

## New Species of Hawaiian Lepidoptera\*

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(Presented by title by O. H. Swezey at the meeting of November 1, 1934)

### DIPLOSARIDAE

#### ***Aphthonetus triaula* n. sp.**

♂ ♀. 9-11 mm. Head white, a brownish-ochreous central stripe on crown. Palpi white, partially variably infuscated, second joint smooth. Antennae white, apex infuscated. Thorax brownish, two white stripes. Forewings brownish; a slender white costal streak from towards base to costal cilia, another supramedian from base to beyond middle, sometimes coalescing with first posteriorly, and a third broader along dorsum from base to tornus; obscure whitish lines more or less indicated on veins posteriorly: cilia white, on termen slightly tinged yellowish, on tornal area tinged greyish. Hindwings grey, disc sometimes tinged whitish; cilia whitish-grey.

Hawaii: (Prof. S. Issiki); 3 examples.

#### ***Aphthonetus prae fracta* n. sp.**

♂ ♀. 14-16 mm. Head, palpi, thorax white, slightly sprinkled or irregularly tinged pale greyish, second joint of palpi with roughly expanded hairs at apex above. Antennae light greyish. Abdomen grey-whitish, two or three basal segments with ochreous-yellowish dorsal blotches. Forewings white, variably and irregularly sprinkled light grey or brownish-grey; markings dark grey more or less suffused brownish; one or two dots and sometimes a dorsal spot near base; a somewhat oblique streak from costa at  $\frac{1}{3}$  to near dorsum, interrupted above middle; four more or less distinctly developed spots on posterior half of costa, one on tornus, one on middle of termen, one or two in disc towards apex, and dots representing stigmata, plical very obliquely beyond first discal: cilia grey-whitish, base obscurely spotted grey. Hindwings grey; cilia pale greyish.

Kauai: Kumuweia, March 10, 1928, 6 examples bred from bark of *Pipturus*; also 2 Kokee, August 28, 1921 (O. H. Swezey). Nearest *exsul* Walsm.

#### ***Neelysia palmifera* n. sp.**

♂ ♀. 11-12 mm. Head ochreous-whitish, sometimes tinged grey. Palpi ochreous-whitish, second joint blackish except tip, terminal joint with fine black anterior line. Antennae ochreous-whitish ringed grey. Thorax ochreous-whitish, shoulders dark grey. Abdomen ochreous-whitish, suffusedly mixed light grey. Forewings ochreous-whitish; a blackish costal streak, nar-

\* The types of the new species described in this paper are in the type collection of the Hawaiian Entomological Society. [Ed.]

row at base and expanding to  $\frac{1}{3}$ , where it covers half wing, thence to  $\frac{2}{3}$ , where it terminates, its edge forming five oblique projections separated by acute teeth of ground colour; from near beyond this a wedge-shaped black streak, pointed anteriorly, along costa to apex, where it meets a similar terminal streak, these cut by two fine white bars on costa, one at apex, and three on termen, a black longitudinal streak in disc from  $\frac{3}{4}$  to near apex; some irregular variable fuscous dorsal suffusion throughout; a short blackish linear mark beneath middle of wing (plical stigma), and two or three dark fuscous interneural lines posteriorly: cilia grey, base blackish, with white bars from costal and terminal markings. Hindwings light bluish-grey; cilia light grey.

Oahu: Pauoa Flats, bred April 23, 1934, from dead Wikstroemia (O. H. Swezey); 4 examples. Allied to *cleodorella* Walsm.

**Neelysia mormopica** n. sp.

♀. 13 mm. Head, palpi, thorax whity-yellowish, base of palpi grey. Antennae grey, towards base yellow-whitish. Forewings light yellowish-fulvous; costal and dorsal edge dark fuscous near base; an irregular suffused fuscous fascia from  $\frac{1}{4}$  of costa to middle of dorsum, enclosing a short longitudinal dark fuscous mark on fold (plical stigma); a round whitish discal blotch beyond this, and another at  $\frac{3}{4}$ , connected by a fuscous median stripe, second blotch indistinctly edged fuscous, veins posteriorly partially lined fuscous; a dark fuscous streak on costa above second blotch, and one on dorsum beyond fascia: cilia grey, its basal half dark fuscous except on tornus, outer half whitish on upper part of termen. Hindwings and cilia whitish-yellowish.

