The Bulletin of the Webster Groves Nature Study Society

Webster Groves, Mo.

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July 1931

Birds listed at Horse Shoe Lake, Ill. May 16 and 17 1931. Sixty nine birds were listed, many of them seen in flocks of 30 and 40. There was a Sand-hill crane flock of

Cardinal

Killdeer

House wren

Kingbird

Titmouse

Pintail Duck

American Coot

Herring Gull

Bank Swallow

Carolina Wren

Ruddy Duck

Cormorant

Wood Pewee

Black Heron

Screech Owl

Cliff Swallow

Chikadee

Chewink

Cowbird

Dove

Catbird

Flicker

Barn Swallow

Phoebe

Crow

Greater Yellowlegs in flocks. Least Sandpipers in flocks. Semipalmated Sandpipers. 50 Black Crowned Night Herons.

Black and White Warbler White Throated Sparrow .. Scarlet Tanager Red-winged Blackbirds Meadowlark Purple Martin Field Sparrow Song Sparrow Yellow Warbler Magnolia Warbler Purple Grackle Great Blue Heron Warbling Vireo Prothonotary Warbler American Goldfinch Tree Swallow Crested Flycatcher Downy Woodpecker

American Bittern Redstart (many) Ovenbird Tennessee Warbler

Blue Jay Green Heron Sora Rail Baltimore Oriole Ca olina Rail Brown Trasher Indigo Bunding Cedar Waxwing Hairy Woodpecker

Savannah Sparrow Blue-winged Warbler Red-headed Woodpecker Chestnut-sided Warbler Maryland Yellow-throat

A Night Hawk was seen in flight, turn over in the air, dip, touch the water and rise again,

On the island were found masses of the Daisy Fleabane: Lso the Golden Ragwort (Senesio Aureus), that seen growing at the water's edge being about 3 tall. Amsonia tabernaemontana was very beautiful ,blue, and masses of it.

28 members enjoyed the trip. Anne A. Jones.

Work for Amateur Astronomers.

The general opinion among "stargazers"is that there is no opportunity for them to do useful work in astronomy. They believe that the million-dollar outlays of the great observatories entirely shut off all fields forrthbung This popular opinion is utterly false. There are at least three lines of endeavor that are left almost entirely in the hands of the amateur astronomers. (Cont. next schuch

They have to do with three of the many unsolved mysteries of the sky.

Most important of the three is the observation of long period and irregular variable stars, Dr. Harlow Shapley, Director of Harvard college Observatory, believes that these stars are the "key to stellar evolution" and that when their mysteries are explained we shall have pushed back our knowledge of the "life histories" of the stars to their real beginning as such there are hundreds of these variables and many thousands of observations must be made of them in order to determine their characteristics accurately. Only a few of these observations can be made by the great observatories, so amateurs Black Tern must make the bulk of them. Those gaged in this work are members of the American Association of Variable Star Observers(with headquarters at Harvard Observatory) which, not as its name implies, has members in many foreign countries as well as all parts of the United States and Canada. The work is quite interesting and some members so enthusiastic that they report several thousand observations in a single year.

The connection between comets and metacrs is not yet fully understood and many meteor records (the more thebetter) must be made to aid in advancing knowledge of these ceestial space-wanderers. The American Meteor Society, Flowor Observatory, Upper Darby, Pensylvania is the clearing house for meteor observations. There are many people interested in this work. Some of those who observe more frequently than others turn in a record of more than a thousand meteors each year. It may suprise and interest some Nature Notes readers that the Astronomy Group is planning to make meteor observations a part of its program this summer.

May we suggest, if you are at all interested, that you attend the coming Astronomy meetings and outings so as to get in on this interesting part of our program.

Of all astronomical phenomena the Zodiacal Light receives the least attention on the part of both professional and amateur astronomers. Almost nothing new has been advanced as to the true nature of the Zodiaska Light since Barnard published a few papers on the subject away back in the latter part of the last century. At the prosent time Rev.W.E.Clanville of New Market, Maryland, is taking the lead in the study of this phenomenon. He has sec-cured the cooperation of the two observatorics in the eastern hemisphere (one in Japan, the other in New Zealand) but many more points of observation are needed. It is rather strange, although the Zodiacal Light is the easiest phe-(Cont, next page.)

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nomenon in the sky for the amateur to
observe, that professionals should be
the ones to echibit the most interest.
Our future knowledge of this apparent
"tail" of the earth may depend upon the
number of amateurs who will take interest in it.

Reports and records of amateurs' observations of all these phenomena are regularly published with due credit to the individual observers who make them.

An Enlightened Star-Gazer.

Butterflies And The Botanist.

distributed as to be practically cos mopolitan; others are found plentyfully
over large areas restricted only by
their habits. A few are found only in
very restricted localities and so infrequently that they are classified as
"rare". It is this group which makes
butterfly collecting interesting, in
that the collector is always in hopes
of finding such specimens. A number of
such butterflies are to be found in St.
Louis County and lucky is he who finds
an ocasional specimen. Among these
may be mentioned: Argynnis idalia, Fhyciodes ismeria, Thecla m-album, Anthrocharis olympia, Euremia mexicana, Incaena isola, Melitaea phaeton, and

Some of these species may be stragglers from surrounding regions where they probably are common. The fresness of many, however, justifies us in assuming that such have bred here and a knowledge of their food plants will often help one to locate them, providing, of course, that we appear on the scene at the right time. The very close relationship of butterflies to plants (all of our butterflies but one are vegetable feeders), forces the entomologist to become somewhat of a botanist, and when we study butterflies and plants together one must of necessity become a student of geographical distribution of both. Thus, we know that the monarch (Anosia plexippus) feeds only on milkweed. Therefore, wherever the monarch is found we are sure find some species of Asclepias growing there. This relationship should be of interest to the botanist and undoubted ly if the botanist and entomologist worked together our knowledge of geographical distribution of plants and insects would be much advanced.

