2	7.1	57.0			
17	50	2	12.0	3.2			
20	50	2	6.1	56.5			

α Piscium

22 50 33
−30 18 (1.2

Oct 4	~~35~~	3	30.8	37.8	4	27.0	33.3
8	35	3	29.0	34.3	4	16.4	22.9
Nov 12	35	3	33.2	26.9			
23	35	3	20.0	19.1			
25	35	3	33.6	30.2			
28	35	3	31.3	22.7			
Dec 6	35	3	28.0	16.2			
20	35	3	29.8	19.5			

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1871phae.proj.1380R

BAC 8002 1871

22 52 36

−30 09 (6.0

Oct 4	25	4	21.2	28.1	30	0	12.6	19.8
Nov 23	25	4	22,3	19.9				
25	25	4	25,3	23.0				
28	25	4	21,1	12,6				
Dec 5	25	4	22.9	13,8				
6	25	4	25.0	(13.2 ?)				

o Andom ✓

22 56 02

+41 38 4.0

Oct 4	45	0	2.4	5.2	0	55.2	57.8	
Oct 8	45	0	0.9	0.4	0	55.0	56.5	
24	45	0	1.0	−2.1				
Nov. 13	45	0	5,8	−3.0				
23	45	0	3,9	−4.5				
25	45	0	37.4	30.6				
28	45	0	46.8	33.2				
Dec 5	45	0	22,4	6.8				
6	45	1	4,2	(45.9 ?)				
17	45	0	7,4	−7.1				

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1871phae.proj.1388R

1871

α Leyani
22 58 23
+14 31 (2.0

Oct 4	50	1	53.2	0.0	2	44.7	50.2
8	50	1	48.2	52.0	2	36.2	40.1
15	50	2	32.7	40.6			
29	50	1	51.7	52.8			
Nov 12	50	2	52.0	44.5	8 fol		
13	50	1	57.2	51.3			
23	50	1	53.0	48.7			
25	50	1	54.4	50.3			
28	50	1	56.0	47.0			
Dec 5	50	1	55.8	49.7			
6	50	1	55.6	43.9			

53 Leyani
23 00 86
+8 43 (5.0

Oct 15	35	4	38.0	44.6
Nov 13	35	4	35.9	30.2
23	35	4	42.6	37.8
27	35	4	45.9	41.6
28	35	4	45.0	85.9
Dec 5	35	4	43.7	33.0
6	40	0	5.0	−8.8
17	35	4	42.1	30.9
20	40	0	57.7	(4) 38.0

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1871phae.proj.1380R

ζ_2 Aquarii 1871 Oct-3 35 4 38.6 44.7 Chronometer second hand.
23 2 36
−21° 5′ 2 (4.5

24	10	3	32.1	35.0
Nov 13	10	3	32.1	31.2
23	10	3	26.8	25.6
25	10	3	29.9	29.5
28	10	3	35.3	30.5
Dec 6	10	3	39.6	30.1
17	10	3	48.7	42.7
20	10	3	42.5	34.0

59 Aquarii
23 05 16
+8 01 5.6

Oct-3	20	1	14.3	21.2
29	20	1	13.7	14.1
Nov 13	20	1	20.3	14.2
23	20	1	15.3	10.2
25	20	1	13.7	10.1
Dec 17	20	1	20.6	9.6
21	20	1	20.7	7.0

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1871

ζ Aquarii
23 h 41
−6 45 (50

Oct 8	5	1	32.1	41.7			
9	5	1	34.2	41.3	2	33.2	40.4
29	5	1	40.1	41.9			
Nov 13	5	1	28.9	25.4			
23	5	1	42.0	39.8			
25	5	1	43.9	42.6			
Dec 6	5	1	48.6	37.0			
17	5	1	53.5	43.5			
20	5	1	45.6	35.0			

