

M 35

(marked June 4, 1877)

KG

11365

282

Eclipse.
April 25th 46.
Portland

12 1/2
 KG 11365.282

ⁿ
 Husk's repab. of
 Sweden - J's Memorabilia
 Otis Clapp, Boston,
 School St.
 1 - no. of Spirit Ray



Lat. $43^{\circ}40'$ north —

var. $11^{\circ}05'$ west

Chr. 45-6 — Lethland
Davis Co —

gains daily 2 seconds.

telescope, a 47 inch refractor
parallactically mounted, Lully,
Newbury — ($3\frac{1}{2}$ in obj. glass?)

Portland —

apr. 24-25. 1846

Note. In computing the
 1^{st} & 5^{th} mins are to
be omitted unless the value
of the intervals is determined

They were not used
May 16th —

April - 24th -

Frank

Measuring of Level -
+ End West -

West	2	7
East	3	6
West	3	
East	2	15

+ End East -

West	2	5
East	3	15

+ End West

West	2	16
East	3	2

+ End East

West	2	6
East	3	15

Silt of start —

B Lewis			2 16.5
X-1	2. ⁴ 19 ^{norm}	29.5	18. 39.5
2		58.	18. 24
3	18	28.	5 12.6
4		8-4	1 23
5	19.	24	18. 27.66
			24
			42

	y Mr. Maj-			
	2 m s			
1	2, 21, 22.5-			
2	22, 10.			
3	23.		2, 59.5	
4	49.5	27. 59. 53	44	
5	24, 33.		15. 9	

4, 55.0
272 - 59 - 00

Apr. 24th -

J Corvi -

	h	m	s
1	3	02	24.5-
2			54
3	3	25	
4		56	
5	4	24.5-	

Reading level -
x end East.

East -

3 18

West -

2 14

x end west

East II

3 5

West -

2 7

x end East

East -

3 19

West -

2 17

x end West

East -

3 7

West -

3 4.5

John - Arch, East -

Transits of Stars -

S.P. - a Cassio. L.C. -

	h	m	s
1	3	04	07.13-
2			04-5-
3	05	4	04.5-
4	09	27	05-
5	10	27	05-

The readings on the
 opp. page were after
 the above was obs'd. in
 of Cass. The Instr. was then
 reversed -

April 24th -

12. Can - Ven -

h m s

- | | | | |
|---|----|-----|--------|
| 1 | 3. | 24- | 44.5- |
| 2 | | 25- | 16.5- |
| 3 | | | 5.3.5- |
| 4 | | 26. | 30.5- |
| 5 | | 27. | 7. |

~~a. Ven (Spec)~~

Polaris - Sub Pol.

h - m s -

- | | | |
|---|--------|---------------------------------|
| 1 | Last - | ^{not} (to be computed) |
| 2 | h | m |
| 3 | 3. | 39 - 07.5- |
| 4 | | 54 - 03.5- |
| 5 | 4-13- | 14. |

Transit of stars -

 α (Spica) Virginis.

Ull. aris. West

	h - m , s.
1	3 - 53 .09.
2	. 35.
3	54, 03.
4	, 32
5	55, 00 -

 Quad Reading of level
 at 4 - 12/11/12

+ end East -

East -

4 2

West

2 15-

+ end West

East

3 8

West

3 8

+ end East

East

4 15-

West

2 15.5-

+ end West

East

3 10

West

3 7.5

Apr. 24. ¹⁴/₅ Transits of stars -

η Urs. Maj.

h - m - s.

1	4 - 17 - 00.5-
2	40.
3	18, 25.
4	19. ~~19~~ 5-
5-	53.5-

η Bootis

h - m - s.

1	4 - 23 15
2	45
3	24, 15.5-
4	45.
5-	25, 15.5-

N.B. - The final reading of
the level after all the
transits is on the preceding
page -

Eclipse -

First Contact, Apr 25

$\begin{array}{r} 4-10-21 \\ 11-22-13.83 \end{array}$
 $\begin{array}{r} 4-10-21 \\ 11-22-13.83 \end{array}$
 $\begin{array}{r} 4-10-21 \\ 11-22-13.83 \end{array}$

Microm. meas. of Cusps

 $\begin{array}{r} 4-12-46 \\ 11-24-38.83 \end{array}$

7 R. A 84 11-24-38.83
 B. 55.5

$\begin{array}{r} 4-15-21 \\ 4-48, 07.17 \\ 11.27.13.83 \end{array}$
 10 R. { A 11 3
 B. 98

$\begin{array}{r} 4-17-31.5 \\ 4-48, 07.17 \\ 11.29.14.33 \end{array}$
 12 R. a 94.25 4
 B. 00.

