

1875 photo, photo, 359.

O 26

Harvard College Observatory.
Clock corrections.
1875.

Table for ¹⁸⁷⁵ converting sidereal into mean solar time.

Hours.

0	3 ^m	47.00	8	2 ^m	28.36	16	1 ^m	9.73
1	3	37.17	9	2	18.53	17	0	59.90
2	3	27.34	10	2	8.70	18	0	50.07
3	3	17.51	11	1	58.87	19	0	40.24
4	3	7.68	12	1	49.05	20	0	30.41
5	2	57.85	13	1	39.22	21	0	20.58
6	2	48.02	14	1	29.39	22	0	10.75
7	2	38.19	15	1	19.56	23	0	0.92

Minutes.

0	10.00	20	6.72	40	3.45
1	9.84	21	6.56	41	3.28
2	9.67	22	6.40	42	3.12
3	9.51	23	6.23	43	2.96
4	9.34	24	6.07	44	2.79
5	9.18	25	5.90	45	2.63
6	9.02	26	5.74	46	2.46
7	8.85	27	5.58	47	2.30
8	8.69	28	5.41	48	2.14
9	8.53	29	5.25	49	1.97
10	8.36	30	5.09	50	1.81
11	8.20	31	4.92	51	1.64
12	8.03	32	4.76	52	1.48
13	7.87	33	4.59	53	1.32
14	7.71	34	4.43	54	1.15
15	7.54	35	4.27	55	0.99
16	7.38	36	4.10	56	0.83
17	7.22	37	3.94	57	0.66
18	7.05	38	3.77	58	0.50
19	6.89	39	3.61	59	0.33

Seconds

0	3.00	10	2.97	20	2.94	30	2.92	40	2.89	50	2.86
1	3.00	11	2.97	21	2.94	31	2.91	41	2.89	51	2.86
2	2.99	12	2.96	22	2.94	32	2.91	42	2.89	52	2.86
3	2.99	13	2.96	23	2.94	33	2.91	43	2.88	53	2.85
4	2.99	14	2.96	24	2.93	34	2.91	44	2.88	54	2.85
5	2.98	15	2.96	25	2.93	35	2.90	45	2.88	55	2.85
6	2.98	16	2.95	26	2.93	36	2.90	46	2.87	56	2.85
7	2.98	17	2.95	27	2.92	37	2.90	47	2.87	57	2.84
8	2.98	18	2.95	28	2.92	38	2.90	48	2.87	58	2.84
9	2.97	19	2.95	29	2.92	39	2.89	49	2.87	59	2.84

The above corrections are added, 4 minutes being always subtracted from the time of sidereal oh.

whole Reduction of sidereal to mean time.

400

Minutes

1	0.164	21	3.440	41	6.717
2	0.328	22	3.604	42	6.881
3	0.491	23	3.768	43	7.045
4	0.655	24	3.932	44	7.208
5	0.819	25	4.096	45	7.372
6	0.983	26	4.259	46	7.536
7	1.147	27	4.423	47	7.700
8	1.311	28	4.587	48	7.864
9	1.474	29	4.751	49	8.027
10	1.638	30	4.915	50	8.191
11	1.802	31	5.079	51	8.355
12	1.966	32	5.242	52	8.519
13	2.130	33	5.406	53	8.683
14	2.294	34	5.570	54	8.847
15	2.457	35	5.734	55	9.010
16	2.621	36	5.898	56	9.174
17	2.785	37	6.062	57	9.338
18	2.949	38	6.225	58	9.502
19	3.113	39	6.389	59	9.666
20	3.277	40	6.553	60	9.830

Seconds

1	0.003	21	0.057	41	0.112
2	0.005	22	0.060	42	0.115
3	0.008	23	0.063	43	0.117
4	0.011	24	0.066	44	0.120
5	0.014	25	0.068	45	0.123
6	0.016	26	0.071	46	0.126
7	0.019	27	0.074	47	0.128
8	0.022	28	0.076	48	0.131
9	0.025	29	0.079	49	0.134
10	0.027	30	0.082	50	0.137
11	0.030	31	0.085	51	0.139
12	0.033	32	0.087	52	0.142
13	0.035	33	0.090	53	0.145
14	0.038	34	0.093	54	0.147
15	0.041	35	0.096	55	0.150
16	0.044	36	0.098	56	0.153
17	0.046	37	0.101	57	0.156
18	0.049	38	0.104	58	0.158
19	0.052	39	0.106	59	0.161
20	0.055	40	0.109	60	0.164

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1875. Cambridge mean time of sidereal 0^h , less 4 minutes

1

February	1	3	9	33.17	March	2	1	15	31.79
	2	3	5	37.26		3	1	11	35.88
	3	3	1	41.35		4	1	7	39.98
	4	2	57	45.44		5	1	3	44.07
	5	2	53	49.53		6	0	59	48.16
	6	2	49	53.62		7	0	55	52.25
	7	2	45	57.71		8	0	51	56.34
	8	2	42	1.80		9	0	48	0.44
	9	2	38	5.89		10	0	44	4.54
	10	2	34	9.98		11	0	40	8.63
	11	2	30	14.07		12	0	36	12.72
	12	2	26	18.16		13	0	32	16.81
	13	2	22	22.25		14	0	28	20.90
	14	2	18	26.34		15	0	24	24.99
	15	2	14	30.43		16	0	20	29.09
	16	2	10	34.52		17	0	16	33.18
	17	2	6	38.61		18	0	12	37.27
	18	2	2	42.70		19	0	8	41.36
	19	1	58	46.80		20	0	4	45.44
	20	1	54	50.89		21	0	0	49.55
	21	1	50	54.97		21	23	56	53.64
	22	1	46	59.06		22	23	52	57.73
	23	1	43	3.15		23	23	49	1.82
	24	1	39	7.25		24	23	45	5.92
	25	1	35	11.34		25	23	41	10.01
	26	1	31	15.43		26	23	37	14.10
	27	1	27	19.51		27	23	33	18.20
	28	1	23	23.61		28	23	29	22.29
March	1	1	19	27.70		29	23	25	26.38

