



Sunspot Index and Long-term Solar Observations

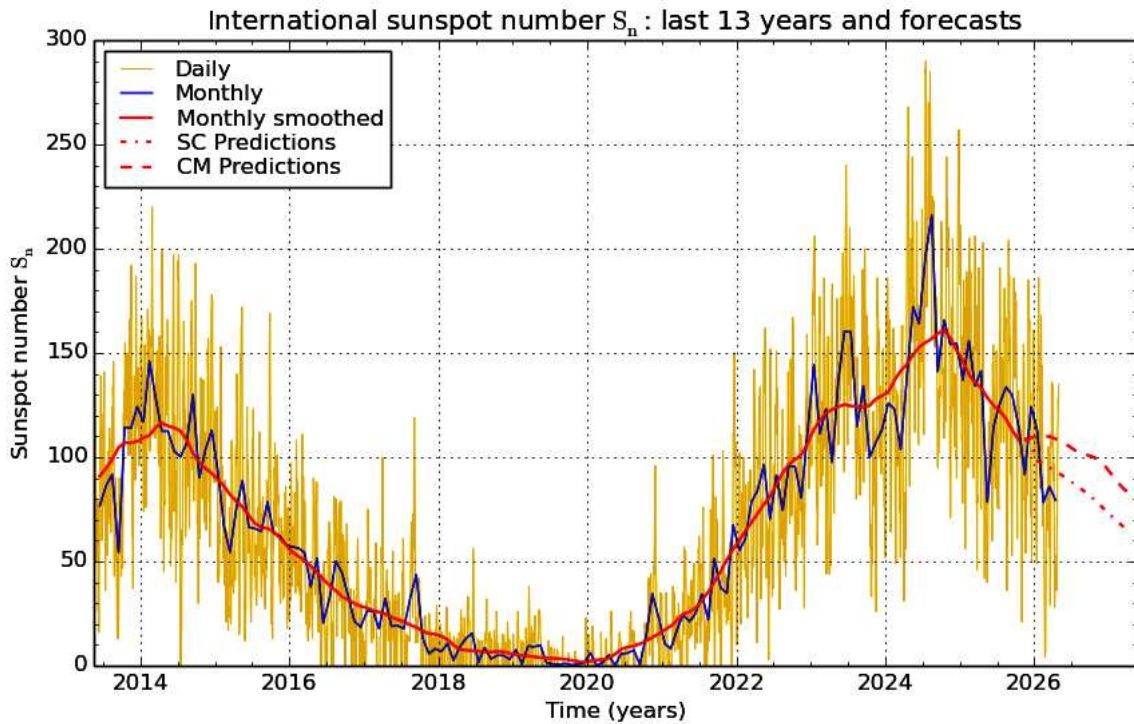
World Data Center supported by the ICSU - WDS

SUNSPOT BULLETIN 2026 n° 04

Provisional international and normalized hemispheric daily sunspot numbers for April 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	129	95	34
2	133	97	36
3	120	82	38
4	106	80	26
5	89	70	19
6	97	72	25
7	89	69	20
8	70	48	22
9	59	36	23
10	28	17	11
11	39	27	12
12	38	23	15
13	53	30	23
14	53	32	21
15	49	37	12
16	50	39	11
17	48	37	11
18	41	30	11
19	36	25	11
20	37	26	11
21	50	39	11
22	71	56	15
23	68	54	14
24	94	64	30
25	114	79	35
26	115	75	40
27	117	81	36
28	128	81	47
29	123	78	45
30	135	80	55
Monthly mean	79.3	55.3	24.0
Cooperating stations	68	59	59



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

Predictions of the monthly smoothed Sunspot Number
 using the last provisional value, calculated for October 2025: 108.3 ($\pm 5\%$)

	SM	CM		SM	CM		SM	CM
2025 Nov	109	108	2026 May	91	107	2026 Nov	77	99
Dec	105	109	Jun	89	106	Dec	75	95
2026 Jan	98	110	Jul	87	103	2027 Jan	72	92
Feb	97	110	Aug	85	102	Feb	69	88
Mar	95	110	Sep	83	101	Mar	66	85
Apr	93	109	Oct	80	100	Apr	64	82

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.

Brussels, May 1, 2026 08:35 UT

Reproduction permitted if source mentioned.

