

with the remark that if his recollection is right, *Bairdii* is very near or perhaps same as var. *Asteroides* (his var. d. of *Asterias*.) *Bairdii* and *Asterias* are two distinct and well marked, though allied species, and my description of the former was explicit enough. So far as yet appears, it is restricted to So. Utah and Arizona, but probably will be found in Mexico. *Asterias* is found also in Arizona (as well as Mexico), and I received several examples ♂ ♀ from the Wheeler Expeditions. They do not differ more from the northern form than individuals of a single brood (from one laying of eggs) are found to differ in W. Va. Invariably they are characterized by deep fulvous spots of under side.

P. ASTEROIDES, Reakirt, Pr. Ac. N. Sci., Phil., 1866, p. 43; not Strecker plate vi. fig. 4, and description.

Reakirt described this species thus: "*Marked nearly as in Asterias; the inner yellow macular row (i. e. discal band) upon the fore wings is almost obsolete, except the spot upon the inner margin, which is prolonged into a dash. Hind wings as in Asterias female, but the blue clouds are reduced to small rounded patches; tail not so long as in Asterias.* Below, a (discal) row of large fulvous sagittiform spots on fore wings. *Secondaries as in Asterias.*" I indicate the important part of this description by italics. The female was not described, and apparently Mr. Reakirt knew only a single male, from Mexico.

Mr. Strecker figures a female but describes both sexes. The male is said to have an inner (discal) band of *eight triangular yellow spots*, and as the contrary is not stated, it is to be inferred that this band is conspicuous, and not obsolete; secondaries a *yellow mesial (discal) band divided into seven parts* (or spots); blue clusters, &c., (which are always found in *Asterias* ♂); beneath the spots of discal band on primaries fulvous; secondaries same; *tails like Asterias.* *Female has the discal band of primaries a little broader and of same width throughout.* His ♂ ♀ are from Costa Rica. He also says that Reakirt's type ♂ has the spots of discal row of primaries much suffused with black, the last few near costa obsolete or nearly so. Nothing said of the remarkable mention by Reakirt that secondaries are like female *Asterias*, excepting in the size of the blue patches; which means that the discal band and marginal spots are as in *Asterias* female.

Plainly here are two different insects described under one name, and Strecker's *Asteroides* is not at all that of Reakirt. The insect figured as a