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for not J

at J

1855

January 5 No spots on sun. Disc covered with faculae - Hazy

January 8 At 1^h.25^m P.M. observed sun with Mr W.C. Bond. No spots on disc and though covered with faculae no prominent ones - At 2^h.30 P.M. observed it again alone, with same results.

January 20th 1855

Distance of wires A - B

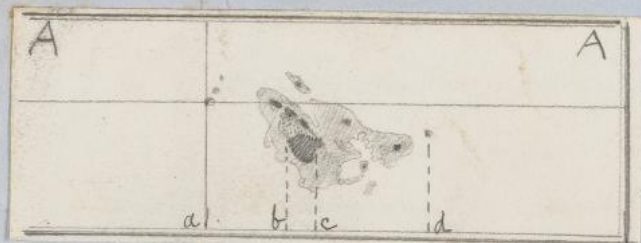
B. II

21 ^h .	I	a	b	c	d		
1 st wire	25 ^m 53 ^s .3	26 ^m 6 ^s .8	11 ^s .2	12 ^s .9	19 ^s .1	27 ^m 50 ^s .8	28 ^m 12 ^s .9
2 ^d wire	26 ^m 22 ^s .4	lost	lost	lost	lost	28 ^m 19 ^s .7	42.0
A to B	29 ^s .1					28.9	29 ^s .1
1 st wire	29 ^m 12 ^s .0	25 ^s .2	29 ^s .9	31 ^s .25	37.7	30 ^m 9 ^s .1	31 ^s .1
2 ^d wire	41 ^s .2	54.18	58.9	60.1	30 ^m 6 ^s .6		
A to B	29 ^s .2	28 ^s .98	29 ^s .0	28 ^s .85	28 ^s .9		
1 st wire	32 ^m 6 ^s .0	19 ^s .0	23 ^s .8	25 ^s .1	31 ^s .4	34.2 ^s .8	25 ^s .0
2 ^d wire	34 ^s .8	48.0	52.5	54.0	33 ^m 0.3	31 ^s .7	54.0
A to B	28 ^s .8	29.0	28.7	28.9	28.9	28.9	29.0
	37 ^m 7 ^s .3	20 ^s .3	25 ^s .3	26 ^s .8	32 ^s .95	39 ^m 4 ^s .7	27 ^s .0

Distance of wires = U - B

1 st wire	46 ^m 55 ^s .25 ^x	47 ^m 7 ^s .6	12 ^s .3	13.5	19 ^s .95	51 ^s .6	14 ^s .0
2 ^d wire	43 ^s .6	56 ^s .3	47 ^m 1 ^s .0	2.3	8.8	lost	lost
	48.35	48.7	48.7	48.8	48.85		

