

to the outer edge of the white band of *Arthemis* (as in Butt. N. A., 1, pl. 41, figs. 1, 2). It is rarely or never solid white, of clear colour, as in *Arthemis*, but is slight and often nebulous.

3. South of the territory occupied by *Arthemis* is the black species, *Ursula*, flying to the Gulf of Mexico and at the southwest, in Arizona at least. Over a considerable belt, say perhaps of fifty to one hundred miles width, along the southern range of *Arthemis* and northern range of *Ursula*, many examples have been taken which are undisputed *Ursula*, but have more or less distinct traces of a white stripe similar to that seen in *Proserpina* (Butt. N. A., I., pl. 41, figs. 3, 41, for such an example of *Ursula*), though never so heavy as in the most strongly marked examples of *Proserpina*. South of this belt, so far as I am aware, such striped examples have not been taken. *Ursula* without modification or variation occupies many degrees of latitude, but in the southwest comes to be considerably changed and is lost in its variety *Arizonensis*.

4. I myself obtained eggs from a female *Proserpina* at Stony Clove, in the town of Hunter, in the Catskills, elevation 2,000 feet, and from these eggs raised four pupæ from which came three *Arthemis* and one *Proserpina* (this last is figured in Vol. II. before cited), so establishing the dimorphism. The relationship of the two forms had been suspected but never proved. Mr. Mead relates, CAN. ENT. VII., 162, that he obtained about 500 eggs from fifteen females *Arthemis*, and 31 eggs from a single female *Proserpina* at same time, showing the black female to be as fertile as the pied one.

5. I am thoroughly familiar with this part of the Catskills—in fact was born and bred in the town of Hunter—and for many years collected butterflies there, and I can say positively that I have never seen an example of *Ursula* there. It does not fly at all in that elevated district. On reaching the Valley of the Hudson, ten miles west from Stony Clove, *Ursula* begins to appear. Nowhere is the surface in Hunter at less than 1,700 feet, and all the highest peaks of the range are within the town limits. Between the Clove and the river valley are Round Top, High Peak, etc., and the lowest ground is the summit of the Kaaterskill Clove, elevation nearly 3,000 feet.

6. In preparing the text for *L. Arthemis* for Butt. N. A., I made careful enquiries about *Proserpina* all along the line from Maine to Wisconsin, and published the information gained. This form was rare in Maine, not common in south New Hampshire, unknown in Vermont, as also,