

A new species of the genus *Thremma* McLachlan, 1876 from northeastern Turkey (Trichoptera, Uenoidae)

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Abstract. A new *Thremma* species, *T. artvinica* sp. n., from northeastern Turkey is described and figured. It is the third species of *Thremma* in this country and resembles *T. anomalum* McLACHLAN, 1876. The localities and a map of the distribution of *Thremma* species in Turkey are given.

Key words. Trichoptera, *Thremma*, new species, distribution, Turkey.

Thremma anomalum McLachlan, 1876 was the first species of the genus, and it was found in Greece and the Balkans; later it was discovered in northwestern Turkey (SIPAHILER & MALICKY, 1987). *Thremma martynovi* MALICKY, 1976 was the second species, found in Trabzon province in northeastern Turkey (MALICKY, 1976). Later *T. anomalum* was discovered in many parts of northern Anatolia, from the northwestern to the northeastern part; Trabzon province is the northernmost limit of its distribution. *Thremma martynovi* was also discovered in many places in northeastern Turkey (SIPAHILER, 2010, 2012, 2014). The new species occurs only in Rize and Artvin provinces (Fig. 1).

Thremma artvinica sp. n. (Figures 2-6)

Material: Holotype male: Turkey, Artvin, Şavşat, Meydancık, Gomvan Yaylası, 1950 m, 41°28'N, 42°05'E, 1.8.1995. - Rize, Ayder, Yukarı Kavron, 3000 m, 40°50'N, 41°07'E, 8.8.1989, 3 males, 2 females (Paratypes), leg. and coll. Sipahiler.

Antennae, maxillary pulps, legs and wings pale brown; the length of the anterior wing of males 6- 6.3 mm. In the male sternite VII possesses 6 teeth, two of which are strong and found in the middle, the apex with large and rounded plates, two others on the left part have smaller rounded plates and the last two are thin, smaller and without rounded plates (Fig. 2).

Male genitalia (Figs. 3-6). Segment IX roundly dilated on the ventral half; dorsally the median portion protrudes as an oval lobe. The preanal appendages are rounded, laterally the ventral portion is thin. The intermediate appendages are long and straight, pointed at the apex; the ventral plate large at the base, the posterior part, broad, deeply excised in the middle forming two oval lobes directing somewhat to the sides.

Remarks. *Thremma artvinica* sp. n. resembles *T. anomalum* McLachlan, 1876, but the following differences are seen. In *T. anomalum* the preanal appendages are nearly quadrangular and the intermediate appendages are shorter and dorsally curved on the sides (MALICKY, 2004), whereas in the new species the preanal appendages are rounded and the intermediate appendages are long and straight; in addition, the apical part of the ventral plate of *T. anomalum* small, nearly quadrangular with a small excision on the apical edge. The ventral teeth of sternite VII are also different from those of *T. anomalum*. In Turkey the specimens of *T. anomalum* have 1-3 ventral teeth of variable shape and sum on sternite VII. In the Rize populations of *T. artvinica* sp. n. the number of teeth is five and in Artvin province six.

