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Catalogue of Indian Insects

FIELD MUSEUM
OF
NATURAL HISTORY

JUN 14 1967

PART 5—Nitidulidae

BY

S. N. CHATTERJEE,
F.E.S.,

*Lower Grade Assistant, Entomological Branch,
Forest Research Institute, Dehra Dun.*



Issued under the authority of the Government of India.

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P R E F A C E .

THE Nitidulidae are generally of scavenging habits, but some live in flowers, in stored products, and in bees' nests, while others are predaceous on Scolytids and Coccids. There are in all 228 species up to the present recorded from India.

The family has been split up into six sub-families on the characters given below :—

The table is adapted from Grouvelle's paper in *Annales de la Société Entomologique de France*, Vol. LXXVII, 1908, 325 and 326 ; and from Reitter's *Fauna Germanica*, Vol. III, 11.

1	{	Maxilla with two lobes ; prosternal process absent	Cateritinæ.
		Maxilla with one lobe ; prosternal process almost always present	2
2	{	At least 2 segments of abdomen exposed	Carpophilinæ.
		At most pygidium exposed	3
3	{	Tarsi 4-jointed	Cybocephalinæ.
		Tarsi 5-jointed	4
4	{	Labrum clearly distinct from epistome	5
		Labrum soldered with epistome	Cryptarchinæ.
5	{	Middle and posterior tibiæ with single outer margin, dorsally without carina ; all tibiæ wide, their outer angles rounded off, or obliquely truncate ; the fore tibiæ notched or toothed	Meligethinæ.
		Middle and posterior tibiæ with double outer margin, the upper one directed dorsally ; all tibiæ truncate at end or with outer angle drawn into a tooth	Nitidulinæ.

To avoid repetition the following abbreviations are used in quoting references to literature :—

- A. J. Annulosa Javanica, *London*, 1825.
- A. M. G. Annali del Museo Civico di Storia Naturale di Genova, *Genoa*.
- A. M. N. H. Annales and Magazine of Natural History, *London*.
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Bruxelles.
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Paris.
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John L. Leconte, *Washington*, 1861.
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Paris.
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34.
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1792.
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1911.
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- G. C. Genera des Coléoptères, Lacordaire, Vol. II, *Paris*,
[1854 (1855)].
- G. Z. Germar Zeitschrift [Zeitschrift für die Entomol-
gie], Vols. IV-V. *Leipzig*, 1843-44.

- I. B. E. . . . Illustrations of British Entomology, J. F. Stephens, *London*, 4 Vols., 1828-35.
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- N. L. M. . . . Notes from the Leyden Museum, *Leyden*.
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- Z. A. E. . . . Zeitschrift für Angewandte Entomologie, *Berlin*.
- Z. M. . . . Zoologisches Magazin, *Kiel*.

Keys to genera will be found in references quoted under each subfamily and the species under each genus.

Habits and bionomics of the species occurring in India are given under biology under each species and under genera when they are represented by Indian species.

DERA DUN,

The 11th September 1924.

S. N. CHATTERJEE.

Catalogue of Indian Insects.

PART 5.

NITIDULIDÆ.

Nitidularia propria Latreille (1807), Gen. Crust. Ins. II, 10-19 (pars.).

Nitidularia Murray (1864), M. N. 211-414.

Nitidulidæ Ganglb. (1899), K. M. 411 & 442-

565 [key to tribes]—Grouv. (1908),

C. R. I. 329-397 [key to tribes]—

Reitter (1911), F. G. K. 10-41 [key to tribes].

BIOLOGY : Erichson (1845), Naturg. Ins. Deutschl. III, 124—Rupertsberger (1880), Biol. Käf. Eur. 127-130—Thomson (1862), S. C. IV. 137—Rey [1886 (87)], Essai d'études sur certaines larves de Col. Ann. Soc. Linn. Lyon, XXXIII, 173-174; sep. ed. André, Beaune 43 & 44—Ganglb. (1899), K. M. 445—Reitter (1911), F. G. K. 10—Peyerimhoff (1921), B. S. E. F., 284—Verhoeff (1923), A. N. 2-109, pl. I-III & VII.

CATALOGUES : Schönherr (1808), Synon. Ins. I, 2, 135-150—Gemminger & Harold (1868), C. C. III, 802-838—Grouv. (1913), Col. Cat. Junk. Pars. 56.

I. CATERETINÆ.

Cateretes Erichson (1843), G. Z. IV, 226-227.

Brachyptérides Lacord. [1854 (1855)], G. C. 290 & 291 [key to tribes and genera].

- Brachypteridæ* Murr. (1864), M. N. 230-231
[key to tribes and genera].
Cateretini Ganglb. (1899), K. M. 447 & 448
[key to genera]—Grouv. (1908), C. R. I.
325—Reitter (1911), F. G. K. 11-12
[key to genera].
BIOLOGY: Verhoeff (1923), A. N. I. 8-11,
18-22, 66-72.

Heterhelus Jacq. du Val.

