

Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR DIVISION

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Daily Mean Sunspot Numbers for April 2000

Day	Mn. Raw Ra	S.D.	Mn. RaK	S.D.
1	259	9.3	224	8.6
2	228	11.4	197	10.6
3	240	14.3	186	9.6
4	218	14.2	169	10.8
5	169	6.1	140	4.0
6	138	4.8	119	4.3
7	122	4.1	108	2.7
8	122	4.9	104	3.5
9	130	6.7	103	4.3
10	118	7.5	100	5.1
11	130	7.5	103	5.4
12	148	7.1	119	5.2
13	147	5.7	131	5.2
14	143	7.9	111	8.2
15	133	5.4	115	5.3
16	136	6.3	118	4.6
17	130	9.6	108	6.3
18	113	5.5	94	2.9
19	134	9.0	106	6.9
20	156	6.4	130	4.7
21	177	6.1	151	4.9
22	190	7.1	161	5.2
23	208	8.4	175	6.5
24	219	9.0	183	9.0
25	193	7.3	155	5.6
26	160	6.3	132	4.6
27	142	8.5	118	7.4
28	149	8.4	133	6.1
29	125	5.6	111	4.3
30	116	4.6	106	3.8
31	—	—	—	—

Means: 159.8

133.6

No. of Observations: 824

Days	Obs. ID	Name
12	AAP	A. Abbott
6	ANDE	E. Anderson
9	BARH	H. Barnes
9	BATR	R. Battaiola
10	BEB	R. Berg
5	BLAJ	J. Blackwell
11	BMF	M. Boschat
29	BOSB	B. Bose
27	BRAB	B. Branchett
23	BRAD	D. Branchett
10	BRAR	R. Branch
24	BROB	R. Brown
10	CARJ	J. Carlson
29	CHAG	G. Morales
29	CLZ	C. Laurent
12	COLB	B. Collins
11	COMT	T. Compton
10	DEMF	F. Dempsey
18	DRAJ	J. Dragesco
22	ELR	E. Reed
15	FEEC	C. Feehrer
12	FERJ	J. Fernandez
19	FUJK	K. Fujimori
19	GIOR	R. Giovanoni
14	GOTS	S. Gottschalk
4	HALB	B. Halls
8	HAYK	K. Hay
8	HRUT	T. Hrutkay
4	JACT	T. Jacobsson
24	JAMD	D. James
22	JENS	S. Jenner
12	KNJS	J&S Knight
13	LERM	M. Lerman
22	LEVM	M. Leventhal
12	LUBT	T. Lubbers
8	LWT	T. Lohvinenko
20	MALK	K. Malde
8	MARE	E. Mariani
22	MARJ	J. Maranon
2	MCHL	L. McHenry
5	MILJ	J. Miller
22	MMI	M. Moeller
5	MUDG	G. Mudry
2	RANT	T. Randall
18	RICE	E. Richardson
18	RITA	A. Ritchie
18	SCGL	G. Schott
6	SCHG	G. Scholl
10	SIMC	C. Simpson
27	STEM	G. Stemmler
19	STQ	N. Stoikidis
24	TESD	D. Teske
4	URBP	P. Urbanski
16	VARG	G. Vargas
20	WILW	W. Wilson
23	WITL	L. Witkowski
22	YESH	H. Yesilyaprak

EDITOR'S NOTES

Back Issues of the Solar Bulletin

Last month I mentioned my hope that the processing of sunspot data contributed during the period December 1999 to February 2000 could commence this month. I'm pleased to report that a start has been made on the backlog and that we expect to be able to publish the January and February Bulletins shortly.

Revised RaK's for March

Due to the change in mailing addresses, raw and k-corrected means published in the March Bulletin (v. 56, 3) were necessarily based on fewer observations than normal. Essentially all of these observations are now available, and the statistics have been recomputed. A revised version of the March Bulletin is included with this mailing. Although it does not contain the customary list of contributors, all those who have sent in observations will be credited in the Solar Division's records.

