

Sunspot Index  Date Center

SUNSPOT - BULLETIN

1982 , No. 9

Provisional Sunspot - Numbers for SEPTEMBER 1982

Dependent on observations at Locarno Specola Solare ,
complemented by an international network and
determined at the Observatoire Royal de Belgique.
Twenty four cooperating stations on Oct ,1st ,1130 UT

Day	R _i	Day	R _i
1	115	16	133
2	124	17	127
3	146	18	107
4	176	19	117
5	160	20	104
6	141	21	102
7	117	22	95
8	115	23	97
9	100	24	109
10	81	25	118
11	86	26	138
12	78	27	133
13	81	28	140
14	104	29	144
15	129	30	160

Mean = 119 .2

Predictions of the smoothed
monthly Sunspot - Numbers

Classical Method		SIDC Adjusted Values	
1982 Oct 112	1983 Jan 105	1982 Oct 117	1983 Jan 111
Nov 109	Feb 103	Nov 114	Feb 108
Dec 107	Mar 101	Dec 112	Mar 104

Brussels , October 1 st , 1982

A . Koeckelenbergh .

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S.I.D.C. SUMMARY OF URSIGRAMS

1982 SEPTEMBER $R_{im}^i = 119.2$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R_I^i	115	124	146	176	160	141	117	115	100	81	86	78	81	104	129
PPSI	68	75	95	126	122	124	101	98	98	80	84	82	81	62	65
10,7cm	182	169	177	188	177	169	176	176	177	163	156	152	149	146	149
XFI	21	22	13	40	13	21	15	18	18	8	14	6	10	8	22
XI	1/0	0/0	0/0	2/0	0/0	1/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	1/0
A_K	11	12	18	27	27	162	62	12	45	10	16	18	13	15	13
	P		2b	P	P	ssc	ssc		ssc						2b
						pca									

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
R_I^i	133	127	107	117	104	102	95	97	109	118	138	133	140	144	160
PPSI	94	97	96	106	102	91	65	35	29	45	85	115	151	186	208
10,7cm	146	150	142	137	146	144	145	152	166	170	186	191	196	204	202
XFI	4	3	9	13	5	3	14	5	14	6	28	14	10	19	12
XI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	1/0	0/0	0/0	0/0	1/0
A_K	12	10	29	23	21	64	120	21	23	15	61	41	12	8	30
					2b//		ssc		ssc	ssc					sid

- 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. $XFI = \text{number of C class flares} \times 10 + \text{nb of M} \times 10 + \text{nb of X} \times 100$. (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 Kingst from ursigrams.

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

SEPTEMBRE 1982

DATE	TU	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	PPSI 10-6 WM-2	QUALITE	OBSER
1	0820	10	28	128	627.	3	HB
2	0802	10	44	144	727.	2	HB
4	0757	14	75	215	1345.	3	PC
5	0910	13	48	178	1356.	3	HB
6	1044	10	43	143	1452.	2	HB
8	0910	9	37	127	1080.	3	HB
10	1015	7	16	86	888.	3	HB
11	0850	7	15	85	840.	1	HB
12	0910	6	15	75	848.	1	HB
13	1329	6	30	90	798.	2	PC
14	1250	8	43	123	430.	3	AK
15	0740	10	73	173	536.	2	AK
16	0947	9	61	151	636.	3	PC
17	1154	8	64	144	778.	2	PC
18	1010	6	59	119	934.	2	PC
19	0840	6	72	132	1016.	2	CG
20	0735	4	30	70	1033.	1	GE
22	0915	7	67	137	920.	2	AK
23	0840	9	59	149	352.	4	AK
24	0719	9	24	114	325.	1	GE
27	0840	8	51	131	1247.	2	GE
29	0909	7	73	143	2171.	2	GE
30	1435	7	130	200	1936.	2	AK

LE SOLEIL A ETE OBSERVE 23 JOURS SUR 30 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 132.9

EDITEUR RESPONSABLE

A. KOECKELENBERGH

OBSERVATOIRE ROYAL DE BELGIQUE

UCCLE BELGIUM

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U'=K*U FOR 1982 SEPTEMBER

K' = .948 (*)

1	121	7	***	13	85	19	125	25	***
2	136	8	120	14	116	20	66	26	***
3	***	9	***	15	164	21	***	27	124
4	203	10	81	16	143	22	129	28	***
5	168	11	80	17	136	23	141	29	135
6	135	12	71	18	112	24	108	30	189
								31	***

THE SUN WAS OBSERVED 23 DAYS ON 30 POSSIBLE
THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 125

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

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

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

NONE

PROBABLE RETURN OF MAJOR GROUPS FOR 1982 OCTOBER
NO NEW EAST LIMB NEW CHP NEW WEST LIMB

NONE