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World Catalogue of Haliplidae – corrections and additions, 1

(Coleoptera: Haliplidae)

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Abstract

A series of corrections and additions is given to the World Catalogue of Haliplidae (Coleoptera) recently published in Volume 7 of the “World Catalogue of Insects” (VONDEL 2005). New taxa and synonymies are summarized. Some data on distribution are presented. The number of species of the family Haliplidae is now 206.

Key words: Coleoptera, Haliplidae, World Catalogue.

Introduction

The World Catalogue of the beetle family Haliplidae (VONDEL 2005) was published in June 24, 2005. Since then new information became available, and numerous omissions and errors were detected. This first up-date includes new taxa and other taxonomic acts published until December 31, 2006.

I am grateful to Dr. Hans Fery for his most essential contributions to the present update. The Uyttenbogaart-Eliasen Foundation is acknowledged for financial support.

New species and Nomenclatorial acts

Page 22: Move *Brychius albertanus* to page 23 as synonym of *Brychius hornii*, synonymised by MOUSSEAU 2004: 36.

Page 24: Genus *Haliplus*. Add after “*Haliplus* LATREILLE, 1802: 77; gender masculine; type species *Dytiscus impressus* FABRICIUS, 1787: 193”: “fixed as the type species by VONDEL et al. 2006: 229”.

Page 24: Genus *Haliplus*. *Cnemidotus* ILLIGER, 1802: 297; Replace “not designated (see HOLMEN 1987: 90)” by “*Dytiscus impressus* FABRICIUS 1787, designated by VONDEL et al. 2006: 230”.

Page 24: Genus *Haliplus*. *Hoplitus* CLAIRVILLE, 1806: 218; Replace “not designated (see HOLMEN 1987: 90)” by “*Dytiscus impressus* FABRICIUS 1787, designated by VONDEL et al. 2006: 230”.

Page 24: *Haliplus (Haliplidius) confinis*. Add to list of synonyms:
Haliplus confinis var. *nebulosus* STEPHENS 1828: 41; TL: Great Britain; Syntypes not located.

Page 27: *Haliplus apicalis*. Add to list of literature:
Haliplus seidlitzii REITTER (nomen nudum; collection name in HNHM, NMW, SMFD, ZSM); ZIMMERMANN 1927: 32; GUÉORGUIEV 1965: 129.

Page 29: *Haliplus furcatus*. Remove *Haliplus fluviatilis* var. *maculatus* SEIDLITZ and *Haliplus fluviatilis* ab. *seidlitzii* CSEKI from the list of synonyms.

Page 29: Add the new species:

fuscicornis HOLMEN, VONDEL & PETROV, 2006 PL

Haliplus fuscicornis HOLMEN, VONDEL & PETROV, 2006: 242 in: VONDEL et al. 2006; TL: Russia >East Siberia >river Chona, Vil. okr. raion y. river Nykyn.; Holotype in ZIN.

DISTRIBUTION: (PL) Russia (East Siberia), Kazakhstan.

Page 30: *Haliplus immaculatus*. Add to list of synonyms:

Haliplus immaculatus GERHARDT, 1877b: 38; TL: Poland >Legnica; Syntypes not located. Objective synonym of *Haliplus immaculatus* GERHARDT, 1877a: 36.

Page 32: *Haliplus japonicus*: Add as synonym:

Haliplus brevior NAKANE 1963a: 25; TL: Japan >Honshu >Nagoya >Sikatumura; Holotype in CN. N.SYN.: VONDEL et al. 2006: 250.

Page 32: *Haliplus japonicus*: Add as synonym:

Haliplus hummeli FALKENSTRÖM, 1933: 3; TL: China >Sichuan or Chongqing; Syntypes in NRM; N.SYN.: objective synonym of *Haliplus hummeli* FALKENSTRÖM, 1932.

Page 32: *Haliplus japonicus*: Remove *Haliplus kamiyai* NAKANE from the list of synonyms.

