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World Catalogue of Dytiscidae - corrections and additions, 1 (Coleoptera: Dytiscidae)

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Abstract

A series of corrections and additions are given to the World Catalogue of Dytiscidae (Coleoptera) recently published as Volume 3 of the World Catalogue of Insect Series (NILSSON 2001). A type species is selected of *Badynectus* SEIDLITZ, 1872. The preoccupied name *Hydroporus trimaculatus* THÉOBALD, 1937, is replaced with *Hydroporus theobaldi* nomen novum. The number of recent species of the family Dytiscidae is now 3810.

Key words: Coleoptera, Dytiscidae, world, catalogue, replacement name, type species, corrections, additions.

Introduction

My World Catalogue of the beetle family Dytiscidae (NILSSON 2001) was published on November 22 and included names published up to September 30 the same year. It is my intention to publish regular up-dates of the catalogue based on more recent publications and continuous search for over-looked sources of information. I also want to correct the errors found in the published version of the catalogue so far. This first up-date includes new taxa and other taxonomic acts published up to June 30, 2002.

I have here separated 'corrections' from 'additions'. Corrections simply refer to information given in the catalogue that no longer is valid, either due to errors made when writing up the catalogue, or to more recently published taxonomic acts. Additions refer to names not present in the catalogue, either because they are more recent, or were over-looked by me. All additional valid species-group names refer to species, and all additional valid genus-group names refer to genera.

I also take the opportunity to publish two new taxonomic acts motivated by the observation that one previously over-looked genus-group name was lacking the designation of a type species, and that one previously over-looked species-group name was preoccupied.

The information presented below changes the total number of recent species of the family Dytiscidae to 3810.

Corrections

Page 15: *Agabus*: change number of species to 167; *Acatodes*: change number of species to 69; Group *arcticus* change number of species to 6.

Page 15: *Agabus arcticus*: *Dytiscus arcticus* ... N. COMB.: ERICHSON 1832:37: change page number to 38.

Page 25: *Agabus caraboides* synonym: *Agabus merkli* RÉGIMBART: change year of publication to 1884, also in reference list.

Page 27: *Agabus nebulosus* synonym: *Agabus nebulosus* var. *pratensis* SCHAUFUSS: change year of publication to 1882, also in reference list.

Page 33: *GROUP erichsonii*: change name of group to *erichsoni*.

Page 34: *Ilybius aenescens* synonym: *Ilybius kiesenwetteri* KRAATZ: change year of publication to 1872, also in reference list.

Page 35: *Ilybius fuliginosus* synonym: *Dytiscus foetidus* O.F. MÜLLER: add '?' before.

Page 37: *Leuronectes curtulus*: change reference for DESCR. to TRÉMOUILLES 2000:196; *L. gaudichaudii*: change reference for DESCR. to TRÉMOUILLES 2000:198; *L. muelleri*: change reference for DESCR. to TRÉMOUILLES 2000:200.

Page 42: *Platynectes octodecimmaculatus*: add AU (HENDRICH & BALKE 2000:48).

Page 43: *Platynectes decemnotatus*: change reference for DESCR. to TRÉMOUILLES 2001:88; *P. undecimguttatus*: change reference for DESCR. to TRÉMOUILLES 2001:89

Page 45: *Colymbetes paykulli*: add NA.

Page 50: *Rhantus hispanicus pericaspicus*: N. SYN. of *Rhantus bistrriatus* (BERGSTRÄSSER) vide FERY 2002:28.

Page 57: *Copelatus festae*: replace auctor GRIFFINI with RÉGIMBART.

Page 62: *Copelatus posticatus*: *Dytiscus posticatus* ... N. COMB.: ERICHSON 1832:18: change page number to 39.

Page 67: *Copelatus andamanicus* synonym: *Copelatus sociennus ryukyensis*: change N. SYN. to SATÔ 1983:36; *C. tokaraensis* change N. SYN. to SATÔ 1983:36.

Page 71: *Copelatus tenebrosus* synonym: *Copelatus hisamatsui*: change N. SYN. to SATÔ 1983:36.

Page 71: *Copelatus teranishii* synonym: *Copelatus multistriolatus*: change N. SYN. to SATÔ 1983:36.