ζ Piscium
23 10 31
+2 35 (4.0

Oct 9	45	2	43.8	39.1	3	34.9	39.8
29	45	2	35.0	33.4			
Nov 13	45	2	35.3	32.9			
20	45	2	40.0	35.0			
25	45	2	44.6	35.0			
Dec 6	45	2	50.4	36.8			
17	45	2	42.6	35.5			
20	45	2	42.6	28.7			

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1871phae.proj.13862

ψ3 Aquarii 1871
23 12 17
−10 19 (5.0

Oct. 8	40	0	46.3	56.2	1	46.2	53.2
9	40	0	46.7	55.4			
29	40	1	20.7	25.2	δ fol mid gr		
Nov. 13	40	1	54.0	51.2			
23	40	0	57.1	56.6			
25	40	0	57.5	55.9	Add asterisk fol δ		
6	40	1	~~48.0~~	24.8			
12	40	1	48.9	43.3	B ⊂ C		
D 2 C 17	40	1	7.5	−0.2			
~~20~~	~~40~~	1	3.8	5−4.4			

τ Aquari
23 10 4 18
+23 02 (5.0

~~Oct 9~~	~~40~~	0	~~46.3~~	~~55.4~~	1	46.2	53.2
Oct 9	20	1	39.0	41.2	1	37.3	39.8
Oct 16	20	0	36.5	36.8	1	36.6	37.5
Nov. 13	20	1	35.2	24.8			
23	20	0	42.0	34.0			
25	20	0	46.8	38.0			
Dec 6	20	1	26.7	9.0			
12	20	1	37.4	23.0			
17	20	0	49.5	33.7			
20	20	0	45.0	32.0			

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1871phae.proj.13808

1871 Oct 9	10	0	5.7	14.2		1871		
							Sum	
ζ Aquarii								
23 16 14								
−20 48								
Oct 16	5	4	29.6	27.1	W	0	21.5	29.0
24	5	4	31.0	35.8				
Nov 13	5	4	41.1	38.7				
23	5	4	27.5	26.2				
20	5	4	39.1	38.1				
Dec 6	5	4	38.2	28.6				
12	5	4	49.8	43.3				
17	5	4	45.1	37.0				
20	5	4	42.8	38.0				
2 Pegasi	Oct 9	40	0	58.5	57.5	E	11.3	13.9
23 19 00	16	40	0	58.2	55.5	1	58.8	58.8
+22 42 50	24	40	1	4.5	59.8			
	Nov 13	40	1	2.7	67.5			
	23	40	1	5.4	57.3			
	25	40	1	8.1	−0.8			
	Dec 6	40	1	~~48.6~~	~~0.8~~			
		~~40~~	~~1~~	~~48.6~~				
	12	40	1	12.7	−1.0			
	17	40	1	11.1	−2.8			

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θ Piscium 1871	Oct 9	40	2	7.7	13.5	2:	58.2	47.
23 21 28	Oct 16	40	1	6.5	11.9	3	5–4.0	5–7.5
+5 40 (45	Nov. 13	40	2	6.1	0.5			
	23	40	2	7.3	3.0			
	25	40	2	22.5	18.0			
	~~Dec 6~~	40	2	12.2	-0.2			
	12	40	2	18.1	9.3			
	17	40	2	16.3	6.0			
λ Procv. Hc.	Oct 9	25	3	28.0	21.0	Micr 9r		
23 23 40	Oct 16	25	4	52.8	46.0	3	8.1	1.3
109 56	29	25	3	59.3	46.0			
	Nov 13	25	3	49.1	30.3			
	23	25	3	46.7	29.6			
	25	25	3	22.4	5.7			
	~~Dec 6~~	25	4	0.0(31	34.0			
	12	25	3	15.7	52.8			
	19	25	3	9.7	46.3			
	28	25	4	2.4	35.3			

