



## Provisional Sunspot - Numbers for July 1985

Dependent on observations at Locarno Specola Solare,  
 complemented by an international network and  
 determined at the Observatoire Royal de Belgique.  
 Thirty nine coop. stations on Aug. 1st, 1000 UT

Day	R <sub>I</sub>	Day	R <sub>I</sub>
1	21	16	9
2	27	17	11
3	30	18	11
4	32	19	11
5	38	20	11
6	43	21	10
7	71	22	10
8	67	23	18
9	85	24	12
10	82	25	10
11	61	26	13
12	45	27	12
13	25	28	36
14	9	29	51
15	8	30	46
		31	40

MEAN = 30.8

Predictions of the smoothed  
 monthly Sunspot - Numbers

Classical Method		S.I.D.C. Adjusted Values	
1985 Aug. 12	1985 Nov. 8	1985 Aug. 7	1985 Nov. 0 (+3 to-3)
Sep. 11	Dec. 7	Sep. 4	Dec. 0 (+1 to-5)
Oct. 9	1986 Jan. 6	Oct. 1	1986 Jan. 0 (0 to-6)

Precision on the sixth predicted value : ± 3

Classical estimated smoothed value for 1986 April :  $3 \pm 4$   
 Forecasted values are evaluated on the basis of the latest  
 monthly smoothed value ( 1985 January ) :  $20.5 \pm 5 \%$

Brussels, August 1st, 1985

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S.I.D.C. SUMMARY OF URSIGRAMS  
1985 JULY  $R'_{im} = 30.8$

Date	$R'_i$	PPSI	2800	COS	XFI	XI	$A_k$	
1	21	17	74	1024	4	0/0	17	
2	27	28	82	18	12	1/0	5	2b -II - 10cm
3	30	48	79	17	1	0/0	10	
4	32	71	78	32	4	0/0	35	mgst
5	38	62	81	35	5	0/0	18	
6	43	67	85	34	5	0/0	22	
7	71	125	95	33	4	0/0	20	
8	67	108	95	35	9	0/0	18	
9	85	112	101	34	18	1/0	9	2b -II - P - pca
10	82	104	99	23	11	0/0	11	
11	61	71	94	19	8	0/0	14	mgst
12	45	49	90	47	3	0/0	38	
13	25	15	83	55	7	0/0	23	
14	9	5	74	47	0	0/0	16	
15	8	0	71	40	.	..	8	
16	9	3	70	30	0	0/0	6	
17	11	7	70	25	0	0/0	22	
18	11	13	70	29	0	0/0	18	
19	11	15	69	25	0	0/0	10	
20	11	16	69	23	0	0/0	12	
21	10	3	69	24	1	0/0	6	
22	10	4	69	23	0	0/0	6	
23	18	3	69	31	0	0/0	18	SSC
24	12	2	69	25	0	0/0	14	
25	10	2	73	19	0	0/0	14	
26	13	0	75	16	0	0/0	19	
27	12	2	77	21	1	0/0	16	
28	36	8	79	21	3	0/0	15	
29	51	23	81	2	5	0/0	7	
30	46	22	81	22	4	0/0	12	
31	40	28						

- $R'_{im}$  : provisional International monthly Sunspot-Number from the S.I.D.C.  
 $R'_i$  : provisional International daily Sunspot-Numbers from the S.I.D.C.  
 PPSI : Prompt Photometric Sunspot Index from the S.I.D.C. in  $10^{-5} \text{ W.m}^{-2}$   
 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 .  
 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 or2 (bright) .

## OBSERVATOIRE ROYAL DE BELGIQUE

## DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

## NOMBRES RELATIFS DE WOLF JOURNALIERS

PROVISOIRES

PROVISIONAL

## SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

JUILLET 1985

DATE	UT	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	NOMB REL ZONE CENTRALE	PPSI 10-6 WM-2	QUAL	OBS
1	0836	2	5	25	0	202.	2	VI
2	0743	2	10	30	0	318.	2	VI
3	1207	2	14	34	17	451.	4	VI
4	0617	2	13	33	16	535.	4	VI
5	0724	2	22	42	42	606.	1	VI
6	1045	3	34	64	53	702.	3	CG
7	0830	4	53	93	69	1239.	4	AK
8	0705	3	44	74	63	929.	2	HB
9	0951	4	46	86	13	980.	3	VI
10	0458	4	33	73	16	959.	2	HB
11	0747	3	29	59	19	795.	3	VI
12	0639	3	20	50	0	504.	3	VI
13	0618	2	9	29	0	225.	2	HB
14	0527	1	1	11	0	93.	1	HB
15	1133	0	0	0	0	0.	4	HB
16	0515	1	1	11	0	44.	2	HB
17	0516	1	1	11	0	97.	5	HB
18	0505	1	1	11	0	167.	3	HB
19	0736	1	2	12	0	237.	2	HB
20	0859	1	2	12	12	291.	1	HB
21	0552	1	1	11	11	24.	4	HB
23	1040	2	2	22	11	38.	2	HB
24	0540	1	1	11	0	18.	3	HB
25	0515	1	1	11	11	22.	3	HB
26	1047	0	0	0	0	0.	1	HB
27	0536	1	1	11	0	38.	2	HB
29	0802	5	13	63	0	343.	2	HB
31	0544	2	16	36	25	242.	2	HB

LE SOLEIL A ETE OBSERVE 28 JOURS SUR 31 POSSIBLES  
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 33.0

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NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* $\bar{K}$ *U FOR 1985						JUNE					
K* = .806 (*)											
1	D	7	25	13	40	19	0	25	12		
2	C	8	27	14	31	20	0	26	0		
3	B	9	***	15	45	21	0	27	0		
4	20	10	54	16	17	22	8	28	***		
5	25	11	59	17	17	23	10	29	***		
6	35	12	45	18	18	24	12	30	11		
								31	***		

THE SUN WAS OBSERVED 27 DAYS ON 30 POSSIBLE  
THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 19

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1985 JUNE  
E AND F BRUNNER'S TYPE GROUPS

UCCLE EAST LIMB				DATE AND TYPE			WEST LIMB	
NO	DATE	1ST OBS	CMP	LAST OBS	TYPE	LAST OBS	DATE	
NONE								

PROBABLE RETURN OF MAJOR GROUPS FOR 1985 JULY  
NO NEW EAST LIMB NEW CMP NEW WEST LIMB

NONE

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* $\bar{K}$ *U FOR 1985						JULY					
K* = .912 (*)											
1	22	7	84	13	26	19	10	25	10		
2	27	8	67	14	10	20	10	26	0		
3	30	9	78	15	0	21	10	27	10		
4	30	10	66	16	10	22	***	28	***		
5	38	11	53	17	10	23	20	29	57		
6	58	12	45	18	10	24	10	30	***		
								31	32		

THE SUN WAS OBSERVED 28 DAYS ON 31 POSSIBLE  
THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 29

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1985 JULY  
E AND F BRUNNER'S TYPE GROUPS

UCCLE EAST LIMB				DATE AND TYPE			WEST LIMB	
NO	DATE	1ST OBS	CMP	LAST OBS	TYPE	LAST OBS	DATE	
8-1763	6 30.4	1	H	7 7.1		13	G	7 13.9

PROBABLE RETURN OF MAJOR GROUPS FOR 1985 AUGUST  
NO NEW EAST LIMB NEW CMP NEW WEST LIMB

8 7 27.8 8 3.6 8 10.3