Page 79: *Lacconectus ovalis*: replace OR with PL.

Page 79: *Lacconectus similis*: replace Thailand with Laos.

Page 90: *Cybister tripunctatus lateralis*: add PL.

Page 98: *Dytiscus marginalis* synonym: *Dytiscus semistriatus* Linnaeus: change N. SYN. to Füessly 1775:18.

Page 99: *Eretes sticticus* synonym: *Eunectes erichsonii* WHITE: change to nomen nudum and synonym of *E. australis*.

Page 99: *Eretes sticticus*: add AU (WATTS in litt.).

Page 103: *Hydaticus litigiousus*: add PL.

Page 104: *Hydaticus pacificus*: add PL.

Page 106: *Hydaticus servillianus ineptus*: change status to species: N. STAT. HERNANDO & FRESNEDA 1994:151.

Page 114: *Bidessus cacozelus* OMER-COOPER, 1931:752: change page number to 767.

Page 115: *Bidessus ovoideus*: add PL (Egypt).

Page 116: *Bidessus alienus*: change reference after DESCR. to MOUCHAMPS 1956:1.

Page 116: *Bidessus anatolicus*: change year of publication to 1972, also in reference list.

Page 116: *Bidessus tiragalloi*: change status to synonym of *B. muelleri*, N. STAT. PEDERZANI 2001a:300.

Page 117: *Bidessus grossepunctatus*: move to after *B. goudotii*.

Page 120: *Geodessus*: add PL; *G. besucheti*: replace OR with PL.

Page 120: *Hemibidessus bifasciatus*: change reference after DESCR. to MILLER 2002b:267; *H. celinoides*: change reference after DESCR. to MILLER 2002b:265; *H. conicus*: change reference after DESCR. to MILLER 2002b:262; *H. plaumanni*: change reference after DESCR. to MILLER 2002b:260.

Page 122: *Hydroglyphus dakarensis* synonym: *Guignotus virgatipennis* GUIGNOT: change N. SYN. to GUIGNOT 1941:47.

Page 122: *Hydroglyphus flammulatus*: add OR; *H. geminus*: add OR.

Page 123: *Hydroglyphus geminus* synonym: *Dytiscus unistriatus* SCHRANK 1781: change to synonym of *Bidessus unistriatus* GOEZE 1777 N. SYN.

Page 140: *Yola alluaudi*: change year of publication to 1926, also in reference list.

Page 141: *Yola nigrosignata*: add PL (Algeria).

Page 145: *Canthyporus brincki*: change Botswana to Lesotho.

Page 146: *Canthyporus hottentotus*: change to *hottentottus*.

Page 148: *Deronectes wittmeri*: change year of publication to 1971, also in reference list.

Page 149: *Deronectes afghanicus*: change year of publication to 1971, also in reference list.

Page 150: *Deronectes schuberti* & *D. syriacus*: change year of publication to 1971, also in reference list.

Page 151: *Graptodytes aequalis* synonym: *Hydroporus flavipes* var. *octolineatus* SCHAUFUSS: lectotype designated by FERY 2002:28.

Page 151: *Graptodytes flavipes* synonym: *Hydroporus flavipes* var. *manducus* SCHAUFUSS: lectotype designated by FERY 2002:28.

Page 152: *Graptodytes granularis* synonym: *Graptodytes varius rhodanensis* SCHAEFER: synonymy published by FERY 2002:28.

Page 152: *Graptodytes veterator* synonym: *Hydroporus flavipes* var. *montegrinus* SCHAUFUSS: lectotype designated by FERY 2002:28.

Page 152: *Graptodytes veterator*: name conserved by FERY 2002:27.

Page 156: *Hydroporus decipiens*: change year of publication to 1878, also in reference list.

Page 157: *Hydroporus lucasi*: name conserved by FERY 2002:26.

Page 159: *Hydroporus kraatzii*: change year of publication to 1868, also in reference list.

Page 161: *Hydroporus ampliatus*: move to *striola*-group.

Page 163: *Hydroporus nigrita* synonym: *Dytiscus exilis* GMELIN (not *Hydroporus* in original binomen).

Page 166: *Hydroporus tessellatus*: name conserved by FERY 2002:26.

