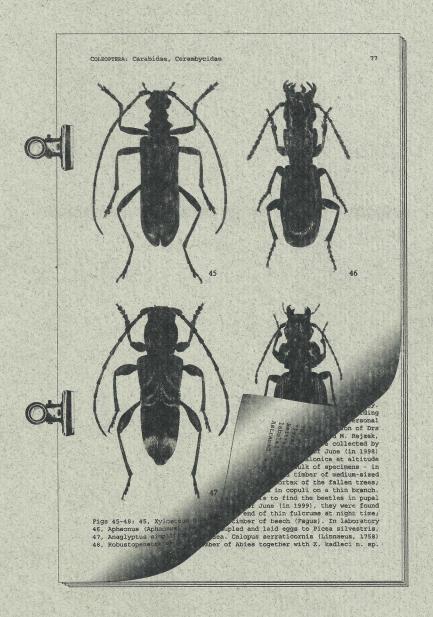
ENTOMOLOGIA KUBANICA



New longicorn beetles of the tribe Xylosteini from Asia (Coleoptera Cerambycidae)

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With 49 figures and 1 table

MIROSHNIKOV A.I. New longicorn beetles of the tribe Xylosteini from Asia (Coleoptera Cerambycidae). Entomologia Kubanica, № 1: 37-54. Krasnodar, Russia, September 2000.

The description of a new species *Xylosteus kadleci* n. sp. from the Northwest Turkey, resembling *X. caucasicola* Plavilstshikov, is given. Two new genera, *Teledapalpus* n. gen. (China) and *Parateledapus* n. gen. (Thailand) are distinguished, their congeners were earlier referred to the genus *Teledapus* Pascoe. 3 new species of the genus *Teledapalpus* n. gen., namely *T. murzini* n. sp. (N Sichuan), *T. zamotajlovi* n. sp. (N Sichuan), and *T. zolotichini* n. sp. (S Shaanxi), are described; key to all species of this genus, which also includes, besides enumerated species, *T. hospes* (Holzschuh), n. comb. (S Gansu) and *T. cremiarius* (Holzschuh), n. comb. (S Shaanxi), is given. The genus *Parateledapus* n. gen. houses the single species - *P. gibbus* (Holzschuh), n. comb.

Key words: Coleoptera Cerambycidae, Xylosteini, new genera, new species, key, Turkey, China, Thailand.

INTRODUCTION

The tribe Xylosteini includes few genera, belonging to one of the most primitive and simultaneously hardly studied branch in the subfamily Lepturinae. Several constituent species are still known from single specimen, peculiarities of biology and horology of many species are not or hardly studied. In this connection, both the finds of taxa new to science, and detection of the unknown data on biology and distribution of the already established forms, are of great interest.

In the present work a new species of the genus *Xylosteus* Frivaldszky from the northwest part of Turkey is described, two new genera, *Teledapalpus* n. gen. (China) and *Parateledapus* n. gen. (Thailand) are established, housing species earlier referred to the genus *Teledapus* Pascoe (Holzschuh, 1989, 1999). 3 new species are described in the genus *Teledapalpus* n. gen., identification key to all congeners is provided.

MATERIAL

The material studied is stored in the following collections:

AM - Coll. A. Miroshnikov, Krasnodar

CH - Coll. C. Holzschuh, Wien

GS - Coll. G. Sama, Cesena

MD - Coll. M. Danilevsky, Moscow

MR - Coll. M. Rejzek, Prague

MS - Coll. M. Sláma, Krhanice

OM - Coll. O. Mehl, Struer

SK - Coll. S. Kadlec, Litvinov

SM - Coll. S. Murzin, Moscow

Xylosteus kadleci n. sp.

Figs 24-30.

