Sunspot Activity.

	Number of observations	Reduction-factor on Wolfs unit		Number of comparisons
		whole disc	central zone	
Catania	56	1.08	0.93	47
Greenwich	45	0.72	0.78	36
Kiew	30	0.91	0.83	27
Lyons	40	0.96	0.95	37
Madrid	71	0.53	0.54	60
Roma/Campidoglio	44	0.84	0.75	39
South Hadley	50	0.86	0.87	43
Stonyhurst	49	0.82	0.78	39
Tokyo	46	0.66	0.69	41
Zürich/Arosa	78	0.60	0.60	—

	Relative-numbers for the whole sun disc.			Relative-numbers for the central circle zone			Relative-numbers for the four quadrants divided from the North-Pole of the Sun											
							NW	NE	SW	SE	NW	NE	SW	SE	NW	NE	SW	SE
1937	Jan.	Febr.	March	Jan.	Febr.	March	January				February				March			
1	144	211 a	154 a	39	112	65	37_1*	60	14	33	67	29	81	34	52	18	61	23_3
2	156 a	224	154 b	82	82	55	28	61	18_1*	49_1*	55	41_1*	97_1*	31_1*	70_1*$_1$	6	58	20
3	109 a	E 181 ac	E 109 c	62	37	34	48	10	32	19	40_1	40_1	82	19	60	15_1*$_1$	34	0
4	M 107 c	152	E 65 cd	69	28	0	34	29_2	30	14	36	32	60	24	26	10	20	9_1
5	83 a	W 146 ac	76	43	35	0	†40	†11	†38	0	38	16	70_1	22	21	36	9	10
6	ME82 cc	128	71	40	27	0	33	8	22	19_2	†30	†12	†64	†22	14	46_1	0	11
7	94	98	W 105 c	37	18	32	38	7_1*	31	18_1*	15	17	35	31	11	75_1*$_1$	9_1	10
8	103	E 90 c	E 115 abcd	33	34	36	†32	†7	†40	†24_1	25_1*	22_1	16	27	17	77_2	10	11
9	97	E 75 c	107	22	31	44	23	0	56	18	23	23_1	10	19	27	63	17	0
10	M 85 cd	85	99	28	51	8	14	10_1	46	15	†9	†43_1*$_1$	†22	†2*	31	48	20	0
11	97 d	70 a	98	21	53	25	19	0	49_1*	29	†29	†18	†12	†12	35	46_1*	17	0
12	W 91 c	M 77 acd	59	18	31	20	19_1	7	29_1*	36	27	23_1	19_1*	8	22	29	8	0
13	80	87	42 a	10	34	16	20	10	10	40					24_1*	9	9	0
14	93	87	21	32	43	16	18	9	17_2*	49	47	15_1*	25_1*	0	21	0	0	0
15	M 87 c	90	20	41	11	0	†21_1	†17	†10	†40	50	20	9	11_1	20	0	0	0
16	104 a	101 d	E 23 c	44	17	8	20	19	9	56_1	39	31	24	7_1*	11	0	0	12_1
17	E 108 acd	92	22	38	28	11	12	25_1	38	33	27	42	23_1*	0	10	0	0	12
18	108	88 ad	E 37 ac	39	13	9	9	20	35	44	25	50	13	0	8	13_2	5	11_1
19	101	111 d	33	34	11	10	†3	†21	†27	†34	20	74	8	9	0	17	9	7
20	E 128 c	114 d	E 42 cd	35	13	0	10_1	20	42_1*	56_1	12	84	0	18	†8	†11	†8	†15_2
21	WEE127ccc	130 a	62 a	26	23	0	33_2	31_2	23	40	23	91	0	16	5	32_1*	7	18
22	163	190 add	M 74 c	56	69	22	44	42	16	61_1*	45	94	9_1	42_1*	16_1	18	16_1	24
23	155	155 a	E 107 cd	95	61	15	44	46	7_1	58	56	60	7	32	23	38_1	20	26
24	178abdd	187 ad	94 d	88	63	27	60	33	34	51_1	51	97_1	0	39	†8	†46	†16	†22_1*
25	M 181 ac	162 aa	87	92	70	34	35	52	63_1	31_1	55	72	9	26	0	54	7	26
26	E 200 bcd	E 167 ac	80 a	78	68	46	50	51_1*$_1$	65	34	70	51	10	36_1	0	51	13	16
27	E 180 c	149	118 a	35	74	91	38	51	38	53_2	55	41 $_1$*	22	31_1*	31	43	11	33_1
28	201	W 150 ac	131	30	72	71	43	50	37	71	75	17	35_1	14	44_1	52	20	15
29	M 200 cd		117 a	95		53	†35	†71_1	†9	†120					73	24	11	9
30	233 ab		E 135 ac	128		42	55	56	14_1	108_1*					71	30_2	10	24_1*$_1$
31	233 ab		143 a	116		47	68	49	63	53_1					60	53_1*	9	21
Mean	132.5	128.5	83.9	51.8	43.2	27.0	31.7	28.5	31.0	42.1	38.7	42.8	28.2	20.0	26.4	31.0	14.0	12.4
							N	S	W	E	N	S	W	E	N	S	W	E
Mean for the half-hemispheres							60.2	73.1	62.7	70.6	81.5	48.2	66.9	62.8	57.4	26.4	40.4	43.4