Page 32: Add the following two species:

kamiyai NAKANE, 1963 PL

Haliplus kamiyai NAKANE, 1963: 25; TL: Japan >Honshu >Tokyo; Holotype in CN.

Haliplus kamiyai NAKANE, 1963: 25; (orig. descr., Japan); NAKANE 1985: 62 (Japan).
DISTRIBUTION: (PL) Japan (Honshu).

kirgisiensis HOLMEN & VONDEL, 2006 PL

Haliplus kirgisiensis HOLMEN & VONDEL, 2006: 252 in: VONDEL et al. 2006; TL: Kyrgyzstan >Issyk kul; Holotype in FMNH.

DISTRIBUTION: (PL) Kyrgyzstan.

Page 32: *Haliplus lineolatus*: Add to list of literature:

Haliplus seidlitzii REITTER (nomen nudum; collection name in HNHM, NMW, ZSM): ZIMMERMANN 1919: 99; GUÉORGUIEV 1965: 129.

Page 33: Remove *Haliplus minutus* TAKIZAWA, 1931 and its synonyms.

Page 34: *Haliplus ruficollis*: Add to list of synonyms:

Haliplus fluviatilis var. *maculatus* SEIDLITZ, 1887: 33, preoccupied by MOTSCHULSKY 1860; TL: Finland >Nurmijärvi. Lectotype (selected by HOLMEN and designated here) in ZMT; N.SYN.

Haliplus fluviatilis ab. *seidlitzii* CSEKI, 1946: 563 (replacement name for *maculatus* SEIDLITZ 1887); TL: Finland; Lectotype in ZMT.

Page 35: *Haliplus sibiricus*: Add to list of synonyms:

Haliplus borealis GERHARDT, 1877b: 40; TL: Lapponia; Syntypes not located. Objective synonym of *Haliplus borealis* GERHARDT, 1877a: 36.

Page 35: *Haliplus sibiricus*: Add to list of literature:

Haliplus sibiricus MOTSCHULSKY, 1853: 3 (nomen nudum, made available by MOTSCHULSKY 1860).

Page 35: *Haliplus sibiricus*: Replace “*Haliplus seidlitzii* REITTER (nomen nudum in HNHM and ZSM; Mongolia); N.SYN.: ZIMMERMANN 1919a: 99” by “*Haliplus seidlitzii* REITTER (nomen nudum; collection name in HNHM, NMW, ZSM); N.SYN.”.

Page 36: *Haliplus simplex*: Add to list of synonyms:

Haliplus minutus TAKIZAWA, 1931: 140; TL: Japan >Hokkaido >Sapporo; Lectotype in HUS selected by VONDEL et al. 2006: 265; N.SYN.: VONDEL et al. 2006: 265.

Page 36: *Haliphus simplex*: Add to list of literature:

Haliphus minutus TAKIZAWA, 1931: 140 (orig. descr., Hokkaido, Honshu); SATÔ 1984: 1 (Japan); NAKANE 1985: 62 (Japan).

Page 36: *Haliphus steppensis*: Add to list of synonyms:

Haliphus seidlitzii REITTER (nomen nudum; collection name in HNHM, NMW, SMFD, ZSM); N.SYN.

Page 36: Add the new species:

turkmenicus VONDEL, 2006

Haliphus turkmenicus VONDEL, 2006: 267; TL: Turkmenia >Kara-Kala >Tschaadijr mountains >Anplokea; Holotype in NHMB.

DISTRIBUTION: Turkmenia.

Page 39: *Haliphus bonariensis*: Add to list of literature:

Haliphus bruchi (nomen nudum): ZIMMERMANN 1919: 107.

Page 41: *Haliphus cribarius*: Replace “*cribarius*” by “*cribrarius*”.

Page 42: *Haliphus diruptus*: Add to list of literature:

Haliphus falsificus BALFOUR-BROWNE J. (India). Collection name in NHML.

Page 44: *Haliphus fulvus*: *Haliphus subguttatus*: Insert “CROTCH, 1873: 384 mentioned *subguttatus* as manuscript name (based on specimens labelled ‘*H. subguttatus*, LEC. MSS.’) without describing the species.” after “VONDEL 1991: 103”.

