

***Contacyphon* GOZIS, 1886 removed from synonymy (Coleoptera: Scirtidae) to accommodate species so far combined with the invalid name, *Cyphon* PAYKULL, 1799**

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Abstract

The genus *Contacyphon* Gozis, 1886 (type species *Cantharis variabilis* THUNBERG, 1787, by original designation) is removed from synonymy and resurrected as a proper genus to accommodate all nominal species presently combined with the invalid name, *Cyphon*, under which *Contacyphon* had been placed as junior synonym. The included species are listed in a table. Apomorphies diagnostic of *Contacyphon* are given in the head of the table, known character expressions of individual species are ticked.

Key words

Contacyphon, resurrection, *Cyphon*, invalid name, new combination, character expression, diagnostic apomorphies

Introduction

In his survey of the Swedish fauna G. PAYKULL proposed a new beetle genus, *Cyphon* (PAYKULL 1799, vol. 2, p. 117), with three species. Students could readily identify them from the descriptions. The first („*oblongus, thorace antice rotundatus, palpi posteriores articulo tertio bifurcato*“; contracted text, omissions not marked) was *Cistela pallida* FABRICIUS, 1775, a species of *Elodes* LATREILLE, 1796. The second („*saltatorius*“), *Chrysomela haemisphaerica* LINNAEUS, 1767 belongs in the genus *Scirtes* ILLIGER, 1807. The third included species, *Cyphon coarctatus* PAYKULL, 1799 was characterized by „*thorace antice coarctato emarginato, angulis acuminatis*“. Subsequent students applied the name *Cyphon* to species resembling *C. coarctatus* in habitus. In fact, for many years pointed and projecting pronotal front angles remained the only distinctive character of genus *Cyphon*.

POPE (1976) drew attention to the fact that *Cistela pallida* had been designated as type species of *Elodes* by LATREILLE (1810; International Commission on Zoological Nomenclature [ICZN]1938, 1939, Opinions 11 & 136). The same species had also been designated as type species of *Cyphon* (WESTWOOD 1838; ICZN 1922, Opinion 71). Thereby *Cyphon* became a junior synonym of *Elodes* and is invalid. Nevertheless, students continued to use the name *Cyphon* as though *C. coarctatus* were its type species (e.g., RUTA 2007, KLAUSNITZER 2009b, ZWICK 2013a). Many species from all parts of the world have meanwhile been named in *Cyphon*, all of them very different from *Elodes* although they constitute no homogenous group at all.

POPE (1976) suggested that the desired stable nomenclature could be attained by establishment of a genus based on *C. coarctatus* PAYKULL. However, GOZIS (1886) had previously proposed to replace *Cyphon* by a new genus, *Contacyphon* (from Greek, meaning close to *Cyphon*), designating *variabilis* as type species. NYHOLM (1972) designated lectotypes for both *coarctatus* and *variabilis* and redescribed both. They are closely related even though they are members of different informal species groups within the same genus, *Cyphon*.

GOZIS' (1886) interest was the stability of nomenclature. This did not earn him much approval (e.g., WEISE 1887) as in his handling of matters he was ahead of contemporary colleagues. Even the entry in The Zoological Record (SHARP 1886) appears biased: “In this work the author, inverting the usual practice of zoologists, treats the names as primary objects, and the insects as of secondary importance. In considering an old author, he treats the species placed by him as the first of the genus as being its “type,” and then alters many of our commonest names ...”. This is followed by references to some objecting papers. Not surprisingly, PIC (1914) considered *Cyphon* as the valid name, and *Contacyphon* as its synonym.

The name *Contacyphon* was apparently not used. However, it is available, valid, and herewith re-established. We transfer all formally valid species presently included in *Cyphon* to *Contacyphon*.

This is a formal nomenclatural act. At this point, assignment of a nominal species to the list of species included in *Contacyphon* (Table 1) does not mean that the species displays the constituent apomorphic character expressions characteristic of *Contacyphon*. Larvae and pupae are not considered because they are unknown in most species.

In many presently included species character expressions and membership in *Contacyphon* need future checking. To initiate the necessary critical evaluation and to call for additions by others we enter character expressions in Table 1 that we have observed ourselves, or that have unambiguously been published in the literature. In future, modifications of the list of constituent apomorphies (Table 1) may become possible or necessary.

Table 1 does not include synonymous nominal species of *Cyphon*, and also none that have recently been transferred to other genera, in particular *Herthania* (KLAUSNITZER 2006c), *Ypsilonocyphon* (KLAUSNITZER 2009c), *Brachyocyphon* (RUTA 2009), *Calvarium* (RUTA 2010), *Dermestocyphon* (RUTA, YOSHOTOMI & KLAUSNITZER 2013), *Austrocyphon* (ZWICK 2013b), *Nyholmia*, *Exneria*, and *Yoshitomia* (all three KLAUSNITZER 2013b).

As an interim solution we include nominal *Cyphon* species which we will soon transfer to other genera, known ones or new genera whose names are not yet available (in print or in preparation). The names of the species concerned are asterisked in Table 1.

