

the exterior margin somewhat sickle-shaped; the eyes are naked; the tibiae unarmed. Head, thorax and fore wings brownish wine-red; the thoracic hairs show a tipping of white scales under the glass. All the markings obliterate, so that the insect in color and appearance reminds one of *Perigrapha transparens*. The markings are indicated by blackish scales. Reniform marked by an upper and lower blackish clouding, moderate, upright, finely ringed with pale. Orbicular more faintly marked, a little oblique, approximate, also finely ringed with pale. The median shade crosses the wing. Lines not discernible; under the glass the s. t. line is seen to be marked by double black points on the veins. Fringes more clearly red on both wings; secondaries without marks, somewhat evenly fuscous; beneath paler, with traces of the reniform on primaries; secondaries with a dot. This is larger than *crispa*; varying in depth of red, the female the darker. Three specimens. The insect looks like *Gortyna nobris* a little, except in its red color. *Expanse* 35 mil.

DESCRIPTION OF THE PREPARATORY STAGES OF CHIONOBAS JUTTA.

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Eggs laid June 17th., scattered, hatched July 1st.

EGG.—Creamy white: one-twenty-fourth of an inch in diameter; shaped like a nutmeg-melon; marked longitudinally with zig-zag ridges; attached by short foot-stalk.

NEWLY HATCHED LARVA.—One-eighth of an inch long. Head large in proportion to body, honey-yellow, granulated. Body attenuated and ending in two pointed prolongations; pale amber, set with brown tubercles bearing light spines. Dorsal and side lines darker amber. Spiracles dark brown. Head and fore legs bearing a few bristles. The insect feeds with its head downwards on the edge of the leaf. Its food plant is the sedge, *Carex oligosperma*.

The first moult occurred July 6th. The skin was ruptured under the head.

Larva After First Moult.—Length one-fourth of an inch. Colour a delicate shade of pea-green; dorsal, sub-dorsal and side lines a pale warm