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 group developing into a middle sized or large 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.

The small numbers indicate the number of NEW FORMATIONS of groups; small numbers marked with an asterisk mean small one day-groups.
† Greenwich, Lyon, Madrid, Stonyhurst or Tokyo numbers.

Intensity of the ultra-violet Radiation (Mount Wilson).

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

1937	Jan.	Febr.	March	1937	Jan.	Febr.	March	1937	Jan.	Febr.	March
1			0.97	12				23	1.23	1.11	
2			1.08	13				24			
3		1.16	1.09	14				25	1.17		
4			0.96	15	1.16			26	1.17		
5				16		1.14		27			1.38
6			0.98	17		1.14		28		0.99	1.39
7				18		1.11		29			1.25
8		1.25	1.07	19		1.28	1.10	30			
9		1.19	1.08	20		1.22		31			
10				21	1.31	1.12	1.17				
11	1.22			22		1.13		Mean	1.21	1.15	1.13

Zurich, June 15, 1937.

W. Brunner.

Sunspot Activity.

	Number of observations	Reduction-factor on Wolfs unit		Number of comparisons
		whole disc	central zone	
Catania	60	1.14	1.02	58
Greenwich	78	0.82	0.87	75
Kiew	37	0.93	0.90	35
Lyons	63	1.03	1.03	61
Madrid	74	0.65	0.69	74
Roma/Campidoglio	58	0.94	0.90	55
South Hadley	45	0.82	0.82	44
Stonyhurst	69	0.91	0.89	66
Tokyo	53	0.66	0.71	48
Tsinan	58	0.72	0.71	55
Zürich/Arosa	87	0.60	0.60	—

