

and antennæ wanting. But the yellow-band was unusually well developed, and showed plainly that the species was not *Asterias*. Afterwards by some years both males and females were received among the collections made by the several Wheeler Expeditions, mostly in very bad condition. Recently Mr. Neumoegen sent me several examples of both sexes, some in fresh and beautiful state, and I shall find among them materials for a Plate in *But. N. A.*, Part viii. The males differ much in the discal band, some showing this to be more than twice its breadth in others. In some the spots are close together, forming a continuous band, divided by the nervules only; in others there is a wide black space between the spots. All have these spots fading gradually out on the basal side, instead of being clear cut; and on the outer side, or towards hind margin, nearly all on primaries are concave, sometimes a few straight, and rarely any of them convex. On the under side there is an absence of the fulvous color which characterizes all examples of *Asterias*, there being at most a slight ochreous discoloration on the outer edges of the spots of the band on secondaries, and sometimes this is wholly wanting, or is restricted to the two or three spots against cell. In fresh examples there is a belt of yellow scales on the black area between the marginal and discal spots of primaries, such as is seen in *Machaon*. The female shows only traces of the discal band, sometimes limited to three or four obsolescent spots on the upper part of primaries, or perhaps entirely across primaries. In one example under view these traces continue across secondaries, but in others they are absent. In all, however, there is a large spot of yellow more or less dense on costal margin of secondaries. So the spots of the marginal row on secondaries seem never to be distinct in the female, and often represented by a few scales only. In both sexes there is much variation in the extent of the blue clusters on outer limb of secondaries. In the original example, male, there is no blue except in a crescent over the anal spot; in other males there are slight clusters on the posterior half of the wing, and in others they extend quite across, but gradually diminish in size towards costa. In the female these clusters are larger and more dense, and reach from margin to margin. On the under side the discal band is always distinct on secondaries, and considerably more so on primaries than appears on upper side. There is a little more of the ochreous also on secondaries.

Mr. Strecker, *Cat.* page 72, has entered this species as *ASTERIAS*, var. e. *UTAHENSIS*, NOB., and puts *Bairdii*, Edw. as a distinct species, but