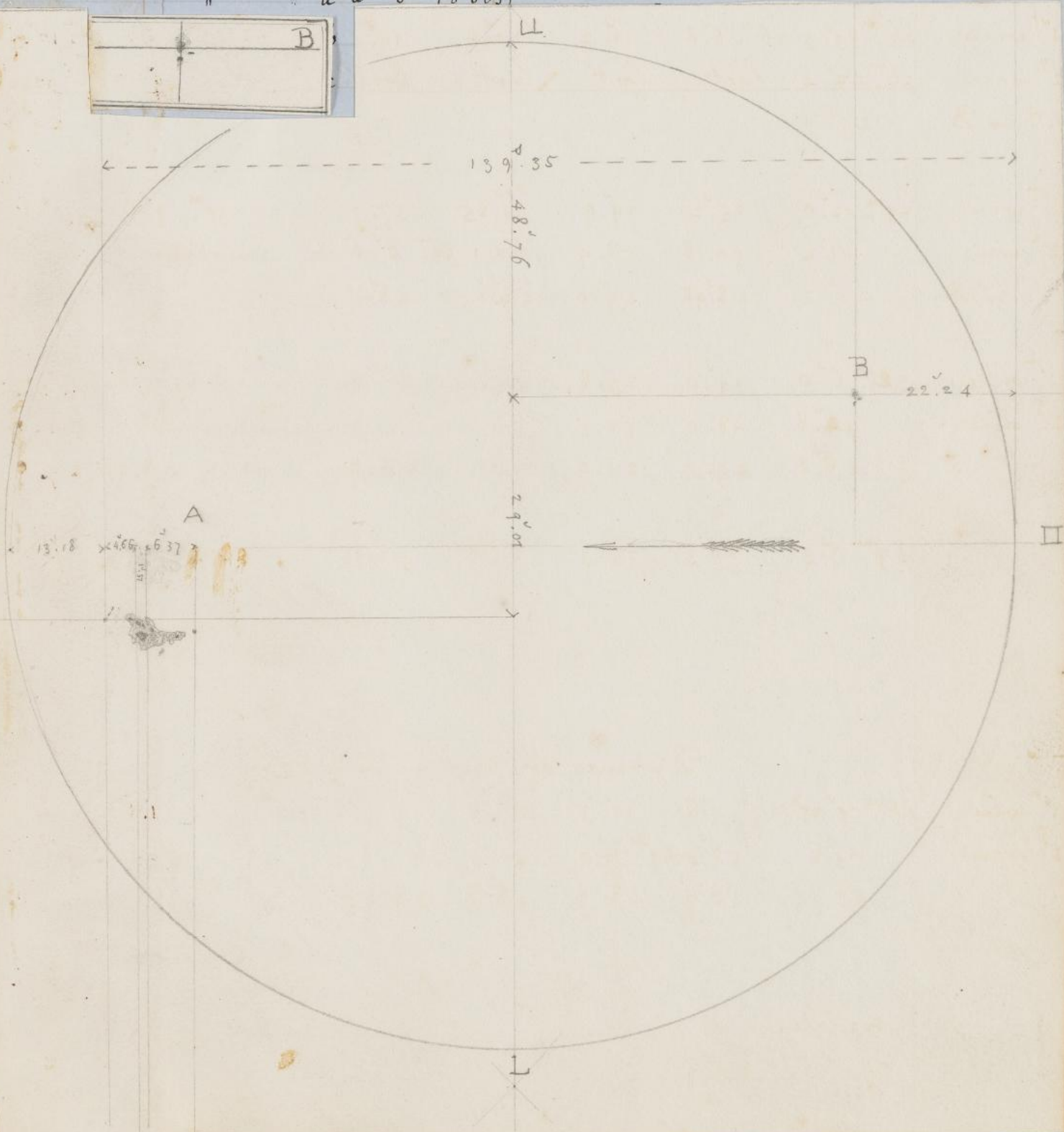
* too late.



(4)

obs.)

a a 0 18 obs)



January 20th 1855

Distance of wire

21^{h.}

1

a

b

c

a

^m2. 19.35 diamètre du soleil (4)

13^s. 18 distance de 1 à a (6 obs.)

4^d. 66 " a à b (8 obs)

1^d. 37 " b à c (8 obs)

6^d. 37 " c à d (8 obs)

22^s. 24 distance de B à II (8 obs)

48^s. 76 distance de u à B (4 obs)

29^s. 01 " B à A (15 obs)

Les taches furent dessinées sous le numero 113 à, à peu près, 2
pieds du telescope

La partie de la tache produite était d'un jaune de chrome vif.

1855

January

25th

Sun's disc covered with faculae. Near the west limb there appears to be a very faint spot when projected on paper. As seen directly could not discern any. Seeing very bad.

January

27th

Examined the sun at 10 o'clock A.M. There were no spots—disc covered with faculae. At twelve it was cloudy.

January

30

At 11^h. 23^m. examined the sun. Could detect no spot whatsoever. The faculae, which cover ~~very~~ the whole disc, are small.

January

31

No spots and very slight faculae on sun.

February

1st

At 9 A.M. no spots on disc. The faculae are small and faint.

February

6th

No spots. near ~~west~~ ^{east} limb a white faculae

February

7th

12.) a spot near east limb; probably the white faculae of yesterday. Clouded up before I could measure its distance from limbs. Faculae very faint.

