

After 4th Moul—Length 1 inch ; stouter, more tapering either way ; the ground color buff ; a broad buff band covers the middle of dorsum, enclosing a macular black line ; markings nearly as before ; the tubercles and base of spines mostly orange. To next moult 20 days.

After 5th Moul—Length 1.2 inch ; 15 days after the moult the larva reached maturity.

MATURE LARVA—Length 1.75 inch ; cylindrical, obese, tapering from middle to either end ; furnished with six rows of tapering, fleshy spines, mostly somewhat recurved ; those of the two dorsal rows, on segments 6 to 10, largest ; the two dorsal spines on segment 2 shorter, about equal to those on 13, and directed forward ; all these silvery-white with black tips ; the spines of the lateral rows smaller, yellowish, those of the lower row orange at base and half way to top ; of the upper lateral row part are orange and at base only ; from each spine proceed several short, straight, fine black bristles ; color of body velvet-black, banded and striped with ochrey-yellow, changing to dull orange or red ; on middle of dorsum a broad band enclosing a macular black line, sometimes obsolete ; at the base of body a darker band ; at the junction of each pair of segments three narrow transverse stripes ending at the lower band ; each of the oblong black spaces on either side of dorsum crossed by short yellow stripes ; the last segment wholly yellow ; spiracles oval, black in white rings ; under side olive-brown ; legs black, pro-legs smoky-brown ; head rather small, rounded, flattened frontally, bilobed, the vertices rounded ; somewhat pilose ; color reddish-ferruginous on upper half, black below. Twenty hours after suspension made chrysalis.

CHRYsalis—Length 1.1 inch ; general shape as in the allied species ; much compressed laterally, the wing cases very prominent and flaring at the base on ventral side ; head case nearly square at top, compressed and excavated on the sides, with two small ocellar prominences ; mesonotum rounded, a little carinated, followed by a deep rounded excavation ; abdomen tuberculated, the two dorsal rows extending to mesonotum ; color brown and yellow over abdomen ; the mesonotum pinkish-brown ; the wing cases brown and more decidedly tinted pink ; each dorsal tubercle shows a large dark patch on the anterior side ; similar patches on the wing cases ; the tubercles on mesonotum black, and each is joined by a black band to a patch back of and near the base ; about the head case several irregular dark or black spots ; on the wings a brown