

FORMICA ROBUSTA, sp. nov.

Plate 6, fig. 6. Plate 7, fig. 6

Female.—Length 9.0–10.0 mm. Robust; head triangular, about as long as broad, posterior margin straight, posterior angles rounded; mandibles quite large, with a prominent terminal tooth and a number of irregular smaller teeth; antennae slender, the scapes greatly exceeding the posterior margin of the head; eyes moderately large; thorax slender, nearly one and one-half times as long as the head, and a little broader; gaster about two and one-half times as long as the head, and twice as wide; forewing exceeding the end of the abdomen. Length of head, 1.5 mm.; scape, 1.5; funiculus, 2.2 mm.; thorax, 2.7 mm. gaster, 5.0 mm.; forewing, 7.8 mm. Width of head, 1.5 mm.; thorax, 1.8 mm.; gaster, 3.0 mm.

Holotype.—No. 2878, M. C. Z. (S. H. Scudder).

Paratype (♀).—Nos. 2879–2886, M. C. Z.; no. 10,025, Peabody Museum; no. 7842, Princeton University; no. 17,012a, Colorado University, no. 78,800, U. S. N. M.; no. 22,976, A. M. N. H.; no. 35, Wickham collection; no. 8, Carnegie Museum.

The heads of most of the females are much flattened and consequently more rounded than that of the holotype and some of the paratypes. The holotype specimen shows less distortion than any other, but the antennae and eyes are not preserved; these latter structures do appear in some of the paratypes (e.g., 2879). With very few exceptions the females are light brown, indicating that in all probability this was the original color of the insects. The female is the commonest of the formicines, some three hundred specimens having been recognized in the material at my disposal. A few of these fossils, which are otherwise identical with the above female, have a series of fine striations on the clypeus and part of the head. Since many living species of *Formica* (e.g., *F. truncicola*, and *F. rufa rufa*) have similar striations in the female and worker, it is very probable that all the queens of *F. robusta* would show these striations if they were sufficiently well preserved and in the proper position.

Male.—There are a number of males which appear to belong to this species. They are undoubtedly *Formica* and their size is consistent with that of the female, but as in the case of the males of most other species, only measurements can be given as specific characters. Length, 7.0 mm. Length of head, 1.2 mm.; scape, 1.5 mm.; funiculus, 2.7 mm.; thorax, 2.1 mm.; gaster, 3.6 mm.; forewing, 9.0 mm. Width of head, 1.2 mm.; thorax, 1.8 mm.; gaster, 2.1 mm.

Allotype.—No. 2887, M. C. Z. (S. H. Scudder).

Paratype (♂).—No. 2888, M. C. Z.