

SUNSPOT BULLETIN

1982 , No. 1

Provisional Sunspot - Numbers for January 1982

Dependent on observations at Locarno Spacola Solare ,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.

Twenty three cooperating stations on 1982 Feb. 1st
 on 11h UT

Day	R _I	Day	R _I
1	92	16	76
2	94	17	111
3	112	18	139
4	109	19	143
5	99	20	134
6	86	21	134
7	94	22	121
8	97	23	93
9	98	24	70
10	85	25	82
11	46	26	119
12	52	27	125
13	51	28	168
14	58	29	216
15	81	30	211
		31	237

Mean = 110 .7

Predictions of the smoothed
 monthly Sunspot - Numbers

. February	124 (+5)	. May	118 (+6)
. March	122 (+5)	. June	115 (+5)
. April	120 (+6)	. July	113

Predicted data are given with a dispersion of $\pm 15\%$

Brussels , February 1st 1982

A . Koackelenbergh .

Reproduction permitted if the source is mentioned .

c/o Dr. André Koackelenbergh, 3, avenue Circulaire, B 1180 BRUXELLES. BELGIUM.
 TELEX : 21565 obsbel - Tél. : (02) 375 24 84 EXT 611

S.I.D.C. SUMMARY OF URSIGRAMS

1982 JANUARY $r'_{im} = 110,7$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R'_I	92	94	112	109	99	86	94	97	98	85	46	52	51	58	81
PPSI	56	108	99	85	59	63	83	79	129	77	60	36	35	32	56
10,7cm	186	183	182	176	171	173	178	216	170	151	141	137	132	135	141
XFI	22	17	9	12	2	7	8	19	22	3	4	4	15	7	10
XI	1/0	2/0	1/0	0/0	0/0	0/0	0/0	1/0	3/0	0/0	0/0	0/0	1/0	0/0	0/0
A_K	12	12	28	12	3	8	12	12	4	5	5	2	3	4	12

sid

sid

ssc

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
R'_I	76	111	139	143	134	134	121	93	70	82	119	125	168	216	211	237
PPSI	88	103	93	81	91	201	-	-	58	65	53	106	217	260	339	485
10,7cm	152	158	173	175	173	169	158	153	154	177	192	203	233	275	293	298
XFI	12	12	10	0	2	11	16	1	9	21	11	40	62	61	177	58
XI	0/0	0/0	0/0	0/0	0/0	0/0	1/0	0/0	2/0	0/0	0/0	2/0	2/0	2/0	4/1	3/0
A_K	23	10	16	3	6	18	26	25	22	10	9	15	13	10	23	32

ssc

sid ssc sid ssc
3b P pca

- R'_{Im} : provisional International monthly Sunspot-Number from S.I.D.C. ^P
- R'_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.
- XI : X-flare Index on the basis of the group five of the Ursigr.
- 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

JANVIER 1982

DATE	TU	NOMBRE DE GROUPE	NOMBRE DE TACHES	NOMBRE DE WOLF	PROB. 10-6 ANN-1	QUALITE	GRSFR
6	0949	8	32	112	587.	3	ST
7	0943	7	41	111	832.	2	ST
8	0910	5	11	61	793.	1	ST
10	0916	4	6	46	676.	1	GE
12	0932	4	15	55	334.	3	ST
13	1054	3	23	53	322.	2	ST
14	1125	4	28	68	216.	2	ST
15	1217	6	47	107	368.	4	ST
16	1000	4	31	71	805.	2	AK
17	1051	8	37	117	866.	2	GE
18	0906	11	75	115	1176.	3	ST
19	1447	14	66	216	1014.	3	ST
20	1242	13	67	197	918.	4	ST
26	1503	13	51	181	625.	2	ST

LE SOLEIL A ETE OBSERVE 14 JOURS SUR 31 POSSIBLES

LE NOMBRE RELATIF DE WOLF MOYEN EST DE 112.1

EDITEUR RESPONSABLE

A. KOECKELINPERCH

OBSERVATOIRE ROYAL DE BELGIQUE

UCCLE BELGIUM

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

UCCLE FOR 1982				JANUARY					
K* = **** (*)									
1	***	7	110	13	82	19	100	25	***
2	***	8	80	14	87	20	100	26	100
3	***	9	***	15	100	21	***	27	***
4	***	10	40	16	70	22	***	28	***
5	***	11	***	17	110	23	***	29	***
6	111	12	84	18	104	24	***	30	***
								31	***

THE SUN WAS OBSERVED 14 DAYS OR IF POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN KOLF NUMBER IS 111

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1982 JANUARY
 E AND F PENNER'S TYPE GROUPS

UCCLE	EAST LINE	DATE	AND TYPE	WEST LINE
NO	DATE	IST OBS	GRP	LAST OBS DATE
NONE				

PROBABLE RETURN OF MAJOR GROUPS FOR 1982 FEBRUARY

NO	NEW EAST LINE	NEW GRP	NEW WEST LINE
NONE			