

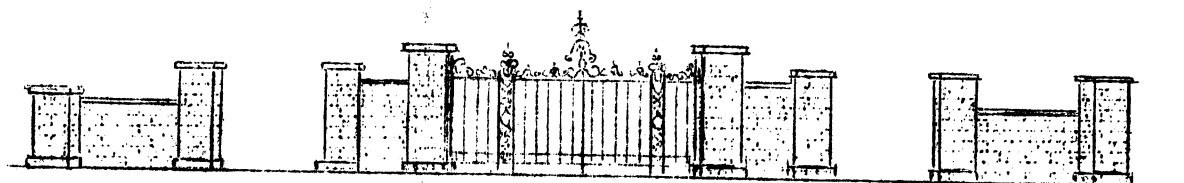
A.A.V.S.O.

SOLAR DIVISION BULLETIN.

Neal J. Heines , Editor.

March 1950.
Number 51, Page 125.

560 Broadway.
Paterson 4, New Jersey.



- MAIN GATE - PENN STATE -

Whether by train or automobile, the scenery in the vicinity of State College is such that will leave an everlasting impression on the visitor. One sees the rolling mountains around Bald Eagle Valley, the legendary Mt. Nittany, beautiful lakes and streams surrounded by foliage impressive with the progress of the seasons.

One is impressed also with the majesty of the buildings on the campus and the attending expansion due to the growth of the institution. Along with the majesty are additional examples of artistry such as that of the Main Gate, landscaping and interiors.

This is the haven that awaits the members of the American Association Of Variable Star Observers while attending the Spring Meeting on May fifth and sixth, Nineteen Hundred Fifty.

Full details will be supplied by the office of the AAVSO Recorder, in the near future. The sessions show great promise, from the number of interesting papers already received in this office at Solar Division Headquarters.

It is planned to have the Solar Division Album available at the Spring Meeting. Mr. Harry B. Chase is bringing this up to date. Those of you who have not sent in photos of themselves and their equipment will kindly do so at their earliest convenience. Mr. Chase's address is 40 Hummock Road, Quincy, Massachusetts.

Publishes as supplements to this Bulletin are two reports on seeing conditions. They are from Miss Dorothy Beetle, and, Mr. T. P. Maher. We await others for 1949. Please send same to this office.

February was a very erratic month in sunspot activity. With a low count of two groups and seven spots on the 8th., activity increased to nine groups, one-hundred thirteen spots on the 17th., day of this month. On this latter date after four days of cloudy weather here, a Major group was observed, well over one-hundred thousand miles in length.

Below is a rough sketch of the Multiple Observatories, two of which are already in operation, which State College has planned. The finished project, (as shown) will include ten observing stations, interconnected by a public-address system. Of these, the front group of four placed on a square, will contain a ten inch telescope. Six of the others are to house telescopes of varying sizes and types; a six inch refractor, a four inch Ross-Fecker astrographic Camera ; one six inch, amateur, Reflector, and a 1/10th., scale model of the new 200 inch Telescope at Mount Palomar. In one of the two remaining units there will be a valuable exhibit of telescopes, from past to present, the oldest, over two-hundred years, presented by Mr. Joe Kindig Jr., Class of '21, and the last is to be a miniature Planitarium designed and made in our own astronomical laboratories.

STATISTICS.

The total number of observed groups for the month of January was--- 24
The total number of days with sunspots for January was----- 31
Zurich's Provisional Relative Sunspot Number for January was----- 98.8
Mean (monthly) Sunspot Area (U.S. Naval Observatory) for November was 2463
* The highest sunspot group number, as assigned at Solar Division headquarters on February 17th., was 39. It represented a small one spot group in the north belt on the edge of the east limb at 1730 U.T.
*

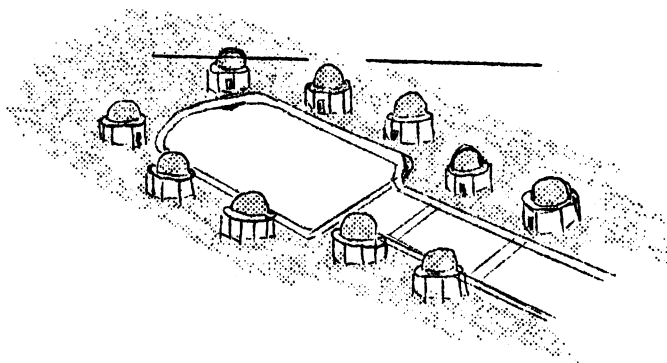
This information is given in order that the Solar Division Observers may check their group counting each month.

Predictions of the smoothed monthly sunspot numbers for the coming six months are as follows;

Feb. 107	May 98
Mar. 104	Jun. 95
Apr. 101	Jul. 92.

Broadcast by Swiss Broadcasting Corp.