Page 167: *Hydroporus transpunctatus* synonym: *Hydroporus funestus* FALL: change N. SYN. to LARSON et al. 2000:367.

Page 171: *Nebrioporus croceus*: change year of publication to 1993, also in reference list.

Page 171: *Nebrioporus crotchii*: change year of publication to 1871, also in reference list.

Page 171: *Nebrioporus indicus*: add OR.

Page 172: *Nebrioporus princeps*: change to synonym of *N. insignis*, N. SYN. ZALAT et al. 2000:33.

Page 196: *Hydrovatus compactus*: move to before *H. cuspidatus*; *H. cuspidatus*: add AF (Eritrea).

Pages 203-205: Change reference for DESCR. of all African *Herophydrus* species to BISTRÖM & NILSSON 2002 (se actual work for specific pages!).

Page 203: Change 'Syntypes' to 'LT: BISTRÖM & NILSSON 2002' for the following names: *Herophydrus biseriatus*, *H. capensis*, *H. catersi*, *H. confusus*, *H. cooperi*, *H. heros*, *H. hyphoporoides*, *H. ignoratus*, *H. kalaharii*, and *Hyphydrus guineensis*.

Page 203: *Herophydrus bifasciatus*: change to synonym of *H. gigas*, N. SYN. BISTRÖM & NILSSON 2002:69.

Page 203: *Herophydrus biseriatus*: change to synonym of *H. spadiceus*, N. SYN. BISTRÖM & NILSSON 2002:33.

Page 203: *Herophydrus catersi*: change to synonym of *H. kalaharii*, N. SYN. BISTRÖM & NILSSON 2002:54.

Page 203: *Herophydrus coelamboides*: change to synonym of *H. inquinatus*, N. SYN. BISTRÖM & NILSSON 2002:40.

Page 203: *Herophydrus erythraeus*: change to synonym of *H. nodieri*, N. SYN. BISTRÖM & NILSSON 2002:72.

Page 203: *Herophydrus gigas discrepatus*: change status to species, N. STAT. BISTRÖM & NILSSON 2002:68.

Page 203: *Herophydrus inquinatus* synonym: *Herophydrus cooperi*: change to synonym of *H. pallidus*, N. SYN. BISTRÖM & NILSSON 2002:44.

Page 203: *Herophydrus inquinatus* synonym: *Herophydrus ignoratus*: restore status as species, BISTRÖM & NILSSON 2002:39.

Page 203: *Herophydrus inquinatus* synonym: *Herophydrus kalaharii*: restore status as species, BISTRÖM & NILSSON 2002:54.

Page 204: Change 'Syntypes' to 'LT: BISTRÖM & NILSSON 2002' for the following names: *Coelambus interruptus*, *C. muticus*, *Herophydrus expressus*, *H. obscurus*, *H. oscillator*, *H. pallidus*, *H. poecilus*, *H. ritsemae*, *H. rohani*, *H. sjostedti*, and *Hydroporus musicus*.

Page 204: *Herophydrus mutatus*: change to synonym of *H. guineensis*, N. SYN. BISTRÖM & NILSSON 2002:50.

Page 204: *Herophydrus mutatus* synonym: *Herophydrus ruficeps*: change to synonym of *H. guineensis*, N. SYN. BISTRÖM & NILSSON 2002:50.

Page 204: *Herophydrus oscillator*: change to synonym of *H. inquinatus*, N. SYN. BISTRÖM & NILSSON 2002:40.

Page 204: *Herophydrus paradoxus*: change to synonym of *H. rohani*, N. SYN. BISTRÖM & NILSSON 2002:29.

