

QUARTERLY BULLETIN ON SOLAR ACTIVITY

Published by the Eidgen. Sternwarte in Zürich

with financial support from UNESCO

I. SUNSPOTS

SUNSPOT RELATIVE-NUMBERS AND SUNSPOT-AREAS

Co-operating Observatories for Sunspot Relative-Numbers R: Arcetri, Arosa, Beirut, Belgrad, Bucarest, Budapest, Catania, Dabrowa Gornicza, Freiburg, Gdansk, Herstmonceux, Istanbul, Kanzelhöhe, Karlsruhe, Kiev, Kislovodsk, Kodaikanal, Locarno, Madrid, Manila-Baguió City, Meudon, Nara-Ikoma, Nowy Sacz, Potsdam, Prag, Roma-Monte Mario, Santiago, Skalnaté Pleso, Sonneberg, South Hadley, Taipei, Taiwan, Tashkent, Tokyo, Tortosa, Uccle, Wellington, Wrocław, Zürich.

The Sunspot-Areas are based upon measurements made at the Astronomical Observatory Roma-Monte Mario. The true area A of the umbra plus penumbra is expressed in millionths of the visible hemisphere.

1958	January		February		March	
	R	A	R	A	R	A
1	214	--	150	1615	109	--
2	213	--	168	2732	90	--
3	200	3435	161	2464	140	3915
4	217	4196	144	2998	185	3508
5	191	--	177	--	203	4330
6	192	--	187	--	215	4867
7	205	3133	197	--	220	--
8	210	2605	181	3247	198	--
9	232	3012	168	--	186	--
10	252	3097	167	--	181	3325
11	253	--	171	--	173	--
12	255	4684	177	3206	162	--
13	271	--	168	3378	154	--
14	279	5274	174	--	158	--
15	291	5620	159	--	165	2588
16	278	4854	148	--	155	3443
17	247	--	147	--	164	--
18	230	4331	139	--	162	4309
19	212	3297	141	--	155	2121
20	190	--	160	1403	154	--
21	171	--	170	1901	156	3721
22	173	2950	170	1804	163	3707
23	182	2168	173	2353	187	5095
24	137	1772	182	--	204	--
25	137	2327	187	--	180	--
26	143	--	174	--	194	--
27	169	2275	153	2555	226	5407
28	160	2093	125	--	292	6293
29	130	1731			302	--
30	110	1353			338	--
31	132	1514			342	--
Mean	202.5	3130	164.9	2471	190.7	4045

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1958	April		May		June	
	R	A	R	A	R	A
1	290	6862	250	5357	200	2142
2	292	6222	246	4440	154	1747
3	245	5688	269	4511	183	2157
4	253	—	268	4125	203	3584
5	244	—	267	4257	206	4700
6	238	6165	223	4834	192	4196
7	246	4455	198	4847	185	3920
8	246	4715	177	2863	200	3920
9	204	—	150	1962	202	3418
10	197	3163	181	1918	200	3069
11	159	—	166	2218	193	2884
12	140	—	172	1991	197	3080
13	127	—	114	1876	178	2827
14	96	890	103	1539	160	2210
15	99	1864	106	1699	132	2181
16	108	1336	110	1487	100	1130
17	147	—	116	1809	113	1104
18	168	2045	123	1643	100	1127
19	191	1999	140	2238	114	1536
20	192	2366	132	2547	107	1653
21	212	2545	162	2264	141	1808
22	212	3286	165	2118	157	—
23	201	—	171	1986	187	—
24	181	2927	199	3063	185	2711
25	206	4032	189	2330	191	2864
26	182	3532	170	1851	207	2726
27	192	3223	157	2316	207	2194
28	198	3706	160	2142	193	1549
29	207	4569	192	2820	200	1786
30	208	4081	178	2463	159	2222
31			181	2408		
Mean	196.0	3621	175.3	2707	171.5	2516