10th Febr.
1855

Distance of microm. wires = A B

I A B II

22 ^h	a	b	c	d			
1 st wire	35 ^m .41 ^v .7	37 ^m .18 ^v .8	37 ^m .20 ^v .5	37 ^m .22 ^v .9	37 ^m .25 ^v .0	37 ^m .56 ^v .0	37 ^m .56 ^v .0
2 ^d wire	36 ^m .5 ^v .8	3	37 ^m .44 ^v .6	37 ^m .46 ^v .8	37 ^m .48 ^v .8	38 ^m .10 ^v .2	38 ^m .20 ^v .1
A to B	24 ^v .1		24 ^v .1	23 ^v .9	23 ^v .8		24 ^v .1
1 st wire	38 ^m .49 ^v .3	40 ^m .26 ^v .4	40 ^m .28 ^v .2	40 ^m .30 ^v .3	40 ^m .32 ^v .6	40 ^m .56 ^v .3	41 ^m .3 ^v .6
2 ^d wire	39 ^m .13 ^v .0	40 ^m .50 ^v .3	40 ^m .51 ^v .9	40 ^m .54 ^v .2	40 ^m .56 ^v .3	41 ^m .18 ^v .0	41 ^m .27 ^v .4
A to B	23 ^v .7	23 ^v .9	23 ^v .7	23 ^v .9	23 ^v .7	7	23 ^v .9
1 st wire	42 ^m .30 ^v .5	43 ^m .42 ^v .1	43 ^m .46 ^v .3	43 ^m .48 ^v .8	43 ^m .48 ^v .3		44 ^m .19 ^v .5
2 ^d wire	42 ^m .29 ^v .1	44 ^m .6 ^v .2	44 ^m .10 ^v .1	44 ^m .10 ^v .1	44 ^m .12 ^v .4	44 ^m .34 ^v .0	44 ^m .43 ^v .4
A to B	24 ^v .0	24 ^v .1	23 ^v .8	26 ^v .2	24 ^v .1		23 ^v .9

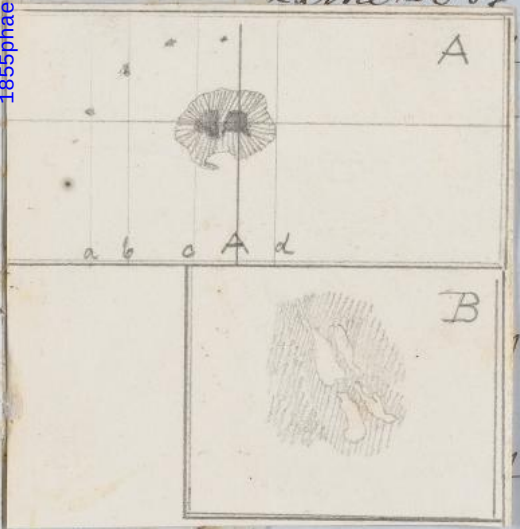
Distance of wires = A U

1 st wire	52 ^m .15 ^v .2	53 ^m .52 ^v .0	53 ^m .53 ^v .8	53 ^m .56 ^v .1	53 ^m .58 ^v .2	lost	54 ^m .29 ^v .5
2 ^d wire	53 ^m .16 ^v .1	54 ^m .52 ^v .9	54 ^m .54 ^v .5	54 ^m .57 ^v .0	54 ^m .59 ^v .0	lost	55 ^m .30 ^v .3
A to U	1 ^m .0 ^v .9	1 ^m .0 ^v .9	1 ^m .0 ^v .7	1 ^m .0 ^v .9	1 ^m .0 ^v .8		1 ^m .0 ^v .8

Distance of wires = B U

1 st wire	58 ^m .41 ^v .5	0 ^m .18 ^v .2	0 ^m .19 ^v .9	0 ^m .22 ^v .3	0 ^m .24 ^v .5	0 ^m .45 ^v .9	0 ^m .55 ^v .7
2 ^d wire	59 ^m .21 ^v .6	0 ^m .58 ^v .6	0 ^m .21 ^v .1	0 ^m .26 ^v .1	0 ^m .48 ^v .1	0 ^m .26 ^v .2	0 ^m .35 ^v .9
B to U	24 ^v .0	40 ^v .4	40 ^v .3	40 ^v .3	40 ^v .3	40 ^v .3	40 ^v .2

diameter of sun - 6 obser. from 1st series



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the P. ...

