

A CHECKLIST OF THE GENUS *BLOSyrus* SCHOENHERR (COLEOPTERA: CURCULIONIDAE: ENTIMINAE) OF THE WORLD

G. Mahendiran¹ & V.V. Ramamurthy²

^{1,2}National Pusa Collection, Division of Entomology, Indian Agricultural Research Institute, New Delhi 110012, India

¹mahi.iari@gmail.com (corresponding author), ²vvr_ento@iari.res.in

The family Curculionidae comprises about 4,600 genera and 51,000 described species. It is larger than any other in weevils and comprises in excess of 80% of all weevil species (Oberprieler et al. 2007). The broad-nosed weevils of the subfamily Entiminae with more than 12,000 described species, are the largest group of weevils and they are distributed world wide, mostly in tropical parts. They include many agriculturally important pests (Yunakov & Nadein 2006).

Blosyrus Schoenherr is one of the important genera within the tribe Blosyrini (Curculionidae: Entiminae). The genus *Blosyrus* Schoenherr was first described as a subgenus of *Thylacites* by Schoenherr (1826) under the broad group Gonatoceri, and later it was elevated to a genus (Schoenherr 1833). Jekel (1875) described *Blosyrinus* a subgenus of *Blosyrus*, while Marshall (1916) synonymized it with *Blosyrus*. Similarly, the subgenera *Blosyridius* Fairmaire (1891) and *Maes* Fairmaire (1888) were synonymized with *Blosyrus* by Emden & Emden (1939).

Marshall (1916) included it under the group *Blosyrides* of the subfamily Brachyderinae under the division Adelognathi. Emden (1944) categorized it under the tribe Blosyrini of the subfamily Brachyderinae. But, Thompson

(1992) demoted Brachyderinae to a tribe of Entiminae and Alonso-Zarazaga & Lyal (1999) categorized it under the tribe Blosyrini. Thus, *Blosyrus* is now under the tribe Blosyrini of the subfamily Entiminae of Curculionidae. As on date, 101 species of *Blosyrus* are known globally, of which eight are known from India.

Analyses of the fauna described during the different periods indicate that most of the species were described between 1807 to 1984. More than half of the species were described during 1907 to 1958. Except for a few isolated descriptions, no comprehensive studies have been undertaken during recent times.

A scrutiny of current valid species of *Blosyrus* indicates that Haff (1958) described 26 species including 10 subspecies from Ethiopian and Madagascar regions. Hustache described 16 species including two infraspecific groups. Marshall described 15 species in total, out of which two are from India. Faust (five species), Voss, Quedenfeldt, Fairmaire (four species each), Boheman, Ancy (three species each), Aurivillius, Olivier, Fahraeus, Jekel, Petri, Peringuey and Kolbe (two species each), Harold, Gerstaecker, Hartmann, Herbst, Sharp and Duvivier (one species each) were the other contributors.

The distribution pattern of the species indicates that *Blosyrus* diversified only in the Sub-Saharan Africa and Asia regions. Out of 101 species, 92 occur in Sub-Saharan Africa. Congo is the single largest country representing 23 species followed by Tanzania with nine species and Angola and India with eight species each. The Indian species are recorded mainly from the states



ISSN
Online 0974–7907
Print 0974–7893

OPEN ACCESS

DOI: <http://dx.doi.org/10.11609/JoTT.o3494.4682-6> | ZooBank: urn:lsid:zoobank.org:pub:441628DB-A3F2-4329-815F-F677706C7BB2

Editor: R.M. Sharma (Retd.), Pune, India.

Date of publication: 26 August 2013 (online & print)

Manuscript details: Ms # o3494 | Received 22 January 2013 | Final received 13 June 2013 | Finally accepted 24 July 2013

Citation: G. Mahendiran & V.V. Ramamurthy (2013). A checklist of the genus *Blosyrus* Schoenherr (Coleoptera: Curculionidae: Entiminae) of the world. *Journal of Threatened Taxa* 5(12): 4682–4686; <http://dx.doi.org/10.11609/JoTT.o3494.4682-6>

Copyright: © Mahendiran & Ramamurthy 2013. Creative Commons Attribution 3.0 Unported License. JoTT allows unrestricted use of this article in any medium, reproduction and distribution by providing adequate credit to the authors and the source of publication.