$\begin{array}{r} 4-18-49.8 \\ 4-48, 07.2 \\ 11.30.42.6 \end{array}$
 12 R. a 40. 5
 B 00

$\begin{array}{r} 4-20-16.5 \\ 4-48, 07.2 \\ 11.32.09.3 \end{array}$
 13 R. a 49 6
 B. 00

$\begin{array}{r} 4-21-18.5 \\ 4-48, 07.2 \\ 11.33.11.3 \end{array}$
 14 R. a 85 1/2
 B 00

4-23-06.3 14 R a 9
 4-48.07-2
 11.34.59.1 B 00

4-23-56.5 15 R a 62
 4-48.07-2
 11.35.49.3 B 00

R. Ascension
 first cusp

4-25-46.5 = 11.37.39.3

4-26-38.5 2 cusp.
 11.38.31.3

4-27 48 micrometers.

R. Ascension.

4-30-05.5 1st Cusp 11-41-58.3
 4-31 09 2nd " 11-43-01.8

4-32-16 2nd Limb
 4-48.07-2
 11.44.08.8

Micrometer Meas.

dip dec -

4-33-07.5 Lower Limb + (12)
 4-48.07.2 Lower Cusp
 11.45.00.3

20 R. A 77 B. 83.5
 12 (2)

R. Ascension

X-35-09.5 Xst Cusp \

4-35-40.5 11-49-33.3 14 (3)
 first Cusp
 4-36-54.3 2^d 11-48.47.1

4-37-52 2^d Limb 11-49-43.8

Micrometer Meas.

dip dec

4-39-43.5 Lower Limb
 4-48.07.2 + Lower Cusp
 11.57.36.3

19 R. A. 88.25 B. 62

11-55.07.5 16 (5)
 4-43 14.5 Moons Low Limb
 19 R. A. 93. B 31.5 Upper Cusp

R. Ascension

17 (6)

4-44-22, 5 1st Limit 11.56.18.3

4-44-23 1st Corp 11.56.18.8

4-45-48, 5 2^d Corp 11.57.41.34-46-34 2^d Limit 11.58.26.84-57-26 (12.03.18.8) 1st Limit 18 by4-57-31 (12.03.23.8) 1st Corp4-53-12, 5 2^d Corp 12.05.25.34-53-36. 2^d Limit 12.05.28.84-55-24, 5 Lower Limit
of Sun & Moon

19 (8)

Micrometer.

Upper Corp

5-06-15 + Low. Limit of

4-48. 07.3

Moon

12.18.07.8

6 R. A. 85.5 13 65

R. Ascension

20 (41)

12.21 - 11.3 }
 5-09-18.5 } $S \frac{8}{11}$ 1st Limit
 5-09-26-12.21-18.8 1st Cusp

5-11-20.12.23.12.82[?] Cusp
 5-11-27.5.12.23.20.32[?] Limit
 12.23. 20.1.3

21 (40)

5-12-02, 5.12.23.55.31^s Limit
 5-12-10.12.24.02.8 1st Cusp

12-26.. 57.1 }
 5-15-04.3 } 2nd Cusp
 5-15-12.5 } 2nd Limit
 12.27-05.3

22 (41)

Micrometer Meas.

(Point omitted) only Dec

5-16-07-12.27.59.8
 15 R A 71.5 B 56.5

23 (42)

R. Ascension

5-23^x-03.8-12.29, 1st Limit 56.6
 5-23^x-10.5 12.30, 1st Cusp 03.3

+ a mistake in marking undoubtably,
 for '24' read 78 - 18.11.11

R. Ascension Con.

12. 31 - 8.9.8	} 2 ^o Camp	14
4-20-07		
4-20-13.5		
12. 32. 06.3	} 2 ^o Limit	24
12. 33. 16.8		
5-21-24		
5-21-32	} 1 ^o Camp	14
12. 33. 24.8		
12. 35. 21.8		
5-23-29	} 2 ^o Camp	25
5-23-34		
12. 35. 26.8		
12. 37. 22.8	} 1 ^o Limit	14
5-25-30		
5-25-41.5		
12. 37. 34.3	} 1 ^o Camp	14
12. 39. 30.8		
5-27-38		
5-27-43	} 2 ^o Limit	
12. 39. 35.8		

Delayed by an accidental
 al derangement of the telescope
 C.H.D.