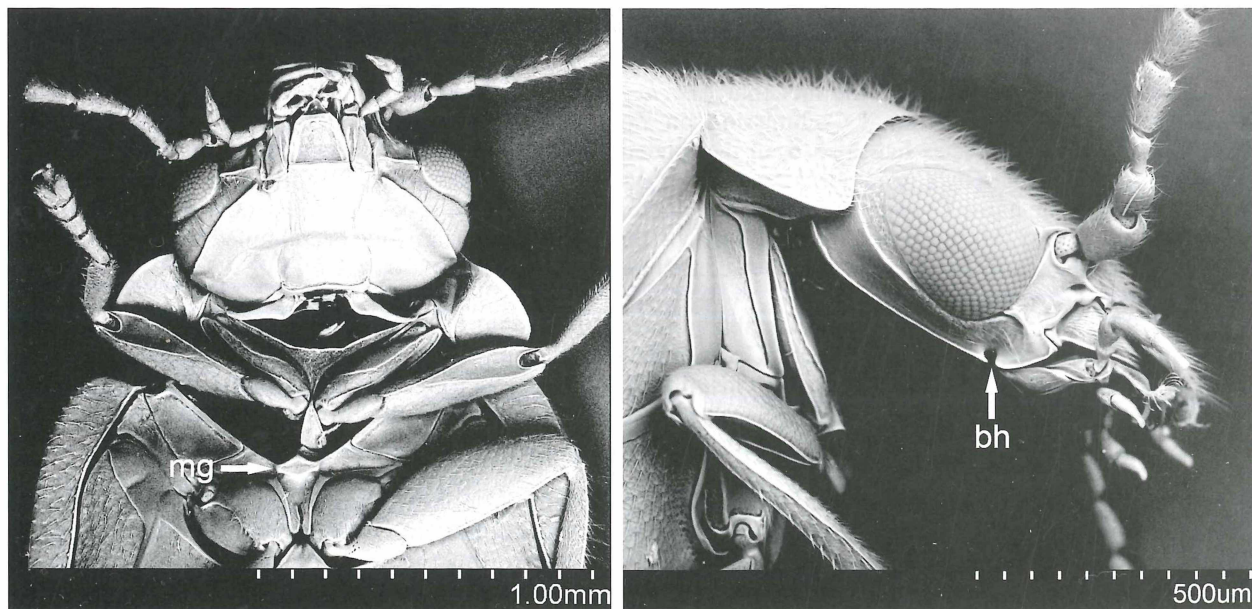
Contacyphon GOZIS, 1886, genus proprium

Type species:

Cantharis variabilis THUNBERG, 1787, by original designation. It becomes *Contacyphon variabilis* (THUNBERG, 1787). The interpretation of the common and widespread Holarctic type species is stable and uniform among students since NYHOLM (1972) designated a lectotype and excellently redescribed the species.

The taxonomic concept of genus *Contacyphon* is the one which was so far applied to *Cyphon*, with recent additions (ZWICK 2013a). The generic diagnosis is presented in the form of eight telegraphic character descriptions in the head of Table 1. Some are self-explanatory, the other are fully described in ZWICK (2013a). Two are additionally illustrated here (Figs. 1, 2).

The list of species included in *Contacyphon* is in Table 1. Except for the type species, each and every name is in a new combination. Where known, character expressions of individual species are indicated. Characters of uncertain phylogenetic significance, for example the projecting or at least distinctly marked pronotal front corners, are not considered.



Figs 1-2. 1, *Contacyphon coarctatus*, ventral view of fore body; 2, *Contacyphon* sp. (New Zealand), lateral view of head. bh, buttonhole; mg, mesoventral groove. Originals by R. Ruta.

Tab. 1

List of nominal species included in *Contacypphon*. Several nominal species (marked by asterisks) will soon be removed to other genera, or be synonymized in papers in print or in preparation. The taxa in question are preliminarily assigned to *Contacypphon* until the respective papers are published. Remarks are signed with our initials.

Agreement with character expressions (coding in the head of the table; descriptions in Zwick, 2013a, see also Figs. 1-2) are indicated by “Y”, disagreement by “no”. Empty cells indicate lack of information.

Note. The brush organ of *Contacypphon* females (Figs. 9-11 in Zwick, 2013a) is composed of hollow structures resembling hairs or setae; their minute base plates form a regular pattern on the cuticle. Females of the New Zealand *C. laticollis* possess a homologon of the brush organ. It agrees in general form but the base plates support no hairlike prolongations into the lumen of the genital duct.

Right mandible with, left without tooth	Mesoventral groove transversely rhomboid (Fig. 1)	Buttonhole configuration of head (Figs. 1, 2)	♂: No trace of S8	♂: paired prosthemes or appendages, no trigonium	♀: apodemes of S8 connected in front	♀: Prehensor present	♀: Brush organ present
Md	MGr	Bu	S8	Pro	♀S8	Pre	BrO

Name	Author, reference: page	Md	MGr	Bu	♂ S8	♂ Pro	♀ S8	♀ Pre	♀ BrO	Range	Remarks
<i>abeillei</i>	Bourgeois, 1884b:42	Y	Y	Y	Y	Y				Turkey, Israel	
<i>acerbus</i>	Broun, 1886:778									New Zealand	
<i>achardi</i>	Pic, 1941:3									Guyana	
<i>aequalis</i>	Sharp, 1878:54									New Zealand	
<i>aethiops</i>	Broun, 1886:959		Y	Y	no	no				New Zealand	unpubl. obs.:PZ
<i>africanus</i>	Laporte, 1836:25									Senegal	
<i>albanicus</i>	Klausnitzer, 1990a:410	Y	Y	Y	Y	Y				Albania	
<i>albidosparsus</i>	Nyholm, 2000:58									New Zealand	
<i>albricci</i>	Pic, 1918b:24									Chile	
<i>algenib</i>	Klausnitzer, 2003:94	Y	Y	Y	Y	Y	Y	Y	Y		Iran
<i>alluaudi</i>	Pic, 1914b:305									Burkina Faso	
<i>alluaudi subjunctus</i>	Pic, 1935:299									Kenya	
<i>americanus</i>	Pic, 1913:164			Y	Y	Y		Y		USA	unpubl. obs.:BK; drawing of prehensor:Tetrault 1967
* <i>ampliceps</i>	Champion, 1897a:622		no	Y	Y	no	no	Y	no	Guatemala, Panama	new genus (RR, in prep)
<i>amplus</i>	Broun, 1880:322									New Zealand	
<i>andreaspuetzi</i>	Klausnitzer, 2012d:244	Y	Y	Y	Y	Y				China	
<i>aopaensis</i>	Yoshitomi, 2012:237				Y	Y				Sulawesi	
<i>apoanus</i>	Yoshitomi, 2009a:91				Y	Y				Philippines:Mindanao	
<i>arcuatosternalis</i>	Klausnitzer, 2013c:732	Y	Y	Y	Y	Y				Sumatra	
<i>arcuatus</i>	Hatch, 1962:101									USA	
<i>arduus</i>	Sharp, 1878:53									New Zealand	
<i>arietizans</i>	Nyholm, 1970:30	Y	Y	Y	Y	Y	Y	Y	Y	Turkey, Caucasus	
<i>asymmetricus</i>	Klausnitzer, 1973a:234	Y		Y	Y	Y				Vietnam	
* <i>atratus</i>	Champion, 1897a:621									Mexico	

