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New species of *Dolichozepe* CURTIS (Diptera: Tipulidae) from Australia

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Abstract: Four species of *Dolichozepe* (*Dolichozepe*) from tropical Queensland and from Tasmania are described as new.

Key words: *Dolichozepe*, new species, Australia.

Introduction

The Australian species of *Dolichozepe* were treated comprehensively by THEISCHINGER (1993, 1999). Additional undescribed species were encountered when studying material from tropical Queensland and from Tasmania. These species are described as new below.

Descriptions

Dolichozepe (*Dolichozepe*) *dyura* spec. nov. (Figs 1-3)

Description (♂): Head dark brownish grey; rostrum, palps and antennae largely brown, only apical segment of palps distally whitish grey. Thoracic terga greyish brown, pleura greyish- to brownish yellow. Coxae and trochanters yellowish grey; femora, tibiae and tarsi greyish brown with basal portion of femora and more distal segments of tarsi paler than the rest. Wings hyaline, suffused slightly with pale greyish brown; pterostigma brownish grey. Halteres greyish brown. Abdomen yellowish- to greyish brown.

Dimensions: Wing length 7.1-8.3 mm.

Genitalia: Hypopygium, Figs 1-3.

Female unknown.

Remarks: Belongs in the *Dolichozepe* (*D.*) *niveitarsis* group of THEISCHINGER (1993) and is possibly closest to *D.* (*D.*) *pygmaea* ALEXANDER. Diagnostic characters (male): tergum 9 excised medially; inner gonostylus not strongly differentiated, with some prominent teeth in basal half and an apically directed tooth at about 2/3 length; outer gonostylus unarmed, rather long and thin.

Material examined: Holotype ♂, Queensland, Massey Creek, 1000 m, 17.37°S/145.34°E, 3.10.-2.11.1995 (malaise), L. Umback (ANIC). Paratype: 1 ♂, Queensland, Mt Fisher, 1150 m, 17.33°S/145.32°E, 31.1.-27.2.1996 (malaise), L. Umback (ANIC).

D i s t r i b u t i o n : Queensland.

N a m e : *Dyura* = Australian Aboriginal word for „mosquito“.

Dolichozeza (Dolichozeza) gaba spec. nov. (Figs 4-6)

D e s c r i p t i o n : Head including rostrum, palps and antennae largely brownish grey to blackish brown; scape and pedicel greyish yellow to yellowish grey, apical segment of palps greyish white. Thoracic terga greyish brown, pleura greyish yellow and pale greyish brown. Coxae and trochanters greyish yellow; remainder of legs greyish brown, only tarsus of hindlegs greyish white. Wings hyaline, suffused slightly with pale greyish brown; pterostigma greyish brown. Halteres pale greyish brown and greyish white. Abdomen greyish yellow and greyish brown.

D i m e n s i o n s : Wing length, male 7.8-9.4 mm, female 9.3-11.9 mm.

M a l e g e n i t a l i a : Hypopygium, Figs 4-6.

R e m a r k s : Belongs in the *Dolichozeza (D.) niveitarsis* group of THEISCHINGER (1993) and is possibly closest to *D. (D.) cyatheti* ALEXANDER. Diagnostic characters (male): tergum 9 with distinct medial dip but without distinct lateral lobes; inner gonostylus with long spinulate edge ending in more prominent subapical tooth; outer gonostylus slightly and evenly bowed, unarmed; aedeagus moderately slender, with apex very slightly expanded; adminiculum with apex simple, widely rounded.

M a t e r i a l e x a m i n e d : Holotype ♂, Tasmania, Mount Wellington, 720 m, 28.2.1994, G. Theischinger (ANIC). Paratypes: Tasmania: 5♂♂, 1♀, same data as holotype (ANIC); 4♂♂, Esperance Forest, 1.3.1994, G Theischinger (ANIC); 3♂♂, 4♀♀, Flintstone, 2.3.1994, G. Theischinger (ANIC).

D i s t r i b u t i o n : Tasmania.

N a m e : *Gaba* (= Australian Aboriginal word for „dip“) refers to the medial notch of male tergum 9.

Dolichozeza (Dolichozeza) umbacki spec. nov. (Figs 7-9)

D e s c r i p t i o n (♂): Head dark brownish grey; rostrum, palps and antennae brown with scape, pedicel and apical segment of palps markedly paler than the rest. Thoracic terga greyish brown, pleura yellowish grey. Coxae and trochanters yellowish grey; rest of middle leg greyish brown with base of femur, apex of tibia and tarsus markedly paler; other legs missing. Wings hyaline, suffused slightly with pale greyish brown; pterostigma greyish brown. Halteres pale greyish brown. Abdomen greyish brown with greyish yellow rings on segments 2-5.

D i m e n s i o n s : Wing length 6.4-7.1 mm.

G e n i t a l i a : Hypopygium, Figs 7-9.

F e m a l e unknown.

R e m a r k s : Together with *Dolichozeza (D.) boogoo* THEISCHINGER and *D. (D.) wuda* sp. n. possibly a subgroup of the *D. (D.) brevifurca* group of THEISCHINGER (1993). Diagnostic characters (male): tergum 9 slightly trilobed with lateral lobes tooth-like and median lobe very low, subtriangular; inner gonostylus differentiated into two distinct sections; outer gonostylus rather long and thin with pointed tooth at about midlength.

Material examined: Holotype ♂, Queensland, Massey Creek, 1000 m, 17.37°S/145.34°E, 2.-30.11.1995 (malaise), L. Umback (ANIC). Paratypes: 1♂, same locality as holotype, 31.1.-27.2.1996 (malaise), L. Umback (ANIC); 1♂ Queensland, Longlands Gap, 1150 m, 17.28°S/145.29°E, 3.1.-5.2.1996 (malaise), L. Umback (ANIC).