MATERIAL: Holotype ơ (SK), N Turkey, Abant Gölü, 30 km SW Bolu, 1700 m, 8. VI. 1998, from timber of Abies, S. Kadlec. Paratypes: 1 \circ (AM), 2 \circ 4 \circ (SK), same data as holotype; 1 \circ (AM), same locality, 22. VI. 1993, O. Hovorka; 1 \circ (AM), 1 \circ (MS), same locality, 21. VI. 1993, J. and M. Sláma; 1 \circ 3 \circ (AM), 1 \circ (GS), 2 \circ 5 \circ (MR), 1 \circ (OM), same locality, 1000-1300 m, 7.-8. VI. 1998, M. Rejzek; 1 \circ (AM), 1 \circ (SK), same locality, 31. V. 1999, S. Kadlec; 1 \circ (AM), 1 \circ (SK), same locality, ex larvae, from Fagus, IX. 1999, S. Kadlec.

ETHYMOLOGY. The specific epithet derives from the name of my colleague and friend, Dr. Stanislav Kadlec, who collected a part of type series and kindly forwarded it to me for study.

Description. Closely resembles *X. caucasicola* Plavilstshikov and *X. spinolae* Frivaldszky¹, but differs from them, first of all, in shape of lateral tubercles of pronotum (Figs 14-28) and some other characters. Tubercles on vertex more similar to *X. caucasicola*, surface of head behind them at their base usually with less pronounced depression, than in *X. spinolae*, thus tubercles look less distinct, than in the latter. Lateral tubercles of pronotum pointed to some extent, of characteristic shape (Figs 24-30). Recumbent pubescence on disk of pronotum developed usually somewhat weaker, than in *X. spinolae*, but noticeably stronger, than in *X. caucasicola*, especially at median line between tubercles, particularly in o. Puncturation at elytral base usually resembles that of *X. caucasicola*, somewhat more dense and robust, than in *X. spinolae*. Light spots on elytral base similar to *X. caucasicola*, less pronounced than in *X. spinolae*; o, like of *X. caucasicola* and *X. spinolae*, is characterized by weaker development of these maculae, than of Apex of penis has similar structure as *X. caucasicola*. Body length 10.0-14.2 mm in of, 11.3-16.8 mm in o.

REMARKS. X. kadleci n. sp. resembles the most readily X. caucasicola, being probably, its subspecies, however lack of material from other localities of Turkey², especially from the northeast part of this country, does not allow now to establish more precisely the taxonomic status of the taxon in question.

BIOLOGY. According to the personal communication of Drs S. Kadlec and M. Rejzek, the beetles were collected by the beginning of June (in 1998) on *Abies cephalonica* at altitude 1000-1700 m; the bulk of specimens - in pupal chambers in dead timber of medium-sized fulcrums, remaining - under cortex of the fallen trees; one couple was found *in copuli* on a thin branch. It was already impossible to find the beetles in pupal chambers at the end of June (in 1999), they were found predominantly at the butt end of thin fulcrums at night time; 2 ex. were reared from the timber of beech (*Fagus*). In laboratory conditions beetles were coupled and laid eggs to *Picea silvestris*, *Abies alba*, *Quercus petraea*. *Calopus serraticornis* (Linnaeus, 1758) (Oedemeridae) was found in timber of *Abies* together with *X. kadleci* n. sp.

Genus Teledapalpus n. gen.

Type species: Teledapalpus murzini n. sp.

Teledapus: Holzschuh, 1999: 6.

¹ Discriminative features of these two species were given in my recent publication (Miroshnikov, 1998).

² According to the personal communication of Dr. G. Sama, he knows the finds of *Xylosteus* from the European part of Turkey (Delmirkoy).

DESCRIPTION. The most closely resembles *Teledapus* Pascoe (Figs 38, 43-49), but easily distinguishable by the features given in the table 1.

The genus described includes 5 species occupying boreal terrains of Sichuan province and adjacent southern districts of provinces Gansu and Shaanxi. In all congeners only of are known. By observations of the collectors (the personal communications, see below), *Teledapalpus*-species are ecologically associated with coniferous trees, the beetles are active at nights, fall into pitfall traps deposited at coniferous plantations or ones with involvement of coniferous trees, occur at altitude 1800 to 4000 m.

