



SUNSPOT - BULLETIN

1983 , No.6

Provisional Sunspot - Numbers for JUNE 1983

Dependent on observations at Locarno Specola Solare ,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Thirty one cooperating stations on July 1st, 0830UT

Day	R _I	Day	R _I
1	61	16	84
2	72	17	79
3	73	18	78
4	68	19	103
5	77	20	117
6	85	21	117
7	104	22	136
8	92	23	143
9	100	24	122
10	86	25	122
11	73	26	110
12	66	27	92
13	67	28	83
14	88	29	68
15	92	30	59

MEAN = 90.6

Predictions of the smoothed
 monthly Sunspot - Numbers

Classical Method				SIDC Adjusted Values			
1983 Jul 80	1983 Oct 74	1983 Jul 82	1983 Oct 76	1983 Aug 80	1983 Nov 74	1983 Sep 78	1983 Dec 73
Aug 78	Nov 72	Aug 80	Nov 74	Sep 78	Dec 73		
Sep 76	Dec 71	Sep 78	Dec 73				

Brussels , July 1st , 1983

A . Koeckelenbergh .

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Ed.Resp . Dr. André Koeckelenbergh, 3, avenue Circulaire, B 1180 BRUXELLES. BELGIUM.
 TELEX : 21555 obsbel - Tél. : (02) 375 24 84 EXT 611

S.I.D.C. SUMMARY OF URSIGRAMS

1983 JUNE $r_{im} = 90.6$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R_I'	61	72	73	68	77	85	104	92	100	86	73	66	67	88	92
PPSI	47	64	72	99	129	169	184	178	151	134	90	68	48	37	26
10,7cm	128	133	135	145	167	148	174	169	157	154	135	131	124	123	125
COS	115	118	119	118	114	114	106	98	-	119	120	111	120	119	114
XFI	20	18	23	37	60	163	28	18	28	21	11	7	19	14	5
XI	1/0	1/0	0/0	2/0	3/0	4/1	1/0	1/0	1/0	1/0	0/0	0/0	0/0	0/0	0/0
A_K	15	8	10	4	10	6	12	17	23	34	15	22	53	13	18

lb ssc ssc sb ssc ssc P
P ssc

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
R_I'	84	79	78	103	117	117	136	143	122	122	110	92	83	68	59
PPSI	37	49	63	72	81	87	95	111	71	61	55	44	30	30	39
10,7cm	127	127	126	130	133	139	144	145	139	137	142	133	129	125	
COS	112	102	104	105	107	107	112	107	106	102	106	114	108	108	
XFI	23	20	5	38	15	18	16	8	11	19	29	11	28	29	
XI	1/0	1/0	0/0	1/0	0/0	1/0	0/0	0/0	0/0	3/0	2/0	0/0	1/0	2/0	
A_K	12	20	33	21	18	18	19	17	8	6	18	8	15	15	

lb ssc
P
sid

2b

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 SIOC .

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

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

JUN 1983

DATE	TU	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	PPSI 10-6 WM-2	QUALITE	OBSER
1	0800	4	38	78	542.	3	ST
2	1110	4	46	86	665.	2	CG
3	1310	4	53	93	694.	3	AK
4	1110	3	39	69	662.	2	CG
5	0855	3	70	100	1173.	2	AK
6	0800	3	92	122	1263.	3	AK
7	0934	4	97	137	1336.	3	ST
9	0637	4	102	142	1453.	1	ST
10	1256	3	56	86	1279.	1	ST
11	0915	3	53	83	841.	1	CG
12	0850	4	80	120	809.	3	AK
13	0935	5	68	118	677.	3	ST
14	0556	6	57	117	404.	1	ST
15	0558	7	58	128	318.	2	ST
16	0600	7	48	118	491.	1	ST
17	0557	7	64	134	583.	2	ST
18	1110	4	48	88	716.	2	CG
19	0820	7	65	135	874.	3	AK
20	0851	8	92	172	1178.	2	ST
21	0814	8	93	173	1026.	1	ST
22	0601	7	124	194	1333.	2	ST
23	0753	9	132	222	1076.	2	ST
24	0832	10	75	175	693.	2	ST
26	0815	9	55	145	561.	3	AK
27	1345	9	48	138	531.	3	AK
28	0755	10	52	152	298.	2	ST
29	0716	6	27	87	189.	1	ST

LE SOLEIL A ETE OBSERVE 27 JOURS SUR 30 POSSIBLES

LE NOMBRE RELATIF DE WOLF MOYEN EST DE 126.4

EDITEUR RESPONSABLE

A. KOECKELENBERGH

OBSERVATOIRE ROYAL DE BELGIQUE

UCCLE BELGIUM

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U' = K*U FOR 1983 JUNE

K* = .880 (*)

1	68	7	120	13	103	19	118	25	***
2	75	8	***	14	102	20	151	26	127
3	81	9	124	15	112	21	152	27	121
4	60	10	75	16	103	22	170	28	133
5	87	11	73	17	117	23	195	29	76
6	107	12	105	18	77	24	153	30	***

THE SUN WAS OBSERVED 27 DAYS ON 30 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 110

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

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

UCCLE NO	EAST LIMB DATE	DATE	TYPE	IST OBS	DATE AND TYPE CMP	LAST OBS	WEST LIMB DATE
1-1736	5	28.9	29	H	6 4.7	11 G	6 11.4
3-1736	6	4.4	5	E	6 11.2	16 H	6 17.9

PROBABLE RETURN OF MAJOR GROUPS FOR 1983 JULY

NO	NEW EAST LIMB	NEW CMP	NEW WEST LIMB
1	6 25.7	7 2.5	7 9.2
3	7 1.1	7 7.9	7 14.6