

Review of the Hydrovatini, Hygrotini and Hyphydrini in Laos (Coleoptera, Dytiscidae)

Autor(en): **Brancucci, Michel / Biström, Olof**

Objektyp: **Article**

Zeitschrift: **Entomologica Basiliensia et Collectionis Frey**

Band (Jahr): **34 (2013)**

PDF erstellt am: **13.07.2024**

Persistenter Link: <https://doi.org/10.5169/seals-981002>

Nutzungsbedingungen

Die ETH-Bibliothek ist Anbieterin der digitalisierten Zeitschriften. Sie besitzt keine Urheberrechte an den Inhalten der Zeitschriften. Die Rechte liegen in der Regel bei den Herausgebern.

Die auf der Plattform e-periodica veröffentlichten Dokumente stehen für nicht-kommerzielle Zwecke in Lehre und Forschung sowie für die private Nutzung frei zur Verfügung. Einzelne Dateien oder Ausdrucke aus diesem Angebot können zusammen mit diesen Nutzungsbedingungen und den korrekten Herkunftsbezeichnungen weitergegeben werden.

Das Veröffentlichen von Bildern in Print- und Online-Publikationen ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. Die systematische Speicherung von Teilen des elektronischen Angebots auf anderen Servern bedarf ebenfalls des schriftlichen Einverständnisses der Rechteinhaber.

Haftungsausschluss

Alle Angaben erfolgen ohne Gewähr für Vollständigkeit oder Richtigkeit. Es wird keine Haftung übernommen für Schäden durch die Verwendung von Informationen aus diesem Online-Angebot oder durch das Fehlen von Informationen. Dies gilt auch für Inhalte Dritter, die über dieses Angebot zugänglich sind.

Review of the Hydrovatini, Hygrotini and Hyphydrini in Laos (Coleoptera, Dytiscidae)

by Michel Brancucci† & Olof Biström *)

Abstract. A review of the species belonging to the tribes Hydrovatini, Hygrotini and Hyphydrini (in part) occurring in Laos is given. Five genera with a total of 25 species are recorded, ten for the first time in Laos and one, *Hyphoporus oudomxai* sp.nov. described as new from Oudomxai Luang Namtha provinces.

Keywords. Coleoptera – Dytiscidae – *Hydrovatus* – *Hyphoporus* – *Agnoshydrus* – *Hyphovatus* – *Hyphydrus* – Laos – systematics – new species

Introduction

Three tribes, Hydrovatini, Hygrotini and Hyphydrini (excl. *Allopachria* and *Microdytes*) represented in Laos by five genera and a total of 25 species: *Hydrovatus* (16 species), *Hyphoporus* (two species), *Agnoshydrus* (two species), *Hyphovatus* (two species) and *Hyphydrus* (three species) are addressed. Together with *Hyphydrus pulchellus* Clark, ten species are recorded here for the first time from Laos and one is described as new. Further, one more from Lao Pako (Vientiane prov.) can be added; however, it is represented only by females, so it was not possible to determine it to species.

In the meantime, nearly all provinces have been investigated but many localities still cannot be visited.

Checklist of the species treated from Laos

Hydrovatini

<i>Hydrovatus subrotundatus</i> Motschulsky, 1859	widespread species	
<i>Hydrovatus fractus</i> Sharp, 1882	widespread species	new record for Laos
<i>Hydrovatus pudicus</i> (Clark), 1863	widespread species	
<i>Hydrovatus laosensis</i> Biström, 1996	Laos, Vientiane Pref.	
<i>Hydrovatus acuminatus</i> Motschulsky, 1859	widespread species	
<i>Hydrovatus seminarius</i> Motschulsky, 1859	widespread species	
<i>Hydrovatus rufoniger rufoniger</i> (Clark, 1863)	widespread species	new record for Laos
<i>Hydrovatus bonvouloiri</i> Sharp, 1882	widespread species	
<i>Hydrovatus rufescens</i> Motschulsky, 1859	widespread species	new record for Laos
<i>Hydrovatus sinister</i> Sharp, 1890	widespread species	
<i>Hydrovatus confertus</i> Sharp, 1882	widespread species	
<i>Hydrovatus subtilis</i> Sharp, 1882	widespread species	
<i>Hydrovatus stridulus</i> Biström, 1997	Thailand, Malaysia, Singapore	new record for Laos
<i>Hydrovatus obtusus</i> Motschulsky, 1855	widespread species	
<i>Hydrovatus pinguis</i> Régimbart, 1892	India, Nepal and Burma	new record for Laos
<i>Hydrovatus wewalkai</i> Biström, 1999	Thailand	new record for Laos

*) Contribution to the study of Dytiscidae 83.

Hygrotini

<i>Hyphoporus tonkinensis</i> Régimbart, 1899	Vietnam	new record for Laos
<i>Hyphoporus oudomxai</i> sp.nov.	Laos (Oudomxai)	

Hyphydrini

<i>Agnoshydrus densus</i>		
Biström, Nilsson et Wewalka, 1997	Thailand and Laos	
<i>Agnoshyrus confusus</i> Wewalka et Biström, 1997	Laos (Champasak)	
<i>Hyphovatus dimorphus</i> (Biström, 1984)	Thailand	new record for Laos
<i>Hyphovatus manfredi</i> Wewalka et Biström, 1994	Thailand	new record for Laos
<i>Hyphydrus lyratus lyratus</i> Swartz, 1808	widespread species	new record for Laos
<i>Hyphydrus sumatrae</i> Régimbart, 1880	widespread species	
<i>Hyphydrus pulchellus</i> Clark, 1863	Japan, China, Vietnam, Myanmar, Laos (?)	
<i>Hyphydrus</i> sp.	Laos (Lao Pako, Vientiane prov.)	

Material and Methods

Most of the specimens obtained by the authors were collected using various kinds of aquatic dip-nets and metal kitchen strainers, as well as by collecting at light. Some specimens were obtained by operating pitfall traps and a flight interception trap (FIT). All specimens were card mounted.

The specimens mentioned in this work are deposited in the following institutional collections, abbreviated in text as:

NHMB	Naturhistorisches Museum Basel, Schweiz
NMPC	Národní muzeum, Prague, Czech Republic
MZH	Museum Zoologicum Helsinkiensis, Helsinki, Finland

Review of the species**Hydrovatini*****Hydrovatus subrotundatus* Motschulsky**

Hydrovatus subrotundatus Motschulsky, 1859, Etudes Entomologiques 8: 41.

