



SUNSPOT - BULLETIN

1983 , No. 9

Provisional Sunspot - Numbers for SEPTEMBER 1983

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

Day	R _I	Day	R _I
1	46	16	38
2	56	17	35
3	59	18	45
4	69	19	40
5	81	20	32
6	78	21	38
7	72	22	38
8	72	23	42
9	74	24	46
10	77	25	45
11	65	26	50
12	41	27	46
13	36	28	48
14	36	29	48
15	42	30	33

MEAN = 50.9

Predictions of the smoothed
 monthly Sunspot - Numbers

Classical Method		SIDC Adjusted Values	
1983 Oct 72	1984 Jan 66	1983 Oct 73	1984 Jan 67
Nov 70	Feb 64	Nov 71	Feb 65
Dec 68	Mar 63	Dec 69	Mar 64

Brussels , October 1 , 1983

A . Koeckelenbergh .

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S.I.D.C. SUMMARY OF URSIGRAMS

1983 SEPTEMBER $f_{im} = 50.9$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R_I	46	56	59	69	81	78	72	72	74	77	65	41	36	36	42
FPSI	40	31	16	36	-3	43	47	47	41	41	11	7	5	11	19
10,7cm	111	109	105	109	116	115	117	117	114	108	109	104	103	104	105
CDS	97	92	90	88	82	75	69	76	80	82	82	83	70	85	-
XFI	9	15	3	10	7	0	3	2	1	2	5	12	4	2	3
XI	0/0	1/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0
A_K	20	8	6	4	7	7	27	14	17	16	14	11	10	8	23

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	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
R_I	38	35	45	40	32	38	38	42	46	45	50	46	48	48	33
FPSI	25	27	25	9	9	11	12	19	41	55	66	89	89	69	75
10,7cm	107	104	102	100	100	102	105	112	111	111	115	119	114	114	114
CDS	-	86	79	84	87	89	87	82	83	82	82	81	78	80	81
XFI	4	7	1	0	-	2	10	3	5	10	3	0	2	7	4
XI	0/0	0/0	0/0	0/0	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
A_K	24	27	14	42	24	12	12	5	10	34	22	16	11	9	5

mg.st

R_I : provisional International Sunspot-Numbers .

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

10.7 cm: 2800 MHz solar flux from the ursigrams .

CDS : 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

PROVISOIRES

PROVISIONAL

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

SEPTEMBRE 1963

DATE	UT	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	NOMB REL ZONE CENTRALE	PSI 10-6 WM-2	QUAL	OBS
1	1505	4	8	48	11	520.	2	AK
2	0712	4	7	47	0	499.	2	HB
4	0840	6	26	86	36	611.	3	AK
5	0950	7	36	106	47	568.	3	AK
6	0808	5	33	83	43	541.	2	HB
7	0958	5	26	76	23	522.	3	HB
8	0650	5	20	70	41	510.	2	HB
10	1045	7	26	96	66	744.	1	CG
11	0340	5	23	73	56	70.	1	HB
13	0930	3	14	44	0	30.	2	AK
15	1623	2	13	33	22	64.	2	HB
16	0723	1	12	22	22	244.	2	HB
17	0723	1	10	20	20	246.	1	HB
19	0715	2	12	32	0	54.	2	HB
20	1141	3	12	42	11	85.	5	HB
22	0720	3	5	35	12	136.	3	HB
23	0726	3	7	37	11	118.	2	HB
24	0845	3	38	68	18	204.	2	CG
25	1018	2	23	43	13	277.	2	HB
26	1157	2	28	48	0	348.	5	HB
27	1135	3	41	71	55	484.	3	AK
28	1035	3	54	84	71	756.	3	AK
29	0756	2	33	53	53	405.	2	HB

LE SOLEIL A ETE OBSERVE 23 JOURS SUR 30 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 57.3

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NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U'=K*U FOR 1983 SEPTEMBER

K' = .942 (*)

1	45	7	71	13	41	19	30	25	40
2	44	8	65	14	***	20	39	26	45
3	***	9	***	15	31	21	***	27	66
4	81	10	90	16	20	22	32	28	79
5	99	11	68	17	18	23	34	29	49
6	78	12	***	18	***	24	64	30	***
								31	***

THE SUN WAS OBSERVED 23 DAYS ON 30 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 53

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

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

UCCLE EAST LIMB NO	DATE	IST	DATE AND TYPE OBS	WEST LIMB DATE
3-1740	9 21.3	22	H 9 28.1	29 6 10 4.8

PROBABLE RETURN OF MAJOR GROUPS FOR 1983 OCTOBER

NO	NEW EAST LIMB	NEW CMP	NEW WEST LIMB
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NONE