Thremma anomalum McLACHLAN, 1876

Material examined: Turkey, **Bolu**, Abant, 1297 m, 40°36'N, 31°17'E 19.6.1982, 1 male, same place, 6.6.1983, 2 larvae; Yedigöller, 780 m, 40°50'N, 31°35'E, 8.11.1993, 1 male; Yeniçağa, Dörtdivan, Çetikören, 1500 m, 2.9.2006, 11 males, 1 female; Mudurnu, a source spring near Karamurat Lake, 714 m, 40°33'N, 30°57'E, 25.6.1994, 4 males, 1 female; Mudurnu, Akyokuşkavağı Village, Sülüklügöl, 1200 m, 40°32'N, 30°52'E, 25.6.1995, 3 males; **Karabük**, Safranbolu, Bulak, Mencilis, 41°16'N, 32°27'E, 690 m, 28.8.1993 (light), 4 males, 1 female; same place, 13.7.2011, 4 males; **Zonguldak**, Çaycuma, Çayır Cave, 130 m, 41°27'N, 31°59'E, 23.6.2011, 1 female; **Düzce**, Kardüz Yaylası direction, 1054 m, 40°41'N, 30°58'E, 23.9.2012, 1 male; Hendek, Benlevit Village, Altındere (source of Dinsiz Spring), 182 m, 40°40'N, 30°41'E, 15.8.2013, 1 male; Gölyaka, Hendek direction, Kadifekale, source, 415 m, 40°43'N, 30°51'E, 15.8.2013, 1 female; **Kastamonu**, Tosya, Çaybaşı Village, Ilgaz Mountains east part, 1534 m, 41°08'N, 34°11'E, 11.7.2009, 1 male; **Çankırı**, Ilgaz, Yenice, Kadınçayırı, 1570 m, 41°01'N, 33°47'E, 27.5.1984, 1 male pupa, 8 pupae, larvae; 1.6.1986, 12 larvae; **Sinop**, Ayancık direction, Çangal Mountain, Akgöl, 340 m, 41°42'N, 34°36'E, 13.7.2009, larva; Hanönü, Ayancık direction, Çangal Mountain, 733 m, 41°39'N, 34°39'E, 9.8.2009, larvae; same place, 1140 m, 41°42'N, 34°38'E, 9.8.2009, 1 male; 26.10.2009, 2 males, 1 female; Bürnük, 1146 m, 41°39'N, 34°51'E, 12.7.2009, 1 female; **Samsun**, Yakakent, Durağan direction, Kızılan, 1235 m, 41°27'N, 35°28'E, 14.7.2009, 2 males; **Giresun**, Şebinkarahisar, Tamdere, 1600 m, 10.8.2007 1 male; Bektaş Yaylası direction, before Kulakkaya Yaylası, 1530 m, 40°41'N, 38°21'E, 18.8.2008, 1 male, 1 female; Karagöl, Bektaş Yaylası direction, 2140 m, 40°38'N, 38°13'E, 16.8.2008, 1 male; **Ordu**, Mesudiye, Harçbeli pass, Gököy, 10 km south, 8.8.2007, 40°37'N, 37°37'E, 4 females, larva; Karagöl Yaylası direction, 2070 m, 40°32'N, 38°12'E, 16.8.2008, 7 males, 4 females; **Gümüşhane**, Camiboğazı Yaylası, 2300 m, 40°38'N, 39°41'E, 18.8.2008, 1 male, 1 female, Leg. and coll. Sipahiler.

Thremma martynovi MALICKY, 1976

Material examined: **Rize**, Çamlıhemşin, Kale, 2300 m, 40°55'N, 40°58'E, 15.7.1984, 1 male; İkizdere, Çamlıhemşin, Çat, 1500 m, 40°51'N, 40°56'E, 15.7.1984, 3 males; Cimil, Başköy, 2600 m, 40°43'N, 40°48'E, 23.7.1984, 1 male; İkizdere, Sivrikaya Köyü, 1850 m, 40°40'N, 40°42'E, 9.7.1984, 10 males, 4 females; Cimil direction, 1500-2000 m, 40°44'N, 40°45'E, 21.8.1992, 2 males, 1 female; Çermaniman Yaylası near Cimil, 2600 m, 40°47'N, 40°46'E, 20.8.1992, 2 males, 1 female; Çamlıhemşin, Zilkale, Tozkapın, 850 m, 40°55'N, 40°58'E, 17.8.1992, 1 female; Ayder, 1500 m, 40°54'N, 41°03'E, 9.10.2006, 4 males; **Artvin**, Camili, Lodivake direction, 950 m, 41°25'N, 41°57'E, 16.9.1999, 1 female; Lekoban, Lodivake direction, 2200 m, 41°23'N, 42°04'E, 11.8.2000, 2 males, leg and coll. Sipahiler.