Name	Author, reference: page	Md	Mgr	Bu	♂ S8	♂ Pro	♀ S8	♀ Pre	♀ Bro	Range	Remarks
<i>atripennis</i>	Pic, 1918a:5									Taiwan	
<i>atrocinctum</i>	Pic, 1917:2									Vietnam	
<i>attenuatus</i>	Pic, 1952b:16			Y						Vietnam	unpubl. obs.:BK
<i>australis</i>	Klausnitzer, 1991:163	Y	Y	Y	Y	Y	Y	Y	Y	Algeria, Tunisia	
<i>baloghi</i>	Klausnitzer, 1979:2	Y	Y	Y	Y	Y		Y		Papua New Guinea	
<i>baoshanensis</i>	Yoshitomi, 2009b:123				Y	Y				China:Yunnan	
<i>barclayi</i>	Yoshitomi, 2012:238				Y	Y				Sulawesi	
<i>basiliensis</i>	Klausnitzer, 2012d:243	Y	Y	Y	Y	Y				Malaysia	
<i>*besucheti</i>	Klausnitzer, 1980c:219	no		Y	no	no	Y			Ceylon	new genus (BK, in print)
<i>*bifoveolatus</i>	Champion, 1897a:618									Guatemala, Panama	in prep.:RR
<i>binotatus</i>	Pic, 1953a:3									Kongo	
<i>biperforatus</i>	Champion, 1924:298						Y	Y		Seychelles	
<i>brancuccii</i>	Klausnitzer, 2005d:21				Y	Y				Philippinen	
<i>brasiliensis</i>	Guérin-Méneville, 1843:7									Brazil	
<i>bredoi</i>	Pic, 1952c:33									Kongo	
<i>*brevicollis</i>	LeConte, 1866:88	no	Y	Y	no	Y		Y		USA	(BK, in prep.)
<i>brevirostris</i>	Yoshitomi, 2009b:114				Y	Y				Nepal	
<i>brouni</i>	Pic, 1913:164									New Zealand	
<i>buceros</i>	Nyholm, 1949:2	Y	Y	Y	Y	Y	Y	Y	Y	Caucasus, Turkey	
<i>burrowsi</i>	Broun, 1915:320									New Zealand	
<i>albriecii</i>	Pic, 1918b:24									Chile	
<i>cadornai</i>	Pic, 1918b:24				no					Chile	unpubl. obs.:RR
<i>cadornai prolongatus</i>	Pic, 1918b:24									Chile	
<i>caffer</i>	(Boheman, 1851:425)			Y				Y		Natal	unpubl. obs.:RR
<i>*caraibus</i>	Champion, 1897b:294									St. Vincent	new genus (RR, in prep)
<i>carus</i>	Klausnitzer, 1980c:224			Y	Y	Y				Malaysia	
<i>caspicus</i>	Klausnitzer, 1975a:66	Y	Y	Y	Y	Y	Y	Y	Y	Azerbaijan	
<i>cincticollis</i>	Broun, 1915:319									New Zealand	
<i>coarctatus</i>	Paykull, 1799:120	Y	Y	Y	Y	Y	Y	Y	Y	Europe, Siberia	
<i>combustus</i>	Guérin-Méneville, 1843:6									Capland	
<i>*conradi</i>	Pic, 1952d:16									Tanganyka	in prep.:RR
<i>consobrinus</i>	Nyholm, 1949:3	Y	Y	Y	Y	Y	Y	Y	Y	Russian Far East, Kuril Isl.	
<i>convexum</i>	Pic, 1929b:263									Sambia	
<i>*coomani</i>	Pic, 1942:7									Vietnam	in prep.:RR
<i>cooperi</i>	Schaeffer, 1931:174									USA	
<i>coreanicus</i>	Klausnitzer, 1975b:308						Y	Y	Y	Korea, Russian Far East	
<i>corsicus</i>	Nyholm, 1964:54	Y	Y	Y	Y	Y	Y	Y	Y	Corsica	
<i>corumbanum</i>	Pic, 1941:3			Y						Brazil	unpubl. obs.:BK
<i>dalatensis</i>	Pic, 1929a:7									Vietnam	
<i>*debeneyi</i>	Pic, 1918b:22									Ile Banguey	in prep.:RR
<i>decussatus</i>	Nyholm, 2000:61									New Zealand	
<i>*degouttei</i>	Pic, 1918b:22									Guadeloupe	in prep.:RR
<i>*dehiscens</i>	Champion, 1897b:293									St. Vincent	in prep.:RR