1875. Cambridge mean time of sidereal 0^h, less 4 minutes.

March 30	23	21	30.47	April 28	21	27	29.12
31	23	17	34.56	29	21	23	33.21
April 1	23	13	38.65	30	21	19	37.30
2	23	9	42.74	May 1	21	15	41.39
3	23	5	46.82	2	21	11	45.48
4	23	1	50.92	3	21	7	49.57
5	22	57	55.02	4	21	3	53.67
6	22	53	59.11	5	20	59	57.76
7	22	50	3.20	6	20	56	1.85
8	22	46	7.29	7	20	52	5.93
9	22	42	11.39	8	20	48	10.02
10	22	38	15.48	9	20	44	14.11
11	22	34	19.57	10	20	40	18.20
12	22	30	23.66	11	20	36	22.29
13	22	26	27.75	12	20	32	26.38
14	22	22	31.84	13	20	28	30.47
15	22	18	35.93	14	20	24	34.56
16	22	14	40.02	15	20	20	38.64
17	22	10	44.12	16	20	16	42.73
18	22	6	48.21	17	20	12	46.82
19	22	2	52.30	18	20	8	50.91
20	21	58	56.39	19	20	4	54.99
21	21	55	0.49	20	20	0	59.08
22	21	51	4.58	21	19	57	3.17
23	21	47	8.67	22	19	53	7.26
24	21	43	12.76	23	19	49	11.34
25	21	39	16.85	24	19	45	15.43
26	21	35	20.94	25	19	41	19.52
27	21	31	25.03	26	19	37	23.61

1875. Cambridge mean time of sidereal 0^h; less 4 minutes.

May 27	19	33	27.70	June 25	17	39	26.24
28	19	29	31.79	26	17	35	30.33
29	19	25	35.88	27	17	31	34.41
30	19	21	39.97	28	17	27	38.49
31	19	17	44.05	29	17	23	42.58
June 1	19	13	48.14	30	17	19	46.67
2	19	9	52.23	July 1	17	15	50.76
3	19	5	56.32	2	17	11	54.84
4	19	2	0.40	3	17	7	58.93
5	18	58	4.49	4	17	4	3.02
6	18	54	8.58	5	17	0	7.10
7	18	50	12.67	6	16	56	11.19
8	18	46	16.75	7	16	52	15.28
9	18	42	20.84	8	16	48	19.37
10	18	38	24.93	9	16	44	23.46
11	18	34	29.02	10	16	40	27.54
12	18	30	33.10	11	16	36	31.62
13	18	26	37.19	12	16	32	35.71
14	18	22	41.28	13	16	28	39.80
15	18	18	45.36	14	16	24	43.88
16	18	14	49.45	15	16	20	47.97
17	18	10	53.53	16	16	16	52.06
18	18	6	57.62	17	16	12	56.15
19	18	3	1.72	18	16	9	0.24
20	17	59	5.80	19	16	5	4.33
21	17	55	9.89	20	16	1	8.42
22	17	51	13.98	21	15	57	12.51
23	17	47	18.07	22	15	53	16.59
24	17	43	22.15	23	15	49	20.68

4

1875. Cambridge mean time of sidereal 0^h, less 4 minutes.

July 24	15	45	24.77	August 22	13	51	23.37
25	15	41	28.87	23	13	47	27.46
26	15	37	32.94	24	13	43	31.55
27	15	33	37.03	25	13	39	35.64
28	15	29	41.12	26	13	35	39.73
29	15	25	45.21	27	13	31	43.82
30	15	21	49.30	28	13	27	47.91
31	15	17	53.39	29	13	23	52.00
August 1	15	13	57.48	30	13	19	56.10
2	15	10	1.57	31	13	16	0.19
3	15	6	5.66	September 1	13	12	4.28
4	15	2	9.75	2	13	8	8.37
5	14	58	13.84	3	13	4	12.46
6	14	54	17.93	4	13	0	16.56
7	14	50	22.02	5	12	56	20.65
8	14	46	26.11	6	12	52	24.74
9	14	42	30.20	7	12	48	28.83
10	14	38	34.29	8	12	44	32.92
11	14	34	38.38	9	12	40	37.02
12	14	30	42.47	10	12	36	41.10
13	14	26	46.56	11	12	32	45.19
14	14	22	50.65	12	12	28	49.29
15	14	18	54.74	13	12	24	53.39
16	14	14	58.83	14	12	20	57.48
17	14	11	2.92	15	12	17	1.57
18	14	7	7.01	16	12	13	5.67
19	14	3	11.10	17	12	9	9.76
20	13	59	15.19	18	12	5	13.85
21	13	55	19.28	19	12	1	17.95

