

KG
11366
v. 659

Chronograph Record.

From Feb. 7, 1883 to May 29, 1883

PSL 7 1883

For notes preliminary
to the present series of
observations see page
g Collinson's paper on sunspots

Feb. 8, 1883

	From	To
No. 1 = 1	0 ^h 57 ^m	2 ^h 59 ^m
" 2 = 2	4 25	6 37
" 3 = 3	15 16	16 39
" 4 = 4 Clock Comp. only.	16 42	18 28

Lamp illumination of microscopes

Feb. 9, 1883

No. 1 = 5

From	To
21 ^h 19 ^m	21 ^h 38 ^m

Lamps illuminated

Feb. 10, 1883

No. 1 = 6

21^h 24^m to 21^h 43^m

~~last~~
Mr. Singer set up & closed
boxes for gas illumination of
Microscopes.

Feb. 11, 1883

W. 1-7

" 2-8

15^h 29^m to 16^h 55^m

18 24 " 19 23

So illumination first time
experimentally.

Feb. 12, 1883

No. 1 = 9	21 ^h 32 ^m	~~to~~	21 ^h 48 ^m
" 2 = 10	0 53	~~to~~	2 56
" 3 = 11	4 30	~~to~~	6 16
" 4 = 12	15 15	~~to~~	17 1
" 5 = 13	18 22	~~to~~	19 13

Gas ill.

Feb. 13, 1883

No. 1 = 14

21^h 35^m ~~to~~ 21^h 52^m

" 2 = 15

0 54 ~~to~~ 1 58

" 3 = 16

3 31 5 36

" 4 = 17

5 37 6 43

" 5 = 18

14 40 16 33

" 6 = 19

16 37 18 36

Feb. 17, 1883

No. 1 = 20

21^h 46^m to 22^h 9^m

" 2 = 21

3 5 " 5 12

Change of ~~length~~ of burner
for gas jets.

The illumination is now pretty fair
but the prisms need a adjust-
ment - which will be done in
a day or two. The waste pipes
for carrying off the heat are put in

