



# SUNSPOT BULLETIN

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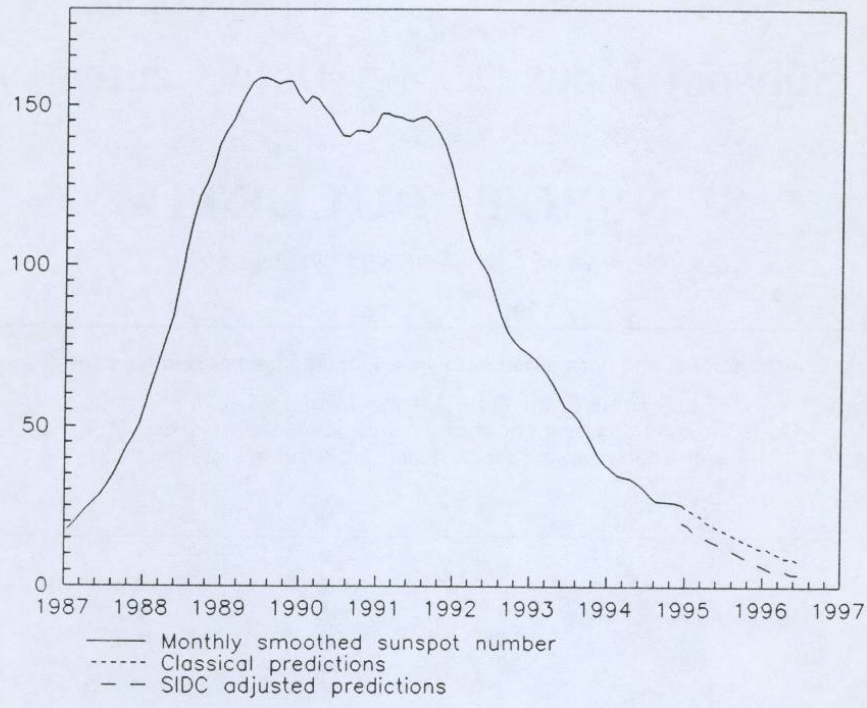
1995

n° 6

Provisional international and normalized hemispheric daily sunspot numbers for June 1995

computed at the *Observatoire Royal de Belgique*  
using observations from an international network  
with the *Locarno Specola Solare* as reference station.

Date	R' <sub>I</sub>	R' <sub>N</sub>	R' <sub>S</sub>
1	8	4	4
2	9	0	9
3	12	6	6
4	14	7	7
5	30	18	12
6	24	13	11
7	28	19	9
8	28	19	9
9	24	24	0
10	30	15	15
11	24	24	0
12	20	20	0
13	17	17	0
14	12	7	5
15	0	0	0
16	0	0	0
17	7	0	7
18	9	9	0
19	18	18	0
20	13	13	0
21	15	15	0
22	17	17	0
23	16	16	0
24	13	13	0
25	13	13	0
26	12	12	0
27	10	10	0
28	9	9	0
29	14	14	0
30	27	27	0
Monthly mean :	15.8	12.6	3.2
Cooperating stations :	44	25	25



**Predictions of the smoothed monthly Sunspot Numbers**

based on the most recent provisional monthly smoothed Sunspot Number calculated for December 1994 :  $25.6 (\pm 5\%)$

Classical Method

1995 Jan.	24(± 3)	1995 Jul.	17(± 4)	1996 Jan.	12(± 3)
Feb.	23	Aug.	16	Feb.	11
Mar.	22	Sep.	15	Mar.	10
Apr.	20	Oct.	14	Apr.	9
May	19	Nov.	13	May	9
Jun.	18	Dec.	12	Jun.	8

SIDC Adjusted values

1995 Jan.	19(± 2)	1995 Jul.	12(± 2)	1996 Jan.	6(± 2)
Feb.	17	Aug.	11	Feb.	5
Mar.	16	Sep.	10	Mar.	5
Apr.	15	Oct.	9	Apr.	5
May	14	Nov.	8	May	4
Jun.	13	Dec.	7	Jun.	4

Brussels, July 1, 1995.

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S.I.D.C. SUMMARY OF THE URSIGRAMS

1995 JUNE  $R'_M = 15.8$

Date	R <sub>i</sub>	PPSI	600	2800	COS	SFI	XI	Ak	SEA	MAG
31	9	1	31	069	985	0	0/0	32		
1	8	0	33	071	992	0	0/0	27		
2	9	1	32	073	993	0	0/0	22		
3	12	2	-	075	993	2	0/0	22		
4	14	7	34	079	993	9	0/0	10		
5	30	18	-	082	996	10	0/0	8		
6	24	15	36	079	999	6	0/0	10		
7	28	17	36	082	999	1	0/0	6		
8	28	26	37	084	992	3	0/0	4		
9	24	35	38	089	995	0	0/0	6		
10	30	34	39	084	992	1	0/0	12		
11	24	33	36	083	991	0	0/0	6		
12	20	12	36	081	997	2	0/0	4		
13	17	5	36	077	994	1	0/0	3		
14	12	1	36	076	994	0	0/0	8		
15	0	0	36	073	993	0	0/0	6		
16	0	0	32	071	999	0	0/0	17		
17	7	0	33	070	995	0	0/0	6		
18	9	3	34	070	999	1	0/0	14		
19	18	4	33	071	1000	0	0/0	31		
20	13	5	33	072	997	0	0/0	24		
21	15	11	33	072	997	2	0/0	12		
22	17	17	33	073	996	0	0/0	8		
23	16	8	33	072	998	4	0/0	10		
24	13	8	31	071	999	0	0/0	5		
25	13	9	34	071	997	0	0/0	20		
26	12	6	33	071	996	0	0/0	16		
27	10	2	33	072	998	0	0/0	8		
28	9	1	33	074	999	1	0/0	12		
29	14	2	35	078	990	2	0/0	8		
30	27	5	36	078	988	3	0/0	27	mgst-ssc (1010)	

Low to very low solar activity.