Distribution: Queensland.

Name: Dedication to Mr L. Umback.

***Dolichozepeza (Dolichozepeza) wuda* spec. nov. (Figs 10-12)**

Description (♂): Head including rostrum, basal segment of palps and antennae greyish brown; second and third palpal segments pale greyish brown, apical segment pale greyish yellow. Thorax dorsally darker, laterally paler, greyish brown. Coxae and trochanters pale greyish brown; other leg segments missing. Wings hyaline, suffused slightly with yellowish- to pale greyish brown; pterostigma dark brownish grey. Halteres pale greyish brown. Abdomen brownish grey and greyish yellow.

Dimensions: Wing length 6.3 mm.

Genitalia: Hypopygium, Figs 10-12.

Female unknown.

Remarks: Together with *Dolichozepeza (D.) boogoo* THEISCHINGER and *D. (D.) umbacki* sp. n. possibly a subgroup of the *D. (D.) brevifurca* group of THEISCHINGER (1993). Diagnostic characters (male): tergum 9 widely but shallowly excised medially; inner gonostylus distinctly differentiated into basal and distal section; outer gonostylus club-shaped, armed with tooth and some kind of low ridge just before midlength.

Material examined: Holotype ♂, Queensland, Mount Fisher, 1150 m, 17.33°S/145.32°E, 31.1.-27.2.1996 (malaise), L. Umback (ANIC).

Distribution: Queensland.

Name: Wuda (= Australian Aboriginal word for „club“) refers to the overall shape of the outer gonostylus.

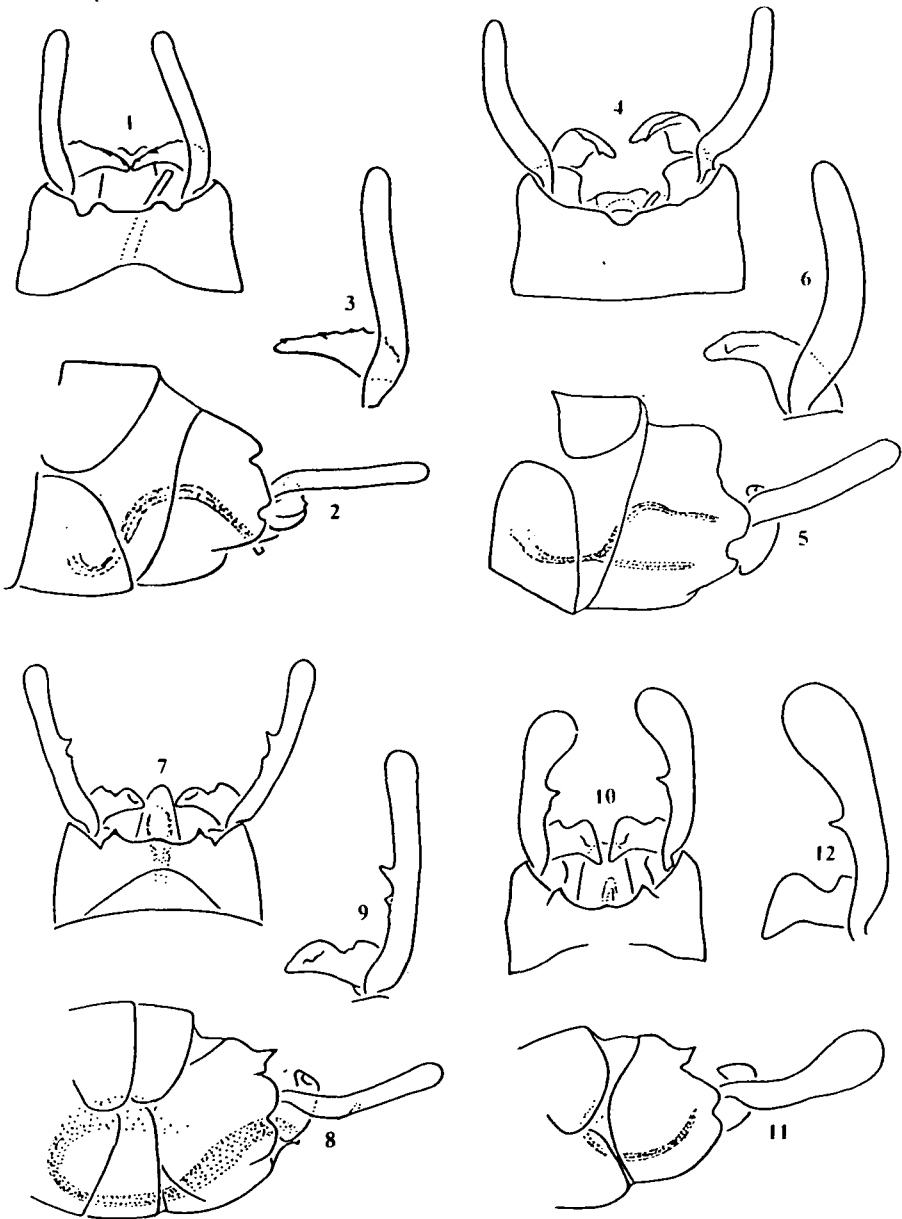
Acknowledgements

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References

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Figs 1-12: *Dolichozepeza (Dolichozepeza)* species, male hypopygium; 1-3 – *D. (D.) dyura* sp.n.; 4-6 – *D. (D.) gaba* sp.n.; 7-9 – *D. (D.) umbacki* sp.n.; 10-12 – *D. (D.) wuda* sp.n.: 1, 4, 7, 10 dorsal aspect; 2, 5, 8, 11 lateral aspect; 3, 6, 9, 12 gonostyli.