

New Californian Mites

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The following new species form part of an interesting collection of mites recently sent by Dr. Hilton for determination:

Trombidium perscabrum n. sp.

Red. Body about one and one-half times as long as broad, subpyriform, broadest at humeri, broadly rounded behind. Cephalothorax very short, with crista reaching almost to the hind margin and there enlarged, and with a long fine hair arising from each sensilla. Eyes near lateral margin on a very short elevation. Body clothed with short, capitate hairs with roughened tips, some near the eyes are longer than the others. Among these capitate hairs are tufts of shorter spine-like hairs. Legs also clothed with similar, but mostly more clavate than capitate hairs, roughened on sides and end; some of the apical joints beneath have more slender hairs, and tarsus I. has them only on the base above, elsewhere with long, fine hairs. Leg IV. is about as long as the body, the last joint as long as the penultimate; leg I. plainly shorter than the body, tarsus I. fusiform, longer than the penultimate joint and about twice as broad. Palpi rather stout, basal joints with clavate hairs above, below with simple or pectinate hairs, and similar hairs on the fourth joint. Thumb as long as third and fourth joints together, cylindrical, rather longer than the claw.

Length, 1.4 mm.

From Claremont, California, January.

Differs from *T. scabrum* in having the clavate hairs on legs and palpi, and in the cylindrical thumb.

Erythraeus posticatus n. sp.

Body dark (probably red in life), legs pale. Body about one and two-thirds times as long as broad, broadly rounded behind, as broad at hind coxa as at humeri; cephalothorax narrowed in front, crista short, swollen at hind end, one eye spot each side. Body and legs clothed with simple hairs, not very densely, and about as long

as width of basal joints of legs; tarsus I. with shorter hairs, those below very short and dense. Leg I. about as long as body, tibia and metatarsus subequal, tarsus nearly two-thirds as long as metatarsus, and a little broader, but not greatly swollen, leg IV. plainly longer than body, the femur reaching beyond the tip of abdomen, the tibia only about two-thirds as long as the metatarsus, the tarsus hardly one-third as long as the metatarsus, and only slightly swollen. The palpi short and not much enlarged, the claw rather short and slender, the thumb slightly clavate, reaching beyond end of claw, and with hairs about one-half as long as the width of the joint.

Length, 2 mm.

From Claremont, California.

Tarsotomus macropalpis n. sp.

A large species, rather sparsely bristly. Body nearly twice as long as broad, broadest at humeri; cephalothorax tapering in front, one eye spot each side close to margin and much nearer hind than front end of cephalothorax; legs long, but none of the femora as long as the cephalothorax, the tibia (penultimate joint), however, as long as the cephalothorax; body and legs with erect bristles, only a few very long ones, some on the basal joints are serrate or hairy, and the outer frontal pair, which are thicker than the others, also hairy. Claws with rows of bristles beneath; palpi very large and heavy, with two apical claws, the large one with a few teeth on inner side, hairs of thumb very short.

Length, .7 mm.

From Claremont, California, under rocks.

Tarsotomus terminalis n. sp.

Body slightly constricted in the middle, each part slightly rounded and a little broader than long; legs long and slender, the hind femur as long as abdomen, the hind tarsus one and one-half times as long as femur; front femur about as long as hind femur; palpi long, ending in a slightly curved, stout spur, thumb long, but also heavy. Body and legs (except tarsi) with many very long, nearly erect bristles, two or three times as long as width of hind femur; tarsi with shorter, more appressed hairs. Cephalothorax with two eye spots each side.

Length, .4 mm.

From Claremont, California.

Eupodes brevipes n. sp.

Body yellowish (probably red when alive), legs hyaline. Body slender, pyriform, plainly more than twice as long as broad, much the broadest at humeri, above the hind coxæ the sides are concave, tip broadly rounded. Cephalothorax subtriangular, two long bristles each side, one on humerus, and two submedian rows down the back, about six bristles near tip of body. Leg I. no longer than body, femur I. not as long as the width of the body, tarsus I. plainly longer than penultimate joint which is no longer than the one preceding it. Leg IV. not as long as the body, the basal joints not much enlarged, tarsus IV. plainly longer than penultimate joint. All legs with a few simple bristles, mostly near tips of joints.

Length .45 mm.

From Laguna Beach, California, June 8th.

EXPLANATION OF PLATE

- Figure 1. *Erythræus posticatus*; palpus, legs I. and IV.
Figure 2. *Trombidium perscabrum*, crista, palpus, and hairs.
Figure 3. *Tarsotomus macropalpis*, palpus, tarsal claws, and tip of mandible.
Figure 4. *Eupodes brevipes*, palpus and leg I.
Figure 5. *Tarsotomus terminalis*, palpus.