Material examined (totally: 132 ex.): Laos: Phongsaly prov., Ban Sano Mai, 21°21'N, 102°03'E, ~1150 m, 19.–26.V.2004, P. Pacholátko leg. (1 ex., NHMB). Udomxai prov., Pak Beng, 19°53'37"N, 101°07'51"E, 450 m, 18.–27.V.2001, Jiří Kolibáč leg. (1 ex., NHMB). Bokeo prov., 5 km W Ban Toup, Bokeo Nature Reserve, 20°27'–28'N, 100°45'E, 500–700 m, 4.–18.V.2011. NHMB Basel Laos 2011 Expedition M. Brancucci, M. Geiser, D. Hauck; Z. Kraus, A. Phantala & E. Vongphachan (16 ex., NHMB). Hua Phan prov., Muanghiam: thermal springs, 20°07'N, 103°22'E 680 m, 15.–16.V.2007, M. Brancucci leg., NHMB Basel, expedition to Laos, 2007 (5 ex. NHMB). Xieng Khouang prov., 30 km NE Phonsavan, Ban Na Lam → Phou Sane Mt., 19°37'–8'N, 103°20'E, 1300–1500 m, 10.–30.V.2009, M. Brancucci leg., NHMB Basel, NMPC Prague Laos 2009 Expedition M. Brancucci, M. Geiser, Z. Kraus, D. Hauck, V. Kubáň. (1 ex., NHMB). Louangnamtha prov., Louangnamtha, 600 m, 31.V.1997, Vít Kubáň leg. (1 ex., NHMB). Louangphrabang prov., Thong Khan, 11–21.V.2002 19°35'N, 101°58'E, 750 m, Vít Kubáň leg. (44 ex. NHMB; 10 ex., MZH). Louangphrabang pr., Khan Riv. 19°53'N, 102°09'E, 300 m, 21.IV.1999, Vít Kubáň leg. (1 ex., NHMB). Louangphrabang pr., Muang Ngoy, 20°43'N, 102°41'E, 500 m, 22.IV.1999, Vít Kubáň leg. (1 ex., NHMB). Xayaboury prov., Xayaboury env., 19°13'N, 101°42'E, 300 m, 27.–30.VI.2010, David Hauck leg. NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (1 ex., NHMB). Xayaboury prov., Hongsa env., 19°40'–44'N, 101°20'E, 550–700 m, 2.–3.VII.2010, David Hauck leg. NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser,

D. Hauck (1 ex., NHMB). Vientiane Prov., Vang-Vieng, 18°55'23"N, 102°026'55"E, 300 m, 10.–15.V. & 1.–6.VI.2001, Jiří Kolibáč leg. (2 ex., NHMB). Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 1.–5.IV.2004, J. Bezděk leg. (3 ex., NMPC). Bolikhamxai prov., Nape – Kae Wan Pass, 18°22.3'N, 105°09.1'E, 600 m, 18.IV.–1.V.1998, E. Jendek & O. Šauša leg. (23 ex., NMPC). Bolikhamxai prov., Ban Nape (8 km NE), 18°21'N, 105°08'E, ~600 m, 1–18.V.2001, V. Kubáň leg. (2 ex. NHMB). Bolikhamxai prov., Pakkading, 18°20'N, 104°00'E, 26–27.V.2003, ~300 m, Vít Kubáň leg. (1 ex., NHMB). Khammouan prov., Nakai env., 17°43'N, 105°09'E, 500–600 m, 22.V.–8.VI.2001, E. Jendek & O. Šauša leg. (3 ex., NMPC). Khammouan prov., Ban Khoun Ngeun, 18°07'N, 104°29'E, 200 m, 19.–31.V.2001, Pacholátko leg., (2 ex., NHMB). Champasak prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35–38'E, 500–800 m 8.–10.VI.2010 M. Geiser & D. Hauck leg., Village, agricultural lands, old secondary and degraded primary forest; hand collecting, beating, light trapping. NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (10 ex., NHMB; 3 ex., MZH).

Distribution. This species is widely distributed in the Oriental region. In Laos it was previously recorded only from Vientiane pref., Vientiane prov. and Luang Prabang prov, and is here reported additionally from the provinces of: Phongsaly, Udomxai, Bokeo, Xieng Khouang, Louangnamtha, Xayabury, Bolikhamxai, Khammouan and Champasak.

Hydrovatus fractus Sharp

Hydrovatus fractus Sharp, 1882, Sci. Trans. R. Dublin Soc. 2(2): 330.

Material examined (totally 73 ex.): Laos: Udomxai prov., Pak Beng, 19°53'37"N, 101°07'51"E, 450 m, 18–27.V.2001, Jiří Kolibáč leg. (1 ex., NHMB). Louangphrabang prov., Ban Song Cha (5 km W), 20°33–4'N, 102°14'E, 1200 m, 10–16.V.1999, Vít Kubáň leg. (1 ex., NHMB). Vientiane prov., Vang-Vieng, 18°55'23"N, 102°026'55"E, 300 m, 10–15.V. & 1–6.VI.2001, Jiří Kolibáč leg. (1 ex., NHMB). Vientiane prov., Lao Pako env., 55 km NE of Vientiane 1.–4.V.2004, F. & L. Kantner leg. (38 ex., NHMB; 8 ex., MZH). Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 19.–22.V.2004, J. Bezděk leg. (5 ex., NMPC). Bolikhamxai prov., 70 km NEE Vientiane, 18°16'N, 103°11'E, 150 m, 27–30.IV. 1997, V. Kubáň leg. (6 ex., NHMB). Champasak prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35–38'E, 500–800 m, 8.–10.VI.2010, M. Geiser & D. Hauck leg. Village, agricultural lands, old secondary and degraded primary forest; hand collecting, beating, light trapping, NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (13 ex., NHMB; 3 ex. MZH).

Distribution. Species distributed in the Oriental region, India, Bangladesh, Thailand, Vietnam, Malaysia (Borneo) and Indonesia (Siberut). This is a new record for Laos Udomxai prov., Vientiane prov., Bolikhamxai and Champasak.

Hydrovatus pudicus (Clark)

Hydroporus pudicus Clark, 1863, Trans. ent. Soc. London (3) 1: 426.

Material examined (totally 56 ex.): Laos. Louangphrabang prov., Thong Khan , 19°35'N, 101°58'E, ~750 m, 11–21.V.2002 , Vít Kubáň leg. (3 ex, NHMB.). Luangprabang prov., Old city centre, 23.VII.2006, in Spinnennetz , M. Geiser leg. (1 ex., NHMB). Xayaboury prov., Xayaboury env., 19°13'N, 101°42'E, 300 m, 27.–30.VI.2010, David Hauck leg. NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (1 ex., NHMB). Xayaboury prov., Hongsa env., 19°40–44'N, 101°20'E, 550–750 m, 2.–3.VII.2010, David Hauck leg. NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (2 ex. NHMB). Vientiane prov., Vang-Vieng, 18°55'23"N, 102°26'55"E, 300 m, 10–15.V. & 1–6.VI.2001, Jiří Kolibáč leg. (1 ex., NMHB). Vientiane prov., Lao Pako env., 55 km NE of Vientiane 1.–4.V.2004, F. & L. Kantner leg. (3 ex., NHMB). Khammouan prov., Ban Khoun Ngeun, 18°07'N, 104°29'E, ~200 m, 19.–31.V.2001, J. Pacholátko leg. (10 ex, NHMB). Champasak prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35–38'E, 500–800 m, 8.–10.VI.2010, M. Geiser & D. Hauck leg. Village, agricultural lands, old secondary and degraded primary

forest; hand collecting, beating, light trapping, NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (27 ex., NHMB; 8 ex. MZH).

Distribution. This species is widely distributed throughout the Oriental region: Burma Thailand, Laos (Vientiane pref., Champasak prov.), Malaysia, Singapore, Sumatra, Java, Bali and Philippines.

Hydrovatus laosensis Biström

Hydrovatus laosensis Biström, 1996, Entomologica Basiliensia 19: 319.

Material examined (totally 2 ex.): Laos: Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 19.–22.V.2004, J. Bezděk leg. (2 ex., NMPC).

Distribution. Species described and known to date only from Vientiane Pref.

Hydrovatus acuminatus Motschulsky

Hydrovatus acuminatus Motschulsky, 1859, Etudes Entomologiques 8: 42.

