

Sunspot Index  Data Center

SUNSPOT - BULLETIN

1983 , No. 8

Provisional Sunspot - Numbers for AUGUST 1983

Dependent on observations at Locarno Specola Solare ,
complemented by an international network and
determined at the Observatoire Royal de Belgique.
Thirty four cooperating stations on Aug .1 ,0930 UT.

Day	R _i	Day	R _i
1	131	16	80
2	128	17	72
3	105	18	71
4	103	19	54
5	79	20	40
6	47	21	52
7	60	22	50
8	70	23	51
9	69	24	44
10	63	25	52
11	88	26	56
12	103	27	51
13	101	28	55
14	97	29	63
15	93	30	59
		31	42

MEAN = 71.9

Predictions of the smoothed
monthly Sunspot - Numbers

Classical Method		SIDC Adjusted Values	
1983 Sep 78	1983 Dec 73	1983 Sep 72	1983 Dec 69
Oct 76	1984 Jan 71	Oct 71	1984 Jan 67
Nov 74	Feb 69	Nov 70	Feb 66

Brussels , September 1, 1983

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S.I.D.C. SUMMARY OF URSIGRAMS

1983 AUGUST $r_{im} = 71.9$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R_I'	131	128	105	103	79	47	60	70	69	63	88	103	101	97	93
PPSI	97	114	112	65	55	38	30	24	19	36	48	60	71	64	63
10,7cm	147	144	141	133	133	138	138	137	139	148	147	155	144	139	129
COS	75	84	99	97	88	104	105	106	107	108	101	88	82	82	101
XFI	25	28	19	24	14	12	32	27	8	13	7	27	34	19	18
XI	1/0	2/0	1/0	1/0	1/0	0/0	2/0	2/0	0/0	0/0	0/0	0/0	2/0	1/0	1/0
A_K	7	30	24	6	5	10	21	42	12	6	8	28	24	12	14

2b 2b ssc ssc mgst ssc 2b lb Sn

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
R_I'	80	72	71	54	40	52	50	51	44	52	56	51	55	63	59	42
PPSI	41	29	18	12	12	15	6	5	3	11	14	19	22	21	23	26
10,7cm	129	124	119	115	116	112	109	108	108	102	104	102	101	104	102	
COS	105	101	96	89	92	85	86	87	83	85	88	85	77	71	86	
XFI	13	33	11	1		13	6	12	0	1	1	4	2	2	4	
XI	0/0	2/0	0/0	0/0		1/0	0/0	1/0	0/0	0/0	0/0	0/0	0/0	0/0	2/0	
A_K	7	8	2	9	11	27	15	29	24	34	23	8	12	19	18	

ln ssc 2b mgst

R_I' : provisional International Sunspot-Numbers .

PPSI : Prompt Photometric Sunspot Index in 0.00001 W/m² .

10.7 cm: 2800 MHz solar flux from the ursigrams .

COS : Thousands of cosmic rays counts from the ursigrams .

XFI: X-flare Index from the SIDC .

XI : X-flare Index from the ursigrams .

A_K : Geomagnetic Index from the Meudon ursigrams .

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

AOUT 1983

DATE	TU	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	PPSI 10-6 WM-2	QUALITE	OBSER
2	0927	8	42	122	1075.	3	HB
3	0708	6	70	130	1114.	3	HB
4	1131	5	42	92	589.	1	HB
5	0734	6	39	99	570.	2	HB
7	1029	4	17	57	245.	1	HB
8	1122	5	26	76	206.	4	HB
9	0700	3	26	56	145.	4	HB
10	0731	1	31	41	191.	3	HB
11	1143	3	33	63	377.	4	HB
12	0930	4	38	78	498.	1	HB
14	1340	4	35	75	803.	1	HB
15	0925	5	32	82	862.	5	HB
16	1100	6	27	87	635.	5	HB
18	0934	5	13	63	189.	2	HB
19	0655	4	8	48	194.	2	HB
20	1035	3	16	46	224.	2	AK
21	0850	5	11	61	292.	2	AK
22	0824	4	13	53	30.	2	HB
23	0658	4	10	50	31.	2	HB
24	0900	2	4	24	4.	1	HB
25	1019	5	20	70	107.	2	HB
26	0934	5	15	65	148.	1	HB
27	0840	3	14	44	251.	3	HB
28	0640	4	15	55	310.	2	HB
29	0915	5	12	62	313.	2	AK
30	1115	7	14	84	344.	4	AK
31	0710	4	6	46	410.	3	AK

LE SOLEIL A ETE OBSERVE 27 JOURS SUR 31 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 67.7

EDITEUR RESPONSABLE

A. KOECKELENBERGH

OBSERVATOIRE ROYAL DE BELGIQUE

UCCLE BELGIUM

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U' = K * U FOR 1983 AUGUST

K' = 1.010 (*)

1	***	7	57	13	***	19	48	25	70
2	123	8	76	14	75	20	46	26	65
3	131	9	56	15	82	21	61	27	44
4	92	10	41	16	87	22	53	28	55
5	99	11	63	17	***	23	50	29	62
6	***	12	78	18	63	24	24	30	84
								31	46

THE SUN WAS OBSERVED 27 DAYS ON 31 POSSIBLE
THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 67

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1983 AUGUST
E AND F BRUNNER'S TYPE GROUPS

UCCLE NO	EAST LIMB DATE	DATE	AND TYPE	WEST LIMB DATE
		IST OBS	CMF	LAST OBS
2-1738	7 27.2	28 D	8 3.0	9 C 8 9.7

PROBABLE RETURN OF MAJOR GROUPS FOR 1983 SEPTEMBER

NO	NEW EAST LIMB	NEW CMF	NEW WEST LIMB
2	8 23.8	8 30.6	9 6.3