



SUNSPOT BULLETIN
Supported by UNESCO and ICSU through the FAGS.

1985 , No. 10

Provisional Sunspot - Numbers for OCTOBER 1985

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

Day	R _I	Day	R _I
1	0	16	25
2	0	17	19
3	0	18	20
4	0	19	31
5	0	20	46
6	0	21	50
7	0	22	72
8	0	23	67
9	0	24	63
10	0	25	55
11	0	26	38
12	0	27	25
13	11	28	14
14	13	29	11
15	15	30	0
		31	0

MEAN = 18.5

Predictions of the smoothed
monthly Sunspot - Numbers

Classical Method		S.I.D.C. Adjusted Values	
1985 Nov. 10	1986 Feb. 7	1985 Nov. 0(+2 to-4)	1986 Feb. 0
Dec. 9	Mar. 6	Dec. 0(+1 to-5)	Mar. 0
1986 Jan. 8	Apr. 5	1986 Jan. 0(0 to-6)	Apr. 0

Precision on the sixth predicted value : ± 3

Classical estimated smoothed value for 1986 July 2 ± 4
Forecasted values are evaluated on the basis of the latest provisional
monthly smoothed value (1985 April) : $18.3 \pm 5\%$

Brussels, November 1st, 1985

A. Koeckelenbergh.

Reproduction permitted if the source is mentioned.

Ed. Resp. Dr. André Koeckelenbergh, 3, avenue Circulaire, B-1180 BRUXELLES, BELGIUM
TELEX : 21565 obsbel - Tél. : (02) 375 24 84 EXT 611

S.I.D.C. SUMMARY OF URSIGRAMS
 1985 OCTOBER $R'_{im} = 18.5$

Date	R'_1	PPSI	2800	CDS	XFI	XI	A_k	
1	0	0	68				4	
2	0	0	67				8	
3	0	0	69				10	
4	0	0	68				12	mgst
5	6	0	67				52	
6	0	0	66				31	
7	0	0	66	1021	0	0/0	32	
8	0	0	66	19	0	0/0	21	
9	0	0	66	20	0	0/0	8	
10	0	0	67	12	0	0/0	8	
11	0	0	68	12	0	0/0	19	
12	0	0	67	19	0	0/0	14	
13	11	0	67	22	0	0/0	24	
14	13	1	70	20	1	0/0	9	
15	15	1	72	17	0	0/0	16	
16	25	5	74	17	2	0/0	18	
17	19	9	76	18	0	0/0	16	
18	20	13	76	17	1	0/0	25	
19	31	26	78	20	1	0/0	12	
20	46	36	80	21	1	0/0	8	
21	50	44	86	22	4	0/0	17	
22	72	78	95	19	12	0/0	16	
23	67	81	95	19	7	0/0	16	
24	63	56	94	19	18	0/0	10	
25	55	38	92	18	2	0/0	10	
26	38	16	85	13	12	1/0	5	1b - sid
27	25	9	80	10	8	0/0	5	
28	14	4	78	7	1	0/0	5	
29	11	0	75		0	0/0	9	
30	0	0	72	15	0	0/0	4	
31	0	0	71	14	0	0/0	5	ssc

- 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)
 CDS : 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) .

Oegenlase!

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

OCTOBRE 1985

DATE	TU	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	PPSI 10-6 WM-2	QUALITE	OBSER
1	850	0	0	0	0.	4	AK
2	751	0	0	0	0.	1	VI
3	1031	0	0	0	0.	1	VI
4	845	0	0	0	0.	2	VI
5	1315	0	0	0	0.	3	CG
6	925	0	0	0	0.	3	AK
7	944	0	0	0	0.	2	VI
8	734	0	0	0	0.	3	HB
9	1230	0	0	0	0.	4	AK
10	1100	0	0	0	0.	3	HB
11	1220	0	0	0	0.	2	HB
12	1000	0	0	0	0.	3	CG
13	945	0	0	0	0.	4	AK
14	756	1	2	12	4.	3	VI
19	1010	2	9	29	295.	3	CG
20	1025	2	32	62	420.	4	AK
21	752	3	31	61	446.	3	VI
22	1252	3	60	90	819.	3	VI
23	822	3	51	81	800.	2	VI
24	1337	3	41	71	358.	4	VI
25	935	3	30	60	292.	4	VI
26	1450	3	24	54	161.	3	CG
29	445	0	0	0	0.	3	AK

LE SOLEIL A ETE OBSERVE 23 JOURS SUR 31 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 22.6
EDITEUR RESPONSABLE
A. KOECKELENERGH
OBSERVATOIRE ROYAL DE BELGIQUE
UCCLE BELGIUM

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* = K*U FOR 1985				OCTOBER					
K* = .916 (*)									
1	0	7	0	13	0	19	27	25	55
2	0	8	0	14	12	20	57	26	49
3	0	9	0	15	***	21	56	27	***
4	0	10	0	16	***	22	82	28	***
5	0	11	0	17	***	23	74	29	0
6	0	12	0	18	***	24	65	30	***
								31	***

THE SUN WAS OBSERVED 23 DAYS ON 31 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 20.7

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

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

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

PROBABLE RETURN OF MAJOR GROUPS FOR 1985 NOVEMBER

NO	NEW EAST LIMB	NEW CMP	NEW WEST LIMB
NONE			