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ON CERTAIN SPECIES OF SATYRUS.

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I. NEPHELE.—Kirby, Faun. Bor. Amer., 1837, described this species as follows: "Wings brown; primaries both above and below with a paler submarginal broad band including two eyelets; the upper ones surrounded by a paler atmosphere, with a black iris and white pupil; on the under side the atmosphere of the eyelets is most distinct and forms a kind of glory round them," etc. Nothing is said of the sex, but apparently this is the description of a female. The wings of the male are blackish-brown, usually of uniform shade throughout—that is, in the typical male, corresponding to the female of Kirby. But there is a frequent departure from this type in the direction of *Alope*, the "pale atmosphere" about the ocelli appearing in the male, and in both sexes gradually widening and becoming less obscure till it culminates in a clear yellow band. When this is reached we have *Alope*, Fabr. So that *Nephele* intergrades completely with *Alope*. But this is not everywhere and always. The metropolis of the typical *Nephele* is in Canada and northern New England, that of *Alope* in the States south of New York. There is a line running about with the southern boundary of New York, or it may be, in Pennsylvania, below which *Alope* holds sole possession, and no tendency is discoverable towards *Nephele*. In the extreme northern area, if there is any departure from typical *Nephele*, it is the exception, not the rule.

Mr. Scudder, in his essay on The Distribution of Insects in New Hampshire, 1874, says of *Alope*: "This insect is tolerably abundant, sometimes very common, in the southern half of New England. The most northern localities . . . are Norway, Me., Thornton and Shelburne, N. H., and Sudbury, Vt." Thornton is just south of the White Mountains, and Shelburne is close by the mountains on the northeast. Of *Nephele* he says: "It is found over the whole northern half of N. E. in great abundance. The only locality in which I have met with it is in Massachusetts, in the elevated region about Williamstown," &c.