1875. Cambridge mean time of sidereal 0^h, less 4 minutes. 5

September 20	11	57	22.04	October 19	10	3	20.71
21	11	53	26.13	20	9	59	24.80
22	11	49	30.22	21	9	55	28.89
23	11	45	34.31	22	9	51	32.98
24	11	41	38.40	23	9	47	37.07
25	11	37	42.49	24	9	43	41.16
26	11	33	46.58	25	9	39	45.25
27	11	29	50.68	26	9	35	49.34
28	11	25	54.77	27	9	31	53.43
29	11	21	58.86	28	9	27	57.52
30	11	18	2.95	29	9	24	1.61
October 1	11	14	7.05	30	9	20	5.70
2	11	10	11.14	31	9	16	9.79
3	11	6	15.23	November 1	9	12	13.88
4	11	2	19.32	2	9	8	17.97
5	10	58	23.41	3	9	4	22.06
6	10	54	27.51	4	9	0	26.15
7	10	50	31.60	5	8	56	30.24
8	10	46	35.69	6	8	52	34.33
9	10	42	39.79	7	8	48	38.42
10	10	38	43.88	8	8	44	42.51
11	10	34	47.97	9	8	40	46.60
12	10	30	52.06	10	8	36	50.69
13	10	26	56.15	11	8	32	54.77
14	10	23	0.25	12	8	28	58.86
15	10	19	4.34	13	8	25	2.95
16	10	15	8.44	14	8	21	7.04
17	10	11	12.53	15	8	17	11.13
18	10	7	16.62	16	8	13	15.22

6

1875. Cambridge mean time of sidereal 0^h, less 4 minutes.

November 17	8	9	19.31	December 16	6	15	17.85
18	8	5	23.40	17	6	11	21.94
19	8	1	27.48	18	6	7	26.03
20	7	57	31.57	19	6	3	30.12
21	7	53	35.66	20	5	59	34.20
22	7	49	39.75	21	5	55	38.28
23	7	45	43.84	22	5	51	42.37
24	7	41	47.93	23	5	47	46.46
25	7	37	52.02	24	5	43	50.54
26	7	33	56.11	25	5	39	54.63
27	7	30	0.19	26	5	35	58.72
28	7	26	4.28	27	5	32	2.81
29	7	22	8.37	28	5	28	6.89
30	7	18	12.46	29	5	24	10.98
December 1	7	14	16.54	30	5	20	15.07
2	7	10	20.63	31	5	16	19.16
3	7	6	24.72				
4	7	2	28.81				
5	6	58	32.89				
6	6	54	36.98				
7	6	50	41.07				
8	6	46	45.16				
9	6	42	49.24				
10	6	38	53.33				
11	6	34	57.42				
12	6	31	1.51				
13	6	27	5.59				
14	6	23	9.68				
15	6	19	13.77				

1875

d	Feb. 15						Feb. 16.					
clocks	S. & N.			E. & N.			S. & N.			E. & N.		
S	19	29	6.00	19	33	35.00	19	18	37.00	19	21	46.00
C	2	14	30.43	2	14	30.43	2	10	34.52	2	10	34.52
h			40.24			40.24			40.24			40.24
m			5.25			4.59			7.05			6.53
s			2.98			2.90			2.89			2.87
J	21	43	24.90	21	48	53.16	21	30	1.70	21	33	10.19
M	21	43	47.00	21	50	5.00	21	30	25.00	21	34	22.00
R			- 22.10			71.84			- 23.30			- 71.81
E												
e												
x												

At 21^h 53^m $\mathcal{F}_{3424} = -154^m 68.3$ At 21^h 40^m $\mathcal{F}_{3424} = -159^m 44.5$

d	February 17.						February 18					
clocks	S. & N.			E. & N.			S. & N.			E. & N.		
S.	19	39	37.00	19	36	47.00	19	46	16.00	19	33	40.00
C.	2	6	38.61	2	6	38.61	2	2	42.70	2	2	42.70
h			40.24			40.24			40.24			40.24
m			3.61			4.10			2.46			4.59
s			2.90			2.87			2.95			2.89
J	21	47	2.36	21	44	12.82	21	49	44.35	21	37	10.42
M	21	47	27.00	21	45	25.00	21	50	10.00	21	38	22.00
R.			- 26.64			72.18			- 25.65			- 71.58
E.												
e												
x												

 \mathcal{F}_{3424} At 21^h 53^m = -164^m 26.6At 21^h 45^m -168^m 57.9

1875

d	February 19.						February 21.					
	S. & N.			E. & N.			S. & N.			S. & E.		
S	20	11	45.00	20	13	25.00	20	1	9.00	19	50	1.00
C	1	58	46.80	1	58	46.80	1	50	54.97	1	50	54.97
h			30.41			30.41			30.41			40.24
m			8.20			7.87			9.84			1.81
d			2.88			2.93			2.97			3.00
J	22	11	13.29	22	12	53.01	21	52	47.19	21	41	41.02
M	22	11	40.00	22	14	5.00	21	53	16.00	21	42	47.00
R			- 26.71			- 71.99			- 28.81			- 65.98
E												
e												
x												
43424	At 22 ^h 20 ^m			- 173 ^m 13.3 ^s			At 22 ^h 0 ^m			- 180 ^m 24.8 ^s		

d	February 23						February 23					
	S. & N.			E. & N.			S. & N.			E. & N.		
S	2	41	47.00	2	39	30.00	20	12	57.00	20	6	10.00
C	1	43	3.15	1	43	3.15	1	43	3.15	1	43	3.15
h			3			27.34			30.41			30.41
m			3.28			3.61			8.03			9.02
d			2.87			2.92			2.86			2.97
J	4	28	23.64	4	26	7.02	21	56	35.45	21	49	55.55
M	4	28	54.00	4	27	12.00	21	57	7.00	21	51	0.00
R			- 30.36			- 64.98			- 31.55			- 64.45
E												
e												
x												
43424	At 4 ^h 30 ^m			- 184 ^m 36.4 ^s			At 22 ^h 0 ^m			- 186 ^m 31.1 ^s		

