

Tiger-beetles of the genus *Therates* Latreille, 1817 in the collection of Zoological Institute, St.Petersburg (Coleoptera: Carabidae: Cicindelinae)

A.V. Matalin

Matalin, A.V. 2001. Tiger-beetles of the genus *Therates* Latreille, 1817 in the collection of Zoological Institute, St.Petersburg (Coleoptera: Carabidae: Cicindelinae). *Zoosystematica Rossica*, 9(2), 2000: 387-389.

Annotated list of species of the genus *Therates* kept in the collection of Zoological Institute, St.Petersburg is presented. *Th. pseudorugifer pentalabiodentatus* subsp. n. is described from Yunnan, China. *Th. pseudoconfluens* Sawada & Wiesner is recorded from S China for the first time.

A. V. Matalin, Department of Zoology & Ecology, Moscow State Pedagogical University, ul. Kibalchicha str. 6 build. 5, Moscow 129278, Russia.

In the present paper, an annotated list of species of the genus *Therates* kept in the collection of Zoological Institute, St.Petersburg is given. It contains data on 97 specimens of 24 species and subspecies, including a new subspecies from Yunnan, China.

Th. batesii batesii Thomson, 1857. 2 ♂, 1 ♀, "Borneo Occ., Pontianak, 1900, R. Oberthur".

Th. fruhstorferi fruhstorferi W. Horn, 1902. 1 ♂, 4 ♀, "N. Vietnam, Tamdao, 25.05.-10.06.1995, Gorochov".

Th. maindroni W. Horn, 1900. 1 ♂, 1 ♀, "Borneo Occ., Pontianak, 1900, R. Oberthur".

Th. pseudoconfluens Sawada & Wiesner, 1999 (Figs 1-5). 1 ♀, "319(2), Yunnan, Xiaomengyang, NE of Cheli [= Jinghong] (664th km), 850 m, 6.V.1957, D. Panfilov". – *Note*. This is the first record from China. The species was described from N Laos and known from Louang Namtha Province only (Sawada & Wiesner, 1999). From related species, it is well distinguished by the elytral pattern (Fig. 1) and the aedeagus shape. In the present paper, figures of the female genitalia are given (Figs 2-5). The specimen from China is larger (8.0 mm) than the other ones (6.6-7.8 mm).

Th. tonkinensis kubani Wiesner, 1988. 1 ♀, "N Vietnam, Tamdao, 10.06.1995, Gorochov".

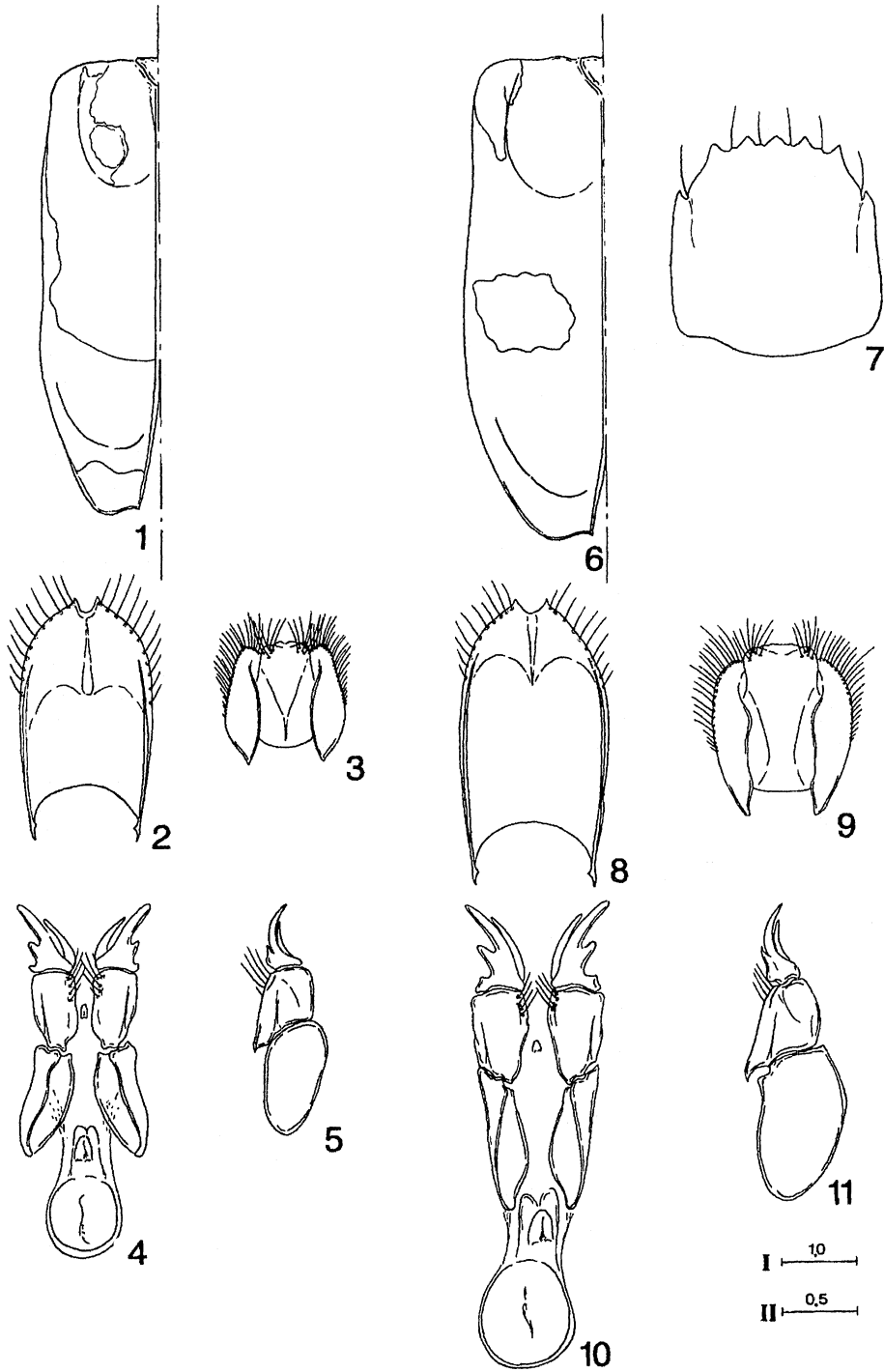
Th. vietnamensis Wiesner, 1988. 1 ♀, "N Vietnam, Tamdao, 25.05.1995, Gorochov".

