

SUNSPOT - BULLETIN

1981 , No. 2

Provisional Sunspot - Numbers for February 1981

Dependent on observations at Locarno Specola Solare ,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.

Day	R _I	Day	R _I
1	148	15	129
2	132	17	120
3	154	18	131
4	126	19	138
5	133	20	133
6	172	21	142
7	158	22	136
8	129	23	98
9	124	24	124
10	157	25	137
11	178	26	169
12	185	27	175
13	153	28	170
14	142		
15	124		

Mean = 143 , 5

Predictions of the smoothed
 monthly Sunspot - Numbers

March	134	June	127
April	132	July	125
May	130	August	123

Brussels , March 2 , 1981

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S.I.D.C. SUMMARY OF URSIGRAMS

1981 FEBRUARY $r'_{im} = 143, 5$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R'_{Im}	148	132	154	126	133	172	158	129	124	157	178	185	153	142	124
PPSI	177	152	153	120	104	124	62	111	58	109	187	184	185	170	167
10,7cm	214	216	215	203	193	194	186	184	132	190	191	199	203	205	199
XFI	13	18	6	6	20	42	46	37	20	32	7	11	46	9	24
A_K	14	21	14	12	24	48	19	15	19	2	13	14	6	3	12

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
R'_{Im}	129	120	131	138	133	142	136	98	124	137	169	175	170			
PPSI	174	145	166	100	89	184	158	170	105	206	213	183				
10,7cm	192	190	199	183	193	188	204	228	241	239	243	240				
XFI	12	132	24	32	123	10	26	14	144	19	227	40				
A_K	12	6	6	6	7	4	8	11	22	25	22	20				

R'_{Im} : provisional International monthly Sunspot-Number from S.I.D.C.

R'_I : provisional International daily Sunspot-Number from S.I.D.C.

PPSI : Prompt Photometric Sunspot Index from S.I.D.C. in 10^{-5} W.m^{-2} .

10,7 cm: 2800 MHz solar radio flux from Ursigrams in $10^{-22} \text{ W.m}^{-2} \cdot \text{Hz}^{-1}$.

XFI : X'-flare Index from S.I.D.C. on the base of Ursigrams.

A_K : geomagnetic Index from Ursigrams.

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

PROVISOIRES

PROVISIONAL

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

FEVRIER 1981

DATE	TU	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	PPSI 19-8 WM-C	QUALITE	OBSER
1	G940	9	102	192	1766.	3	AK
2	G900	7	65	135	1516.	3	AK
5	1010	10	32	132	1043.	2	GE
10	1057	10	47	147	1090.	1	ST
11	1037	14	122	262	1668.	4	ST
12	1019	16	118	278	1843.	3	ST
13	G933	11	72	182	1853.	2	GE
14	G914	11	121	231	1701.	4	ST
15	G928	7	45	115	1668.	1	GE
16	1020	7	110	150	1744.	4	AK
21	G950	9	45	135	1344.	2	GE
22	G932	10	41	141	1576.	1	GE
23	1016	7	32	102	1699.	2	GE
25	1249	8	72	152	2380.	3	ST
26	G940	9	66	176	2129.	2	ST
27	1000	9	80	170	1971.	2	ST

LE SOLEIL A ETE OBSERVE 16 JOURS SUR 28 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 170.6

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NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U* = K*U FOR 1981 FEBRUARY

K* = .988 (=)

1	189	7	***	13	179	19	***	25	150
2	133	8	***	14	228	20	***	26	173
3	***	9	***	15	113	21	133	27	167
4	***	10	145	16	177	22	139	28	***
5	130	11	258	17	***	23	100	29	***
6	***	12	274	18	***	24	***	30	***
								31	***

THE SUN WAS OBSERVED 16 DAYS ON 28 POSSIBLE
THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 168

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1981 FEBRUARY
E AND F BRUNNER'S TYPE GROUPS

UCCLE NO	EAST LIMB DATE	DATE	IST OBS	AND TYPE	TYPE	LAST OBS	WEST LIMB DATE
2-1705	2 4.7		5 A	2 11.4		16 E	2 18.2
18-1705	2 14.8		21 E	2 21.5		27 F	2 28.3
22-1705	2 21.8		22 A	2 26.6		27 E	3 7.3
27-1705	2 23.8		25 E	3 2.3		27 E	3 9.1

PROBABLE RETURN OF MAJOR GROUPS FOR 1981 MARCH

NO	NEW EAST LIMB	NEW CMP	NEW WEST LIMB
2	3 3.8	3 10.6	3 17.3
18	3 14.2	3 21.0	3 27.7