

## On the finding of *Polyommatus icadius* (Groum-Grshimaïlo, 1890) (Lepidoptera: Lycaenidae) in the plains of the south-east of European Russia

## О нахождении *Polyommatus icadius* (Гроум-Гршимаïло, 1890) (Lepidoptera: Lycaenidae) в равнинной части юго-востока европейской России

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KEY WORDS: *Polyommatus icadius*, south-east Russia, new finding.

КЛЮЧЕВЫЕ СЛОВА: *Polyommatus icadius*, юго-восточная Европа, новое местонахождение.

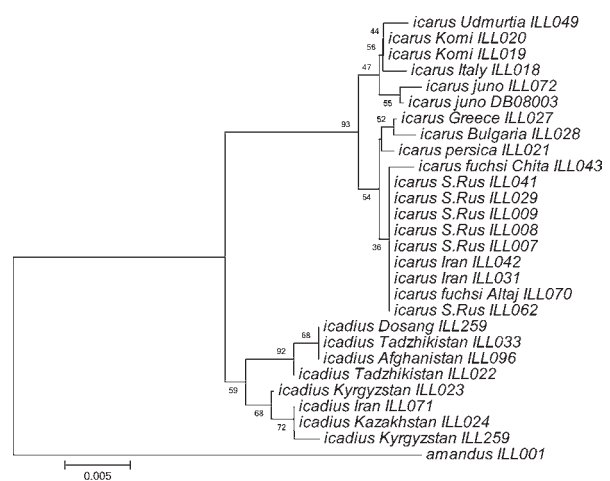
ABSTRACT. From vicinity of Dosang in the Astrakhan Province (Russia) we record a mountainous blue butterfly species *Polyommatus icadius*. Molecular genetic markers (COI and ITS2) are studied.

РЕЗЮМЕ. Из окрестностей пос. Досанг в Астраханской области России указывается горный вид голубянок *Polyommatus icadius*. Изучены молекулярно-генетические маркеры (COI and ITS2).

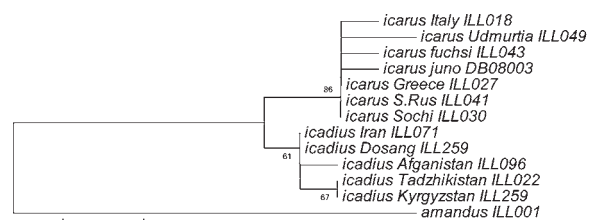
*Polyommatus icadius* (Groum-Grshimaïlo, 1890) is a widespread species in the mountains of Central and Eastern Palearctic (Central Asia, Dzungaria mountains of South East Kazakhstan and North-West China, Northern Mongolia, Altai, Tuva, Iran, Afghanistan, North-Western Caucasus), has not yet been discovered at the altitudes under 1000 m above sea level.

In 2010, S.K. Korb collected in the Astrakhan region of Russia a small series of *P. icadius*: 3 ♂♂, Russia, Astrakhan area, Dosang vill., 2.05.2010, S. Korb (Figs 1–2). Butterflies were collected in the same habitat (Fig. 3), where in 1999 was found other Central Asian blue butterflies species — *Praepphilotes anthracias* (Christoph, 1877) [Eitschberger, Zolotuhin, 1999]. However, the complete confidence that this is *P. icadius*, was not present: *P. icarus* (Rottemburg, 1775) was known from this region [Lvovsky, 1971; Morgun, 2003]. To determine the species of collected specimens we analyzed two nucleotide sequences: mitochondrial COI (GenBank accession No. KX247290) and nuclear ITS2 (GenBank accession No. KX247292).

This analysis confirmed that our specimens belong to *P. icadius* on both sequences (Figs 4–5).



