

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SCLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

PROVISOIRES

PROVISIONAL

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

JUILLET 1966

DATE	UT	NOMERE DE GROUPES	NOMERE DE TACHES	NOMERE DE WOLF	NOMB REL ZONE CENTRALE	FPSI 10-6 WM-2	QUAL	OBS
1	1146	0	0	0	0	0.	2	VI
2	0830	0	0	0	0	0.	1	HB
3	0810	0	0	0	0	0.	4	HB
4	0609	0	0	0	0	0.	3	HB
5	0945	1	9	19	0	211.	1	CG
7	0526	2	9	29	0	135.	2	HE
8	0713	2	4	24	0	222.	2	HB
9	0850	1	7	17	0	311.	3	ST
10	0757	2	11	31	16	413.	2	HB
11	0934	2	11	31	16	354.	1	HB
12	0758	2	8	28	16	377.	2	ST
14	0654	1	5	15	0	255.	2	HB
15	1116	3	5	35	13	18.	2	ST
16	0928	2	3	23	0	9.	3	ST
17	0731	2	3	23	0	7.	2	HE
18	0611	1	1	11	0	3.	2	HB
20	0633	1	1	11	11	4.	3	HB
21	1210	1	1	11	11	4.	3	HB
22	0923	1	2	12	12	4.	1	ST
23	0957	1	3	13	13	4.	2	ST
24	0756	1	2	12	12	3.	1	ST
26	1334	0	0	0	0	0.	2	HB
27	0842	0	0	0	0	0.	1	ST
28	0723	1	1	11	0	65.	2	ST
29	0602	1	5	15	0	109.	2	HB
30	0721	1	5	15	0	190.	2	HB
31	0520	1	3	13	13	248.	2	HB

LE SOLEIL A ETE OBSERVE 27 JOURS SUR 31 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 14.8

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S.I.D.C. SUMMARY OF URSIGRAMS
1986 JULY $R_{im}^1 = 17.6$

Date	R_1	PPSI	2800	COS	XFI	XI	A_k	
1	0	6	67	1012	0	0/0	10	
2	0	0	66	5	0	0/0	16	
3	10	0	67	7	0	0/0	10	
4	14	3	67	13	0	0/0	11	
5	18	10	69	11	1	0/0	10	
6	29	15	72	10	5	0/0	6	
7	29	18	70	13	2	0/0	6	
8	29	19	69	12	2	0/0	8	
9	17	27	70	9	0	0/0	8	
10	33	33	73	14	5	0/0	10	Ten cm flares.
11	35	41	72	14	3	0/0	6	X-fl. - Coron.mass eject.
12	36	32	71	12	4	0/0	8	Slow X-fl.(2x)
13	25	20	72	9	4	0/0	8	Slow X-fl. -Coron.mass eject.
14	16	22	72	8	0	0/0	4	Slow X-fl.
15	28	18	72	11	0	0/0	6	
16	23	1	72	3	0	0/0	8	
17	33	5	73	11	0	0/0	12	
18	14	8	72	12	0	0/0	8	
19	12	5	71	10	1	0/0	6	
20	18	5	71	9	1	0/0	5	
21	21	5	70	3	0	0/0	10	
22	26	5	71	10	0	0/0	8	
23	14	0	69	11	0	0/0	6	
24	0	0	69	12	0	0/0	15	SSC - mgst.
25	0	0	69	3	0	0/0	20	
26	0	0	69	8	0	0/0	21	
27	10	0	69	6	0	0/0	16	
28	12	6	70	8	6	0/0	9	
29	16	23	72	8	6	0/0	20	
30	18	42	71	4	4	0/0	14	
31	17	45						

From 3 to 8, first sunspot group of the new cycle (+26°). Slight recurrence of the activity.
One group of the new cycle for eight groups of the old cycle.

- R_{im}^1 : provisional International monthly Sunspot-Number from the S.I.D.C.
- R_1^1 : 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 C-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 ribbon 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).

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* = K*U FOR 1986					JULY				
K* = .912 (*)									
1	0	7	26	13	***	19	***	25	***
2	0	8	21	14	13	20	10	26	0
3	0	9	15	15	31	21	10	27	0
4	0	10	20	16	20	22	10	28	10
5	***	11	28	17	20	23	11	29	13
6	***	12	25	18	10	24	10	30	13
								31	11

THE SUN WAS OBSERVED 26 DAYS ON 31 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 12

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

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

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

NONE

PROBABLE RETURN OF MAJOR GROUPS FOR 1986 AUGUST
 NEW EAST LIMB NEW CMP NEW WEST LIMB

NONE