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On two subspecies of Parnassius charltonius GRAY, 1853: ssp. anjuta STSHETKIN, KAABAK & STSHETKINA, 1987 and ssp. ljudmilae STHSETKIN & KAABAK, 1985

(Lepidoptera, Papilionidae)

by

L. V. KAABAK & V. V. LESIN

received 6.X.1993

We previously reported the discovery of two new subspecies of *Parnassius charltonius* GRAY, i.e. ssp. *anjuta* from mountain range Mynkhadzhir (Eastern Pamir) and ssp. *ljudmilae* from the western region of the Hissaric Mountain Ridge (Central Asia) (STSHETKIN & KAABAK, 1985; STSHETKIN, KAABAK & STSHETKINA, 1987; KAABAK & LESIN, 1990; LESIN & KAABAK, 1991). Recently, new data on these subspecies has been obtained.

More than forty specimens of *P. charltonius anjuta* gathered in 1983, 85, 87, 91 and 93 were examined and comparisons made with specimens of the most similar *P. charltonius deckerty* from Kashmir. In addition to the differences between these subspecies which have been described before (STSHETKIN & KAABAK, 1985; KAABAK & LESIN, 1990), the following new and stable characteristic features of *P. charltonius anjuta* have been discovered: the forewing postdiscal band of ssp. *anjuta* adjoins the submarginal band along M2 as a projecting rectangle but not as an acute projection as in ssp. *deckerty*; the discal spot of the forewing remains towards the costal edge in contrast to the widening spots of ssp. *deckerty*. On the hindwing of ssp. *anjuta* the discal cell veins and between the cell and Sc is absent.

More than thirty specimens of *P. charltonius ljudmilae* gathered in 1985, 89 and 91, were compared to a series of the similar *P. charltonius romanovi* from the Alaisky Mountain Ridge. The differences between these subspecies have been noted in LESIN & KAABAK (1991). The ssp. *ljudmilae* has a more extensive dark tracery on the forewing, a wider and longer submarginal band, two white ocelli in the big red postdiscal spot on the hindwing (in contrast to the one ocellus of ssp. *romanovi*), large and more blue dusted submarginal spots, and a broader dark dusting along the discal cell veins of the hindwing.

Despite extensive investigations of ssp. *anjuta* and ssp. *ljudmilae*, occurrance was only found in one small and localized area for each subspecies. It should be emphasized that these areas are considerably more remote than the habitats of other subspecies of *P. charltonius*.

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Explanation of colour plate IV (p. 425)

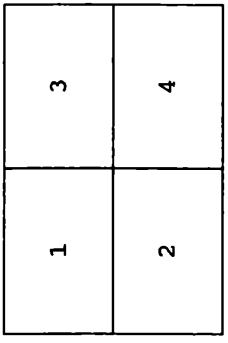

Fig. 1: *P. charltonius anjuta* ♂, 25.VII.1985.
Fig. 2: *P. charltonius anjuta* ♀, 2.VIII.1983.
Fig. 3: *P. charltonius ljudmilae* ♀, 11.VIII.1989.
Fig. 4: *P. charltonius ljudmilae* ♂, 10.VIII.1989.

Adresses of the authors

L. V. KAABAK
Moscow Society of Nature investigation
Hertsen st. 6
Moscow 103009
Russia

V. V. LESIN
Moscow Society of Nature Investigation
Hertsen st. 6
Moscow 103009
Russia

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Colour plate IV

KAABAK, L. V. & V. V. LESIN: On two subspecies of *Parnassius charltonius* GRAY, 1853: ssp. *anjuta* STHSTETKIN, KAABAK & STSHETKINA, 1987 and ssp. *ljudmilae* STSHETKIN & KAABAK, 1985 (Lepidoptera, Papilionidae). – Atalanta **25**(1/2):161–162.