1937	Relative-numbers for the whole sun disc.			Relative-numbers for the central circle zone			Relative-numbers for the four quadrants divided from the North-Pole of the Sun											
							NW	NE	SW	SE	NW	NE	SW	SE	NW	NE	SW	SE
	April	May	June	Apr.	May	June	April				May				June			
1	M 138 c	89	M 79 c	58	21	33	62_1	44_1	15_1	17	11	10	58_2	10	45_1	25	9	0
2	128	91	89 d	47	10	19	60	44	24	0	0	18_1	64	9	42	39	8_1	0
3	112 d	77	92	31	17	40	49	32	22_1	9_1	7	10	46	14_1	32	51_1	9	0
4	E 137 c	56 ad	116 bd	55	23	46	66	20	18	33_1	0	25	15	16	28	62_1*	19_1*	7
5	E 147 c	59	W 128 c	52	35	53	52	32_1	15	48_1*	16	13	11	19	68_1	34	18_1	8
6	112	46	121	38	31	49	53	7	8_1*	44	14	12	10	10	42	39	31	9
7	M 119 c	47	102	66	8	40	35	19_1	24_1*	41	13	20	14_1	0	28	35_1*	22	17_1*
8	94	E 50 c	64 a	66	11	37	32	12	9	41	9	19	15	7_1	25	20	9	10
9	85 ab	68 d	E 73 cd	48	28	31	32	0	35_1	18	8_1	42_2	8	10	39	16_1	8	10
10	71	M 103 ac	98 add	40	39	43	25	8_1	38	0	22	53_1	7	21	31	37_1*	17_1*	13
11	E 82 c	99 a	96	34	33	24	27_1*	11	36	8_1	32	47_1	12	8	24	43	10	19
12	62	91	ME 134 acc	10	29	37	20	0	32	10	21	50	12	8	44^1	46	8	36_1*$_1$
13	38	102	E 166 c	9	31	23	9	0	17	12	†26	†49_1	†21_1	†8	45	55	9	57_1
14	28	E 123 cd	185	14	34	54	† 0	†0	†15	†13	24	58_1*	10	31_2	41_1	67_2	7	70
15	E 53 acd	140 ad	191 ad	18	46	98	† 0_1	† 9	†19	†25_2	25	60_1	15	40	31	84_1*	0	76
16	64	W 183 c	M 174 abcd	28	58	130	7	13	17	27	49_1*	58	26_1	50	48	50_1*$_1$	27	49
17	63 a	188	190 b	41	33	136	7	15	25	16	34	60_1*	22	72	50	48_1	64	28
18	E 76 c	158 d	194 a	19	37	115	0	20_1*	30	26_1	21	57	23	57	43	49_2	82	20_1*
19	E 94 c	158	185	11	72	79	7_1	37_2	24	26	12	59	22	65	50	43	76	16_1
20	E 127 c	177 bd	183 a	52	82	40	7_1	59_1*$_1$	19	42_1	25_1*	46	52_1*	54_2	59	42	67	15
21	127 a	154 aad	186 d	47	113	66	16	58	14	39	36	42	53	23	88	16	61_1	21
22	M 146 bb	E 194 ac	199 ad	70	100	86	† 10_1	†82	†12	†34	69_1	52_2	63	10	82	10	46	61_1*$_1$
23	144 b	202	M 163 ac	116	74	36	61	46	29	8	69	57	66_1	10	73_1	0	41	49
24	M 157 bc	213 a	133	109	49	32	71	35	34_1	17_1	82_1	59	62	10	61_1*	16_1*	15	41
25	ME 190 acc	171	108	85	64	44	123_1	8_1*	52	7_1	84_1*	44	32	11	36	16_1*	9	47
26	157	130 a	116	44	67	61	110	0	31	16	64	34	25	7_1	30	25_1*$_1$	8	53
27	161	93 b	91 b	20	67	55	99_1	0	33	29	40	19	34_1*	0	16	22	35	18
28	149	71	80 a	44	41	61	80	0	32	37	42	11	18	0	16	10	47	7_1
29	123 bd	E 83 cd	E 80 c	39	31	38	63	8	31	21	46	21_1	16_1	0	0	19_1	53	8
30	94 b	103	93	41	18	46	28	9	57_1	0	54	26	23	0	22_1*	24	40_1	7
31		98			31						63	20	15	0				
Mean	109.3	116.7	130.3	45.1	43.0	55.1	40.4	20.9	25.6	22.1	32.8	37.1	28.1	18.7	41.3	34.8	28.5	25.7
							N	S	W	E	N	S	W	E	N	S	W	E
Mean for the half-hemispheres							61.3	47.7	65.9	43.1	70.0	46.8	60.9	55.8	76.1	54.2	69.8	60.5

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 group developing into a middle sized or large 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.

The small numbers indicate the number of NEW FORMATIONS of groups; small numbers marked with an asterisk mean small one day-groups.
† Greenwich, Lyon, Madrid, Stonyhurst or Tokyo numbers.

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).

1937	Apr.	May	June	1937	Apr.	May	June	1937	Apr.	May	June
1		1.16	1.11	12	1.17	1.22		23	1.20		1.04
2		1.17	1.02	13		1.04		24	1.25	1.14	1.08
3	1.45		1.17	14	1.08	1.01		25	1.08		1.11
4	1.23	1.06	1.01	15		1.09	1.09	26			1.03
5		1.13	1.07	16		1.12	1.17	27	1.23	1.14	0.91
6		1.19	1.14	17	1.13	1.03	1.08	28		0.99	
7		1.13	1.14	18		1.13	1.08	29	1.25	1.07	1.06
8	1.13	1.22	1.16	19	1.14	1.20	0.96	30	1.22	1.10	1.05
9			1.14	20	1.13	1.16		31		1.12	
10	1.08	1.31	1.13	21	1.11		1.26				
11	1.07		1.12	22	1.22		1.08	Mean	1.18	1.13	1.09

Zurich, September 15, 1937.

W. Brunner.

Sunspot Activity.