Funding: Indian Agricultural Research Institute (IARI senior research fellowship)

Competing Interest: Authors declare no competing interest.

Acknowledgements: The first author gratefully acknowledges the Indian Agricultural Research Institute for awarding senior research fellowship for study purpose.



of West Bengal, Assam, Maharashtra, Andhra Pradesh, Karnataka and Tamil Nadu.

While a great deal of taxonomic work is needed, a review of exiting literature is necessary to facilitate future studies on the genus. The checklist includes 101 species under the genus *Blosyrus* (Table 1). All currently accepted species epithets are annotated with taxonomic references, notes on published distribution and species group synonyms. And the synonyms are listed under their respective alphabetical order.

Checklist

Blosyrus Schoenherr, 1826: 99; Marshall, 1916: 31

Blosyridius Fairmaire, 1891: 298; Emden & Emden, 1939: 210

Blosyrinus Jekel, 1875: 149; Marshall, 1916: 31

Maes Fairmaire, 1888: 28; Emden & Emden, 1939: 210

Type species: *Curculio oniscus* Olivier, 1807: 355.

REFERENCES

- Alonso-Zarazaga, M.A. & C.H.C. Lyal. (1999). *A world catalogue of families and genera of Curculionoidea (Insecta: Coleoptera) (excepting Scolytidae and Platypodidae)*. Entomopraxis, S.C.P., Spain, 315pp.
- Ancey, C.F. (1881). Descriptions des Coleopteres nouveaux. *Le Naturaliste* 1(3): 485–486.
- Ancey, C.F. (1882). Contributions a la Faune de l'Afrique Orientale. Descriptions de coléoptères nouveaux. *Le Naturaliste* 2 (4): 54–55.
- Aurivillius, C. (1912). Collections recueillis par M. Maurice de Rothschild en Abyssinie et dans l'Afrique Orientale. *Bulletin du Museum National d'Histoire Naturelle* 18(6): 351–368.
- Boheman, C.H. (1859). Coleoptera. In: *Kongliga Svenska Fregatten Eugenie's Resa Omkring jorden under befall af C.A. Virgin Ahren 1851–1853. Vetenska-pliga iakttagelser pa H.M. Konung Oscar Den Forstes befallning*. K. Svenska Vetenskaps Akademien Stockholm. P.A. Norstedt and Soner, 1858–68, 617pp+IXpls.
- Brancsik, K. (1893). Beitrage zur Kenntniss Nossibes und dessen Fauna nach Sendungen und Mittheilungen des Herrn P. Frey. II. *Jahresheft des Naturwissenschaftlichen Vereines des Trencsener Comttates* [1892–3] 15–16: 202–258.
- Chevrolat, L.A.A. (1882). Diagnoses de Coleopteres des iles Adaman. *Le Naturaliste* 2(12): 93–94.
- Duvivier, A. (1892). Melanges entomologiques. XI. Diagnoses de Coleopteres nouveaux du Congo. *Annales de la Societe Entomologique de Belgique* 3: 163–167.
- Emden, F. van & van F. Emden (1939). Curculionidae: Brachyderinae III. In: Schenkling, S. (ed.). *Coleopterorum Catalogus auspiciis et auxilio W. Junk*, 164: 197–327, 1–59 [Index brachyderinarum].
- Emden, F.I. van. (1944). A key to the genera of Brachyderinae of the world. *Annals and Magazine of Natural History* (11)11: 503–532, 559–586.
- Fahraeus, O.I. (1871). Coleoptera Caffrariae, annis 1838–1845 a J.A. Wahlberg collecta. Curculionides. *Ofversigt af Kongliga Vetenskaps-Akademiens Forhandlingar, Stockholm* 28(1): 3–69.
- Fairmaire, L. (1871). Notes sur les Coleopteres recueillis par Charles Coquerel a Madagascar et sur les cotes d'Afrique 3e partie. *Annales de la Societe entomologique de France* (5) 1(1/2): 29–78.
- Fairmaire, L. (1880). Description de quelques Coleopteres de Nossi-Be. *Annales de la Societe entomologique de France* 5(5): 321–340.