Page 46: *Haliphus gravidus*: Add to list of literature:

Haliphus hydropicus CHEVROLAT. Nomen nudum (vide FLEUTIAUX & SALLÉ 1890: 369) (Guadeloupe).

Page 49: *Haliphus maculatus*: Add to list of literature:

Haliphus maculatus MOTSCHULSKY, 1853: 3 (nomen nudum, made available by MOTSCHULSKY 1860).

Page 53: *Haliphus rufescens*: Add as synonym:

Haliphus rufescens RÉGIMBART, 1895: 8; TL: South Africa >Cape Town; Lectotype in MNHN; objective synonym of *Haliphus rufescens* RÉGIMBART, 1894.

Page 56: *Haliphus uniformis*: Add to list of synonyms:

Haliphus concolor RÉGIMBART, 1895: 8; TL: South Africa >Orange Free State >Bloemfontein; Holotype in MNHN; objective synonym of *Haliphus concolor* RÉGIMBART, 1894.

Page 56: *Haliphus variegatus*: Add to list of literature:

Haliphus variegatus STURM, 1826: 145. (Nomen nudum, made available by STURM 1834: 157).

Page 57: *Haliphus venustus*: Add as synonym:

Haliphus venustus RÉGIMBART, 1895: 7; TL: South Africa >Transvaal >Hamman’s Kraal; Lectotype in MNHN. Objective synonym of *Haliphus venustus* RÉGIMBART, 1894.

Page 59: *Haliphus lineatocollis*: Add to list of literature:

Haliphus lineatocollis var. *dorsalis* KNOCH (nomen nudum): HEER O. 1837: 96.

Page 63: *Haliphus tortilipennis*: Replace “*tortilipennis*” by “*tortilipenis*”.

Page 65: *Peltodytes caesus*: Add to list of synonyms:

Haliphus rotundatus GISTEL 1857: 13; TL: unknown; Syntypes not located; N.SYN.

Page 67: *Peltodytes speratus*: Add as synonym:

Cnemidotus speratus KOLBE 1897: 78 (nomen nudum): RÉGIMBART 1906: 235.

Page 73: Nomina nuda of unknown identity. Replace whole chapter by:

Nomina of unknown identity

Cnemidotus signatus STURM, 1826: 145 (nomen nudum, later attributed to NORWIG by STURM 1843: 41, North America)

- Dytiscus assimilis* MARSHAM 1802: 429.
Haliplus maculatus var. *cibrarius* DEJEAN 1833: 56 (nomen nudum, North America).
Haliplus excavatus STEPHENS 1829: 42 (nomen nudum, Great Britain).
Dytiscus flavidus MARSHAM 1802: 430.
Haliplus lineolatus DAHL, 1823: 15 (nomen nudum, Hungary).
Haliplus maculatus DAHL, 1823: 15 (nomen nudum, Austria).
Haliplus nigriceps STEPHENS 1829: 42 (nomem nudum, Great Britain).
Haliplus obsoletus STURM, 1843: 41 (nomen nudum, North America).
Haliplus pictus STURM, 1843: 41 (nomen nudum, North America).
Haliplus ruficeps STEPHENS 1829: 42 (nomen nudum, Great Britain).
Haliplus styriacus GRIMMER, 1846: 10 (nomen nudum, Austria or Slovenia >Steiermark).
Haliplus ferrugineus var. *testaceus* DEJEAN, 1833: 56 (nomen nudum, Italy).

