

rest being under joint 1, this white band reaching round the sides to the elevation on joint 4, the lateral portion mottled with olive and brown. The boundaries of the light spaces back of joint 4 varying slightly in different specimens, but in all the anterior one reaches on the sides to the first pro-leg. Each side of the dorsum on joints 8, 9, 10 is a dark brown patch with a bright elliptical violet spot in the centre, the patch more or less surrounded with mottlings of white, the last pair of patches nearly surrounded and often partly absorbed by the light that covers the rest of the body. Joints 2, 3, 4 have each four small dots of the same violet hue, while on each side of joints 8, 9 is a cluster of fine blue points. Each joint, except such as are light at this place, has a cluster of these little points below the stigmata. The light space in the middle of the body is more or less mottled with pale olive. Duration of this period to the time it suspended in its loop to change to chrysalis, five days.

Mature Larva—When full grown length 1.75 inches, width of widest part, or joint 4, .56 inch, narrowest part, or joint 10, .25 inch, of joint 11, .31 inch. The anterior part of body much thickened, a prominent ridge extending across joint 1, along the sides and over the back part of joint 4, the latter being the highest part. Inside of this space is somewhat flattened. Back of joint 4 it tapers rather abruptly to the posterior part of joint 5, after which the body is nearly cylindrical. The scent organs about .50 inch, bright dark red. From the time of suspension to casting the last larva skin one day, or more nearly thirty hours.

Chrysalis—Length 1.50 inches, some a little shorter; the ventral side strongly arched, the dorsal incurved but not very strongly; head case long, depressed, the sides parallel, scarcely wider at base, ocellar prominences long, subpyramidal, not divergent, two teeth on the inner edge of each, a dorsal tubercle at the base of each prominence; mesonotum rather low, edges slightly carinated, anterior elevation bilobed; abdomen with a subdorsal row of small tubercles. Surface granulated. Color variable. One form gray marked with dark gray and brown, another form pale green marked with gray and brown, the latter color mostly on the head case and down the ventral part of the thorax.

The pupal period varies. One of the two observed from which these notes were taken produced the imago fourteen days after pupating, making forty days from the time the butterfly was observed depositing the egg to the imago. The other one is at writing still in chrysalis. Fourteen days