

SUNSPOT - BULLETIN

1981 , No. 10

Provisional Sunspot - Numbers for October 1981

Dependent on observations at Locarno Specola Solare ,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Twenty four cooperating stations on Nov . 2 , 11h30 UT.

Day	R _I	Day	R _I
1	216	16	223
2	206	17	219
3	219	18	214
4	189	19	189
5	195	20	183
6	169	21	151
7	171	22	130
8	185	23	107
9	177	24	109
10	144	25	101
11	131	26	92
12	114	27	63
13	183	28	92
14	187	29	131
15	212	30	152
		31	144

Mean = 161 .2

Predictions of the smoothed
 monthly Sunspot - Numbers

.November 81	128 (+4)	.February 82	122 (+4)
.December	126 (+4)	.March	120 (+4)
.January 82	124 (+4)	.April	118

Brussels , November 2 , 1981

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S.I.D.C. SUMMARY OF URSIGRAMS

1981 OCTOBER

$R_{Im}^1 = 161.2$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
R_I^1	216	206	219	189	195	169	171	185	177	144	131	114	184	187	212	
PPSI	138	82	91	72	103	104	110	127	94	130	135	233	352	486	419	
10,7cm	214	208	196	191	199	201	207	206	203	214	221	234	244	277	289	
XFI	20	26	29	13	18	7	144	38	26	58	26	166	78	151	59	
A_K	10	23	27	20	10	8	28	22	21	27	15	10	22	44	16	
XI	0/0	2/0	0/0	0/0	0/0	0/0	2/1	2/0	0/0	3/0	1/0	6/1	7/0	2/1	3/0	
	ssc				p.sid		p	p	ssc	p.pca	p.pca	sid	pca	sid	p //	
												ssc			pca.ssc	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
R_I^1	223	219	214	189	183	151	130	107	109	101	92	63	92	131	152	144
PPSI	200	165	390	298	214	152	128	78	79	69	80	70	67	86	123	147
10,7cm	305	305	305	281	267	240	221	210	203	188	174	174	185	191	220	
XFI	85	31	32	18	58	22	15	1	17	4	1	12	4	7	9	
A_K	8	17	8	21	21	28	60	25	23	12	8	12	20	13	12	
XI	5/0	0/0	1/0	0/0	2/0	2/0	0/0	0/0	1/0	0/0	0/0	0/0	0/0	0/0	0/0	
	sid	mag.st		sid	ssc											

R_{Im}^1 : provisional International monthly Sunspot-Number from S.I.D.C.

R_I^1 : 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 $10^{-22} \text{ W.m}^{-2}.\text{Hz}^{-1}$.

XFI : X-flare Index from S.I.D.C. on the base of Ursigrams.

XI ; report of the fifth group of the 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

OCTOBRE 1981

DATE	TU	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	PPSI 10-6 WM-2	QUALITE	OBSE-
1	0832	15	96	246	2008.	3	ST
3	0907	15	108	258	1263.	2	ST
5	0920	14	62	202	894.	1	GE
6	1447	11	80	190	1006.	2	ST
7	0835	12	86	206	978.	3	ST
8	1355	13	79	209	1172.	3	ST
9	0831	13	48	178	950.	1	ST
11	1000	6	20	60	1265.	1	CE
13	1240	11	116	226	1929.	2	ST
16	0935	10	117	217	1981.	1	ST
19	0948	8	62	162	1706.	1	ST
21	0855	8	58	138	1664.	2	GE
23	1255	8	33	113	782.	1	ST
24	1037	9	36	126	839.	2	ST
25	1132	8	23	103	650.	1	PC
26	1144	8	21	101	799.	2	ST
27	0922	6	20	110	889.	3	ST
28	0935	7	32	102	980.	2	ST
29	1320	12	51	171	1065.	1	ST
30	0930	13	47	177	1170.	2	ST

LE SOLEIL A ETE OBSERVE 20 JOURS SUR 31 POSSIBLES

LE NOMBRE RELATIF DE WOLF MOYEN EST DE 1265.3

EDITEUR RESPONSABLE

A. KOECKELENEBACH

OBSERVATOIRE ROYAL DE BELGIQUE

UCCLE BELGIUM

NORMALISED UCCLE OBSERVATIONAL SUBJECT NUMBERS

UCCLE FOR 1951				OCTOBER			
K* = .080 (#)							
1	217	7	182	13	200	19	143
2	***	8	185	14	***	20	***
3	228	9	157	15	***	21	122
4	***	10	***	16	190	22	***
5	178	11	70	17	***	27	100
6	168	12	***	18	***	24	111
						28	91
						26	91
						27	88
						28	190
						29	181
						30	157
						31	***

THE SUN WAS OBSERVED 27 DAYS ON 31 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 146

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1951 OCTOBER
 E AND F BRUNNER'S TYPE GROUPS

UCCLE NO	EAST LIMB DATE	EAST LIME	IST OBS	DATE AND TYPE	TYPE	LAST OBS	WEST LIME DATE
1-1714	10 7.4		8 C	10 14.1		19 E	10 20.9
7-1714	10 11.9		13 E	10 18.7		24 H	10 25.4
11-1714	10 13.9		16 E	10 20.9		26 A	10 27.4

PROBABLE RETURN OF MAJOR GROUPS FOR 1951 NOVEMBER

NO	NEW EAST LIMB	NEW CMP	NEW WEST LIME
1	11 4.3	11 11.0	11 17.8
7	11 8.2	11 15.0	11 21.7
11	11 10.0	11 16.7	11 23.5