	Number of observations	Reduction-factor on Wolfs unit		Number of comparisons
		whole disc	central zone	
Catania	60	0.92	0.84	56
Greenwich	75	0.71	0.78	68
Kiew	82	0.84	0.82	75
Lyons	73	1.00	0.99	69
Madrid	74	0.68	0.67	70
Roma/Campidoglio	45	0.93	0.96	43
South Hadley	—	—	—	—
Stonyhurst	75	0.92	0.89	69
Tokyo	64	0.62	0.63	61
Tsinan	32	0.76	0.67	29
Zürich/Arosa	85	0.60	0.60	—

1937	Relative-numbers for the whole sun disc. July	Aug.	Sept.	Relative-numbers for the central circle zone July	Aug.	Sept.	Relative-numbers for the four quadrants divided from the North-Pole of the Sun: July NW	NE	SW	SE	August NW	NE	SW	SE	September NW	NE	SW	SE
1	69 a	176	108	33	60	31	8	32	29	0	†39	†71	†8	†63	18	71_1	11	8
2	E 91 c	180 a	106 a	40	80	53	34	30_1*	19	8_1	42	75	25	38	18_1	61	19	8
3	M 74 c	M 207 ac	124 d	38	94	55	31_1*	28	8	7	57_1*	82	23	45_1	43_1*	41	33_2*	7
4	65 d	197 d	82	18	115	47	23	25	8	9_1	68	59	41	29	27	29	11	15_1
5	91	205 ab	E 79 c	55	102	43	24_1*	37	0	30_1*	60	49	51	45_1	16	53_1*	10	0
6	E 108 cd	176	M 85 acd	48	73	43	24	48_1	18_1	18	65	7	45	59	44_1	33	8	0
7	143 add	135	E 101 c	60	34	35	32	52	27	32	41	0	58	36	53	41_1	7	0
8	W 185 cd	154 dd	104	77	26	42	50_1	61_1	26_1	48	26	21	48	59_1*	34	63_1	7_1*	0
9	181 bd	173	119 a	70	57	61	70	31	15	65	25	39_1*	47	62_1	48	71	0	0
10	192	183 a	119 a	71	45	88	64	54_1	9	65	40_1	32	69_1*	42_1	†49	†53	†0	$†16_1$
11	W 202 ac	140	110 a	60	38	104	48	71_1*	35_1	48	25	34	52	29	†66	†25	†4	†9
12	223 ad	M 144 c	100 ad	110	43	58	65_1*	71	34_1*	53	23_1*	32	57_1	32	57	35	8	0
13	188 a	114	110	96	34	39	60	55	44	29	4_1*	39	47	24	82	17	11	0
14	215 aad	124 ab	101	104	74	16	58	50	62_1	45	40_1	29	37	18	69	18	7	7_1
15	204 a	128	99	56	92	0	59	52	59	34	55	15	50	8_1	59	25	7	8
16	180	119	76	53	41	10	†41	†41	†67	†22	45	13	61_1*	0	37	32	0	7
17	152 d	75	58 d	47	16	23	22	64	35	31	†40	†0	†38	†0	12	39	0	7
18	167 b	82 dd	M 82 ac	88	27	53	39_1*	62_1*	29	37	37	32_2*	13	0	11_1*	45^1	12_1	14
19	155 a	E 88 c	M 88 c	82	7	65	60_1*	24	25	46_1	32_1*	27_1*	10	19_1	30_1	35	16	7
20	E 149 c	E 96 c	88 a	80	0	53	60	16_1	30	43	20	30	10	36_1	40	25	16	7
21	150	80	M 73 c	46	0	24	59	21	18	52_1	7	32	0	41	32	19_1	14_1	8
22	145 d	W 103 c	102	55	24	32	46	33	29	37	11_1	42_1	0	50	†34	$†28_1$	$†31_1$	†9
23	139 a	EM 139 aacc	E 128 cd	47	44	20	46	32	35	26	22_1	59_1	8	50	†40	$†47_1$	†33	†9
24	126	150	120 a	54	108	30	43	35	40	8	42_1*	52	33	23	32	47	33_1	8
25	124	137 ab	EM 127 cc	44	103	23	26	55_1	43	0	43	44_1*	50	0	25	55_1	32_1	15_1
26	115 d	E 144 c	104	21	69	30	15	62	38	0	57	26	51	10_1	34_1*	43	17	10
27	143 d	143 d	80	47	25	49	34_1*	77	24_1*	8	59	36_1	41	7	17	52	11	0
28	124 b	130	101 ad	65	25	31	41	58	14	11	65	27	30	8	40	31	7	23_1
29	E 128 bc	110	126 aa	55	14	35	58	32	13	25_1	48	30	25	7	61	33	7	25
30	E 139 cd	109 d	E 121 cd	10	18	28	67	30	7	35_1	34	50	20_1*	5	52	48_1	0	21
31	E 131 c	128		25	47		48	46_1	0	37	26	70_1*,	18_1*	14_1*				
Mean	145.1	137.7	100.7	56.6	49.5	40.7	43.7	44.7	27.1	29.3	38.6	37.2	34.4	27.7	39.3	40.5	12.4	8.3
							N	S	W	E	N	S	W	E	N	S	W	E
Mean for the half-hemispheres							88.4	56.4	70.8	74.0	75.9	62.1	73.0	64.9	79.8	20.7	51.7	48.8