- Jacq. du Val. (1858), (Subg. *Cercus*) Gen.
Col. d'Eur. II 137—Murr. (1864),
(Subg. *Cercus*) M. N. 23 & 239—
Ganglb. (1899), K. M. 448 & 451.
Amartus Reitt. (1875), Eur. Nitid. 2 (pars).
Cateretes Heer (1841), F. H. I, 410 (pars).
kraatzi Grouv. (1903), A. S. E. F. LXXII, Darjiling¹
108¹.

II. MELIGETHINÆ.

- Meligithina* Thoms. (1859), S. C. I, 67—
(1862), IV, 151—(1867), IX, 368.
Meligethini Seidl. (1872), Fn. Balt. ed. I, 49—
Reitt (1911), F. G. K. 11 & 15 [key
to genera].

2. Pria Steph.

- Steph. (1830), I. B. E. III. 30-49—Lacord.
[1854 (1855)], G. C. 301 & 312—
Ganglb. (1899), K. M. 464 & 535—
Grouv. (1908), C. R. I. 340 & 367
[key to species].
Cormyphora Cast. (1840), Hist. Nat. Col.
II, 12.
Laria Scop. (1763), Entom. Carn. 21 (pars).
apicalis Grouv. (1894), A. S. E. B. XXXVIII, Kurseong¹
582¹—(1908), C. R. I. 367.
ceylonica Grouv. (1902), A. S. E. F. LXXI, Ceylon¹
481¹—(1908), C. R. I. 367.

- diluticollis** Grouv. (1913), R. I. M. VII, 2, North-East Assam¹
102¹.
- indica** Grouv. (1894), A. S. E. B. XXXVIII, Kurseong¹]
581¹—(1908), C. R. I. 366 & 367². Pegu²
Sumatra²
- latipes** Grouv. (1908), C. R. I. 366 & 367¹, Nilgiris¹
t. 6. f. 7.
- mirmidon** Grouv. (1913), R. I. M. VIII, 2, Dibrugarh¹
101.¹
- pallida** F. (*Nitidula*) (1801), S. E. I, Ceylon¹
349—Ol. (*Nitidula*) (1811), Encycl.
méth. VIII, 216—Motsch. (1858),
E. E. VII, 131—Reitt. (1873),
S. E. N. 59 [note]—Grouv. (1908),
C. R. I. 365¹ & 367 [footnote].
- plagiata** Grouv. A. S. E. B., XXXIII, 582¹ Kurseong¹
—(1908), C. R. I. 367.

3. *Meligethes* Steph.

- Steph. (1830), I. B. E. III, 30 & 45 (pars)—
Lacord. [1854 (1855)], G.C. 301 & 313
—Ganglb. (1899), K. M. 464, 492 &
535 [key to species]—Grouv. (1908),
C. R. I. 340 & 367-377 [key to species].
- Subgen. *Acanthogethes* Reitt. (1911), F. G. K.
16—Ganglb. (1899), K. M. 494.
- Subgen. *Odontogethes* Reitt. (1911), F. G. K.
16—Ganglb. (1899), K. M. 494.
- BIOLOGY.—Omerod (1874), E. M. M. 46-52—
Perris [1875 (1876)], A. S. L. L. 298,
sep. ed. Deyrolle (1867), 40—Kras-
silstchik (1915), Report of Bio-Entom.
Station Bessarabia, 1914, Kishinev,
49 [control]—Lind, Rostrup & Kølpin
Ravn (1915), Oversøgt over Land-
brugsplanternes Sygdomme i 1914,
Beretning fra Statens Forsøgsvirk-
somhed i Plantekultur 31, København
[control]—Kemner (1918), Rapsbaggen
Central—anstalten för Jordbruksför-
sök, 1917, Flygblad, 64, Entom.

Avdelningen, 17, 4, fig. 3 [control]—Hukkinen (1919). Om Rapsbaggen Och dess Avvarjände, Meddelanden till Landtmän No. 58 fran Agrikulture ekonomiska Försöksanstalten Finland, Entom. avdeln. 8 figs. 1-6 [bionomics and control]—Voss (1919), Rapsglanzkäfer und Rapsverborgenrüssler, Schaffnits Flugblattsammlung über Pflanzenschutz, Bonn-Poppelsdorf, Flugblatt 14, April 1919 [control]—Heikertinger (1920), Untersuchungen über die standpflanzen der Blütenkäfergattungen, E. B. XVI, 4-9, 126-143 [bionomics]—Friederichs (1920), Untersuchungen über Rapsglanzkäfer in Mecklenburg, Z. A. E. VII, 1, 1-36, figs. 1-13, plates 1-2 [bionomics & control]—Burkhardt & Lengerken (1920), Z. A. E. VI, 270-295, figs. 1-32 [egg, larva, pupa]. Verhoeff (1923), A. N. 10, 63-64, 68-70, pl. III, figs. 31, 32, 36, 41 & 42.