- Page 204: *Herophydrus picturatus*: change to synonym of *H. assimilis*, N. SYN. BISTRÖM & NILSSON 2002:66.
- Page 204: *Herophydrus poecilus*: change to synonym of *H. spadiceus*, N. SYN. BISTRÖM & NILSSON 2002:33.
- Page 205: Change 'Syntypes' to 'LT: BISTRÖM & NILSSON 2002' for the following names: *Herophydrus sobrinus*, *H. spadiceus*, and *H. variabilis*.
- Page 205: *Herophydrus sobrinus*: change to synonym of *H. pallidus*, N. SYN. BISTRÖM & NILSSON 2002:44.
- Page 205: *Herophydrus wahlbergi*: change to synonym of *H. ovalis*, N. SYN. BISTRÖM & NILSSON 2002:61.
- Page 207: *Hygrotus inscriptus*: change N. COMB. to OMER-COOPER, Joseph 1954:258.
- Page 212: *Pseudhydrovatus*: change to synonym of *Hydrovatus*, N. SYN. BISTRÖM 2002:53.
- Page 212: *Pseudhydrovatus antennatus*: change to synonym of *Hydrovatus occidentalis*, N. SYN. BISTRÖM 2002:53.
- Page 214: *Allopachria ullrichi*: transferred to genus *Anginopachria* (WEWALKA et al. 2001).
- Page 223: *Hyphydrus lyratus flavicans*: add PL (Pakistan, Uttar Pradesh).
- Page 227: *Hyphydrus pictus* synonym: *Hyphydrus lugubris*: change year of publication to 1871, also in reference list.
- Page 229: *Microdytes schoenmanni*: add PL (Nepal, Sikkim & Darjeeling).
- Page 239: *Africophilus paulinai*: change to *pauliani*.
- Page 239: *Laccodytes americana*: change to *americanus*.
- Page 247: *Laccophilus minutus*: add OR.
- Page 253: *Laccophilus wittmeri*: add PL (China).
- Page 264: *Ilybius boryslavicus*: replace PL with Pleistocene.
- Page 269: *Palaeodytes gutta*: change Tertiary to Jura; *P. sibiricus*: change Tertiary to Creta.
- Page 270: *Acilius semiscalcatus abbreviatus latiusculoides* HATCH, 1953:236; TL: Canada >British Columbia <US >Idaho, Oregon, Washington; infrasubspecific. –Add: *Acilius semiscalcatus abbreviatus* ab. *latiusculoides* HATCH, 1933:29; TL: US >Washington >King County >Echo Lake; nomen nudum (= *Acilius abbreviatus*). For HATCH 1933 reference see below.
- Page 280: *Hydroporus striolatus* Heer, 1837: this name refers to the publication by HEER 1837 cited in the list below.
- Page 296: ESCHSCHOLTZ 1823: change page numbers to 97-108.
- Page 297: FAUVEL 1903: change volume and page numbers to 22: 203-379.
- Page 308: HLISNIKOVSKÝ 1955a & 1955b: change volume number from 24 to 29.
- Page 311: add reference to LECONTE 1859 as below (description of *Colymbetes densus*).
- Page 314: MILLER 2001e: change authors to MILLER K.B. & LUBKIN S.H.
- Page 314: MONTROUZIER 1865: delete reference as identical with PERROUD & MONTROUZIER 1864.

Page 314: MOTSCHULSKY 1860c: change volume number from 1 to 2.

Page 315: MÜLLER G. 1942: change page numbers to 63-85.

Page 315: NAKANE 1990c; reference corrected as in list below.

Page 334: YOUNG 1950: change name of journal to Occasional Papers of the Museum of Zoology, University of Michigan.

Page 341: *Porhydrus* GUIGNOT: change to 181.

Page 353: *cribratus* SHARP (*Hyphyrus*): change to *Pachyrus*.

Page 354: *daemeli* SHARP (*Desmopachria*): change to *Hydaticus*.

Page 355: *discedens* SHARP (*Hydroporus*): change to 167.

Page 365: *insolatus* GEBLER: change to 49.

Page 368: *lateralis* SHARP (*Derovatellus*): change to *Macrovatellus*.

Page 370: *lugubris* WHITE: change to 270.

Page 375: *nivalis* MOTSCHULSKY: change to 279.

Page 385: *schillhammeri* WEWALKA (*Allophyrus*): change to *Agnoshydrus*.

Additions

Recent names

Species-group

Page 25: Group *guttatus*: *Agabus alexandrae* RIBERA, HERNANDO & AGUILERA, 2001:256; TL: Morocco >Azrou >Lac Afenourir; Holotype.

Page 30: *Andonectes maximus* TRÉMOUILLES, 2001:86; TL: Brasil >São Paulo >Paranapiacaba; Holotype.