Table 1. A global checklist of species under the genus *Blosyrus*

1	<i>abyssinicus</i> Aurivillius, 1912: 352	Africa
	<i>adustus</i> Haaf see <i>similis</i>	
2	<i>aequalis</i> Harold, 1879: 143	Angola, Central Africa
3	<i>alticola</i> Hustache, 1938: 64	Angola
4	<i>angolanus</i> Voss, 1968: 25	Angola
5	<i>angulatus</i> Gerstaecker, 1871: 68	Kenya
6	<i>arcanus</i> Haaf, 1958: 974	Tanzania
7	<i>asellus</i> (Olivier, 1807) <i>Curculio asellus</i> Olivier, 1807: 356 <i>Blosyrus asellus</i> Olivier, 1807: 356; Schoenherr, 1833: 552 <i>Blosyrus philippinensis</i> Jekel, 1875: 153; Marshall, 1916: 33 <i>Blosyrus superciliosus</i> Chevrolat, 1882: 93; Marshall, 1916: 33	India, Cambodia, Indonesia, Malaysia, Philippines
8	<i>aspericollis</i> Hustache, 1937: 185	Congo
9	<i>axillaris</i> Marshall, 1955: 243	Rwanda, Uganda
10	<i>basilicus</i> Haaf, 1958: 994	South Africa
11	<i>batatae</i> Marshall, 1927: 199	South Africa
12	<i>bengalensis</i> Marshall, 1916: 36	India
13	<i>bufo</i> Fahraeus, 1871: 8	South Africa
14	<i>caesicollis</i> Quedenfeldt, 1888: 272	Central Africa
15	<i>callosicollis</i> Quedenfeldt, 1888: 273	Central Africa
16	<i>camerunensis</i> Hustache, 1931: 56	West Africa
	<i>carinatus</i> Boheman in Schoenherr see <i>saevus</i> subsp. <i>carinatus</i>	
17	<i>caudatus</i> Haaf, 1958: 1008	Zambia
	<i>chinensis</i> Boheman see <i>herthus</i>	
18	<i>cinctus</i> Haaf, 1958: 983	South Africa
19	<i>cingulatus</i> Voss, 1962: 203	Congo
	<i>costatus</i> Redtenbacher in Kollar and Redtenbacher, 1848: 540 to <i>Blosyrodes</i> : Marshall, 1916: 40	
20	<i>decoratus</i> Haaf, 1958: 953	Tanzania
	<i>depressus</i> Faust, 1886: 129 to <i>Blosyrodes</i> : Marshall, 1916: 40	
21	<i>distinctus</i> Haaf, 1958: 972	Tanzania
22	<i>dorsalis</i> Jekel, 1875: 151	Gabon
23	<i>electus</i> Faust, 1899: 388	Congo
24	<i>elegans</i> Petri, 1920: 87	East Africa
25	<i>elegantulus</i> Hustache, 1938: 65	Angola
26	<i>estriatus</i> Haaf, 1958: 1012	Congo
27	<i>extrusus</i> Hustache (1923) <i>Blosyrus transversicollis</i> Hustache, 1923: 155; Haaf, 1958: 1022	Congo, China
28	<i>faber</i> Haaf, 1958: 1020	Congo
28a	<i>faber</i> subsp. <i>sellatus</i> Haaf, 1958: 1022	Congo
29	<i>falcatus</i> Faust, 1882: 262	China
30	<i>fasciculatus</i> Jekel, 1875: 155	Africa
31	<i>fasciculosus</i> Perringuey, 1888: 145	South Africa
31a	<i>fasciculosus</i> subsp. <i>impedens</i> Haaf, 1958: 1003	Mozambique
32	<i>globulipennis</i> Fairmaire, 1871: 45	Comoros, France
33	<i>gressorius</i> Haaf, 1958: 1023	Mozambique