1875.

d	February 24						February 25					
Clocks.	S & N			E & N			S & N			E & N		
S	20	2	39.00	19	56	16.00	20	15	18.00	20	17	36.00
C	1	39	7.25	1	39	7.25	1	35	11.34	1	35	11.34
h			30.41			40.24			30.41			30.41
m			9.67			8.83			7.54			7.22
s			2.89			2.95			2.95			2.90
J	21	42	29.22	21	36	7.27	21	51	10.24	21	53	27.87
M	21	43	2.00	21	37	10.00	21	51	44.00	21	54	30.00
R			-32.78			-62.73			-33.76			-62.13
E												
e												
x												
J 3424	at 21 ^h 45 ^m			-188 ^m 42.6			at 22 ^h 5 ^m			-190 ^m 49.4		

d	February 26						March 1					
Clocks.	S & N			E & N			S & N			E & N		
S	20	9	3.00	20	19	48.00	20	41	19.00	20	33	30.00
C	1	31	15.43	1	31	15.43	1	19	27.70	1	19	27.70
h			30.41			30.41			30.41			30.41
m			8.53			6.89			3.28			4.59
s			2.99			2.87			2.95			2.92
J	21	41	11.36	21	51	43.60	22	1	23.34	21	53	35.62
M	21	41	34.00	21	52	42.00	22	2	0.00	21	54	20.00
R			-33.64			-58.40			-36.66			-44.48
C												
e												
x												
J 3424	at 21 ^h 50 ^m			-193 ^m 49.1			at 22 ^h 0 ^m			-205 ^m 53.5		

1875.

d	March 2.						March 3.					
	S. & N.			E. & N.			S. & N.			E. & N.		
S	20	16	32.00	21	12	23.00	20	15	17.00	20	23	15.00
b	1	15	31.79	1	15	31.79	1	11	35.88	1	11	35.88
h			30.41			30.41			30.41			30.41
m			7.38			8.03			7.54			6.23
z			2.91			2.94			2.95			2.96
J	21	32	44.49	21	28	36.17	21	27	33.78	21	35	30.48
M	21	33	22.00	21	29	17.00	21	28	13.00	21	36	7.00
R	-		37.51	-		40.83	-		39.22	-		36.52
E												
e												
x												
J. 3424	at 21 ^h 50 ^m			- 209 ^m 22.5			at 21 ^h 30 ^m			- 213 ^m 5.8		

d	March 4						March 5					
	N. & S.			N. & E.			S. & N.			E. & N.		
S	20	43	52.00	20	49	49.00	20	20	17.00	20	15	27.00
b	1	7	39.98	1	7	39.98	1	3	44.07	1	3	44.07
h			30.41			30.41			30.41			30.41
m			2.96			1.97			6.72			7.54
s			2.86			2.87			2.95			2.92
J	21	52	8.21	21	58	4.23	21	24	41.15	21	19	51.94
M	21	52	48.00	21	58	35.00	21	25	23.00	21	20	19.00
R	-		39.79	-		30.77	-		41.85	-		27.06
E												
e												
x												
J. 3424.	at 22 ^h 0 ^m			- 217 ^m 5.0			at 21 ^h 25 ^m			- 220 ^m 29.3		

1875

d	March 7						March 8					
	S. & N.			E. & N.			S. & N.			E. & N.		
<i>l</i>	20	34	28.00	20	41	51.00	21	36	25.00	20	33	15.00
<i>b</i>	0	55	52.25	0	55	52.25	0	57	56.34	0	57	56.34
<i>h</i>			30.41			30.41			30.41			30.41
<i>m</i>			4.43			3.28			4.10			4.59
<i>s</i>			2.92			2.86			2.93			2.96
<i>J</i>	21	30	58.01	21	38	49.80	21	28	58.78	21	25	49.30
<i>M</i>	21	31	42.00	21	38	35.00	21	29	42.00	21	25	57.00
<i>R</i>			-43.99			-15.20			-43.22			-7.70
<i>b</i>												
<i>e</i>												
<i>x</i>												
<i>F</i> 3424	At 21 ^h 35 ^m			- 220 ^m 27.0			At 21 ^h 30 ^m			- 229 ^m 27.9		

d	March 9						March 10			March 11		
	S. & N.			E. & N.			S. & N.			S. & N.		
<i>l</i>	20	23	25.00	20	29	13.00	21	55	32.00	20	34	31.00
<i>b</i>	0	48	0.44	0	48	0.44	0	44	4.54	0	40	8.33
<i>h</i>			30.41			30.41			20.58			30.41
<i>m</i>			6.23			5.25			0.99			4.43
<i>s</i>			2.93			2.96			2.91			2.91
<i>J</i>	21	12	5.01	21	17	52.06	22	40	1.02	21	15	17.38
<i>M</i>	21	12	51.00	21	17	55.00	22	40	48.00	21	16	5.00
<i>R</i>			-45.99			-2.94			-46.98			-47.62
<i>b</i>												
<i>e</i>												
<i>x</i>												
<i>F</i> 3424	At 21 ^h 10 ^m			-232 ^m 26.8			At 22 ^h 40			-235 ^m 29.4		
							At 21 ^h 25 ^m			-238 ^m 7.8		

