

*Bellona*, in all its preparatory stages, is closely like *myrina*. The egg is of the same pattern, but rather longer, and the sides are less rounded; the larvae in first stages can scarcely be distinguished; in the last the spines of second segment are not lengthened as in *myrina*.

*Atlantis* was abundant, but the females set on violet laid no eggs, and I found on dissection that their eggs were yet immature. On 24th Aug. I took a pair of *atlantis* in copulation. It was in the forest, five miles from home, and I tied the pair in my net and suspended it on a tree. The next day, on returning, I found the pair separated, and brought the female home and set on violet. Two days after, 28th, there appeared to be but a single egg laid. The next day I discovered another, and by the 31st she had laid about a dozen, and I compassionated her endeavors and let her fly away. I kept all these butterflies alive on sugar and apple. The eggs hatched in 17 or 18 days. At the same time, I obtained a large number of eggs from other *atlantis*, which duly hatched. All the larvae forthwith began their sleep, as do those of *cybele* and *aphrodite*, *diana* and *idalia*, and that on empty stomachs, for as a rule they eat nothing.

And inasmuch as *atlantis* deposited eggs but a few days after copulation, and *myrina* does almost immediately after, we get light on an early brood of *cybele*, &c. For Mr. C. G. Siewers, of Newport, Kentucky, wrote me last summer that he had taken two pairs of *cybele* in copulation, in July. I think it probable, therefore, that these large species are digoneutic in West Va. and the Ohio Valley. The early brood of *cybele* (butterflies) appears in great force here by 1st June, on the clover blossoms, first the males, and in a few days the females. After the 15th to 20th June, they disappear, and in July I scarcely ever see an example. By 15th August fresh males appear again, and soon after fresh females, and I can always obtain eggs between 1st and 20th Sept. Just so with *aphrodite*. I should not have doubted there being two broods were it not for the fact that the several stages of the larvae which feed in spring are so remarkably prolonged that it seemed unlikely that between 15th June and 15th Aug. the several stages of egg, larva and chrysalis could be passed; and furthermore, that I had repeatedly dissected females of *cybele* in June, and when I could obtain them, in July and first half of August, and never yet found the least appearance of a formed egg. Nothing but fatty masses to represent them. But suddenly, about the middle of August, the eggs begin to take shape, and in a week or ten days are ready to be laid. But the hot weather of July and August, the mercury constantly running