	<i>griseoviridis</i> Hustache see <i>vestitus</i> subsp. <i>griseoviridis</i>	
34	<i>haafi</i> Voss, 1962: 207	Congo
35	<i>haroldi</i> Hartmann, 1904: 369	Tanzania
36	<i>herthus</i> (Herbst, 1797) <i>Curculio herthus</i> Herbst, 1797: 98; Schoenherr, 1840: 907 <i>Blosyrus chinensis</i> Boheman, 1859: 120; Jekel, 1875: 147, 148	India, Myanmar, Cambodia, Malaysia, China
	<i>hirtulus</i> Haaf see <i>obliquatus</i> subsp. <i>hirtulus</i>	
37	<i>hovanus</i> Haaf, 1958: 1004	Tanzania
38	<i>humeralis</i> Hustache, 1937: 183	Congo
39	<i>hystrix</i> Boheman in Schoenherr, 1833: 553	India
40	<i>impedens</i> Marshall, 1935: 1	East Africa,
	<i>impedens</i> Haaf see <i>fasciculosus</i> subsp. <i>impedens</i>	
41	<i>inaequalis</i> Boheman in Schoenherr, 1845: 402 <i>Blosyrus tuberculatus</i> Redtenbacher, 1868: 145; Marshall, 1916: 35 <i>Blosyrinus inaequalis</i> Jekel, 1875: 149; Marshall, 1916: 31	India, Sri Lanka, Indonesia
	<i>impar</i> Haaf see <i>scopulifera</i> subsp. <i>impar</i>	
42	<i>incisus</i> Faust, 1899: 388	Congo
43	<i>inflatus</i> Hustache, 1939a: 5	Congo
	<i>interpositus</i> Haaf see <i>obliquatus</i> subsp. <i>interpositus</i>	
44	<i>ipomoeae</i> Marshall, 1937: 467	Zimbabwe
45	<i>japonicus</i> Sharp, 1896: 88	Japan
46	<i>jucundus</i> Haaf, 1958: 1026	Angola
47	<i>lentulus</i> Kolbe, 1883: 30	West Africa
48	<i>liratus</i> Marshall, 1939a: 289	Congo, Zambia
49	<i>litoralis</i> Marshall, 1950: 147	Kenya
50	<i>lotus</i> Haaf, 1958: 948	Congo
51	<i>luctuosus</i> Voss, 1962: 205	Congo
51a	<i>luctuosus</i> subsp. <i>semifasciatus</i> Voss, 1962: 206	Congo
52	<i>macropus</i> Haaf, 1958: 1013	Zambia
53	<i>manicanus</i> Marshall, 1935: 3	Zambia Zimbabwe, East Africa
54	<i>milis</i> Hustache, 1937: 184	Congo
55	<i>mirandus</i> Haaf, 1958: 1016	Congo
56	<i>morio</i> Haaf, 1958: 1040	Angola
57	<i>mozambicus</i> Marshall, 1935: 4	East Africa
58	<i>multituberculatus</i> Hustache, 1923: 154	Congo
59	<i>murinus</i> Ancey, 1881: 485	East Africa
60	<i>nigellus</i> Haaf, 1958: 976	Tanzania
	<i>nossibianus</i> Fairmaire see <i>trux</i>	
	<i>nubifer</i> Haaf see <i>pictus</i> subsp. <i>nubifer</i>	
61	<i>nudoguttatus</i> Marshall, 1939b: 563	East Africa
62	<i>obesus</i> Haaf, 1958: 985	South Africa
63	<i>obliquatus</i> Duvivier, 1892: 164	Congo
63a	<i>obliquatus</i> subsp. <i>hirtulus</i> Hustache, 1934: 243	Congo
63b	<i>obliquatus</i> subsp. <i>interpositus</i> Haaf, 1958: 970	Tanzania, Kenya