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<i>denticatenulatus</i>	Klausnitzer, 2013d:205		Y	Y	Y	Y				South India	
<i>derelictus</i>	Peyerimhoff, 1931:60	Y	Y	Y	Y	Y		Y		Spain, Algeria, Morocco	
<i>desaegeri</i>	Pic, 1952c:34									Kongo	
<i>designandus</i>	Nyholm, 1957:78	Y	Y	Y	Y	Y	Y	Y	Y	Macedonia, Albania	
<i>deterius</i>	Broun, 1914:107									New Zealand	
<i>diazi</i>	Pic, 1918b:21									Ile Banguey	
<i>difficilis</i>	Klausnitzer, 1976b:257	Y	Y	Y	Y	Y	Y	Y	Y	Crete	
<i>dilutus</i>	Broun, 1886:781									New Zealand	
<i>dinginensis</i>	Yoshitomi, 2012:233				Y	Y				Sulawesi	
<i>dinolabis</i>	Nyholm, 1970:40	Y	Y	Y	Y	Y				Turkey	
<i>discedens</i>	Broun, 1893:1143									New Zealand	
<i>discocinctus</i>	Pic, 1918a:5									Madagascar	
<i>discocinctus brevelineatus</i>	Pic, 1918b:19									Madagascar	
<i>*disparatus</i>	Klausnitzer, 1980c:221									India	(BK in prep.)
<i>distans</i>	Klausnitzer, 1977:183			no						Madagascar	unpubl. obs.:BK
<i>diversicolor</i>	Pic, 1914b:304									Tanzania	
<i>diversicolor kilemanus</i>	Pic, 1914b:304									Burkina Faso	
<i>diversicolor similaris</i>	Pic, 1935:300									Kenya	
<i>dolini</i>	Klausnitzer, 2005b:104	Y	Y	Y	Y	Y				Myanmar	
<i>ebmeri</i>	Klausnitzer, 2011a:1475	Y	Y	Y	Y	Y	Y	Y	Y	Vietnam	
<i>echinatus</i>	Klausnitzer, 1982:282				Y	Y				Kuril Isl.	
<i>elgonensis</i>	Pic, 1935:299									Kenya	
<i>erythrinus</i>	Klausnitzer, 1979:4				Y	Y				Papua New Guinea	
<i>espereyi</i>	Pic, 1918b:20									Indonesia:Madura Is.	
<i>euoplus</i>	Nyholm, 1970:38	Y	Y	Y	Y	Y				Turkey, Caucasus	
<i>euryceros</i>	Nyholm, 1970:34	Y	Y	Y	Y	Y	Y	Y	Y	Turkey	
<i>exiguus</i>	Horn, 1880:107									USA	
<i>facetus</i>	Klausnitzer, 1977:182									Madagascar	
<i>fasciatus</i>	Pic, 1931:4									India:Kulu	
<i>*felix</i>	Klausnitzer, 1980f:173									Papua New Guinea	new genus (PZ, in press)
<i>ferrugatulus</i>	Klausnitzer, 1980b:93	Y	Y	Y	Y	Y	Y	Y	Y	Vietnam, Laos	
<i>*flavescens</i>	Motschulsky, 1858:63				Y	Y	Y	Y		Ceylon	new genus (RR, in prep)
<i>formosanus</i>	Pic, 1918a:5				Y	Y				Taiwan, Japan	
<i>*frater</i>	Blackburn, 1892:520									Australia	new genus (PZ, in prep)
<i>furcatisternalis</i>	Klausnitzer, 2012a:10	Y	Y	Y	Y	Y				Thailand	
<i>furcillatus</i>	Nyholm, 1948:3	Y	Y	Y	Y	Y	Y	Y	Y	Bulgaria, Greece	
<i>fuscescens</i>	Klausnitzer, 1976b:452			Y	Y	Y		Y		USA	
<i>fuscifrons</i>	Broun, 1893:1144									New Zealand	
<i>fuscomarginatus</i>	Nakane, 1963a:139									Japan, Kuril Isl.	
<i>gabrielii</i>	Pic, 1918b:22									Borneo	
<i>garibaldii</i>	Pic, 1918b:22									Celebes	

Name	Author, reference: page	Md	Mgr	Bu	♂ S8	♂ Pro	♀ S8	♀ Pre	♀ Bro	Range	Remarks
<i>geiseri</i>	Klausnitzer, 2013a:45	Y	Y	Y	Y	Y				China	
<i>genalis</i>	Sharp, 1878:56									New Zealand	
<i>gerdmuelleri</i>	Klausnitzer, 2010a:164			Y	Y	Y				Laos	
<i>ghesquierei</i>	Pic, 1952c:33									Kongo	
<i>gouraudi</i>	Pic, 1918b:19									Madagascar	
<i>gracilicornis</i>	Wollaston, 1864:214	Y	Y	Y	Y	Y	Y	Y	Y	Canary Is.	
<i>graniger</i>	Sharp, 1878:54									New Zealand	
<i>granulicollis</i>	Broun, 1915:320									New Zealand	
<i>granulosus</i>	Sasagawa, 1985:43				Y	Y				Japan	
<i>groehni</i>	Klausnitzer, 2004:102									Fossil (Baltic amber)	
<i>guatemalensis</i>	Champion, 1897a:622									Guatemala	
<i>guineensis</i>	Pic, 1952d:16									Guinea	
<i>halleri</i>	Pic, 1918b:20									Indonesia:Madura Is.	
<i>halleri reductus</i>	Pic, 1918b:20									Indonesia:Madura Is.	
<i>hamatus</i>	Klausnitzer, 1977:185			Y	Y	Y		Y		Madagascar	
<i>haplous</i>	Klausnitzer, 1976a:216	Y	Y	Y	Y	Y	Y	Y	Y	Bhutan	
<i>helmutsteueri</i>	Klausnitzer, 2011b:103	Y	Y	Y	Y	Y				China	
<i>*henrysi</i>	Pic, 1918b:22									India	in prep.:RR; mistakenly attributed to Papua New Guinea in the original description
<i>heroicus</i>	Pic, 1918b:20									Indonesia:Madura Is.	
<i>herthae</i>	Klausnitzer, 2004:102									Fossil (Baltic amber)	
<i>hiekei</i>	Klausnitzer, 1973b:103			Y	Y	Y				Philippines:Luzon	
<i>hilaris</i>	Nyholm, 1944:21	Y	Y	Y	Y	Y	Y	Y	Y	Europe	
<i>hildebrandi</i>	Klausnitzer, 2003:93									Madagascar	
<i>hirsutus</i>	Pic, 1914b:309									Kilimanjaro	
<i>hoffeinsorum</i>	Klausnitzer, 2011c:11									Fossil (Baltic amber)	
<i>huguesi</i>	Pic, 1918b:23						no	Y		Chile	unpubl. obs.:RR
<i>iberus</i>	Nyholm, 1976:287	Y	Y	Y	Y	Y		Y		Spain, France	
<i>ignoratus</i>	Nyholm, 2000:63									New Zealand	
<i>*impressipennis</i>	Champion, 1897a:620									Guatemala, Panama	in prep.:RR
<i>innotatus</i>	Pic, 1914b:305									Kenya	
<i>innotatus notatus</i>	Pic, 1935:300									Kenya	
<i>insularius</i>	Champion, 1924:296									Inner Seychelles:Mahé, Silhouette	
<i>insuturalis</i>	Pic, 1914b:305									Uganda	
<i>inustulatus</i>	Klausnitzer, 1980b:89	Y	Y	Y	Y	Y		Y		Vietnam	
<i>irritans</i>	Klausnitzer, 1980c:224			Y	Y	Y				India	
<i>ishiharai</i>	Sasagawa, 1985:40									Japan	
<i>jaechi</i>	Yoshitomi, 2002:41				Y	Y				China	
<i>jaegeri</i>	Klausnitzer, 2005a:69			Y	Y	Y				Nepal	