- andrewesi** Grouv. (1908), C. R. I., 370¹ & 377 Nilgiris¹
arrowi Grouv. *l. c.* 373¹ & 375 (*Acanthogethes*). Nilgiris¹
binotatus Grouv. (1894) A. S. E. B. Chacuba¹
 XXXVIII, 460¹—(1908) C. R. I. 375². Pegu²
braeti Grouv. *l. c.* 583¹—*l. c.* 375. Kurseong¹
cardoni Grouv. *l. c.* 584¹—*l. c.* 376. Barway¹
castanescens Grouv. (1903), A. S. E. F. LXII, 114¹—(1908), C. R. I. 376 Darjiling¹
 (*Odontogethes*).
crassus Grouv. (1908), C. R. I. 369¹ & 377. Nilgiris¹
cribrosus Grouv. *l. c.* 368¹ & 375. Bombay¹
 Nilgiris¹
curvipes Grouv. *l. c.* 373¹ & 374 (*Acanthogethes*). Madura¹
 Nilgiris¹
ferrugineus Reitt. [1872 (1873)], V. N. V. B. Sikkim¹
 51, sep. 3.—Grouv. (1908) C. R. I. 376¹.

- foedus** Grouv. (1908), C. R. I. 370¹ & 377. Nilgiris¹
luminosus Reitt. (1873), S. E. N. 72—Grouv. Ceylon¹
l. c. 376.¹
luteolus Reitt. *l. c.* 75—Grouv. *l. c.* 377.¹ Ceylon¹
melleus Grouv. *l. c.* 371¹ & 376. Pegu¹
mixtus Grouv. *l. c.* 368¹ & 375. Nilgiris¹
?politus Motsch. (1863), B. M. XXXVI, II Ceylon¹
442—Reitt. (1873), S. E. N. 71.¹
rubricollis Grouv. (1903), A. S. E. F. LXXII, Nilgiris¹
125¹—(1908), C. R. I. 375.
rufithorax Grouv. (1894), A. S. E. B. Belgaum¹
XXXVIII, 460¹—(1908), C. R. I. 376.
waterhousei Grouv. (1908), C. R. I. 372¹ & Nilgiris¹
375.

III. CARPOPHILINÆ.

- Carpophilinae* Er. (1843), G. Z. IV, 226 & 233.
Carpophilides Lacord. [1854 (1855)], 290 &
293.
Carpophilini Ganglb. (1899), 447 & 457—
Grouv. (1908), C. R. I. 326—Reitt.
(1911), F. G. K. 11 & 14.
Carpophilidæ Murr. (1864), M. N. 230 & 255—
Reitt. (1873), S. E. N. 7.

4. Brachypeplus Er.

- Erichs. (1843), G. Z. IV 245—Lacord. [1854
(1855)], G. C. 293 & 297—Murr. (1864),
M. N. 257 & 286-309 [key to species]—
Grouv. (1908), C. R. I. 326-328 [key
to species].
Nitidulopsis Wlk. (1858), A. M. N. H.
(3) II, 206—Olliff (1885), P. L. W. X,
70.
Subgen. *Leiopeplus* Murr. (1864), M. N.
287 & 304.
Subgen. *Liparopeplus* Murr. *l. c.* 287 &
306.
Subgen. *Onicotis* Murr. *l. c.* 287 & 288.

Subgen. *Selis* Murr. *l. c.* 287 & 302.

Subgen. *Tasmus* Murr. *l. c.* 287 & 290.

- aequalis** Walk. (*Nitidulopsis*), 1858, Ceylon¹
 A. M. N. H. (3) II, 206¹—Olliff (1885),
 P. L. W. X, 70—Grouv. (1908), C. R. I.
 328.
- birmanicus** Grouv. (1892), A. M. G., XXXII, Burma¹
 834¹.
- dubreuili** Grouv. (1908), C. R. I., 327 & Madura¹
 328¹.
- feai** (*fae*) Grouv. (1892), A. M. G. XXXII, Burma¹
 835.¹
- latus** Murr. (1864) M. N. 301¹ & 309. Singapore¹
 Sarawak¹
- lowei** Murr. *l. c.*, 301¹ & 309. Borneo¹
- notatus** Murr. *l. c.*, 300¹ & 309—Grouv. Ceylon¹
 (1908), C. R. I. 328.
- obesus** Grouv. (1895) B. S. E. F. CCLVIII.¹ East Indies¹
- patruelis** Murr. (1864), *l. c.*, 299¹ & 309. East Indies¹

5. *Cillæus* Laporte.

Laporte, (1835) E. E. 138—Erichs. (1843),
 G. Z. IV 247—Lacord. [1854 (1855)],
 G. C. 293 & 297—Murr. (1864), M. N.
 311—Grouv. (1906), A. S. E. F. LXXXV,
 68—(1908), C. R. I. 327 & 329.

- latus** Grouv. (1908), C. R. I. 329¹. Nilgiris¹
- simoni** Grouv. (1893), A. S. E. F. LXII, 383¹. Ceylon¹

6. *Platynema* Rits.

Ritsema (1885), N. L. M. VII, 29—Grouv.
 (1908), C. R. I. 327.

Orthogramma Murr. (1864), M. N. 318.

- breviceps** Murr., *l. c.*, 323.¹ Nicobars¹
- olliffi** Rits. (1885), N. L. M. VII, 29¹. Andamans¹

7. *Carpophilus* Steph

Steph. (1830), I. B. E. III, 50—Lacord.
 [1854 (1855)], G. C. 293 & 295—Murr.
 (1864), M. N. 341-398 [key to species]
 —Ganglb. (1899), K. M. 458—Grouv.
 (1908), C. R. I. 327 & 330-338 [key
 to species]—Blair (1922), E. M. M.
 LVIII, 3,65 [key to species].