Taking into account morphological peculiarities of the known congeners (including disability to flying) and the character of their distribution, I suppose, that there are still a lot of species to be described, possessing, most likely, very narrow geographic ranges.

Key to species of the genus Teledapalpus n. gen., based on o characters

- 1. Elytra with mat gloss, without erect hairs or at least with solitary erect or reclining hairs, rugose sculpture of elytra looks less coarse; pronotum on disk without robust suberect or reclining hairs, recumbent pubescence noticeably less pronounced, hardly visible..........2

Table 1. The main discriminative features of the genus Teledapalpus n. gen.

NT 1	m 1 1 1	#11 P
Number	<i>Teledapalpus</i> n. gen.	Teledapus Pascoe
of feature		
1.	Distance between inner edges of	Distance between inner edges of
	eyes on vertex hardly shorter than	eyes on vertex considerably ex-
	maximal diameter of eye, nearly	ceeds maximal diameter of eye,
	equal to it or hardly exceeds it, but	not less than 1.35x eye diameter.
	not more, than 1.14x eye diame-	
	ter.	
2.	Maxillar and labial palpi strongly	Maxillar and labial palpi devel-
	pronounced, length of maxillar	oped noticeably weaker, length of
	palpi slightly shorter than maxi-	maxillar palpi much shorter than
	mal breadth of head (between	extreme breadth of a head (be-
	outer edges of eye), but not more	tween outer edges of eye), as
	than 1.15 times.	minimum, 1.66 times.
3.	Eyes large, convex, oval, maximal	Eyes small convex or strongly
	diameter of eye not less than 1.60	convex to large convex, maximal
	times exceeds length of antenno-	diameter of eye subequal to length
	mere 2.	of antennomere 2 or exceeds it,
		but no more than 1.60 times.
4.	Pronotum at base and apex	Pronotum at base and apex con-
	sharply constricted, with well	stricted noticeably weaker, with
	developed lateral tubercles (Figs	less developed lateral tubercles
	40, 41), on disk more or less con-	(Figs 43-46), on disk flat or hardly
	vex (Fig. 2).	convex (Fig. 1).
5.	of elytra on disk more or less con-	of elytra on disk depressed, their
	vex, their lateral sides lengthways	lateral sides lengthways epipleura
	epipleura considerably arched, of	weakly arched or almost even
	characteristic shape (Fig. 2).	(Fig. 1).
6.	Recumbent pubescence of prono-	Recumbent pubescence of prono-
	tum more or less fine, rather	tum and head dorsally well devel-
	weakly or very weakly pro-	oped, strongly pronounced.
	nounced, on head dorsally - gen-	
	erally hardly noticeable.	
7.	Antennomeres 3-5 basally with-	Antennomeres 3-5 basally con-
	out sharp thickenings, of normal	siderably thickened, especially
	constitution, as well as subsequent	antennomere 3, or without thick-
	ones.	enings, of normal constitution, as
		well as subsequent ones.
8.	Body dorsum with presence or	Body dorsum without black tint,
	domination of black (blackish-	if present, strongly limited, visible
1=	brown) tint (Figs 31-37).	on sides of pronotum only (Figs
	~~	38, 47-49).

Teledapalpus murzini n. sp.

Figs 2, 4, 6, 31.

MATERIAL: Holotype, of (SM), China, N Sichuan, Nanping env., 3500 m, 10.-19. VI. 1997, pitfall trap, S. Murzin.

ETHYMOLOGY. The specific epithet derives from the name of my colleague and friend, Dr. Sergei V. Murzin, remarkable collector of the longicorn beetles.

DESCRIPTION, J. Body slender, elongate.

Head reddish-brown, with darker vertex and neck and almost black temples, palpi brownish, antennae brown, lighter towards apex; pronotum, like head, on disk mostly reddish-brown, along median line, at base, at apex and on lateral sides black; scutellum and elytra blackish-brown; underside and legs reddish-brown.