R Arcturus

$12, 55-28.8$ } 26 ~~45~~
 $5-43-36$ } 1st Limb
 $5-44-05$ } 1st Cusp
 $12, 55-57.8$ }

$5-45-57.8$ } 2nd Cusp
 $12, 57-43.8$ }

$1-03-16.3$ } 27
 $5-57-23.5$ } 1st Limb. 76
 $5-52-04.8$ } 1st Cusp.
 $1-03-57.6$ }

$5-53-39.2$ } 2nd Cusp
 $1-05-31.0$ }

$1-09-11.1$ } 28
 $5-57-18.3$ } 1st Limb
 $5-58-17.5$ } 1st Cusp
 $1-10-10.3$ }

$5-59-27.8$ } 2nd Cusp
 $1-7-19.8$ }

$1-12-139.8$ }
 $6-00-47$ } 1st Limb. 78
 $6-01-56$ } 1st Cusp. 29
 $1-13-48.8$ }

$6-02-56.8$ } 2nd Cusp.
 $1-14-49.6$ }

Micrometer

30 14

6-08-56.5 Dis. of Curps
 4-48.07.2
 1-20.49.3
 20 R. A 11 B 21

6-12-32 Dis. of Curps
~~A 11 - B 31~~

R. Ascen 31 20

1-26-12.8 }
 6-14-20 } 1st Limit
 6-15-48.2 } 1st Curp
 1-27-41.0 }

6-16-28.5 } 2^d Curp
 1-28.21.3 }

1-28.53.8 }
 6-17-01. } 1st Limit 21
 6-18-32.5 } 1st Curp 32
 1-30-25.3 }

6-19-10.5 2^d Curp
 4-48-07.2
 1:31.03.3

X

Micrometer

33 ~~42~~

6-20-43.8 Dis. bet. Camps
 $\begin{array}{r} 4-48. \quad 07-2 \\ 1.32 \quad .36.6 \end{array}$
 20 R. A 61.5 B. 42.25

34 ~~23~~

6-23-08.2 Dis. Camps
 $\begin{array}{r} 4-48. \quad 07-2 \\ 1.35 \quad .01.0 \end{array}$
 19 R. A 61.5 B. 61.5

35 ~~44~~

6-25-10 Dis. bet. Camps
 $\begin{array}{r} 4-48. \quad 07-2 \\ 1.37 \quad .02.8 \end{array}$
 18 R. A 61.25 B 61.5

36 ~~45~~

6-27-36.3 dis. bet. Camps
 $\begin{array}{r} 4-48. \quad 07-2 \\ 1.39 \quad .29.1 \end{array}$
 17 R. A 98 B. 00

37 ~~46~~

6-29-44.5
 $\begin{array}{r} 4-48. \quad 07-2 \\ 1.41 \quad .37.3 \end{array}$
 16 R. A 12.5 B 00

1.43.42.8

4-48.07-2

6-31-50 dis. he. Camps

15 R a 97.5 B.00

38 ~~24~~

6-34-42.2
4-48.07-2

do

39 ~~28~~

1.46.35.8

14 R A 67 B.00

6-35-23
4-48.07-2

do

40 ~~29~~

1.47.15.8

13 R A 53.5 B.00

~~49~~

6-37-56
4-48.07-2

do

41 ~~30~~

1.49.48.8

10 R A 40 B.00

4-48.07-2

6-38-47.8

do

42 ~~31~~

10 R

A 71

B.00

1.50.40.6

6-48.07.2
~~4-48.07.2~~

1.52.00.0

8 R

A 21,5

B.00

45 ~~34~~

4-48.07.2

6-40-50,5

1.52.43.3

7 R

A 50

B.00

44

~~33~~

4-48.07.2

6-40-38,5

1.52.31.3

6 R

A. 42,5

B.00

45 ~~34~~

4-48.07.2

6-42-43,8

1.54.36.6

4 R

A 59,5

B.00

46 ~~35~~

6-43 15 = 1.55.07.8

3 R

A 79

B.00

47 ~~36~~

Last Contact

48 ~~37~~

6-43-36,5

4-48.07.2

1.55.29.3

6-43-36,5

~~4-48.07.2~~

~~1.55.32~~

diameter of Sun

~~28 R.~~ 36 R Inverse - 31. R.
A. 39, 25 B. 22, 25

Thermometer

45.5 - 44.5 - 43 -
44 - 47. -

Note. The reading for
diameter of $\odot$ is probably
31. R. etc. which agrees
very nearly with Mr.
Bond's determination.

Calculate the $\odot$'s alt.
+ look at table refractions
in Reason -

47.0 hrs²⁴ - in all -

N. 12. In numbering the
obs. ^{vs} I have made a mis-
take at 13. from that no.
the figure should be less
by one -

$$\begin{array}{r} 450 \\ 35 \\ \hline 2250 \\ 1550 \\ \hline 15750 \end{array}$$

$$\begin{array}{r} 1350 \\ 225 \\ \hline 1575 \end{array}$$

Handwritten text, possibly a signature or name, written in cursive script.

Handwritten text, possibly a date or reference, written in cursive script.