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 group developing into a middle sized or large 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.

The small numbers indicate the number of NEW FORMATIONS of groups; small numbers marked with an asterisk mean small one day-groups.

† Greenwich, Lyon, Madrid, Stonyhurst or Tokyo numbers.

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).

1937	July	Aug.	Sept.	1937	July	Aug.	Sept.	1937	July	Aug.	Sept.
1	1.05	1.20	1.08	12		0.97	0.82	23		1.14	
2	1.01	1.16	1.11	13	1.09	1.00		24	1.10	1.06	
3	1.00	1.07		14	1.07	1.04	1.05	25	1.10	1.04	
4	1.02	1.12	1.10	15	1.10	1.14	1.02	26		1.03	
5	1.10		1.10	16	1.14	1.00	1.03	27			
6	1.08		1.07	17	1.08	0.98		28		1.00	
7	1.14	1.10		18	1.14	0.99		29		1.03	1.14
8	1.14	0.99	1.00	19	1.04	0.93		30		1.07	1.16
9	1.11	1.02	0.96	20		1.25		31	1.14	1.11	
10	1.11	1.02	0.94	21	1.01						
11	1.13	0.99	0.88	22		0.97		Mean	1.09	1.05	1.03

Zurich, January 18, 1938.

W. Brunner.

Sunspot Activity.

	Number of observations	Reduction-factor on Wolfs unit		Number of comparisons
		whole disc	central zone	
Catania	34	0.99	0.93	29
Greenwich	58	0.77	0.85	45
Kiew	30	0.84	0.85	25
Lyons	39	0.93	0.86	31
Madrid	54	0.66	0.65	40
Roma/Campidoglio	58	0.98	0.95	50
South Hadley	42	0.89	0.78	33
Stonyhurst	49	0.92	0.90	36
Tokyo	59	0.61	0.67	44
Wellington	33	1.08	0.84	24
Zürich/Arosa	71	0.60	0.60	—