1
2
A
1
2
3
1
2
3
1
2

21 16.0 41.2

2
1

2^{nd} $14^{\text{h}}.33$ diameter of sun - 6 obs. from 1st series
 1^{st} $37^{\text{h}}.12$ distance of I from a - 5 obs. from 1st series
 1^{st} 70 " of a from b - 3 obs. from 1st series
 1^{st} 25 " of b from c - 4 obs. from 1st series
 2^{nd} 13 " " c from d - 4 obs. from 1st series
 21^{st} 65 " of d from B - 2 obs. from 1st series
 9^{th} 64 " of B from II 3 obs from 1st series and 2 from 3rd.

$23^{\text{h}}.93$ distance of A from B 15 obs from 1st series

$60^{\text{h}}.83$ distance of u from ~~ab~~ 6 obs from 2^d series

$40^{\text{h}}.27$ distance of u from B

From distances of 1-a-b-c-d-B The first series was used as the others give too small a value, compared with it

Feb 28thMarch 6th 1855March 1st

Very windy, passing clouds. 3 small spots could not distinguish any faculae sun being behind thin cumuli.

A

B

C

D

Dist = a c	1	a	b	c	d		
1 st wire	23.12 ^h 35.3 ^v	47.1	50.8	14.12.9 ^w	21.1	41.05	45.2
2 nd "	43.8	55.6	59.0	16.0	24.3	49.5	53.7

Dist = c. e

1 st wire	23.16.26.9 ^h	lost	42.2	lost	lost	lost	lost
2 nd wire	38.2		53.3	lost	lost	lost	lost

Dist = e. u. 2

1 st wire	23.24.56.5 ^h 25.8.2 ^v		11.8	34.3		2.6	6.6
2 nd wire	47.6	59.1	2.7	28.2?		53.5	57.9

March 7 Overcast.

March 12 Overcast.

March 13 Overcast.

March 14 Overcast

March 15 Snowing Thursday.

March 16 Overcast Friday

March 17 Overcast Saturday

March 19 ~~No~~ spots on sun-disk ^{at 12 $\frac{1}{2}$} covered with ^{light} faculae - good seeing

March 20

March 21 } went to Portland Me.

March 22 }

March 23 Friday clouded up before 12 AM

March 24 Saturday clouded up before 11 AM

March 25 Sunday one small sp

- March 26 One small spot on disc. Could not obtain any measurement of its position or distance from limbs as clouds were continually ~~padding~~.
- March 27 Tuesday Sun not observed as battery ~~game~~ does not act.
- March 28 Two insignificant spots near centre.
- March 29 No spots on sun disc covered with faculae
- March 30 Two small spots between limb I and centre.
- April 7 Observed Sun with Lerebours saw no spots on it
- April 11 cloudy
- April 12 Cloudy
- April 13th no spots on sun.
- April 23^d no spots on sun. disc covered with faculae
- April 24th overcast.
- April 25 misty.
- April 26 raining
- April 29th Cloudy.
- May 1st Rain - overcast
- 2nd overcast

May 2^d. 1855.