Feb. 18, 1883

No. 1 = 22

" 2 = 23

1

8

~~16~~

3

12

16

3

16

40

Set-1327 a Lead 4 minutes
01-19^h 30^m

Feb. 19, 1883

No. 1 = 24

" 2 = 25

" 3 = 26

22 2 ~~8~~ 22 18

1 0 " 2 22

4 38 " 6 30

Feb. 20, 1883

No. 1 = 267

" 2 = 28

22 4 ~~4~~ 22 26

16 21 " 17 38

Feb. 21, 1883

No. 1 = 29

1 2230

" 3 = 31

22 12 ~~2~~ 22 28

0 54 " 1 37

4 30 6 47

Feb. 22, 1883

No. 1 = 32

" 2 = 33

22 12 to 22 36

15 57 17 40

Feb. 23, 1883

No. 1 = 34

" 2 = 35

" 3 = 36

" 4 = 37

" 5 = 38

22 17 ~~18~~ 22 34

1 6 " 1 35

4 30 6 36

6 38 7 37

16 19 17 40

Feb. 24. 1883

No. 7 = 39

22 19 ~~to~~ 22 39

" 2 = 40

1 6 1 37

" 3 = 41

41 41 6 37

" 4 = 42

6 38. —

Feb. 25, 1883

No. 1 = 43

6 3 ~~to~~ 18 6

Feb. 26, 1883

No. 1 = 44

" 2 = 45

" 3 = 46

" 4 = 47

0 41 ~~45~~ ¹ 54

4 35 5 39

6 12 6 47

15 48 17 36

Feb. 27, 1883

No. 1 = 48

" 2 = 49

" 3 = 50

22 32 5 22 52

0 43 2 5

2 46 4 26

Feb. 28, 1883

No. 1 = 51

0 45 1 51

" 2 = 52

" 3 = 53

4 56 6 46

" 4 = 54

15 53 17 47

Mar, 1, 1883

W, 1 = 55

" 2 = 56

" 3 = 57

22 12 to 22 55

3 5 5 38

5 40 7 20

Mar. 2, 1883

No. 1 = 58

" 2 = 59

" 3 = 60

" 4 = 61

" 5 = 62

22 48 ~~to~~ 23 19

0 51 2 10

3 24 5 23

5 24 7 30

7 32 8 10

Mar. 3, 1883

No. 1 = 63

22 50 ~~8~~ 23 3

" 2 = 64

1 4 1 53

" 3 = 65

4 51 6 47

" 4 = 66

17 35 19 7

Mar. 4, 1883

no. 1 = 67

" 2 = 68

" 3 = 69

" 4 = 70

22 54 ~~23~~ 15

6 8 6 56

16 48 18 2

18 29 19 59

Mar. 5, 1883

No. 1 = 71	22 54	*	23 10
" 2 = 72	0 58		2 6
" 3 = 73	5 16		7 17

Mar. 7, 1883

No. 1 = 74

" 2 = 75

" 3 = 76

" 4 = 77

" 5 = 78

23 4 ~~to~~ 23 19

1 4 2 0

5 37 6 8

7 3 8 14

17 21 17 40

Mar. 8, 1883

No. 1 = 79

23 12 to 23 24

" 2 = 80

5 27 6 24

" 3 = 81

6 41 7 44

" 4 = 82

17 0 18 18

Mar. 9. 1883

No. 1 = 83	23	10	23	26
" 2 = 84	0	10	3	18
" 3 = 85	3	19	4	52

Mar. 11, 1883

No. 1 = 86

17

51

to

18

53

Mar. 12, 1883

No. 1 = 87

23

24

~~25~~

23

39

" 2 = 88

1

16

2

44

" 3 = 89

17

40

18

24

Mar. 13, 1883

No. 1 = 90	5 ^h 44 ^m to	7 41
" 2 = 91	7 45	8 8
" 3 = 92	17 2	18 52

Mar. 14, 1883

No. 1 = 93

23

32

to

23

48

" 2 = 94

1

05

1

47

" 3 = 95

6

10

8

8

Mar. 15, 1883

No. 1 = 96

" 2 = 97

" 3 = 98

" 4 = 99

" 5 = 100

23 29 to 23 50

1 11 3 18

3 32 5 19

17 2 18 52

18 55 19 4

Mar. 16, 1883

No. 1 = 101

" 2 = 102

" 3 = 103

23

37

to

23 52

3

14

5 14

1

15

3 13

Mar. 17, 1883

No. 1 = 104	23	39	~~to~~	0	1
" 2 = 105	1	17		2	0
" 3 = 106	5	42		7	53

Mar. 21, 1883

No. 1 = 107	23	57	to	2	5
" 2 = 108	16	37		18	37
" 3 = 109	18	39		19	47

I notice along about this date that the recording key has sometimes given double taps.

I found subsequently what the trouble was with it, & that the first of the double taps is the one to use. The trouble went on for several days after this date.

Brown.

Mar. 22, 1883

No. 1 =	110	23	59	~~to~~	2	7
" 2 =	111	2	8		4	15
" 3 =	112	4	16		5	47
" 4 =	113	6	52		8	37

Mar. 23, 1883

No. 1 = 114	1	4	~~6~~	1	31
" 2 = 115	5	6		7	0
" 3 = 116	7	2		8	8
" 4 = 117	17	28		19	43

Mar. 24, 1883

W. 1 = 118	0	11	to	2	7
" 2 = 119	5	2		7	9
" 3 = 120	7	11		8	11

Mar. 25, 1883

No. 1 = 121	0	12	~~to~~	1	18
" 2 = 122	4	56		5	47
" 3 = 123	18	44		19	54

Mar. 26, 1883

M. 1 = 124

0 17

~~6~~

2 1

" 2 = 125

6 39

8 0

Mar. 27. 1883

No. 1 = 126 19 38 ~~to~~ 20 8

Mar. 28, 1883

No. 1 = 127	0	22	~~to~~	2	5
" 2 = 128	4	26		5	49
" 3 = 129	7	8		9	4
" 4 = 130	17	36		19	34
" 5 = 131	19	25		20	13

