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X

EXPEDITION OF THE CALIFORNIA ACADEMY
OF SCIENCES TO THE GULF OF
CALIFORNIA IN 1921¹

THE TINEID MOTHS

BY

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GELECHIIDÆ

1. *Aristotelia howardi* Walsingham

Walsingham, Biol. Centr. Amer., Vol. 4, p. 23, 1909; Pl. I, fig. 21.

Two specimens, one male, one female, Angeles Bay, Lower California, June 25, 1921, collected by E. P. Van Duzee, as were all the specimens listed in this paper.

2. *Aristotelia pulvera* Braun, new species

Palpi whitish, two narrow pale brown annuli on second segment, tip of second segment pink, third segment with an indistinct brown annulus at base, middle and tip respectively. Antennæ brown. Head pale ochereous anteriorly, pink above posteriorly. Fore wings whitish ochereous, evenly dusted with fine brown atoms, and rosy tinged along the fold and in the apical third of the wing. An oblique brown bar from basal third of costa nearly to dorsum, broadest on the fold; a quadrate brown patch at apical third of costa, and beneath it on the middle of the wing a nearly circular golden brown and rosy tinged spot. Legs whitish, with brown bars, the pale spaces more or less deeply tinged with pink. Expanse 13.5 mm.

¹A map showing the islands, etc., visited by this Expedition will be found in Vol. XII, No. 6, of these Proceedings. Copies of which can be supplied at nominal cost.

June 7, 1923

Type: Male, No. 977, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, May 4, 1921, at **Angeles Bay, Lower California.**

3. *Telphusa nigrimaculata* Braun, new species

Palpi dull ocherous, dusted with fuscous; antennæ annulate with fuscous. Head and thorax dull ocherous with fuscous dusting densest on the patagia and median line. Fore wings dull ocherous with fuscous dusting and small aggregates of raised black scales forming ill-defined markings. An oblique line of minute black spots forms the inner border of an almost undusted bar which extends from basal fifth of costa to the fold; beyond this paler area, in the dusted middle portion of the wing, are several small patches of black scales; near the end of the fold is a minute patch of raised black scales; and above the end of the fold a larger patch of raised scales; an elongated patch of denser dusting on the middle of the costal margin; around apex the dusting is arranged in spots separated by the undusted ground color. Hind wings brownish ocherous. Legs whitish, dusted with fuscous. Abdomen brownish, basal two segments yellow. Expanse 12 mm.

Type: Female, No. 978, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, June 14, 1921, at **Escondido Bay, Lower California.**

4. *Gnorimoschema triocellella* Chambers

Chambers, Bull. Geol. Surv. Terr., III, p. 127, 1877.

One specimen, Angeles Bay, June 25, 1921. There is more white in the scales than is usual in this species and the ocellate spots lack the brown center, being entirely ocherous.

5. *Anacampsis triangularis* Braun, new species

Palpi whitish, with a few scattered brownish scales, base of second segment dark brown. Antennæ ocherous, with brown annulations, and first two or three segments brown. Head, thorax and fore wings dull ocherous, the ground-color of the fore wings gradually deepening toward apex to a reddish ocherous color in the apical third. There is a sparse sprinkling of dark brown scales over the wing surface and in the paler cilia. Markings dark brown; extreme base of costa dark brown; an elongate spot near middle of costa and a larger triangular spot at apical third of costa reaching one-fourth across the wing; a small spot beyond middle of cell and a little anterior to it in the fold a similar spot; an irregular transverse brown line at end of cell and just above end of fold a spot somewhat larger than the discal spot; slight aggregates of brown scales in the interspaces around the apex. Hind wings brownish gray, darker than the fore wings. Legs whitish with scattered brown scales; anterior tarsi dark brown with pale tips. Expanse 14 mm.

Type: Female, No. 979, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, May 4, 1921, at **Angeles Bay, Lower California.**

6. ***Gelechia sistrella* Busck**

Busck, Proc. U. S. N. M., XXV, p. 862, 1903.

One specimen, Angeles Bay, Lower California, June 25, 1921.

7. ***Gelechia inæqualis* Walsingham**

Walsingham, Biol. Centr. Amer., Vol. 4, p. 66, 1911.

Six specimens, Angeles Bay, Lower California, June 25, 1921.

In five of the six specimens the outer two-thirds of the fore wing is more or less suffused with pink and blotched with golden brown; in the original description the ground color is described as "brownish white, dusted with brownish fuscous."

8. ***Gelechia albipectus* Walsingham**

Walsingham, Biol. Centr. Amer., Vol. 4, p. 63, 1911.

Five specimens, Angeles Bay, Lower California, June 25 and 26, 1921.

This is an obscurely marked species, best recognized by the white undersurface of the body, sharply contrasting with the velvety black palpi and sides of thorax, and the black dashes along the sides of the abdomen.

