

SUNSPOT - BULLETIN

1982 , No. 10

Provisional Sunspot - Numbers for OCTOBER 1982

Dependent on observations at Locarno Specola Solare ,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Twenty five cooperating stations on November 2 at 10 UT

Day	R _I	Day	R _I
1	132	16	65
2	164	17	54
3	143	18	39
4	120	19	56
5	109	20	70
6	55	21	91
7	54	22	100
8	55	23	128
9	54	24	145
10	88	25	134
11	87	26	135
12	92	27	131
13	98	28	103
14	88	29	94
15	71	30	96
		31	73

MEAN = 94.3

Predictions of the smoothed
 monthly Sunspot - Numbers

Classical Method	SIDC adjusted values
1982 Nov. 106	1983 Feb. 99
1982 Dec. 103	1982 Nov. 107
1983 Jan. 101	1983 Jan. 102
	1983 Feb. 100
	1983 Mar. 98
	1983 Apr. 96

Brussels , November 2 , 1982

A . Koeckelenbergh .

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S.I.D.C. SUMMARY OF URSIGRAMS

1982 OCTOBRE $R_{im}^i = 94.3$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R_I^i	132	164	143	120	109	55	54	55	54	88	87	92	98	88	71
PPSI	179	186	126	84	50	21	26	46	32	39	52	53	54	48	39
10,7cm	205	218	195	184	164	152	140	137	138	135	138	137	145	141	135
XFI	13	23	13	9	9	21	8	4	4	4	10	7	9	15	9
XI	0/0	0/0	0/0	0/0	0/0	1/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
A_K	24	21	12	8	10	18	25	24	6	21	19	14	33	24	10

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
R_I^i	65	54	39	56	70	91	100	128	145	134	135	131	103	94	96	73
PPSI	37	39	34	37	42	51	90	117	127	150	138	122	104	92	80	69
10,7cm	131	131	134	138	149	163	-	182	193	202	196	191	186	177	169	168
XFI	6	5	3	7	3	9	-	42	43	36	22	45	16	21	8	4
XI	0/0	0/0	0/0	0/0	0/0	0/0	-	1/0	1/0	1/0	0/0	2/0	0/0	0/0	0/0	0/0
A_K	14	21	21	21	12	11	-	7	5	15	25	18	10	27	27	31

ssc

ssc 1b
sid

ssc

- R_{im}^i : provisional International monthly Sunspot-Number from the S.I.D.C.
- R_I^i : provisional International daily Sunspot-Number 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 sunspots.
- 10,7 cm : 2800 Mhz solar flux from the ursigrams, in $10^{-22} W.m^{-2} Hz^{-1}$
- XFI : X-flare Index from the S.I.D.C. on the base of the ursigrams. XFI = number of C class flares $\times 10 +$ nb of M $\times 10 +$ nb of X $\times 100$. (C: not assoc. with signif. X rays ; M assoc with signif. X rays ; X assoc with import. X flux).
- XI : X-flare index from ursigrams (nb. of M-flares / nb. of X)
- A_K : Geomagnetic Index of Wingst from ursigrams.

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

OCTOBRE 1982

DATE	TU	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	PPSI 10-6 WM-2	QUALITE	OBSER
1	1320	6	49	109	1666.	1	GE
2	1015	7	120	190	1464.	2	CG
4	0943	7	36	106	567.	2	GE
13	1502	6	56	116	736.	2	AK
14	1306	6	12	72	430.	1	GE
16	1040	5	19	69	377.	2	CG
17	0935	3	6	36	351.	2	GE
18	0800	2	4	24	354.	1	HB
19	1100	5	14	64	424.	1	HB
20	0753	5	15	65	421.	2	GE
21	0920	7	27	97	507.	3	HB
22	0755	6	9	69	899.	1	GE
24	0855	7	103	173	1237.	3	AK
27	1002	5	48	98	1175.	2	HB
28	1045	5	55	105	1040.	3	AK
31	0910	4	38	78	689.	3	AK

LE SOLEIL A ETE OBSERVE 16 JOURS SUR 31 POSSIBLES

LE NOMBRE RELATIF DE WOLF MOYEN EST DE 91.9

EDITEUR RESPONSABLE

A. KOECKELENBERGH

OBSERVATOIRE ROYAL DE BELGIQUE

UCCLE BELGIUM

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U' = K'U FOR 1982 OCTOBER

K' = .946 (*)

1	103	7	***	13	109	19	60	25	***
2	179	8	***	14	68	20	61	26	***
3	***	9	***	15	***	21	91	27	92
4	100	10	***	16	65	22	65	28	99
5	***	11	***	17	34	23	***	29	***
6	***	12	***	18	22	24	163	30	***
								31	73

THE SUN WAS OBSERVED 16 DAYS ON 31 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 86

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1982 OCTOBER
 E AND F BRUNNER'S TYPE GROUPS

UCCLE NO	EAST LIMB DATE	DATE	AND TYPE	WEST LIMB DATE
		IST OBS	OMP	LAST OBS
12-1727	10 18.3	19 G	10 25.0	28 H 10 31.8

PROBABLE RETURN OF MAJOR GROUPS FOR 1982 NOVEMBER
 NO NEW EAST LIMB NEW CMP NEW WEST LIMB

NONE