Distributional notes

- Page 23: *Brychius elevatus*. Add to DISTRIBUTION: Kyrgyzstan.
- Page 23: *Brychius hornii*. Add to DISTRIBUTION: Alberta, Manitoba, Saskatchewan.
- Page 27: *Haliplus apicalis*. DISTRIBUTION: delete “Mongolia” [all literature records were checked recently and prooved to be *H. steppensis* (unpublished)].
- Page 28: *Haliplus dorsomaculatus*. Replace DISTRIBUTION by: (NA) Canada (British Columbia), US (California, Idaho, Montana, Oregon, Utah, Washington, Wyoming).
- Page 29: *Haliplus fulvicollis*. DISTRIBUTION: delete “Great Britain”.
- Page 36: *Haliplus simplex*: Add to DISTRIBUTION: Japan (Hokkaido, Honshu) and Mongolia (unpublished).
- Page 38: *Haliplus angustifrons*: Add to new records: Thailand (MUC). Add to DISTRIBUTION: Thailand.
- Page 44: *Haliplus flavicollis*: Add to new records: Uzbekistan (CHB). Add to DISTRIBUTION: Uzbekistan.
- Page 45: *Haliplus fulvus*: Add to DISTRIBUTION: Mongolia (unpublished).
- Page 47: *Haliplus indicus*: Add to new records: Nepal (CHB). Add to DISTRIBUTION: Nepal.
- Page 49: *Haliplus maculatus*: Add to DISTRIBUTION: Bosnia and Herzegovina, Slovakia, Ukraine.
- Page 50: *Haliplus methneri*: Add to new records: Guinea-Bissau (CNS). Add to DISTRIBUTION: Guinea-Bissau (CNS).
- Page 57: *Haliplus venustus*: Add to new records: Guinea-Bissau (CNS). Add to DISTRIBUTION: Guinea-Bissau (CNS).
- Page 60: *Haliplus borealis*: Add to new records: Kentucky (CNS). Add to DISTRIBUTION: Kentucky.
- Page 63: *Haliplus tortilipenis*: Add to list of literature: WHITEMAN & SITES 2003: 193 (Missouri). Add to DISTRIBUTION: Missouri.
- Page 64: *Haliplus variomaculatus*: Add to list of literature: WHITEMAN & SITES 2003: 194 (Missouri). Add to DISTRIBUTION: Missouri.
- Page 67: *Peltodytes sinensis*: Remove “Hupeh” from the DISTRIBUTION.

Page 69: *Peltodytes duodecimpunctatus*: Add to list of literature: WHITEMAN & SITES 2003: 194 (Missouri). Add to DISTRIBUTION: Missouri.

Page 72: *Peltodytes pedunculatus*: Add to list of literature: WHITEMAN & SITES 2003: 198 (Missouri). Add to DISTRIBUTION: Missouri.

Corrections and additions

Page 11: Add after CN Collection Nakane, Japan: (Since 1999 in Hokkaido University Museum, Sapporo, Japan).

Page 12: Add to list of acronyms: MUC Missouri University, Columbia, USA.

Page 13: Add to list of acronyms: SMFD Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany and ZMT Zoological Museum, University of Kuru, Kuru, Finland.

Page 23: First line: Replace “Syntypes probably in NMPC” by “Holotype in NMW”.

Page 23: Line 17: Add after RYNDEVYCH 1996 (Belorus): OVCHINNIKOV 1996: 108 (Kyrgyzstan).

Page 26: *Haliplus apicalis*. *Haliplinus brevis*: Add “: 43” to “STEPHENS, 1828”.

Page 28: *Haliplus dorsomaculatus*. Line 7. Add: “KENNER 2005: 43 (British Columbia, California, Idaho, Montana, Oregon, Utah, Washington, Wyoming, !Newfoundland, ?Colorado)”.

Page 30: *Haliplus immaculatus*. Replace “...GERHARDT 1877a: 38” by “...GERHARDT 1877a: 36”.

Page 32: *Haliplus lineolatus*: Replace “Finland; Syntypes in MZH” by “Russia >Vborg; Lectotype in ZIN, designated by VONDEL et al. 2006: 255”.

Page 32: *Haliplus lineolatus*; *Haliplus schaumi*: Replace “*Haliplus schaumi* SOLSKY, 1867: 29; TL: Russia >Tambov province >Michurinsk (Koslow); Syntypes in ZISP; N.SYN.: HOLMEN 1987: 127” by “*Haliplus schaumi* SOLSKY, 1867: 29; TL: Russia or Ukraine >Tambov province >Michurinsk or Crimea >Yevpatoria (Koslow); Lectotype in ZIN selected by HOLMEN 1987: 128; N.SYN.: HOLMEN 1987: 127”.

