

***Polyrhachis ypsilon* Emery**

FIFTH INSTAR (=MATURE) LARVA. Length (through spiracles) 9- 13.1 mm. Similar to *P. muelleri* except as follows. Integumentary spinules coarse and short to long and slender, isolated or in short arcuate rows. Body hairs moderately numerous, except few on T1. Of 4 types: (1) 0.088-0.3 mm long, 3- to 5-branched, on T2-AV; (2) 0.05-0.238 mm long, with stout base, lanceolate with denticulate border, on posterior portion of T1 and on T2-AX; (3) up to at least 1.1 mm long, whip-like, on ventrolateral portions of T1-AIV and dorsum of AII-AVI; (4) 0.25-0.4 mm long, uncinata, few, on dorsum of AVII-AX. Cranium transversely subelliptical. Head hairs fewer (ca. 60), 0.038-0.1 mm long, lanceolate with denticulate border. Labrum with ca. 16 hairs (0.075 mm long) and 10 sensilla on anterior surface; ventral surface spinulose but lacking sensilla. Mandible with apex moderately sclerotized, slender. Maxillary integument with a few spinules, isolated or in short rows. Labial palp a small knob.

FOURTH INSTAR LARVA. Length (through spiracles) ca. 5.3 mm. Similar to mature larva except as follows. Body hairs sparse. Of 4 types: (1) 0.05-0.25 mm long, 2- to 5-branched, on T1-AVIII; (2) at least 0.67 mm long, whip-like, on AI-AVII; (3) 0.175-0.325 mm long, uncinata, on T3-AII and AVII-AX; (4) 0.025-0.125 mm long, lanceolate, with denticulate border. Cranium subtrapezoidal, widest ventrally. Labrum with 4 sensilla on ventral surface. Maxillary apex stout, subcylindrical, directed ventromedially. Labial palp a slight elevation; opening of sericteries with a small knob at each end.

THIRD INSTAR LARVA. Length (through spiracles) ca. 2.4 mm. Similar to fourth instar except as follows. Body hairs of 2 types: (1) up to at least 0.725 mm long, whip-like, on T1-AVIII; (2) 0.05-0.225 mm long, uncinata, on T1-T3 and AVII-AX. Cranium transversely subelliptical. Head hairs fewer (ca. 22), 0.04-0.33 mm long, unbranched, longest whip-like. Mandible with short acuminate apex. Maxillary and labial palps small knobs; galea a short subcone.

SECOND INSTAR LARVA. Length (through spiracles) ca. 1.8 mm. Similar to third instar except as follows. Body hairs very sparse, most dorsal to spiracles. Of 2 types: (1) 0.075-0.275 mm long, uncinata, on all somites; (2) 0.15-0.5 mm long, whip-like, on T1-AVII. Anterior surface of labrum with ca. 10 hairs and 8 sensilla. Apex of maxilla a stout subcylinder. Anterior surface of labrum with a few short rows of minute spinules medially.

FIRST INSTAR LARVA. Length (through spiracles) ca. 1.6 mm. Similar to second instar except as follows. Body hairs very few, 0.425 mm long, whip-like, 6 on T1, 4 on T2, 2 on each T2-AII. Head hairs sparse (ca. 26). Labrum shorter; anterior surface with ca. 6 hairs. Mandible smaller, apex short acuminate; anterior and posterior surfaces with a few short ridges; medial surface with a few small denticles apically. Maxillary apex paraboloidal, denticulate. Opening of sericteries a short transverse slit without adjacent elevations.

EGG. 0.51 X 1.14-1.6 mm.

Material studied: Numerous larvae, near Gombak Field Studies Center (30 km N Kuala Lumpur), #157.

LITERATURE CITED

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