

A.A.V.S.O.

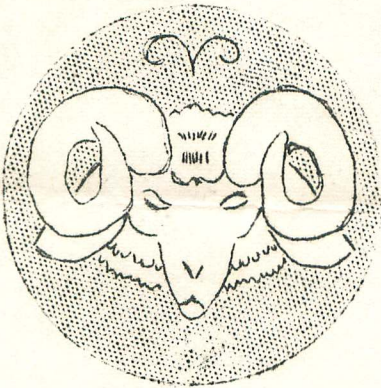
SOLAR DIVISION BULLETIN.

A.A.V.S.O.

Neal J. Heines, Editor.

March 1949.
Number 40, Page 93.

560 Broadway.
Paterson 4, New Jersey.



" When coughs are changed to laughs,
and when
Our frowns melt into smiles of glee,
And all our blood thaws out again
In streams of ecstasy,
And Poets wreak their roundelay,
The SPRING is coming round this way."

James Whitcombe Riley.

Just a few weeks ago Harvard College Observatory honored our AAVSO Recorder, Mr. Leon Campbell, with a dinner, celebrating his Golden Anniversary with that Institution. What an enviable record! , and,

WHAT A MAN !!!

We beleive we hear "Leon" say with Kipling ;

"If there be good in that I wrought
Thy Hand compelled it, Master, thine-
Where I have failed to meet Thy Thought
I know, through Thee, the blame was mine. "

Solar activity continues on a level commensurate with that of the past few months, exhibiting major groups and spots, and, in addition , unusual phenomena.

We received the following letter from Dr. W.O. Roberts early in February;

You will be interested to know that on the 17th of January we detected a very remarkable phenomenon at the east limb of the sun. It was the brightest occurrence of activity of the yellow coronal line observed since the establishment of our station. The yellow coronal line activity was greater than the normal activity of the green or red coronal lines. This yellow line activity was associated with an unusual active prominence, and with a sunspot. I do not know whether the sunspot was of abnormal activity. I had hoped there would be some information from the contributing amateurs regarding this particular spot. But no such records have been forthcoming. Of course, any records which come after the announcement of the remarkable associated phenomena will be of low significance. However, this yellow line activity was the most remarkable since the establishment of our project.

Just now I have heard that associated with this yellow line observation, apparently, has been the largest magnetic disturbance in eleven years!

This gives you an idea of the degree of abnormality that must have been associated with this particular group. -----.

Sigened; W.O.Roberts.

The reason we have published this letter, is not alone to let you (observers) know about the occurance of the pehenomena but to stress upon those observers who have the necessary time for such observations the importance of the Roberts Project. To those of you who can meet these conditions we seriously invite consideration. If participation is anticipated, please write this office first.

Weather conditions during January were still bad, generally, through out the United States. Other observers, notably one in England, where it was so cold last year, writes; " Our weather has been vey mild and spring flowers are in bloom". February, so far, is not a great deal better here. This is unfortunate because of the great activity that prevails on the sun at this time.

Wanted To Buy, and, Wanted to Sell.

Wanted; A nine to twelve ince Reflecting Telescope, complete, with all acessories. Write; Mr.Chester L.Brown, W.1117 14th.,Ave., Spokane, Washington. Communicate Direct.

Wanted To Sell; A 3" Mogey Refractor Telescope, Alt-Azimuth Mounting, Tripod, and Three Eyepieces. Good as new, Write Direst to Mr.Edward Francisco, 88 First Avenue, Little Falls , New Jersey. The right price for a quick buyer.

STATISTICS.

The total number of observed groups for the month of January was 39.
The " " " Days with sunspots for January was ----- 31.
Zurich's Provisional Relative Sunspot Number for January was -- 119.4.
Mean (monthly) Sunspot Area (U.S.Naval Observatory) January 2572

* The highest Sunspot Group Number as assigned at Solar Division Headquarters on February 18th., was 77. It was a single spot observed at 21:30 U.T. , on the edge of the East Limb, North Belt.

*This information is given in order that the Solar Division observers may check their Group Counting each month.

During the latter part of 1947 and the early part of 1948 a committee of the Astronomical League looked into the possibility of a League Handbook. Contact was made with several groups as to the apparent requirements of such a work. After a list was compiled, it was found that practically all of these requirements could be fullfilled by the use of the Royal Astronomical Society of Canada's existing Handbook. Contact was made with Dr.Frank S.Hogg , one of the editors, for additional data to be included so that we could avoid duplication of printed matter while at the same time make good use of our good Canadian neighbor's publications. We are very grateful for the additional data as provided by the R.A.S.C. Editors and especially to Dr. Hogg for his efforts in our behalf. On page 80 of the Handbook one finds an Ephemeris For Physical Observations Of The Sun. The data is given in intervals of aproximately five days. This is very useful information for the Solar Division. Copies can be obtained at about forty cents. Write General Secretary, 3 Willcocks St., Toronto, Canada.

PUBLICATIONS.

"A SOLAR CAMERA" ----- B.C.Parmenter.
SKY AND TELESCOPE February 1949 Issue.

We should have a few of these Camreas in
our Solar Division.

"Reports Of Observatories" ----- Astronomical Journal
December Issue, Contains much Solar information from many
observatories and other useful information, of interest.

"SOLAR ENERGY" ----- Science Weekly
Issue of January 21, 1949 Vol. 169.
Contains many figures you will wish to
remember. Covers investigations and possible
future plans and possibilities.

Written By, Farrington Daniels. U. of Wisconsin.

"Observations Of The Rotations Of Sunspots" Francis P. Morgan.
Journal of the Royal Astronomical Society Of Canada.
November - December Issue 1948.

HERE IS A PROJECT, UNFINISHED, THAT SHOULD BE CARRIED ON
BY A SOLAR DIVISION OBSERVER. Very, Very, interesting and
a very worth-while undertaking. We congratulate the author.
Who will volunteer ? Write this office.

"Solar And Economic Relationships" ---- C. Gartia-Mata & F.I. Shaffner.
Reprinted from the Quarterly Journal Of Economics, Harvard University
Nov. 1934. Procurement now, Foundation For the Study Of Cycles,
Riverside, Conn. About 50 cents, Second Edition.
The American Ephemeris for 1950 is now available at U.S. Printing Office.

A.A.V.S.O. SPRING MEETING May 27-28-1949 Ladd Observatory, Brown Uni-
versity, Providence, Rhode Island.
Looks like a very interesting session, more of this later.

SOLAR DIVISION LIBRARY.

In operation Now !!!!! A Supplement to this Bulletin list the
present books and reprints available. The rental period is two to
three weeks. The fee, Postage both ways. For all Details write to
Mr. Leon Campbell, Harvard Observatory, Cambridge 38, Mass.
Our Solar Division Library is now part of the AAVSO Macateer Library,
that is, it is a section of it, to be used principally by the obser-
vers of the S.D. and the Research Affiliates. You can of course, if
you are doing variable star work, draw on the macateer library for
other astronomical books and also as a SOLAR DIVISION observer.
A revised list of volumes is now under preparation.

We are exceedingly grateful to Mr. James Hillebrand for all the
work he has done with the establishment of the S.D. Library. We are
pleased to mention also the efforts put forth by our observer and
AAVSO President Mr. David Rosebrough as well as all the help from
Mr. Leon Campbell the Recorder of the AAVSO.

Thanks also to those who have contributed in cash, and books. We
still have a fund of \$24.00 to draw from, given to us by the AAVSO
Council. Those who indicate willingness to contribute in the Survey,
can now do so. Send Books to Campbell, Cash to Heines.