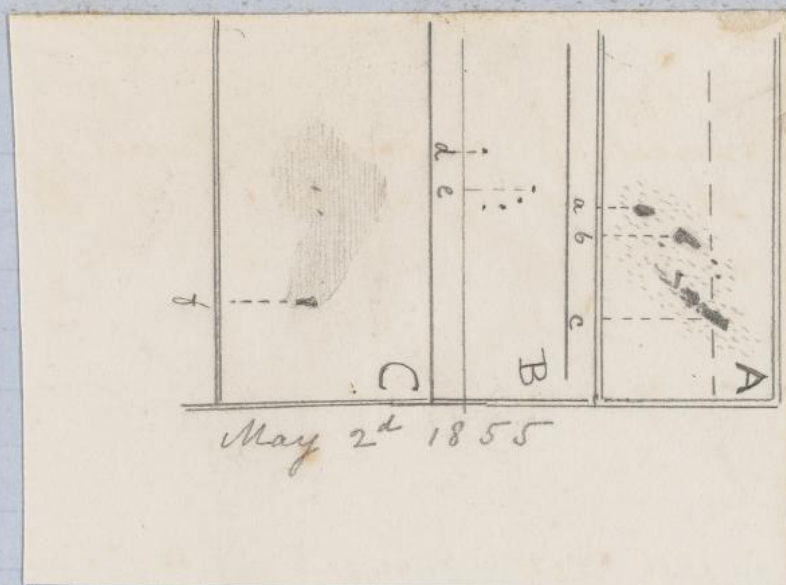
Distance of micrometer wires = A c

		A	A	A	~~B~~ B	B	C	
2 ^h .	I	a	b	c	d	e	f	II
1 st wire	2 ^u 36 ^v 5	3 ^u 39 ^v 3	3 ^u 40.25		—	—	4.27.7	4 ^u 49 ^v 8
2 ^d wire	39 ^v 7	3 ^u 42.67	43.6	3 ^u 44 ^v 45	—	—	34.2	53 ^v 3

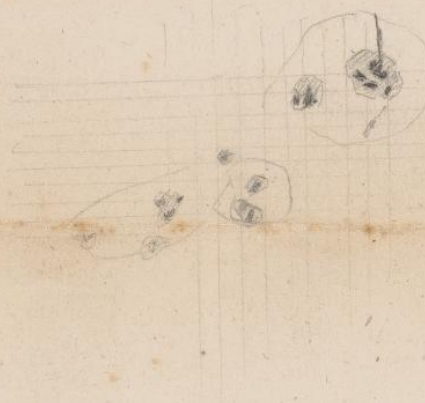
1 st wire.	5 ^u 36 ^v 25	6 ^u 37.8	6 ^u 38.6	6 ^u 41.30	6 ^u 57.6	7 ^u 0 ^v 40	7 ^u 26.25	7 ^u 48.4
2 ^d wire.	5 39.70	42.0	42.6	46.057	1.0	7.3.90	29.70	52.0