Therates pseudorugifer pentalabiodentatus
subsp. n.

(Figs 6-11)

Holotypus. ♀ (teneral), China, "319. Yunnan, Xiaomengyang, NE of Cheli [= Jinghong] (664th km), 850 m, 6.V.1957, D. Panfilov".

Description. Length without labrum 9.0 mm. Head glabrous, black with light violet reflection; frons and genae red-brown. Clypeus without setae. Mandibles yellow, with light brown tooth. Labial and maxillary palpi pale with slightly darkened apical palpomeres. Labrum entirely yellow, as long as wide, with five apical teeth and one lateral tooth on each side (Fig. 7). Antennae dark brown; first four antennomeres with narrowly yellow apex. Pronotum black with violet lustre, with distinct midline, smooth, as long as wide. Prothorax brownish black, meso- and metathorax deep black. Mesepisternum with short sinuate groove and a deep basal pit. Metepisternum with longitudinal furrow in apical third. Coxae and trochanters pale, femora, tibiae and tarsi yellowish brown. Elytra 1.96 times as long as wide, with distinct apical and basal rises. Elytral disc black, with short, longitudinal humeral spot and large, trapeziform central spot yellow. Apical part of elytra entirely dark, with distinct, small sutural tooth (Fig. 6). Abdominal sternites dark brown laterally and light brown in centre. Posterior margin of female sternum 8 without setae; lateral margin with 10 long, thin setae (Fig. 8). Syntergum 9+10 with 14 setae apically and 25 setae laterally (Fig. 9). Base of second gonapophyse without setae; its external margin with additional lobe. Apical part of second gonacoxa with four setae. Additional sclerite very small; oviduct medium-sized (Figs 10, 11).



Figs 1-11. 1-5. *Therates pseudoconfluens*, ♀: 1, left elytra; 2, tergite 8, dorsal view; 3, syntergum 9+10, dorsal view; 4, second gonapophyses and gonocoxa, dorsal view; 5, same, lateral view. 6-11. *Th. pseudorugifer pentalabiodentatus* subsp. n., ♀: 6, left elytron; 7, labrum; 8, tergite 8, dorsal view; 9, syntergum 9+10, dorsal view; 10, second gonapophyses and gonocoxa, dorsal view; 11, same, lateral view. Scale bars (in mm): I, to Figs 1, 6; II, to Figs 2-5, 7-11.

Etymology. The new subspecies is named "pentalabiodentatus" because it has five apical teeth on labrum.

Comparison. The nominotypical subspecies was described from Louang Namtha Province of Laos (Sawada & Wiesner, 1999). The new subspecies is larger (9.0 mm) than nominotypical one (8.1-8.3 mm) and has five apical teeth on labrum (the nominotypical subspecies has six).

Th. fasciatus fasciatus (Fabricius, 1801). 3 ♂, 1 ♀, "S. Celebes, Bantimurang, G. Ribbe, 1882"; 1 ♂, "S. Celebes, N.M., 1891"; 1 ♀, "Halmahera Ins., Nord Mol-luken, Staudinger, 85".

Th. fasciatus quadrimaculatus W. Horn, 1895. 1 ♂, "Ins. Philipp."; 1 ♀, "Insulae Philippinae (Dohrn)".