Name	Author, reference: page	Md	Mgr	Bu	♂ S8	♂ Pro	♀ S8	♀ Pre	♀ Bro	Range	Remarks
<i>joffrei</i>	Pic, 1918b:23					Y				Chile	unpubl. obs.:RR
<i>johni</i>	Klausnitzer, 1976c:442	Y	Y	Y	Y	Y	Y	Y	Y	California	
<i>keilbachi</i>	Klausnitzer, 2004:100									Fossil (Baltic amber)	
<i>kongsbergensis</i>	Munster, 1923:292	Y	Y	Y	Y	Y	Y	Y	Y	Holarctic	
<i>kotanus</i>	Yoshitomi, 2009a:90				Y	Y				Malaysia	
<i>laevipennis</i>	Tournier, 1868:64	Y	Y	Y	Y	Y	Y	Y	Y	Palearctic	
<i>lateapicalis</i>	Pic, 1953c:12							Y		Vietnam	unpubl. obs.:BK
<i>lateapicalis</i>	Pic, 1953c:12							Y		Vietnam	unpubl. obs.:BK
<i>lateapicalis vagefasciatus</i>	Pic, 1953c:12									Vietnam	
<i>lateralis</i>	Broun, 1886:780									New Zealand	
<i>laticeps</i>	Sharp, 1878:56									New Zealand	
<i>laticollis</i>	Broun, 1886:777		Y	Y	no	no	Y	Y	Y	New Zealand	unpubl. obs. PZ; see Note in legend
<i>latior</i>	Pic, 1952d:16									Congo	
<i>lemanii</i>	Pic, 1918b:23									Chile	
<i>leoni</i>	Klausnitzer, 1974:101									Madagascar	
<i>lepidulus</i>	Nyholm, 1968:250	Y	Y	Y	Y	Y	Y	Y	Y	Greece, Cyprus, Syria, Iraq, Iran, Caucasus	
<i>liggeti</i>	Pic, 1918b:24					Y				Chile	unpubl. obs.:RR
<i>liggeti piceonotatum</i>	Pic, 1918b:24									Chile	
<i>limbatus</i>	Laporte, 1840:259									Paris	
<i>lindbergi</i>	Nyholm, 1948:6	Y	Y	Y	Y	Y	Y	Y	Y	Spain, Portugal, Morocco	
* <i>lindensis</i>	Blackburn, 1892:522		no	no	no	no	Y	no	no	Australia	new genus (PZ, in prep.)
<i>lithophilus</i> Y	Hernando, Aguilera & Ribera 2003:275	Y	Y	Y	Y	Y		Y		Morocco	
<i>litigiosus</i>	Klausnitzer, 1980d:210	Y	Y	Y	Y	Y				India, Nepal	
<i>loebli</i>	Klausnitzer, 2006b:442	Y	Y	Y	Y	Y				China:Yunnan	
* <i>longipilis</i>	Bourgeois, 1884c:282									New Caledonia	in prep.:RR
<i>longispinus</i>	Nyholm, 1968:250	Y	Y	Y	Y	Y	Y	Y	Y	Turkey	
<i>longiusculus</i>	Nyholm, 1970:26	Y	Y	Y	Y	Y	Y	Y	Y	Turkey, Greece, Israel, Caucasus	
<i>lothari</i>	Klausnitzer, 2010b:214			Y	Y	Y				Laos	
<i>lucidus</i>	Klausnitzer, 1980e:95									New Caledonia	
* <i>lunatus</i>	Solier, 1849:455									Chile	in prep.:RR
* <i>lunulatus semilunulatus</i>	Pic, 1918b:24									Chile	in prep.:RR
<i>luteolineatus</i>	Solier, 1849:459		no	Y	Y	no				Chile	unpubl. obs.:RR
* <i>luteus</i>	Bourgeois, 1884c:281									New Caledonia	in prep.:RR
<i>lyauteyi</i>	Pic, 1918b:20									Ghana	
<i>mckerrowi</i>	Broun, 1895:237									New Zealand	
<i>macedonicus</i>	Nyholm, 1957:77	Y	Y	Y	Y	Y		Y		Greece	
<i>maculatus</i>	Solier, 1849:458		no	Y	Y	no	Y			Chile	unpubl. obs.:RR
* <i>maculicornis</i>	Solier, 1849:457									Chile	in prep.:RR
<i>maculipennis</i>	Klausnitzer, 1968:1	Y	Y	Y	Y	Y		Y		Philippines:Luzon	
<i>madecassus</i>	Pic, 1953b:276									Madagascar	
<i>magicus</i>	Klausnitzer, 1973a:233	Y	Y	Y	Y	Y	Y	Y	Y	Taiwan	
* <i>maistrei</i>	Pic, 1918b:24									Chile	in prep.:RR
<i>manaslu</i>	Klausnitzer, 2009a:249	Y	Y	Y	Y	Y	Y	Y	Y	Nepal	

