

therefore, to regard the climatic forms of *Gluphisia* as permanent, probably produced by the action of natural selection to fit them to their surroundings. I class them as local races, by which I mean that they are constant in their

characters, but differ only slightly and in unessential particulars from the first described species.

I give below Dr. Packard's arrangement of *Gluphisia* and my own in parallel columns.

Packard's Arrangement.

1. *G. trilineata* Pack.
var. *ridenda* Hy. Ed.
 rupta Hy. Ed.
2. *G. albofascia* Hy. Ed.
 formosa Hy. Ed.
3. *G. wrightii* Hy. Ed.
 severa Hy. Ed.
 danbyi Neum.
 avimacula Huds.
 var. *slossoniae* Pack.
4. *G. lintneri* Grt.

Dyar's Arrangement.

1. *G. trilineata* Pack.
 race *ridenda* Hy. Ed.
 race *quinquelinea* Dyar.
2. *G. albofascia* Hy. Ed.
 wrightii Hy. Edw.
 var. *rupta* Hy. Ed.
3. *G. formosa* Hy. Ed.
4. *G. severa* Hy. Ed.
 var. *danbyi* Neum.
 race *avimacula* Huds.
 var. *slossonii* Pack.
5. *G. lintneri* Grt.

In tabular form, I separate the species as follows:—

Size small; no basal yellow dot (§ *Gluphisia*).

With a yellow (or black) central band on primaries.

Markings distinct *trilineata*.

Markings confused and irrorate *formosa*.

Pale, with no distinct yellowish markings *albofascia*.

Size large; a basal yellow dot on median vein (§ *Eumelia*).

A yellow angular discal dot *severa*.

No yellow discal dot *lintneri*.

NOTES.—On September 12th I caught, in Brookline, Mass., a large, battered *Papilio cresphontes*, which was flying rather feebly about some *Salvias*. It is the only one I have seen flying in Massachusetts.

At Nonquitt, Mass., Miss Ida M. Eliot and I had two larvae, Arctians unknown to us and certainly not *acrea*, of a cream-white color. The body was cream-white with three broken, blackish, longitudinal lines. There

were no dark hairs. These larvae we fed on wild indigo-plant, *Baptisia tinctoria*, and after a few days the larger larva moulted, coming out of a deep, glossy, indigo-blue color, almost black. The smaller larva first moulted of a deep-blue gray color, then again of a deep blue like the other. These larvae grew to a length of nearly 3 inches, and were very striking in appearance.

Caroline G. Soule.



Soule, Caroline Gray. 1893. "Notes." *Psyche* 6, 530–530.
<https://doi.org/10.1155/1893/40379>.

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