Head with moderately large, partly merging puncturation dorsally, with more coarse sculpture on temples, with sharply pronounced longitudinal groove on fronce and vertex; distance between inner edges of eyes on vertex subequal to maximal eye diameter; ultimate segment of maxillar palpi as in Fig. 4; antennae reaching apical one-sixth of elytra, antennomeres' length ratio approximately as in other congeners.

Pronotum 1.12 times as long as wide (at level of tubercles), with clear, dense, partly merging puncturation, more fine on disk at median line, with shallow longitudinal depression at base, there with smooth, partly punctured area, prolated to middle of disk, with attenuated apically lateral tubercles.

Scutellum in dense puncturation, rounded apically.

Elytra 2.98 times as long as wide (basally), with large, rather deep, more or less uniform puncturation, smoothed towards apex, distance between punctures on disk being 2-3 times, partly even more, longer than their diameter, laterally puncturation noticeably denser, on disk with solitary suberect hairs.

Prothorax in middle part on sides in coarse, partly merged puncturation, smaller at base of its process, meso- and metathorax in coarse, but less large than on sides of prothorax, dense, often merging, somewhat rugose puncturation.

Hind tarsomere 1 2.13 times as long as hind tarsomere 2; hind tibia 1.16 times as long as hind tarsi.

Abdomen with small, dense, clear puncturation; last (visible) sternite with hardly noticeable depression apically.

Body length 12.9 mm.

REMARKS. Resembles to *T. hospes* (Holzschuh), n. comb. and *T. zamotajlovi* n. sp.; besides features, given in the key, differs from them in attenuated apically lateral tubercles of pronotum, presence of small flat smooth area in its base, somewhat sparser puncturation of elytra, presence of lighter tints in colouration of head and pronotum.

Teledapalpus zamotajlovi n. sp.

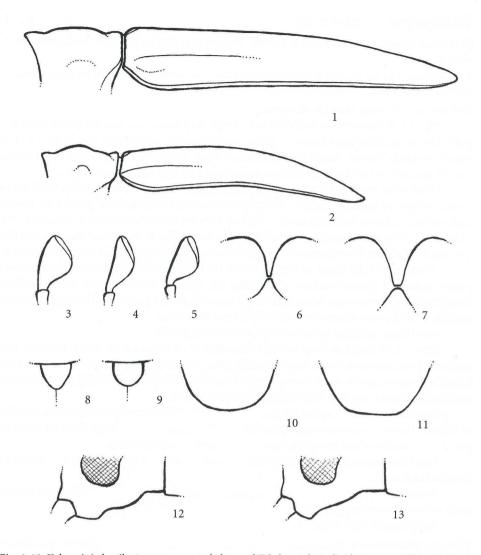
Figs 5, 7, 32, 40.

MATERIAL: Holotype, đ (SM), China, N Sichuan, Juizhaigou, 4000 m, 21.-23. VI. 1997, pitfall trap, S. Murzin.

ETHYMOLOGY. The specific epithet derives from the name of my colleague and friend, constant partner in preparation and realization of various entomological projects, Dr. Alexandr S. Zamotajlov.

DESCRIPTION. of. Body slender, elongate.

Head and elytra black, antennae blackish-brown, palpi brown, pronotum black, on sides partly reddish-black-brown, legs blackish-brown, partly somewhat lighter, hind femora and tibiae black, thorax blackish-brown, abdomen black, apices of sternites reddish-brown.



Figs 1-13. Xylosteini, details: 1, pronotum and elytra of *Teledapus dorcadioides* Pascoe, of (lateral view); 2, idem, *Teledapalpus murzini* n. sp., of (lateral view); 3, ultimate segment of maxillar palpus of *Teledapalpus hospes* (Holzschuh), of; 4, idem, *T. murzini* n. sp., of; 5, idem, *T. zamotajlovi* n. sp., of; 6, process of mesothorax of *T. murzini* n. sp., of; 7, idem, *T. zamotajlovi* n. sp., of; 8, scutellum of *T. cremiarius* (Holzschuh), of; 9, idem, *T. zolotichini* n. sp., of; 10, apex of last sternite of *T. cremiarius* (Holzschuh), of; 11, idem, *T. zolotichini* n. sp., of; 12, head of *T. cremiarius* (Holzschuh), of (lateral view); 13, idem, *T. zolotichini* n. sp., of (lateral view).