As an example we find Melitaea phaeton has been taken in St.Louis Co, on rare occasions. This butterfly is known to feed only upon one plant, Chelone glabra, and the manner in which its larva adapts itself to the life-history of this plant is a very interesting one.

Cont.next collumn.

We entomologists do not seem to have located this plant here and would like to hear from the botanist concerning it. Perhaps this butterfly indicates a here-tofore unknown plant in St.Louis Co., or we have more to learn concerning the life history of this butter-fly.

Edwin P. Meiners.

A Word From The Lodge.

Visit The Lodge-- and when you do, kindly register in the book which has been provided for that purpose.

Amateur Photographers--take pictures at and near the lodge, and when you do, if you will have an extra print made of each of the more interesting ones, to paste in cur photo book, it will be much appreciated by all.

The Lodge Unit.

An Interesting Case Of Sitotropism.

In biology, the reaction which plants and animals exhibit to the influences of various external substances are called tropisms. Thus, the roots of a plant are positively geotropic, while its stems and leaves are negatively geotropic. The case of a moth flying into the light is called heliotropism. Likewise when a caterpillar goes up a tree until it reaches the leaves upon which it feeds, this influence which causes it to eventually find its proper focd is called sitotropism.

Some years ago I was collecting butterflies in an old meadow, Here, in a low spot where the weeds were thick, were growing a number of plants of the night shade family. Feeding upon these I found the caterpillar of the Hawkmoth, Protoparce Quinquemaculata. This caterpillar, also known as the tobaco worm, grows to be quite large and can consume a goodly quantity of its foodplant. One or two such plants would not be sufficient to bring it to maturity. The plant supon which it was feeding were scattered so that many were at least three feet apart with many tall weeds between. Imagine a human being lost in a jungle forest with the only tree from which he could obtain edible food scattered at intervals of a mile apart, How often would he be likely to find this particular tree. Yet the evidence showed that these caterpillars had found a number of their foodplants and were thriving.

Edwin P.Meiners.
NOTHOLAENA DEALBATA(Pursh) Kunze

On May 31 st.1931 I saw for the first time the magnificient little cloak fern Notholeana dealbata. Clusters were growing out of crevices and attached to the sides of projections of sponge-like limestone rocks near Price hollow, one half mile west of the Lodge.

Mr.Kellogg of the Missouri Botanical Garden identified it and said there was no previous record of it ever being found this far north, and that it

is rare in southern Missouri.
We will have a picture of it in next issue.

Pierre A Vogel.

Webster Groves Nature-Study Society

A BRANCH OF THE AMERICAN NATURE-STUDY SOCIETY

(Organized in 1920)

Webster Groves, Mo.

MISS ANNE A. JONES Secretary-Treasurer 690 Bonita Avenue Webster Groves, Mo. (WEbster 831-J)

Dr. O. W. BRANDHORST

MISS NELLIE MATLOCK

ANNOUNCEMENTS FOR JULY - 1931

FIELD TRIP

SATURDAY/SUNDAY JULY 17/18: Week-end Trip to Nature-Study Lodge. Bring star maps, telescopes, field glasses, flash lights, blankets, cots and - oh! yes, - food.

GROUP MEET INGS.

Vice-President HAROLD I. O'BYRNE

President

Vice-President

MRS. JASPER BLACKBURN

ASTRONOMY, FRIDAY JULY 10, 8 PM, at the Jones residence, 690 Bonita Avenue, Webster Groves. Flower Exchange Secretary Mr. Mueller will tell about Galactic Star Clusters and Mrs.

Dr. Irene Blanchard Mueller about Globular Clusters. Health Secretary

MRS. WILLIAM PICKENS Junior Secretary

Mrs. A. F. SATTERTHWAIT Nature-Melody Secretary

GROUP CHAIRMEN

STUART L. O'BYRNE Astronomy

Botany

MISS DOROTHY BOYER Entomology

MRS. ARTHUR FEAGER Geology

PIERRE A. VOGEL Ichthyology

DR. EDWIN P. MEINERS Microscopy

ARTHUR E. MUELLER Nature Photography

MISS NELLIE MATLOCK Ornithology

R. C. LANGE NATURE NOTES

DR. EDWIN P. MEINERS

Camp Director

PHOTOGRAPHY, MONDAY JULY 13, 8 PM, at the Bradley residence, 7111 Nashville Avenue, Richmond Heights. Mr. H. M. Sohrmann will tell about the Leica Camera and accessories, and show some of his pictures. Mr. Bradley will describe his "home-made enlargers".

ENTOMOLOGY, MONDAY JULY 27, 8 PM, at the Satterthwait residence, MISS EDITH E. GLATFELTER 118 Waverly Place. Dr. Devrient will give his postponed talk about "Mandragora", a sleeping " . draught from ancient times; Mr. Anthony M. Ward will speak on "Termites" and Mr. Satterthwait on "Sunflower Insects" with a discussion of the effect of the drouth on insects.

: Contest leaders and contestants are requested : to meet at the Laboratory Sunday July 12, 2 PM

with Mr. Satterthwait.

JUNIORS: GIRLS will meet on Wednesday July 1st and 15th; BOYS will meet on Thursday July 2nd and 16th; A FIELD TRIP for all on Saturday July 25th; Time, place and other details to be announced by phone.

Anne A. Jones, Secretary