



Sunspot Index and Long-term Solar Observations

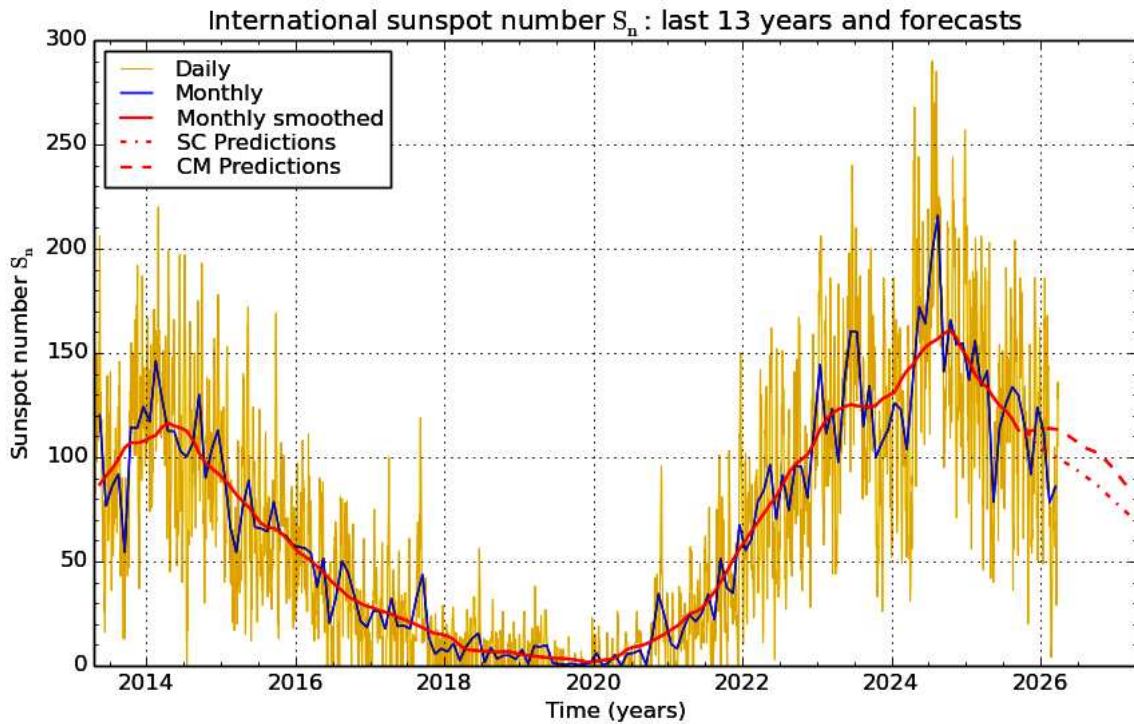
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SUNSPOT BULLETIN 2026 n° 03

Provisional international and normalized hemispheric daily sunspot numbers for March 2026

Computed at the *Royal Observatory of Belgium* using observations from an international network with the *Specola Solare Ticinese Locarno* as reference station.

Date	S_n	$S_n(N)$	$S_n(S)$
1	75	59	16
2	76	60	16
3	78	65	13
4	65	58	7
5	85	69	16
6	82	70	12
7	78	64	14
8	74	64	10
9	75	66	9
10	79	61	18
11	105	84	21
12	95	71	24
13	80	64	16
14	57	40	17
15	64	32	32
16	69	28	41
17	61	24	37
18	59	22	37
19	34	15	19
20	29	13	16
21	41	13	28
22	99	38	61
23	111	49	62
24	109	54	55
25	105	62	43
26	112	60	52
27	136	84	52
28	128	91	37
29	133	97	36
30	133	96	37
31	135	97	38
Monthly mean	85.9	57.1	28.8
Cooperating stations	73	65	65



SILSO graphics (<http://sidc.be/silso>) Royal Observatory of Belgium 2026 April 1

Predictions of the monthly smoothed Sunspot Number
 using the last provisional value, calculated for September 2025: 112.9 ($\pm 5\%$)

	SM	CM		SM	CM		SM	CM
2025 Oct	111	112	2026 Apr	98	112	2026 Oct	86	102
Nov	111	113	May	97	110	Nov	83	99
Dec	105	114	Jun	95	108	Dec	80	95
2026 Jan	103	114	Jul	93	106	2027 Jan	77	92
Feb	102	114	Aug	90	104	Feb	75	88
Mar	100	113	Sep	88	103	Mar	72	85

SM : SIDC classical method : based on an interpolation of Waldmeier’s standard curves. The estimated error ranges from 7% (first month) to 35% (last month)

CM : Combined method : the combined method is a regression technique coupling a dynamo-based estimator with Waldmeier’s method of standard curves, designed by K. Denkmayr.

Ref.: K. Denkmayr, P. Cugnon, 1997 : “About Sunspot Number Medium-Term Predictions”, in “Solar-Terrestrial Prediction Workshop V”, eds. G.Heckman et al., Hiraiso Solar Terrestrial Research Center, Japan, 103.

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Summary of the URSIGRAMs from S.I.D.C.