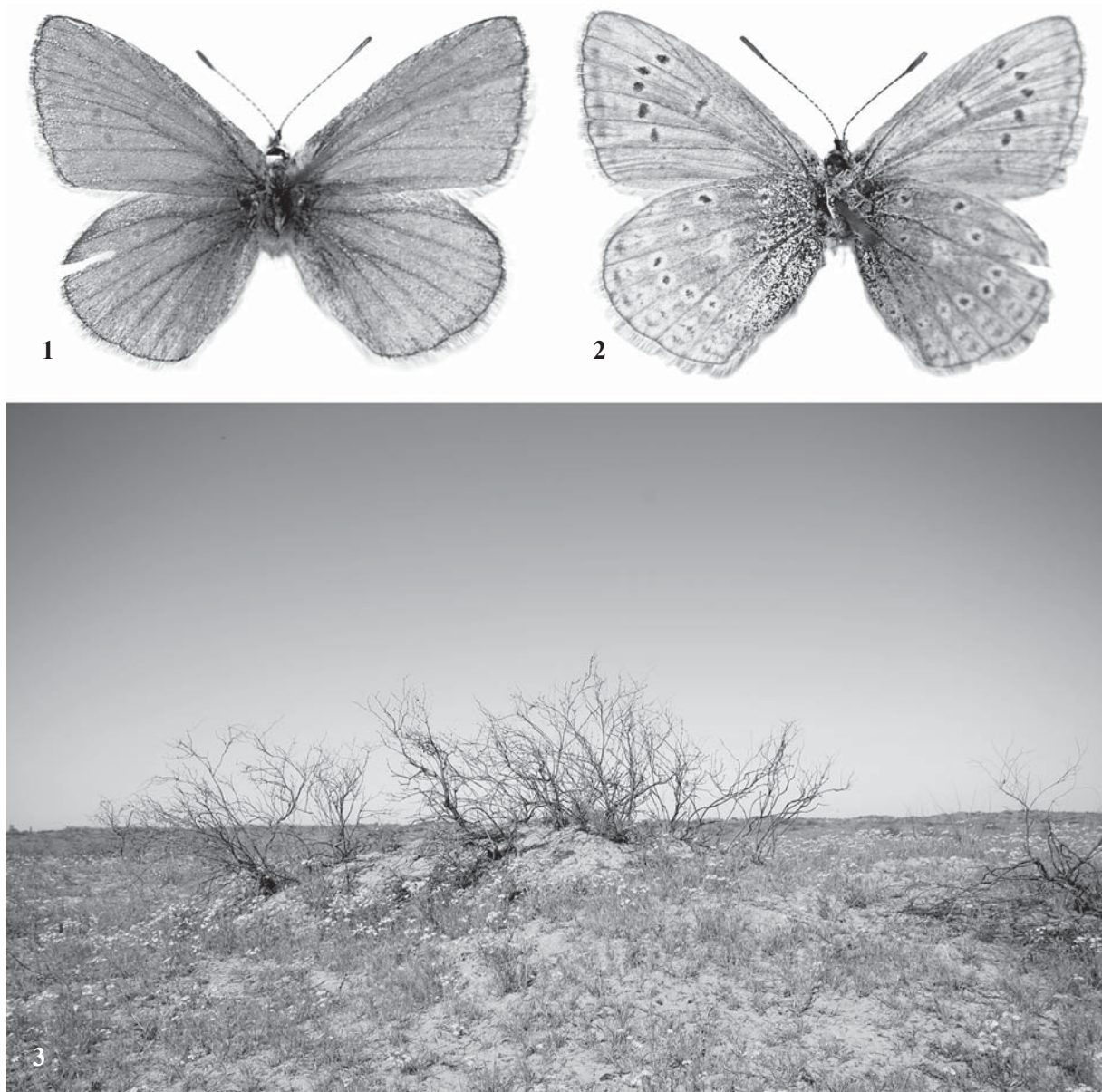
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Figs 4–5. ME-cladograms of COI (4) and ITS (5) sequences within the group *P. icarus* – *P. icadius*.

Рис. 4–5. МЕ-деревя последовательностей COI (4) и ITS (5) в группе *P. icarus* – *P. icadius*.



Figs 1–3. *Polyommatus icadius* (Groum-Grshimaïlo, 1890): 1 — dorsal view; 2 — ventral view; 3 — habitat.  
 Рис. 1–3. *Polyommatus icadius* (Groum-Grshimaïlo, 1890): 1 — сверху; 2 — снизу; 3 — местообитание.

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