Head with very dense puncturation dorsally, faintly rarefied on neck, which is the most coarse and prominent on temples; with clear, but not sharp longitudinal groove on fronce and vertex; distance between inner edges of eyes on vertex hardly shorter than maximal diameter of eye; ultimate segment of maxillar palpi as in Fig. 5; antennae reaching apical one-third of elytra, antennomeres' length ratio approximately as in other congeners.

Pronotum 1.17 times as long as wide (at level of tubercles), with small, dense, uniform puncturation, larger on sides, with well developed longitudinal depression basally, lateral tubercles rounded apically.

Scutellum in coarse puncturation, rounded apically.

Elytra 3.22 times as long as wide (basally), with moderately large, rather deep, obliterated apically puncturation, distance between punctures on disk usually being not more than 2 times longer puncture's diameter, laterally puncturation considerably denser, on disk without erect or suberect hairs.

Prothorax in middle part with more or less clear rugose sculpture and dense rugose puncturation at base of its process; similar puncturation presents on meso-and metathorax.

Hind tarsomere 1 2.02 times as long as hind tarsomere 2; hind tibia 1.10 times as long as hind tarsi.

Abdomen with small, dense, somewhat unclear puncturation; last (visible) sternite with hardly noticeable depression apically.

Body length 14.0 mm.

REMARKS. Resembles *T. hospes* (Holzschuh), n. comb. and *T. murzini* n. sp.; besides mentioned above discriminative features, differs from them in somewhat smaller punctures of pronotum and head dorsally, sharp longitudinal depression of pronotum basally.

Teledapalpus hospes (Holzschuh, 1999), n. comb.

Figs 3, 34, 37.

Teledapus hospes Holzschuh, 1999: 6.

MATERIAL: Holotype, of (CH), China, Gansu prov., 70 km W of Wudu, 1800-2500 m, 7.-15. VI. 1997, A. Shamaev; 1 of (MD), same data as holotype.

Remarks. Described from one of. One more of, studied by me, possesses the same label, as holotype, and differs from it in the following features: body length 14.2 mm, disk of pronotum more nitidous, antennae slightly shorter, head, partly, elytra in humeral angles, at suture along its whole length, and apically look somewhat lighter.

Teledapalpus zolotichini n. sp.

Figs 9, 11, 13, 33.

MATERIAL: Holotype, & (SM), China, Shaanxi prov., Taibaishan nat. park, 3000-3200 m, 11.-13. VI. 1999, pitfall trap, S. Murzin.

ETHYMOLOGY. The specific epithet derives from the name of my senior friend, an amateur coleopterist from Moscow, Victor V. Zolotikhin, and is cordially given in memory of this remarkable person.

 $Description.\ \ \emph{o}.\ Body\ slender,\ elongate.$

Integument black, several penultimate antennomeres, palpi, epipleura, and tarsi dark-brown.

Head with coarse dense puncturation dorsally, most coarse on temples, with sharp longitudinal groove on fronce and vertex; distance between inner edges of eyes on vertex hardly shorter than maximal diameter of eye; antennae distinctly not reaching elytral apex, antennomeres' length ratio approximately as in other congeners.

Pronotum 1.17 times as long as wide (at level of tubercles), with very dense small puncturation, on sides and in the middle of a disk puncturation less prominent, merging, rugose, basally with weak longitudinal depression, there with hardly marked smooth area, with solitary, subappressed robust hairs on disk.

Scutellum rounded apically.

Elytra 3.05 times as long as wide (basally), with moderately large, rather deep dense puncturation, distance between punctures on disk being subequal or somewhat longer than their diameter, along their whole length with multiple long erect hairs.

Prothorax in middle part, meso- and metathorax with dense coarse rugose puncturation.

Hind tarsomere 1 2.37 times as long as hind tarsomere 2; hind tibia 1.05 times as long as hind tarsi.