Name	Author, reference: page	Md	Mgr	Bu	♂ S8	♂ Pro	♀ S8	♀ Pre	♀ Bro	Range	Remarks
<i>mangini</i>	Pic, 1918b:22									Celebes	
<i>mangolensis</i>	Klausnitzer, 1981a:331	Y	Y	Y	Y	Y		Y		Indonesia:Sula Is.	
<i>*marginipennis</i>	Boheman, 1851:426										Natal
<i>*massarti</i>	Pic, 1952c:32									Congo	in prep.:RR
<i>masahiroi</i>	Yoshitomi, 2009b:116				Y	Y				Nepal	
<i>masatakai</i>	Klausnitzer, 2003:233			Y	Y	Y				Myanmar	
<i>maternus</i>	Klausnitzer, 1979:8							Y		Papua New Guinea	
<i>mimodiversicolor</i>	Pic, 1955:135									Rwanda	
<i>*minax</i>	Klausnitzer, 1980f:173									Papua New Guinea	new genus (PZ, in press)
<i>*minutissimum</i>	Pic, 1952d:16									Vietnam	in prep.:RR
<i>minutissimus</i>	Pic, 1914b:308									Kenya	
<i>*mirabile</i>	Pic, 1952d:16									Vietnam	in prep.:RR
<i>mirabilis</i>	Klausnitzer, 1973b:106									Papua New Guinea	
<i>mizoro</i>	Nakane, 1963a:139				Y	Y	Y	Y		Japan	
<i>mobula</i>	Zwick, 2013a:173	Y	Y	Y	Y	Y	Y	Y	Y	Australia	
<i>mobuloides</i>	Zwick, 2013a:177	Y	Y	Y	Y	Y	Y	Y	Y	Australia	
<i>montipanus</i>	Yoshitomi, 2009b:103	Y	Y	Y	Y	Y	Y	Y		Laos	
<i>multinotatus</i>	Pic, 1953b:277									Madagascar	
<i>muluensis</i>	Yoshitomi, 2009b:108	Y	Y	Y	Y	Y				Malaysia	
<i>nagai</i>	Yoshitomi, 2012:232				Y	Y				Sulawesi	
<i>nairobianus</i>	Pic, 1914b:310									Kenia	
<i>neopadi</i>	Klausnitzer, 1976c:440	Y	Y	Y	Y	Y	Y	Y	Y	USA	
<i>neovariabilis</i>	Klausnitzer, 1976c:441	Y	Y	Y	Y	Y	Y	Y	Y	USA	
<i>nepalensis</i>	Yoshitomi, 2009b:112	Y	Y	Y	Y	Y	Y	Y	Y	Nepal	
<i>*niger</i>	Pic, 1931:4									Bolivia	new genus (RR in prep)
<i>nigritulus</i>	Broun, 1893:1144									New Zealand	
<i>nigropictus</i>	Broun, 1886:777									New Zealand	
<i>nigrosignatus</i>	Pic, 1914b:304									Molo (?)	
<i>nipponicus</i>	Yoshitomi, 2005:161				Y	Y				Japan	
<i>nobuoi</i>	Yoshitomi, 2009b:106	Y	Y	Y	Y	Y				Java, Sulawesi	
<i>notatus</i>	Pic, 1918a:5									Madagascar	
<i>*obscurus</i>	Guérin-Méneville, 1843:4			no						USA	new genus (BK, in print)
<i>*oceanicus</i>	Bourgeois, 1884c									New Caledonia	in prep.:RR
	280										
<i>ochraceus</i>	Stephens, 1830:287	Y	Y	Y	Y	Y	Y	Y	Y	Europe	
<i>ochraceus nyholmi</i>	Klausnitzer, 1991:164	Y	Y	Y	Y	Y	Y	Y	Y	Algeria, Tunisia	
<i>ochreatus</i>	Klausnitzer, 1976c:451				Y	Y				N. America	
<i>ornatus</i>	Broun, 1893:1145									New Zealand	
<i>oscillans</i>	Sharp, 1878:54									New Zealand	
<i>osellai</i>	Klausnitzer, 1989:112	Y	Y	Y	Y	Y				Turkey	
<i>ovalis</i>	Motschulsky, 1858:62				Y	Y				Ceylon	
<i>ozensis</i>	Satô, 1982:389				Y	Y				Japan	
<i>*pachymerus</i>	Broun, 1912:432									New Zealand	new genus (RR in prep)
<i>padi</i>	Linnaeus, 1758	Y	Y	Y	Y	Y	Y	Y	Y	Palaeartic	

