## Vol.8: nos.1-2

## (Abstract) TAXONOMY AND DISTRIBUTION IN THE GENUS *PHILOTES*by Rudolph H. T. Mattoni

- 1. The genus *Philotes* Scudder is characterized in North America by four distinct types of male genitalia, based on the conformation of the valves.
- 2. The morphology of the European section of this holarctic genus suggests a phylogenetic relationship of these types.
- 3. It is suggested that the basic type of valve is of the Glaucopsyche Phædrotes type, which is relatively unmodified in the enoptes group of Philotes.
- 4. P. battoides Behr is a closer relative to the European section of the genus than to P. enoptes Bdv., and is probably of more recent origin.
- 5. The European section of the genus consists of three species which are more closely related to one another than are any of the North American section, except for the four species of the *enoptes* complex.
- 6. P. speciosa H. Edw. is a species of obscure relationships to any members of the subfamily Glaucopsychinæ examined, and may be a relict species.
- 7. P. sonorensis F. & F. is not congeneric with the remainder of the genus as presently conceived, and a new generic name should be erected for all species other than P. sonorensis discussed in this paper.
- 8. Philotes battoides Behr and P. glaucon Edw. are conspecific, under the name battoides, by priority.
- 9. Parallel evolution in sympatric populations of *P. enoptes* and *P. battoides* in wing pattern convergence may be explained by recombination under selection of common genetic factors.
- 10. A new arrangement of the "genus" *Philotes* is proposed, but until a more complete investigation of the entire subfamily is undertaken, it must remain a tentative working hypothesis:

## Philotes (Turanana?)

- P. speciosa H.Edw.: northwestern Mohave Desert, lower San Joaquin Valley, Calif., U. S. A.
- 2. P abencerragus group: Mediterranean region
- 3. P. vicrama group: central Europe to Himalayas
- 4. P. baton group: west and south Europe
- 5. P. battoides group

battoides Behr: arctic alpine High Sierra

oregonensis B. & McD.: Pacific northwest

intermedia B. & McD.: northern California, west side of Sierras

glaucon Edw.: east side of Sierra Nevada, Modoc to Tulare Co.

bernardino B. & McD.: southern Sierra, western Mohave to coast, to northern Baja California

centralis B. & McD.: southern Rockies, Utah, Colorado, no. Arizona.

6. P. enoptes group

enoptes Bdv.: Sierra Nevada, western Nevada, no. Calif.

dammersi Comst. & Henne: Colorado and Mohave deserts to central Arizona ancilla B. & McD.: Rockies, Montana to New Mexico

- 7. P. mohave Wats. & Comst.: central Mohave and Colorado deserts
- 8. P. spaldingi B & McD.: western Rockies western Calif. to southeastern Arizona

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