

***Aradus frigidus* KIRITSHENKO, 1913, and *Aradus italicus*
KORMILEV, 1970**

(Hemiptera: Aradidae)

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(With 6 Textfigures)

Manuskript eingelangt am 5. April 1976

Abstract

The author discusses characters of *Aradus frigidus* KIRITSHENKO, 1913, and *Aradus italicus* KORMILEV, 1970. The latter was put in 1974 by TAMANINI into synonymy of the former, but they are not conspecific, so that *Aradus italicus* KORMILEV, 1970, should be taken out of synonymy of *Aradus frigidus* KIRITSHENKO, 1913.

KIRITSHENKO described *Aradus pallescens frigidus* from East Siberia (1913: 114). He was not sure, if it is only a subspecies of *pallescens* H. S., 1839, a species widely distributed in Middle and Southern Europe, but absent in Northern Europe and Siberia, or it is a different species?

In 1970, I have described *Aradus italicus* from Northern Italy (1970: 201). The type specimen (♀) is preserved in the Naturhistorisches Museum Wien.

In 1974, TAMANINI put *Aradus italicus* KORMILEV, 1970, into synonymy of *Aradus frigidus* KIRITSHENKO, 1913, claiming, that the former agrees in all characters with the latter, except it is somewhat darker (1974: 65), but without actually comparing them.

By good luck, TAMANINI gives very good photos of the types of *A. frigidus* KIRITSHENKO, of *A. italicus* KORMILEV, and of what he considered as *A. frigidus* from Italy.

Judging by the photos, we can see at once, that *A. frigidus* KIRITSHENKO, 1913, is not conspecific with *A. frigidus*, TAMANINI, 1974. The shape of scutellum is quite different: triangular with rounded tip in the former, and with parallel sides on basal 2/3 and converging on apical 1/3, with acute tip, in the latter.

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Relative length of antennal segments I to IV are different also: 9 : 25 : 18 : 14 in *A. frigidus* KIRIT. and 11 : 29 : 23 : 19 in *A. frigidus*, TAMANINI; ratio length of antennae: width of head across eyes is 31,5 : 13, or 2,42 : 1 in the former, and 33,0 : 12,5, or 2,64 : 1 in the latter, the difference is quite large.

Now, comparing *A. frigidus* KIRITSHENKO with *A. italicus* KORMILEV, we may see, that the shape of pronotum is quite different, relatively wider

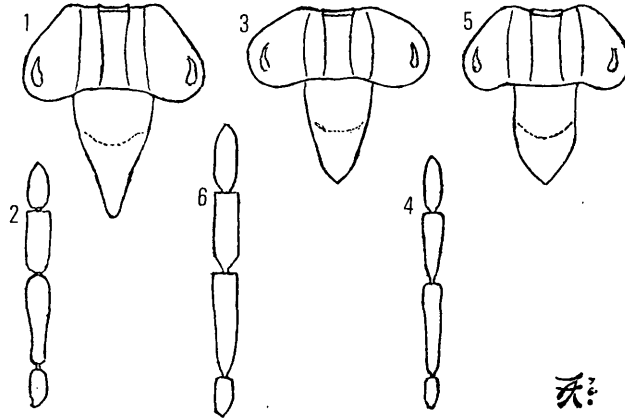


Fig. 1. *Aradus frigidus* KIRITSHENKO, ♀, pronotum and scutellum; Fig. 2. same, antenna. Fig. 3. *Aradus italicus* KORMILEV, ♀, pronotum and scutellum; Fig. 4. same, antenna. Fig. 5. *Aradus frigidus* TAMANINI (not KIRITSHENKO), ♂, pronotum and scutellum; Fig. 6. same, antenna.

and more evenly rounded in *A. italicus*; ratio length: width of pronotum is 9,5 : 22 in *A. frigidus* and 9 : 24 in *A. italicus*; scutellum in *A. italicus* is less converging on basal 2/3, and more on apical 1/3, the tip is acute. Antennal segments III are also quite different: cylindrical in *A. frigidus* and clearly tapering toward base in *A. italicus*. That is enough to consider *A. frigidus* and *A. italicus* not conspecific, so more that one is a Siberian species and another South European. *Aradus italicus* KORMILEV, 1970, must be taken out of synonymy with *Aradus frigidus* KIRITSHENKO, 1913. I leave it to Mr. TAMANINI to decide if *Aradus italicus* KORMILEV, 1970, and *Aradus frigidus*, TAMANINI (not KIRITSHENKO), 1974, are conspecific or not ?

References

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