

FIGURE 1. A Bayesian tree of the *Ameletus sirotskii* sp. nov., *A. allengaensis* sp. nov., *A. camtschaticus* and one out group, *A. montanus* based on the mitochondrial cytochrome c oxidase I (COI) barcode gene sequences (658 bp). Values beside nodes are posterior probabilities.

FIGURES 2-7. *Ameletus allengaensis* sp. nov., male imago. 2, mesonotum, dorsal view; 3, sternum IX, styliger and gonostyli; 4, penis, ventral view; 5, penis, dorsal view; 6, penis, lateral view; 7, genitalia, lateral view.

FIGURES 8-10. *Ameletus allengaensis* sp. nov., male imago. 8, lateral view; 9, ventral view; 10, dorsal view.

FIGURES 11-12. *Ameletus allengaensis* sp. nov., male imago. 11, penis, lateral view; 12, ventral plate of the penis, lateral view.

FIGURES 13-15. *Ameletus allengaensis* sp. nov. 13, female imago, lateral view; 14-15, larvae. 14, head, dorsal view; 15, larvae, dorsal view.

FIGURES 16-28. *Ameletus allengaensis* sp. nov., larva. 16, labrum, dorsal view; 17-18, apices of mandibles, dorsal view: 17, left mandible; 18, right mandible; 19, labium, dorsal view; 20, femur of foreleg; 21, abdominal terga; 22, abdominal sterna; 23, posterior margin of abdominal tergum IV; 24, abdominal sternum IX, female; 25-28, gills: 25, gill I; 26, gill II; 27 gill IV; 28 gill VII. Scale (mm): 25-28=0.2.

FIGURES 29-31. *Ameletus allengaensis* sp. nov., egg. 29, general view; 30, form of micropiles and knobs; 31, structure of chorion. The arrow shows the micropiles (mp).

FIGURES 32-36. *Ameletus sirotskii* sp. nov., male imago. 32, mesonotum, dorsal view; 33, sternum IX, styliger and gonostyli; 34, penis, ventral view; 35, penis, dorsal view; 36, penis, lateral view.

FIGURES 37-38. *Ameletus sirotskii* sp. nov., male imago. 37, lateral view; 38, ventral view.

FIGURES 39-40. *Ameletus sirotskii* sp. nov., male imago. 39, penis, ventral view; 40, ventral plate of the penis, lateral view.

FIGURES 41-42. *Ameletus sirotskii* sp. nov., larva. 41, dorsal; 42, head, dorsal view.

FIGURES 43-55. *Ameletus sirotskii* sp. nov., larva. 43, labrum, dorsal view; 44-45, apices of mandibles, dorsal view: 44, left mandible; 45, right mandible; 46, labium, dorsal view; 47, femur of foreleg; 48, abdominal terga; 49, abdominal sterna; 50, posterior margin of abdominal tergum IV; 51, abdominal sternum IX, female; 52-55, gills: 52, gill I; 53, gill II; 54 gill IV; 55 gill VII. Scale (mm): 52-55=0.2.

FIGURES 56-58. *Ameletus sirotskii* sp. nov., egg. 56, general view; 57, structure of chorion; 58, form of micropiles. The arrow shows the micropiles (mp).

FIGURES 59-61. *Ameletus camtschaticus*, male imago. 59, mesonotum, dorsal view; 60, penis, ventral view; 61, penis, lateral view.

FIGURES 62-63. *Ameletus camtschaticus*, male imago. 62, penis, ventral view; 63, ventral plate of the penis, lateral view.

FIGURES 64-65. *Ameletus camtschaticus*, larva. 64, dorsal view; 65, head, dorsal view.

FIGURES 66-78. *Ameletus camtschaticus*, larva. 66, labrum, dorsal view; 67-68, apices of mandibles, dorsal view: 67, left mandible; 68, right mandible; 69, labium, dorsal view; 70, femur of foreleg; 71, abdominal terga; 72, abdominal sterna; 73, posterior margin of abdominal tergum

IV; 74, abdominal sternum IX, female; 75-78, gills: 75, gill I; 76, gill II; 77 gill IV; 78 gill VII.
Scale (mm): 75-78=0.2.

FIGURES 79-80. *Ameletus allengaensis* **sp. nov.**, and *Ameletus sirotskii* **sp. nov.**, localities.
Allenga River (Amurskaya Oblast'), Russia.

FIGURES 81-82. *Ameletus allengaensis* **sp. nov.**, and *Ameletus sirotskii* **sp. nov.**, localities. 81,
Bolshoi Garmakan River; 82, Bolshaya Erakingra River (Amurskaya Oblast'), Russia.