BIOLOGY : Perris, (1853), A. S. E. F. (3) I,
 593, sep. I (1863), 71, t. 18, figs. 69-
 76—Murtfeldt (1903), Ent. News,
 XIV, 293—Steb. (1914), I. F. I. 109—
 Dash. (1916), Rept. Dept. Agric.
 Barbados, 1914-15, 38-44—Rutgers
 (1918), Verslag Van den Directeur
 Van het Algemeen Proefstation der
 A. V. R. O. S., 1-VII-17—30-VI-18, 44
 —Zwaluwenburg (1918), Rept. Porto
 Rico Agric. Expt. Sta. 1917, 31-34—
 Roepke (1918), Entomologische onder-
 zoekingen 1917-18, 13-14 [control]—
 Ghosh (1921), R. P. E. M. 108.

Subgen. *Tribrachys*, Lec. (1861), C. N. A.
 83.

Subgen. *Ecnomorphus* Motsch. (1858),
 E. E. VII, 42—Murr. (1864), M. N.
 385.

Subgen. *Eidocolastus* Murr. *l. c.* 399—
 Grouv. (1908), C. R. I. 327 (note).

Idocolastus Gemm. & Harold (1868),
 C. C. III, 814.

Subgen. *Endomerus* Murr., *l. c.*, 384.

Nitops Murr. *l. c.* 382—Grouv. (1896),
 A. S. E. F. LXV, 178.

Subgen. *Heterodontus* Murr. *l. c.* 342.

Subgen. *Microxanthus* Murr. *l. c.*
 389.

Subgen. *Myothorax* Murr. *l. c.* 372.

Subgen. *Stauroglossicus* Murr. *l. c.* 398—
 Grouv. (1908), C. R. I. 327 [note].

Subgen. *Urophorus* Murr. *l. c.* 342.

- bicolor** Grouv. (1892), A. M. G. XXXII, Burma¹
836¹ & 838—Grouv. (1897), l. c.
XXXVIII, 351 (*Urophorus*).
- bifenestratus** Murr. (1864), M. N. 364¹ & Ceylon¹
396—Grouv. (1908), C. R. I. 330² & Kurseong²
337. Mahe²
- biguttatus** Motsch. (1858), E. E. VII, 43—India¹
Murr. (1864), M. N. 387—Grouv.
(1908), C. R. I. 333¹ & 338 (*Ecnomorphus*).
- cribratus** Murr. l. c. 369¹ & 397. East Indies¹
- cylindricus** Murr. l. c. 382¹ & 397—Grouv. Ceylon¹
(1908), C. R. I. 337 (*Myothorax*).
- dimidiatus** F. (*Nitidula*) (1792), E. S. I, 1, Cosmopolitan.
261—Murr. l. c. 379 & 397—Ganglb.
(1899), K. M. 459 & 460—Grouv.
(1908), C. R. I. 332 & 337.
- BIOLOGY: Morrill (1913), J. E. E. VI, 2, 185-
195—Wimhurst (1920), Ad. Rept.
Agric. Directorate [Mesopotamia],
1919, 39-41—Buxton (1920), B. E. R.
294—Essig (1921), M. B. C. S. X, 4,
140-143, 3 figs.
- auripilosus* Woll. (1854), I. M. 117.
- levisi* Reitt. (1884), N. J., 258 & 300—
Grouv. [1912 (1913)], A. S. E. F.
LXXXI, 388.
- pusillus* Steph. (1830), I. B. E., 51.
var. *contigens* Wlk. (*Nitidula*), (1858),
A. M. N. H. (3) II, 206—Olliff (1885),
P. L. W. X, 69—Grouv. (1908),
C. R. I. 332.
- biguttatus* Gemm. & Harold (1868), C. C.
810.
- dilutus* Murr. (1864), M. N. 373.
- limbalis* Murr. l. c. 373.
- nigritus* Murr. l. c. 373.
- robustus* Murr. l. c. 373.
- testaceus* Murr. l. c. 373.
- vittiger* Murr. l. c. 373—Grouv. (1908),
C. R. I. 332.