Mar. 29. 1883

Mo. 1 = 132	0 26	to 1 31
" 2 = 133	3 30	5 32
" 3 = 134	5 39	4 72
" 4 = 135	7 43	9 1
" 5 = 136	17 35	19 40

Mar. 30, 1883

No. 1 = 137 18 26 to 20 17

Mar. 31, 1883

No. 1-138 0 35 to 2 6

Apr. 1. 1883

No. 1 = 139	0 32	~~to~~	1	25
" 2 = 140	3 10		5	22
" 3 = 141	5 23		5	58
" 4 = 142	18 14		20	23

Apr. 2. 1883

No. 1 = 143	0	41	~~to~~	1	57
" 2 = 144	4	30		6	46
" 3 = 145	7	31		9	29
" 4 = 146	18	21	.	20	23

Apr. 3, 1883

No. 1 = 147	0 42	to	1 36
" 2 = 148	7 31		9 29
" 3 = 149	18 20		20 22
" 4 = 150	21 59		22 33

Apr. 4, 1883

No. 1 = 151

0 47 to 2 4

" 2 = 152

7 45 9 30

Apr. 6 1883

No. 1 = 153	0	48	to	2	3
" 2 = 154	6	2		7	53
" 3 = 155	7	56		9	32

Apr. 8. 1883

No. 1 = 156	4	30	~~16~~	5-	53
" 2 = 157	8	28		9	30
" 3 = 158	18	20		20	24
" 4 = 159	20	26		22	20

Apr. 9, 1883

120. 1 = 160	0	48	to	2	3
" 2 = 161	5	5		5	51
" 3 = 162	7	45		9	27
" 4 = 163	18	25		19	4

Apr. 10, 1883

No. 1 = 164	0	52	to	1	41
" 2 = 165	4	59		7	15

Apr. 12, 1883

No. 1-166 0 44 to 1 31

Apr. 13. 1883

No. 1 = 167	6 17	~~to~~ 7 45
" 2 = 168	8 48	10 6
" 3 = 169	18 57	20 47

Apr. 14, 1883

No. 1 = 170	0	45	to	1	47
" 2 = 171	5	5		6	34
" 3 = 172	6	36		8	41
" 4 = 173	8	43		10	26

Apr. 15, 1883

No. 1 = 174	22	55	~~to~~	1	38
" 2 = 175	5	17		7	36
" 3 = 176	7	37		7	52

Apr. 16. 1883

No. 1 = 177

" 2 = 178

0

47

to

1

48

8

25

10

31

Apr. 17, 1883

No. 1 = 179	0 47	~~8~~	1 52
" 2 = 180	7 17		9 30
" 3 = 181	9 31		10 15
" 4 = 182	18 57		20 50
" 5 = 183	20 52		21 32

Apr. 18, 1883

No. 1 = 184	0 48	~~to~~	1 50
" 2 = 185	4 19		6 18
" 3 = 186	6 20		7 20
" 4 = 187	9 33		10 33
" 5 = 188	18 58		21 4
" 6 = 189	21 6		22 16-

Apr. 19. 1883

No. 1 = 190

1 0 to 1 55

"