Material examined (totally 102 ex.): Laos: Phongsaly prov., Ban Nam Li (5 km NW), 21°15'N, 102°14'E, ~900 m, 4.V.2004, P. Pacholátko leg. (3 ex., NHMB). Idem, M. Brancucci leg (1 ex., NHMB). Udomxai prov., Pak Beng, 19°53'37"N, 101°07'51"E, 450 m, 18.–27.V.2001, Jiří Kolibáč leg. (1 ex., NHMB). Bokeo prov., 5 km W Ban Toup, Bokeo Nature Reserve, 20°27'–28'N, 100°45'E, 500–700 m, 4.–18.V.2011, NHMB Basel Laos 2011 Expedition M. Brancucci, M. Geiser, D. Hauck; Z. Kraus, A. Phantala & E. Vongphachan (3 ex. NHMB). Louangnamtha pr., Louang Namtha, 21°00'N, 101°25'E, 600 m, 31.V.1997, Vít Kubáň leg. (2 ex. NHMB). Louangphrabang prov., Khan Riv., 19°53'N, 102°09'E, 300 m, 21.IV.1999, Vít Kubáň leg. (1 ex., NHMB). Louangphrabang prov., Thong Khan, 11–21.V.2002, 19°35'N, 101°58'E, 750 m, Vít Kubáň leg. (45 ex. NHMB; 10 ex., MZH). Xayaboury prov., Xayaboury env., 19°13'N, 101°42'E, 300 m 27.–30.VI.2010, David Hauck leg., NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (2 ex. NHMB). Vientiane prov., Vang-Vieng, 18°55'23"N, 102°26'55"E, 300 m, 10.–15.V. & 1.–6.VI.2001, Jiří Kolibáč leg. (5 ex., NHMB). Vientiane prov., Lao Pako env., 55 km NE of Vientiane 1.–4.V.2004, F. & L. Kantner leg. (2 ex., NHMB). Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 1.–5.IV.2004, J. Bezděk leg. (5 ex., NMPC). Vientiane pref., Vientiane City, 17°55'N, 102°39'E, 150 m, 25.IV.–2.V.1997 Vít Kubáň leg. (2 ex. NHMB). Bolikhamxai prov., 70 km NEE Vientiane, 18°16'N, 103°11'E, 150 m, 27.–30.IV. 1997, V. Kubáň leg. (1 ex. NHMB). Bolikhamsay prov., Nam Kading NPA research training center, near Ban Phone Kham, 18°20'N, 104°08'E, 250 m, 23.–29.V.2011, NHMB Basel Laos 2011 Expedition M. Brancucci, M. Geiser, D. Hauck; Z. Kraus, A. Phantala & E. Vongphachan (4 ex., NHMB). Khammouan pr., Ban Khoun Ngeun, 18°07'N, 104°29'E, ~200 m, 19–31.v.2001, J. Pacholátko leg., (15 ex., NHMB).

Distribution. Species widely distributed in the Oriental region. Also recorded in the Ethiopian region and in the southern and south-eastern Palaearctic: Turkey, Iraq, Arabia and Egypt. From Laos it has been recorded from Vientiane pref. and Luang Prabang prov.

Hydrovatus seminarius Motschulsky

Hydrovatus seminarius Motschulsky, 1859, Etudes Entomologiques 8: 42.

Material examined (totally 268 ex.): Laos: Udomxai prov., Pak Beng, 19°53'37"N, 101°07'51"E, 450 m, 18.–27.V.2001, Jiří Kolibáč leg. (6 ex., NHMB). Phongsaly prov., Ban Namli (5 km NW), 21°15'N, 102°14'E,

~900 m, 4.V.2004, M. Brancucci leg. (18 ex., NHMB). Phongsaly prov., Ban Sano Mai, 21°21'N, 102°03'E, ~1150 m, 19.–26.V.2004, P. Pacholátko leg. (3 ex. NHMB). Bokeo prov., 5 km W Ban Toup, Bokeo Nature Reserve, 20°27'–28'N, 100°45'E, 500–700 m, 4.–18.V.2011, NHMB Basel Laos 2011 Expedition M. Brancucci, M. Geiser, D. Hauck; Z. Kraus, A. Phantala & E. Vongphachan (9 ex., NHMB). Louangnamtha prov., 21°00'N, 101°25'E, 31.V.1997, 600 m, Vít Kubáň leg. (4 ex. NHMB). Louangphrabang prov., Namtha - Muang Sing, 21°09'N, 101°19'E, 900–1200 m, 5.–31.V.1997, Vít Kubáň leg. (4 ex. NHMB). Louangphrabang prov., Thong Khan, 19°35'N, 101°58'E, -750 m, 11.–21.V.2002, Vít Kubáň leg. (95 ex. NHMB; 10 ex., MZH). Hua Phan prov., Phu Loei NP, Ban Sakok, 20°10'N, 103°12'E, 23.–26.V.2001, J. Bezděk leg. (1 ex., NMPC). Hua Phan prov., Muanghiam, thermal springs, 20°07'N, 103°22'E, 680 m, 15.–16.V.2007, M. Brancucci leg., NHMB Basel, Laos expedition 2007 (1 ex., NHMB). Xayaboury prov., Hongsa env., 19°40'–44'N, 101°20'E, 550–700 m, 2.–3.VII.2010, David Hauck leg., NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (1 ex. NHMB). Vientiane prov., Vang-Vieng, 18°55'23"N, 102°02'55"E, 300 m, 10.–15.V. & 1.–6.VI.2001, Jiří Kolibak leg. (17 ex., NHMB). Bolikhamxai prov., Nape - Kae Wan Pass, 18°22.3'N, 105°09.1'E, 600 m, 18.IV.–1.V.1998, E. Jendek & O. Šauša leg. (9 ex., NMPC). Bolikhamxai prov., Ban Nape (8 km NE), 18°21'N, 105°08'E, ~600 m, 1.–18.V.2001, V. Kubáň leg. (1 ex., NHMB). Khammouan prov., Ban Khoun Ngeun, 18°07'N, 104°29'E, -200 m, 24.–29.IV.2001, Vít Kubáň leg. (2 ex., NHMB). Khammouan pr., Ban Khoun Ngeun, 18°07'N, 104°29'E, ~200 m, 19.–31.V.2001 Pacholátko leg. (62 ex. NHMB; 10 ex., MZH). Champasak Prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35'–38'E, 500–800 m, 8.–10.VI.2010, M. Geiser & D. Hauck leg., Village, agricultural lands, old secondary and degraded primary forest; hand collecting, beating, light trapping, NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (15 ex. NHMB).

Distribution. *H. seminarius* is widely distributed in the Oriental region from India to Bali. In Laos previously known from Vientiane pref., Luang Prabang and Pakse.

Hydrovatus rufoniger rufoniger (Clark)

Hyphidrus rufoniger Clark, 1863, Trans. ent. Soc. London (3) 1: 423.