- var. *fumatus* Boh. (1851), Ins. Caffr. I, 2,564—Murr. *l. c.* 375 & 397.
- var. *luridus* Murr. *l. c.* 377 & 397.
- var. *mutilatus* Er. (1843), G. Z. IV, 258—Murr. *l. c.* 378 & 397—Grouv. (1908), C. R. I. 322—Steb. (1914), I. F. I. 108.
- hemipterus* F. (*Nitidula*) (1792), E. S. I. 261.
- bimaculatus* Montr. (*Ips*) (1860), A. S. E. F. (3) VIII, 262.
- puberulus* Montr. (*Ips*) *l. c.* 263.
- var. *ochropterus* Klug (1862), Peter's Reise, 209, t. 12, f. 9—Murr. (1864), M. N. 377 & 397—Fairm. (1869), A. S. E. F. (4) IX, 200—Grouv. (1908), C. R. I. 332.
- tempestivus* Jacq. du Val. (non Er.) (1856), Hist. Cuba, Ins. 42, ed. 8°, 1857, 96—Chevr. (1863), A. S. E. F. III, 602.
- dubitabilis** Grouv. (1897), A. M. G. Ceylon¹
XXXVIII, 355¹—Grouv. (1908), Burma²
C. R. I. 336² & 338 (*Stauroglossicus*).
- erythronus** Grouv. (1898), A. S. E. B. Bengal¹
XLII, 110¹—(1908), C. R. I. 338.
- familiaris** Grouv. (1897), A. M. G. Tenasserim¹
XXXVIII, 353¹.
- feai** (*feae*) Grouv. (1890), *l. c.* XXIX, 120—Burma.
(1892), XXXII, 338—(1897),
XXXVIII, 351 (*Urophorus*).
- flavipes** Murr. (1864), M. N. 359¹ & 395—Celebes¹
Grouv. (1908), C. R. I. 337—Steb. Singapore¹
(1914), I. F. I., 109², f. 72 [biol.] Siwaliks²
- fulvipes** Motsch. (1858), E. E. VII 42—Murr. Ceylon¹
l. c. 352¹ & 395—Grouv. (1908),
C. R. I. 338.
- var. *fuscus* Motsch. *l. c.* 42¹.
- funereus** Murr. *l. c.* 358¹ & 396—Grouv. Ceylon¹
l. c. 338.
- hebetatus** Grouv. *l. c.* 334 & 338, t. 6, f. 1. Bengal¹
fulvipes Grouv. (1894), (non Motsch.), Belgaum¹

A. S. E. B. XXXVIII, 578—(1908), Nilgiris
C. R. I. 335¹.

hemipterus L. (*Dermestes*) (1758), S. N. X, Cosmopolitan.

358—(1767), XII, 1, 2, 565—Murr.
(1864), M. N. 362 & 395—Ganglb.
(1899), K. M. 439 & 460—Grouv.
(1908), C. R. I. 337—Blatchley (1910),
Cat. Col. Indiana, 631 & 632, fig.
(*Myothorax*).

BIOLOGY : Perris [1875 (1876)], A. S. L. L.
XXII, 303, f. 33 & 34, sep. ed. Dey-
rolle (1877), 45, f. 33 & 34—French
(1911), Jl. Dept. Agr. Victoria, IX,
640—Steb. (1914), I. F. I. 108, f. 71—
Essig (1915), J. E. E. VII, 396-400, 4
figs. [control]—Morrill (1917), 9th Ann.
Rept. Arizona Commiss. Agric. &
Hortic. 30-VI-17, 15-61—De Ong
(1918), M. B. C. S. VII, 6, 429 [con-
trol]—Gurney (1918), Agric. Gaz.,
N. S. W., XXIX, 9, 641-650, 11 figs.—
Maskew (1919), M. B. C. S. VII, 6,
429-432—Morris (1920), Ann. Trop.
Med. Parasit. XII, 4, 339-342—Essig
(1920), M. B. C. S. IX, 3, 119-125, 5
figs. [control]—Maskew & Strong *l. c.*
12, 721-735—Poutiers (1921), Bull.
Soc. Path. Vég. France, VIII, 1, 45-
46—De Ong (1921), J. E. E. XIV, 5,
444-447 [control].

bimaculatus L. (1767), S. N. ed. XII, 1,
2, 569—Ol. (*Nitidula*) (1790), Ent.
II, 12, p. 4, t. 2, f. 11—Melsh. (*Cercus*)
(1844), II, 105.

brevipennis Germain (1835), Anales Unio.
Chile, 397.

cadaverinus F. (*Nitidula*) (1801), S. E. I.
354.

dimidiatus Heer (*Cateretes*) (1841),
F. H. I, 413.

fuscus F. (*Stenus*) (1801), S. E. 603.

- flexuosus* Herbst. (*Nitidula*) (1790), Käf.
V, 246, t. 54, f. 5.
- pictus* Heer (*Cateretes*) (1841), F. H. 413.
- quadriguttatus* Thunb. (*Nitidula*) (1794),
Ins. Suec. V. 70.
- var. *quadratus* F. (*Nitidula*) (1798),
Suppl. E. S. 74.
- var. *quadrisignatus* Er. (1843), G. Z. 257
—Murr. (1864), M. N. 363 & 396.
- heros** Grouv. (1892), A. M. G. XXXII, 836¹ Burma¹
& 838—(1897), l. c., XXXVIII, 351.
- humeralis** F. (*Nitidula*) (1798), E. S. Suppl. India.
74—Murr. (1864), 343 & 394—Grouv.
(1892), A. M. G. XXXII, 838—(1897), Trop. Africa
XXXVIII, 351—(1908), C. R. I. 330 Madagascar
& 336 (*Urophorus*)—Muir (1918), Seychelles
T. E. S. L. 224, pl. X, f. 7 [genitalia].
- foveicollis* Murr. l. c. 344 & 394—Grouv.
(1892) A. M. G. XXXII, 838—(1897),
XXXVIII, 351—(1908), C. R. I. 330—
Lefroy (1909), Ind. Ins. Life-297
[biol.]—Steb. (1914), I. F. I. 109
[biol.].
- picinus* Boh. (*Brachypterus*) (1851), Ins.
Cafir. I. 2, 560—Murr. (1864), M. N.
343.
- var. *punctatus* Fleut. (1887), A. S. E. F.
(6), VII, 61—Grouv. [1912 (1913)],
l. c., LXXXI, 388.
- lepidus** Murr. (1864), M. N. 399¹ (*Stauro-* East Indies¹
glossicus).
- ligatus** Murr. l. c. 363¹ & 396—Grouv. Ceylon¹
(1908), C. R. I. 337² Burma²
Sumatra²
- marginellus** Motsch. (1858), E. E. VII, 40— India¹
Murr. l. c. 347¹ & 394, t. 33, f. 1— Ceylon¹
Grouv. (1908), C. R. I. 330² & 336. China¹
Madagaskar²
Southern Asia²