	<i>olivieri</i> Faust see <i>oniscus</i> subsp. <i>olivieri</i>	
64	<i>oniscus</i> (Olivier, 1807) <i>Curculio oniscus</i> Olivier, 1807: 355; Boheman in Schoenherr, 1833: 552	India, Myanmar
64a	<i>oniscus</i> subsp. <i>olivieri</i> Faust, 1895: 170	Myanmar
65	<i>ornatus</i> Faust, 1897: 338	Myanmar
66	<i>ovatus</i> Quedenfeldt, 1888: 273	Central Africa
	<i>parvus</i> Haaf see <i>scopulifera</i> subsp. <i>parvus</i>	
67	<i>perrieri</i> Fairmaire, 1902: 352	Madagascar
	<i>philippinensis</i> Jekel see <i>asellus</i>	
68	<i>pictus</i> Haaf, 1958: 948	Congo
68a	<i>pictus</i> subsp. <i>nubifer</i> Haaf, 1958: 951	Congo
68b	<i>pictus</i> subsp. <i>variabilis</i> Haaf, 1958: 952	Congo
69	<i>pilosellus</i> Hustache, 1931: 56	West Africa
70	<i>planifrons</i> Marshall, 1958: 113	Angola
71	<i>posticus</i> Haaf, 1958: 996	Tanzania
72	<i>pretiosus</i> Haaf, 1958: 1029	Zambia
73	<i>priscus</i> Haaf, 1958: 1013	Congo
74	<i>pudibundus</i> Haaf, 1958: 1018	Tanzania
75	<i>rugulosus</i> Aurivillius, 1907: 382	Africa
75a	<i>rugulosus</i> subsp. <i>stephani</i> Haaf, 1958: 970	Tanzania
76	<i>saevus</i> Boheman in Schoenherr, 1840: 907	Cambodia
76a	<i>saevus</i> subsp. <i>carinatus</i> Boheman in Schoenherr, 1845: 401	Mozambique East Africa
77	<i>scopulifera</i> Ancey, 1881: 485	East Africa
77a	<i>scopulifera</i> subsp. <i>impar</i> Haaf, 1958: 959	Ethiopia, Madagascar
77b	<i>scopulifera</i> subsp. <i>parvus</i> Haaf, 1958: 958	Ethiopia, Madagascar
78	<i>sculpticollis</i> Fairmaire, 1891: 298	East Africa
	<i>sellatus</i> Haaf see <i>faber</i> subsp. <i>sellatus</i>	
	<i>semifasciatus</i> Voss see <i>luctuosus</i> subsp. <i>semifasciatus</i>	
79	<i>semitidus</i> Marshall, 1909: 227	Uganda
80	<i>serietuberculatus</i> Hustache, 1923: 156	Congo
81	<i>setifer</i> Kolbe, 1883: 30	West Africa
82	<i>severus</i> Haaf, 1958: 1014	Congo
83	<i>signaticollis</i> Quedenfeldt, 1888: 274	Central Africa
84	<i>similis</i> Hustache, 1937: 164	Congo
84a	<i>similis</i> subsp. <i>adustus</i> Haaf, 1958: 1040	Congo
85	<i>simplex</i> Hustache, 1934: 242	Congo
86	<i>simplicifrons</i> Marshall, 1935: 81	East Africa
87	<i>speciosus</i> Haaf, 1958: 1027	Zambia
88	<i>spongifer</i> Boheman (1845) <i>Blosyrus inaequalis</i> var. <i>spongifer</i> Boheman in Schoenherr, 1845: 403	India
	<i>stephani</i> Haaf see <i>rugulosus</i> subsp. <i>stephani</i>	
89	<i>striatulus</i> Hustache, 1923: 154	Congo
90	<i>sulcicollis</i> Hustache, 1937: 184	Congo
	<i>superciliosus</i> Chevrolat see <i>asellus</i>	
91	<i>tibialis</i> Marshall, 1939b: 561	East Africa

