



1985 , No. 5

Provisional Sunspot - Numbers for MAY 1985

 Dependent on observations at Locarno Specola Solare,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Forty one coop. stations on 1985 June 1 st , 1000 UT

Day	R _i '	Day	R _i '
1	19	16	31
2	15	17	38
3	14	18	41
4	18	19	40
5	16	20	37
6	14	21	36
7	32	22	34
8	44	23	32
9	56	24	25
10	49	25	19
11	49	26	11
12	33	27	12
13	32	28	12
14	32	29	10
15	32	30	8
		31	8

MEAN = 27.4

Predictions of the smoothed
 monthly Sunspot - Numbers

Classical Method		S.I.D.C. Adjusted Values	
1985 Jun. 15	1985 Sep. 12	1985 Jun. 15	1985 Sep. 6
Jul. 14	Oct. 11	Jul. 12	Oct. 4
Aug. 13	Nov. 10	Aug. 9	Nov. 2

Precision on the sixth predicted value : ± 5

Classical estimated smoothed value for 1986 February : 6 ± 2
 Forecasted values are evaluated on the basis of the latest
 monthly smoothed value (1984 November) : $24.7 \pm 5 \%$

Brussels, June 1st , 1985

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S.I.D.C. SUMMARY OF URSIGRAMS
1985 MAY $R'_{im} = 27.4$

Date	R'_i	PPSI	2800	COS	XFI	XI	A_k	
1	19	11	81	70	9	0/0	12	
2	15	3	75	66	12	1/0	23	1b - sid -ssc - 10cm b.
3	14	2	71	58	0	0/0	8	
4	18	3	70	51	0	0/0	10	
5	16	0	70	49	0	0/0	10	
6	14	0	74	48	1	0/0	14	
7	32	5	78	43	5	0/0	10	
8	44	14	80	40	5	0/0	12	
9	56	38	88	37	6	0/0	9	
10	49	59	90	40	3	0/0	7	
11	49	104	88	38	1	0/0	6	
12	33	54	90	36	9	0/0	10	
13	32	106	90	31	20	1/0	17	
14	32	39	90	32	6	0/0	12	
15	32	43	91	39	1	0/0	15	
16	31	36	93	35	2	0/0	16	
17	38	36	90	43	2	0/0	10	
18	41	37	91	43	10	0/0	12	
19	40	36	88	34	2	0/0	12	
20	37	45	85	32	2	0/0	8	
21	36	48	83	33	7	0/0	8	
22	34	44	82	26	4	0/0	5	
23	32	21	78	25	3	0/0	4	
24	25	19	76	32	3	0/0	7	
25	19	10	75	38	1	0/0	9	
26	11	5	74	30	0	0/0	14	
27	12	0	73	25	0	0/0	8	
28	12	0	71	27	0	0/0	7	
29	10	0	71	31	0	0/0	6	
30	8	0	70	27	0	0/0	4	
31	8	0	68	25	0	0/0	12	

The trend for the beginning of the minimum phase after 1985 november seems to be confirmed

- 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} 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 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

MAI 1985

DATE	UT	NOMBRE DE GROUPE	NOMBRE DE TACHES	NOMBRE DE WOLF	NOMB REL ZONE CENTRALE	PPSI 10-6 WM-2	QUAL	OBS
1	0840	1	9	19	0	89.	3	AK
2	0637	1	5	15	0	43.	2	VI
6	0613	1	4	14	14	3.	2	HB
7	0959	2	4	24	12	27.	1	VI
8	0931	3	16	46	31	139.	2	VI
12	1000	1	8	18	18	303.	1	CG
13	0514	1	14	24	24	326.	2	HB
14	1449	1	19	29	29	323.	2	VI
15	0750	1	13	23	23	304.	2	HB
16	0815	2	22	42	0	342.	4	CG
17	0849	3	6	36	0	371.	3	VI
18	0930	3	14	44	0	431.	4	CG
19	0934	3	9	39	11	493.	1	HB
20	1405	3	12	42	15	561.	3	VI
21	1249	2	13	33	33	620.	3	PC
22	0813	3	10	40	40	638.	1	VI
24	0711	2	3	23	12	253.	1	VI
25	1140	2	2	22	11	169.	2	CG
26	0910	1	1	11	0	77.	4	CG
27	0727	1	1	11	0	2.	4	PC
28	0815	0	0	0	0	0.	3	AK
29	0616	0	0	0	0	0.	3	VI
30	0655	0	0	0	0	0.	3	VI
31	0626	0	0	0	0	0.	3	HB

LE SOLEIL A ETE OBSERVE 24 JOURS SUR 31 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 23.1

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NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* = K*U FOR 1985 MAY

K* = .886 (*)

1	16	7	21	13	21	19	34	25	19
2	13	8	40	14	25	20	37	26	9
3	***	9	***	15	20	21	29	27	9
4	***	10	***	16	37	22	35	28	0
5	***	11	***	17	31	23	***	29	0
6	12	12	15	18	38	24	20	30	0
								31	0

THE SUN WAS OBSERVED 24 DAYS ON 31 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 20

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

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

UCCLE NO	EAST LIMB DATE	DATE	AND TYPE	WEST LIMB DATE
NO	DATE	IST OBS	COMP LAST OBS	DATE
2-1761	4 19.5	21 B	4 26.2 2 G	5 3.0

PROBABLE RETURN OF MAJOR GROUPS FOR 1985 JUNE

NO	NEW EAST LIMB	NEW COMP	NEW WEST LIMB
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NONE