

October 1949.
Number 46. Page 107.

560 Broadway,
Paterson, 4, New Jersey.

A SALUTE!!
TO
LEON CAMPBELL
A.A.V.S.O. RECORDER EMERITUS.

ONE SHIP SAILS EAST, ANOTHER WEST,
WITH THE SELFSAME WINDS THAT BLOW,
'TIS THE SET 'O THE SAILS
AND NOT THE GALES
THAT DECIDES THE WAY TO GO

LIKE THE WAYS OF THE SEA
ARE THE WAYS OF FATE.
AS WE VOYAGE ON THROUGH LIFE.
'TIS THE WILL 'O THE SOUL
THAT DECIDES THE GOAL
AND NOT THE CALM OR THE STRIFE.

anon.

On October 14th., and 15th., next, the fall meeting of the AAVSO will be held at Harvard College Observatory. This will not be just an ordinary meeting, for we are to gather together to honor LEON CAMPBELL, our beloved RECORDER EMERITUS.

One will find there, at this time, astronomical dignitaries, amateurs and the laity alike.

There will be some outstanding events in addition to the regular meeting items. It will be a meeting that will long be remembered, for, in addition, we are to welcome our new RECORDER.

A goodly number of Solar observers will be present who will enjoy one another's company, exchange of ideas, and other solar information.

Dr. Walter Orr Roberts' Project is progressing slowly, but nicely. Mr. R.N. Buckstaff of Oshkosh, Wisconsin sent in a report to Solar Division Headquarters on some "dark filamentary markings" recently. These were forwarded to Dr. Roberts at Climax, Colorado. In Dr. Roberts' letter (c.c. to Heines) to Buckstaff a few questions were asked which bear repetition here, for future reference.

"The markings that I have seen have usually been rather faint in contrast, and relatively sharp in appearances. I notice that you speak of your phenomena as "cloud-like."

1. What would you say about its degree of contrast with the surface?
2. Did you have other people look at it?
3. Did it seem to have sharply defined edges or were the edges rather rough and hazy?
4. Did you make any particular notation of the appearance of granules in the vicinity of the area, or of faculae?

"--- It will be most interesting to see if additional observations of this are reported by the Solar Division observers, and also we hope within a short while to have a program of our own underway which will seek photographic confirmation of many of the observations made by Solar Division people."

We can use additional observers in this important Project. Write Solar Division Headquarters.

We heard from several of our West Coast observers who attended the Los Angeles Convention. It appears as though an impromptu Solar conclave was held and enjoyed by those who participated.

We received recently from Prof. Waldmeir, Director Federal Observatory, Switzerland, an Abstract which will be of interest to Solar people, entitled;

"Tetrapolar Sunspot Groups."

"It is shown that sunspot groups are generally members of a tetrapolar solar disturbance." Such a disturbance consists of four sunspot groups occurring at almost the same time in the following positions on the sun's surface; (β, λ) , $(-\beta, \lambda)$, $(\beta, \lambda + \pi)$, $(-\beta, \lambda + \pi)$, denoting heliographic latitude and longitude.

This abstract came to the attention of H. Leinbach, also; He writes, "a glance through my data shows that development in opposite latitudes (some longitude) is more common than pure coincidence. Do you have more information on this?"

Our reply was that we do not, but we will include any additional data as it becomes available.

AAV.S.O. Recd 10/4/49

Statistics for July

The total number of observed groups for the month of July was 35.
" " " " days with sunspots for July was ----- 31/
Zurich's Provisional Relative Sunspot Number for July was----125.8.
Mean (monthly) Sunspot Area (U.S. Naval Observatory) July was 11,627.
*The highest sunspot Group Number as assigned at Solar Division Headquarters on July 31st was 295. It was a small group of 2 spots in the north belt near the east limb.

Statistics for August

The total number of observed groups for the month of August was 39.
" " " " days with sunspots for August was ----- 31.
Zurich's Provisional etc.----- 130.9
Mean (monthly)--etc. -----1,736
*Highest Group Number --- etc. on August 31st was 334. It was a small group of 5 spots in the north belt, 2 days past the central solar meridian. It followed a unipolar spot 4 days past the central solar meridian.

*This information is given in order that the Solar Division Observers may check their group Counting each Month.

Special - Predictions of the smoothed monthly sunspot numbers for the coming months since last issue of our Bulletin.

August	120	November	111
September	118	December	107
October	115	January	102 (1950)
February	98(1950)		

M. Waldmeier.

PUBLICATIONS

Science, August 12, 1949; Vol. 110

Solar Eruption of May 10, 1949. A.H. Shapley and R.M. Davis, Jr.
An interesting paper on "An outstanding Solar Flare".

Sky and Telescope, August 1949; p 245

Terminology Talks -- ----- J. Hugh Pruett

"Sunspot cycles" and "Sunspot Numbers"

Good review material.

Scientific American, August pp 46-47

"Galileo" --- ----- I. Bernard Cohen

Includes some of his solar work.

Publications of the Astronomical Society of the Pacific, Aug.; Vol. 61 #361

"The Production of Geomagnetic Activity" Wolf-Nicholson

Contains interesting solar relationships pp 166-174'

"The Eruptive Prominence of June 3-4 1949" Edison Pettit

Very interesting to Solar people.

"Summary of Mount Wilson Magnetic Observations of Sunspots" for May and June 1949 pp 191-199.

Each issue of this publication contains this report and is useful to solar people.

For subscription information write

Astronomical Society of the Pacific

Palo Alto, California.

PUBLICATIONS (continued)

The Journal R.A.S. Canada

May & June 1949

"Solar Radio Noise"

- -Corington - Medd

Scientific American

Sept. Issue

"Radio Astronomy"

--- Grote Reber

Good Material

Science Weekly Newsletter

August 20th Issue p. 118

"April Sunshine Was More Intense than Summer Rays"

As recorded by G.E. Radiation Meter

SKYSHOOTING

--- - Newton & Margaret Mayall

Camera Fans!! Get this! \$ 3.75.

Ronald Press 15 E. 26th St., New York, 10, N.Y.

Additions & Corrections of Membership List

Kindly change the spelling (the letter u to x) in the name H. LeVaux.

An address change for Mr. Herbert Luft. It is now;

42-10 82nd St., Apt. 4 G, Elmhurst, Long Island, New York

Next to Mr. L.L. Brennan's name, please place the letter P in the method column.

Change Mr. E. Pierson's instrument type to RL and the objective is stopped down to 2 inches.

Please add the following to your list:

Kenneth Stryker - visual; 6" RL; SS; GL.

H.B. Chase - - visual & projection; 3" RF; SS.

We would like the Observers to check their classification for address information, etc. If it is possible, please send any changes of address in advance. Also, please write Solar Division Headquarters when any instrument changes are made or contemplated.

With this Bulletin we include a supplement containing information and description of Auroral Forms. Keep this handy for future reference. For the present it is suggested that the observers participating in this work rule up their own forms as below.

A.A.V.S.O. Monthly Aurora Report													
Indicate color by letter Y, R, or G in blank spaces													
Date	Local Time	Ray Type											
7/49	E. S. T.	G	HA	HB	PA	DS	PS	RA	RB	D	R	C	F
16	12 M - 2 A.M.	✓											
26	3 - 5 A.M.	✓											
Remarks:													
No colors observed													
Observer <u>M. Beardsley</u>													

Send all completed reports to Mr. R. Seely, 969 Park Av, N.Y., 28, N.Y.