

Sunsport Index



Data Center

SUNSPOT

BULLETIN

1984

No. 8

Provisional Sunspot - Numbers for AUGUST 1984

Dependent on observations at Locarno Specola Solare,
 complemented by an international network and
 determined at the Observatoire Royal de Belgique.
 Thirty six cooperating stations on 1984 Sept.1, 0830 UT.

Day	R _I	Day	R _I
1	14	16	23
2	15	17	18
3	14	18	17
4	25	19	9
5	18	20	16
6	24	21	12
7	27	22	10
8	32	23	19
9	32	24	24
10	34	25	36
11	29	26	49
12	30	27	41
13	28	28	33
14	27	29	34
15	23	30	21
		31	36

MEAN :: 24.8

Predictions of the smoothed
 monthly Sunspot - Numbers

Classical Method				S.I.D.C. Adjusted Values			
1984 Sep.	45	1984 Dec.	40	1984 Sep.	37	1984 Dec.	32
Oct.	43	1985 Jan.	38	Oct.	35	1985 Jan.	30
Nov.	42	Feb.	37	Nov.	34	Feb.	29

Precision on the sixth predicted value : ± 7

Classical estimated smoothed value for 1985 May : 33.8

Forecasted values are evaluated on the basis of the latest
 monthly smoothed value (1984 February) : 56.4 ± 5 %

Brussels, September 1st, 1984

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S.I.D.C. SUMMARY OF URSIGRAMS
1984 AUGUST $R'_{im} = 24.8$

Date	R_1	PPSI	2800	COS	XFI	XI	A_k	
1	14	2	82	84	0	0/0	52	mgst - ssc
2	15	3	84	85	0	0/0	21	mgst
3	14	4	86	87	0	0/0	17	
4	25	4	83	82	2	0/0	18	
5	18	2	83	85	3	0/0	10	
6	24	3	87	81	2	0/0	8	
7	27	5	90	86	2	0/0	4	
8	32	7	91	85	0	0/0	19	
9	32	13	92	83	0	0/0	24	
10	34	25	93	79	1	0/0	10	
11	29	20	88	77	-	-	14	
12	30	12	86	84	0	0/0	18	
13	28	11	84	77	0	0/0	12	
14	27	3	82	79	-	-	25	
15	23	3	81	83	4	0/0	22	mgst
16	23	2	81	77	0	0/0	16	
17	18	3	79	73	6	0/0	16	
18	17	7	77	72	0	1/0	8	
19	9	9	74	70	0	0/0	17	
20	16	12	74	78	0	0/0	12	
21	12	16	76	76	0	0/0	6	
22	10	16	74	80	0	0/0	3	
23	19	13	74	76	0	0/0	11	
24	24	6	80	83	11	0/0	22	
25	36	7	81	83	11	0/0	23	
26	49	18	86	79	22	0/0	12	
27	41	19	89	78	11	0/0	28	mgst
28	33	26	87	80	11	0/0	35	
29	34	43	89	-	2	0/0	20	
30	21	45	-	-	-	-	-	
31	36	50	91	65	3	0/0	13	

SSC on 31/7

Probably the Sunspot-Number will grow during the period 1984 october to december

- R'_{im} : provisional International monthly Sunspot-Number from the S.I.D.C.
 R'_1 : provisional International daily Sunspot-Numbers 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 the sunspots.
 2800 : 2800 Mhz solar flux from the Ursigrams (origin:Herzberg Institute Ottawa)
 COS : thousands of cosmic rays counts from the Ursigrams
 XFI : X-flare Index from the S.I.D.C.on the base of the Ursigrams .The sum of number of class C-flares +10 x class M-flares of significant X-ray flux + 100 x X-flares with important X-ray flux .
 XI : X-flare Index from the Ursigrams (number of M-flares/number of X-flares)
 A_k : geomagnetic Index of Wingst station from the Ursigrams .
 sid : Sudden ionospheric disturbance ;ssc :sudden storm commencement
 sfe : solar flare effect ; // :two ribbonsflare ; P :proton flare
 mst : magnetic storm ; II radio- outburst ; pca :polar cap absorption
 aur : aurorae ; 1b ,2b ...: flare of class 1 or2 (bright) .

OBSERVATOIRE ROYAL DE BELGIQUE

DEPARTEMENT 4 RADIOASTRONOMIE ET PHYSIQUE SOLAIRE

NOMBRES RELATIFS DE WOLF JOURNALIERS

PROVISOIRES

PROVISIONAL

SUNSPOT RELATIVE NUMBERS

STATION UCCLE BELGIUM

AOUT 1984

DATE	UT	NOMBRE DE GROUPES	NOMBRE DE TACHES	NOMBRE DE WOLF	NOMB REL ZONE CENTRALE	PPSI 10-6 WM-2	QUAL	OBS
1	0807	1	6	16	0	2.	2	VI
3	0707	1	9	19	19	14.	2	VI
4	0820	3	33	43	31	69.	4	AK
5	0845	1	1	11	0	2.	3	AK
6	0627	1	5	35	0	7.	2	HB
7	0630	2	9	29	0	15.	2	HB
8	0900	3	30	60	49	21.	2	VI
9	0700	1	26	36	36	15.	4	HB
10	0856	1	26	36	36	247.	3	HB
11	0920	1	24	34	34	233.	1	CG
12	1520	2	24	44	44	199.	1	HB
13	0710	2	21	41	16	164.	3	HB
14	0620	2	12	32	17	5.	2	HB
15	0650	2	3	23	0	4.	1	HB
16	1130	1	1	11	0	30.	2	HB
17	0640	2	3	23	0	73.	3	HB
18	0920	2	4	24	0	136.	4	AK
19	1030	1	3	13	0	205.	3	CG
20	0659	1	1	11	0	264.	3	VI
21	1204	1	1	11	11	314.	4	VI
22	0747	1	2	12	12	329.	3	VI
23	0822	1	5	25	25	327.	3	VI
24	0553	2	5	25	25	26.	1	HB
25	1250	3	21	51	27	33.	2	CG
26	1433	2	19	39	0	227.	2	HB
27	0650	2	27	43	0	204.	3	HB
28	0730	2	34	54	0	80.	2	VI
29	0844	2	24	44	33	225.	1	VI
30	0746	1	29	39	39	245.	1	VI
31	0656	1	24	34	34	246.	1	VI

LE SOLEIL A ETE OBSERVE 30 JOURS SUR 31 POSSIBLES
LE NOMBRE RELATIF DE WOLF MOYEN EST DE 30.6

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NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS

U' = K'U FOR 1984 AUGUST

K' = 1.010 (*)

1	16	7	29	13	41	19	13	25	51
2	***	8	60	14	32	20	11	26	39
3	19	9	36	15	23	21	11	27	43
4	43	10	36	16	11	22	12	28	54
5	11	11	34	17	23	23	25	29	44
6	35	12	44	18	24	24	25	30	39
								31	34

THE SUN WAS OBSERVED 30 DAYS ON 31 POSSIBLE
 THE NORMALISED RELATIVE MONTHLY MEAN WOLF NUMBER IS 30

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

UCCLE OBSERVATIONAL MAJOR SUNSPOTS FOR 1984 AUGUST
 E AND F BRUNNER'S TYPE GROUPS

UCCLE EAST LIMB	DATE AND TYPE			WEST LIMB
NO	DATE	IST OBS	CMP	LAST OBS
NONE				

PROBABLE RETURN OF MAJOR GROUPS FOR 1984 SEPTEMBER

NO	NEW EAST LIMB	NEW CMP	NEW WEST LIMB
NONE			

NONE