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1871phae.proj.13802

6 Aquarii 1871	Oct 3	55	3	47.5	57.0			
23 26 34	16	55	3	38.4	48.0	4	40.2	49.0
−21 38 (50	29	55	4	39.4	44.1	8 fol		
	Nov 9	55	4	38.7	38.7			
	23	55	3	53.6	52.7			
	25	55	3	54.7	54.2			
	28	55	3	50.1	44.1	2?		
	Dec 6	55	4	0.5	50.0			
	12	55	4	0.2	55.1			
15 Andom	Oct 16	50	1	27.4	28.7	2	25.6	25.5
2328 22	Nov 9	50	1	30.4	22.1	2	24.8	16.8
+39 32 (5.6	23	50	1	44.9	26.2			
	25	50	2	13.4	39			
	28	50	1	33.9	18.0			
	Dec 6	50	2	21.4	2.5	6.2		
	9	50	2	10.9	56.0			
	12	50	1	38.3	25.4			
	28	50	2	23.5	6.2			

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1871phae.proj.1388R

χ Piscium 1871.
23 30 18
+0 32

χ Andromedæ	Oct-16	35	2	29,7	29.5	3	24.3 23.8
23 31 18							
+45 46 (4.0	24	35-	3	17.8	11.9	δ for midyr	
	Nov 9	35-	3	6·3	56.4	3	29.5- 17.4
	23	35	2	40,8	30.3		
	25	35	3	19,2	9.2		
	28	35	2	47,7	32.0		
	Dec 9	35	2	41,8	27.0		
	12	35	2	39,7	25.0		
	17	35	2	37.0	19.2		
	28	35	2	38,0	19.0		

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ι Piscium ✓ 23 33 19 +4 56	4.5	1871 Nov 23	25 1	41.8	37.2	15:	
		Dec 6	25 1	57.0	38.0		
		9	25 2	37.7	27.0	B v @	
		12	25 1	42.3	31.8		
		20	25 1	52.0	37.3		
π Cephei ✓ 23 34 05 +76 55	3.0	Oct 16	25 4	5.1	59.2	51.9	46.5
		Oct 24	25 4	18.7	8.8	mid gr	
		Nov 25	25 4	6.2	51.1		
		28	25 4	25.0	4.0		
		Dec 17	25 4	4.6	43.4	A B c	
		20	25 4	51.9	28.0		
		28	25 4	10.3	46.0		

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1871phae.proj.13808

i Aquarii
23 37 34
+1 00 (5.0

1871	Oct-16	20	0	52.2	12.1	45.9	54.7
	29	20	0	55.6	58.7		
	Nov. 28	20	1	3.1	54.6		
	Dec 6	20	1	10.2	54.0		
	9	20	1	10.6	3.7		
	12	20	1	3.2	56.4		
	17	20	1	58.7	50.3		
	20	20	1	4.8	54.0		
	28	20	1	12.2	3.4		

v fve

α Andromedae
23 39 42
+45 42 (5.0

	Oct-16	40	0	49.2	48.8	1 44.0	43.1
	29	40	1	34.8	3.2	δ fve	
	Nov 9	40	0	53.2	45.0	1 43.2	33.2
	28	40	1	1.8	44.6		
	Dec 6	40	1	56.8	37.6		
	9	40	0	57.2	41.8		
	12	40	0	54.2	39.7		
	19	40	0	54.4	38.0		
	20	40	1	0.3	41.6		
	28	40	1	0.6	42.1		

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1871phae.proj.13803

S Sculptoris ?	1871								
23 42 16	Nov 9	10	0	56.7	53.9	1	54.1	47.3	
−28 51 14.5	Dec 6	10	1	50.1	38.2	sum			
	9	10	0	59.5	50.1				
	12	10	1	42.2	33.6				
	17	10	2	4.6	54.0	(2.1	∫ fol		
	20	10	1	9.7	55.6				
	28	10	1	0.6	49.2				
B.A.C. 8289	Oct 16	25	3	47.6	45.2	4	46.8	44.5	
23 43 57	29	25	3	55.3	47.4				
+50 54 (6.0	Nov 7	25	4	3.0	48.9	4	44.3	30.3	
	9	25	3	53.2	41.2	4	50.6	38.8	
	Dec 6	25	4	33.2	12.4				
	9	25	4	45.0	27.4				
	20	25	4	48	43.9				
	28	25	4	43.1	23.2				