Th. flavilabris (Fabricius, 1801). 1 ♂, "Ind. or."; 1 ♀, "Ost. Celebes, Tombugu, H. Kuhn, 1885"; 1 ♀, "Schmeer, 29, Peluru". – *Note.* Up to now this rare species was known from 1 locality in Sulawesi Tenggara (Kolaka), 2 localities in Sulawesi Selatan (Patunuang and Bantimurung) and 5 localities in Sulawesi Tengah (Tombugu, Morowali, Luwuk as well as Banggai and Togian Islands). Peluru is a new locality within Sulawesi Tengah.

Th. fulvicollis Thomson, 1860. 2 ♀, "S. Celebes, Bantimurang, G. Ribbe, 1882"; 1 ♂, "Halmahera, Ternate, Beccari, 1875".

Th. latreillei latreillei Thomson, 1860. 2 ♂, 2 ♀, "Celebes, Minahassa, Staudinger, 86".

Th. payeni Van der Linden, 1829. 2 ♀, "795. Celebes, Minahassa, Staud., 86".

Th. semperi Schaum, 1860. 1 ♀, "Schultz, 30, Ins. Philipp.".

Th. basalis basalis Dejean, 1826. 2 ♂, "Nuova Guinea, Fly River, L.M. D'Albertis, 1876-77"; 2 ♂, "N. Guinea, Andai, XII.1875, L.M. D'Albertis & Beccari"; 1 ♂, "Kapaor, 20.IV.72, L.M. D'Albertis"; 4 ♂, "Waigeu, Papua Ins. nordwestern fl. v. N. Guinea, Staudinger, 86"; 1 ♀, "Bai von Dure, Nordküste v. N. Guinea, Dr. Fiscfaer, 1880"; 1 ♀, "N. Guine".

Th. caligatus Bates, 1872. 1 ♂ without geographical label; 1 ♂, "Insul. Philippinae (Dohrn)". – *Note.* The record of this species from Philippines is doubtful. According to Wiesner (1988), this species inhabits Waigeo and Misool Islands only. Cassola (1995) noted the locality "Philippines, probably Mindanao" as an erroneous one. Perhaps, our specimen is mislabelled, but may be the area of distribution of *T. caligatus* Bat. is really wider.

Th. coracinus coracinus Erichson, 1834. 1 ♂, 1 ♀, "Ins. Philippinae"; 1 ♂, "Mindanao"; 2 ♂, "Manila".

Th. fulvipennis fulvipennis Chaudoir, 1848. 1 ♂, "Ind. or."; 1 ♂, "Ins. Philipp."; 1 ♀, "Schmeltz, 28, Ins. Philipp., Schaum".

Th. fulvipennis everetti Bates, 1878. 2 ♂, 2 ♀, "Mindanao"; 4 ♂, "Ins. Philipp.".

Th. labiatus (Fabricius, 1801). 1 ♂, 2 ♀, "S. Celebes, Bonthain, G. Ribbe, 1882"; 2 ♂, "Minahassa nord. Thell env. Celebes, Staud., 86"; 3 ♂, 2 ♀, "Amboina, 09, L. Rey"; 1 ♀, "Amboina, Dr. Riebeck, 85"; 1 ♂, "Ceram, Glamn., 1889"; 2 ♂, 1 ♀, "Aru Ins., Glamn., 1891"; 1 ♂, 2 ♀, "Nou. Guinea, Böttcher, Berlin C.R."; 1 ♂, "Nuova Guinea, Andai, Ag. 1872, L.M. D'Albertis"; 1 ♂, "850"; 1 ♀ without geographical label.

Th. spectabilis whiteheadi Bates, 1889. 1 ♂, 1 ♀, "Kinabalu, Borneo, 1500 m, H. Rolle, Berlin SW 11"; 1 ♀, "198".

Th. dimidiatus dimidiatus Dejean, 1825. 1 ♂, "Java, ♂".

Th. dimidiatus wallacei Thomson, 1857. 5 ♂, "Borneo Occ., Pontiana, 1900, R. Oberthur"; 1 ♂, "Sumatra, Soekaranda"; 1 ♂, "Sumatra, Liangagas".

Th. spinipennis spinipennis Latreille, 1822. 1 ♀, "Ind. or.".

Acknowledgements

I am very grateful to Dr. Boris Kataev for the opportunity of examination of specimens from the collection of Zoological Institute. This study received financial support from the Russian Foundation for Basic Research (No. 96-15-98079). The scientific collections of the Zoological Institute, Russian Academy of Sciences obtain financial support from the Science and Technology Ministry of the Russian Federation (Reg. No. 00-03-16).

References

- Cassola, F. 1995. La Memoire sur l'Eurychile "di Franco Andrea Bonelli" e attuali conscenze sul genere *Therates* Latreille (Coleoptera: Cicindelidae). *Boll. Mus. reg. Nat. Torino*, 3(2): 499-514.
- Sawada, H. & Wiesner, J. 1999. Beitrag zur Kenntniss der Cicindelidae von Laos (Coleoptera). *Entomol. Z.*, 109(1): 27-43.
- Wiesner, J. 1988. Die Gattung *Therates* Latr. und ihre Arten. *Mitt. Münch. entomol. Ges.*, 78: 5-107.

Received 17 March 2000