Released by; Prof. M. Waldmeier.
Director: Federal Observatory,
Zurich. Switzerland.



Mr. Roy A. Seely, in charge of the Aurora work reports that no aurora were seen during the month of January, 1950.

PUBLICATIONS.

In Dorrit Hoffleit's "News Notes" in the February issue of Sky And Telescope we find some very interesting reading under the heading, "Action On The Sun". The new Film, from High Altitude Observatory, a Harvard Station at Climax, Colorado, is under discussion. New findings are revealed. This article should be read by all who are studying and observing the sun.

"SUN'S EXPLOSIONS STILL TOPS"

Science Weekly News Letter. February 4th., 1950.

This is another article dealing with Dr. Donald H. Menzel's contribution to one of the Astronomy sessions of the American Association For The Advancement of Science meetings held in New York City late in December 1949.

"One Million Degrees Is The Sun's Temperature"

Science Weekly News Letter January 28th., issue 1950.

A new confirmation on this subject.

"THE OBSERVERS HANDBOOK" for 1950.

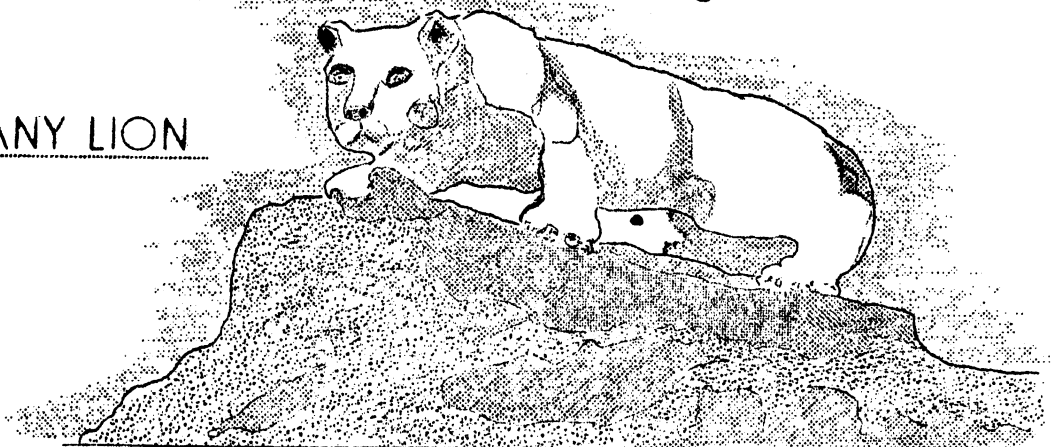
This book can be obtained from The Royal Astronomical Society of Canada. Price 40 cents. This issue again gives us an Ephemeris of the sun, at Greenwich Civil Time. Send your order to;

General Secretary.
3 Willcocks Street,
Toronto, Canada.

"CLIMATIC TRENDS IN THE SERIES OF TEMPERATURE OBSERVATIONS AT NEW HAVEN, CONNECTICUT" ----- Dr. Helmut Landsberg.

"Evidence for slow changes in climatic conditions at many localities with long records has accumulated rapidly in recent years. Sunspot activity is involved here and this work should prove interesting to those interested in things solar.

NITTANY LION



SUPPLEMENT TO MARCH BULLETIN.

Seeing Conditions Report of Miss Beetle. Laramie Wyoming. Altitude
2 1/4" Zeiss Refractor. Blue-black Filter. 7169 Ft.

Date
1948

Broken Year.

	POOR			FAIR			GOOD			EXCELLENT		
	Days	Rb	Ra	Days	Rb	Ra	Days	Rb	Ra	Days	Rb	Ra
Sept.	3	247	458	7	927	1256	12	1624	1972	2	256	324
Oct.	3	309	426	8	1091	1382	13	1584	1954	4	473	612
Nov.	5	566	879	8	772	1000	3	197	225	0		
Dec.	5	288	742	6	534	778	6	726	1007	2	310	355
1949.												
Jan.	7	794	1405	6	471	861	6	637	869	0	---	---
Feb.	8	1096	2014	3	450	647	8	1040	1473	2	259	349
Mar.	2	259	374	7	1079	1479	8	1282	1608	2	372	433
Apr.	1	100	202	3	486	620	4	631	716	4	660	729
May.	0	---	---	7	796	951	6	732	813	7	898	1032
Jun.	3	336	590	4	456	632	7	955	1246	6	653	891
Jul.	1	191	207	7	970	1164	19	2452	2785	1	175	183
Aug.	0	---	---	7	971	1275	17	2293	2597	2	337	405
Total	40	4186	7297	73	9003	12045	107	14153	17295	32	4393	4913

% Poor : 57.4% Fair : 74.7% Good : 81.8% Excellent : 89.4%

Rb.: R Totals of D.E.Beetle Ra: Total of all Observers.