Revised Historical RaK Values and Smoothed Means

As many observers know, data contributed from April 1997 to August 1998 were not routinely analyzed with the aid of k-coefficients. Rather, raw means of daily Wolf Numbers were computed and published. These uncorrected means present a discontinuity in our historical data set and make difficult the reliable estimation of long term solar behavior as measured by the American Relative Sunspot Number (Ra).

The data reported during that period were reanalyzed this month using appropriate k-coefficients and forwarded to NGDC/NOAA. Smoothed mean RaK values (Rsm) have also been calculated using Waldmeier's (1961) 13-month "sliding average" method.

The revised values form a series that is continuous with the k-corrected Rsm values last reported in September 1996, and they are included in this issue of the Bulletin. We now hope to compute and present routine updates of these numbers as was in done the past.

Additions to the AAVSO's Website

New materials, aimed particularly at beginning observers, are now becoming available on the AAVSO website. These result from an initiative begun by Joseph Lawrence about eight months ago. They represent the output of a small committee of volunteers who expressed an interest in updating and enlarging the set of materials normally sent to prospective observers who request information about the Solar Division. Although the set is presently small, more items are planned, and the collection represents a start on a new observer's manual that can later be published on the website and in paper form. If you wish to take a look and do not have access to the website, hardcopies are available on request from AAVSO headquarters.

SID Reports

As in March, analyses of SID data are not included in the Bulletin. We hope to provide such analyses on a regular basis soon, and I want to encourage all SID observers to continue to send in their reports.

Thank you all once again for contributing your observations and for your patience during this transition period.

Clear Skies,

-CEF

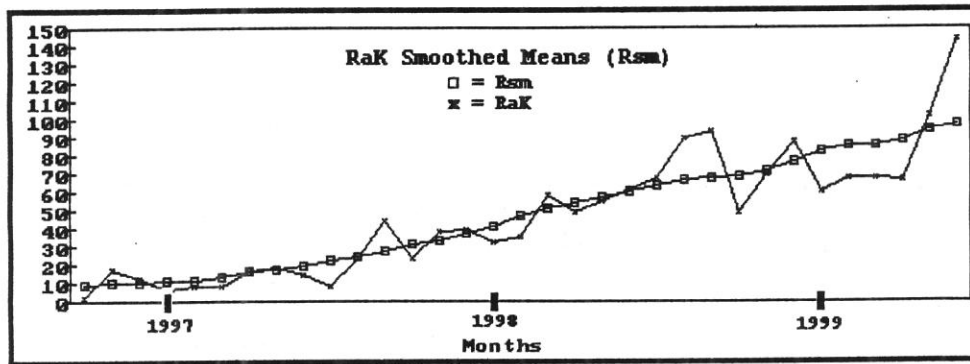
ADDRESSES

Sunspot and SID reports sent via regular mail:

Solar Coordinator
AAVSO
25 Birch St.

Sunspot and SID reports sent via email:

AAVSO@AAVSO.org
SUBJ: Attn: Solar Coordinator



Month	RaK	Rsm
Oct 96	1.4	8.5
Nov	16.1	9.4
Dec	12.0	10.0
Jan 97	5.5	10.1
Feb	7.9	10.4
Mar	7.9	12.6
Apr	15.3	15.2
May	17.8	17.0
Jun	13.8	19.0
Jul	7.7	21.2
Aug	22.8	23.4
Sep	43.9	26.6
Oct	22.6	30.1
Nov	37.7	33.0
Dec	38.9	36.5
Jan 98	31.1	40.9
Feb	34.8	46.1
Mar	57.8	50.8
Apr	49.0	53.9
May	54.7	56.3
Jun	60.4	59.6
Jul	66.1	62.8
Aug	88.5	65.3
Sep	92.3	67.0
Oct	48.9	68.0
Nov	68.8	70.7
Dec	86.4	76.0
Jan 99	59.6	81.8
Feb	67.0	84.6
Mar	66.6	84.8
Apr	65.2	87.6
May	101.6	93.7
Jun	142.1	96.8