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1958	July			August			September		
	R	A_R	A_C	R	A_R	A_C	R	A_R	A_C
1	165	2532	2215	262	4787	7032	200	--	3060
2	164	2588	2250	250	3679	4717	221	3642	--
3	190	--	4044	200	3041	3662	230	3938	4632
4	203	2798	5482	177	2372	2263	240	4102	3877
5	209	3660	3254	198	2703	6280	206	3487	4061
6	214	3576	2489	209	3416	6519	220	2232	3222
7	212	3545	3245	223	3525	4402	175	1541	2577
8	205	3202	--	230	3461	3357	160	1872	2950
9	193	3730	--	253	4025	5836	166	1817	1604
10	201	--	2383	244	4037	3124	219	--	--
11	175	2774	2119	253	3670	3962	245	2732	5885
12	130	3547	2924	228	3214	2673	267	--	5829
13	138	3129	3025	220	2863	3958	265	3693	--
14	135	1926	2296	202	2778	4071	233	4642	4672
15	135	2271	1835	190	2709	--	230	3446	4183
16	144	--	1810	177	2729	4252	206	3357	3773
17	160	--	2808	163	--	3657	189	3319	4443
18	181	--	3169	152	2817	4634	205	3494	4066
19	191	3146	6652	128	2131	2036	187	2917	3655
20	188	3866	3555	131	1926	1753	163	2473	4847
21	196	4411	4208	145	2021	2105	156	2574	3863
22	184	3299	6353	160	--	2297	172	3127	6102
23	178	2614	4131	192	2340	2930	175	3589	4061
24	170	3727	4970	183	2897	3930	174	3207	5118
25	179	2687	3500	198	3011	5433	161	3315	5881
26	213	2869	3210	180	3344	2908	169	2228	4060
27	238	2927	3142	196	3296	3512	177	2596	2813
28	250	4246	3604	202	2986	3267	208	2580	--
29	261	5254	5396	225	2689	3030	217	2728	--
30	268	5231	6539	225	2763	1564	201	2984	3614
31	263	5155	6385	210	2394	1863			
Mean	191.4	3412	3689	200.2	3022	3701	201.2	3023	4114

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1958	October			November			December		
	R	A_R	A_C	R	A_R	A_C	R	A_R	A_C
1	223	--	3205	217	--	--	241	--	4976
2	220	2739	--	212	1961	--	234	--	4933
3	207	2559	4024	205	2499	3354	228	--	--
4	175	--	5282	192	2264	3100	221	3412	--
5	157	--	2744	177	1542	--	233	--	--
6	140	--	1155	152	--	--	227	5284	--
7	125	1176	1105	133	--	--	242	4188	--
8	115	1233	--	114	1930	--	255	4431	--
9	116	837	1333	97	1040	2729	252	--	--
10	121	700	4477	85	--	667	258	--	4818
11	123	1988	3835	84	--	484	237	--	4980
12	135	2439	4030	85	--	--	211	3456	--
13	138	1947	1968	93	220	--	198	--	3327
14	142	2152	2490	97	274	293	185	--	--
15	160	2230	2398	95	452	--	150	2222	--
16	219	--	3726	95	443	596	142	2416	1997
17	231	3725	4350	80	433	504	124	--	2942
18	243	3583	--	80	--	--	109	--	--
19	238	2892	4210	98	1280	1902	80	1438	1370
20	232	3966	4443	106	--	--	83	--	2817
21	212	3346	--	125	--	--	92	1731	3043
22	241	3256	--	142	--	--	114	2919	--
23	230	3321	3697	155	--	--	150	3228	--
24	190	2036	3098	178	--	--	185	--	--
25	176	2085	--	211	--	--	218	--	--
26	171	1553	--	237	--	--	229	2955	3184
27	164	1749	2620	247	2325	--	218	2840	--
28	179	2478	--	258	3559	--	183	--	3759
29	200	2734	--	259	--	--	168	1869	2329
30	193	2446	--	260	3618	5838	175	1588	2253
31	210	2154	3109				175	2689	5118
Mean	181.5	2359	3205	152.3	1589	1947	187.6	2917	3456