- murrayi** Grouv. (1892), A. M. G. XXXII, Burma¹
837—(1908), C. R. I. 333² & 338. Nilgiris²
- obesus** Murr. (1864), M. N. 361¹ & East Indies¹
396.
- oblongopunctatus** Grouv. (1903), A. S. E. F. Darjiling¹
LXXII, 108¹—(1908), C. R. I.
337.
- obsoletus** Er. (1843), G. Z. 259—Murr. Ceylon¹
(1864), M. N. 368¹ & 396—Grouv. East Indies¹
(1908), C. R. I. 336—Steb. (1914),
I. F. I. 109. Siam¹
- cribellatus** Motsch. (1858), E. E. VII,
41.
- funerus** Reitt. (non Murr.) (1884), N. J.
259—Grouv. [1912 (1913)], LXXXI,
388.
- var. *strigipennis* Motsch. *l. c.* 41—Murr.
l. c. 368.
- pilosellus** Motsch. *l. c.* 41—Murr. *l. c.* 380¹ Ceylon¹
& 397—Grouv. (1908), C. R. I. 333 & East Indies¹
337 (*Myothorax*).
Japan¹
Tongking¹
Celebes¹
- plagiatiipennis** Motsch. (*Colastus*) (1858), Ceylon¹
E. E. VII, 39—Murr. *l. c.* 400¹, t. 33, Belgaum²
f. 6—Grouv. *l. c.* 336² & 338 (*Eido-*
colastus).
- dilutus** Motsch. (*Colastus*) *l. c.* 39—Murr.
l. c. 400—Grouv. [1912 (1913)],
A. S. E. F. LXXXI, 388.
- bosschii** (*bosschae*) (1892), N. L. M. XIV,
43.
- pubescens** Murr. *l. c.* 383¹ & 398 (*Endome-* Ceylon¹
rus).
- sericeus** Motsch. (1858), E. E. VII, 41— East Indies¹
Murr. *l. c.* 368¹ & 396—Grouv. (1908), Kurseong²
C. R. I. 331² & 336.
- signatus** Grouv. (1908), C. R. I. 333¹ & 337. Kurseong¹
var. *ornatus* Grouv. *l. c.* 334². Sikki m²

- tectus** Murr. (1864), 359¹ & 396—Grouv. *l. c.* Ceylon²
332² & 336. India²
-
- Borneo¹
Singapore¹
Sarawak¹
- undulatus** Grouv. *l. c.* 331¹ & 336. Siwaliks¹
-
- Java¹

8. **Tetrisus** Murr.

Murr. (1864), M. N. 404—Grouv. (1908),
C. R. I. 327 & 338.

- curvipes** Grouv. *l. c.* 338¹. Nilgiris¹
epuraeoides Grouv. (1892), A. M. G. XXXII, Burma¹
839¹.
hydroporoides Murr. (1864), M. N. 405¹, East Indies¹
t. 35, f. 10.

IV. **NITIDULINÆ.**

- Nitidulina* Er. (1843), G. Z. IV, 226 &
266.
Nitidulides Lacord, [1854 (1855)], G. C., 290
& 300.
Nitidulites Jac. du Val. (1858), Gen. Col.
d'Eur II, 140 & 157.
Nitidulina Thoms. (1859) S. C. I, 67—(1862),
IV, 162—(1867), IX, 370.
Nitidulini Lec. (1861), C. N. A. 82 & 83—
Ganglb. (1899), K. M. 447 & 462 [key
to genera]—Grouv. (1908), C. R. I.
326 & 339 [key to genera]
Nitidulidæ Murr. (1864), M. N. 230.
Nitiduli Mars. (1885), N. R. 19 & 20.
Nitiduliens Lameere (1900), Fn. Belg. 343 &
345.

9. **Ecnomaeus** Er.

Er. (1843), G. Z, IV, 264—Lacord. [1854 (1855)], G. C. 293 & 299—Murr. (1864), M. N. 408—Grouv. (1908), C. R. I. 340 & 342.

haroldi Reitt. (1873), S. E. N. 182¹—Steb. Himalaya¹
(1914) I. F. I. 110². Siwaliks²
waterhousei Grouv. (1908), C. R. I. 342¹, North India¹
t. 6, f. 5—Steb. (1914), I. F. I. 110². Siwaliks²

10. **Trimenus** Murr.

