

SUNSPOT - BULLETIN

1982 , No. 7

Provisional Sunspot - Numbers for JULY 1982

Dependent on observations at Locarno Specola Solare ,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Twenty two cooperating stations on Aug.1st , 09hUT.

Day	R _I	Day	R _I
1	50	16	263
2	41	17	272
3	33	18	220
4	42	19	200
5	50	20	180
6	32	21	129
7	33	22	99
8	49	23	74
9	61	24	27
10	110	25	25
11	146	26	37
12	177	27	22
13	219	28	19
14	222	29	23
15	234	30	38
		31	54

Mean = 102 .6

Predictions of the smoothed
 monthly Sunspot - Numbers

Classical method		SIDC Adjusted Values			
1982	Aug. 119	Nov. 111	1982	Aug. 135	Nov.127
	Sep. 117	Dec. 109		Sep. 133	Dec.125
	Oct. 113	Jan. 107		Oct. 129	Jan.123

Brussels , August 1st , 1982

A . Koeckelenbergh .

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S.I.D.C. SUMMARY OF URSIGRAMS

1962 JULY $R_{Im} = 109.6$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R_I	50	41	33	42	50	32	33	49	61	110	146	177	219	222	234
PPSI	6	4	5	9	13	15	16	13	46	102	182	259	293	361	391
10,7cm	103	103	106	108	110	117	128	140	165	203	223	245	250	262	265
XFI	0	4	2	15	1	7	5	63	317	125	46	196	72	94	65
XI	0/0	0/0	0/0	1/0	0/0	0/0	1/0	6/0	8/2	13/0	16/0	10/1	5/0	6/0	4/0
A_K	20	12	8	3	6	17	22	18	14	11	32	36	150	136	31

ssc sid 3b P--> P
sid sid ssc sid pca 2b
ssc

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
R_I	263	272	220	200	180	129	99	74	27	25	37	22	19	23	38	54
PPSI	444	350	318	245	149	86	52	13	4	6	4	4	5	10	14	28
10,7cm	271	265	246	227	190	172	145	125	114	105	99	95	94	95	109	
XFI	79	187	50	213	68	29	4	4	7	6	0	0	0	0	5	
XI	5/0	4/1	1/0	10/1	6/0	3/0	2/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	
A_K	37	25	27	33	23	19	18	14	40	27	29	27	20	22	23	

ssc 2b P-->
sid sid pca

- R_{Im} : provisional International monthly Sunspot-Number from the S.I.D.C.
- R_I : provisional International daily Sunspot-Number from the S.I.D.C.
- PPSI : Prompt Photometric Sunspot Index from the S.I.D.C. in $10^{-9} W.m^{-2}$. Quantity to subtract at the mean solar constant, due to the presence of sunspots.
- 10,7 cm : 2800 Mhz solar flux from the uringrams, in $10^{-2} W.m^{-2} Hz^{-1}$
- XFI : X-flare Index from the S.I.D.C. on the base of the uringrams. XFI = number of C class flares $\times 10 +$ nb of X $\times 100$. (C: not assoc. with signif. X rays ; M assoc with signif. X rays ; X assoc with import. X flux).
- XI : X-flare index from uringrams (nb. of M-flares / nb. of X)
- A_K : Geomagnetic Index of Ringat from uringrams.

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

SUNSPOT RELATIVE NUMBERS

STATION UCCEL BELGIUM

JUILLET 1957

DATE	UT	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	PSI 10-6 >0-7	QUALITE	OBSER
1	0712	3	5	35	8.	1	GE
2	0718	2	3	33	39.	1	GE
4	0800	3	11	91	110.	2	HB
5	1340	2	13	33	187.	2	HB
6	1310	2	6	26	233.	2	GE
7	1533	2	7	27	250.	2	GE
8	0809	4	18	58	163.	3	GE
9	1000	5	25	75	407.	2	GE
10	1143	7	36	106	500.	3	HB
11	1100	8	59	179	1410.	2	GB
12	0703	11	81	191	1690.	2	GE
13	0858	10	110	210	1991.	2	GE
14	0814	11	110	220	2370.	2	GE
15	0715	8	158	236	2600.	2	GE
16	1500	11	164	270	3020.	2	AR
17	0855	11	191	309	3290.	4	AR
18	0830	11	201	311	3230.	3	AR
19	0753	10	114	234	2320.	4	HB
20	0535	9	79	179	2000.	2	HE
21	0740	9	39	109	1600.	1	HB
22	0800	7	21	91	720.	1	HE
26	0713	1	1	11	7.	1	HB
28	0912	1	7	17	90.	2	HB
29	0831	2	4	24	39.	2	GE
30	0650	3	10	30	50.	2	GE
31	1600	4	40	60	340.	3	AR

LE SOLEIL A ETE OBSERVE 26 JOURS SUR 31 POSSIBLES
 LE NOMBRE RELATIF DE WOLF MOYEN EST DE 170.1
 ECRITEUR RESPONSABLE
 A. KOECKELINBERGEN
 OBSERVATOIRE ROYAL DE BELGIQUE
 UCCEL BELGIUM

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* = K*U FOR 1982 JULY

K* = .922 (*)

1	32	7	24	13	193	19	197	25	***
2	21	8	53	14	202	20	155	26	10
3	***	9	69	15	219	21	118	27	***
4	37	10	97	16	252	22	83	28	15
5	30	11	165	17	277	23	***	29	22
6	23	12	176	18	286	24	***	30	36
								31	73

THE SUN WAS OBSERVED 26 DAYS ON 31 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 1982 JULY
 E AND F BRUNNER'S TYPE GROUPS

UCCLE NO	EAST LIMB DATE	IST OBS	DATE AND TYPE	WEST LIMB DATE
2-1724	7 8.1	8 H	7 14.8	7 21.6
7-1724	7 11.4	12 J	7 18.1	7 24.9
10-1724	7 11.5	16 C	7 18.2	7 25.0

PROBABLE RETURN OF MAJOR GROUPS FOR 1982 AUGUST

NO	NEW EAST LIMB	NEW CMP	NEW WEST LIMB
2	8 4.9	8 11.7	8 18.4
10	8 7.5	8 14.3	8 21.0