SOLAR DIVISION BULLETIN.

Neal J. Heines, Editor.

| December 1952. | | P.O.Box 2353. |
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| Number 81. | Page-228- | Paterson, N.J. |

The Forty-Second Meeting of the American Association Of Variable Star Observers, held at Harvard Observatory on October 17-18,1952, was one that will long be remembered. The attendance was outstanding. Full details concerning this meeting will be found in the Recorder's report to the Association, which will be published, later, in the Journal of the Royal Astronomical Society of Canada, and also in Variable Comments, which will be distributed, when ready.

The Friday evening Lecture was given by Dr. Donald H. Menzel, Acting Director of the Harvard Observatory, due, to the Retirement of

Dr. Harlow Shapley.

The Agenda for the meetings, listed the Friday evening Lecture as a "Surprise". It was a pleasant surprise to learn, that evening, that Dr. Menzel was to give the Lecture, but, it was not surprising that Dr. Menzel chose as his subject, "Solar Activity And The Progress of the Sacremento Peak Developement"

The world's largest Coronagraph will be located on this peak, and while the progress is slow, it is steady. Dr. Menzel declared that the main portion of the Coronagraph had been set in place. The lecture was supplemented with Kodachrome slides showing the assembling of the Coronagraph, the buildings, the personnel, and, the surrounding terrain. This was followed by a Film of Solar Prominences in Action revealing some new types.

Before we realized it the lecture was over, yet it consumed close

to_two hours, so exciting it was.

The sessions on Saturday began with reports, by the chairman of the various sections of the association, and was followed by the rendition of Papers.

The Solar Papers are listed below. These will be abstracted, published, and distributed later.

- 1. THE AMERICAN SUNSPOT NUMBERS ----- Mr.H.Bondy.
- 2. THE NEW UNITRON TELESCOPES, (Refractors) ---- Mr. H. B. Chase.
- 3. A SUNSPOT CROSSES THE SOLAR EQUATOR----- Mr.T.Cragg. (Read by Mr.William Tifft)
- 4. SOLAR ACTIVITY, 1951, Athens Greece----- Mr.D.P.Elias. (Read by Mr.Wade.)
- 5. NO DISTORTION VISIBLE ON THE SUN'S LIMB Mr.H.Luft.
- 6. SOLAR EYEPIECE FOR SUNSPOT COLOR OBSERVATIONS-B.C.Parmenter. (Read by Mr.Stanley Brower)

- 7. COLOR PHENOMENA IN SUNSPOTS----- Dr.W.O.Roberts. (Read by N.J.Heines.)
- 8. NEW TYPE SOLAR EYEPIECE. (Polarizing) ----- Mr.G.R.Warren. (Read by Mr.Stanley Brower.)

Before the A.A.V.S.O. meetings were held, your Chairman was invited to talk to the Toronto Centre, R.A.S., Canada, on the evening of October 21st., at the Toronto University. The subject of the talk was, "SUNSPOT ACTIVITY FROM A HUMAN POINT OF VIEW"

Shortly after the first invitation, a second was received from the R.A.S. Hamilton Centre, MacMaster University, this was also accepted, for October 22nd., The subject was, "THE ROMANCE OF OUR SUN".

Details concerning these talks will be found, later, in one of the issues of the R.A.S. Journal.

Mrs. Heines joins me in expressing our sincere gratitude for the genuine hospitality manifested by the two Centres. We will long remember the pleasant experiences with our Canadian friends and neighbors.

Before going to Toronto it was our priveledge to visit the Dominion Observatory at Ottawa, Canada, for a short conference with Dr.P.M.MIllman on solar Matters.

Dr.J.F.Heard, and, Dr.Helen S.Hogg, guided us through the David Dunlop Observatories, at Richmond Hill, Ontario. This Observatory is perhaps one of the finest appointed observatories in Canada. Aside from the excellent equipment there, the architecture is truly outstanding.

Solar activity continues to wane, since September Relative Sunspot-Number values have been in the twenties.

Mount Wilson reports that no high-latitude groups have been recorded up to the first of November 1952.

PERSONALS.