	<i>transversicollis</i> Hustache see <i>extrusus</i>	
92	<i>trifornatus</i> Haaf, 1958: 1042	South West Africa
93	<i>trisolcatus</i> Petri, 1920: 88	Togo
94	<i>trivialis</i> Faust, 1885: 162	Kazakhstan
95	<i>trux</i> Fahraeus in Schoenherr, 1840: 908 <i>Blosyrus nossibianus</i> Fairmaire, 1880: 316; Brancsik, 1893: 229	Comoros, Madagascar
	<i>tuberculatus</i> Redtenbacher see <i>inaequalis</i>	
96	<i>tuberculipennis</i> Peringuey, 1888: 144	South Africa
97	<i>unisolcatus</i> Marshall, 1916: 38	India
	<i>variabilis</i> Haaf see <i>pictus</i> var. <i>variabilis</i>	
98	<i>ventricosus</i> Ancy, 1882: 54	East Africa
99	<i>vestitus</i> (Fairmaire, 1891) <i>Blosyridius vestitus</i> Fairmaire, 1891: 299; Emden and Emden, 1939: 214	East Africa
99a	<i>vestitus</i> subsp. <i>griseoviridis</i> Hustache, 1934: 243	Congo
100	<i>viduatus</i> Haaf, 1958: 1008	Tanzania
101	<i>zavattarii</i> Hustache, 1939b: 618	Ethiopia

Fairmaire, L. (1888). Coleopteres de l'interieur de la Chine (suite). *Annales de la Societe Entomologique de Belgique* 32: 7–46.

Fairmaire, L. (1891). Coleopteres de l'Afrique orientale. *Annales de la Societe entomologique de Belgique*, Bull. 35: 279–307.

Fairmaire, L. (1902). Materiaux pour la Fauna coleopterique de la region malgache. 12e Note. *Annales de la Societe entomologique de France* 71: 325–388.

Faust, J. (1882). Russelkafer aus dem Amurgebiet. *Deutsche Entomologische Zeitschrift* 26: 257–295.

Faust, J. (1885). Neue asiatische Russelkafer (aus Turkestan) III. (Coleopteran). *Deutsche Entomologische Zeitschrift* 29(1): 161–190.

Faust, J. (1886). Verzeichniss auf einer Reise nach Kashgar gesammelter Curculioniden. *Stettiner Entomologische Zeitung* 47(4–6): 129–157.

Faust, J. (1897). Beschreibung neuer Coleopteran von Vorder und Hinterindien aus der Sammlung des Hrn. Andrewes in London. *Deutsche Entomologische Zeitschrift* 2: 337–388.

Faust, J. (1899). Curculioniden aus dem Congo-Gebiet in der Sammlung des Brusseler Koniglichen Museums. *Annales de la Societe Entomologique de Belgique* 43: 388–436.

Faust, J. (1895). Viaggio di Leonardo Fea in Birmania e regioni vicine. LX. Curculionidae. *Annali del Museo Civico di Storia Naturale di Genova* 34: 153–370.

Gerstaecker, A. (1871). Beitrag zur Insektenfauna von Zanzibar. III. Coleoptera. *Archiv fur Naturgeschichte* 37(1): 42–86.

Haaf, E. (1958). Über die Systematik, Verbreitung und Schädlichkeit der *Blosyrus* Arten der aethiopischen und Madagassischen region (Coleoptera: Curculionidae). *Entomologische Arbeiten aus dem Museum G. Frey* 9(3): 936–1067.

Harold, E.V. (1879). Bericht über die von A.V. Homeyer und Pogge in Angola und im Lunda-Reiche gesammelten Coleopteren. *Coleopterologische Hefte* 16: 1–224.

Hartmann, F. (1904). Neue Russelkafer aus Ostafrika. *Deutsche Entomologische Zeitschrift* (2): 369–419.

Herbst, J.F.W. (1797). Natursystem aller bekannten in und ausländischen Insekten, al seine Fortsetzung der von Buffonschen Naturgeschichtliche. *Der Kafer*. Vol. 7. Berlin, Pauli, xi +346 pp.

