



FIG. 3. Nest with two entrances constructed by a colony of *Dendromyrmex chartifex* F. Smith on a leaf of the tree, *Hirtella paniculata*. Originally the nest had probably been formed on the under side of a leaf whose withered remnants are now incorporated in the top of the nest. Remains of a damaged nest appear on a leaf above the inhabited nest. Mazaruni River, British Guiana.

collected in Panama City, Panama, July 7, 1924 he stated to me probably belonged to four females (No. 420), representatives of which had been determined by F. Santschi as this species. Both field note numbers carried the same date, locality, and "four females in incipient nest" data, and probably dealt with the same collection. There are no other data but the preserved nest, now damaged, is about 20×30 mm. with a height between 5 and 10 mm. The proximal part is much damaged but appeared to enclose the entrance. The nest is of long, thin plant fibers loosely compacted so that there are many spaces. Another nest (No. 401) taken by Dr. Wheeler at the same time and place was recorded as containing one female. There are no other data but the dried nest is now ovate, 13×26 mm. with a height of approximately 5 mm. and has a single entrance, proximal with respect to the leaf. The margins are attached to what

seems to be the mid-rib and a side-rib which curves back towards the middle to enclose an ovate area. The carton consists of a framework of long, slender fibers with fine material in the interstices. Both nests appeared to be on the underside of leaves, perhaps of the same species of plant, but the smaller nest was much more compact.

Dendromyrmex fabricii Roger, *ssp.* niger Weber (figure 2).—*D. niger* is known from the single colony which I found in dense Mora forest (*Mora excelsa* Benth.) on the Surinam side of the Courantyne River and about 50 miles upstream from the village of Hepsaba July 9, 1936. The forest was a practically pure stand of Mora, the trees being of large size. The ground was littered with their large fruit and the undergrowth consisted of young seedlings and saplings. The soil was a white clayey sand. *Odontomachus haematoda* L. was perhaps the dominant ant of the forest floor, *Stenomymex emarginatus* (Fabr.) was in a rotted cavity in a small tree at a height of five feet while *Azteca* sp. and *Dolichoderus* (*Monacis*) *bispinosus* Oliv. appeared to be the dominant arboreal ants. The *Dendromyrmex* nest was appressed to the under side of a leaf 210×67 mm. at a height of five feet on a Mora sapling.

The nest was 78 mm. in maximum length, from 18 to 31 mm. in width, and 6 mm. in maximum height. There were three openings, 7, 11 and 4 mm. wide, the 11 mm. opening being median. Each opening was an entrance to a cell walled off completely from the others. The cell with the smallest opening was distal with respect to the leaf base and appeared to be the oldest. The nest was made of silky gray carton, very thin yet strong. On this plant fibers and small bits of vegetal debris were stuck, rendering the nest more inconspicuous. Nearly the entire under surface of the leaf was similarly dotted with bits of debris, causing the nest to merge still more into the background. An insect or other animal had eaten into the margin of the leaf but not sufficiently to endanger the nest.

Dendromyrmex fabricii Rog., *ssp.* *isthmicus* Weber (figure 1).—Two females were taken on Barro Colorado Island, Canal Zone June 28 and 29, 1938 in separate nests. Both were in heavy rain forest and on the underside of palm fronds at heights of six and six and one-half feet above the ground. The nest figured was a cylinder 19×9 mm. with extensions at the ends making a total length of carton of 32 mm. The circular opening was 4 mm. and was proximal in position. The second nest was smaller, being about one centimeter long and equally wide. The proximal end had a large entrance. The female was working on the nest but unfortunately there was no time for further study. The carton was of plant debris of variable sizes and disintegrated in a vial of alcohol where it was hurriedly placed. She