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ψ Pegasi	Oct 16	55	3	22.9	28.0	4	15.3	20.1
23 45 57	Nov 7	55	3	25.4	18.8	4	18.2	10.0
+18 24 60	9	55	3	25.3	20.6	4	22.3	17.5
	Dec 6	55	3	40.6	27.0			
	9	55	4	15.3	4.0			
	12	55	3	27.0	17.7			
	17	55	3	26.9	14.1			
	20	55	3	04.6	~~[illegible]~~			

Q Cass	Oct 16	35	1	28.6	26.4	3	2 14.1	10.8
23 47 57	Nov 7	35	1	27.1	13.6	2	20.4	6.0
+56 47 60	9	35	1	26.9	15.8	2	19.0	6.2
	28	35	1	28.8	9.9			
	Dec 6	35	1	34.7	13.0			
	9	35	2	6.2	4.3			
	12	35	1	30.8	14.0			
	17	35	2	13.3	5.3			
	20	35	1	36.0	14.0			

mag.

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1871phae.proj.1380R

1871

B.A.C. 8342

23 50 42

+5 4 58 6.0

Nov 2	20	3	5 37	44.0	4 45.4	36.7
	20	3	54.8	44.3	4 48.1	32.3
Nov 7	20	3	56.4	43.8	4 52.3	41.0
9	20	4	2.5	43.9		
28	20	4	2.5	43.9		
Dec 6	25	0	−8.5	(4)2.7		
9	20	4	~~7.8~~	49.0		
12	20	4	1.2	43.7		
17	20	4	2.2	44.6		
20	20	4	6.0	47.4		

α Piscium

2 35 2 44

+6 0 9 4.0

Nov 2	10	3	25.7	23.0	4 17.5	16.4
Nov 7	10	3	20.8	15.6	4 22.0	20.7
9	10	3	24.2	22.9	4 30.7	26.2
Dec 6	10	4	9.9	−2.5	?	
9	10	3	3.0	24.2		
12	10	3	27.6	18.8		
17	10	3	28.2	26.2		
20	10	3	3.3	19.6		

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1871phae.proj.13802

20 Piscium 1871

23 6 5 24

−6 44

Nov 2	5	0	6-29	5-26	1	4,7	4,5
19	5	1	9.1	6.8			
Dec 6	5	1	46,9	36,3			
9	5	1	50,2	41,3			
17	5	1	0,1	51,2			
20	5	1	0,4	47,5			
28	5	1	1.0	49.9			

2 Ceti

23 57 10

−18 03

Nov 2	~~20~~	4	41,0	47,2	25-	0	34,1	35,7
27	20	4	48,7	44,7			
Dec 9	25	0	35,1	27,1			
17	20	4	55,5	40,2			
20	25	0	−5,1	42,6			
28	20	4	5-24	41,6			
	~~25 3~~		~~26 5~~				

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1871pnae.prdj.1386R

33 Piscium
23 58 47
-6 27

1877 Nov	2	45	2	45.8	45.7	46.7	45.3
	19	45	2	56.3	53.9		
Dec	9	45	3	30.6	20.7		
	17	45	3	7.5	-2.2		
	20	45	3	38.9	27.1		
	28	45	3	26.5	14.3		

α Andron.
0 1 31
+28 23

Nov	2	0	0	10.9	4.5	1 6.8 5.0
	19	0	0	9.7	0.2	
	22	0	0	11.7	1.6	
	29	0	1	8.2	51.0	5 feet light wanting
Dec	6	0	0	19.0	57.0	22.2 1 02.2
	9	0	0	13.1	-1.8	
	12	0	0	8.6	-5.4	
	18	0	0	6.2	+0.8	
	20	0	0	14.0	5.2	
	28	0	0	14.8	-8.7	
1878 Jan	2	0	0	19.4	1.3	