- R<sub>i</sub>, R'<sub>M</sub> : provisional international sunspot numbers from the S.I.D.C.  
 PPSI : prompt photometric sunspot index from the S.I.D.C. in 10<sup>-5</sup> w/m<sup>2</sup> : the quantity to subtract from the mean solar constant.  
 600 : 600 Mhz solar flux from Humain station (Belgium).  
 2800 : 2800 Mhz solar flux from Ottawa (origin : Ursigrams - UGEOI group 2). "The 10.7cm Flux data are provided as a service of the National Research Council of Canada."  
 COS : thousands of the cosmic ray counts (origin : Ursigrams - UCOSE Kerguelen).  
 SFI : From October 1992, Solar Flare Index from the S.I.D.C. (origin : Ursigrams - UGEOI group 3).  
 XI : X-flares index from the Ursigrams (M-flares/X-flares) (origin : Ursigrams - UGEOI group 2; UGEOI group 5).  
 Ak : planetary geomagnetic index from Wingst, Germany (origin : Ursigrams).  
 SEA : sudden enhancements of atmospherics from Uccle & Humain (Royal Observatory, Belgium).  
 MAG : magnetic events from Dourbes station (Royal Meteorological Institute, Belgium).  
 Remarks : sid (sudden ionospheric disturbance); ssc (sudden storm commencement); mgst (magnetic storm); sfe (solar flare effect); s-1-2-3-4 (class of flares); II-IV radio-burst; T (ten cm radio-burst); P (proton flare); p (proton event); gle (ground level event : neutron event); si (sudden impulse); F (Forbush); SFI Evaluation (1 x Sn+10 x "1"+100 x ">1").

DEPARTEMENT DE RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

UCCLE DAILY PROVISIONAL RELATIVE SUNSPOT NUMBERS FOR JUNE 1995

DATE	UT	NUMBER		RELATIVE SUNSPOT NUMBERS				PPSI 10-3 WM-2	QUAL	OBS
		OF GROUPS	OF SPOTS	TOTAL	NORTH	SOUTH	CENTRAL			
1	737	0	0	0	0	0	0	0.0	3	DC
2	716	0	0	0	0	0	0	0.0	2	DC
3	557	1	3	13	13	0	13	0.4	4	PC
4	1113	1	8	18	18	0	18	1.4	3	PC
6	800	2	9	29	11	18	0	3.7	2	DC
8	946	2	21	41	30	11	30	26.3	3	ST
11	1341	1	26	36	36	0	0	52.5	2	ST
13	1452	1	11	21	21	0	0	1.8	2	ST
14	1541	1	3	13	13	0	0	0.4	1	ST
16	909	0	0	0	0	0	0	0.0	2	ST
19	656	2	6	26	26	0	12	1.8	3	DC
20	954	1	6	16	16	0	0	2.9	2	DC
21	702	1	8	18	18	0	0	4.2	3	DC
22	720	1	14	24	24	0	24	19.5	2	DC
23	936	1	14	24	24	0	24	6.0	2	DC
24	1037	1	13	23	23	0	23	6.3	2	DC
25	958	1	9	19	19	0	19	6.0	3	DC
26	919	1	7	17	17	0	17	5.3	3	ST
27	659	1	4	14	14	0	0	4.4	3	DC
28	936	1	6	16	16	0	0	0.8	4	DC
29	731	1	1	11	11	0	11	0.4	4	DC
30	1225	3	12	42	42	0	20	4.8	4	DC

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS  $U' = K'U$  FOR JUNE 1995

$K' = 0.784$  (\*)

1	0	7	***	13	16	19	20	25	14
2	0	8	32	14	10	20	12	26	13
3	10	9	***	15	***	21	14	27	10
4	14	10	***	16	0	22	18	28	12
5	***	11	28	17	***	23	18	29	8
6	22	12	***	18	***	24	18	30	32

The Sun has been observed 22 days on 30 possible.  
The normalized relative monthly mean Wolf number is 14.

\*  $K'$  is the mean of the monthly  $K$ 's for the last five years.

UCCLE OBSERVATIONAL MAJOR SUNSPOT GROUPS FOR JUNE 1995  
E AND F BRUNNER'S TYPE GROUPS

Uccle N°	East Limb Date	Date and type			West Limb Date
		1st obs	CMP	Last Obs	
3-1896	6 1.9	6 A	6 8.7	13 C	6 15.4

PROBABLE RETURN OF MAJOR GROUPS FOR JULY 1995

N°	New East Limb	New CMP	New West Limb
3	6 29.1	7 5.8	7 12.6