



SUNSPOT - BULLETIN

1983 , No. 1

Provisional Sunspot - Numbers for JANUARY 1983

Dependent on observations at Locarno Specola Solare ,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Twenty one cooperating stations on Feb. 1st , 10h45 UT .

Day	R _I	Day	R _I
1	68	16	89
2	77	17	102
3	55	18	86
4	63	19	93
5	82	20	81
6	110	21	74
7	109	22	73
8	126	23	64
9	100	24	58
10	83	25	75
11	90	26	77
12	77	27	70
13	94	28	89
14	92	29	99
15	92	30	101
		31	110

MEAN = 85 . 8

We recall that it is possible to communicate these
 values by a telex network on the first day of the month.

Predictions of the smoothed
 monthly Sunspot - Numbers

Classical Method		SIDC adjusted values	
1983 Feb. 96	1983 May. 90	1983 Feb. 96	May 90
Mar. 94	Jun. 88	Mar. 94	Jun. 88
Apr. 92	Jul. 86	Apr. 92	Jul. 86

Brussels , February 2d , 1983

A . Koeckelenbergh .

Reproduction permitted if the source is mentioned .

d. Resp . Dr. André Koeckelenbergh, 3, avenue Circulaire, B 1180 BRUXELLES. BELGIUM.
 TELEX : 21565 obsbel - Tél. : (02) 375 24 84 EXT 611

S.I.D.C. SUMMARY OF URSIGRAMS

JANUARY 1983 $r_{im} = 85.8$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R_I	68	77	55	63	82	110	109	126	100	83	90	77	94	92	92
PPSI	68	66	92	58	104	136	107	135	88	83	83	50	59	73	102
10,7cm	136	136	141	143	160	170	169	165	155	149	144	140	140	142	146
COS													155	144	138
XFI	8	13	1	2	3	10	12	19	11	12	6	12	4	3	7
XI	0/0	1/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
A_K	10	6	10	12	5	3	4	10	25	58	9	16	9	8	25

SSC SSC

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
R_I	89	102	86	93	81	74	73	64	58	75	77	70	89	99	101	110
PPSI	142	138	155	200	161	114	73	50	23	24	121	175	164	161	184	215
10,7cm	145	143	139	132	125	120	117	119	118	127	148	138	145	154	160	162
COS	139	139	134													127
XFI	7	13	5	3	0	1	2	1	8	9	11	20	13	14	3	20
XI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
A_K	25	28	18	16	16	14	8	11	24	16	12	11	10	17	18	14

R_I : provisional International Sunspot-Numbers .

PPSI : Prompt Photometric Sunspot Index in 0.00001 W/m^2 .

10.7 cm: 2800 MHz solar flux from the ursigrams .

COS : Thousands of cosmic rays counts from the ursigrams .

XFI: X-flare Index from the SIDC .

XI : X-flare Index from the ursigrams .

A_K : Geomagnetic Index from the Meudon 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 1983

DATE	UT	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	NOMB REL ZONE CENTRALE	PPSI 10-6 WM-2	QUAL	OBS
1	1130	5	26	76	28	566.	2	AK
4	1045	6	28	88	53	629.	4	AK
6	1350	7	46	116	34	1194.	2	AK
7	1015	8	39	119	60	1189.	4	HB
8	1015	11	65	175	78	1275.	3	AK
11	1120	6	21	81	40	1018.	1	HB
18	0955	7	23	93	71	1593.	2	HB
20	1020	6	20	80	68	1471.	1	HB
23	0945	5	18	68	11	553.	4	PC
24	1100	5	8	58	0	210.	2	HB
29	1000	8	62	142	82	1851.	3	CG
30	0940	8	84	164	91	1813.	4	AK

LE SOLEIL A ETE OBSERVE 12 JOURS SUR 31 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 105.0

ED. RESP. DR. ANDRE KOECKELENBERGH
3, AV. CIRCULAIRE, B 1180 BRUXELLES. BELGIUM.
TELEX : 21565 OBSBEL - TEL. : (02) 3752484 EXT 611

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* = K*U FOR 1983 JANUARY

K* = 1.000 (*)

1	75	7	118	13	***	19	***	25	***
2	***	8	174	14	***	20	79	26	***
3	***	9	***	15	***	21	***	27	***
4	87	10	***	16	***	22	***	28	***
5	***	11	80	17	***	23	67	29	141
6	115	12	***	18	92	24	57	30	163
								31	***

THE SUN WAS OBSERVED 12 DAYS ON 31 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 104

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1983 JANUARY
 E AND F BRUNNER'S TYPE GROUPS

UCCLE NO	EAST LIMB DATE	DATE AND TYPE	WEST LIMB DATE
		IST OBS CMP LAST OBS	
9-1731	1 21.8	29 E 1 28.6 30 E	2 4.3

PROBABLE RETURN OF MAJOR GROUPS FOR 1983 FEBRUARY

NO	NEW EAST LIMB	NEW CMP	NEW WEST LIMB
9	2 17.9	2 24.6	3 3.4