Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
Batavia	48	1.56	1.44	44
Catania	66	0.67	0.77	59
Greenwich/Cape	68	0.70	0.84	61
Kiew	34	1.22	1.35	34
Lyons	52	0.94	0.99	47
Roma/Campidoglio	36	0.86	0.93	31
South Hadley	66	1.05	1.06	59
Stonyhurst	55	1.05	1.31	50
Tokyo	72	0.79	0.86	63
Wellington	17	0.61	0.42	14
Zürich/Arosa	82	0.60	0.60	—

Relative-numbers for the whole sun disc
1934

	Jan.	Feb.	March
1	0	11	0
2	0	9 a	0
3	0	9	0
4	0	0	6
5	0	E 10 c	0
6	0	11	E 7 c
7	0	E 19 c	9
8	0	8	19
9	0	14	22 a
10	0	8	12
11	0	9	15
12	M 8 c	9	7
13	11	16	0
14	12	17	0
15	13	10	0
16	16	11	0
17	11	11	0
18	4	11	7
19	0	8	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	10	0
25	0	7	7
26	0	0	7
27	0	0	0
28	0	0	0
29	E 8 c		7
30	11		7
31	12		0
Mean	3.4	7.8	4.3

Relative-numbers for the central circle zone
1934

	Jan.	Feb.	March
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	8	9
8	0	0	12
9	0	0	15
10	0	0	12
11	0	0	15
12	8	0	7
13	11	16	0
14	10	9	0
15	0	10	0
16	0	11	0
17	0	9	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	10	0
25	0	0	7
26	0	0	7
27	0	0	0
28	0	0	0
29	0		7
30	0		7
31	0		0
Mean	0.9	2.6	3.2

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.

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)

1934

	Jan.	Feb.	March
1		1.03	1.07
2	1.34		1.02
3	1.38		1.01
4	1.23		
5	1.00		0.93
6	1.03	0.97	
7	1.28	1.08	
8	1.11	1.08	
9	1.04		0.93
10	1.11	1.16	
11	1.07	1.12	
12	1.08	1.13	
13	1.11		0.98
14	1.06	0.94	0.94
15	1.02		
16	1.04	1.09	
17	1.14	1.12	
18	1.22	1.06	1.17
19	1.14		1.17
20			1.04
21	1.11		
22	1.17		
23	1.11		
24	1.14		
25			
26	1.00		
27	1.01		
28	1.07	1.20	
29	1.00		
30	0.99		
31	1.03		0.99
Mean	1.11	1.08	1.02

Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
Batavia	—	—	—	—
Catania	76	0.76	0.72	74
Greenwich/Cape	76	0.97	1.09	75
Kiew	55	0.94	0.79	53
Lyons	77	0.89	0.82	75
Roma/Campidoglio	48	0.91	0.88	47
South Hadley	76	0.87	0.67	73
Stonyhurst	71	0.96	0.88	68
Tokyo	52	0.66	0.71	49
Wellington	36	0.84	0.64	36
Zürich/Arosa	88	0.60	0.60	—

Relative-numbers for the whole sun disc

1934

	April	May	June
1	0	7	0
2	11	0	0
3	12	0	0
4	9	M 14 c	0
5	8	17	0
6	0	21 a	0
7	0	26	0
8	0	34	0
9	0	23	7
10	0	19	0
11	0	10	0
12	0	7	0
13	0	15 d	0
14	7 d	21	0 d
15	21	26	11
16	33	25	27
17	32	35 d	31
18	29	41	26
19	22	46	25
20	21	37 a	14 b
21	22	29	16
22	18 b	34	10
23	16	33 a	10
24	19	23	8
25	11	19	8
26	10	17	8
27	16	9	0
28	14	16	0
29	7	8	0
30	0	0	0
31		0	
Mean	11.3	19.7	6.7

Relative-numbers for the central circle zone

1934

	April	May	June
1	0	0	0
2	0	0	0
3	0	0	0
4	0	10	0
5	0	17	0
6	0	21	0
7	0	19	0
8	0	0	0
9	0	8	0
10	0	7	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	12	10
19	0	30	17
20	11	18	14
21	22	0	16
22	18	10	10
23	11	18	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
30	0	0	0
31		0	
Mean	2.1	5.5	2.2

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 24, 1934.

