

Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
Batavia				
Catania	56	0.74	0.94	44
Greenwich	56	0.75	0.60	45
Kiew	43	0.94	0.78	39
Lyons	42	0.83	0.84	39
Roma/Campidoglio	38	0.82	0.73	32
South Hadley	65	0.91	0.72	50
Stonyhurst	50	0.89	0.81	39
Tokyo	65	0.54	0.51	54
Wellington				
Zürich/Arosa	72	0.60	0.60	—

Relative-numbers for the whole sun disc
1935

	Jan.	Feb.	March
1	34	10	19
2	27 ^d	10	16
3	27	9	19 ^a
4	22	M 9 ^c	12
5	17	10 ^a	18
6	21	29	15
7	19 ^a	48	8
8	12	30	8
9	11	24	17 ^d
10	9	28	E 27 ^c
11	19 ^d	22	W 34 ^c
12	24	W 26 ^{cd}	44
13	24	18	56
14	28	27	72 ^{da}
15	16	M 22 ^c	68 ^{aa}
16	16	20	M 50 ^c
17	14 ^a	10	43
18	13	7	33
19	10	M 19 ^c	E 40 ^c
20	9	28	34
21	7	21	24
22	14	29	17
23	16 ^{ad}	M 17 ^c	12
24	31	17 ^a	8
25	32	25 ^d	7
26	31	18	8
27	26	20	7
28	26 ^a	20	0
29	11		0
30	9		0
31	11		0
Mean	18.9	20.5	23.1

Relative-numbers for the central circle zone
1935

	Jan.	Feb.	March
1	11	0	12
2	0	0	10
3	0	0	19
4	0	0	11
5	0	10	17
6	0	20	0
7	0	0	0
8	12	0	0
9	11	0	0
10	0	0	7
11	0	0	0
12	0	7	0
13	0	0	36
14	0	7	41
15	0	0	44
16	16	0	29
17	14	0	0
18	13	0	0
19	10	11	8
20	7	11	0
21	0	8	0
22	0	0	0
23	8	17	7
24	11	17	8
25	0	12	0
26	0	0	0
27	0	0	7
28	0	8	0
29	0		0
30	0		0
31	0		0
Mean	3.6	4.6	8.3

Intensity of the ultra-violet Radiation.

(Mount Wilson)

The figures give the ratio ultra-violet
($\lambda = 0.32 \mu$) to green ($\lambda = 0.50 \mu$)
(Ratio for June 1924 = 1)

1935

	Jan.	Feb.	March
1	0.93	0.96	
2			
3	1.14		
4			
5			
6	1.19		
7	1.16		
8			
9		1.01	
10			
11			1.16
12			1.06
13			
14			1.16
15		1.09	
16	1.17	1.10	
17	1.32	1.07	1.04
18		0.96	
19			
20	1.23		1.28
21	1.00	0.96	
22		1.08	1.29
23		1.25	1.31
24	0.96		1.35
25	1.00	1.20	1.08
26			1.03
27		1.12	0.96
28	0.96		1.13
29	1.03		1.09
30			1.12
31	0.96		1.13
Mean	1.08	1.07	1.15

a = Passage of an average sized group through the central meridian.
b = Passage of a large group or spot through the central meridian.
c = New formation of a centre of activity. E: on the eastern part of the sun's disc, W: on the western part, M: in the central circle zone.
d = Entrance of a large or average sized centre of activity on the east limb.
Zurich, August 5, 1935.

W. Brunner

ÉRUPTIONS CHROMOSPHÉRIQUES BRILLANTES

observées au spectrohélioscope.