1875

d	March 12			March 14			March 15			March 16		
clocks	S & N			S & N			S & N			S & N		
S	21	4	13.00	20	37	37.00	20	10	9.00	20	10	11.00
b	0	36	12.72	0	28	20.90	0	24	24.99	0	20	29.09
h			20.58			30.41			30.41			30.41
m			9.34			3.94			8.36			8.36
L			2.96			2.90			2.97			2.97
J	21	40	58.60	21	6	35.15	20	35	15.73	20	31	21.83
M	21	41	47.00	21	7	25.00	20	36	7.00	20	32	14.00
R			-48.30			-49.85			-51.27			-52.17
b												
e												
x												
F 3424	At 21 ^h 40 ^m - 240 ^m 37.8			At 21 ^h 5 ^m - 245 ^m 58.6			At 20 ^h 30 ^m - 245 ^m 36.8			At 20 ^h 35 ^m - 257 ^m 7.5		

d	March 17			March 18			March 19			March 20		
clocks	S & N			M. & S.			S. & N.			S. & N.		
S	20	24	33.00	20	5	14.00	20	51	39.00	20	24	55.00
b	0	16	33.18	0	12	37.27	0	8	44.36	0	4	45.44
h			30.41			30.41			30.41			30.41
m			6.07			9.18			1.64			6.07
L			2.91			2.96			2.89			2.85
J	20	41	45.57	20	18	33.82	21	0	55.30	20	30	19.77
M	20	42	39.00	20	19	29.00	21	1	52.00	20	31	18.00
R			-53.43			-55.18			-56.70			-58.23
b												
e												
x												
F 3424	At 20 ^h 40 ^m - 254 ^m 0.3			At 20 ^h 15 ^m - 257 ^m 42.6			At 21 ^h 5 ^m - 261 ^m 18.5			At 20 ^h 30 ^m - 265 ^m 6.4		

Compared again
- 55.23

1875

	March 21			March 22			March 23			March 24		
Clock	S & N			S & N			S & N			S & N		
S	20	37	5.00	20	34	39.00	20	44	38.00	20	24	1.00
C	0	0	49.05	23	56	53.64	23	52	57.73	23	49	1.82
h			20.41			20.41			20.41			20.41
m			3.94			4.43			2.79			6.07
n			2.98			2.89			2.90			3.00
J	20	38	31.88	20	32	10.37	20	38	11.83	20	13	42.30
M.	20	39	20.00	20	33	10.00	20	39	13.00	20	14	45.00
R			- 58.12			- 59.63			- 61.17			- 62.70
C												
e												
x												
J 3424	At 20 ^h 40 ^m - 268 ^s 45.0			At 20 ^h 33 ^m - 272 ^s 29.7			At 20 ^h 40 ^m - 276 ^s 18.5			At 20 ^h 15 ^m - 279 ^s 56.5		

	March 25			March 26			March 28			March 29		
Clock	S & N			S & N			S & N			S & N		
S	21	11	58.00				22	18	34.00	20	41	3.00
C	23	45	59.2				23	33	18.20	23	29	22.29
h			20.58						10.75			30.41
m			8.20						7.05			3.28
n			2.84						2.91			2.97
J	20	59	35.54				21	52	12.91	20	11	1.95
M.	20	58	40.00				21	53	20.00	20	12	10.00
R			- 64.46						67.09			- 68.05
C												
e												
x												
J 3424	At 21 ^h 0 ^m - 280 ^s 33.0			At 19 ^h 51 ^m - 286 ^s 9.9			At 21 ^h 55 ^m - 291 ^s 29.9			At 20 ^h 15 ^m - 293 ^s 48.1		

1875

d	March 30	March 31	April 1.	April 2
Labels	S & N	S & N	S & N	S & N
S	21 14 3.00	22 47 3.00	21 0 524.00	21 31 17.00
B	23 25 24.78	23 21 30.47	23 17 34.56	23 13 38.65
h	30.41	10.75	20.58	20.58
m	7.71	2.30	10.00	4.92
y	2.99	2.99	2.85	2.95
Y	20 40 10.49	22 8 49.51	20 19 1.99	20 45 24.10
M	20 41 20.00	22 8 50.00	20 19 50.00	20 45 30.00
R	-69.51	-0.49	-3.01	-5.90
E				
e				
e				
7.3424	At 20 ^h 45 ^m - 296 ^m 1.3 Bill 158.4	At 22 ^h 10 ^m - 297 ^m 2.7	At 20 ^h 20 ^m - 299 ^m 34.00	At 20 ^h 50 ^m - 301 ^m 18.5
d	April 4	April 4	April 5	April 7
Labels	S & N	S & N	S & N	S & N
S	3 2 34.00	21 14 49.00	21 40 14.00	1 34 32.00
B	23 5 46.82	23 5 46.82	23 1 50.92	22 53 57.11
h	3 17.51	20.58	20.58	3 37.17
m	9.67	7.71	3.45	4.43
S	2.91	2.87	2.96	2.91
Y	2 11 50.91	20 21 6.98	20 42 31.91	0 32 15.62
M	2 12 0.00	20 21 18.00	20 42 45.00	0 32 30.00
R	-9.09	-11.02	-13.09	-14.48
E				
e				
e				
7.3424	At 2 ^h 10 ^m - 303 43.3	At 2 ^h 23 ^m - 305 38.5	At 2 ^h 40 ^m - 307 50.3	At 0 ^h 30 ^m - 310 15.0

