

SUNSPOT - BULLETIN

1981 , No. 9

Provisional Sunspot - Numbers for September 1981

Dependent on observations at Locarno Specola Solare ,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Twenty two cooperating stations on Oct. 1, 10h30 UT.

Day	R _I	Day	R _I
1	219	16	138
2	183	17	129
3	160	18	145
4	170	19	169
5	195	20	134
6	220	21	175
7	205	22	172
8	208	23	137
9	190	24	148
10	202	25	142
11	164	26	171
12	138	27	181
13	132	28	195
14	148	29	191
15	129	30	190

Mean = 169 .3

Predictions of the smoothed
 monthly Sunspot - Numbers

October 81	126 (+2)	January 82	120 (+2)
November	124 (+2)	February	118 (+2)
December	122 (+2)	March	116

Brussels , October 1 , 1981

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S.I.D.C. SUMMARY OF URSIGRAMS

1981 SEPTEMBER

$r_{im}^i = 169.3$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R_I^i	219	183	160	170	195	220	205	208	190	202	164	138	132	148	129
PPSI	192	150	137	157	168	207	224	203	197	220	168	129	131	135	131
10,7cm	244	239	225	223	245	260	255	254	253	224	238	226	227	239	228
XFI	37	17	36	7	75	28	86	21	34	61	37	23	108	11	134
A_K	5	14	10	11	17	17	5	9	11	10	19	10	11	13	10

SID
SSC
SSC
SID
SFE

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
R_I^i	138	129	145	169	134	175	172	137	148	142	171	181	195	191	190
PPSI	166	170	128	123	97	126	101	95	67	48	54	181	142	125	52
10,7cm	225	219	218	214	219	190	182	183	181	181	188	194	200	204	203
XFI	34	20	28	24	5	5	12	5	4	3	15	15	11	14	11
A_K	8	4	14	30	9	8	14	5	7	12	25	24	8	12	12

SSC
Mag 5

- R_{Im}^i : provisional International monthly Sunspot-Number from S.I.D.C.
- R_I^i : provisional International daily Sunspot-Number from S.I.D.C.
- PPSI : Prompt Photometric Sunspot Index from S.I.D.C. in 10^{-5} W.m^{-2} .
- 10,7 cm: 2800 MHz solar radio flux from Ursigrams in $10^{-22} \text{ W.m}^{-2} \cdot \text{Hz}^{-1}$.
- XFI : X-flare Index from S.I.D.C. on the base of Ursigrams.
- A_K : geomagnetic Index from Ursigrams.

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

PROVISOIRES

PROVISIONAL

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

SEPTEMBRE 1981

DATE	TU	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	PSI 10-6 W-2	QUALITE	OBSER
1	0914	12	148	268	1670.	3	ST
2	0809	11	116	226	1691.	3	ST
3	0813	13	80	210	1457.	3	ST
4	0744	10	108	208	1294.	3	ST
6	0821	13	116	246	1938.	4	PC
7	0839	11	115	225	2070.	2	ST
8	0950	10	99	199	1529.	2	ST
9	0750	10	113	213	1544.	2	ST
10	0851	11	160	270	1655.	3	ST
11	1245	11	116	226	1286.	3	ST
12	1450	6	76	136	1272.	2	AK
13	0845	7	75	145	1395.	2	AK
14	0807	8	79	159	1148.	3	ST
15	1440	4	16	56	1108.	1	GE
19	0815	12	63	163	1439.	2	ST
21	1002	14	84	224	1329.	2	ST
22	1335	14	53	193	1202.	3	ST
23	0920	13	47	177	1250.	2	ST
24	0842	11	37	147	1158.	3	ST
27	1000	12	77	197	1237.	3	PC
28	1531	15	86	236	1892.	3	GE
29	0852	15	111	261	1971.	4	ST

LE SOLEIL A ETE OBSERVE 22 JOURS SUR 30 POSSIBLES

LE NOMBRE RELATIF DE WOLF MOYEN EST DE 200.3

EDITEUR RESPONSABLE

A. KOECKELENDORCH

OBSERVATOIRE ROYAL DE BELGIQUE

UCCLE BELGIUM

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

UCCLE FOR 1961 SEPTEMBER

		K* = .940 (*)					
1	251	7	211	13	136	19	172
2	212	8	187	14	147	20	***
3	197	9	200	15	52	21	210
4	198	10	253	16	***	22	181
5	***	11	212	17	***	23	166
6	231	12	129	18	***	24	138
						25	***
						26	***
						27	185
						28	721
						29	245
						30	***
						31	***

THE SUN WAS OBSERVED 22 DAYS ON 30 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 167

* K* IS THE MEAN OF THE MONTHLY K'S FOR THE LAST FIVE YEARS

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1961 SEPTEMBER
 E AND F BRUNNER'S TYPE GROUPS

UCCLE NO	EAST LINE		DATE AND TYPE		WEST LINE	
	DATE	IST OBS	GRP	LAST OBS	DATE	
18-1712	8 23.7	24 G	8 30.4	4 H	9 6.2	
31-1712	8 29.3	20 G	9 9.1	11 H	9 11.8	
39-1712	9 3.7	4 H	9 10.3	15 E	9 17.2	
1-1713	9 10.0	10 H	9 16.7	22 G	9 23.5	

PROBABLE RETURN OF MAJOR GROUPS FOR 1961 OCTOBER

UCCLE NO	NEW EAST LINE	NEW GRP	NEW WEST LINE
18	9 19.8	9 26.6	10 3.3
31	9 26.7	10 3.4	10 10.2
39	9 30.7	10 7.4	10 14.2
1	10 7.1	10 13.8	10 20.6