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<i>pallicolor</i>	Fairmaire, 1885:46		no	Y	Y	no				Argentina:Patagonia	unpubl. obs.:RR
<i>palmi</i>	Nyholm, 1948:5	Y	Y	Y	Y	Y		Y		Italy, France, Morocco	
<i>palustris</i>	Thomson, 1855:320	Y	Y	Y	Y	Y	Y	Y	Y	Palearctic	
<i>pandellei</i>	Bourgeois, 1884a:34	Y	Y	Y	Y	Y		Y		South France, Spain, Portugal	
<i>*parallelus</i>	Champion, 1897a:619									Guatemala	in prep.:RR
<i>pareuoplus</i>	Klausnitzer, 2012c:366	Y	Y	Y	Y	Y				Iran	
<i>parviceps</i>	Sharp, 1878:52									New Zealand	
<i>parvus</i>	Solier, 1849:457		no	Y	Y	no				Chile	unpubl. obs.:RR
<i>*pauliani</i>	Pic, 1942b:149									Mt. Cameroon	in prep.:RR
<i>pauper</i>	Broun, 1893:1143									New Zealand	
<i>pavens</i>	Klausnitzer, 1980f:173	Y	Y	Y	Y	Y				Papua New Guinea	
<i>*pendleburyi</i>	Pic, 1936a:167									Malaya:Pahang	in prep.:RR
<i>perplexus</i>	Blatchley, 1914:89			Y						USA:Florida	unpubl. obs.:BK
<i>perses</i>	Nyholm, 1976:283	Y	Y	Y	Y	Y	Y	Y	Y	Iran	
<i>*peterseni</i>	Klausnitzer, 1973b:109									Bismarck Isl.	new genus (RR in prep)
<i>*petri</i>	Pic, 1918b:21									Ile Banguey	in prep.:RR
<i>pictulus</i>	Sharp, 1878:55									New Zealand	
<i>pigrans</i>	Klausnitzer, 1980f:171	Y	Y	Y	Y	Y				Sumatra	
<i>pilumnus</i>	Klausnitzer, 1980f:171	Y	Y	Y	Y	Y				Sumatra	
<i>placidus</i>	Klausnitzer, 1973b:107			Y	Y	Y				Papua New Guinea	
<i>plagiatus</i>	Broun, 1886:778									New Zealand	
<i>*plaumanni</i>	Pic, 1936b:20									Brazil	new genus (RR in prep)
<i>plumatellus</i>	Broun, 1915:320									New Zealand	
<i>poecilopterus</i>	Nyholm, 2000:62									New Zealand	
<i>poggii</i>	Klausnitzer, 1990b:111	Y	Y	Y	Y	Y				Sardinia	
<i>polycelis</i>	Klausnitzer, 2012b:337	Y	Y	Y	Y	Y				Thailand, Borneo	
<i>ponticus</i>	Nyholm, 1976:285	Y	Y	Y	Y	Y				Turkey	
<i>postcornutus</i>	Klausnitzer, 1973b:101			Y	Y	Y				Philippines:Luzon	
<i>princeps</i>	Nyholm, 2000:59									New Zealand	
<i>propinquus</i>	Broun, 1886:778									New Zealand	
<i>pubescens</i>	Fabricius, 1792:47	Y	Y	Y	Y	Y	Y	Y	Y	Holarctic	
<i>pulvinisternalis</i>	Klausnitzer, 2013b:721	Y	Y	Y	Y	Y				Malaysia:Pahang	
<i>pumilio</i>	Sharp, 1878:53									New Zealand	
<i>puncticeps</i>	Kiesenwetter, 1874:245				Y	Y	Y	Y		Japan	
<i>punctipennis</i>	Sharp, 1872:155	Y	Y	Y	Y	Y	Y	Y	Y	Palearctic	
<i>pusiolus</i>	Nyholm, 2000:65									New Zealand	
<i>putonii</i>	Brisout, 1863:83	Y	Y	Y	Y	Y	Y	Y	Y	Europe	
<i>putzi</i>	Yoshitomi, 2009a:87				Y	Y				China:Yunnan	
<i>*quadrioveolatus</i>	Champion, 1897a:619									Mexico, Guatemala	in prep.:RR
<i>quadristernalis</i>	Klausnitzer, 2012a:12	Y		Y	Y	Y				Thailand	
<i>quadrum</i>	Klausnitzer, 1980a:125	Y	Y	Y	Y	Y				Caspian Sea reg.	
<i>rectalis</i>	Broun, 1886:837									New Zealand	
<i>rectangulus</i>	Broun, 1886:777									New Zealand	
<i>reductus</i>	Zwick, 2013a:178	Y	Y	Y	Y	Y	Y	Y	Y	Australia	
<i>reginae</i>	Pic, 1918b:19									Madagascar	