1875

d	April 7.	April 8.	April 11.	April 12
Colours	S. & N.	S. & N.	S. & N.	S. & N.
S	22 14 25.00	21 57 8.00	23 30 50.00	22 15 23.00
b	22 53 59.11	22 50 3.20	22 38 15.48	22 34 19.57
h	10.75	20.58	0.92	10.75
m	7.71	0.66	5.09	7.52
s	2.93	2.98	2.86	2.94
J	21 8 45.50	20 47 35.42	22 9 14.35	20 50 3.80
M	21 9 0.00	20 47 50.00	22 9 30.00	20 50 20.00
R	-14.40	-14.58	-15.65	-16.20
E				
e			S-E = -0.5	S-E = -1.0
x				
J. 3424	at 21 ^h 10 ^m - 312 ^m 15.8	at 20 ^h 48 ^m - 314 ^m 30.3	at 22 ^h 15 ^m - 320 ^m 6.6	at 20 ^h 50 ^m - 322 ^m 19.8

d	April 13	April 14	April 15	April 16
Colours	S. & N.	S. & N.	S. & N.	S. & N.
S	22 13 29.00	22 18 26.00	22 13 6.00	22 15 17.00
b	22 30 23.66	22 26 27.75	22 22 31.84	22 18 35.93
h	10.75	10.75	11.75	10.75
m	7.87	7.05	7.87	7.87
s	2.92	2.93	2.98	2.95
J	20 44 14.20	20 45 14.48	20 35 59.44	20 34 14.17
M	20 44 30.00	20 45 30.00	20 36 15.00	20 34 30.00
R	-15.80	-15.52	-15.56	-15.83
E				
e				
x				
J. 3424	at 20 ^h 45 ^m - 325 ^m 5.6	at 20 ^h 45 ^m - 327 ^m 35.5	at 20 ^h 35 ^m - 329 ^m 44.5	at 20 ^h 40 ^m - 331 ^m 43.6

1875

	d	April 19	April 20	April 21	April 22
	Clouds	S & N	S & N	S & N	S & N
0	S	22 13 9.00	22 26 32.00	22 38 20.00	22 38 26.00
57	C	22 6 48.21	22 2 52.30	21 58 56.39	21 55 0.49
15	h	10.75	10.75	10.75	10.75
52	m	7.87	5.74	3.77	3.77
94	s	2.97	2.91	2.94	2.93
70	J	20 20 18.80	20 29 43.70	20 37 33.85	20 33 43.94
00	M	20 20 35.00	20 30 0.00	21 37 50.00	20 34 0.00
20	D.	-16.20	-16.30	-16.15	-16.06
	E				
	e				
	z				

7.3424 At 20^h25^m-339^m 19.8 At 20^h30^m-342^m 22.5 At 20^h40^m-345^m 30.6 At 20^h50^m-348^m 2.2

	d	April 23	April 25	April 26	April 27
	Clouds	S & N	S & N	S & N	S & N
0	S	23 3 56.00	0 2 47.00	23 8 59.00	23 8 30.00
3	C	21 51 4.58	21 39 16.85	21 39 16.85	21 35 20.94
15	h	0 0.92	3 47.00	0.92	0.92
74	m	9.51	9.67	8.69	8.69
15	s	2.85	2.87	2.84	2.92
17	J	20 55 13.86	21 46 23.39	20 48 28.30	20 44 3.47
00	M	20 55 30.00	21 46 20.00	20 48 45.00	20 44 20.00
3	R	-16.14	-16.61	-16.70	-16.53
	E				
	e				
	z				

7.3424 At 20^h55^m-349^m 39.8 At 21^h45^m-353^m 23.1 At 20^h50^m-355^m 6.4 At 20^h46^m-356^m 42.1

1875.

d	April 28	April 29	April 30	May 2.
<i>S</i>	23 14 17.00	23 20 19.00	23 28 11.00	23 14 15.00
<i>C</i>	21 31 25.03	21 27 29.12	21 23 33.21	21 15 41.39
<i>h</i>	0.92	0.92	0.92	0.92
<i>m</i>	7.71	6.72	5.41	7.71
<i>S</i>	2.95	2.95	2.97	2.96
<i>J</i>	20 45 53.61	20 47 58.71	20 51 53.5	20 30 7.98
<i>M</i>	20 46 10.00	20 48 15.00	20 52 11.00	20 30 25.00
<i>R</i>	-16.39	-16.29	-16.49	-17.02
<i>C</i>				
<i>e</i>				
<i>r</i>				

J 3424 At 20^h 45^m - 358^m 30.^s At 20^h 45^m - 360^m 10.^s At 20^h 50^m - 361^m 51.^s At 20^h 30^m - 365^m 7.^s

d	May 3	May 4	May 5	May 6
<i>S</i>	23 39 45.00	23 42 57.00	23 35 42.00	23 48 20.00
<i>C</i>	21 11 45.48	21 7 49.57	21 3 53.67	20 59 57.76
<i>h</i>	0.92	0.92	0.92	0.92
<i>m</i>	3.61	3.12	4.27	2.14
<i>S</i>	2.88	2.84	2.89	2.94
<i>J</i>	20 51 37.89	20 50 53.45	20 39 43.75	20 48 23.76
<i>M</i>	20 51 55.00	20 51 18.00	20 40 0.00	20 48 40.00
<i>R</i>	-17.11	-16.55	-16.25	-16.24
<i>C</i>				
<i>e</i>				
<i>r</i>				

J 3424 At 20^h 55^m - 366^m 57.^s At 20^h 50^m - 368^m 49.^s At 20^h 40^m - 369^m 59.^s At 20^h 50^m - 371^m 27.^s

1875.

d	May 9			May 10			May 11			May 12		
S	0	36	46.00	0	12	8.00	23	54	16.00	0	2	8.00
C	20	44	14.11	20	40	18.20	20	40	18.20	20	32	26.38
h		3	47.00		3	47.00			0.92		3	47.00
m			4.10			8.03			1.15			9.67
s			2.87			2.98			2.95			2.98
J	21	24	57.08	20	56	24.21	20	34	39.22	20	38	34.03
M	21	25	10.00	20	56	14.00	20	34	55.00	20	38	50.00
R			-15.92			-15.79			-15.78			-15.97
E												
e												
x												