Abdomen with small dense clear puncturation; last (visible) sternite with hardly noticeable depression apically.

Body length 12.7 mm.

REMARKS. Resembles *T. cremiarius* (Holzschuh), n. comb.; besides features, given in the key, differs from it in stronger depression behind vertical tubercles, somewhat less coarse sculpture of pronotum, noticeably less distinct, subappressed robust hairs on its disk, somewhat darker penultimate antennomeres and tarsi.

Teledapalpus cremiarius (Holzschuh, 1999), n. comb. Figs 8, 10, 12, 35, 36, 41.

Teledapus cremiarius Holzschuh, 1999: 6.

MATERIAL: Holotype, ơ (CH), China, Shaanxi prov., Qing Ling Shan Mts., track Hou Zen Zi vill. Taibai Shan, 3000 m, 29. VI. - 2. VII. 1998, fir forest, Zd. Jindra, O. Šafránek & M. Trýzna; 1 ơ (AM), same data as holotype.

REMARKS. Described from one σ . One more studied σ of this species possesses the same label as holotype and differs from it in the following features: body length 11.4 mm, elytral puncturation somewhat sparser, reddish-brown tint prevails in colouration of head and pronotum.

BIOLOGY. According to the personal communication of the collectors, one specimen of the species in question was found in a pitfall trap, another was captured at night time during active movement on a fulcrum of planting arbor of a fir-tree (*Picea*), simultaneously some more awakely creeping beetles were observed on the same fulcrum, they managed to escape.

Genus Parateledapus n. gen.

Type species: Teledapus gibbus Holzschuh, 1989.

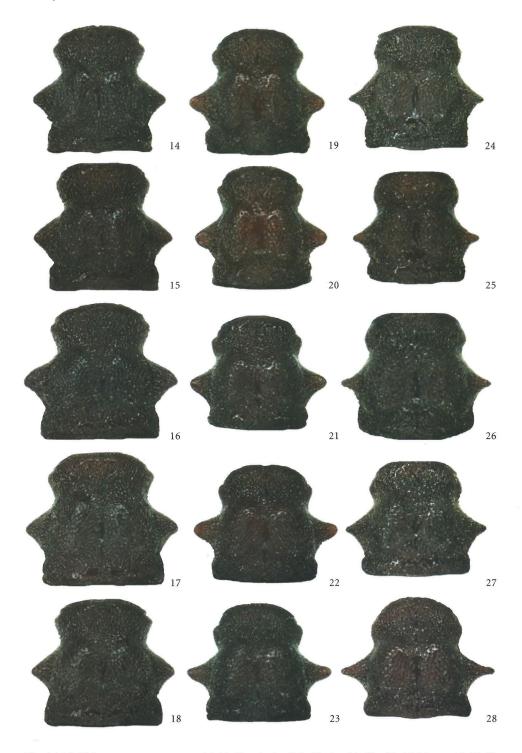
Teledapus: Holzschuh, 1989: 363.

DESCRIPTION. Habitually resembles *Teledapus* Pascoe (Figs 38, 43-49), but differs from it in a lot of features.

Head with large flat strongly sloping fronce, without noticeable excavation between antennal bases, longitudinal groove there not developed, as well as between eyes; distance between inferior edge of antennal socket and base of mandible more than 2 times longer diameter of antennal base; eyes with well developed emargination; palpi short, maxillar palpi subequal in length to labial ones, weakly exceeding edge of mandibles, ultimate segment of both maxillar and labial palpi not axe-shaped, from base to middle somewhat broadened, then narrowed apically.

Pronotum of characteristic shape (Fig. 42), with coarse longitudinal wrinkles, lump-like raised apically.

Scutellum very small, base of pronotum being more than 7 times as wide as width of scutellum.

