

gynandromorphs, are by no means unknown." He mentions seventy-one published examples of such, of which eight belong to the Papilioninæ: "most of these show complete bilateral distinction, the wings of one side being of one sex, of the other of the opposite sex. Dr. W. J. Holland writes me that he has a *Papilio Polyxenes*" (Mr. Scudder's name for *Asterias*) "collected by Mr. Mead, in which the abdomen is female, while the wings have the male colouring." The example I describe above is, then, just the reverse of the one in Dr. Holland's collection, the abdomen being male, the wings female. I hope to get this specimen, as well as the albino male *Colias*, figured in my Volume III.

### 3. *Papilio Bairdii*.

Mr. Bruce also sent me eggs of *P. Bairdii*, from West Colorado, in 1891, obtained by confining the female over the food-plant; and from these I reared several larvæ to pupa and imago. The butterflies in no way differed from the typical forms. The larvæ were distinctly different from the *Asterias* larvæ, which were feeding at the same time. I have the set of drawings of them by Mrs. Peart, and shall certainly figure the stages in Butt. N. A.

### 4. New species, *Papilio Hollandii*.

Mr. Bruce obtained in West Colorado three examples, male, of a *Papilio* wholly unknown to me, and which lies between the sub-groups of *P. Zolicaon* and *Asterias*. Like the species of the former sub-group, the abdomen is yellow. In all the members of the other sub-group the abdomen is black, with rows of yellow spots. The upper side of both wings in these examples is not distinguishable from the male *Bairdii*, the yellow bands and spots being of the same character, and the anal ocellus has its sub-oval pupil connected by a black ligament with the marginal stripe. On the under side the facies is quite different from *Bairdii*, by reason of the marginal yellow spots being very large and confluent; the spots of the mesial band very large, fully as much so as on the upper side. The abdomen is wholly yellow, except for a black dorsal stripe and four fine lines beneath, two on either side the venter.

It has been suggested that these might be hybrids between *Zolicaon* and *Bairdii*. I know nothing of hybrid butterflies, and if there is