F. 3424 At 21° 25' - 376° 24.6 At 21° 0' - 377° 6.6 At 20° 35' - 377° 35.8 At 20° 40' - 378° 20.8

d	May 13			May 14			May 15			May 16		
S	0	17	27.00	0	11	46.00	0	15	17.00	0	7	16.00
C	20	28	30.47	20	24	34.56	20	20	38.64	20	16	42.73
h		3	47.00		3	47.00		3	47.00		3	47.00
m			7.22			8.20			7.54			8.85
s			2.92			2.87			2.95			2.95
J	20	49	54.61	20	40	18.63	20	39	53.13	20	27	57.53
M	20	50	10.00	20	40	35.00	20	40	10.00	20	28	15.00
R			-15.39			-16.37			-16.87			-17.47
E												
e												
x												

F. 3424 At 20° 50' - 379° 6.1 At 20° 45' - 379° 37.1 At 20° 50' - 381° 7.0 At 20° 30' - 382° 25.2

1875

d	May 17	May 18	May 19	May 20
d	0 16 0.00	0 25 21.00	0 35 17.00	0 29 7.00
e	20 12 46.82	20 8 50.91	20 4 54.99	20 0 59.08
h	3 47.00	3 47.00	3 47.00	3 47.00
m	7.38	5.90	4.27	5.25
s	3.00	2.94	2.95	2.98
y	20 32 44.20	20 38 7.75	20 44 26.21	20 34 1.31
m	20 33 2.00	20 38 26.00	20 44 25.00	20 34 20.00
R	-17.80	-18.25	-18.79	-18.69
E				
e				
x				

3424 At 20^h 35^m - 383^m 34.0^s At 20^h 40^m - 384^m 30.0^s At 20^h 45^m - 385^m 44.3^s At 20^h 35^m - 386^m 38.4^s

d	May 21	May 23	May 24	May 25
d	0 23 22.00	0 51 28.00	1 9 12.00	0 49 40.00
e	19 57 3.17	19 49 11.34	19 45 15.43	19 41 19.52
h	3 47.00	3 47.00	3 37.17	3 47.00
m	6.23	1.64	8.53	1.97
s	2.94	2.92	2.96	2.89
y	20 24 21.34	20 44 30.90	20 58 16.09	20 34 51.38
m	20 24 4.00	20 44 50.00	20 58 35.00	20 35 10.00
R	-18.66	-19.10	-18.91	-18.62
E				
e				
x				

3424 At 20^h 30^m - 386^m 53.8^s At 20^h 45^m - 386^m 42.6^s At 20^h 55^m - 386^m 27.0^s At 20^h 35^m - 385^m 47.1^s

1875

d	May 26			May 27			May 28			May 30		
S	1	10	39.00	0	55	0.00	1	38	12.00	1	8	52.00
C	19	37	23.61	19	33	27.70	19	29	31.79	19	21	39.97
h		3	37.17		3	47.00	0	3	37.17		3	37.17
m			8.36			11.99			37.77			8.69
s			2.89			3.00			2.96			2.85
J	20	51	51.03	20	32	18.69	21	11	27.69	20	34	21.68
M	20	52	10.00	20	32	38.00	21	11	47.00	20	34	40.00
R			-18.97			-19.31			-19.31			-18.32
E												
e												
z												

$\nabla 3424$ At $21^h 0^m - 388^m 19.0^s$ At $20^h 35^m - 388^m 3.5^s$ At $21^h 15^m - 384^m 50.8^s$ At $20^h 45^m - 388^m 24.8^s$

d	May 31			June 1			June 2			June 3		
S	1	19	36.00	1	13	51.00	1	26	19.00	2	45	28.00
C	19	17	44.05	19	13	48.14	19	9	52.23	19	5	56.32
h		3	37.17		3	37.17		3	37.17		3	27.34
m			6.89			7.87			5.74			2.63
s			2.90			2.86			2.95			2.92
J	20	41	7.01	20	31	27.04	20	39	57.09	21	54	57.21
M	20	41	25.00	20	31	45.00	20	40	15.00	21	55	15.00
R			-17.99			-17.96			-17.91			-17.79
E												
e												
z												

$\nabla 3424$ At $20^h 45^m - 388^m 44.8^s$ At $20^h 35^m - 386^m 7.3^s$ At $20^h 40^m - 386^m 34.3^s$ At $21^h 36^m - 386^m 57.1^s$

1875

d	June 4			June 6			June 7			June 8		
S	1	26	26.00	2	6	47.00	2	20	33.00	1	57	15.00
b	19	2	0.40	18	54	8.58	18	50	12.67	18	46	16.75
h		3	37.17		3	27.34		3	27.34		3	37.17
m			5.74			9.02			6.72			0.66
s			2.93			2.87			2.91			2.96
J	20	32	12.24	21	4	34.81	21	14	22.64	20	47	12.54
m	20	32	30.00	21	4	52.00	21	14	40.00	20	47	30.00
R			-17.76			-17.19			-17.36			-17.46
b												
c												
z												