9. ***Gelechia elaboratella* Braun, new species**

Palpi white faintly tinged with ochereous, and usually dusted with blackish specks; base of second segment sometimes blackish; a faint annulus near base of third segment. Antennæ fuscous with whitish annulations. Head, thorax and fore wings white shaded with pale ochereous, and more or less dusted with fuscous. Markings of the fore wings blackish or brownish fuscous; at basal fifth a pale brown patch, outwardly limited by blackish scales, not reaching either margin, and fading into the ground-color toward base; one or two spots on costa near base; an obliquely placed oval patch in the middle of the wing at the basal third, margined along the fold by dark brown scales, and con-

nected with basal fourth of costa by a narrow patch of similar dark scales; just beyond a small black discal spot; at end of cell an oblique curved brown streak, concave inwardly and beneath; beyond this the ground color shades to pale brownish, dusted with fuscous; at two-thirds the wing length curved, very oblique, whitish costal and dorsal streaks meet in an acute angle in the apical part of the wing; a series of minute black spots around apex. Cilia white, speckled with fuscous. Legs whitish, dusted; tarsal segments blackish with pale tips. Expanse 14 mm.

Type: Male, No. 980, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, June 25, 1921, at **Angeles Bay, Lower California**. *Paratype*, April 23, 1921, Freshwater Bay, Tiburon Island, Gulf of California.

There is considerable difference in the depth and density of dusting on the wing of these two specimens.

10. *Gelechia intermedia* Braun, new species

Palpi whitish, speckled with black, tuft triangular, due to the unusual length of the scales of its basal half. Antennæ whitish, with fuscous annulations. Thorax and fore wings clothed with whitish scales which over most of the wing area are very narrowly tipped with blackish; some aggregates of scales are more broadly black-tipped, forming scarcely defined darker patches, situated as follows: a patch along extreme base of costa, near middle of costa and at two-thirds of costa; a small patch in cell near base, a larger diffuse scarcely defined patch beyond it, and another near end of cell. Apex of wing dusted with more deeply black-tipped scales. Hind wings and cilia brownish, darker toward margins. Legs white, dusted with brownish fuscous. Expanse 17 mm.

Type: Female, No. 981, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, June 25, 1921, at **Angeles Bay, Lower California**.

11. *Dichomeris mexicana* Walsingham

Walsingham, Biol. Centr. Amer., Vol. 4, p. 96, 1911.

One specimen, Angeles Bay, Lower California, May 4, 1921.

BLASTOBASIDÆ

12. *Holocera* sp.

One specimen, Espiritu Santo Island, Gulf of California, May 31, 1921.

SCYTHRIDÆ

13. *Scythris divaricata* Braun, new species

Palpi white, dusted with black, apex of second and extreme tip of third segment white. Head and basal segment of antennæ clothed with black and white scales; antennal pecten white. Fore wing white with the ground-color, except in the costal third of the wing, more or less obscured by black dusting. In the basal half of the dorsal two-thirds of the wing this dusting is dense and evenly distributed; at basal fifth just above the dorsal margin is a black spot, not always distinctly defined; lying obliquely across the fold at one-third is an irregular rectangular white patch, its costal end nearer base; at end of cell a rather conspicuous black spot. The line of demarcation between the dorsal dark area and the relatively undusted costal third of the wing is rather sharply defined; three or four longitudinal lines of dusting may be distinguished in the costal area, the first from the base to one-third of costa, the others from the cell to the margin in the apical third of the wing. Costal cilia white, dorsal cilia brownish ochereous. Hind wings pale grayish brown, cilia brownish ochereous. Legs white, dusted with black. Expanse 14 to 17 mm.

Type: Male, No. 982, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, May 4, 1921, at **Angeles Bay, Lower California**; two *paratypes*, same place, May 4 and June 25, 1921.

This species is allied to *Scythris sponsella* Busk, with which it agrees in all structural characters.

TINEIDÆ

14. *Myrmecozela erecta* Braun, new species

Labial palpi pale ochereous, second segment with dense brush, dark brown on outer side, and spreading lateral setæ, third segment flattened, a conspicuous dark brown spot on its under side. Head, thorax and fore wings pale dull ochereous; the fore wings with transverse broken brown strigulæ, and several conspicuous brown markings of which the following stand out clearly: At one-third of costa an elongate spot; in middle of fold a round spot; at two-thirds a Y-shaped mark, the ends of the arms on costa, the leg across the end of the cell; near apex on costa a small triangular spot. Hind wings and cilia pale brownish ochereous, a little darker than the fore wings. Legs pale ochereous, fore legs shaded with brown. Expanse 12 mm.

Type: Male, No. 983, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, June 25, 1921, at **Angeles Bay, Lower California**.

ACROLOPHIDÆ

15. *Acrolophus* sp.

One specimen, Angeles Bay, Lower California, June 25, 1921.

16. *Acrolophus* sp.

One specimen, Angeles Bay, Lower California, May 4, 1921.

17. *Acrolophus* sp.

One specimen, Angeles Bay, Lower California, May 4, 1921.

18. *Acrolophus* sp.

One specimen, San Carlos Bay, Sonora, Mexico, July 9, 1921.



Braun, Annette F. 1923. "Expedition of the California Academy of Sciences to the Gulf of California in 1921. The tineid moths." *Proceedings of the California Academy of Sciences*, 4th series 12, 117–122.

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