Fig. 1: *P. charltonius anjuta* ♂, 25.VII.1985.
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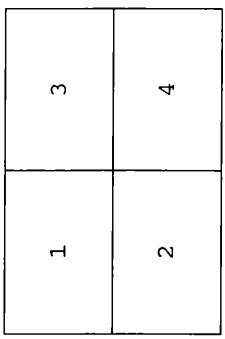

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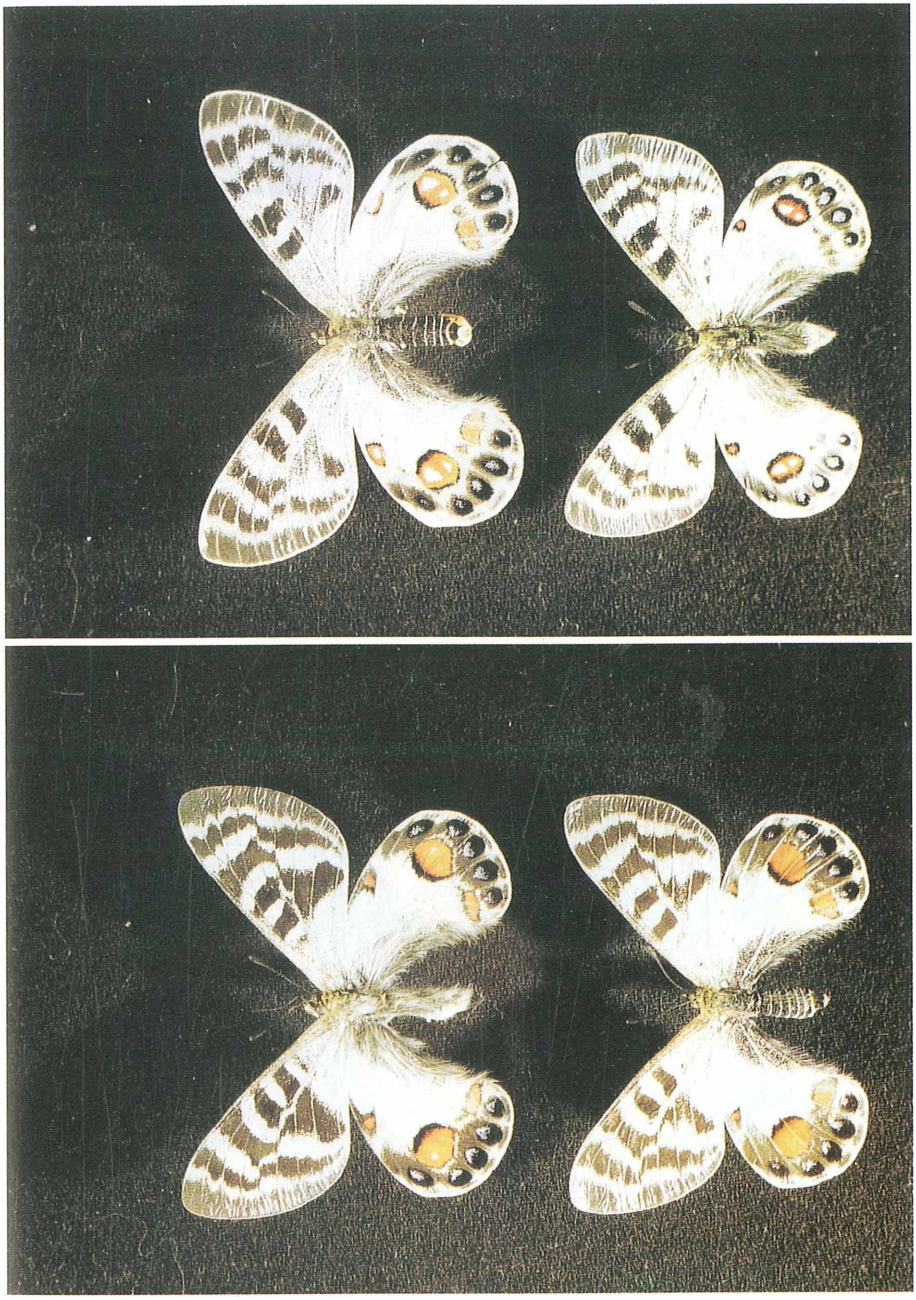
Colour plate IV



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