Editor: Laure Lefevre

3, avenue Circulaire, B1180 Bruxelles, Belgium

Fax: .. /32/(0)2/374.98.22 Tel: .. /32/(0)2/790.39.23 Email: silso.info@oma.be

Web: <http://sidc.oma.be/silso>

FTP anonymous : omaftp.oma.be, directory: dist/astro/sidcdata

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

Date	S _n	PPSI	600	2800	COS	SFI	XI	Ak
31	135	66	-	141	////	0	0/0	6
1	129	33	-	142	////	0	0/0	10
2	133	61	-	140	////	104	1/0	35
3	120	40	-	136	////	22	1/0	41
4	106	37	-	128	////	///	///	16
5	89	30	-	118	////	1	0/0	14
6	97	18	-	116	////	0	0/0	10
7	89	13	-	109	////	1	0/0	10
8	70	7	-	108	////	2	0/0	8
9	59	4	-	98	////	1	1/0	6
10	28	3	-	94	////	2	0/0	20
11	39	6	-	93	////	1	0/0	13
12	38	12	-	99	////	0	0/0	9
13	53	19	-	99	////	0	0/0	4
14	53	13	-	101	////	0	0/0	3
15	49	17	-	105	////	///	///	8
16	50	26	-	108	////	///	///	3
17	48	33	-	107	////	2	0/0	6
18	41	36	-	106	////	0	0/0	35
19	36	27	-	105	////	0	0/0	18
20	37	25	-	105	////	2	0/0	30
21	50	20	-	112	////	4	0/0	22
22	71	19	-	116	////	5	0/0	6
23	68	33	-	128	////	29	5/0	6
24	94	38	-	146	////	128	2/2	12
25	114	53	-	148	////	9	2/0	12
26	115	53	-	156	////	35	3/0	12
27	117	60	-	142	////	21	1/0	7
28	128	60	-	143	////	35	3/0	2
29	123	55	-	143	////	13	0/0	6
30	135	51	-	143	////	0	0/0	17

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 APRIL 2026

DATE	UT	NUMBER		RELATIVE SUNSPOT NUMBERS			PPSI	QUAL	OBS	
		OF GROUPS	OF SPOTS	TOTAL	NORTH	SOUTH				CENTRAL
1	1430	11	38	148	106	42	73	66.8	2	SB
4	1550	8	39	119	77	42	60	96.4	2	SB
5	1300	7	35	105	80	25	58	86.2	2	SB
6	810	7	38	108	83	25	16	11.5	3	OL
7	715	6	24	84	72	12	12	17.1	3	OB
8	715	5	18	68	45	23	0	11.2	3	OB
9	700	5	8	58	36	22	0	1.9	3	OB
10	910	3	6	36	25	11	0	1.5	2	OB
11	1120	3	16	46	35	11	22	7.9	3	OL
12	915	2	20	40	29	11	40	22.1	2	OB
14	848	4	14	54	32	22	22	20.8	2	JV
15	800	4	23	63	41	22	11	18.4	3	OL
16	937	3	22	52	41	11	11	49.9	2	JV
17	741	3	21	51	40	11	28	64.0	2	JV
19	734	2	23	43	32	11	32	66.1	3	JV
20	745	2	19	39	28	11	28	62.0	2	PV
21	1010	4	19	59	48	11	14	63.3	2	PV
22	800	5	26	76	54	22	0	40.8	3	PV
23	745	4	25	65	54	11	0	79.6	3	PV
24	750	5	25	75	49	26	35	65.1	2	PV
25	826	7	52	122	83	39	69	109.0	2	JV
26	705	6	53	113	75	38	61	98.8	3	PV
27	830	6	77	137	97	40	100	128.5	2	OL
28	725	7	83	153	98	55	109	100.9	3	OL
29	745	7	84	154	96	58	90	132.2	3	OL
30	740	8	82	162	98	64	77	122.0	3	OL

The relative mean sunspot number is 85.8.

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

$K' = 0.954 (*)$

1	141	7	80	13	***	19	41	25	116
2	***	8	65	14	52	20	37	26	108
3	***	9	55	15	60	21	56	27	131
4	114	10	34	16	50	22	73	28	146
5	100	11	44	17	49	23	62	29	147
6	103	12	38	18	***	24	72	30	155

The normalised relative monthly mean sunspot number is 82.

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

The Sun has been observed 26 days on 30 possible.