Material examined (totally 86 ex.): Laos, Bokeo prov., 5 km W Ban Toup, Bokeo Nature Reserve, 20°27'–28'N, 100°45'E, 500–700 m, 4.–18.V.2011, NHMB Basel Laos 2011 Expedition M. Brancucci, M. Geiser, D. Hauck; Z. Kraus, A. Phantala & E. Vongphachan (2 ex. NHMB). Xieng Khouang prov., 30 km NE Phonsavan: Ban Na Lam → Phou Sane Mt., 19°37'–8'N, 103°20'E, 1300–1500 m, 10.–30.V.2009, M. Brancucci leg., NHMB Basel, NMPC Prague Laos 2009 Expedition M. Brancucci, M. Geiser, Z. Kraus, D. Hauck, V. Kubáň. (1 ex. NHMB). Louangphrabang prov., Thong Khan, 19°35'N, 101°58'E, -750 m, 11.–21.V.2002, Vít Kubáň leg. (1 ex., NHMB). Vientiane prov., Lao Pako env., 55 km NE of Vientiane, 1.–4.V.2004, F. & L. Kantner leg. (42 ex., NHMB, 10 ex., MZH). Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 1.–5.IV.2004, J. Bezděk leg. (2 ex., NMPC). Bolikhamxai prov., 70 km NEE Vientiane, 18°16'N, 103°11'E, 150 m, 27.–30.IV.1997, V. Kubáň leg. (2 ex., NHMB). Bolikhamxai prov., Pakkading, 18°20'N, 104°00'E, ~300 m, 1.–2.IV.2001, P. Pacholátko leg. (5 ex., NHMB). Bolikhamxai prov., Ban Nape (8 km NE), 18°21'N, 105°08'E, ~600 m, 1.–18.V.2001, V. Kubáň leg. (1 ex., NHMB). Khammouan prov., Nakai env., 17°43'N, 105°09'E, 500–600 m, 22.V.–8.VI.2001, E. Jendek & O. Šauša leg. (4 ex., NMPC). Champasak prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35'–38'E, 500–800 m, 8.–10.VI.2010, M. Geiser & D. Hauck leg., Village, agricultural lands, old secondary and degraded primary forest; hand collecting, beating, light trapping, NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (12 ex., NHMB; 3 ex., MZH).

Distribution. Species widely distributed in the Oriental region, from China to Java. New record for Laos.

***Hydrovatus bonvouloiri* Sharp**

Hydrovatus bonvouloiri Sharp, 1882, Sci. Trans. R. Dublin Soc. 2(2): 335.

Distribution. Widely distributed species from India to Vietnam. In Laos it has been recorded from Luang Prabang prov., Vientiane Pref. and Bolikhamxai.

***Hydrovatus rufescens* Motschulsky**

Hydrovatus rufescens Motschulsky, 1859, Etudes entomologiques 8: 42.

Material examined (totally 76 ex.): Laos, Vientiane prov., Vang-Vieng, 18°55'23"N, 102°026'55"E, 300 m, 10.–15.V. & 1.–6.VI.2001, Jiří Kolibáč leg. (1 ex., NHMB). Vientiane prov., Lao Pako env., 55 km NE of Vientiane, 1.–4.V.2004, F. & L. Kantner leg. (41 ex., NHMB; 10 ex., MZH). Bolikhamxai prov., Pakkading, 18°20'N, 104°00'E, ~300 m, 1.–2.iv.2001, P. Pacholátko leg. (2 ex., NHMB). Khammouan prov., Ban Khoun Ngeun, 18°07'N, 104°29'E, ~200 m, 19.–31.V.2001, Pacholátko leg. (7 ex., NHMB). Champasak Prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35–38'E, 500–800 m, 8.–10.VI.2010, M. Geiser & D. Hauck leg., Village, agricultural lands, old secondary and degraded primary forest; hand collecting, beating, light trapping, NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (13 ex., NHMB; 2 ex., MZH).

Distribution. Species previously known from Burma, Thailand, Cambodia, Indonesia: Sumatra. New record for Laos.

***Hydrovatus sinister* Sharp**

Hydrovatus sinister Sharp, 1890, Trans R. Entomol. Soc. London: 343.

Material examined (totally 63 ex.): Laos: Vientiane prov., Lao Pako env., 55 km NE of Vientiane, 1.–4.V.2004, F. & L. Kantner leg. (1 ex., NHMB). Bolikhamxai prov., Ban Nape (8 km NE), 18°21'N, 105°08'E, ~600 m, 1.–18.V.2001, V. Kubáň leg. (1 ex., NHMB). Champasak Prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35–38'E, 500–800 m, 8.–10.VI.2010, M. Geiser & D. Hauck leg., Village, agricultural lands, old secondary and degraded primary forest; hand collecting, beating, light trapping, NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (51 ex., NHMB; 10 ex., MZH).

Distribution. Widely distributed in the Oriental region (Sri Lanka, India, Burma, Malaysia, Indonesia: Sumatra). This species was previously recorded from Laos (Vientiane prov. and Vientiane pref.).

***Hydrovatus confertus* Sharp**

Hydrovatus confertus Sharp, 1882, Sci. Trans. R. Dublin Soc. 2(2): 329.

Material examined (totally 34 ex.): Laos: Xayaboury prov., Xayaboury env., 19°13'N, 101°42'E, 300 m 27.–30.VI.2010, David Hauck leg., NHMB Basel Laos 20010 Expedition M. Brancucci, M. Geiser, D. Hauck (2 ex. NHMB). Xayaboury prov., Hongsa env., 19°40–44'N, 101°20'E, 550–700 m, 2.–3.VII.2010, David Hauck leg., NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (2 ex. NHMB). Bolikhamxai prov., 70 km NEE Vientiane, 18°16'N, 103°11'E, 150 m, 27.–30.IV.1997, V. Kubáň leg. (1 ex., NHMB). Bolikhamxai prov., Ban Nape (8 km NE), 18°21'N, 105°08'E, ~600 m, 1.–18.V.2001, V. Kubáň leg. (1 ex., NHMB). Khammouan prov., Ban Khoun Ngeun, 18°07'N, 104°29'E, ~200 m, 19.–31.V.2001, Pacholátko leg. (14 ex., NHMB; 4 ex., MZH). Khammouan prov., Nakai env., 17°43'N, 105°09'E, 500–600 m, 22.V.–8.VI.2001, E. Jendek & O. Šauša leg. (9 ex., NMPC). Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 1.–5.IV.2004, J. Bezděk leg. (1 ex., NMPC).

Distribution. This species is widely distributed in the Oriental region. In Laos already recorded from Vientiane pref.

Hydrovatus subtilis Sharp

Hydrovatus subtilis Sharp, 1882, Sci. Trans. R. Dublin Soc. 2(2): 329.

Material examined (totally 10 ex.): Laos: Bokeo prov., 5 km W Ban Toup, Bokeo Nature Reserve, 20°27'–28'N, 100°45'E, 500–700 m, 4.–18.V.2011, NHMB Basel Laos 2011 Expedition M. Brancucci, M. Geiser, D. Hauck; Z. Kraus, A. Phantala & E. Vongphachan (6 ex., NHMB; 1 ex., MZH). Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 1.–5.IV.2004, J. Bezděk leg. (3 ex., NMPC). Bolikhamxai prov., Nape – Kae Wan Pass, 18°22.3'N, 105°09.1'E, 600 m, 18.IV.–1.V.1998, E. Jendek & O. Šauša leg. (1 ex., NMPC).

Distribution. *H. subtilis* is quite widely distributed in the Oriental region. In Laos, it has been recorded only from Vientiane pref.

Hydrovatus stridulus Biström

Hydrovatus stridulus Biström, 1997, Entomologica Basiliensia 19: 529.