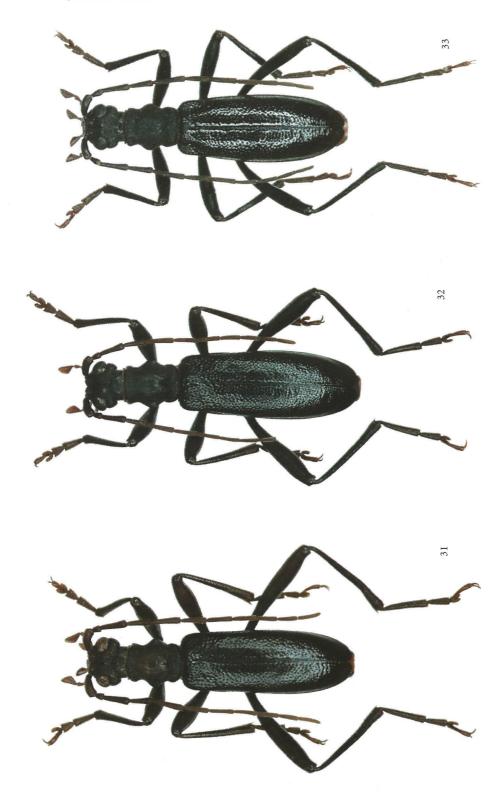


Figs 14-28. *Xylosteus* spp., pronotum: 14-18, *X. spinolae* Frivaldszky: 14, 15, oo; 16-18, oo. 19-23, *X. caucasicola* Plavilstshikov: 19, 20, oo; 21-23, oo. 24-28, *X. kadleci* n. sp.: 24, 25, oo; 26-28, oo.

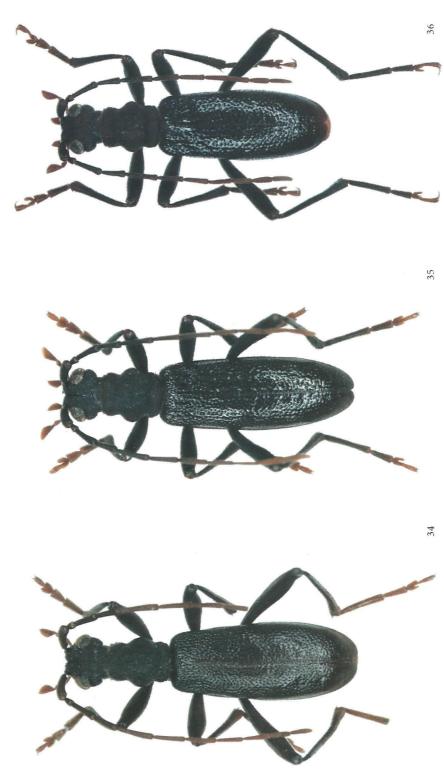




Figs 29-30. Xylosteus kadleci n. sp., habitus: 29, holotype, 6; 30, paratype, ç.



Figs 31-33. Teledapalpus spp., habitus: 31, T. murzini n. sp., holotype, 6; 32, T. zamotajlovi n. sp., holotype, 6; 33, T. zalotichini n. sp., holotype, 6.



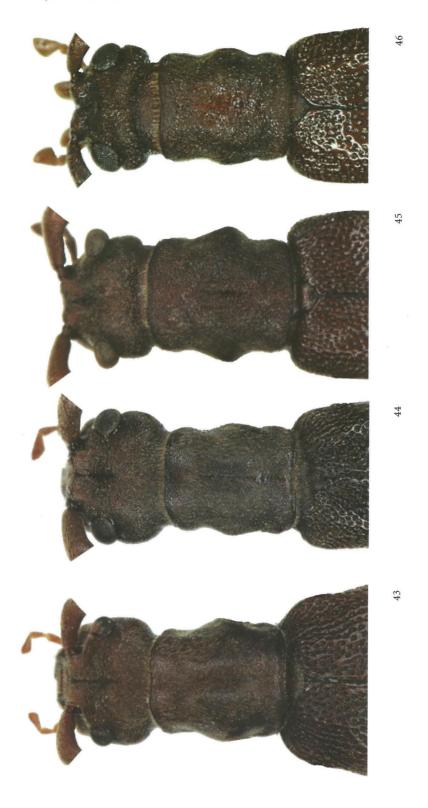
Figs 34-36. Teledapalpus spp., habitus: 34, T. hospes (Holzschuh), holotype, δ; 35, T. cremiarius (Holzschuh), holotype, δ; 36, T. cremiarius (Holzschuh), δ (coll. A. Miroshnikov).