Page 33: Line 4: Replace “1877b” by “1877c”.

Page 34: *Haliplus ruficollis*: In list of literature: Replace “*Haliplus immaculicollis* LUIGIONI, 1929: 149 (given as synonym, Italy)” by “*Haliplus immaculicollis* HARRIS 1828: 164 (misident.): REITTER 1908: 203”.

Page 35: *Haliplus samojedorum*: Replace “Syntypes in MZH & NRM” by “Syntypes in IRSNB, MZH, NMW, NRM”.

Page 35: *Haliplus sibiricus*; *Haliplus borealis*: Replace “1877a: 40” by “1877a: 36”.

Page 35: *Haliplus sibiricus*; *Haliplus wehnckeii*: Replace “1877b: 448” by “1877c: 448”.

Page 36: *Haliplus steppensis*: Replace “Syntypes” by “Holotype”.

Page 36: *Haliplus zacharenkoi*: Replace “GRAMMA” by “GRAMMA & PRYSNYI”.

Page 37: *Haliplus alluaudi*: Replace “1903: 2” by “1903: 1”.

Page 38: *Haliplus astrakhanus*: Add to list of literature: PETROV & EGOROV 2005: 68 (Astrakhan [S.E.T.]).

Page 42: *Haliplus dalmatinus*: Add to list of literature: OVCHINNIKOV 1996: 108 (Kyrgyzstan) [identification needs confirmation].

Page 44: *Haliplus fulvus*: *Haliplus lapponum* var. *niger* SEIDLITZ: Insert “(SAHLBERG in litteris)” after “1887: 31”.

Page 44: *Haliplus fulvus*: *Haliplus fulvus sparreschneideri*: Add to this sentence: “Description based on syntypes with collection name ‘Schneideri’ ”.

Page 46: *Haliplus gravidus*: *Haliplus robustus* in list of literature: Replace “FLEUTIAUX & SALLÉ 1889: 369” by “FLEUTIAUX & SALLÉ 1890: 369”.

Page 46: *Haliplus guttatus*: *Haliplus pelopis*: Replace “1908: 21” by “1908: 20”.

Page 48: *Haliplus kotoshonis*: Replace “1932: 2” by “1931: 2”.

Page 49: *Haliplus maculatus*: *Haliplus flavigollis* var. *russkyi*: Replace “*russkyi* STANGE, 1904: 48” by “*ruszkyi* STANGE, 1903: 6”.

Page 49: *Haliplus maculatus*: in list of literature: Insert “[Ukraine, South European Territory]” after “ZAITZEV 1953: 75 (European USSR)”.

Page 49: *Haliplus maculatus*: in list of literature: Insert “BOUKAL & CSÉFALVAY, 2005: 145 (Czech Republic, Slovakia, Bosnia and Herzegovina, Hungaria, Romania)” after “NARDI 2001: 81 (Turkey)”.

Page 51: *Haliplus mucronatus*: *Haliplus ophthalmicus*: Replace “*ophthalmicus*” by “*ophthalmicus*”.

Page 56: *Haliplus variegatus*: *Haliplus subnubilis*: Replace “*subnubilis*” by “*subnubilus*”.

Page 56: *Haliplus variegatus*: Replace “*Haliplus russkyi* CSIKI, 1946: 568 (nomen nudum)” by “*Haliplus ruszkyi* STANGE, 1903: 6 (nomen nudum); CsiKI 1946: 568 (misident.)”.

Page 57: *Haliplus variegatus*: Insert “OVCHINNIKOV 1996: 108 (Kyrgyzstan) [identification needs confirmation]” after “RYNDEVYCH 1996 (Belorus)”.

Page 58: *Haliplus lineatocollis*: *Haliplus lineatocollis* var. *pallidus*: Insert “(not J. MULLER as in various papers of GUÉORGUIEV)” after “J. SAHLBERG, 1903b: 6”.