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)

1934

	April	May	June
1	0.97		1.11
2		1.07	1.00
3	1.22	1.03	1.07
4	1.08	1.06	
5	1.10	1.03	
6	1.12	1.19	
7	1.02	1.00	1.09
8	0.98	0.98	1.04
9	0.99		1.03
10	0.98		1.02
11	1.00	0.96	1.04
12	0.88	1.03	1.14
13	0.93	1.00	1.10
14		1.01	1.11
15		1.08	0.99
16	1.05		1.03
17	1.02		1.04
18	1.01		1.11
19	0.99		1.05
20	1.02		1.11
21	1.00		1.11
22	1.12		1.10
23	1.07	1.17	0.99
24	1.11		1.16
25	1.06		1.22
26	0.99		1.13
27	0.98		1.00
28	1.04	1.20	1.01
29	1.03	1.20	0.94
30		1.14	
31		1.20	
Mean	1.03	1.08	1.07

W. Brunner

Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
Batavia	73	—	—	71
Catania	87	0.78	0.70	83
Greenwich/Cape	85	0.75	0.74	81
Kiew	78	1.32	0.81	74
Lyons	81	1.10	0.93	78
Roma/Campidoglio	56	1.11	0.86	56
South Hadley	24	0.91	0.85	24
Stonyhurst	75	0.96	0.77	71
Tokyo	35	0.71	0.46	33
Wellington	—	—	—	—
Zürich/Arosa	88	0.60	0.60	—

Relative-numbers for the whole sun disc

1934

	July	Aug.	Sept.
1	0	0	0
2	0	0	0
3	0	0	7
4	0	0	0
5	0	0	0
6	8 d	8 d	0
7	8	9	0
8	11	9	0
9	11	10	0
10	18	11	7
11	24 d	12	0
12	24 b	M 21 ac	7
13	25	22	7
14	24	24	8
15	20	24	W 16 c
16	23	27	9
17	17	17	8
18	18	22	0
19	17	13	0
20	9	0	0
21	8	0	0
22	0	0	0
23	0	7	7
24	8	8	0
25	8	0	0
26	0	0	0
27	0	7	0
28	6	0	9
29	0	0	14
30	0	7	21
31	0	0	
Mean	9.3	8.3	4.0

Relative-numbers for the central circle zone

1934

	July	Aug.	Sept.
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	7
11	10	0	0
12	10	0	0
13	6	10	0
14	10	11	0
15	8	12	0
16	8	11	0
17	8	0	0
18	8	0	0
19	9	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	7	0
28	0	0	9
29	0	0	8
30	0	0	7
31	0	0	
Mean	2.5	1.6	1.0

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 21, 1934.

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)

1934

	July	Aug.	Sept.
1		1.10	
2	0.99		0.93
3	0.99	1.01	0.88
4	1.04		1.01
5	1.00	1.09	0.91
6	1.05	1.14	0.96
7	0.99	0.97	1.09
8	1.00	0.93	1.00
9	1.00	0.91	0.98
10	0.99	0.94	0.97
11	0.96	0.88	0.98
12	0.93	0.91	1.04
13	0.96	0.96	0.96
14	0.96		0.96
15	0.99	0.96	1.00
16	0.94	0.90	0.98
17	1.03		
18			1.09
19	1.05		0.88
20	1.17	0.88	1.04
21	1.14	1.03	1.03
22		1.07	
23		0 96	
24	1.03	0.93	
25	0.96	1.03	
26		0.99	
27		0.94	1.00
28	0.99	0.91	0.99
29	0.94	0.96	0.93
30	0.93		0.98
31	0.96		
Mean	1.00	0.97	0.98

W. Brunner

ÉRUPTIONS CHROMOSPHÉRIQUES

observées au spectrohélioscope.