Hustache, A. (1923). Curculionides nouveaux du Congo. *Revue Zoologique Africanine* 11(2): 148–181.

Hustache, A. (1931). Curculionides nouveaux de l' Afrique Equatoriale (le partie). *Sbornik entomologickeho oddeleni narodniho Musea v Praze* 9: 11–83.

Hustache, A. (1934). Une nouvelle serie de Curculionides du Congo Belge. *Revue de Zoologie et de Botanique Africaines* 25(2): 241–289.

Hustache, A. (1937). Curculionides du Congo. *Revue de Zoologie et de Botanique Africaines* 30: 181–260.

Hustache, A. (1938). Curculionides rapports de l' Angola par la Mission scientifique Suisse. *Bulletin de la societe neuchateloise des sciences naturelles* 62(1937): 63–83.

Hustache, A. (1939a). Curculionidae. *Exploration du Parc National Albert, Mission G.F. de Witte* (1933–1935) 28: 1–50.

Hustache, A. (1939b). Coleoptera, Curculionidae. *Missione Biologica nel Paese dei Borana* 2(1): 617–640.

Jekel, H. (1875). *Coleopteran Jekeliana adjecta Eleutheratorum Bibliotheca Enumeration systematique & synonymique des Coleopteres europeens & exotiques composant la collection de Henri Jekel. Observation critiques. Descriptions d'Espèces nouvelles. Reproduction et traduction de genres et espèces publiés dans des Ouvrages rares Français et Etrangers de maniere a former insensiblement la Biolibothèque du Coleopteriste*. Livraison 2. Autographie Typomorphe de l'Auteur, Paris, 101–196pp.

Kolbe, H.J. (1883). Neue Coleoptera von Westafrika. *Berliner Entomologische Zeitschrift* 27(1): 15–36.

Marshall, G.A.K. (1909). Ruwenzori expedition reports 14, Coleoptera Part. 4. *Transactions of the Zoological Society* 19: 227–232.

Marshall, G.A.K. (1916). Coleoptera. Rhynchophora: Curculionidae. In: Shiple, A.E. (ed.), *The Fauna of British India including Ceylon and Burma*. Taylor and Francis, London, xv+367pp.

Marshall, G.A.K. (1927). New injurious Curculionidae (Coleoptera). *Bulletin of Entomological Research* 17(3): 199–218.

Marshall, G.A.K. (1935). Contribution a l'etude de la faune du Mozambique. Voyage de M.P. Lesne (1928–1929). 21. Coleoptera: Curculionidae. *Memorias e Estudos do Museo Zoologico da Universidade de Coimbra* 81(1): 1–53.

Marshall, G.A.K. (1937). New injurious Curculionidae (Coleoptera). *Bulletin of Entomological Research* 28(3): 467–477.

Marshall, G.A.K. (1939a). Curculionidae (Coleoptera) collected in Northern Rhodesia by Professor L. Cipriani, *Redia Florence* 25: 289–302.

Marshall, G.A.K. (1939b). New tropical African Curculionidae (Coleoptera). *Annals and Magazine of Natural History* 11(3): 561–583.

Marshall, G.A.K. (1950). New East African Curculionidae (Coleoptera). *Journal of the East Africa Natural History Society* 19(5)(1947-48): 145–153.

Marshall, G.A.K. (1955). Contributions a l'etude de la faune entomologique de Ruanda-Urundi (Mission P. Basilewsky 1953), LXVI. Coleoptera, Curculionidae. *Annales du Museum du Congo. Belge (ser. 8), Zoologie* 40: 240–295.

Marshall, G.A.K. (1958). On the Curculionidae (Coleoptera) of Angola. III. *Publicacoes Culturais da Companhia de Diamantes de Angola* 38: 111–153.

Oberprieler, R.G., A.E. Marvaldi & R.S. Anderson (2007). Weevils, Weevils everywhere, pp. 491–520 In: Zhang, Z.Q. & W.A. Shear (eds.). *Linnaeus Tercentenary: Progress in invertebrate taxonomy, Zootaxa* 1668: 1–766.