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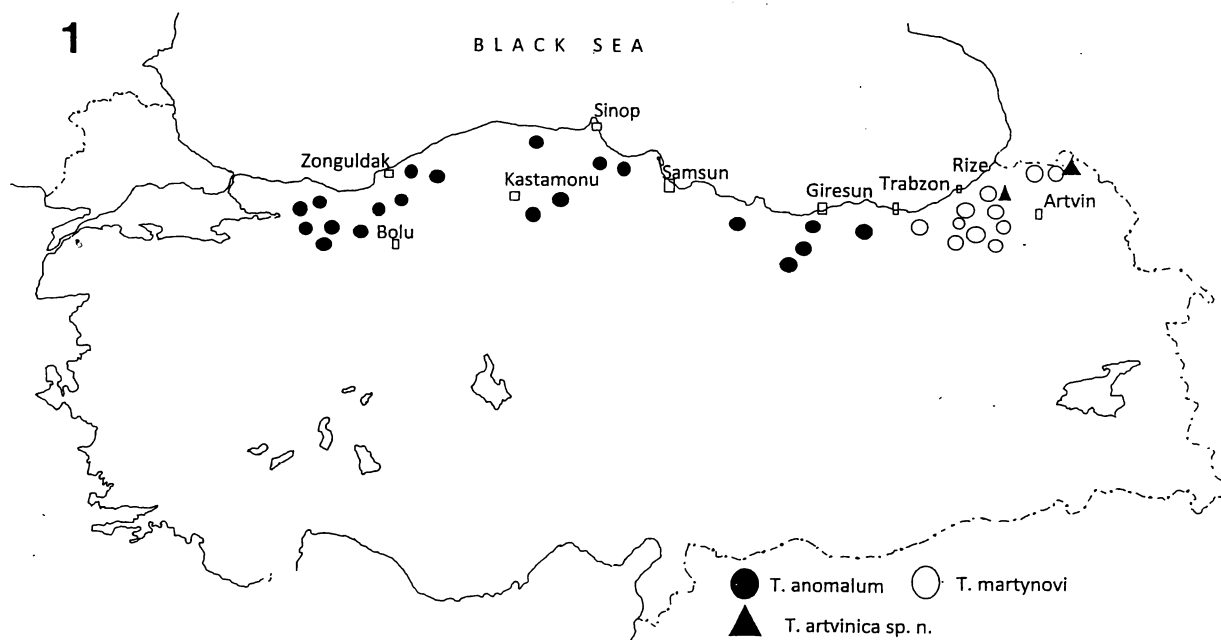
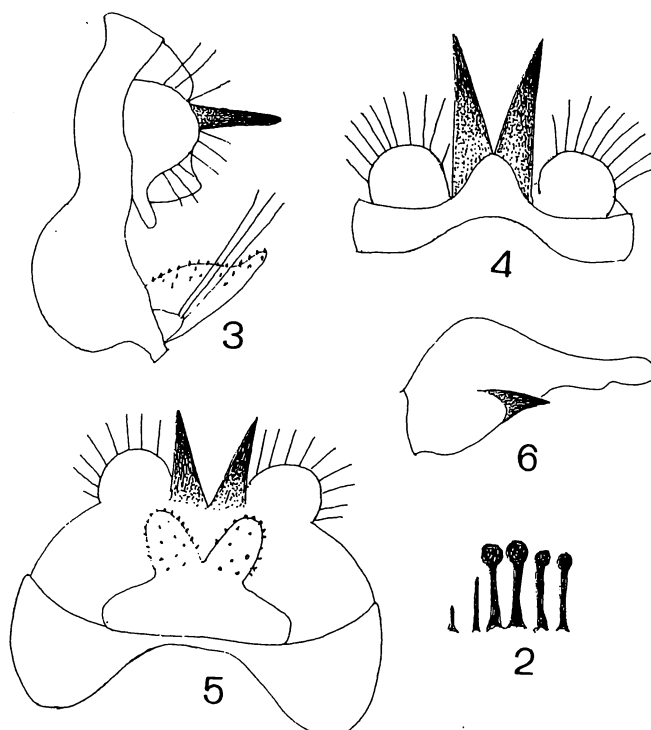


Figure 1. Distribution of *Thremma* species in Turkey.

Figures 2-6: *Thremma artvinica* sp. n. male genitalia: 2 sternite VII, 3 lateral, 4 dorsal, 5 ventral, 6 phallic apparatus, lateral.

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