Apr. 20. 1883

No. 1 = 191

8

48

to

10

48

" 2 = 192

19

40

21

41

Apr. 21, 1883

No. 1 = 193	0	46	to	2	9
" 2 = 194	8	49		9	51
" 3 = 195	19	37		21	20

Apr. 22. 1883

No. 1 = 196 1 47 to 2 19

Apr. 24, 1883

No. 1 = 197 20 55 ~~to~~ 22 3

Apr. 25, 1883

No. 1 = 198	1	0	to	2	19
" 2 = 199	9	8		10	34
" 3 = 200	19	44		21	42

Apr. 26, 1883

No. 1 = 201	1	2	to	2	21
" 2 = 202	9	6		10	20

Apr. 27. 1883

No. 1 = 203	0	47	to	2	53
" 2 = 204	20	45		22	4

Apr. 28, 1883

No. 1 = 205 2 20 ~~to~~ ² 36
~~2~~ ~~36~~

Apr. 29, 1883

No. 1 = 206	10 0 $\frac{1}{2}$	11 5
No. 2 = 207	19 38	21 45

Apr. 30, 1883

No. 1 = 208	0	55	~~to~~	2	34
" 2 = 209	8	56		11	10
" 3 = 210	9	42		21	43

May 1 1883
~~Apr. 30. 1883~~

No. 1 = 209 8 56 ~~7~~ 11 10

No. 1 = 211 0 57 ~~7~~ 2 41

" 2 = 212 20 7 21 29

May 2, 1883

No. 1 = 213	2 35	to 2 59
" 2 = 214	8 45	9 32
" 3 = 215	10 49	11 41

May 3, 1883

No. 1 = 2146 2 30 to 3 18
" 2 = 217 8 56 9 42

May 6. 1883

No. 1 = 218	20	57	to	21	54
" 2 = 219	21	56		23	53
" 3 = 220	0	3		1	33

May 8 7. 1883

No. 1 = 221	2	54	to	3	9
" 2 = 222	9	38		11	32
" 3 = 223	21	1		22	41
" 4 = 224	0	59		1	37

May 8, 1883

No. 1 = 225	2	56	~~8~~	3	8
" 2 = 226	11	48		12	52

May 9, 1883

No. 1 = 227 21 50 to 22 37

May 10, 1883

No. 1 = 228	0 59 to 1 18 nd 34 th to 3 19
" 2 = 229	9 59 to 11 52
" 3 = 230	1 15 1 34

May 11, 1883

No. 1 = 231

1 3 to 2 4

~~4 2 = 232~~

May 12, 1883

No. 1 = 232	3 15	to 3 25
" 2 = 233	10 6	10 46
" 3 = 234	1 16	1 45

May ¹³ ~~#2~~, 1883

No. 1 = 235 20 54 to: 23 3
" 2 = 236 0 57 1 43

May 14. 1883

No. 1 = 237 3 18 to 3 32

May 15, 1883

No. 1 = 238 0 58 to 1 31

May 16, 1883

No. 1 = 239	2 30	to 3 50
" 2 = 240	10 12	12 12
" 3 = 241	12 13	13 12
" 4 = 242	21 57	0 10
" 5 = 243.	0 11	1 30

May 17. 1883

No. 1 = 244

3 28 to 3 41

" 2 = 245

10 22 12 14

" 3 = 246

12 15 13 36

" 4 = 247

22 49 0 59

" 5 = 248

1 0 1 30

May 18, 1883

No. 1 = 249	3	33	~~to~~	3	48
" 2 = 250	10	26		12	31
" 3 = 251	12	32		13	35
" 4 = 252	22	48		0	54
" 5 = 253 .	0	56		1	58

May 19, 1883

No. 1 = 254 2 39 ~~4~~ 3 56

May 21, 1883

No. 1 = 255

11 15 ~~to~~ 11 35

May 24. 1883

No. 1 = 256	22	42	~~6~~	0.	54
" 2 = 257	0	56		1	27

May 25, 1883

No. 1 = 258

" 2 = 259

" 3 = 260

10 45 ~~to~~ 12 40

12 42 13 39

1 2 2 2

May 26. 1883

No. 1 = 261	11 7	* 12 34
" 2 = 262	12 56	13 32

Began observation of ^{scattering} zone stars
 which require further observation.
 Gave up on acct of clouds.

May 27. 1883

No. 1 = 263	22	40	~~to~~	0	8
" 2 = 264	0	19		1	38

May 28, 1883

No. 1 = 265

4 15 to 4 27

May 29, 1883

Yesterday Mr. Aston took
down the West Chronograph to
clean & repair it. One of the
pivots was found very badly worn.
~~It~~ Today it was reindented,
& the pendulum a little reg-
ulated.

1883