Page 62: *Haliplus mutchleri*: Replace “Holotype in AMNH” by “Holotype in CNCI”.

Page 65: *Peltodytes caesus*: *Cnemidotus caesus* var. *levantinus*: Replace “1902: 17” by “1903a: 15”.

Page 65: *Peltodytes caesus*: *Cnemidotus impressus* and *Dytiscus impressus*: Replace “FABRICIUS, 1787” by “FABRICIUS, 1787: 193”.

Page 65: *Peltodytes caesus*: Add to list of literature: OVCHINNIKOV 1996: 108 (Kyrgyzstan).

Page 73: *Peltodytes simplex*: Add to list of literature: KENNER et al. 2003: 89 (British Columbia).

Page 77: Add to references:

GERHARDT J. 1877a: Zur Unterscheidung der Arten aus der Gruppe des *Haliplus ruficollis* de Geer. Zeitschrift für Entomologie. Herausgegeben vom Verein für Schlesische Insektenkunde zu Breslau 6: 34–37.

Page 77: Replace “GERHARDT J. 1877a” by “GERHARDT J. 1877b”.

Replace “GERHARDT J. 1877b: Synonymische Bemerkungen. Deutsche Entomologische Zeitschrift 21: 448” by “GERHARDT J. 1877c: Synonymische Bemerkungen. Deutsche Entomologische Zeitschrift 21: 447–448”.

Page 80: Remove from references:

LEECH H.B. 1949: Addendum to an article “Some Nearctic species of hydraphagid water beetles, new and old (Coleoptera)”. The Canadian Entomologist 81: 116.

Page 80: Add to references:

LEECH H.B. 1949: Some Nearctic species of hydraphagid water beetles, new and old (Coleoptera). The Canadian Entomologist 80 (1948): 89–96.

Page 80: Add to references:

LINNAEUS C. 1758: Systema Naturae. 1. Regnum Animale. 10th ed. Holmiae: 824 pp.

Page 82: RÉGIMBART M. 1886: Replace “Dytiscidae et Gyrinidae” by “Dytiscides et gyrinides”.

Page 84: Remove from references:

STANGE G. 1904: Catalogus collectionis entomologicae in Museo Zoologico Universitatis Kasanensis. Pars 2, nr. 712.

Page 84: Add to references:

STANGE G.V. 1903: Catalogus collectionis entomologicae in museo zoologico Universitatis Kasanensis. 1. Coleoptera (Fam. Haliplidae-Lamellicornia). Ucenija Zapiski Imperatorskago Kazanskago Universiteta 70: 1–52.

Page 84: Add to references:

STURM J. 1826: Catalog meiner Insecten-Sammlung. Erster Teil, Käfer. Nürnberg. Privately printed, 27 pp + 4 pls.

STURM J. 1843: Catalog der Käfer-Sammlung von Jacob Sturm. Nürnberg: Privately printed, xii+386 pp. + 6 pls.

Page 85: WEHNCKE E. 1874: Replace “1874” by “1872”.

Page 86: Add to references:

ZAITZEV F.A. 1915: Les coléoptères aquatiques de la collection Motschulsky. I. Haliplidae, Dytiscidae, Gyrinidae. Ezegodnik Zoologiceskago Muzeja Akademii Nauk 20: 239–295.

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- OVCHINNIKOV, S.V. 1996: Haliplidae, p. 108. – In Tarbinsky, Y.S. (ed.): Genetical Fund Cadastre of Kyrgyzstan. Vol. III. Superclassis Hexapoda (Entognatha and Insecta). – Bishkek: “Aleine”, the ecological movement of Kyrgyzstan and Institute for Biology and Pedology, Kyrgyz Academy of Science, 406 pp.
- PETROV, P.N. & EGOROV, L.V. 2005: Additions to the fauna of the aquatic Adephaga beetles (Coleoptera) of the Volga Region. – Bulletin of Moscow Society of Naturalists. Biological Series. Vol. 110, part 3: 68–69.

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