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**A new species of *Setodes*: *S. yalaensis* (Leptoceridae, Trichoptera) from southern Thailand.**

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**Abstract.** A new species *Setodes yalaensis* is described and figured based on adult male characters.

**Key words:** Leptoceridae, *Setodes*, new species, Thailand.

**Introduction**

The biodiversity of caddisflies in Thailand has been studied for almost 30 years. At the moment, more than one thousand species have been found (CHANTARAMONGKOL & al. 2010), and now the number of newly detected species has become low. However, there are some areas where collecting was not intensive, such as the forest areas near the border with Malaysia where the biodiversity is also rich.

The genus *Setodes* RAMBUR 1842 is one of the 12 genera of Leptoceridae found in Thailand where 63 species have been found (MALICKY 2010). In southern Thailand, LAUDEE & PROMMI (2011) reported that 105 species of Trichoptera were collected from the Tapi River, Surat Thani Province. MALICKY & PROMMI (2006) published 21 new species from the south of the country.

The authors are studying the biodiversity of caddisflies in the forest area near the border with Malaysia, and describe a new species here as a first result of this research.

The new species was collected by a UV pan light trap (12 V, 10 W) near a stream. The specimen is preserved in 70% ethanol. The male genitalia were drawn using a compound microscope with a drawing tube. The holotype is deposited in the Princess Maha Chakri Sirindhorn Natural History Museum (PSUNHM), Prince of Songkla University, Hat Yai Campus, Hat Yai district, Songkla Province, Thailand.

***Setodes yalaensis* n.sp.**

Holotype male: Thailand, Yala Province, Bangnang Sa Ta Subdistrict, 6°27'N, 101°23'E, ca. 250m asl., 10 October 2014, leg. Sarunee Esor.

Length of male forewing 4 mm. Head, thorax, abdomen and wings white. Male genitalia (see the figures): Segment 9 in lateral view oval. Preanal appendage thumblike, with setae. Segment 10 rectangular, curved downwards dorsally, curly margin apically. Inferior appendage divided into two lobes; subdorsoapical lobe triangular with setae subapically; ventrobasal lobe cylindrical, bent and slanted 45 degrees upwards, pointed apically. Dorsal view: segment 10 concave with a deep U-shape, blunt apically. Aedeagus gaff-like, curved, bifurcate subapically. Ventral view: segment 9 rectangular with a shallow U-shaped incision centroapically, curved basally. Ventrobasal lobe of inferior appendage cylindrical, bent 45 degrees subapically. Phallus complex: aedeagus gaff-like, paramere beak-like.

The new species is similar to *Setodes fluvialis* KIMMINS, 1963, *S. imperfectus* ULMER, 1951, and *S. gangaya* GORDON & SCHMID, 1987. It is distinguished by the shape of phallus, with the aedeagus of the new species bifurcate subapically and crossing each other subapically in dorsal view. The ventrobasal lobe of inferior appendage bent slanted 45 degrees subapically. In contrast to the other species, the apex of the aedeagus is curved and not branched, and the ventrobasal lobe of the inferior appendage is curved.

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Figures: Male genitalia of *Setodes yalaensis* n.sp.: L lateral view, V ventral view.

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Artikel/Article: [A new species of Setodes: \*S. yalaensis\* \(Leptoceridae, Trichoptera\) from southern Thailand 28](#)