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1871phae.proj.1380R

22 Andromedae
0 3 37
+45 21

1871

Nov 2	0	1	5-2,5	45,2	21	45,1	8,9
19	0	2	1,0	-9,4			
22	0	7	5-5,8	45,0			
Dec 6	0	1	3,0	43,6	25	1,3	30,5
9	0	1	5-7,2	40,2			
12	0	2	2,5-	46,1			
17	0	1	58,1	42,1			
20	0	2	7,8	47,8			
1872 Jan 2	0	2	3,8	44,9			

4 D2000 Lb,
0 6 08
10 1 39

Nov 22	45	0	5-2,4	47,5-			
Dec 6	45	0	37,6	10,6	C_2 ?	45	0 1,1 33,7
9	45	0	8,6	45,1	Comet $\frac{6}{2}$ $\frac{2}{2}$		
17	45	0	29,7	8,8			
20	45	0	5-2,0	33,4			
28	45	0	0 ? (4)	34,0	B vc Tabulæ		
1872 Jan 2	45	0	58,1	(4) 34,4			

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1871phae.proj.1386R

	1871 Nov 2	12	4	38.8	36.8	55	0	30.7	25.0
J Pegasi										
0 6 38	19	50	4	30.1	25.4					
+14 28	Dec 12	50	4	41.8	32.0					
35 Piscium	Nov 2	15	1	10.0	7.0	15	2	11.1	9.1	
0 8 22	22	15	1	16.2	17.8					
+8 06	29	15	2	14.8	2.7	8 fol				

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1871phae.proj.1388R

1871

O Andromedae
0 10 30
+37 57

Nov 2	25	0	8,9	2,7	0	5 9,0	5 2,1
22	25	0	5,7	−4,1			
Dec 28	25	0	43,2	26,0			

ι Urs. Min.
0 12 56
−9 32

Nov 2	50	4	17,1	10,1	0	15,2	18,9
Dec 6	50	4	23,7	13,6			
9	50	4	20,2	12,9			
20	50	4	32,0	19,3			
28	50	4	26,2	16,0			

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1871phae.proj.13802

1871

: Sculptoris
0 15 05
−29 42

Nov 19	0	2	26	−2.0	
Dec 5	0	2	31.0	18.8	
6	0	2	36.4	24.0	8 fold midge
9	0	2	4.6	54.0	
28	0	2	33.8	21.4	

12 Cass.
0 17 24
+61 06

Nov 19	15	1	25.0	11.1
29	15	1	32.7	13.4
Dec 5	15	1	277	
6	15	1	32.2	9.9
9	15	1	37.7	20.0
20	15	1	25.8	6.8

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1871phae.proj.138ER

B.A.C. 103
0 21 36
−3 8 44

1871

Nov	2	0	2	35.0	23.9	8	30.3	30.4
	29	0	2	35.7	24.6		Mid for fast out	
Dec	5							
	6	0	2	32.2	19.1			
	9	0	2	86.6	26.0			
	20	0	3	23.2	0.7			

12 Eri
0 23 30
−4 41

Nov	2	0	2	19.2	15.4	0	13.9	12.1
Dec	5	0	2	25.7	15.7			
	20	0	3	10.9	5.0			
	28	0	2	25.7	13.1			

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1871phae.proj.1380R

K bau
0 25 42
+62 12

√1871

1871	Nov 2	10	0	28,3	17,5	V:1	11,9	1,6
	29	10	0	25.0	6.4			
	Dec 5	10	0	20.6	3.2			
	11	10	0	14,6	56,0			
	20	10	0	24,9	1,8			
1872	Jan 2	10	0	37,0	16,8			

K Low H.
0 27 50
109 29

	Nov 2	55	1	80	52,6	0	41,2	27,2
	29	55	0	43.3	19.3	midges & fol		
	Dec 20	55	0	42,2	14,0			
	28	55	1	30	35,0			
1872	Jan 2	55	0	42,8	23,8			