Page 54: *Rugosus emarginatus* GARCÍA, 2001:345; TL: Venezuela >Amazonas >Guinia >Yavita >Caño Chivichichi; Holotype.

Page 54: *Rugosus pubis* GARCÍA, 2001:343; TL: Venezuela >Amazonas >Guinia >Yavita >Caño Chivichichi; Holotype.

Page 57: *Copelatus amazonicus*: as this name was described twice by RÉGIMBART, the following junior synonym and homonym has to be added:

Copelatus amazonicus RÉGIMBART, 1899c:2; TL: Brasil >Amazonas >Tarapote <<Ecuador >Santiago valley; Syntypes; preoccupied by RÉGIMBART 1889a; N. SYN.: ZIMMERMANN 1920:137.

Page 72: Group *longicornis*: *Copelatus ibrahimi* ZALAT, SALEH, ANGUS & KASCHEF, 2000:15; TL: Egypt >Suez >Eastern Desert; Holotype.

Page 86: *Notaticus obscurus* GARCÍA & NAVARRO, 2001:144; TL: Venezuela >Sucre >Catuario; Holotype.

Page 109: *Microhydrodytes elachistus* K.B. MILLER, 2002a:3; TL: Brasil >Mato Grosso >Jacaré NP >Xingu; Holotype.

Page 117: *Borneodesus zetteli* BALKE, HENDRICH, MAZZOLDI & BISTRÖM, 2002:967; TL: Malaysia >Sabah >Danum Valley >Sapat Kalisan; Holotype.

- Page 117: *Borneodessus zetteli kalimantanensis* BALKE, HENDRICH, MAZZOLDI & BISTRÖM, 2002:967; TL: Indonesia >East Kalimantan >Apokayan >Sunggai Barang; Holotype.
- Page 148: Group *latus*: *Deronectes toledo* FERY, ERMAN & HOSSEINIE, 2001:342; TL: Turkey >Erzurum province >Toprakkale Köyü; Holotype.
- Page 149: Group *parvicollis*: *Deronectes elburs* FERY, ERMAN & HOSSEINIE, 2001:346; TL: Iran >Tehran province >Sadeghyeh; Holotype.
- Page 120: *Hemibidessus spangleri* K.B. MILLER, 2002b:269; TL: Argentina >Prov. Santa Fe >Reconquista; Holotype.
- Page 120: *Hemibidessus spiroductus* K.B. MILLER, 2002b:257; TL: Bolivia >Dpto Beni >6.7 km NW Trinidad; Holotype.
- Page 129: *Liodessus bordoni* PEDERZANI, 2001a:296; TL: Chile >Antofagasta >Fuentes Termales; Holotype.
- Page 134: *Nirridessus challaensis* WATTS & HUMPHREYS, 2001:103; TL: Australia >WA >Challa Station; Holotype.
- Page 134: *Nirridessus fridaywellensis* WATTS & HUMPHREYS, 2001:104; TL: Australia >WA >Depot Springs Station; Holotype.
- Page 134: *Nirridessus masonensis* WATTS & HUMPHREYS, 2001:106; TL: Australia >WA >Lake Mason Station; Holotype.
- Page 135: *Nirridessus pinnaclesensis* WATTS & HUMPHREYS, 2001:107; TL: Australia >WA >Pinnacles Station; Holotype.
- Page 135: *Nirripirti hinzeae* WATTS & HUMPHREYS, 2001:109; TL: Australia >WA >Depot Springs; Holotype.
- Page 136: *Tjirtudessus raesidensis* WATTS & HUMPHREYS, 2001:101; TL: Australia >WA >Lake Mason Station; Holotype.
- Page 154: *Hydrocolus heggiensis* CIEGLER, 2001:217; TL: US >Georgia >Columbia Co. >Heggie's Rock; Holotype.
- Page 158: Group *fuscipennis*: *Hydroporus tuvaensis* PEDERZANI, 2001b:234; TL: Russia >Tuva >near Sush village; Holotype.
- Page 203: *Herophydrus bilardo* BISTRÖM & NILSSON, 2002:49; TL: Botswana >Moremi reserve; Holotype.
- Page 203: *Herophydrus endroedyi* BISTRÖM & NILSSON, 2002:37; TL: RSA >Orange Free State >Sasolburg; Holotype.
- Page 203: *Herophydrus gigantoides* BISTRÖM & NILSSON, 2002:69; TL: Zaire >Shaba province >Kolwezi; Holotype.
- Page 204: *Herophydrus natator* BISTRÖM & NILSSON, 2002:54; TL: Botswana >Chobe river >Kabulabula; Holotype.
- Page 204: *Herophydrus nigrescens* BISTRÖM & NILSSON, 2002:49; TL: RSA >Zululand >St Lucia >Mission Rock; Holotype.
- Page 204: *Herophydrus wewalkai* BISTRÖM & NILSSON, 2002:57; TL: Namibia >Okavango >Tondoro; Holotype.
- Page 271: *Agabus splendens* STURM, 1843:317; TL >Labrador, nomen nudum.

