

SUNSPOT - BULLETIN

1983 , No. 11

Provisional Sunspot - Numbers for NOVEMBER 1983

 Dependent on observations at Locarno Specola Solare ,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Thirty seven cooperating stations on Dec.1st,0930 UT

Day	R _I	Day	R _I
1	17	16	38
2	25	17	31
3	37	18	36
4	51	19	26
5	66	20	13
6	68	21	13
7	84	22	0
8	90	23	0
9	70	24	0
10	68	25	0
11	56	26	0
12	47	27	8
13	40	28	12
14	29	29	19
15	28	30	24

MEAN = 33.2

Predictions of the smoothed
 monthly Sunspot - Numbers

Classical Method		SIDC Adjusted Values	
1983 Dec. 64	1984 Mar. 59	1983 Dec. 54	1984 Mar.49
1984 Jan. 62	Apr. 57	1984 Jan. 52	Apr.47
Feb. 61	May 56	Feb. 51	May 46

Brussels , December 1st, 1983

A . Koeckelenbergh .

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S.I.D.C. SUMMARY OF URSIGRAMS

1983 NOVEMBER $r_{im} = 33.2$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R_I	17	25	37	51	66	68	84	90	70	68	56	47	40	29	28
FPSI	3	5	15	41	61	81	59	55	41	38	28	24	4	13	12
10,7cm	102	99	99	105	107	106	111	106	101	103	99	92	94	93	93
COS	76	77	74	78	82	79	74	80	85	87	94	99	96	85	83
XFI	0	0	3	3	3	0	6	22	1	1	0	2	0	4	1
XI	1/0	0/0	0/0	0/0	0/0	0/0	0/0	1/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
A_K	24	28	27	8	4	2	13	28	56	40	42	48	27	27	26

ssc lb mgst

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
R_I	38	31	36	26	13	13	0	0	0	0	0	8	12	19	24
FPSI	24	19	20	7	3	2	0	0	0	0	0	3	3	6	4
10,7cm	93	88	86	84	82	81	82	80	81	81	83	87	89	92	93
COS	74	74	80	80	75		71		63	69	66	65	65	74	
XFI	1	0		0	0	0	0	0	0	0	0	0	1	2	1
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
A_K	40	32	24	20	28	13	7	1	10	19	25	8	19	24	23

ssc

R_I : provisional International Sunspot-Numbers .

FPSI : 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

NOVEMBRE 1983

DATE	UT	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	NOMB REL ZONE CENTRALE	PPSI 10-6 WM-2	QUAL	OBS
1	1020	1	1	11	0	3.	2	AK
3	0840	3	8	38	0	160.	2	HB
4	0916	3	13	43	0	317.	2	HB
5	1100	5	38	88	14	608.	3	CG
7	1241	6	39	99	67	380.	3	HB
8	1314	7	27	97	86	497.	3	ST
9	0844	7	25	95	84	391.	1	HB
10	0858	6	20	80	27	360.	1	ST
11	0855	5	13	63	25	282.	2	HB
12	1255	4	16	56	12	485.	2	CG
13	0905	5	13	63	17	27.	4	AK
14	1328	4	23	63	47	76.	3	ST
16	1017	2	16	36	36	121.	1	ST
18	1219	2	25	45	25	50.	1	HB
21	1204	1	12	22	22	16.	1	ST
22	1045	1	3	13	13	4.	1	ST
23	0953	0	0	0	0	0.	3	ST
24	1211	0	0	0	0	0.	2	ST
29	1240	1	2	12	0	2.	2	HB
30	1254	2	12	32	0	13.	2	ST

LE SOLEIL A ETE OBSERVE 20 JOURS SUR 30 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 47.8

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NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* = K*U FOR 1983 NOVEMBER

K* = 1.037 (*)

1	11	7	102	13	65	19	***	25	***
2	***	8	100	14	65	20	***	26	***
3	39	9	98	15	***	21	22	27	***
4	44	10	82	16	37	22	13	28	***
5	91	11	65	17	***	23	0	29	12
6	***	12	58	18	46	24	0	30	33
								31	***

THE SUN WAS OBSERVED 20 DAYS ON 30 POSSIBLE
THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 49

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

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

UCCLE EAST LIMB	DATE AND TYPE			WEST LIMB	
NO	DATE	IST OBS	CMP	LAST OBS	DATE

NONE

PROBABLE RETURN OF MAJOR GROUPS FOR 1983 JANUARY
NO NEW EAST LIMB NEW CMP NEW WEST LIMB

NONE