Observatoire	Date	Heures d'observation	Coordonnées approximatives		Intensité	Remarques
	1935	T. C. G.		φ	Dist. mér. cent.	
Zurich	janv. 19	11 h 5 m à 11 h 30 m		22° S.	16° W.	1 Points brillants, disparus à 13 h.
Zurich	" 21	10 18 à 12 31		25 S.	70 E.	1 Petite éruption.
Zurich	févr. 19	11 0 à 11 30		26 S.	2 E.	1 Formation d'une très petite plage faculaire brillante, entre 9 h et 11 h, dans un groupe de petites taches nouvellement formé.
Greenwich	mars 1	11 h 52 m		21 S.	25 E.	1 Durée, environ 25 min.
Zurich	" 13	13 h 30 m à 14 h 0 m		17 S.	24 E.	1 Deux points brillants.

Meudon, 24 juin 1935.

L. d'Azambuja

Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
		Batavia	48	
Catania	78	0.87	0.78	76
Greenwich	79	0.82	0.95	77
Kiew	48	0.97	0.64	47
Lyons	66	1.02	0.89	64
Roma/Campidoglio	59	0.96	0.86	59
South Hadley	57	0.93	0.80	57
Stonyhurst	83	0.86	0.75	82
Tokyo	50	0.51	0.42	49
Wellington				
Zürich/Arosa	89	0.60	0.60	—

Relative-numbers for the whole sun disc

1935

	April	May	June
1	0	17	34
2	0	26	39 ^b
3	0	M 46 ^c	34
4	7	56 ^b	34
5	0	56 ^{da}	31 ^d
6	0	56	41
7	0	E 56 ^c	25
8	M 11 ^c	62	E 46 ^c
9	21 ^a	54	E 59 ^c
10	22	41	73 ^b
11	16	46 ^{aa}	E 74 ^c
12	E 22 ^c	41	66
13	34	41	55
14	30	49	41
15	37 ^b	32	49 ^d
16	22	27	42
17	18	8	38
18	20	0	43 ^d
19	11	0	38
20	16	0	67
21	15	0	50
22	16	0	35 ^a
23	9	0	29 ^d
24	7	17	38 ^a
25	7	7	44
26	0	8 ^d	51
27	0	8	56
28	0	8	52
29	8 ^d	17 ^d	45
30	16 ^d	30	42 ^b
31		38	
Mean	12.2	27.3	45.7

Relative-numbers for the central circle zone

1935

	April	May	June
1	0	0	9
2	0	0	17
3	0	22	0
4	0	38	7
5	0	39	0
6	0	17	0
7	0	7	0
8	0	7	0
9	17	18	0
10	0	30	10
11	0	30	17
12	0	26	18
13	0	11	7
14	0	11	0
15	18	7	8
16	14	9	10
17	0	0	0
18	0	0	9
19	0	0	20
20	0	0	34
21	0	0	25
22	0	0	21
23	0	0	19
24	0	9	11
25	0	7	8
26	0	0	7
27	0	0	0
28	0	0	0
29	0	0	26
30	0	0	25
31		0	
Mean	1.6	9.3	10.3

Intensity of the ultra-violet Radiation.

(Mount Wilson)

The figures give the ratio ultra-violet
($\lambda = 0.32 \mu$) to green ($\lambda = 0.50 \mu$)
(Ratio for June 1924 = 1)

1935

	April	May	June
1			0.93
2	1.12		0.96
3			0.99
4		1.10	0.93
5	1.19	1.13	
6	1.20	1.04	
7			0.90
8			0.96
9	1.35		
10	1.22	1.05	0.99
11	1.14		0.90
12	1.04		0.93
13			0.97
14		1.09	0.99
15			0.96
16	1.04		1.04
17	1.02	1.12	0.85
18	1.06	1.12	0.88
19		1.00	0.91
20	1.09	1.00	0.88
21	1.03	0.93	0.90
22	0.98	0.91	0.91
23		0.96	0.94
24		1.04	0.94
25	1.12		0.88
26		0.96	0.88
27	1.03	0.96	0.96
28		0.88	0.93
29		1.02	0.97
30		1.11	0.97
31		1.01	
Mean	1.11	1.02	0.94

a = Passage of an average sized group through the central meridian.
b = Passage of a large group or spot through the central meridian.
c = New formation of a centre of activity. E: on the eastern part of the sun's disc, W: on the western part, M: in the central circle zone.
d = Entrance of a large or average sized centre of activity on the east limb.