Page 271: *Agabus sturmii* ab. *maurus* EVERTS, 1903:773; TL: Netherlands >Arnhem, infrasubspecific (= *Agabus sturmii*).

Page 274: *Copelatus takakurai* SATÔ, 1983:37; TL: Japan >Kyushu, nomen nudum (= *Copelatus takakurai*).

Page 276: *Hydaticus derasus* STURM, 1843:317; TL >Cuba, nomen nudum.

Page 280: *Hydroporus signatus* STURM, 1843:317; TL > Turcia, given as synonym (= *Hygrotus marklini*).

Genus-group

Page 15: *Acatodes*: add synonym: *Badynectus* SEIDLITZ, 1872:57, as subgenus of *Agabus*; gender masculine; type species: *Dytiscus fuscipennis* PAYKULL, 1798:200 by present designation; objective synonym of *Acatodes* THOMSON.

Page 54: Colymbetini: *Rugosus* GARCÍA, 2001:340; gender masculine; type species: *Rugosus pubis* GARCÍA, 2001:343 by original designation.

Page 109: Hydrodytinae: *Microhydrodytes* K.B. MILLER, 2002a:3; gender masculine; type species: *Microhydrodytes elachistus* K.B.MILLER 2002a:3 by original designation.

Page 117: *Borneodessus* BALKE, HENDRICH, MAZZOLDI & BISTRÖM, 2002:964; gender masculine; type species: *Borneodessus zetteli* BALKE, HENDRICH, MAZZOLDI & BISTRÖM, 2002:967 by original designation.

Page 135: *Nirripiriti* WATTS & HUMPHREYS, 2001:109; gender masculine; type species: *Nirripiriti hinzeae* WATTS & HUMPHREYS 2001:109 by original designation.

Page 214: *Anginopachria* WEWALKA, BALKE & HENDRICH, 2001:91; gender feminine; type species: *Allopathria ullrichi* BALKE & HENDRICH, 1999:284 by original designation.

Fossil names Species-group

Page 266: *Dytiscus krausei* H.J.KOLBE, 1931:416; TL: Germany >Niederrhein >Oberschlag (Pliocene); Holotype.

Page 266: *Dytiscus latahensis* WICKHAM, 1931:318; TL: US >Washington >Latah Co. >Spokane (Miocene); Holotype.

Page 266: *Dytiscus miocenicus* LEWIS & GUNDERSEN, 1987:3; TL: US >Idaho >Elk River >Oviatt Creek (Miocene); Holotype.

Page 267: *Hydroporus petrefactus* WEYENBERGH, 1869:33; TL: Germany >Bavaria >Solnhofen (Creta); Holotype.

Page 267: *Hydroporus trimaculatus* THÉOBALD, 1937:390; TL: France >Basses-Alpes >Céreste (Oligocene); Holotype. Preoccupied by LAPORTE 1835:106 (now in *Hydropeplus*); here replaced with *Hydroporus theobaldi* nomen novum.

Page 268: *Procoelambus macrocephalus* THÉOBALD 1937:389; TL: France >Basses-Alpes >Céreste (Oligocene); Holotype.

Genus-group

Page 268: Hygrotini: *Procoelambus* THÉOBALD 1937:389; gender masculine; type species: *Procoelambus macrocephalus* THÉOBALD, 1937:389 by monotypy.

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