

SOLAR DIVISION BULLETIN.

Neal J. Heines, Editor.

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560 Broadway  
Paterson N.J.

All observers of the AAVSO Solar Division are hereby invited to attend the Spring Meeting of the AAVSO, which is to be held on Friday and Saturday, May 16-17, at Hood College Observatory, Fredrick, Maryland. On Friday evening there is generally an interesting gathering, or opportunity to inspect the observatory the director of which is Miss Leah B. Allen. The Council Meeting is usually held at 4:00 P.M. on Fridays. The big meeting is held on Saturday May the 17th at about 10:30 A.M. for the first session and 1:30 for the afternoon session. Information concerning accommodations will be given in the April Bulletin.

All Solar Division Papers must be in the hands of the S.D. Chairman by April 15th in order that a schedule can be arranged.

Observers and others who are not members of the American Association of Variable Star Observers are invited to join the association. Dues are \$3.00 per year and should be sent to Mr. Leon Campbell, Harvard College Observatory, Cambridge 38, Mass. In your letter to Mr. Campbell, indicate, whether your work is only solar or that you wish to participate in Variable Star Work also.

The migratory season of Birds will have started by the time this reaches you. We have received several requests for the instructions governing data from observations and therefore repeat the important ones which were given in our March 1946 Bulletin pp. 13 and 14.

Observer -----	John R. Madison
Date -----	March 30-1947
Latitude and Longitude -----	39°30' N. 74°20' W.
Place -----	Lakehurst N.J.
Condition of Sky -----	Clear, no clouds
Wind -----	From north, gentle
Time started -----	2:05 P.M. EST
Time finished -----	2:45 P.M. EST
Number of birds seen going in same general direction (with respect to ground )	30
General Direction of bird flight	N.N.E.
Approximate altitude of sun ( or moon )	45°

Remarks (suggested)

Example: Sun observed through telescope (not projected). Birds all moving fast. Seemed to be about the same size (small). One bird not included above, was going east; it was a large slow moving bird  $2\frac{1}{2}$  sec. transit. Most birds (about 25) passed from 2:05-2:20 p.m. only a few at that

The total time interval included on one sheet should be no more than one hour. A separate sheet should be used for each hour's observation. If observations are interrupted, a separate sheet should be used when they are resumed, and the data obtained before interruption should be recorded on first sheet. Thus, each sheet of data is for a period (continuous) of observation. Any note which the observer thinks might be of help later on in evaluating the data should be placed under Remarks. For instance, An estimation of the height of birds is helpful.

Dr. Lowy to whom the observations are forwarded has this to say, " The matter of making observations of birds crossing before the lunar or solar

discs seems to me to be the means whereby we can solve some of the greatest problems in bird migration. - - - - - I cannot overemphasize the importance of getting others to cooperate in as many localities as possible

Send you observations of migratory birds to your chairman along with your monthly sunspot report at the beginning of each month.

The time has come again to ask for observer and telescope photos to be placed in our Album at Harvard College Observatory. Send to Chairman Soon. Incidentally we have a very fine and deeply interested observer located in an area far, far from here. He is Reverend Herbert Kitley, Crawford Street, Gosford, N.S.W. Australia, who would greatly appreciate these kind of photos. If you have an extra one beside those you have already or are going to send by all means send some to him. They will be greatly appreciated.

Several very interesting Solar articles have appeared this past month in some of the journals, they are as follows:

1. The Absence of Sunspots During the 17th Century ---- Dr.Helen S.Hogg.  
Royal Astronomical Society of Canada Dec 1946 Issue.
2. The Absence of Aurora in the 17th Century  
Same journal and Author January 1947 issue.
3. The Astrophysical Observatory of the Smithsonian Institution Dr.C.G.Abbot.  
(concerning measurements of solar constant)  
Leaflet No 216 Astronomical Society of the Pacific. San Francisco Cal
4. Variations of Sporadic-E Ionization observed at Washington D.C.

M.Lindeman Phillips.

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1530 P Street Washington 5 D.C.

If at any time you read an article concerning our work which you do not find listed in the S.D. Bulletin and you think that it would be of interest to your fellow observers do not hesitate to write your chairman who will include it in the following issue.

From time to time we offer this bulletin to those of you who have some solar observing instrument or accessory for sale or trade do not hesitate to make use of this offer.

We received this week the following from Mrs.Lorna Allin of 1301 6th., Avenue, North, Seattle 9, Wash. For sale; One 6" Solar Mirror, eye-piece and prism.

Mrs. Allin due to Arthritis is no longer able to use this equipment and desires to dispose same to some worthy observer. If you are interested communicate directly with Mrs.Allin at the above address.

Before their eyes in sudden view appear  
The secrets of the hoary deep, a dark  
Illimitable ocean, without bound,  
Without dimension, where length, breadth, and height,  
And time and place are lost; where eldest Night  
And Chaos, ancestors of Nature, hold  
Eternal anarchy amidst the noise  
Of endless wars, and by confusion stand:  
For hot, cold, moist, and dry, four champions fierce,  
Strive here for mastery, and to battle bring  
Their embryon atoms.

\* -- Milton, Paradise Lost.