

# A new species of *Cheumatopsyche* (Trichoptera, Hydropsychidae) from Uganda

János OLÁH

*Cheumatopsyche obubui* new species

**Description.** Male (in alcohol): pharate male under transformation, just prior to emergence as easily recognized by its dark eyes, dark unexpanded wing pads, darkening sclerites on head, thorax and legs and fully pigmented genitalia. – Male genitalia: Abdominal segment 9 fused annularly, short, tergum and sternum equally short; anterior margin of segment 9 produced with high rounded lobes of pleura in lateral view; apical lobe on posterolateral margin well developed, located at the bases of gonopods; spine row on posterior margin of segment 9 intermittent, present on the tergal corner, shortly disrupted below tergal corner and well developed on apical lobe. Inter-segmental profile between segments 9 and 10 high and right angled. Segment 10 short, nearly quadrangular in lateral view; apex of unisetose dorsomesal lobe narrow and bluntly triangular in dorsal view; ventroapical setose lobe composed of an additional, probably apomorphic long geniculate finger-like process visible as originating from apicomeres area of cerci and of the usual, probably plesiomorphic short pair of apical digitate processes with setode apex; cerci forming a setose protuberance located distad and laterad on segment 10; long transverse and shorter horizontal sutures present. Gonopods robust, coxopodite much longer than apex of segment 10, slightly s-shaped, with dilated apical half; harpago slender with very broad basal part, slightly upwardly directed in lateral and straight in ventral views. Phallosome somewhat constricted midway; both the sclerotized endothecal process and the phallosomal sclerites truncated apicad.

**Holotype** male and two male paratypes (all pharate): Uganda, Mukono district (Central Uganda), 0°21'N, 32°58'E, 1182m, 24.11.2009, leg. J.P.Obubu, in the collection of the author. Etymology: named after the collector J.P.Obubu.

**Diagnosis:** This new species belongs to the small *Cheumatopsyche digitata* species group (OLÁH & al. 2008). This group has a shortened segment 10 with elongated, almost filiform setose ventroapical lobe or rather a complex of lobes; a shorter apical digitate process and a much longer

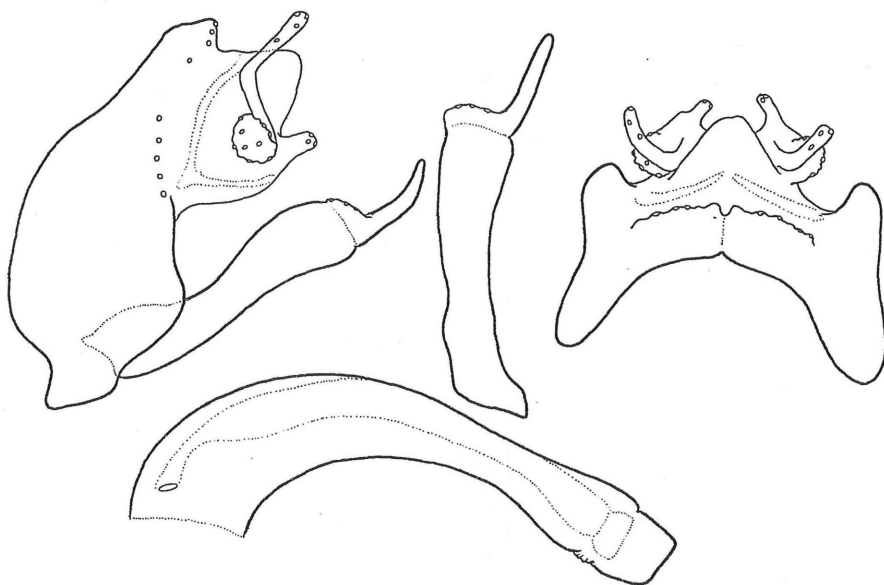
filiform pair of processes attached to the wart-like cerci. This species group is closest to the species groups with a bilobed segment 10, but differentiated by the much longer ventroapical lobe and by the shortened body of segment 10. Wart-like lateral setose area, the vestigium of cerci located distad on segment 10. This species group is distributed in the Afrotropical biogeographical region except for one species, *C. thaba* MOSELY, which occurs in the Yemen. Another species, *C. ernstheissi* MALICKY 1997, was described from Brunei having a very short segment 10 and very long ventroapical lobe. All the species have very broad harpago on the gonopods both in lateral and ventral views. The harpago is somewhat slender, but only in ventral view in *C. tournii* GIBON, GUENDA & COULIBALY 1994. *Cheumatopsyche obubui* n.sp. is closest to *C. tournii*, but differs by having the long filiform pair of processes on segment 10 clearly geniculate, not arching; harpagones slender both in lateral and ventral view not only in ventral view; harpagones straight in ventral view, not curving; sclerotized endothecal processes truncate, clearly straight-cut apicad, not rounded.

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Address of author: János Oláh, Tarján u. 28, H-4032 Debrecen, Hungary. Email: Profolah@gmail.com



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Autor(en)/Author(s): Olah Janos

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