

spots. Spiracles small and whitish. The cervical shield covers the upper half of joint 2, is smooth and wine red. Length of larva 20 mm. When disturbed, it ejects from its mouth a large quantity of dark red fluid.

FIFTH LARVAL STAGE.—Mature larva. Head pale brown, blackish around the mouth with a large round orange spot before the eyes. It is granulated and pilose, the hairs small; and appearing frosted on the upper part of the head. Width 6 mm. The body is much contracted, and much smaller at the extremities. Cervical shield pale brown, smooth, hidden when the insect is at rest. Joint 2 is pinkish below. The body is bright frosted white, thickly covered by little circular depressions, in the centre of each of which is a minute frosted hair. These hairs are longer on the anal plate, and the depression there less deep. Thoracic feet pale brown. Venter and abdominal feet white, without the marks of the dorsum. Length of larva 40 mm., greatest width of body 12 mm., greatest height 10 mm., width of joint 2 4.5 mm. Its place of concealment, at this stage, is formed of several leaves spun together and lined with silk. Immediately after the moult, the body is colored as in the previous stage, but the white color appears gradually in the course of several days.

The leaves the larva has spun together serve as its cocoon, and the pupa is held by several transverse threads around the body, with the cremaster fastened in others.

PUPA.—Robust; abdomen large, eyes prominent. Two short prominences on the head between the eyes. The leg and antennæ cases form a point extending below the wing cases. Cremaster excavate below, with ridges at the sides above, curved downward, blunt, and terminating in a number of brown hooks. The pupa has many small, rounded depressions, and is minutely pilose. Color creamy white, a greenish tint on the thorax and cases, and a yellow stripe on the upper part of the eye. Length 32 mm., diameter of the abdomen 10 mm., diameter of thorax 9 mm., width through the eyes 6 mm.

FOOD PLANT.—Mangrove, *Rhizophora mangle*; larvæ from Dade Co., Florida. I am not sure that the larval stage here first described is the *third*, but consider it most probable.