



SUNSPOT BULLETIN

Supported by UNESCO and ICSU through the FAGS

1986 , No. 6

Provisional Sunspot - - Numbers for JUNE 1986

Dependent on observations at Locarno Specola Solare,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Thirty three coop. stations on July 1st, 0900 UT.

Day	R'_I	Day	R'_I
1	7	16	0
2	0	17	0
3	0	18	0
4	0	19	0
5	0	20	0
6	0	21	0
7	0	22	0
8	0	23	0
9	0	24	0
10	8	25	8
11	0	26	0
12	0	27	0
13	0	28	0
14	0	29	0
15	0	30	0

MEAN = 0.8

Note: We consider only spots who have been observed by three or more stations.

Predictions of the smoothed
 monthly Sunspot - Numbers

Classical Method		S.I.D.C. Adjusted Values	
1986 Jul. 8	1986 Oct. 6	1986 Jul. 2	1986 Oct. 1
Aug. 7	Nov. 5	Aug. 2	Nov. 0
Sep. 6	Dec. 4	Sep. 1	Dec. 0 (2 to-4)

Precision on the sixth predicted value : ± 3 Classical estimated smoothed value for 1987 March 1 ± 4 Forecasted values are evaluated on the basis of the latest provisional monthly smoothed value (1985 December) : $15.4 \pm 5\%$

Brussels, July 1st, 1986

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S.I.D.C. SUMMARY OF URSIGRAMS
1986 JUNE $R'_{im} = 0.8$

Date	R'_1	PPSI	2800	COS	XFI	XI	A_k
1	7	0	69	006	0	0/0	17
2	0	0	68	001	0	0/0	10
3	0	0	68	003	0	0/0	14
4	0	0	67	000	0	0/0	8
5	0	0	67	006	0	0/0	6
6	0	0	68	006	0	0/0	7
7	0	0	68	005	0/0	0/0	10
8	7	0	68	002	0	0/0	16
9	0	0	69	005	0	0/0	10
10	8	0	68	008	0	0/0	14
11	0	0	68	011	0	0/0	8
12	0	0	68	011	0	0/0	10
13	0	0	68	007	0	0/0	9
14	0	0	70	002	0	0/0	9
15	0	0	69	004	0	0/0	8
16	0	0	69	010	0	0/0	8
17	0	0	68	010	0	0/0	8
18	0	0	68	011	0	0/0	13
19	0	0	67	006	0	0/0	8
20	0	0	67	013	0	0/0	11
21	0	0	67	011	0	0/0	8
22	0	0	68	011	0	0/0	11
23	0	0	67	012	0	0/0	6
24	0	0	66	013	0	0/0	12
25	8	0	66	016	0	0/0	4
26	0	0	66	018	0	0/0	6
27	0	0	66	009	0	0/0	29
28	0	0	66	004	0	0/0	15
29	0	0	66	012	0	0/0	17
30	0	0	66	001	0	0/0	7

mgst - filam. disappearance .
‡

The beginning of the minimum phase is confirmed. On 2800 Mhz, a flux of $66 \cdot 10^{-22} \text{w.m}^{-2} \text{hz}^{-1}$ is a normal minimum value similar at the preceding minimum.

- R'_{im} : provisional International monthly Sunspot-Number from the S.I.D.C.
 R'_1 : provisional International daily Sunspot-Numbers from the S.I.D.C.
 PPSI : Prompt Photometric Sunspot Index from the S.I.D.C. in 10^{-5}w.m^{-2}
 Quantity to subtract at the mean solar constant, due to the presence of the sunspots .
 2800 : 2800 Mhz solar flux from the Ursigrams (origin: Herzberg Institute Ottawa)
 COS : thousands of cosmic rays counts from the Ursigrams
 XFI : X-flare Index from the S.I.D.C. on the base of the Ursigrams . The sum of number of class D-flares + 10 x class M-flares of significant X-ray flux + 100 x X-flares with important X-ray flux .
 XI : X-flare Index from the Ursigrams (number of M-flares/number of X-flares)
 A_k : geomagnetic Index of Wingst station from the Ursigrams (Ampli. fluct. in $2nT$).
 sid : Sudden ionospheric disturbance ; ssc : sudden storm commencement
 sfe : solar flare effect ; // : two ribbons flare ; P : proton flare
 mst : magnetic storm ; II : radio- outburst ; pca : polar cap absorption
 aur : aurorae ; 1b , 2b ... : flare of class 1 or 2 (bright) .

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

PROVISOIRES

PROVISIONAL

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

JUIN 1986

DATE	UT	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	NOMB REL ZONE CENTRALE	PPSI 10-6 WM-2	QUAL	OBS
2	1015	0	0	0	0	0.	1	VI
4	0538	0	0	0	0	0.	1	HB
5	0924	0	0	0	0	0.	3	VI
8	0920	0	0	0	0	0.	3	CG
9	0731	0	0	0	0	0.	4	VI
10	0931	0	0	0	0	0.	4	VI
11	0710	0	0	0	0	0.	1	VI
12	0751	0	0	0	0	0.	2	VI
13	0637	0	0	0	0	0.	3	HB
14	1315	0	0	0	0	0.	4	AK
16	0900	0	0	0	0	0.	4	AK
17	0623	0	0	0	0	0.	2	HB
18	0741	0	0	0	0	0.	2	HB
19	0717	0	0	0	0	0.	1	VI
20	0833	0	0	0	0	0.	3	VI
21	1210	0	0	0	0	0.	3	CG
22	0737	0	0	0	0	0.	3	ST
23	0842	0	0	0	0	0.	2	VI
24	0759	0	0	0	0	0.	1	VI
25	0745	0	0	0	0	0.	4	AK
26	0807	0	0	0	0	0.	4	VI
27	0626	0	0	0	0	0.	4	HB
28	0935	0	0	0	0	0.	4	CG
29	0803	0	0	0	0	0.	4	FC
30	0631	0	0	0	0	0.	4	HB

LE SOLEIL A ETE OBSERVE 25 JOURS SUR 30 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE .0

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NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* = K*U FOR 1986 JUNE

K* = .806 (*)

1	***	7	***	13	0	19	0	25	0
2	0	8	0	14	0	20	0	26	0
3	***	9	0	15	***	21	0	27	0
4	0	10	0	16	0	22	0	28	0
5	0	11	0	17	0	23	0	29	0
6	***	12	0	18	0	24	0	30	0
								31	***

THE SUN WAS OBSERVED 25 DAYS ON 30 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 0

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1986 JUNE
 E AND F BRUNNER'S TYPE GROUPS

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

NONE

PROBABLE RETURN OF MAJOR GROUPS FOR 1986 JULY

NO	NEW EAST LIMB	NEW CMP	NEW WEST LIMB
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NONE