Zurich, September 23, 1935.

W. Brunner

Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
Batavia				
Catania	85	0.80	0.78	80
Greenwich	86	0.76	0.90	82
Kiew	66	0.85	0.74	61
Lyons	84	0.91	0.97	81
Roma/Campidoglio	75	0.89	0.87	71
South Hadley	34	0.81	0.73	33
Stonyhurst	75	0.85	0.88	70
Tokyo	39	0.48	0.52	39
Wellington	16	0.76	0.71	15
Zürich/Arosa	87	0.60	0.60	—

Relative-numbers for the whole sun disc
1935

	July	Aug.	Sept.
1	41	10	30
2	29	11	36
3	29	22	37
4	24	24 ^{ad}	46 ^a
5	28 ^d	18	47
6	29	28	46
7	22	43	47
8	50 ^d	49	W 47 ^c
9	43	26	53 ^d
10	38	33 ^a	32
11	43 ^a	29	23
12	E 58 ^c	38	E 22 ^c
13	62	37	33
14	51 ^a	34 ^d	E 29 ^c
15	48	29	26
16	49	26	33
17	47 ^a	W 20 ^c	34 ^d
18	46	29	33 ^a
19	E 51 ^c	23	31
20	60	M 52 ^{ca}	20
21	36 ^b	55	18
22	32	40	M 21 ^c
23	30	34	45 ^a
24	29	35 ^d	M 56 ^c
25	23	32	E 59 ^c
26	19	29	69 ^d
27	11	13 ^a	80 ^d
28	8	26	71
29	0	28 ^d	78
30	E 8 ^c	24	61
31	8	37 ^a	
Mean	33.9	30.1	42.1

Relative-numbers for the central circle zone
1935

	July	Aug.	Sept.
1	14	0	10
2	0	0	10
3	0	17	11
4	0	9	30
5	0	10	29
6	0	0	24
7	0	0	21
8	14	0	8
9	8	11	0
10	14	18	0
11	22	20	0
12	27	10	0
13	21	9	17
14	10	0	0
15	10	0	0
16	9	0	20
17	10	0	11
18	0	7	10
19	0	9	8
20	25	39	0
21	20	29	0
22	22	15	21
23	13	0	38
24	0	0	23
25	0	0	13
26	0	0	0
27	0	0	0
28	0	0	0
29	0	9	8
30	0	15	19
31	0	14	
Mean	7.7	7.8	11.0

- a = Passage of an average sized group through the central meridian.
 b = Passage of a large group or spot through the central meridian.
 c = New formation of a centre of activity. E: on the eastern part of the sun's disc, W: on the western part, M: in the central circle zone.
 d = Entrance of a large or average sized centre of activity on the east limb.

Zurich, December 15, 1935.

Intensity of the ultra-violet Radiation.

(Mount Wilson)

The figures give the ratio ultra-violet
 ($\lambda = 0.32 \mu$) to green ($\lambda = 0.50 \mu$)
 (Ratio for June 1924 = 1)

1935

	July	Aug.	Sept.
1	0.96	0.99	0.93
2		0.96	0.96
3	0.99	1.03	0.93
4	1.02	1.06	0.96
5	1.01	0.94	0.96
6	0.98	0.94	1.08
7	0.97	0.96	1.06
8	0.96	0.91	0.97
9	1.00	0.99	0.98
10	0.96		0.98
11	0.93	1.02	1.05
12	0.96		0.98
13	0.87		0.97
14	0.91	1.02	1.08
15			1.07
16	0.97	0.98	1.00
17		1.00	0.99
18		0.96	1.02
19	0.96	0.93	
20	1.09	0.93	
21	0.85	0.90	1.04
22	0.90	0.93	1.01
23	0.90	0.99	0.93
24	0.97	0.97	1.03
25	0.97		0.96
26	0.96		0.93
27	1.03		0.97
28	0.90		1.02
29	0.96		
30			1.09
31		0.96	
Mean	0.96	0.97	1.00