Murr. (1864), M. N. 405—Grouv. (1908), C. R. I. 340 & 343.

adpressus Murr. *l. c.* 406¹, t. 36, f. 4. East Indies²
angustatus Murr. *l. c.* 407²—Grouv. Ceylon³
(1908), *l. c.* 343³. Nilgiris³

Malay Archipelago¹

parallelopipedus Motsch.

(*Epuræa*) (1863), B. M. I, 438¹—Reitt. Ceylon¹
(1873), S. E. N. 29—Grouv. (1908),
C. R. I. 343¹.

11. **Haptoncus** Murr.

Murr. (1864), M. N. 401—Reitt. (1884), N. J. 258—Grouv. (1908), C. R. I. 340 & 343-346 [key to species].

Haptoncura Reitt. (1875), V. N. V. B. XIII, 61 & 64, sep. 11 & 14—(1884), N. J. 259.

concolor Murr. (1864), M. N. 402¹—Grouv. Nilgiris²
(1908), C. R. I. 346².

New Guinea¹

epuraeoides Grouv. *l. c.* 344¹ & 346. Ceylon¹

luteolus (*Epuræa*) (1843), G. Z. 272—Ceylon^{3, 4}
Chevr. (*Epuræa*), (1863), A. S. E. F. 4
(III), 602—Reitt. (*Haptoncura*) (1875), Cuba¹

- V. N. V. B. XIII, 62, sep. 12—Grouv. Madagascar²
 (1906), A. S. E. F. LXXV, 75²—
 (1908), C. R. I. 346 [note].
- floreolus* Sharp (1890), B. C. A. II, 1, 305.
- intendens* Walk. (*Nitidula*) (1858),
 A. M. N. H. (3) II, 206³—Olliff (1858),
 P. L. W. X. 70.
- pauperculus* Reitt. (1873), S. E. N. 179.
- pubescens* Murr. (1864), M. N. 403⁴.
- subquadratus* Reitt. (1877), Mittheil.
 Münch. Ent. Ver. I, 22—Blackb.
 (*Haptoncura*) (1891), Trans. R. Soc.
 S. Austr. XIV, 105—Grouv. (1906),
 A. S. E. F. LXXV, 75².
- texanus* Crotch (1874), Trans. Amer.
 Ent. Soc. III 76.
- motschulskyi** Reitt. (1873), S. E. N. 29—
 Grouv. (1908), C. R. I. 344.
- augustulus* Motsch. (*Epuræa*) (1863), Ceylon¹
 B. M. I. 439¹.
- ocularis** Fairm. (*Epuræa*) (1849), Rev. Zool. Ceylon¹
 (2) I, 363, sep. Col. Polynesie, 28—Calcutta¹
 Reitt. (1873), S. E. N. 27—(*Hapton-*Sikkim¹
cura) (1875), V. N. V. B. 62, sep. 12—
 Grouv. (1908), C. R. I. 343¹-345. Japan¹
- bifaciatus* Kraatz. (*Epuræa*) (1895), Tahiti¹
 D. E. Z. 148—Grouv. [1912 (1913)], East Africa¹
 A. S. E. F. LXXXI, 395¹.
- decoratus* Reitt. (*Epuræa*) (1873), Madagascar¹
 S. E. N. 28 & 41—Grouv. (1906),
 A. S. E. F. LXXV, 75¹.
- significans* Wlk. (*Nitidula*) (1858), Ceylon¹
 A. M. N. H. 3 (II), 206¹—Olliff (1885),
 P. L. W. X. 70.
- tetragonus* Murr. (1864), M. N. 401¹, t. 33, Ceylon¹
 f. 7—Reitt. (1884), N. J. 259.
- thiemei* Reitt. (*Epuræa*) (1873), S. E. N. Japan¹
 28 & 41—(1884), N. J. 260¹.
- pulsillus** Grouv. (*Macroura*) (1894), A. S. Kurseong¹
 E. B. XXXVIII, 585¹—(1907),
 A. M. G. XLIII, 575—(1908), C. R. I.
 344 & 345.

- reflexicollis** Motsch. (*Epuræa*), (1863), Ceylon¹
 B. M. II, 431¹—Reitt. (1873), S. E. N. Nilgiris³
 27²—(1877), D. E. Z. XXI, 189—
 Grouv. (1908), C. R. I. 344³ & 346. Japan²
- testaceus** Murr. (1864), M. N. 403¹— Ceylon²
 Grouv. (1908), C. R. I. 346².
- vulpecula* Redt. (1867), R. N. 34— Macassar¹
 Reitt. (1873), S. E. N. 27.

12. **Propetus** Reitt.

- Reitt. (1875), V. N. V. B. XIII, 62 & 64, sep.
 12 & 14—Grouv. (1908), C. R. I. 340
 & 345.

- nigripennis** Redtb. (*Epuræa*) (1867), R. N.
 34¹—Reitt. (1873), V. N. V. B. XIII
 63, sep. 13. Ceylon¹

13. **Amystrops** Grouv.