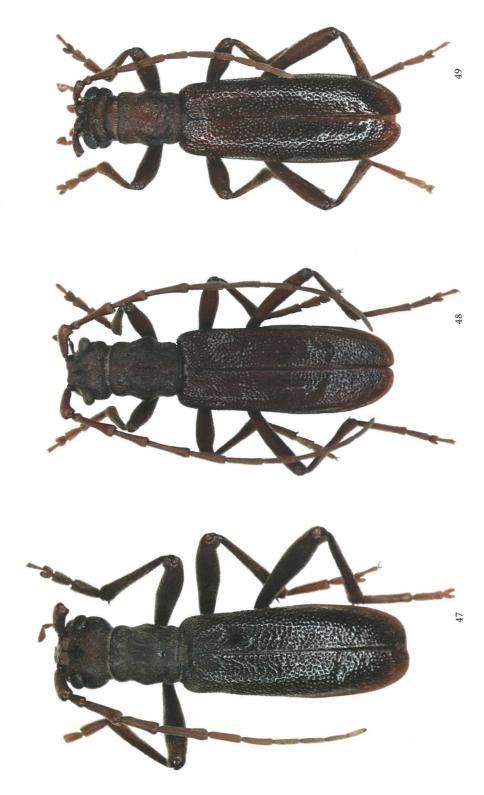
Figs 37-39. Xylosteini, habitus: 37, Teledapalpus hospes (Holzschuh), δ (coll. M. Danilevsky); 38, Teledapus dorcadioides Pascoe, φ ; 39, Parateledapus gibbus (Holzschuh), holotype, φ .



Figs 40-42. Xylosteini, head and pronotum: 40, Teledapalpus zamotajlovi n. sp., holotype, 6; 41, T. cremiarius (Holzschuh), 6; 42, Parateledapus gibbus (Holzschuh), holotype, 9.



Figs 43-46. Teledapus spp., head and pronotum: 43, T. dorcadioides Pascoe, 9; 44, T. dorcadioides Pascoe, 6; 45, T. ocularis Holzschuh, holotype, 6; 46, T. celsicola Holzschuh, paratype, 6.



Figs 47-49. Teledapus spp., habitus: 47, T. dorcadioides Pascoe, 6; 48, T. ocularis Holzschuh, holotype, 6; 49, T. celsicola Holzschuh, paratype, 6.

Elytra strongly convex, their height in the most convex place considerably exceeds level of base of pronotum.

Process of prothorax wide, approximately twice wider than in *Teledapus*.

Tarsomeres 2 of all tarsi less than 1.5 times as long as tarsomere 3.

The genus includes 1 species from Thailand.

Parateledapus gibbus (Holzschuh, 1989), n. comb.

Figs 39, 42.

Teledapus gibbus Holzschuh, 1989: 363.

MATERIAL: Holotype, o (CH), Thailande, Doi Inthanon, 2500 m, 9. II. 1985, tamisage (gesiebt), P. Schwendinger.

REMARKS. This species is known from 1 Q.

ACKNOWLEDGEMENTS

I express sincere gratitude to Dr. S.V. Murzin (Moscow), Dr. S. Kadlec (Litvinov), Dr. M. Rejzek (Prague), and Dr. M.E.F. Sláma (Krhanice) for loan of the material, Dr. N.B. Nikitsky for all the help and facilities rendered during my stay at the Zoological Museum of Moscow State University, Drs M.L. Danilevsky (Moscow) and C. Holzschuh (Vienna), who kindly supplied me with comparative material.

РЕЗЮМЕ

Таблица для определения видов рода Teledapalpus n. gen. по б

- Усики короче, достигают только последней трети надкрылий; последний членик максиллярных щупиков как на рис. 5; надкрылья от основания к вершине более

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