

KG
11366
v.791

U. S. COAST SURVEY.

BENJAMIN PEIRCE, *Superintendent.*

SECTION *I*

Check Reading of Sheets of
OBSERVATIONS FOR LONGITUDE.

STATION.

Harvard College Observatory

Cambridge Mass.

1st & 2nd Readings by T. M. & S. D. Larr
Check Reading by
INSTRUMENT USED.

ORIGINAL.

18

Chief of party.

Prof. Joseph Winlock
Obs. Henry Garnett

/ Vol. 9.

Vol. *I*

Personal Equation

Observers. G. W. Dean and H. Cannell

Nov. 22

BAD 8193		8224		8239		8312		* 84/4 (same 8)	
G	D	D	G	G	D	D	G	G	D
1 23 29 35.45		23 32 49.75		23 35 37.90		23 49 41.32		0 2 59.90	
2	29 17.20		32 28.20		35 22.50		—		42.70
3 24 21.60		32 10.35		35 9.78		—		28.58	
4	28 57.62		31 57.20		35 0.38		49 34.5		2 18.50
5 41.00		31 40.50		34 57.28		48 59.70		—	
6	28 22.40		22.00		34 85.30		48 38.95		—
7 28 3.80		30 59.80		19.30		—		—	
8	27 52.90		30 46.30		34 9.95		48 13.72		1 22.15
9 27 41.82		23 30 22.80		34 0.40		48 44.48		1 11.75	
10	27.20		30 15.40		33 47.70		47 52.05		0 57.60
11 23 27 8.75		—		23 33 31.90		23 47 36.50		0 0 40.05	

Nov 22

Nov 23

4				21				8 2 11				8 2 24				8 2 39			
G		D		D		G		G		D		D		G		G		D	
1	0 5 52.82							23	27 9.20			23	29 54.38					23	
2		0 5 37.00								27.40			30 15.50					23	33 47.60
3	24.10			0 8 38.70				27 41.90				30 33.55				34 0.15			
4		5 14.45				29.00		27 52.90				30 46.55						9.65	
5	5 5.25			8 19.55				28 34.0				30 59.45	31		18.70				
6		4 49.00				8 2.92				22.28			31 22.0					34 34.90	
7	4 32.90			7 46.30				40.52				31 44.22			58.85				
8		23.00				36.62		28 37.75				31 57.68						35 0.22	
9	4 13.60			7 26.60				29 2.50				32 10.82			9.35				
10		4 0.32				7 13.70		29 17.55				32 28.10						22.15	
11	0 3 44.45			0 6 57.00				23 29 35.60				23 32 58.60				23 38 38.8			

Nov 23rd

Nov 23

	α Androm.			21			32			58			73		
	G	D	D	G	G	D	D	G	D	G	G	D	D	D	D
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															

Nov. 23

109	142		164		178		222		
D	G	G	D	D	G	G	D	D	G

Nov 23

	242		259		274		288		316	
	G	D	D	G	G	D	D	G	G	D
1										
2										
3										
4										
5										
6										
7										
8										
9										
11										

Nov. 23

	570		533		561		577		593	
	G	D	D	G	G	D	D	G	G	D
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

Nov 23

Nov 28

636	708	745	776	X wrong star but some is 22 Androm
D	G	G	D	G

Nov 28

Nov 28

M Casopine		B Androm.		39 Chi		E Androm		w Androm	
G	D	D	G	G	D	D	G	G	D

Nov 28

	η Riscum		ν Riscu		c Androm		σ Riscum		BAC 544	
	D	G	G	D	D	G	G	D	D	G
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

Nov 28th

5 Ceti	β Arius	λ Arius	ν Ceti	Lal 3837
G D	D G	G D	D G	G D

Nov 28

	β Trianguli		δ Trianguli		δ Ceti		γ Ceti		τ Eridani	
	D	G	G	D	D	G	G	D	G	D
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

Nov 28

41 Arctis	7 Kassi	8 Pessi	5 Arctis	3 Arctis
D	G	G	D	D
				G

Dec 20

♂ Pygmi		♂ Piscum		♂ 4 Aquarii		♂ Androm ♂ ~~Pygmi~~		♂ Piscum	
NT	G	G	NT	NT	G	G	NT	NT	G

Dec 20

	x Andromeda		BAC 6289		W Piccinini		2 Chi		x Andromeda	
	G	M	M	G	G	M	M	G	G	M
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

Dec 20

γ Regasi	α Androm	α Leporis	ϵ Rucina	δ Androm
α M	M	α M	α M	α M

Dec 20

	10 Androm		γ Pscium		ν Persei		ν Pscium		α Pscium	
	M	G	M	G	G	M	NT	G	G	NT
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

Dec 20

Dec 21

X Ceti	β Aries	λ Aries	X	? Aquarii	α Pis. ans
NT	at	at	NT	at	at

Dec 21

	o Androm		53 Pegasi		γ Picini		T Pegasi		γ Pegasi	
	M	G	G	M	M	G	G	M	M	G
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

ϕ Pscium		ϕ Apsosin		λ Androm		λ Pscium		$\times$ Androm	
ϕ	NP	NP	ϕ	ϕ	NP	NP	ϕ	ϕ	NP