Oahu: Punaluu (O. H. Swezey); 1 example. Allied to *cuprea* Walsm.

**Neelysia erebogramma** n. sp.

♂. 10 mm. Head, antennae, thorax dark fuscous. Palpi whitish, terminal joint dark fuscous. Abdomen grey mixed whitish, anal tuft whitish. Forewings brownish sprinkled dark fuscous; stigmata blackish, discal remote, plical slightly before first discal; obscure blackish neural streaks on costal half, one between discal stigmata, one along fold, and a broader blackish dorsal streak from base to tornus: cilia grey strongly barred blackish. Hindwings light slaty grey; cilia light brownish grey.

Oahu: Kahuku, bred April 5, 1925, from Hesperomannia (O. H. Swezey); 1 example.

**Euperissus catapyrrha** n. sp.

♂. 25 mm. Head, palpi, thorax ochreous suffused ferruginous. Forewings rather elongate-oblong, costa gently arched, apex obtuse, termen obliquely rounded; golden-ochreous suffused ferruginous; stigmata moderate, cloudy, ferruginous-brown, plical rather before first discal, second discal forming a transverse mark: cilia greyish, tinged ferruginous towards base. Hindwings and cilia pale grey.

Maui: Olinda, bred January 14, 1926, from *Rubus* (O. H. Swezey); 1 example.

***Phthoraula* new genus**

Head smooth. Antennal scape elongate, slender, without pecten. Labial palpi very long, recurved, smooth, slender, terminal joint much longer than second, acute. Forewings: 2 from 4/5, 3 from angle, 7 to costa, 8 absent, 9 very near 7, 11 from middle. Hindwings 4/5, very elongate-ovate, cilia 1 2/3; 2 from 3/5, 3 from towards angle, 4 from angle, 5 little approximated, 6 and 7 rather approximated anteriorly.

A derivative of *Hyposmocoma*, from which it is distinguished by the absence of vein 8 of forewings, and the exceptionally long terminal joint of palpi.

***Phthoraula homopyrrha* n. sp.**

♀. 15 mm. Head, thorax pale ochreous partially suffused ferruginous. Palpi second joint whitish-ochreous, terminal joint whitish with very fine dark fuscous line. Forewings very elongate, narrowed posteriorly, obtuse-pointed, termen extremely obliquely rounded; fulvous-ochreous, without markings: cilia pale ochreous, basal half suffused fulvous. Hindwings and cilia whitish-ochreous.

Oahu: Nuuanu, bred September 7, 1919, from dead ohia wood (J. C. Bridwell); 1 example.

***Hyposmocoma oxypetra* n. sp.**

♂ ♀. 9-10 mm. Head whitish, centrally suffused brownish. Palpi whitish, subapical ring of second joint and basal and apical rings of terminal suffused dark fuscous. Antennae ochreous-whitish, ringed fuscous. Thorax brown, tegulae whitish. Forewings whitish, disc suffused pale ochreous-yellowish; markings dark brown; a gradually dilated costal streak from base to middle, and an elongate semioval blotch on costa from beyond middle to 3/4; an acute-triangular spot in disc about 1/3, an oblique interrupted mark beyond middle, and a spot at 4/5, these connected by variable irregular patches of suffusion along dorsum; several small irregular variable spots on apical and terminal area: cilia whitish, within a dark fuscous subbasal line yellow, a dark fuscous apical line on costa to apex, tornal area grey. Hindwings grey, darker posteriorly, cilia grey; in ♂ an expansible whitish hair-pencil lying along costa from base to middle.