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1871phae.proj.1388R

B.A.C. 160
0 30 46
- 25 30

1871	Nov 19	50	0	-1,2	-2,4	
	Dec 5	45	4	32,7	24,4	
	20	45	4	32,7	24,4	
	28	45	4	32,8	22,4	
1872	Jan 2	50	0	22,0	11,9	

α Cas 2 ✓
0 33 24
+ 55 49

	Nov 2	30	3	56,7	45,7	
	19	30	4	21,0	12,7	
	29	30	3	34,4	15,3	
	Dec 5	30	3	47,0	27,8	
	11	30	3	39,7	21,0	
	16	30	4	26,3	7,3	b c
	21	30	3	44,3	21,5	
	28	30	3	41,0	23,9	
1872	Jan 2	30	4	56,6	45,5	
	~~23~~	~~30~~	~~3~~	~~28,6~~	~~5,3~~	

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1871phae.proj.13803

ζ Cas
B
0 3 45.4
+49 45
36

2/1871 ~~20~~ ~~35~~ 0 ~~44.9~~ ~~2.6~~

28 35 0 18.0 −3.6

1872 Jan 2 35 0 50.6 30.5

Plate
0 37.70
+1 43

~~20~~	0	3	~~7.7~~	~~58.7~~
~~20~~	0	3	25.7	13.9
28	0	3	21.4	12.0
1872 Jan 2	0	3	45.6	36.0

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1871phae.proj.1386R

24 Cancri 8 37 08 +14 16	S	1871	Nov 19	5	1	57.6	42.5
			29	5	1	52.4	31.2
			Dec 11	5	2	2.5	43.1
β Andromedæ 0 40 32 +23 33	V		Nov 2	45	3	50.2	44.0
			29	45	4	2.3	46.0
			Dec 5	45	4	4.1	47.3
			1872 Jan 21	45	3	56.6	29.9

4	12.9	6.9	

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1871phae.proj.1380R

ζ Cas.
0 41 18
+57 08

✓ 181

Nov 2	15	0	57,2	46,8	11	29,2	19,8
Nov 19	15	1	18,6	4,5			
Dec 24							
~~Dec 28~~	15	0	34,5	12,5			

ι Androm
0 22 44
+40 22

~~Nov 29~~	0	1	27,7	11,4	1 fol
Dec 5	0	0	30,2	19,8	

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1871phae.proj.1388R

B.A.6.237
0 44 42
+2 12
05

2 1871 Dec 28 20 0 33,2 19,2

10.0

20 brt
0 46 27
−1 51

Dec 1 10 2 51,1 36,7
28 10 3 7,3 54,7

Jun 21 Too faint

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32 Camel L.b. 0 48 20 95 5.2	1871 Dec 28	30	1	39.1	119.5	cal - 15 4 m
γ Cassiopeiae 0 48 57 +60 01	Nov 29	20	2	25.2	3.7	
	1872 Jan 21	20	2	16.8	48.5	

1871phae.proj.138GR

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a Andromedae
0 49 34
+37 48

1871 Dec 5 35 1 2,7 45.8 Before

a Sculptoris
0 52 27
−30 03

5

Nov 29	20	4	31.2	20.0
Dec 5	20	4	23.8	12.7
26	20	3	43.6	29.0

1872 June 21 not seen

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1871phae.proj.13868

E Piscium
0 56 16
+4 12

1871	Nov 29	10	0	46.7	33.2			
(4	Dec 5	10	0	49.1	37.5			
	17	10	1	29	17.9			
	20	10	0	59.9	44.8			
1872	Jan 2	16	0	52.0	39.2			
	21	10	0	42.6	23.8			

ω Leon
0 59 83
+54 18

Nov 29	5	1	12.7	51.9				
Dec 5	5	1	7.3	46.7				
17	5	1	7.3	48.8				
20	5	1	6.8	45.5	5	148.0	27.8	
28	R only							
1872 Jan 2	5	1	2.6	51.6				
14	5	1	2.7	48.9				
21	5	1	39.8	11.2	mid pr of fuel			