1937	Relative-numbers for the whole sun disc. Oct.	Nov.	Dec.	Relative-numbers for the central circle zone Oct.	Nov.	Dec.	Relative-numbers for the four quadrants divided from the North-Pole of the Sun: NW	NE	SW	SE (October)	NW	NE	SW	SE (November)	NW	NE	SW	SE (December)
1	131	104	14	10	64	7	32	70	10_1	19	31	35_1	27	11	0	0	7	7
2	W 170 c	115	W 33 c	77	77	8	33_1	101	8	28_1	†30	†30	†37	†32	0	0	10_1	23_2
3	214 abd	105 aa	34	136	51	11	48	133_1	16	17	43	10	32	20_1	† 0	†8	†5	†18
4	206 b	67	29	149	37	13	92	89_1*	25	0	26	0	34	7	† 0	†0	†9	† 9
5	175	W 68 c	54	128	34	9	†101	†48	†28	†0	23	0	37_1	8	6_1*	0	14_2	34
6	E 182 ac	49	50	88	10	22	116	57_1	9	0	14	0	25	10	†11	†9	†17	†20
7	173a	34 d	67	69	8	23	†115	†42	†7	†8	11	8	7	8	†12_1	†9	†29_1	†15_1
8	157	E 47 cd	49	77	10	16	†96_1	†44	†18_1	†0	8	19_1	10	10	†11	†11	†44	† 0
9	EEW 153accc	E 68 c	56 d	50	12	11	91_1	38_1	16	8_1	†10	†27_1	†12	†18	†10	†10	†33	†11
10	161 a	M 85 c	E 56 c	47	29	7	93	45	14	9	† 0	†37	†22_1	†25	8	19_1	7	22
11	E 148 acdd	79	E 72 c	83	28	8	65	39	19	25_1	0	32	24	23	0	23	0	49_1
12	137 a	83	70	62	61	27	52	36	29	20	13	24	14	32	0	20	10_1	40
13	142	100 ab	M 107 c	32	59	73	66	19	26	31	14	23	18_1	45_2	10_1	40_1*	17	40
14	E 138 c	106	M 112 acd	40	59	83	50	30	24	34_1	26	14_2	50_1*	16	19	34	25_1	34_1
15	113 d	74	W 141 ac	29	55	95	34	9	19	51	19	16	29	10	57_1	22_1	33_1	29
16	127 a	69	E 155 c	64	16	85	30	10	19	68_2*	23	16	21_1	9_1	61	30_1	56	8
17	127 ab	E 93 c	115	55	16	36	30	0	49	48_1*$_2$	†32	†10	†32	†0	†44	†31	†29	† 4
18	121	90 d	109	41	44	14	22	7_1	42_1	50	27_1*	8	20	35_1	31	43	27	8
19	114 a	74	124 a	23	27	33	13	8	41	52_1	†21	† 9	†18	†26	32_1	55_1*	23	14
20	E 89 cd	82	107 b	12	27	28	10	14_1*	38	27	16	22_1*	26	18_1	55	31	14	7
21	72 a	62	86	10	21	46	7	14	37	14	0	20	19	23	58	0	10	18_1
22	58	62	E 90 cd	0	24	8	0	17	41	0	†18	†20	†26	†12	48	11_1*$_1$	0	31
23	W 63 c	59 a	E 107 c	0	32	14	12_1	23	28	0	9	36_2*$_1$	0	14	45_1	22_2	7_1*	33_1
24	E 75 cd	50	116	29	22	28	9_1*	33	17	16_1*$_1$	†10	†24	†14	† 0	†44	†34	†0	†49
25	69	M 61 c	E 124 acd	25	40	38	0	37	15	17	†22_1	†20	†21	†11	†32	†38	†7	†46_1
26	59 b	M 70 c	114	22	50	81	14	20	9	16	26_2	31_1*$_1$	13	0	†38	†29	†0	†51
27	58	96	125 aa	24	38	105	24	21_1	0	13	64_2*	8	17_1	7_1	21	18_1*	23_1*$_1$	63_1*
28	E 104 c	64	103 a	45	17	54	27	48	0	29_1	37	0	17_1	10	33	18_1	51	0
29	90 ad	68	MM 111 cc	41	15	96	18	40	7	25	24	7_1*	22	15_2	28	23	60_1*$_1$	0
30	E 113 c	47	M 110 c	58	15	47	26	46_1	15	26_1	16	0	16	15	29	13	54	14_1
31	133 a		112 ad	64		43	42	43_1*	23	25					39	8	47	18
Mean	124.9	74.4	88.8	51.3	33.3	37.7	44.1	38.1	20.9	21.8	20.4	16.9	22.0	15.7	25.2	19.7	21.5	23.1
							N	S	W	E	N	S	W	E	N	S	W	E
Mean for the half-hemispheres							82.2	42.7	65.0	59.9	37.3	37.7	42.4	32.6	44.9	44.6	46.7	42.8

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 group developing into a middle sized or large 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.

The small numbers indicate the number of NEW FORMATIONS of groups; small numbers marked with an asterisk mean small one day-groups.
† Greenwich, Lyon, Madrid, Stonyhurst or Tokyo numbers.

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).

1937	Oct.	Nov.	Dec.	1937	Oct.	Nov.	Dec.	1937	Oct.	Nov.	Dec.
1	1.11	1.01		12	0.98	1.10		23	1.10		
2		1.05		13			1.14	24	1.08		1.20
3		1.11		14		1.08	1.07	25	1.00	1.03	1.11
4	1.22	1.06	1.08	15		1.10	1.06	26	0.99		
5	1.09	1.01	1.08	16	1.04		0.97	27	1.08	1.06	
6	1.11		0.96	17	0.98		1.00	28	0.90	1.05	1.07
7		1.04	0.98	18	0.93		1.07	29	0.93		
8	1.04	1.03		19	0.88	1.16	0.98	30			
9	1.01			20	1.03		1.16	31			
10	1.00			21	0.98	1.12	1.13				
11				22	1.04	1.08		Mean	1.02	1.07	1.07

Zurich, March 18, 1938.

W. Brunner.