



1985

No. 3

 Provisional Sunspot - Numbers for MARCH 1985
 

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

Day	R' <sub>I</sub>	Day	R' <sub>I</sub>
1	9	16	8
2	9	17	12
3	7	18	24
4	0	19	16
5	0	20	13
6	0	21	9
7	0	22	12
8	12	23	13
9	10	24	36
10	11	25	24
11	12	26	18
12	12	27	16
13	9	28	24
14	8	29	15
15	0	30	15
		31	14

MEAN = 11.9

 Predictions of the smoothed  
 monthly Sunspot - Numbers
 

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Classical Method		S.I.D.C. Adjusted Values	
1985 Apr. 24	1985 Jul. 21	1985 Apr. 24	1985 Jul. 18
May 23	Aug. 19	May 23	Aug. 16
Jun. 22	Sep. 17	Jun. 21	Sep. 12

Precision on the sixth predicted value :  $\pm 4$ 

Classical estimated smoothed value for 1985, december:  $14 \pm 4$   
 Forecasted values are evaluated on the basis of the latest  
 monthly smoothed value ( 1984 September ) :  $33.7 \pm 5\%$

Brussels, April 1st, 1985

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S.I.D.C. SUMMARY OF URSIGRAMS

1985 MARCH

$R_{im}^I = 11.9$

Date	$R_i$	PPSI	2800	COS	XFI	XI	$A_k$	
1	9	11	71	80	0	0/0	16	
2	9	0	70	70	0	0/0	23	SSC
3	7	0	70	58	0	0/0	13	
4	0	0	70	55	0	0/0	11	SSC
5	0	0	69	57	0	0/0	41	
6	0	0	69	64	0	0/0	27	MGST - SST
7	0	0	69	54	0	0/0	28	SSC
8	12	0	70	51	0	0/0	28	
9	10	0	70	69	0	0/0	6	SSC
10	11	0	58	55	0	0/0	14	
11	12	1	71	-	0	0/0	6	
12	12	5	69	58	0	0/0	10	
13	9	0	70	51	0	0/0	4	
14	8	0	70	56	0	0/0	8	
15	0	0	70	45	0	0/0	12	
16	8	0	71	52	0	0/0	15	
17	12	12	73	55	1	0/0	11	
18	24	23	75	55	1	0/0	12	
19	16	18	75	51	1	0/0	14	
20	13	0	75	56	0	0/0	5	
21	9	0	77	55	0	0/0	6	
22	12	5	76	47	0	0/0	6	
23	13	12	78	45	4	0/0	5	
24	36	17	80	50	0	0/0	8	
25	24	23	79	45	1	0/0	6	
26	18	25	77	49	0	0/0	8	
27	16	27	75	38	0	0/0	12	
28	24	33	74	41	0	0/0	13	
29	15	23	73	52	0	0/0	10	
30	15	20	72	42	1	0/0	8	
31	14	19	74	39	2	0/0	9	

The present trend gives a minimum period between 1985 december and 1987 march .

- $R_{im}^I$  : provisional International monthly Sunspot-Number from the S.I.D.C.  
 $R_i^I$  : 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 significative 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 ribbonsflare ; 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

MARS 1985

DATE	UT	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	NOMB REL ZONE CENTRALE	PPSI 10-6 WM-2	QUAL	OBS
1	0957	1	1	11	0	155.	1	VI
3	1100	0	0	0	0	0.	2	AK
5	0955	0	0	0	0	0.	3	VI
6	1230	0	0	0	0	0.	3	AK
8	0906	0	0	0	0	0.	2	HB
10	1050	0	0	0	0	0.	1	HB
11	1030	1	2	12	0	3.	1	VI
12	1505	1	5	15	0	35.	3	VI
13	1423	1	2	12	0	1.	2	VI
14	1240	1	1	11	0	1.	3	AK
15	0822	0	0	0	0	0.	1	VI
18	0808	2	11	31	16	208.	2	HB
19	0738	1	5	15	15	4.	1	VI
20	1349	0	0	0	0	0.	1	VI
21	1324	0	0	0	0	0.	2	VI
22	1241	1	1	11	0	38.	2	HB
24	1257	1	9	19	0	166.	1	HB
25	0835	1	11	21	0	242.	2	VI
26	1147	1	10	20	0	264.	1	HB
27	1426	1	14	24	24	318.	1	VI
28	1000	2	15	35	24	333.	3	HB
29	1540	1	6	16	16	317.	2	AK
31	1045	1	4	14	0	233.	1	AK

LE SOLEIL A ETE OBSERVE 23 JOURS SUR 31 POSSIBLES  
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 11.6

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NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* = K*U FOR 1985				MARCH					
K* = .900 (*)									
1	9	7	***	13	10	19	13	25	18
2	***	8	0	14	9	20	0	26	17
3	0	9	***	15	0	21	0	27	21
4	***	10	0	16	***	22	9	28	31
5	0	11	10	17	***	23	***	29	14
6	0	12	13	18	27	24	17	30	***
								31	12

THE SUN WAS OBSERVED 23 DAYS ON 31 POSSIBLE  
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 10

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

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

UCCLE EAST LIMB		DATE AND TYPE		WEST LIMB	
NO	DATE	IST OBS	CMF	LAST OBS	DATE
NONE					

PROBABLE RETURN OF MAJOR GROUPS FOR 1985

APRIL		
NO	NEW EAST LIMB	NEW WEST LIMB
NONE		