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B Andromedae
1 2 32 (1871
+34 56 (2

Nov 29	25	1	53.9	36.4	
Dec 5	25	2	37.2	19.1	last obs
17	25	1	55.3	43.9	
20	25	1	50.2	31.6	
27	25	1	58.7	43.0	
28	25	1	52.5	32.6	
1872 Jan 2	25	1	54.6	37.0	
21	25	1	45.2	18.3	
~~24~~	~~25~~	~~2~~	1,2	31.6	

τ Piscium
1 4 33
+29 24

Nov 29	55	4	40.6	22.3	d for
Dec 1	55	4	40.3	22.2	" "
2	55	3	46.2	30.2	
6	55	3	38.3	18.2	
17	55	3	42.2	25.2	
20	55	3	44.2	24.4	
27	55	4	28.6	13.4	
1877 Jan 21	55	3	41.4	22	

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37 Cets
1 7 55
-8 37

1871 (5.6

Nov 29	55	4	5.1	56.0	
~~Dec 11~~	~~55~~	~~4~~	~~9.0~~	~~24~~	
12	55	4	1.2	52.9	
20	55	0	7!	55?	
27	55	4	4.2	54.2	
28	55	1	1.1	50.2	
1872 Jan 2	55	4	2.5	52.2	
~~8~~	55	4	~~8.0~~	~~25~~	

Polaris
1 12 m
88 87

Nov 19	~~45~~	~~2~~	~~12.7~~	~~6.3~~	2	28.1	11.0
+23	45	2	15.0	55.0	2	32.7	12.2
+29	45	2	~~34.0~~	9.8	Mud pr but 1st in of fol		
Dec 1	45	2	17.9	03.9	2	26.3	2.0
+2	45	2	16.9	52.2	2	27.7	2.9
15	45	2	12.1	47.8	45 2	29.6	2.0
Rapid brks (5) 16 before 12 M	45	2	23.6	56.4	2	31.1	3.8
11	45	2	11.9	51.3	2	28.2	2.0
12	45	2	14.7	50.6	45 2	26.8	2.3
17	45	2	8.6	46.1	2	23.9	0.9
+20	45	2	17.0	50.6	2 seconds late 1st 1/2 more 45 2 15.8 2.3		
+27	45	2	14.2	52.0	45 2	23.8	0.0 B.C
1872 Jan 8	45	2	22.2	56.2			
9	45	2	24.5	56.1			

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1871phae.proj.13802

Androm.

1871

1 14 45

1 44 51

Polaris

1872

1872 Jan 14	0	40	2	7.3	43.4			
21		45	2	7.6	32.9	Mid[illegible] accept 1st wire		
28						A.R. only.		

D, Cephei

1 17 36

−8 8 1

Dec 1	10	3	7.2	57.7				
9	10	3	6.2	56.4				
17	10	2	5.8.1	49.7				
27	10	3	7.7	0.2	4	5	7.2	48.7
1872 Jan 8	10	3	5.6.2	43.8				
9	10	3	10.6	−1.4				
21	10	3	3.8	43.0				

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1871phae.proj.138R

ω Androm 1 19 55 +44 44	1871 (5	Nov 29	35	3	48.4	28.7	
		Dec 1	35	3	56.8	38.5	
		2	35	3	44.9	28.8	
		17	35	3	50.5	34.0	
	1872	Jan 8	35	3	47.0	26.4	
		9	35	4	0.7	40.2	
		24	35	3	41.8	14.4	

A Cassiopeiae 1 21 37 +69 36	(6	Dec 1	2.55	3	18.2	56.2	Sfol [illegible]
		11	45	2	47.5	27.0	
		12	45	2	50.1	28.7	
		17	45	2	44.4	23.8	
		27	45	2	47.2	27.0	45 3 20.0 59.3
		28	45	2	54.5	29.0	45 3 18.6 53.4
	1872	Jan 2	45	2	58.8	36.0	
		8	45	3	16.5	51.5	B.C. D.Q.
		9	45	2	43.1	19.4	