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<i>reitteri</i>	Klausnitzer, 1976b:256	Y	Y	Y	Y	Y				Caspian Sea reg.	
<i>remotus</i>	Broun, 1886:776									New Zealand	
<i>robusticornis</i>	Pic, 1930:177									Argentina	
<i>*roosvelti</i>	Pic, 1918b:23									Chile	in prep.:RR
<i>rotundosternalis</i>	Klausnitzer, 2012b:342	Y	Y	Y	Y	Y				Nepal	
<i>rotundulus</i>	Klausnitzer, 1980d:211	Y	Y	Y	Y	Y	Y	Y	Y	India	
<i>ruficeps</i>	Tournier, 1868:54	Y	Y	Y	Y	Y	Y	Y	Y	Europe	
<i>sadanarii</i>	Yoshitomi, 2009b:110				Y	Y	Y	Y		Vietnam	
<i>sagadanus</i>	Yoshitomi, 2009a:93				Y	Y				Philippines:Luzon Isl.	
<i>sampuragensis</i>	Yoshitomi, 2012:239				Y	Y				Sulawesi	
<i>*savitchi</i>	Pic, 1918b:20									Indonesia:Madura Is.	in prep.:RR
<i>scabridus</i>	Klausnitzer, 1980f:174	Y	Y	Y	Y	Y				Papua New Guinea	
<i>schawalleri</i>	Klausnitzer, 2006b:445	Y	Y	Y	Y	Y				China:Yunnan	
<i>schmidti</i>	Klausnitzer, 2006b:446	Y	Y	Y	Y	Y				Nepal	
<i>*schwabei</i>	Pic, 1938:332									Chile	new genus (RR in prep)
<i>scopularis</i>	Klausnitzer, 2013b:719	Y	Y	Y	Y	Y				Indien	
<i>*sculptipennis</i>	Pic, 1931:5									Brazil	new genus (RR in prep)
<i>scurrula</i>	Nyholm, 1970:39	Y	Y	Y	Y	Y	Y	Y	Y	Turkey, Bulgaria	
<i>semidiscoidalis</i>	Pic, 1952c:44									Kongo	
<i>semiobscurum</i>	Pic, 1953a:3									Kongo	
<i>setulipennis</i>	Klausnitzer, 1976c:452							Y		USA	
<i>setulosus</i>	Klausnitzer, 1973b:99	Y	Y	Y	Y	Y				Philippines:Tawi	
<i>siculus</i>	Tournier, 1868:74	Y	Y	Y	Y	Y	Y	Y	Y	Europe	
<i>signatipenne</i>	Pic, 1941:3			Y		Y				Brazil	unpubl. obs.:RR
<i>signatipennis</i>	Pic, 1952c:34									Kongo	
<i>sikorai</i>	Pic, 1952a:7									Madagascar	
<i>simplex</i>	Klausnitzer, 1981b:63	Y	Y	Y	Y	Y				Iran	
<i>simulans</i>	Klausnitzer, 1979:4	Y	Y	Y	Y	Y				Papua New Guinea	
<i>solarii</i>	Nyholm, 1957:75	Y	Y	Y	Y	Y				Italy	
<i>sparsepunctatus</i>	Pic, 1914b:303									Kenya	
<i>*spinulosus</i>	Klausnitzer, 1976c:449									USA	new genus (BK, in print)
<i>sternoforceps</i>	Klausnitzer, 2013c:730	Y	Y	Y	Y	Y				Borneo	
<i>subvariegatus</i>	Nyholm, 2000:65									New Zealand	
<i>suffusus</i>	Sharp, 1878:55									New Zealand	
<i>sulcatipenne</i>	Pic, 1936a:167									Borneo	
<i>sulcicollis</i>	Mulsant et Rey, 1865:87	Y	Y	Y	Y	Y	Y	Y	Y	Europe	
<i>suspiciosus</i>	Klausnitzer, 1980d:209	Y	Y	Y	Y	Y				India	
<i>tabidus</i>	Kiesenwetter, 1859:412									Greece, Zante	
<i>tertius</i>	Klausnitzer, 1976a:218	Y	Y	Y	Y	Y				Bhutan	
<i>tetranematus</i>	Yoshitomi, 2009b:126				Y	Y				Thailand	
<i>thailandicus</i>	Ruta, 2004:372			Y	Y	Y				Thailand	

Name	Author, reference: page	Md	Mgr	Bu	♂ S8	♂ Pro	♀ S8	♀ Pre	♀ Bro	Range	Remarks
<i>thaleri</i>	Klausnitzer, 2005b:106	Y	Y	Y	Y	Y				Myanmar:Kambaiti, China:Yunnan	
<i>thomasi</i>	Pic, 1914a:35									New Zealand	
* <i>tonkineus</i>	Pic, 1942a:8									Tonkin	in prep.:RR
<i>topali</i>	Klausnitzer, 1980b:90			Y	Y	Y		Y		Vietnam	
* <i>torquatus</i>	Gemminger, 1869:125									Chile	in prep.:RR
<i>tristis</i>	Gemminger, 1869:125									Chile	
<i>trivialis</i>	Broun, 1886:959									New Zealand	
* <i>truncatus</i>	Champion, 1897a:620									Guatemala	in prep.:RR
<i>tsushimanus</i>	Yoshitomi, 2005:164				Y	Y				Japan	
<i>umbricolor</i>	Nyholm, 2000:61									New Zealand	
<i>unguiculatus</i>	Nyholm, 1949:2	Y	Y	Y	Y	Y	Y	Y	Y	Italy	
<i>unidentatus</i>	Klausnitzer, 2006a:116	Y	Y	Y	Y	Y				China:Guanxi	
<i>unipunctatus</i>	Klausnitzer, 1980d:212	Y	Y	Y	Y	Y				India, Thailand, Indonesia	
<i>urselmuellerae</i>	Klausnitzer, 2010a:160	Y	Y	Y	Y	Y				Laos	
<i>ussuricus</i>	Nyholm, 1948:5	Y	Y	Y	Y	Y	Y	Y	Y	Russian Far East	
<i>variabilis</i>	Thunberg, 1787:54	Y	Y	Y	Y	Y	Y	Y	Y	Holarctic	
<i>variegatus</i>	Sharp, 1882:87									New Zealand	
<i>venustus</i>	Klausnitzer, 1977:189									Madagascar	
* <i>viridipennis</i>	Broun, 1880:322									New Zealand	new genus (RR, in prep)
<i>waikatoensis</i>	Broun, 1886:838									New Zealand	
<i>wallacei</i>	Yoshitomi, 2012:235				Y	Y				Sulawesi	
<i>weigeli</i>	Klausnitzer, 2005c:300				Y	Y				Nepal	
<i>wetterlei</i>	Pic, 1918b:19									Abyssinia	
<i>wichardi</i>	Heuss, 2008:132									Fossil (Baltic amber)	
<i>wittmeri</i>	Nyholm, 1970:32	Y	Y	Y	Y	Y				Turkey	
<i>wuorentausi</i>	Nyholm, 1949:4							Y		Russian Far East	
<i>yakushmanus</i>	Yoshitomi, 2005:166				Y	Y				Japan	
<i>zealandicus</i>	Sharp, 1878:55		Y	Y	no	no				New Zealand	unpubl. obs. PZ

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