Material examined (totally 149 ex.): Laos: Udomxai prov., Pak Beng, 19°53'37"N, 101°07'51"E, 450 m, 18–27.V.2001 Jiří Kolibáč leg. (2 ex., NHMB). Louangnamtha prov., Namtha – Muang Sing, 21°09'N, 101°19'E, 900–1200 m, 5.–31.V.1997, Vít Kubáň leg. (4 ex., NHMB). Louangnamtha prov., Louang Namtha, 21°00'N, 101°25'E, 600 m, 31.V.1997, Vít Kubáň leg. (2 ex., NHMB). Phongsaly prov., Ban Namli (5 km NW), 21°15'N, 102°14'E, ~900 m, 4.V.2004, M. Brancucci leg. (7 ex., NHMB). Bokeo prov., 5 km W Ban Toup, Bokeo Nature Reserve, 20°27'–28'N, 100°45'E, 500–700 m, 4.–18.V.2011, NHMB Basel Laos 2011 Expedition M. Brancucci, M. Geiser, D. Hauck; Z. Kraus, A. Phantala & E. Vongphachan (32 ex., NHMB). Louangphrabang prov., Thong Khan, 19°35'N, 101°58'E, ~750 m, 11.–21.V.2002, Vít Kubáň leg. (34 ex., NHMB; 3 ex., MZH). Vientiane prov., Vang-Vieng, 18°55'23"N, 102°026'55"E, 300 m, 10.–15.V. & 1.–6.VI.2001, Jiří Kolibáč leg. (29 ex., NHMB; 5 ex., MZH). Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 1.–5.IV.2004, J. Bezděk leg. (1 ex., NMPC). Bolikhamxai prov., 70 km NEE Vientiane, 18°16'N, 103°11'E, 150 m, 27.–30.IV.1997, V. Kubáň leg. (1 ex., NHMB). Bolikhamxai prov., Nape – Kae Wan Pass, 18°22.3'N, 105°09.1'E, 600 m, 18.IV.–1.V.1998, E. Jendek & O. Šauša leg. (3 ex., NMPC). Bolikhamxai prov., Ban Nape (8 km NE), 18°21'N, 105°08'E, ~600 m, 1.–18.V.2001, V. Kubáň leg. (9 ex., NHMB). Khammouan prov., Ban Khoun Ngeun, 18°07'N, 104°29'E, ~200 m, 19.–31.V.2001, Pacholátko leg. (5 ex., NHMB). Champasak prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35'–38'E, 500–800 m, 8.–10.VI.2010, M. Geiser & D. Hauck leg., Village, agricultural lands, old secondary and degraded primary forest; hand collecting, beating, light trapping, NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (10 ex., NHMB; 2 ex., MZH).

Distribution. Known from Thailand, Malaysia and Singapore. New records for Laos.

Hydrovatus obtusus Motschulsky

Hydrovatus obtusus Motschulsky, 1855, Etudes Entomologiques 4: 82.

Material examined (totally 26 ex.): Laos: Vientiane prov., Vang-Vieng, 18°55'23"N, 102°026'55"E, 300 m, 10.–15.V. & 1.–6.VI.2001, Jiří Kolibáč leg. (5 ex., NHMB). Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 1.–5.IV.2004, J. Bezděk leg. (3 ex., NMPC). Bolikhamxai prov., 70 km NEE Vientiane, 18°16'N, 103°11'E, 150 m, 27.–30.IV.1997, V. Kubáň leg. (1 ex., NHMB). Bolikhamxai prov., Nape – Kae Wan Pass, 18°22.3'N, 105°09.1'E, 600 m, 18.IV.–1.V.1998, E. Jendek & O. Šauša leg. (4 ex., NMPC). Khammouan prov., Ban Khoun Ngeun, 18°07'N, 104°29'E, ~200 m, 19.–31.V.2001 Pacholátko leg., (8 ex., NHMB; 2 ex., MZH). Champasak Prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35'–38'E, 500–800 m,

8.–10.VI.2010, M. Geiser & D. Hauck leg., Village, agricultural lands, old secondary and degraded primary forest; hand collecting, beating, light trapping, NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (5 ex., NHMB; 1 ex., MZH).

Distribution. Species widely distributed in the Oriental region. In Laos known only from Vientiane pref. to date.

Hydrovatus pinguis Régimbart

Hydrovatus pinguis Régimbart, 1892, Ann. Soc. Entomol. Belg. 36: 114.

Material examined (totally 20 ex.): Laos: Phongsaly prov., Ban Sano Mai, 21°21'N, 102°03'E, ~1150 m, 19.–26.V.2004, P. Pacholátko leg. (1 ex., NHMB). Louangphrabang prov., Ban Song Cha (5 km W), 20°33–4'N, 102°14'E, 1200 m, 10.–16.V.1999, Vít Kubáň leg. (1 ex., NMHB). Xieng Khouang prov., 30 km NE Phonsavan, Ban Na Lam → Phou Sane Mt., 19°37–8'N, 103°20'E, 1300–1500 m, 10.–30.V.2009, M. Brancucci leg., NHMB Basel, NMPC Prague Laos 2009 Expedition M. Brancucci, M. Geiser, Z. Kraus, D. Hauck, V. Kubáň. (1 ex., NHMB). Xayaboury prov., Hongsa env., 19°40–44'N, 101°20'E, 550–700 m, 2.–3.VII.2010, David Hauck leg., NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (2 ex., NHMB). Champasak prov., Ban Nam Touad env. (near Xe Katamtok), 15°06'N, 106°35–38'E, 500–800 m, 8.–10.VI.2010, M. Geiser & D. Hauck leg., Village, agricultural lands, old secondary and degraded primary forest; hand collecting, beating, light trapping, NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (3 ex., NHMB; 1 ex., MZH). Attapeu Prov., Thong Kai Ohk, Ban Kachung (Mai), 15°01–02'N, 107°26–27'E, env. 1200–1450 m, 10.–24.VI.2011, NHMB Basel Laos 2011 Expedition M. Brancucci, M. Geiser, D. Hauck, Z. Kraus, A. Phantala & E. Vongphachan (9 ex., NHMB; 3 ex., MZH).

Distribution. Quite a rare species, known from India, Nepal and Burma. New record for Laos.

Hydrovatus wewalkai Biström

Hydrovatus wewalkai Biström, 1999, Entomologica Fennica 10: 179.

Material examined (totally 1 ex.): Laos: Bokeo prov., 5 km W Ban Toup, Bokeo Nature Reserve, 20°27–28'N, 100°45'E, 500–700 m, 4.–18.V.2011, NHMB Basel Laos 2011 Expedition M. Brancucci, M. Geiser, D. Hauck; Z. Kraus, A. Phantala & E. Vongphachan (1 ex., NHMB).

Distribution. Known from the type material collected in one locality in Thailand. The specimen mentioned here is a new record for Laos.