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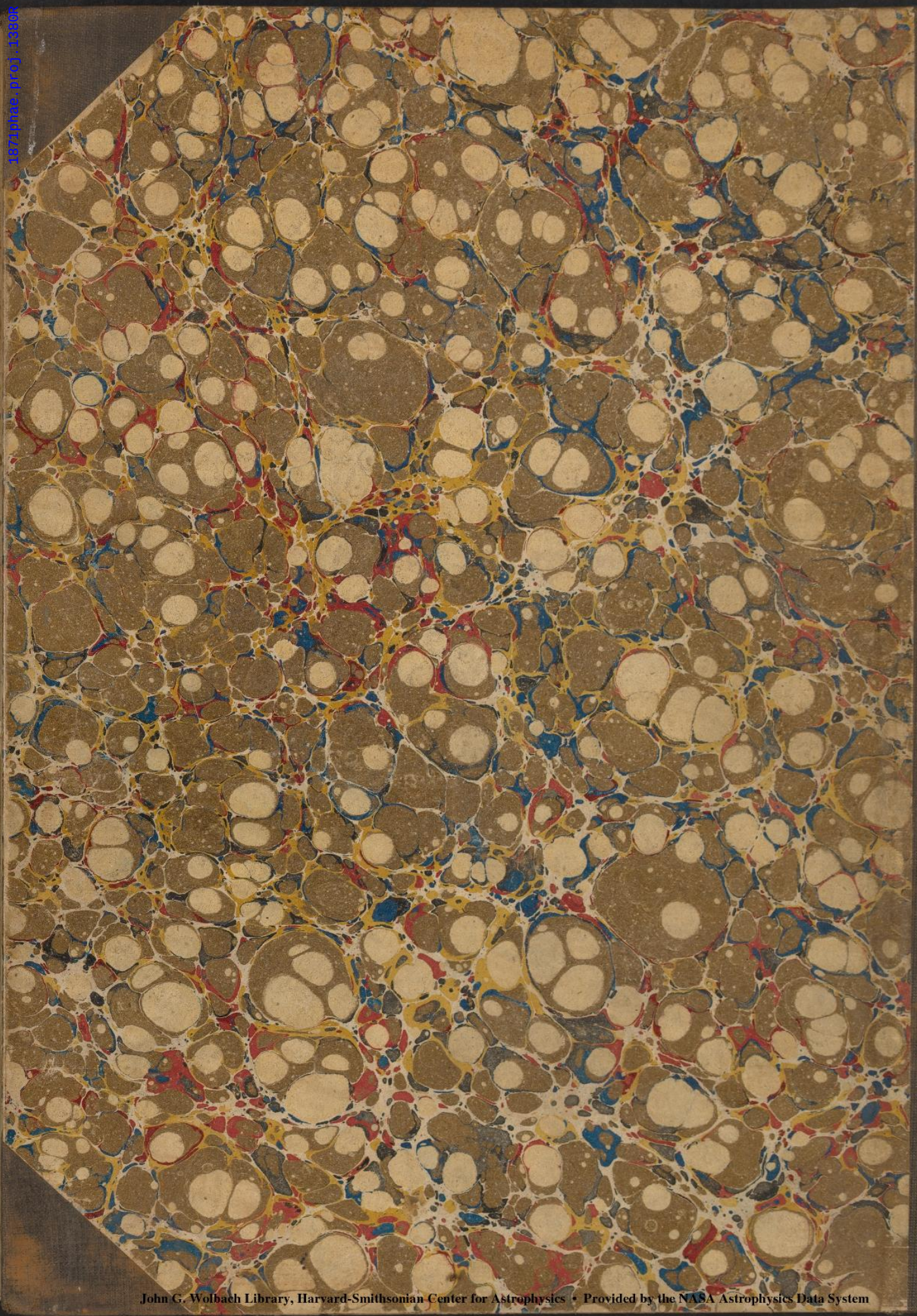
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