

## Studies in the Genus *Myodites* Latreille (Coleoptera, Rhipiphoridae).

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The following studies are based upon a small series of specimens, loaned me by Mr. Warren Knaus. This series is especially interesting because it furnishes a new type of female. In all species hitherto examined by myself the female antenna is monopectinate, and the male antenna is biflabellate, with very long rami of which the tips are about even at apex. In the species *Myodites knausi* described below the female antenna is monoflabellate, with the rami longest at base, diminishing in length toward the apex.

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**Myodites knausi** n. sp.

The specimens on which this description is based are from the collection of Mr. Warren Knaus, and include four females collected at St. George, Utah, June 10, 1919, at an altitude of 2800 feet; and two females and one male collected at Hurricane, Utah, June 14-18, 1919, at an altitude of 3200 feet. I have chosen as types the male and one female from Hurricane.

♀: Length 9 mm.; Head shining black, depressed, finely and evenly punctulate, clad with dense yellowish white perpendicular pubescence; vertex prominent, broadly rounded; eyes shining black, minutely faceted. Antennae ten-jointed, nine-flabellate, pubescent; joints honey-yellow, darkening toward apex, the last joints almost entirely brownish; the flabellae diminishing in length toward apex, but the flabella of the tenth joint equals the basis of the three preceding joints. Mandibles with the exterior side black, punctulate, densely pubescent, beyond which there is a slight reddish tinge; apices shining glabrous, acuminate. Palpi yellowish, tinged with brown, pubescent.

Prothorax black, shining, more or less denuded in scutal zone, densely pubescent at base, sides and in scutellar sone; irregularly punctulate, not carinate. Elytra honey-yellow with brownish base. Metathorax shining glabrous. The thorax beneath and on sides is minutely punctulate and densely pubescent. Wings hyaline, with large fuscous cloud on costal margin and on disc beyond middle.

Legs honey-yellow, with joints darkened at base and apex, tarsal joints darker. Femora stout, densely pubescent, shining and minutely punctulate. Tibiae straight, slightly enlarged toward tip, bi-unguiculate, densely pubescent, and rather cosely and minutely punctulate. Anterior tarsi with first joint slightly longer than following three, fifth longer than first, claws almost as long as first joint, and strongly pectinate. Middle tarsi with first joint as long as fifth joint, claws strongly pectinate, but not as long as first joint. Hind tarsi with first joint elongate, enlarged, and apically diagonally truncate, almost twice as long as the two following joints, and longer than the fourth joint; claws two-thirds as long as the fourth joint, and strongly pectinate.

Abdomen with dorsum of first five segments black, but with intersegmental skins yellow. The venters of these same segments are also black with yellow inter-segmental skins. The pygidial area is yellow with infuscation beyond the middle. The entire surface of the abdomen is sparsely punctulate pubescent.

♂: Length 9 mm. Similar to the female, with the following exceptions: antennae honey-yellow, bi-flabellate, with the tips of the rami about even. The abdomen is black with the base and apex of the first ventral segment yellow, and the prepygidial area yellow, but with the pygidium black.



**Myodites solidaginis** Pierce.

A female specimen from Tempe, Arizona, collected October 22, 1919, measuring 6 mm. answers in all other respects to the description of this species, and cannot be separated with sufficient characters from a specimen of the paratype series.

**Myodites scaber** LeConte.

A normal specimen of the female of this species from McPherson, Kansas, collected by Mr. Warren Knaus, is at hand.

A small specimen from Hurricane, Utah, collected by Mr. Knaus, June 14-18, 1919, at an altitude of 3200 feet, answers in general to the description and compares quite closely to the Kansas specimen, but measures only 7 mm. in length, and has the wings hyaline, with only a dark fuscous clouding in the form of fascia beyond the middle. It also differs by having the vertex not carinate. This may be a different species, but it is inadvisable to so describe it without the other sex.

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**The Eggs of *Boletotherus bifurcus* Fab. (Col).**

While collecting fungi in a swamp at Union, New Jersey, on August 4, our attention was attracted by numerous, small, oval, discolored blisters on the upper surface of a specimen of *Fomes applanatus*. These blisters or egg capsules were composed of dark excrement-like material, each being oval or suboval in outline, about 3.5 mm. long, 2.5 mm. wide and from 1 to 1.5 mm. high in the centre, sloping toward the edges. The average thickness of the wall of a capsule was about 0.5 mm. Each capsule contained either a recently hatched larva or a single egg resting on its side. The translucent eggs were cylindrical with broadly rounded ends and varied in length from 1.7 mm. to 2 mm. and in width from 0.8 mm. to 1 mm. Several eggs were found which were only three-fourths of the above measurements. The outer covering of each egg was whitish and marked with slightly raised dots. Upon hatching, the larva bores directly into the fungus and in time, the capsule weathers away. Many of the capsules were placed in crevices or irregularities on the upper surface of the fungus.

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