Oahu: Pacific Heights, Tantalus, Palolo (O. H. Swezey); 4 examples. Also 1 ♂ from Kilauea, Kauai, bred April 15, 1909, from Pandanus, deformed from imperfect development but apparently the same species. Probably allied to *petroschia* Meyr.

**Hyposmocoma trimelanota** n. sp.

♂. 10 mm. Head white. Palpi second joint dark grey, tip white, terminal joint white, fine black basal and subapical rings. Antennae white, ringed dark grey. Thorax white, humeral edge black. Forewings white, slightly sprinkled dark brown anteriorly, this irroration becoming denser in median portion of disc and nearly complete suffusion on apical third; narrow elongate black spots on costa at base,  $\frac{1}{3}$ , and beyond middle; an oblique triangular dark brown spot from dorsum near base; stigmata slightly indicated but absorbed in discal irroration: cilia whitish, basal third grey. Hindwings grey; cilia pale greyish.

Hawaii: Kilauea, July 20, 1934 (O. H. Swezey); 1 example. Nearest *arenella* Walsm.

**Hyposmocoma hygroscopa** n. sp.

♂. 12-13 mm. Head white, lower part of face fuscous. Palpi white, second joint black except tip, terminal joint with black subapical ring. Antennae white, ringed fuscous, scape blackish. Thorax white, slightly speckled brownish. Abdomen grey, anal tuft whitish-ochreous, or ochreous with base whitish. Forewings white speckled light brownish; a suboblong blackish spot on costa at  $\frac{1}{3}$  and larger one beyond middle, sometimes also one at base; an oblique-triangular blackish grey spot from dorsum towards base, reaching fold; stigmata blackish, plical obliquely before first discal, which sometimes forms an elongate mark, sometimes an additional dot before this; a cloudy grey or blackish-grey spot on dorsum before tornus; two or three cloudy dots of blackish-grey irroration on apical margin: cilia ochreous-whitish speckled brownish. Hindwings and cilia grey; a greyish expansible hairpencil lying along costa from base to middle.

Kauai: Halemanu, bred August 27, 1921, from Eucalyptus bark (O. H. Swezey); 4 examples. Allied to *carbonenotata* Walsm.

**Hyposmocoma centronoma** n. sp.

♀. 15 mm. Head, palpi, antennae, thorax white. Forewings shining white, tinged grey on costal area except basally; discal stigmata minute, black, plical somewhat larger, obliquely before first discal, an additional dot above fold midway between first and second discal; some grey suffusion at apex: cilia whitish-ochreous. Hindwings grey; cilia whitish-ochreous.

Oahu: Kawaihapai, bred April 9, 1930, from larva feeding on bark of lehua (O. H. Swezey); 1 example.

**Hyposmocoma nipholoncha** n. sp.

♂ ♀. 14-16 mm. Head snow-white, eyes ♂ crimson. Palpi dark grey, apical  $\frac{1}{4}$  of second joint and basal  $\frac{3}{4}$  in ♂, basal half in ♀ white. Antennae dark grey. Thorax white, tegulae dark fuscous. Abdomen light grey. Forewings rather dark brownish-fuscous; extreme dorsal edge white near base; a moderate white pointed dorsal streak beginning at  $\frac{1}{2}$  and running to tornus; plical stigma blackish, on edge of dorsal streak, second discal dark

fuscous: cilia fuscous, towards tornus suffused whitish. Hindwings and cilia whitish-grey; ♂ apparently with costal hairpencil.

Oahu: Mt. Tantalus, bred April 22, 1934, from dead stems of *Euphorbia* (O. H. Swezey); 2 examples. Probably nearest *divisa* Walsm.

***Hyposmocoma argomacha* n. sp.**

♂ ♀. 20 mm. Head, thorax white with faint brownish tinge, tegulae fuscous. Palpi white, second joint dark fuscous except tip, posterior edge of terminal joint dark fuscous. Antennae fuscous. Abdomen grey. Forewings rather dark fuscous; a moderately broad pointed white dorsal stripe from base to tornus: cilia fuscous-grey, becoming whitish-grey at tornus, a basal series of obscure blackish dots on termen. Hindwings light slaty-grey; cilia pale greyish.

