

ON SOME HETEROPTERA FROM THE WEST AND SOUTHWEST.

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I

The bugs collected in the West and Southwest in the course of his trip in the summer of 1933 by Mr. George P. Engelhardt, while naturally limited as to species and numbers, nevertheless contain some interesting forms and new records for the States of Oregon, Washington, Utah and Nevada. All are set forth here, either as confirmatory of published records or as extending the range of some of the forms. The species are typical of the West and South, except for widespread nearctic or palaearctic species, such as *Thyanta custator*, *Eurygaster alternatus*, *Brochymena quadripustulata*, *Elasmotethus cruciatus*, *Harmostes reflexulus*, *Corizus lateralis*, *Lygaeus kalmii*, two *Nysius*, *Geocoris bullatus*, *Emblethis vicarius*, *Sinea diadema*, *Salda interstitialis* and *S. coriacea*, and the very interesting ant-mimic *Orectoderus obliquus*. Characteristically western are: *Thyanta brevis*, *Pentatoma sayi*, *Perillus bioculatus* var. *clanda*, *Alydus pluto*, *Corizus scutatus*, *Geocoris atricolor*, *Ligyrocoris latimarginatus*, *Aradus blaisdelli*, *Nabis lovetti*. However, many of these are new distributional records, as will be noted hereafter.

II.

Eurygaster alternatus Say—Mt. Rainier National Forest, Oregon, 4 specimens, May 5.

Brochymena quadripustulata Fabricius—One from Coleman Lake, Oregon, June 24; seems not heretofore reported from the State.

Thyanta custator Fabricius—Guano Ranch, Nevada, June 24; Lake View, Lake Co., Oregon, June 23.

Th. brevis Van Duzee—Blitzen River, Oregon, June 25; Garfield Co., Utah. New for Oregon.

Th. sp.—A small species something like *brevis*, but not identified. Guano Ranch, Nevada, June 24.

Pentatoma sayi Stål—White Swan, Washington, July 4; Green River, Utah, August 4; Moab, Utah, August 6. These seem to be new records for both States.

Perillus bioculatus Fabricius var. *clanda* Say—Utah Lake, Utah, August 1.

Elasmotethus cruciatus Say—Pine Creek, Baker, Oregon, June 14, 3 specimens of this widespread form.

- Mozena* sp.—St. George, Utah, July 22; this is a common southwestern species not as yet satisfactorily determined specifically.
- Catorhintha guttula* Stål—Westport, Nevada, July 7; one specimen of this species, which does not appear to have been recorded from the State heretofore.
- Alydus pluto* Uhler—White Swan, Washington, July 4, and Pullman, July 11.
- Harmostes reflexulus* Say—Mt. Rainier National Forest, Oregon, July 3.
- Corizus crassicornis* Linné—One from Pullman, Washington, July 13, which appears to be a new distribution record for this holarctic species.
- Corizus scutatus* Stål—One from Grand Pass, Oregon, June 20.
- Corizus lateralis* Say—One from White Swan, Washington, July 4; the common nearctic species.
- Lygaeus kalmii* Stål—Fish Lake, Utah, July 23; Timpanogas, Utah, July 30; Utah Lake, Utah, August 1; Garfield Co., Utah, July 4; Pine Creek, Baker Co., Oregon, July 14; Malheur Pass, Canyon Mts., Oregon, June 26. These are mostly the western var. *angustimarginatus* Parsh.
- Nysius thymi* Wolff—Guano Ranch, Nevada, June 20; Moab, Utah, August 8.
- Nysius ericae* Schilling—Fish Lake, Utah, July 23; Mt. Rainier National Park, Oregon, July 5. The two species above are likewise widespread, holarctic in distribution.
- Ligyrocoris latimarginatus* Barber—White Swan, Washington, July 4. This is a characteristically western species.
- Emblethis vicarius* Horváth—Garfield Co., Utah, July 4, 2 specimens; Newport Beach, Washington, one. I can find nothing to distinguish this from eastern specimens. It seems not as yet recorded from Washington.
- Aradus blaisdelli* Van Duzee—Pine Creek, Baker, Oregon, July 14; one somewhat dilapidated specimen of this western form.
- Reduviolus subcoleoptratus* Kirby—Pullman, Washington, July 11.
- Nabis capsiformis* Germar—Provo Lake, Utah, August 8, one specimen of this palaearctic species which seems widely distributed in the nearctic region.
- Nabis lovetti* Harris—Utah Lake, Provo, Utah, August 1; 2 specimens of this species described and reported only from Oregon.
- Pagasa* sp., nymphs—Two from Garfield, Utah, July 4; too young to determine.

Sinea diadema Fabricius—Pullman, Washington, July 4; one specimen.

Apiomerus spissipes Say—Two from Whistler, Alabama, June 11; this is the common southern species.

Orius sp.—Klamath Indian Reservation, Oregon, June 22; there is only one badly dilapidated specimen of this, which is probably our common widespread *insidiosus* Say.

Anthocoris sp.—Mount Timpanogas, Provo, Utah, July 29; the two specimens before me look like the European *nemorum*.

There is in addition one undetermined Anthocorid, from Pullman, Washington, July 13.

Orectoderus obliquus Uhler—One specimen from Mt. Rainier National Forest, July 5. This is the widespread ant-mimic.

Labops hirtus Knight—Mount Rainier National Forest, Oregon, July 5; 5 specimens of this species, which apparently has heretofore been recorded only from Alberta, British Columbia and Wyoming.

There are also eight other species of Miridae, thus far undetermined.

Gerris robustus Uhler—Five specimens from Santa Rita Mts., Arizona, June 14; one a nymph. According to Drake, this is a synonym of *Gerris remigis* Say.

Microvelia sp.—Las Vegas, Nevada, July 21. There are eight specimens of this species, near *americana* Uhler, which I have not yet succeeded in determining to my satisfaction.

Salda coriacea Uhler—One from Mt. Rainier National Forest, Oregon, July 5.

Saldula interstitialis Say—3 specimens of this widespread North American species from Utah Lake, Provo, Utah.

Notonecta lobata Hungerford—Santa Rita Mts., Arizona, June 16; 3 specimens of this typical southwestern form, common in that State.

Notonecta insulata Kirby(?)—Ogden, Utah, July 25; this is the western species, usually so determined.



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