

ON SOME NEW ENGLAND HETEROPTERA.

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Mr. C. A. Frost, of Framingham, Mass., for some years past has most kindly favored me with his catch of Heteroptera from New England. Last year and early this spring, he sent me several small lots, which make up in interest for what they might appear to lack in quantity. And lately, he sent me his Maine catch.

His specimens are always accompanied by data; and to these I add what comment may appear necessary regarding each species. The arrangement of the families, for convenience in reference, follows the Van Duzee Catalogue; and that of the genera and species follows Hemiptera of Connecticut, our standard manual for the Heteroptera of the North Eastern United States.

The Massachusetts records follow:

Amnestus spinifrons Say, 1 specimen from Southboro, May 5, 1928, a new Massachusetts locality.

Dendrocoris humeralis Uhler, 1 specimen from Natick, May 27, 1928, another new locality for the state.

Aradus cinnamomeus Panzer, 1 specimen by sweeping, Natick, July 15, 1928. This is the first New England record of the species from a definite locality, although Parshley gives it as from "Mass." in Can. Ent., LIII: 235 (1921). The manner of capture also is odd, as the specimen is a stenopterous male.

Neides muticus Say, 1 specimen from Middlesex Fells, July 31, 1928, a new locality for the state.

Jalysus spinosus Say, 2 from Nantucket, September 11, 1928, another new locality.

Ischnorhynchus resedae Panz., Framingham, November 11, 1928; sifted.

Cymus angustatus Stål, Framingham, March 24, 1928; sifted.

Cymus discors Horváth, same data. New locality for the State.

Hypogeocoris piceus Say, 1 from Natick, October 12, 1928, sifted from piles of dry grass and weeds. New locality.

Crophius disconotus Say, 1 specimen, sifted, Natick, October 14, 1928. Another new locality.

Myodochus serripes Olivier, 1 specimen, same data; also a new place.

Orthaea basalis Dallas, 5 specimens, Natick, October 12, 1928; also sifted from grass piles; another new locality for the State.

- Zeridoneus costalis* Van Duzee, 1 only from Natick, October 14, 1928. Also a new locality for the State.
- Antillocoris pallidus* Uhler, 2 specimens, sifted, Framingham, March 24, 1928.
- Drymus unus* Say, Natick, October 12, 1928, 1 sifted from grass piles. Another new State locality.
- Xestocoris nitens* Van Duzee, same data; also a new locality.
- Corythucha mollicula* O. & D., 1 from Middlesex Fells, July 31, 1928; a new locality.
- C. cydoniae* Fitch, 3 specimens, same data; another new locality.
- C. elegans* Drake, Natick, November 12, 1928; also sifted from piles of grass. This appears to be not only the first Massachusetts record, but also the first New England record.
- C. arcuata* Say, 1 from Middlesex Fells, July 31, 1928, another new locality for the State.
- C. pergandei* Heidemann, 8 from Framingham, May 5, 1928. A new place.
- C. marmorata* Uhler, 1 from Natick, July 4, 1928, which is another new locality.
- Leptobyrsa rhododendri* Horváth, 1 from Cambridge, Mass., collected by Dr. J. C. Emerton; a new locality.
- Gelchossa heidemanni* O. & D., Natick, June 10 and July 29, 1928; in quantity on *Baptisia tinctoria*, as usual; but a new locality.
- Physatocheila plexa* Say, 1 from Sherborn, July 7, 1928. This appears to be a new record for the State, for Parshley, in his Hemiptera of New England gives it as found only in Rhode Island, although Van Duzee in his Catalogue lists it from Maine.
- Ploiariodes errabundus* Say, 1 from Nantucket, September 11, 1928. This is a new Massachusetts locality.
- Metapterus annulipes* Stål.
- M. fraternus* Say, 1 each of these species, both sifted at Natick on October 12, 1928, from piles of grass and weeds. Both are likewise new State records.
- Rhynocoris ventralis* Say, 1 specimen from Natick, July 8, 1928; the only other record from Massachusetts seems to be the original from Framingham, also a capture by Mr. Frost.
- Nabis ferus* Linné, 1 from Cambridge, collected by Dr. Emerton, a new Massachusetts locality.
- N. roseipennis* Reuter, 1 from Sherborn, November 25, 1928 sifted; a new locality for the State, and 1 from Natick, May 13, 1928, another new locality, also sifted.

Lyctocoris campestris Fabricius, 1 from Southboro, May 16, 1928.

This species does not seem to have been heretofore recorded from Massachusetts.

Anthocoris borealis Dallas, 2 specimens, sifted, Framingham, November 29, 1928. Apparently this species has been recorded only once from the State, from Peru.

Hydrometra martini Kirkaldy, quite a number from a woodland pool at Natick, on May 26, 1928; a new locality.

Gerris marginatus Say, 1 sifted at Sherborn, November 25, 1928; which is another new locality for the species.

Saldula saltatoria Linné, 1 from Framingham, March 24, 1928, sifted. This species is questioned by Parshley in Hemiptera of New England, although he gives several records in Massachusetts, the present being a new locality. A number of mirids came with these, but they have been reserved for study by Dr. H. H. Knight, who will report on them later.

The more interesting Heteroptera from Mr. Frost, however, are those that he secured at Paris and South Paris, Maine. As will be seen, not only are some of them new records for the State, but there are also some which enormously extend the distribution of certain of the species.

Euschistus tristigmus Say, Paris, June 11, 1929, a single specimen from a new locality in the State.

Nysius californicus Stål, 2 from South Paris, September 20, 1928, and 2 from Paris, July 11, 1929. According to Blatchley, this species extends from Connecticut south; Parshley, in Hemiptera of Connecticut states that it reaches its northern limits in the southern New England States. This, therefore, is not only a new record for New England, but it also extends to a great degree the distribution of this species, which is now seen to occur from Mexico and Florida north to the Dakotas and Maine, from ocean to ocean.

Nysius thymi Wolff, 1 from Paris, July 11, 1929, a new locality in the State.

Drymus unus Say, 2 from South Paris, September 26, 1928, a new locality, as is also the following species.

Eremocoris ferus Linné, same data, 1 specimen.

Scolopostethus diffidens Horváth, 1 specimen, same data. This is the first definite locality in Maine, although Parshley in Fauna of New England records it as from "Maine."

Plinthisus compactus Uhler, 1 specimen, same data as above. This appears to be a new record not only for the State, but

for New England, as well. Parshley gives it as found in New Hampshire and Massachusetts only.

Sphaerobius insignis Uhler, same data; a new State locality.

Ranatra nigra (H. S.) Hungf., an adult and a nymph from the Little Androscoggin River, South Paris, September 20, 1928. This is a new record for New England. Parshley gives it from Massachusetts, but from no other State, under the name of *R. protensa* Montandon.

These few records, useful in advancing an adequate knowledge of our American Heteropterous fauna, indicate the desirability of securing specimens from uncollected places. This coleopterists can well aid in, since by the same methods that Coleoptera are secured, many Heteroptera will be found. And echo answers "Et tu quoque."

Eurymus eurytheme Bdv.—Stray specimens of *E. eurytheme* Bdv., have been noted occasionally in southern Massachusetts during the past three seasons, a male at Acoaxet on August 14, 1927, another on the links of the Fall River Country Club, October 16, 1927. In 1928 at Acoaxet on August 27 a high-colored male specimen was taken. During 1929 two specimens were noted, September 5th, at Acoaxet and on September 12th at the Fall River Country Club.—W. PRESCOTT ROGERS, Fall River, Mass.



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