Days with no observations 113.

Seeing Conditions Report of Mr.T.P.Maher. Arlington Oregon.
36 X Refractor

1949																
Poor				Fair				Good				Excellent				
	Z	A		Z	A		Z	A		Z	A		Z	A		
Jan.	8	221	261	370	1	71	87	105	2	227	177	256	3	380	332	428
Feb.	14	---	---	---	3	490	593	740	8	1466	1435	1827	3	300	283	308
Mar.	15	92	90	133	---	---	---	---	6	921	925	1106	8	1450	1318	1653
Apr.	30	134	122	169	2	319	274	386	5	755	701	952	22	3875	3369	4214
May.	25	128	132	161	1	76	62	109	7	802	681	917	16	2513	1879	2601
Jun.	30	---	---	---	2	224	217	301	3	282	255	306	25	3506	3244	4029
Jul.	18	---	---	---	1	165	136	183	5	838	723	932	12	2014	1903	2212
Aug.	29	---	---	---	3	257	315	357	3	391	356	464	23	3460	3171	4015
Sep.	28	---	---	---	2	247	211	259	11	1598	1439	1707	15	2956	2583	3192
Oct.	28	---	---	---	4	633	700	795	8	854	741	978	16	2778	2321	3138
Nov.	18	110	170	208	4	580	534	794	7	1062	939	1291	6	969	758	1055
Dec.	13	1	58	108	129	8	770	1001	1241	4	437	453	615	---	---	---
256 7 743 883 1170 31 3832 4130 5270 69 9633 8825 11351 149 24201																

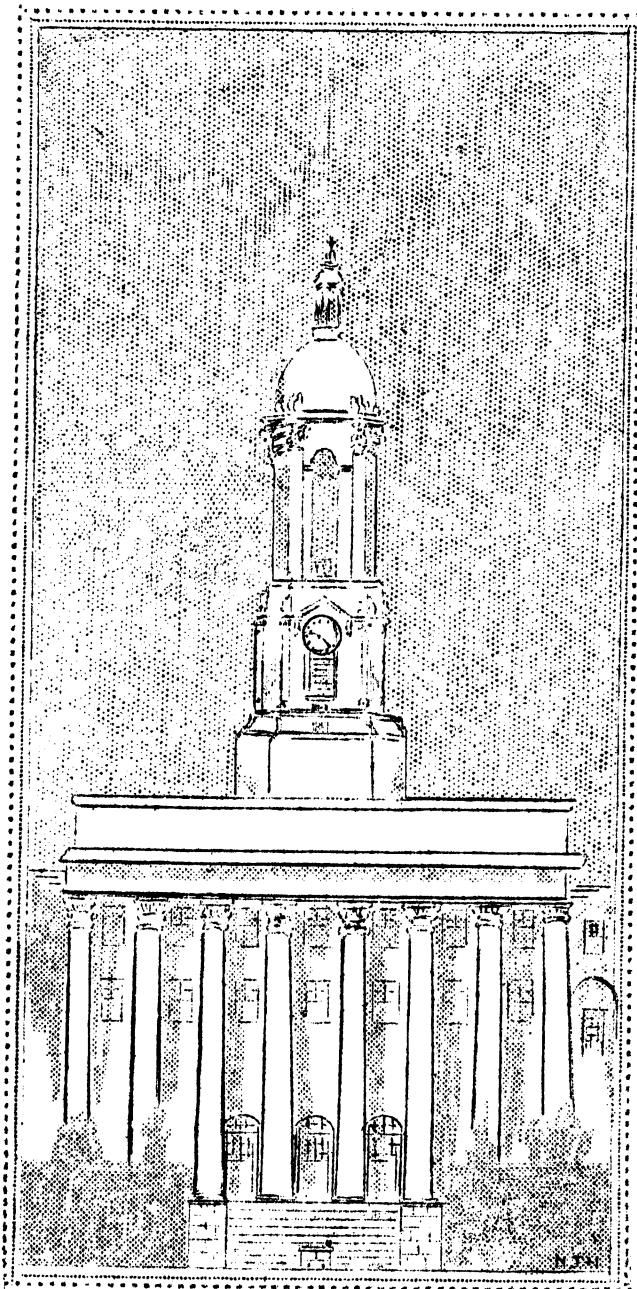
2.7% of Obs.Days 12.1% of Obs Days 27.0% Obs Days 58.2% Obsv Days.

84.1% of Z. No. 92.8% of Z No. 109.2 of Z No. 114.4% of Z. No.
 63.5 of A. No. 72.7% of A No. 84.9 of A No. 90.2% of A. No.

(Spacing of report limited)

February 19, 1950.

A.A.V.S.O. SPRING MEETING.



STATE-COLLEGE-PENNA.

MAY 5-6, 1950