Olivier, A.G. (1807). *Entomologie, ou Histoire Naturelle des insectes, avec leurs caracteres generiques et specifiques, leur description, leur synonymie, et leur figure enluminee*. Coleopteres, Vol. 5. Paris, Desray, 612pp.

Peringuey, L. (1888). Second contribution to the South African Coleopteran fauna. *Transactions of the South African Philosophical Society* 4(2): 67–190; <http://dx.doi.org/10.1080/21560382.1884.9526202>

Petri, K. (1920). Revision der Curculioniden Gattung *Gasteroclisus* Desbrochers. *Verhandlungen und Mitteilungen der Siebenburgischer Verein für Naturwissenschaften* 68: 87–88.

Quedenfeldt, G. (1888). Verzeichniss der von Herrn Major a. D. von Mechow in Angola und am Quango-strom 1878–1881 gesammelten Curculioniden und Brenthiden. *Berliner Entomologische Zeitschrift*

- 32(2): 271–308.
- Kollar, V & L. Redtenbacher. (1848).** Aufzählung und Beschreibung der von Freiherrn Carl V. Hugel auf seiner Reise durch Kaschmir und das Himaleeyagebirge gesammelten insecten (Hugel, C.von (ed.)). *Kaschmir und das Reich der Siek* 4(2): 587–865.
- Redtenbacher, L. (1868).** Coleopteran. Reise der Oesterreichischen Fragatte Novara um die Erde, in den Jahren 1857-59, unter den Befehln des Commodore B. von Wullerstorf-Urbair. 1864-1875. *Zoologischer Theil* 1867, 2(1)4: 145–175.
- Schoenherr, C.J. (1826).** *Curculionidum dispositio methodica cum generum characteribus descriptionibus atque observationibus variis seu Prodomus ad Synonymiae Insectorum, partem IV*, Lipsiae. Fleischer, x+338pp.
- Schoenherr, C.J. (1833).** *Genera et species curculionidum, cum synonymia hujus familiae. Species novae aut hactenus minus cognitae, descriptionibus a Dom. Leonardo Gyllenhal. C.H. Boheman, et entomologis aliis illustratae* 1(2): 383–681.
- Schoenherr, C.J. (1840).** *Genera et species curculionidum, cum synonymia hujus familiae. Species novae aut hactenus minus cognitae, descriptionibus a Dom. Leonardo Gyllenhal. C.H. Boheman, et entomologis aliis illustratae* 1(2): 465–970.
- Schoenherr, C.J. (1845).** *Genera et species cuculionidum, cum synonymia hujus familiae. Species novae aut hactenus minus cognitae, descriptionibus a Dom. Leonardo Gyllenhal, C. H. Boheman, et entomologis aliis illustratae* 8(2): 1–504.
- Sharp, D. (1896).** The Rhynchophorous Coleoptera of Japan. Part IV. Otirrhynchidae and Sitonides and a genus of doubtful position from the Kurile Islands. *Transactions of the Entomological Society of London* 1: 81–115.
- Thompson, R.T. (1992).** Observations on the morphology and classification of weevils (Coleopteran: Curculionidae) with a key to major groups. *Journal of Natural History* 26(4): 835–891; <http://dx.doi.org/10.1080/00222939200770511>
- Voss, E. (1962).** Atteblabidae, Apionidae, Curculionidae (Coleoptera: Rhynchophora). *Exploration du Parc National de l'Upemba. Mission G.F.de Witte* 44: 1–380.
- Voss, E. (1968).** Beschreibung einer athiopischen und zweier Orientalischer Curculioniden (Coleoptera: Curculionidae). *Entomologische Mitteilungen aus dem Zoologischen Museum, Hamburg* 3(60): 25–28.
- Yunakov, N.N & K.S. Nadein (2006).** New taxa of geophilic Entiminae (Coleoptera: Curculionidae) from the Balkan Peninsula, Caucasus and Central Asia. *Entomologishce Abhandlungen* 63(1–2): 77–98.