Mr.Edward H.Pilsworth. our Battle Creek, Michigan observer visited Solar Division Headquarters for a few days during November. It was a pleasure to have him here. He is a past President of both the Battle Creek and Kalamazoo Astronomy Clubs as well as an ardent observer of Aurorae for Dr. Gartlein and Mr.Donald Kinball. He has observed sunspots for five years, and, as he expresses it, about ten years of looking.

It was a real joy to observe with him. A standing invitation exists for other observers when they are in this part of the land, notice should be given in advance however. The best time for such a visit would be between the 15th., and the end of any month.

PERSONALS (Continued).

We are pleased to have the observations again of Mrs. Dorothy Beetle, one of our Standard Observers. Mrs. Beetle, as we mentioned in a previous bulletin, spent a few months in South America.

Mr.S.C.Venter of Pretoria , South Africa, was commended for his reports on photosphere activity, in the JOURNAL of the BRITISH ASTRONOMICAL ASSOCIATION. (Vol.62., No.8; October 1952).

Anyone interested in the two eyepieces, as mentioned in the list of papers on pages 228-229 of this issue should write directly to the makers of same, the addresses are below.

No.6, SOLAR EYEPIECE FOR SUNSPOT COLOR OBSERVATIONS.

Mr.B.C.Parmenter.
Northwestern Observatory,
6718 East Seventh,
Route 8, Spokane,
Washington.

No.8. NEW TYPE SOLAR EYEPIECE. (Polarizing).

Mr.George R.Warren. R.F.D. Number Two, Westchester, Penna.

STATISTICS.

* Group counting reference for observers.

Predictions of smoothed monthly sunspot-numbers for the next six months are as follows:

(Continued next page)

Nov. 25

Feb. 22

Dec. 24

Mar. 21

Jan. 23

Apr. 20.

Released by Prof. M. Waldmeier, Director, Federal Observatory, at , Zurich Switzerland, and transmitted, via, Short Wave Radio, by the Swiss Broadcasting Corporation.

PUBLICATIONS.

I. "A PROCEEDURE FOR THE DETERMINATION OF THE VERTICAL DISTRIBUTION OF THE ELECTRON DENSITY IN THE IONOSPHERE."

J.M.Kelso. (Highly Technical)

- 2. THE SOLAR CONTROL OF THE E and F1 LAYERS AT HIGH LATITUDES.

 J.W.SCOTT.

 (Technical)
- 3. GEOMAGNETIC AND SOLAR DATA ----- Prof.M. Waldmeier.
- 4. PROPOSED RADIO TELESCOPE AT JODRELL BANK, MANCHESTER ENGLAND. (Will be the largest in the world)
- 5. POSSIBLE IDENTIFICATION OF A SOLAR "M" REGION WITH A CORONAL REGION OF INTENSE RADIO EMMISSION.

(Maxwell)
R.A.S. <u>OBSERVATORY</u> 72, No.866, 22-26, '52.

- - Items above, 1 through 4 are to be found in the JOURNAL OF GEOPHYSICAL RESEARCH. Vol 57, No.3, Sept. '52.
- 7. THE ROLE OF QUIET DAYS IN THE MECHANISM OF GEOMAGNETIC ACTIVITY.

 Nicholson and Wulf.

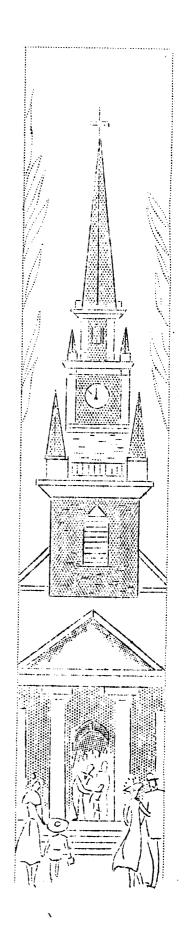
 Publications of the Astronomical Society of the Pacific.

 Vol.64, No.380 October 1952.
- 8. The 700 Ft. Aerial which receives radio waves from individual parts of the sun's surface. (Located near Sydney Australia.)

 The Scientific Monthly. Vol. LXXV., No. 4, Oct. '52.



MERRY Christmas



Monthly Means Ra-22.5 Rz-23.7

American SunspotNumber
Reductions
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A.A.V.S.O Solar Division

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