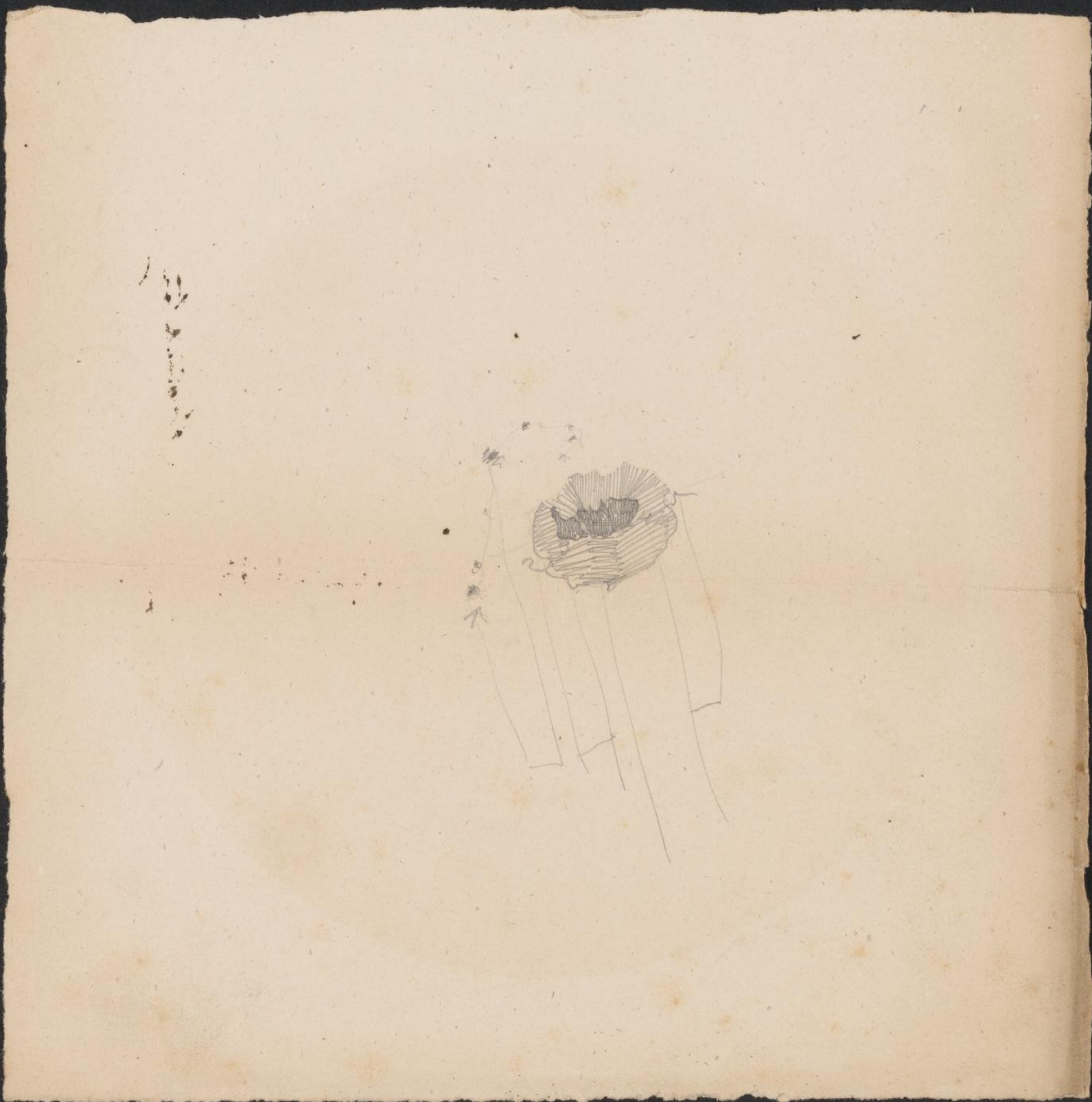
Distance of micrometer wires = U-c

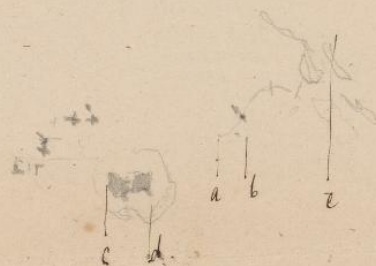
1 st wire	15 ^u 0 ^v 20	16 ^u 1 ^v 90	16 ^u 2 ^v 60	16 ^u 6 ^v 40	16 ^u 21 ^v 25	16 ^u 24 ^v 30	16 ^u 50 ^v 0	—
2 ^d wire	49.80	51.20	52.20	56.00	—	—	17.39.7	18.1.75



2 March 55.







A

13^h 12^m — 15^m Sidereal time

21st Nov. 1854

1st $86 = 3^{\circ}.2$ W

(B)

7°.0 South of centre

2^d $546 = 21^{\circ}.6$ W

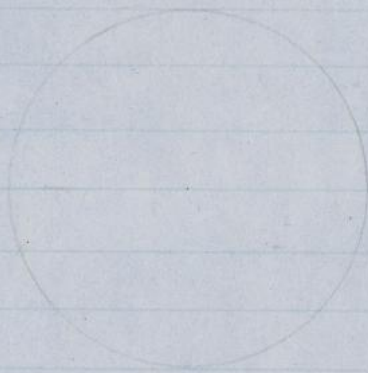
(C)

30

3^d $42.56 = 17^{\circ}.0$ W $15.6 = 6^{\circ}.E$ (A)

30°.30' North of centre

Sun's diameter = $32'.28''.2 = 77.6.64$ b.



ba f/m

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