Hawaii: Kilauea, bred June 19, 1934, from larvae and pupae in dead stems of *Smilax* (O. H. Swezey); 2 examples. Also allied to *divisa*.

***Hyposmocoma thiatma* n. sp.**

♀. 11-12 mm. Head, thorax greyish, tegulae sometimes ochreous-whitish. Palpi ochreous-whitish, terminal joint and upper part of second lined blackish. Antennae fuscous. Forewings rather dark brownish-fuscous; a broad suffused pale yellowish or yellow-whitish streak from base along fold to tornus and lower part of termen: cilia fuscous, subdorsal streak sometimes extending through it beneath apex. Hindwings grey, darker posteriorly; cilia grey.

Maui: Olinda, May 13, 1926 (O. H. Swezey); 4 examples. Taken with these on the same day is a single male, which, I think, is probably the other sex of the same species; it is similar, but has the subdorsal streak white, not extending into cilia, and also has a suffused white elongate costal spot about middle and a shorter one about  $\frac{3}{4}$ .

***Hyposmocoma anisoplecta* n. sp.**

♂ ♀. 11-13 mm. Head ochreous-yellowish fading to whitish, sometimes centrally suffused grey. Palpi yellow-whitish, terminal joint posteriorly or wholly suffused dark fuscous. Antennae grey. Thorax grey, tegulae ochreous-yellow except shoulders. Abdomen grey. Forewings dark fuscous; a slender yellowish or ochreous-whitish costal streak from towards base to apex or nearly; a broad ochreous-yellow streak (fading to whitish) from base along fold to tornus, sometimes extending to dorsum except for some partial grey suffusion: cilia light yellowish, on tornus and round apex pale greyish. Hindwings dark grey; cilia pale greyish; in ♂ an expansible grey hairpencil from base lying along costa to middle.

Oahu: Mt. Kaala, Waianae, May 11, 1924 (O. H. Swezey); also 1 ♀ from Maui, Kula Pipe Line, August 16, 1929, appears truly conspecific. Very near *bilineata* Walsm., but distinct by uniform grey antennae (not ringed), dark terminal joint of palpi, and costal hairpencil of hindwings in ♂.

**Hyposmocoma hemicasis** n. sp.

♂ ♀. 10-11 mm. Head yellow-whitish, sides of crown yellow. Palpi yellow-whitish, a more or less developed blackish lateral streak. Antennae grey. Thorax yellow, more or less infuscated anteriorly. Abdomen grey, anal tuft ♂ yellow-whitish or whitish-yellow. Forewings dark fuscous; a slender yellow-whitish costal streak from towards base nearly or quite to apex; a moderately broad yellowish or yellow-whitish dorsal streak from base to tornus, upper edge irregularly notched or excavated in middle of wing: cilia yellow-whitish, tinged greyish about tornus and apex. Hindwings grey; cilia whitish-grey.

Oahu: Mt. Kaala, Waianae, May 11, 1924 (O. H. Swezey); 4 examples. Apparently allied to preceding but distinct, yet taken together on the same day; also near *latiflua* Meyr.

**Hyposmocoma filicivora** n. sp.

♂ ♀. 15-18 mm. Head, thorax orange-ochreous, tegulae fuscous. Palpi orange-whitish, second joint fuscous except towards tip. Antennae grey. Abdomen light grey, anal tuft ♂ whitish-ochreous. Forewings rather dark ferruginous-fuscous, becoming lighter and ochreous tinged towards apex; a rather outwards-oblique narrow streak of yellow-ochreous suffusion from dorsum before tornus reaching half across wing: cilia greyish. Hindwings light slaty-grey; cilia greyish.

Oahu: Konahuanui, bred February 22, 1914, from flat cases in dead frond stems of the tree fern *Cibotium chamissoi* (Cyathea-ceae) (O. H. Swezey); 2 examples.