W. Brunner

Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
Batavia	54	1.45	1.51	46
Catania	69	0.75	0.75	55
Greenwich	51	0.71	0.76	41
Kiew	43	0.73	0.63	33
Lyons	33	0.79	0.86	30
Roma/Campidoglio	61	0.82	0.88	52
South Hadley	49	0.80	0.77	40
Stonyhurst	54	0.76	0.71	44
Tokyo	56	0.40	0.42	45
Wellington				
Zürich/Arosa	75	0.60	0.60	—

Relative-numbers for the whole sun disc

1935

	Oct.	Nov.	Dec.
1	71 d	E 22 c	50 bd
2	M 73 ac	17	57 b
3	68 a	E 42 cd	64
4	52	46 aa	65
5	61	46	53
6	57 a	41	67 d
7	53	59 d	M 77 ca
8	40	59	M 79 ac
9	12	67 b	85
10	7	61	65
11	25 d	E 68 cd	77
12	M 37 c	68	E 85 bed
13	M 65 dc	97 abd	63 b
14	58 a	E 98 c	59
15	69 d	111	M 67 c
16	68	104	E 59 ac
17	M 95 cc	E 102 ac	58
18	84	94 a	48 a
19	79 a	91	27
20	64 a	70	27 d
21	76	71	44 a
22	67	52 b	41
23	63	62	47 d
24	63	45	53 d
25	65	44	79
26	59 b	M 56 cd	62 a
27	40	58 a	79
28	28	58	63
29	24	64	61 a
30	13	53	E 70 ac
31	13		75
Mean	53.2	64.2	61.5

Relative-numbers for the central circle zone

1935

	Oct.	Nov.	Dec.
1	35	0	27
2	35	0	39
3	43	22	40
4	21	26	0
5	23	13	0
6	14	0	0
7	10	0	25
8	0	0	37
9	9	0	22
10	0	0	14
11	0	26	21
12	12	42	35
13	31	63	30
14	24	41	17
15	27	27	8
16	30	39	19
17	22	39	27
18	35	44	20
19	36	29	11
20	27	25	23
21	43	44	17
22	29	23	8
23	16	30	0
24	26	11	0
25	28	8	10
26	28	0	9
27	27	0	21
28	16	0	30
29	10	0	32
30	0	19	41
31	0		32
Mean	21.2	19.0	19.8

Intensity of the ultra-violet Radiation.

(Mount Wilson)

The figures give the ratio ultra-violet
($\lambda = 0.32 \mu$) to green ($\lambda = 0.50 \mu$)
(Ratio for June 1924 = 1)

1935

	Oct.	Nov.	Dec.
1		1.01	0.85
2	1.08		
3	1.08		
4	1.01	0.98	
5		0.96	
6		0.90	0.87
7	1.11	0.96	1.00
8	0.97	0.91	0.97
9		1.26	0.93
10	0.91	1.03	
11	1.00	0.96	
12	1.04	1.02	
13	0.99	0.98	1.00
14		0.93	0.93
15	1.02	0.93	0.88
16	1.06	0.97	0.91
17	1.10		0.88
18	1.10		0.97
19	0.99	0.96	
20	1.08		
21	1.16		1.00
22	1.06		0.93
23			0.96
24	1.00		0.94
25	1.11	0.97	
26	1.07	0.96	1.09
27	1.02	0.93	
28	0.97	0.84	
29			
30	1.06	0.90	
31	1.00		1.08
Mean	1.04	0.97	0.95

- a = Passage of an average sized group through the central meridian.
 b = Passage of a large group or spot through the central meridian.
 c = New formation of a centre of activity. E: on the eastern part of the sun's disc, W: on the western part, M: in the central circle zone.
 d = Entrance of a large or average sized centre of activity on the east limb.

Zurich, March 30, 1936.

W. Brunner