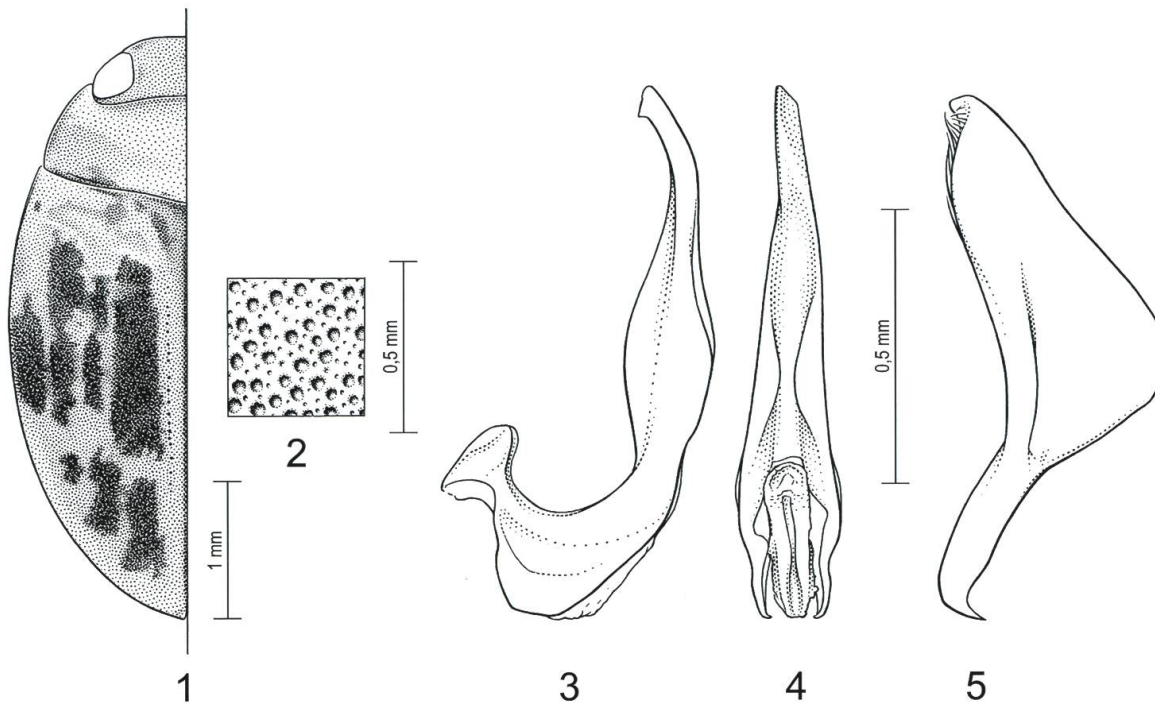
Hygrotini

Hyphoporus tonkinensis Régimbart

Figs 1–5

Hyphoporus tonkinensis Régimbart, 1899, Ann. Soc. Enr. Fr. 68: 204.

Material examined (totally 174 ex.): Laos, Phongsaly prov., Phongsaly env., 21°41–2'N 102°06–8'E, ~1500m, 6.–17.v.2004, P. Pacholátko leg. (1 ex., NHMB). Phongsaly prov., Ban Sano Mai env., 21°21'N 102°03'E, ~1150m, 19.–26.v.2004, M. Brancucci leg. (64 ex., NHMB) ; Idem, P. Pacholátko leg. (86 ex., NHMB). Phongsaly prov., Ban Hat Xa, 21°44'N 102°12'E, ~550m, 17.vi.2003, P. Pacholátko leg. (1 ex., NHMB). Phongsaly prov., 21°44'N 102°12'E, Ban Hatsa, 9.+17.v.2004, ~550m, M. Brancucci leg. (17 ex., NMHB); Idem, P. Pacholátko leg. (5 ex, NHMB)



Figs 1–5. *Hyphoporus tonkinensis* Régimbart: 1 – habitus; 2 – elytral puncturation in basal third; 3 – median lobe in lateral view; 4 – median lobe in dorsal view – 5 right paramere.

Remarks. Species described by Régimbart from Vietnam: A single specimen, labelled “Kao-Bang, Dr. Billet, 30.XI.93”, was found in the collections of the Natural History Museum in Paris. Two further specimens, just labelled “Tonkin” (1 ♂ and 1 ♀), may also belong to the type series. They are labelled lectotype and paralectotype. This labelling was, however, added later and has no legitimacy.

H. tonkinensis appears to be widespread in the very north of Laos. This species is easily recognised because of its smaller size (total length: 4.2 mm; width: 2.6 mm), by the more rounded habitus (Fig. 1), by the median lobe (Figs 3–4) and by the punctation on the elytra (Fig. 2) which is mixed, the smaller punctures being much more numerous, as in *H. oudomxai* sp.nov.

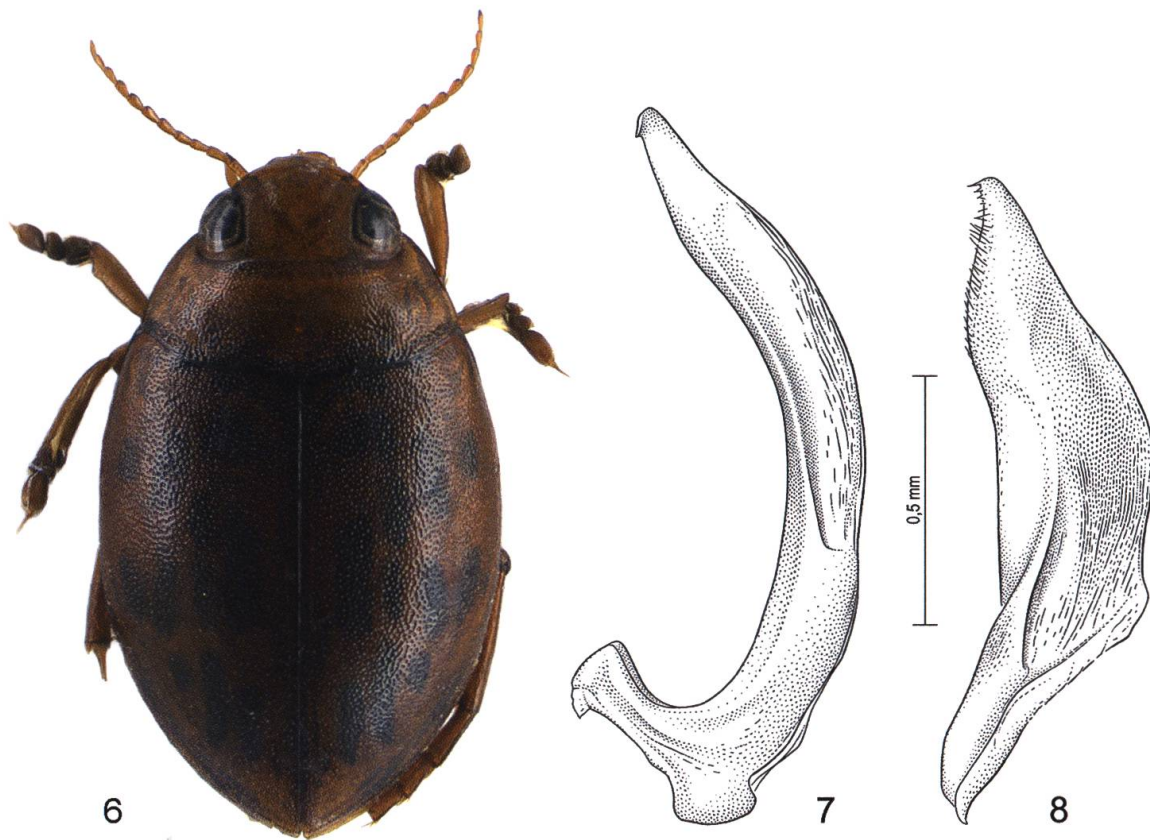
Distribution. A species distributed in Vietnam and Laos. New record for Laos.

Hyphoporus oudomxai sp.nov.

Figs 6–8

Type material. Holotype ♂ (NHMB): Laos, S-Udomxai Prov., Pak Beng 450 m, 19°53'37"N, 101°05'51"E, 18.–27.V.2001, Jiří Kolibáč. Paratype ♂ (NMPC): LAOS, Louang Namtha Prov., MUANG SINGH vill., Pak Beng, P. Kulík leg., 8.–17.VIII.2000.

Description. Body oval-elongate, strongly convex, ferruginous-brown to testaceous-brown with black bands and patches on elytra.



Figs 6–8. *Hyphoporus oudomxai* sp.nov.: 6 – habitus; 7 – median lobe in lateral view; 8 – right paramere.

♂. Head concolorous, ferruginous-brown. Clypeus distinctly and broadly bordered: border tapered at centre; in dorsal view it is rounded, somewhat flattened in the middle. Eyes large; space between eyes 2.2 times wider than the eye diameter. Slight frontoclypeal depression, obliquely prolonged and diminishing towards the rear. Background smooth, except along the eyes where it is finely microreticulate. Punctuation consisting of medium-sized punctures, dense on entire surface. Antennae completely testaceous, joints elongate, the fifth 2.2 times longer than broad.