Date	S _n	PPSI	600	2800	COS	SFI	XI	Ak
28	58	25	-	141	////	0	0/0	10
1	75	19	-	147	////	2	0/0	10
2	76	34	-	148	////	0	0/0	4
3	78	45	-	144	////	4	0/0	15
4	65	33	-	141	////	0	0/0	8
5	85	47	-	146	////	0	0/0	3
6	82	53	-	143	////	0	0/0	9
7	78	51	-	135	////	0	0/0	20
8	74	44	-	135	////	0	0/0	25
9	75	33	-	128	////	2	0/0	8
10	79	21	-	127	////	0	0/0	16
11	105	26	-	123	////	0	0/0	10
12	95	16	-	121	////	1	0/0	10
13	80	13	-	112	////	17	1/0	19
14	57	14	-	112	////	12	0/0	36
15	64	16	-	109	////	2	1/0	19
16	69	13	-	111	////	0	1/0	9
17	61	16	-	111	////	1	1/0	4
18	59	12	-	113	////	10	1/0	6
19	34	12	-	106	////	2	0/0	2
20	29	10	-	102	////	0	0/0	29
21	41	8	-	107	////	0	0/0	35
22	99	15	-	120	////	2	0/0	75
23	111	19	-	124	////	0	0/0	40
24	109	28	-	128	////	0	0/0	17
25	105	32	-	140	////	2	0/0	13
26	112	62	-	152	////	11	1/0	10
27	136	69	-	156	////	3	0/0	8
28	128	72	-	162	////	///	///	12
29	133	79	-	158	////	0	0/0	14
30	133	70	-	152	////	2	0/1	11
31	135	66	-	141	////	0	0/0	6

S_n : provisional international 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 : the quantity to be subtracted from the mean solar constant to account for the sunspot contribution.

600 : 600 Mhz solar flux from the station at Humain (Belgium).

2800 : 2800 Mhz solar flux from Ottawa (origin : Ursigrams - UGEOI). The 10.7cm Flux data are a service of the National Research Council of Canada.

COS : thousands of the cosmic ray counts (origin : Ursigrams - UCOSE Terre Adélie).

SFI : Solar Flare Index from the S.I.D.C. (origin: Ursigrams - UGEOR, evaluation : $1 \times S_n + 10 \times "1" + 100 \times ">1"$).

XI : X-flares index from the Ursigrams (M-flares/X-flares) (origin: Ursigrams - UGEOR, UGEOI).

Ak : geomagnetic index from Wingst, Germany (origin: Ursigrams).

SOLAR PHYSICS DEPARTMENT

UCCLE DAILY PROVISIONAL RELATIVE SUNSPOT NUMBERS FOR MARCH 2026

DATE	UT	NUMBER		RELATIVE SUNSPOT NUMBERS			PPSI	QUAL	OBS	
		OF GROUPS	OF SPOTS	TOTAL	NORTH	SOUTH				CENTRAL
1	900	6	19	79	62	17	13	14.6	3	OB
2	915	5	26	76	61	15	29	24.7	3	JV
3	1535	7	26	96	71	25	30	48.0	3	JV
4	904	4	29	69	57	12	42	24.5	3	JV
5	916	5	28	78	62	16	53	49.6	2	JV
6	937	5	35	85	72	13	57	65.4	1	JV
7	1045	5	23	73	62	11	48	100.9	1	JV
8	1034	5	26	76	65	11	31	88.5	2	JV
9	825	7	25	95	66	29	43	54.4	3	SB
10	1240	7	22	92	73	19	19	42.9	2	SB
11	1510	9	24	114	86	28	0	67.8	2	SB
12	825	8	17	97	74	23	11	37.6	2	SB
14	1140	4	12	52	38	14	27	37.5	1	SB
15	1000	5	18	68	38	30	26	36.7	2	SB
16	850	6	38	98	51	47	57	12.4	3	OL
17	1010	4	25	65	26	39	39	12.8	2	OL
18	815	4	27	67	12	55	43	8.9	3	OL
19	815	3	15	45	23	22	22	7.6	3	OL
20	1005	2	10	30	12	18	0	6.1	2	OL
21	825	3	10	40	12	28	0	4.3	3	OL
22	845	8	27	107	36	71	47	11.6	3	OL
23	745	7	27	97	40	57	30	22.1	2	AE
24	1130	7	27	97	43	54	29	31.1	2	AE
26	845	7	21	91	43	48	12	127.6	2	AE
27	715	9	27	117	71	46	26	122.4	3	AE
28	930	7	32	102	73	29	25	160.7	2	AE
29	915	8	35	115	83	32	39	171.1	2	AE
30	710	9	39	129	87	42	23	190.3	2	SB
31	1600	9	35	125	93	32	42	147.8	3	OB

The relative mean sunspot number is 85.3.

NORMALISED UCCLE OBSERVATIONAL SUNSPOT NUMBERS $U'=K'U$ FOR MARCH 2026

$K' = 0.978 (*)$

1	77	7	71	13	***	19	44	25	***
2	74	8	74	14	51	20	29	26	89
3	94	9	93	15	67	21	39	27	114
4	67	10	90	16	96	22	105	28	100
5	76	11	111	17	64	23	95	29	112
6	83	12	95	18	66	24	95	30	126
								31	122

The normalised relative monthly mean sunspot number is 83.

(*) K' is the mean of the monthly K' for the last five years.

The Sun has been observed 29 days on 31 possible.