



1986 , No. 5

Provisional Sunspot - Numbers for MAY 1986

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

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

MEAN = 13 .1

 Predictions of the smoothed
 monthly Sunspot - Numbers

Classical Method		S.I.D.C. Adjusted Values	
1986 Jun. 10	1986 Sep. 7	1986 Jun. 1	1986 Sep. 0 (+3 to -3)
Jul. 9	Oct. 6	Jul. 1	Oct. 0 (+3 to -3)
Aug. 8	Nov. 5	Aug. 1	Nov. 0 (+2 to -4)

Precision on the sixth predicted value : ± 3 Classical estimated smoothed value for 1987 February : 3 (± 4)Forecasted values are evaluated on the basis of the latest
 monthly smoothed value (1985 November) : 17 .0 $\pm 5\%$

Brussels, June 1st , 1986

A. Koeckelenbergh.

Rmk. If you do not receive the SB n°4 , please write or call promptly .
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S.I.D.C. SUMMARY OF URSIGRAMS

1986

MAY

 $R'_{im} = 13.1$

Date	R'_1	PPSI	2800	COS	XFI	XI	A_k	
1	15	4	71	1008	2	0/0	8	
2	23	4	73	997	3	0/0	34	SSC - mgst
3	12	1	73	998	3	0/0	24	mgst
4	9	0	70	997	0	1/0	17	X1 - p - sid
5	10	0	70	996	0	0/0	16	mgst
6	0	0	69	1000	0	0/0	62	mgst
7	0	0	69	998	0	0/0	18	
8	7	0	68	999	0	0/0	10	
9	0	0	69	1001	0	0/0	8	
10	0	0	70	1001	0	0/0	8	
11	0	0	70	994	0	0/0	8	
12	0	0	69	996	0	0/0	10	
13	0	0	70	998	0	0/0	5	
14	0	0	70	1002	0	0/0	5	
15	9	3	71	1000	0	0/0	4	
16	11	5	73	1000	1	0/0	10	
17	13	9	74	998	0	0/0	15	
18	22	13	77	997	0	0/0	6	
19	27	16	77	994	2	0/0	12	
20	23	4	78	994	4	0/0	7	
21	30	5	77	1004	1	0/0	10	
22	27	5	77	1006	1	0/0	5	
23	20	5	77	999	0	0/0	11	
24	24	14	78	996	0	0/0	8	
25	22	15	79	998	6	0/0	14	
26	25	14	75	995	6	0/0	12	
27	18	11	73	993	0	0/0	12	
28	18	3	72	1003	0	0/0	5	
29	17	1	72	1001	0	0/0	6	
30	13	1	71	995	0	0/0	10	
31	10	0	

May be a predicted slight growth of the solar activity for the beginning of 1987 .

- 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 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 SCLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

PROVISOIRES

PROVISIONAL

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

MAI 1986

DATE	UT	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	NOMB REL ZONE CENTRALE	PPSI 10-6 WM-2	QUAL	CBS
1	0637	1	7	17	0	30.	3	HB
2	0712	2	7	27	0	64.	3	HB
3	0945	1	2	12	0	23.	2	CG
4	0845	0	0	0	0	0.	4	CG
5	0723	0	0	0	0	0.	2	HB
6	1108	0	0	0	0	0.	1	HB
7	0649	0	0	0	0	0.	3	VI
8	1000	0	0	0	0	0.	3	AK
9	0509	0	0	0	0	0.	2	HB
11	0736	0	0	0	0	0.	3	HB
12	0807	0	0	0	0	0.	1	VI
13	0910	0	0	0	0	0.	2	HB
14	0808	0	0	0	0	0.	2	HB
15	1128	1	1	11	0	62.	2	HB
16	0523	1	2	12	0	93.	3	HB
17	0630	1	2	12	0	173.	2	HB
18	1430	2	11	31	0	244.	3	CG
19	0710	2	8	28	14	317.	2	PC
20	0918	2	7	27	11	44.	3	HB
21	0640	2	9	29	11	58.	3	HB
22	0633	2	6	26	11	35.	2	HB
23	0658	1	10	20	20	58.	2	HB
24	0900	1	34	44	44	244.	2	CG
25	0940	1	17	27	27	245.	4	AK
26	0805	2	25	45	45	232.	4	AK
27	0830	1	15	25	0	188.	3	AK
28	1035	2	5	25	12	38.	3	AK
29	0548	2	3	23	0	9.	1	HB
30	0614	1	1	11	0	2.	3	HB
31	0820	1	2	12	0	1.	1	CG

LE SOLEIL A ETE OBSERVE 30 JOURS SUR 31 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 15.5

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NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U*=K*U FOR 1986				MAY					
				K*= .886 (*)					
1	15	7	0	13	0	19	24	25	23
2	23	8	0	14	0	20	23	26	39
3	10	9	0	15	9	21	25	27	22
4	0	10	***	16	10	22	23	28	22
5	0	11	0	17	10	23	17	29	20
6	0	12	0	18	27	24	38	30	9
								31	10

THE SUN WAS OBSERVED 30 DAYS ON 31 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 13

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

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

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

NONE

PROBABLE RETURN OF MAJOR GROUPS FOR 1986 JUNE
 NO NEW EAST LIMB NEW CMP NEW WEST LIMB

NONE