Pronotum ferruginous-brown to testaceous-brown. Background smooth. Punctuation consisting of dense punctures, somewhat sparser on disc, distinctly closer along margins, particularly along base where they are confluent and form slight wrinkles. Lateral margins distinctly bordered.

Elytra ferruginous-brown with black markings consisting of two basal patches and four longitudinal bands which do reach neither base nor apex and are interrupted at least twice; the bands are converge towards the rear (Fig. 1). Background completely smooth. Punctuation consisting of dense medium-sized punctures mixed with smaller ones. Space between punctures completely smooth.

Underside ferruginous-brown. Prosternal process narrow, strongly depressed and longitudinally keeled but not sharply carinate. Punctuation on a smooth surface consisting

of very large punctures, particularly on the metasternum and metacoxae, getting smaller and denser on sternites, particularly on disc where they are strongly confluent. Last abdominal sternite finely bordered on posterior margin with large punctures on the whole surface, except in the middle of the posterior portion. First three protarsal and mesotarsal joints strongly dilated. Second protarsal joint short, half as long as the first one, third very broad and very long, last very short. Last mesotarsal joint also short, only slightly exceeding the third one. Protarsal and mesotarsal claws very thin and elongate. Mesotibiae narrow at base, then regularly tapered and truncated apically along outer margin. Metatrochanter with fine and slightly impressed longitudinal striation.

Median lobe, in lateral view, long, curved by posterior two-thirds, then strongly tapered and hooked apically (Fig. 7). Parameres elongate (Fig. 8).

♀. Unknown.

Total length: 4.8 mm; width: 2.9 mm.

Etymology. Named after the province in which the holotype of this species was collected, noun in apposition.

Differential diagnosis. This species stands out from all others occurring in Asia. From *H. tonkinensism*, it can be easily distinguished by its larger size, by the elytra punctuation and by the median lobe of the aedeagus.

Distribution. Laos, prov. Luang Namtha, Oudomxai.

Hyphyrini

Agnoshydrus densus Biström, Nilsson et Wewalka

Agnoshydrus densus Biström, Nilsson et Wewalka, 1997, Entomologica Fennica 8: 74.

Material examined (totally 20 ex.): Laos: Vientiane prov., Vang-Vieng, 18°55'23"N, E102°026'55"E, 300 m, 10.–15.V. & 1.–6.VI.2001, Jiří Kolibáč leg. (2 ex., NHMB). Vientiane prov., Lao Pako env., 55 km NE of Vientiane, 1.–4.V.2004, F. & L. Kantner leg. (3 ex., NHMB; 2 ex., MZH). Vientiane prov., 55 km NE Vientiane, Lao Pako, 200 m, 1.–5.IV.2004, J. Bezděk leg. (3 ex., NMPC). Bolikhamxai prov., 70 km NEE Vientiane, 18°16'N, 103°11'E, 150 m, 27–30.IV.1997, V. Kubáň leg. (1 ex., NHMB). Khammouan prov., Ban Khoun Ngeun, 18°07'N, 104°29'E, ~200 m, 19.–31.V.2001, Pacholátko leg. (6 ex., NHMB; 3 ex., MZH).

Distribution. This species was previously known from Thailand and Laos (Vientiane pref.).

Agnoshydrus confusus Wewalka et Biström

Agnoshydrus confusus Wewalka et Biström, 1997, Linzer biol. Beitr. 29(2): 851–854

Distribution. Species described from Laos, Champasak prov., not found since.

Hyphovatus dimorphus (Biström)

Hyphovatus dimorphus Biström, 1984, Annales Entomologici Fennici 50: 21.

Material examined (totally 3 ex.): Laos: Phongsaly prov., Boun Neua (17 km S), 21°38'N, 101°57'E, ~1100 m, 4.V.2004, M. Brancucci leg. (2 ex., NHMB; 1 ex., MZH).

Distribution. Known only from Thailand, the specimens mentioned here are a new record for Laos.

Hyphovatus manfredi Wewalka et Biström

Hyphovatus manfredi Wewalka et Biström, 1994, Koleopterologische Rundschau, 64: 39.

Material examined (totally 11 ex.): Xayaboury prov., Hongsa env., 19°40–44'N, 101°20'E, 550–700 m, 2.–3.VII.2010, David Hauck leg. NHMB Basel Laos 2010 Expedition M. Brancucci, M. Geiser, D. Hauck (9 ex., NHMB; 2 ex. NMPC).

Distribution. Known only from Thailand, the specimens mentioned here are a new record for Laos.

Hyphydrus jacobsoni Biström

Distribution. Recorded from Laos by ŠŤASTNÝ (2007).

Hyphydrus lyratus lyratus Swartz

Hyphydrus lyratus Swartz, 1808, in Schönherr, Synonymia insectorum 1–2: 29.

Material examined (totally 51 ex.): Laos, S-Udomxai Prov., Pak Beng 450 m, 19°53'37"N, 101°05'51"E, 18.–27.V.2001, Jiří Kolibáč (10 ex., NHMB). Bokeo prov., ca. 5 km W Ban Toup, Bokeo Nature Reserve, 500–700 m, 20°27–28' N / 100°45' E, 4.–18. V. 2011; NHMB Laos Expedition 2011, M. Brancucci, M. Geiser, D. Hauck, Z. Kraus, A. Phantala & E. Vongphachan (1 ex., NHMB). Phongsaly prov., Boun Neua (17 km S), 21°38'N, 105°57'E, ~1100 m, 4.V.2004, M. Brancucci leg. (1 ex., NHMB). Phongsaly prov., Ban Sano Mai env., 21°21'N 102°03'E, ~1150m, 19.–26.V.2004, P. Pacholátko leg. (2 ex, NHMB). Louangphrabang prov., Muang Ngoy, 20°43'N, 102°41'E, 500 m, 22.IV.1999, V. Kubáň leg. (9 ex, NHMB). Louangphrabang prov., Khan riv., 19°53'N, 102°09'E, 300 m, 22.IV.1999, V. Kubáň leg. (6 ex, NHMB). Louangphrabang prov., Thong Khan, 19°35'N, 101°58'E, ~750 m, 11.–21.V.2002, V. Kubáň leg. (2 ex, NHMB). Xayaboury prov., Xayaboury env., 19°13'N, 101°42'E, 300 m, 27.–30.VI.2010, D. Hauck leg. (1 ex., NHMB). Vientiane prov., Vang Vieng, 300m, 18°55'23"N, 102°26'55"E, 10.–15.V. % 1.–6.VII.2001, J. Kolibáč (1 ex., NHMB). Vientiane prov., Lao Pako env., 55 km NE of Vientiane, 1.–4.V.2004, F.&L. Kantner leg. (1 ex., NHMB). Bolikhamxai prov., Nape – Kae Wan Pass, 18°22.3'N, 105°09.1'E, 600 m, 18.IV.–1.V.1998, E. Jendek & O. Šauša leg. (4 ex., NMPC). Bolikhamxai prov., Ban Nape (8 km NE), 18°21'N, 105°08'E, ~600 m, 1.–18.V.2001, V. Kubáň leg. (3 ex., NHMB); Idem, Pacholátko leg. (1ex, NHMB). Khammouan prov., Nakai env., 17°43'N, 105°09'E, 500–600 m, 22.V.–8.VI.2001, E. Jendek & O. Šauša leg. (2 ex., NMPC). Champasak Prov., Ban Nam Touad env. (near Xe Katamtok), 500–800 m, 15°06' N, 106°35–38' E, 8.–10. VI. 2010, M. Geiser & D. Hauck (1 ex., NHMB). Laos, Sekong Prov., Tad Faek waterfalls, 15°14.7'N, 106°42.1'E, 118 m, light trap, 8.V.2010, J. Hájek leg. (6 ex., NMPC).