Aucun phénomène chromosphérique pouvant être considéré comme une éruption n'a été signalé pendant le troisième trimestre 1934.

Meudon, 21 décembre 1934.

L. d' Azambuja

Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
Batavia				
Catania	56	0.62	0.86	51
Greenwich	54	0.68	0.69	49
Kiew	37	0.71	1.03	35
Lyons	40	0.82	0.81	38
Roma/Campidoglio	30	0.71	0.96	28
South Hadley	60	0.90	1.07	56
Stonyhurst	44	0.82	1.04	38
Tokyo	52	0.64	0.84	49
Wellington	25	0.83	0.84	21
Zürich/Arosa	84	0.60	0.60	—

Relative-numbers for the whole sun disc

1934

	Oct.	Nov.	Dec.
1	15	13	27
2	0	14	20
3	0	16	12
4	8	14	14
5	0	12	W 14 c
6	0	14	10
7	0	10	13
8	0	8	11
9	0	10	0
10	0	7	0
11	7	7	0
12	8	7	0
13	8	0	0
14	8	0	0
15	9	0	0
16	9	0	0
17	8	0	0
18	8	7	0
19	14	0	0
20	0	0	E 14 c
21	0	0	24
22	7	0	21
23	8	0	27
24	0	0	25 a
25	7	7	E 47 cc
26	7	M 11 c	37
27	7	14	29
28	7	23	35 a
29	9	W 35 c	31
30	16	31	36 a
31	8		31
Mean	5.7	8.7	15.4

Relative-numbers for the central circle zone

1934

	Oct.	Nov.	Dec.
1	0	0	0
2	0	0	0
3	0	0	0
4	8	0	0
5	0	9	0
6	0	3	0
7	0	10	0
8	0	8	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	7	0	0
18	8	7	0
19	7	0	0
20	0	0	0
21	0	0	0
22	0	0	10
23	8	0	18
24	0	0	17
25	0	0	10
26	0	0	8
27	0	7	8
28	0	13	15
29	10	11	21
30	16	0	15
31	8		14
Mean	2.3	2.3	4.4

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 4, 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)

1934

	Oct.	Nov.	Dec.
1	1.00		1.17
2	0.99		1.06
3		0.97	1.01
4	1.07		
5	0.96	1.00	
6		1.03	1.16
7	1.11		
8	0.96	0.99	
9	0.93		
10	1.03	0.96	
11	1.01	0.91	
12	1.02	0.98	
13	1.03	0.96	
14	1.09		
15		1.02	
16			1.17
17			1.23
18			
19			1.26
20	1.07	1.19	1.13
21	1.08		1.10
22	1.07		
23	1.14	1.11	1.01
24	1.05	1.20	1.01
25		1.08	1.01
26	0.96		1.07
27	1.09		
28	1.02	1.17	
29			
30	1.01	1.14	0.97
31			1.01
Mean	1.03	1.05	1.09

W. Brunner

ÉRUPTIONS CHROMOSPHÉRIQUES BRILLANTES

observées au spectrohélioscope.

Observatoire	Date	Heures d'observation	Coordonnées approximatives		Intensité	Remarques
	1934	T. C. G.	φ	Dist. mér. cent.		
Cambridge (England)	déc. 7	13 h 6 m	24° S.	70° W.	1	Very brilliant small patches. Also shown on spectroheliogram in K 2.3.2. on recently formed group.
Cambridge (England)	déc. 31	13 h 48 m	24° S.	10° W.	1	Brilliant patches. Possibly return of group of Dec. 7.

Meudon, 4 mars 1935.

L. d' Azambuja