$\Delta 34.24$ At $20^h 35^m - 386^m 37.3$ At $21^h 0^m - 385^m 9.2$ At $21^h 15^m - 388^m 14.2$ At $20^h 45^m - 385^m 9.7$

d	June 9			June 11			June 14			June 15		
S	1	43	30.00	3	26	36.00	3	0	31.00	0	51	18.00
b	18	42	20.84	18	34	29.02	18	22	41.28	18	18	45.36
h		3	37.17		3	17.51		3	17.51		3	47.00
m			2.96			5.74			10.00			1.64
s			2.92			2.90			2.91			2.95
J	20	29	33.89	22	4	31.17	21	26	42.70	19	13	54.95
m	20	29	51.00	22	4	48.00	21	27	0.00	19	14	12.00
R			-17.11			-16.83			-17.30			-17.05
E												
e												
z												

$\Delta 34.24$ At $20^h 30^m - 385^m 44.3$ At $21^h 30^m - 386^m 29.7$ At $19^h 15^m - 386^m 40.5$

1875

d	June 16			June 17			June 18			June 20		
S	1	15	6.00	2	28	14.00	2	46	0.00	1	24	32.00
C	18	14	49.45	18	10	53.53	18	6	57.62	17	59	5.80
h		3	37.17		3	27.34		3	27.34		3	37.17
m			7.54			5.41			2.46			6.07
s			2.98			2.96			3.00			2.91
J	19	33	43.14	20	42	43.24	20	56	30.42	19	27	23.95
M	19	34	0.00	20	43	0.00	20	56	47.00	19	27	40.00
R			-16.86			-16.76			-16.58			-16.05
L												
e												
x												

J 3424

At 20^h 40^m - 386^m 366^m At 20^h 55^m - 387^m 448^m At 19^h 30^m - 27^m 388^m
 Set back 6^h

d	June 24			June 25			June 26			June 27		
S	2	51	21.00	1	38	45.00	3	36	29.00	3	40	(26.00)
C	17	43	22.15	17	47	18.07	17	39	26.24	17	31	34.41
h		3	27.34		3	27.57		3	17.51		3	17.51
m			1.64			3.77			4.10			3.45
s			2.94			2.88			2.92			2.93
J	20	38	15.07	19	29	46.89	21	19	19.77	21	15	24.80
M	20	38	30.00	19	30	2.00	21	19	35.00	21	15	40.00
R			14.93			-15.11			-15.23			-(15.70)
L												
e												
x												

J 3424

At 21^h 20^m - 22^m 32.1 At 21^h 15^m - 20^m 3.4

1875

d	June 28			July 6			July 7			July 8		
d	3	9	37.00	4	45	12.00	4	10	42.00	4	16	29.00
b	17	27	38.49	16	56	11.19	16	52	15.28	16	48	19.37
L		3	17.51		3	7.68		3	7.68		3	7.68
m			8.53			2.63			8.26			7.38
s			3.94			2.96			2.89			2.92
J	20	40	45.47	21	44	36.46	21	6	16.21	21	8	6.35
M	20	41	0.00	21	44	50.00	21	6	30.00	21	8	20.00
R			-14.53			-13.84			-13.79			-13.65
E												
e												
r												

d	July 9			July 9			July 15			July 16		
d	4	29	40.00	4	25	48.00	4	53	53.00	5	26	8.00
b	16	44	23.46	16	36	31.62	16	20	47.97	16	16	52.06
L		3	7.68		3	7.68		3	7.68		2	57.85
m			5.25			5.90			1.32			5.74
s			2.89			2.87			2.85			2.98
J	21	17	19.28	21	5	36.07	21	17	52.82	21	46	6.63
M	21	17	33.00	21	5	50.00	21	18	8.00	21	46	22.00
P			-13.72			-13.93			-15.18			-15.37
E												
e												
r												

July 18 Cord of N. Clock broke

1875-

d	July 20.			July 20			July 21			July 23		
S	14	47	47.00	3	47	0.00	4	33	38.00	4	9	16.00
b	16	5	4.33	16	1	8.42	15	57	12.51	15	49	20.68
h		1	29.39		3	17.51		3	7.68		3	7.68
m			2.30			2.30			4.59			8.53
s			2.87			2.00			2.90			2.95
J	6	54	25.89	19	51	31.23	20	34	5.68	20	1	55.84
M	6	54	40.00	19	51	46.00	20	34	20.00	20	2	10.00
R			-14.71			-14.77			-14.32			-14.16
b												
e												
x												

N Clock. next.

next

d	July 24			July 24			July 25			July 26		
S	17	29	0.00	5	30	30.00	3	53	20.00	4	2	25.00
b	15	49	20.68	15	45	24.77	15	41	28.87	15	37	32.94
h		0	59.90		2	57.85		2	47.51		3	7.68
m			5.25			5.09			1.32			7.67
s			3.00			2.92			2.94			2.93
J	9	19	28.83	21	19	0.63	19	38	10.64	19	43	18.22
M	9	19	43.00	21	19	15.00	19	38	25.00	19	43	32.00
R			-14.17			-14.37			-14.36			-13.78
b												
e												
x												

1875

d	July 27			July 28		
d	4	1	34.00	4	20	58.00
c	15	33	37.03	15	29	41.12
h		3	7.68		3	7.68
m			9.84			6.72
s			2.91			2.84
J	19	38	31.46	19	53	56.36
M	19	38	45.00	19	54	10.00
R			-13.54			-13.64
C						
e						
x						

1875phae.proj..359.

The image shows the front cover of an antique book. The main surface is covered in marbled paper with a complex, repeating pattern of small, interlocking, teardrop-like shapes in red, blue, and yellow/gold. The cover is heavily worn, with a large section of the top-left corner missing, revealing a brownish, textured material underneath. The right edge shows a vertical strip of reddish-brown material, possibly leather or cloth, which is the spine binding. The overall appearance is aged and historical.