Dec 21

	B9C8289		ρ Cassiopeia		W Piscium		26 Piscium		1 Sculptoris	
	M	A	A	M	M	A	M	A	A	M
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

A Androm	S Persei	L Androm	o Perseus	x Ceti
N G	G	N	N	G

Dec 21

	β Arietis		λ Arietis (pr)		λ Arietis (fol.)		ν Aet		Sol 3837	
	G	M	M	G	~~H~~	M	G	M	G	M
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

Dec 21st

Brouguli * pr. 65 Titi Brouguli
M G G M M G

Dec 21

Dec 21st

B. longuli			* pr. 65	Teti			B. longuli		
M	C	C		M	M	C			

Sept-29

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Oct 2

Cleveland C.		Allegheny C.		Columbus C.		Comparison of North & South C.		Allegheny N.C.	
Cambridge Time	Cleveland Time	Cambridge Time	Allegheny Time	North Pike Cambridge Time	Columbus Time			Cambridge Time	Allegheny Time
22 31 44.80	21 50 1.00	22 52 38.21	22 18 1.00	23 14 43.26	22 28 1.00	23 19 0.78		23 31 10.35	
45.26		39.20		44.30		2.74		11.35	
46.28		40.20		45.29		4.76		12.35	
47.26		41.19		46.28		6.79		13.37	
48.30		42.20		47.26		8.77			
49.28	6.00	43.18	6.00	48.26	6.00	10.78		15.40	
50.26		44.20		49.28		12.78		16.36	
51.26		45.20		50.29		14.75		17.39	
52.27		46.20		51.26		16.74		18.34	
53.25		47.19		52.27		18.76		19.38	
54.30	11.00	48.20	11.00	53.30	11.00	20.78		20.32	
55.25		49.21		54.29		22.80		21.40	
56.30		50.20		55.30		24.80		22.38	
57.26		51.20		56.30		26.74		23.40	
58.29		52.20		57.29		28.74		24.37	
31 59.26	16.00	53.20	16.00	58.30	16.00	30.80		25.40	
32 0.27		54.20		14 59.27		32.76		26.40	
1.29		55.20		15 0.28		34.76		27.40	
2.25		56.22		1.28		36.78		28.40	
3.23		57.20		2.25		38.79		29.40	
4.28	21.00	58.21	21.00	3.28	21.00	40.78		30.40	
5.28		59.19		4.29		42.78		31.40	
6.25		60.19		5.26		44.80		32.40	
7.23		1.19		6.29		46.74		33.40	
8.25		2.20		7.28		48.78		34.40	
9.28	26.00	3.20	26.00	8.28	26.00	50.80		35.41	
10.29		4.22		9.28		52.76		36.40	
11.26		5.20		10.28		54.76		37.40	
12.28		6.20		11.30		56.74		38.41	
13.25		7.20		12.29		58.76	19	39.40	
14.28	31.00	8.20	31.00	13.22	31.00	60.78	20	40.42	
15.25		9.20		14.26		62.74		41.44	
16.26		10.20		15.26		64.74		42.42	
17.26		11.20		16.26		66.74		43.42	
18.26		12.21		17.26		68.75		44.42	
19.24	36.00	13.20	36.00	18.27	36.00	70.78		45.44	
20.26		14.20		19.28		72.79		46.45	
21.24		15.20		20.29		74.74		47.46	
22.26		16.22		21.26		76.72		48.46	
23.26		17.20		22.24		78.77		49.45	
24.28	41.00	18.22	41.00	23.24	41.00	80.74		50.58	
25.24		19.20		24.21		82.74		51.46	
26.25		20.22		25.26		84.76		52.47	
27.25		21.18		26.26		86.75		53.46	
28.25		22.21		27.21				54.48	
29.28	46.00	23.18	46.00	28.26	46.00	90.80		55.47	
30.25		24.21		29.22		92.74		56.49	
31.28		25.20		30.21		94.79		57.46	
32.25		26.20		31.20		96.76		58.48	
33.28		27.20		32.20		98.76		59.47	31
34.23	51.00	28.22	51.00	33.30	51.00	100.76		60.46	32
35.26		29.20		34.26		102.76		61.50	
36.26		30.22		35.29		104.74		62.50	
37.26		31.20		36.28		106.78		63.49	
38.26		32.22		37.28		108.79		64.50	
39.24	56.00	33.20	56.00	38.28	56.00	110.79			
40.26		34.20		39.28		112.76			
41.25		35.20		40.29		114.79			
42.28		36.22		41.28		116.79			
						118.78			

Oct-4

De 7-3-

Columbus	Clock	Allegany C.	Cleveland C.	Allegany C.	Columbus C.
Cambridge	Columbus	Cambridge	Allegany	Concord	New Bedford
Time	Time	Time	Time	Time	Time

Dec 1st

Dec 2

Dec 3

Dec 5

Shelbyville C	Shelbyville C	Shelbyville C	Shelbyville C	Shelbyville C	Shelbyville C
Cambridge	Shelbyville	Cambridge	Shelbyville	Cambridge	Shelbyville
Time	Time	Time	Time	Time	Time

Dec 20

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