Distribution. Widespread species in the Oriental and Australian regions. It does not appear to have been recorded in Laos yet.

Hyphydrus sumatrae Régimbart

Hyphydrus sumatrae Régimbart, 1880, Notes Leyden Mus. 2: 211.

Material examined (totally 344 ex.) : Laos: Phongsaly prov., Boun Neua (4km E), 21°38'N 101°57'E, ~1100m, 20.VI.2003, P. Pacholátko (1 ex., NHMB). Phongsaly prov., Boun Neua (17 km S), 21°38'N,

105°57'E, ~1100 m, 4.V.2004, M. Brancucci leg. (7 ex., NHMB). Phongsaly prov., Phongsaly env., 21°41–2'N 102°06–8'E, ~1500m, 28.v.–20.vi.2003, M. Brancucci leg. (9 ex., NHMB); Idem, P. Pacholátko leg. (4 ex., NHMB). N, Phongsaly prov., Ban Sano Mai env., 21°21'N 102°03'E, ~1150m, 19.–26.v.2004, M. Brancucci leg. (19 ex., NHMB); Idem, P. Pacholátko leg. (30 ex., NHMB). Phongsaly prov., 21°44'N 102°12'E, BAN Hata, 9.+17.v.2004, ~550m, M. Brancucci leg. (7 ex., NHMB); idem, P. Pacholátko leg. (3ex, NHMB). Louangnamtha prov., Namtha (Muang Sing, 21°09'N, 101°19'E, 5.–31.V.1997, 900–1200 m, V. Kubáň leg. (4 ex, NHMB). Hua Phan prov., Muanghiam, thermal springs, 20°07'N 103°22'E, 680m, 15.–16.v.2007, M. Brancucci leg. (28 ex., NHMB). Houa Phan prov., Ban Meuang Van near Muang Et, 20°49–50'N, 103°59'–104°01–02'E, 300–800 m, 3.–5.VI.2009, M. Geiser leg. (1 ex., NHMB). Hua Phan prov., Phu Phan Mt., ~20°12'N 104°01'E, 1500–1900m, 17.v.–3.vi.2007, M. Brancucci leg. (38 ex., NHMB). Houa Phan prov., Phou Pane Mt., ~20°13'N 104°00'E, 1350–1500 m, 1.–16.vi.2009, M. Brancucci leg. (56 ex., NHMB). Houa Phan prov., Ban Saluei Phou Pane Mt., 20°12–13.5'N 103°59.5'–104°01'E, 1340–1870 m, 10.v.–16.vi.2009, M. Brancucci & local coll. leg. (5 ex., NHMB). Houa Phan prov., Ban Pahang env., 20°42–43'N, 103°59'–104°28–29'E, 1000–1370 m, 7.VI.2009, M. Geiser & D. Hauck leg. (1 ex., NHMB). Xieng Khouang prov., Phonsavan (30 km NE): Phou Sane Mt., 19°38.20'N 103°20.20'E, 1420 m, 10.–30.v.2009, D. Hauck leg. (35 ex., NHMB). Xieng Khouang prov., 30km NE Phonsavan : Ban Na Lam Phou Sane Mt., 19°37–8'N 103°20'E, 1300–1500 m, 10–30.v.2009, M. Brancucci leg. (77 ex., NHMB). Xayaboury prov., Hongsa env., 19°40'N, 101°20'E, 500–750 m, 2–3.VII.2010, D. Hauck leg. (1 ex., NHMB). Bolikhamsay prov., Nam Kading NPA research training center, near Ban Phone Kham, 250 m, 18°20' N / 104°08' E, 23.–29. V. 2011; NHMB Laos Expedition 2011, M. Brancucci, M. Geiser, D. Hauck, Z. Kraus, A. Phantala & E. Vongphachan (1 ex., NHMB). Champasak prov., Dong Hua Xao NBCA, Tad Fane env., (10–14 km W Paksong), 900–1000 m, 15°10–12' N / 106°07–08' E, 2.–4. VI. 2010, M. Geiser & D. Hauck leg. (2 ex., NHMB). Attapeu prov., Thong Kai Ohk, Ban Kachung (MAI) env., 1200–1450 m, 15°01–02' N / 107°26–27' E, 10.–24. VI. 2011; NHMB Laos Expedition 2011, M. Brancucci, M. Geiser, D. Hauck, Z. Kraus, A. Phantala & E. Vongphachan (2 ex.-NHMB). Attapeu prov., Nong Fa crater lake, 1150–1300 m, 15°05–07' N / 107°25' E, 21.–25. VI. 2011; NHMB Laos Expedition 2011, M. Geiser & D. Hauck (13 ex., NHMB).

Distribution. Widespread species occurring from India to Malaysia and Indonesia. In Laos it has been recorded from an unclear locality situated between Vientiane and Luang Prabang.

Hyphydrus pulchellus Clark

Hyphydrus pulchellus Clark, 1863, Trans. Ent. Soc. London 1(3): 420.

Distribution. Widely distributed species known from Japan, China, Vietnam and Myanmar; recorded from Laos by BISTRÖM (1982), with the locality “Annam Laos”, which represents a dubious Laotian locality. This species has not been found again in Laos.

Hyphydrus sp.?

Material examined: Laos, Vientiane prov., Lao Pako env., 55 km NE of Vientiane, 1.–4.V.2004, F.&L. Kantner leg. (3 female ex., NHMB).

Acknowledgements

We should like to thank Armin Coray for the excellent illustrations and Cornelia Klemme for the habitus photograph. Our colleague, Jiří Hájek, Prague, is thanked for comments on the manuscript and for some additional information included in this article.

References

- BISTRÖM O. (1982): *A revision of the genus Hyphydrus Illiger (Coleoptera, Dytiscidae)*. Acta Zoologica Fennica **165**: 1–121.
- BISTRÖM O. (1997): *Taxonomic revision of the genus Hydrovatus Motschulsky (Coleoptera, Dytiscidae)*. Entomologica Basiliensia **19**: 57–584.
- BISTRÖM O., NILSSON A.N. & WEWALKA G. (1997): *A systematic review of the tribes Hyphydrini Sharp and Pachydrini n. trib. (Coleoptera, Dytiscidae)*. Entomologica Fennica **8**: 57–82.
- ŠŤASTNÝ J. (2007): *New species and new records of Hyphydrus Illiger, 1802 from South-East Asia (Coleoptera: Dytiscidae)*. Koleopterologische Rundschau **77**: 67–80.
- WEWALKA G. & BISTRÖM O. (1994): *Hyphovatus gen.n. from Southeast Asia, with description of two new species (Coleoptera: Dytiscidae)*. Koleopterologische Rundschau **64**: 37–43.
- WEWALKA G. & BISTRÖM O. (1997): *A new species of the genus Agnoshydrus (Coleoptera: Dytiscidae)*. Linzer biologische Beiträge **29**: 851–854.

Author's addresses:

Dr. Michel Brancucci †

Former addresses: Naturhistorisches Museum Basel, Augustinergasse 2, CH-4001 Basel, Switzerland

&

University of Basel, Department of Environmental Sciences, Section of Biogeography, St. Johannis-Vorstadt 10, CH-4056, Basel, Switzerland

Olof Biström (corresponding author)

University of Helsinki, Zoological museum

PB 17

FI-00014 Helsinki

FINLAND

E-mail: olof.bistrom@helsinki.fi