- Grouv. (1906), A. M. G. XLII, 312.

- montana** Grouv. (1913), R. I. M. VIII, 2, Assam¹
 103¹.

14. **Omosita** Er.

- Er. (1843), G. Z. IV, 298—Lacord. [1854
 (1855)], G. C. 301 & 309—Ganglb.
 (1899), K. M. 464 & 488—Grouv.
 (1908), C. R. I. 341 & 361—Verhoeff.
 (1923), A. N. 13, 78-80, pl. I, figs. 1-3
 & 15.
- ornata** Grouv. (1903), A. S. E. F. LXXII, Darjiling¹
 112¹.

15. **Epuraea** Er.

- Er. (1843), G. Z. IV, 267—Lacord. [1854
 (1855)], G. C. 301 & 302—Ganglb.

(1899), K. M. 464 & 470—Grouv.
 (1908), C. R. I. 340 & 346-352 [key to
 species].

- BIOLOGY:** Perris (1862), A. S. E. F. 2 (IV),
 184-189, pl. 5—Bagnall (1906),
 E. M. M. 42—(1906), Trans. Nat.
 Hist. Soc. Northumberland, 1, 416-
 420—Scott (1920), T. E. S. L. 99-127,
 figs. 1-8—Verhoeff (1923), A. N. 13,
 72-78, pl. II, figs. 16-18 & 20-21; pl.
 VII, figs. 87-91.
- Subgen. *Dadopora* Thoms. (1859), S. C.
 I, 68—(1862), IV, 168—(1867), IX,
 378—Reitt. (1911), F. G. K. 29 & 30—
 Ganglb. (1899), K. M. 473.
- Subgen. *Epuræanella* Crotch (1874),
 Trans. Amer. Ent. Soc. V, 76.
- Omosiphora* Reitt. (1875), V. N. V. B.
 XIII 56 & 63, sep. 6 & 13.
- Subgen. *Micrurula* Reitt. (1884),
 W. E. Z. III, 209—Ganglb. (1899),
 K. M. 472.
- Micruria* Reitt. (1874), V. N. V. B.
 XIII, 56 & 64, sep. 8 & 14.
- andrewesi** Grouv. (1908), C. R. I. 350¹ & Nilgiris¹
 352.
- apicalis** Grouv. (1903), A. S. E. F. LXXII, Sikkim¹
 110¹—(1908), C. R. I. 352.
- arcuata** Grouv. (1908) *l. c.* 350 & 352, t. 6, Nilgiris¹
 f. 6.
- birmanica** Grouv. (1892), A. M. G. XXXII, Burma¹
 840¹.
- braeti** Grouv. (1894), A. S. E. B. XXXVIII, Kurseong¹
 578¹—(1908), C. R. I. 355 (*Micrurula*).
- brunnea** Wiedem (1823), Z. M. II, 72¹— India¹
 Grouv. (1908), C. R. I. 352 [note].
- cerina** Grouv. (1894), A. S. E. B. XXXVIII, Kurseong¹
 579¹—(1908), *l. c.* 355 (*Micrurula*).
- consobrina** Grouv. (1892), A. M. G. XXXII, Burma¹
 840¹.

- convexa** Grouv. (1908), C. R. I. 354¹ & 355 Darjiling¹
(*Micrurula*).
- cribrata** Grouv. (1903), A. S. E. F. LXXII, Darjiling¹
111¹—(1908), *l. c.* 351.
- dubitabilis** Grouv. (*Haptoncura*) (1890), Tenasserim¹
A. M. G. XXIX 121¹.
- emarginata** Grouv. (1906), *l. c.* XLII, 316¹. Burma¹
- exculta** Grouv. [1912 (1913)], A. S. E. F. Darjeeling¹
LXXXI, 394.
ornata Grouv. (non Reitt.) (1903), *l. c.*
LXXII, 109¹—(1908), C. R. I. 352.
- fossicollis** Grouv. *l. c.* 347¹ & 351. Assam¹
- indica** Grouv. (1894), A. S. E. B. XXXVIII, Belgaum¹
459¹—(1908), *l. c.* 346 & 351, t. 6, f. 9.
- insolita** Grouv. *l. c.* 353¹ & 355 (*Micrurula*). Khasis¹
- latissima** Reitt. (1880), N. L. M. II, 42¹—
Grouv. *l. c.* 351². Sumatra¹
Ceylon²
- omissa** Grouv. *l. c.* 349 & 352¹. Assam¹
- persimilis** Grouv. (1913), B. S. E. F. IV, Assam¹
253.
affinis Grouv. (non Steph.) (1908)
C. R. I. 352¹ & 355 (*Micrurula*).
- propinqua** Grouv. (1906), A. M. G. XLII, Burma¹
365¹.
- pumila** Grouv. (1897), *l. c.* XXXVIII, 359¹— India¹
(1908), C. R. I. 351.
- reticulata** Grouv. (1892), A. M. G. XXXII, Burma¹
841¹.
- submaculata** Wlk. (*Nitidula*) (1859), Ceylon¹
A. M. N. H. (3) III, 52¹—Olliff (1885),
P. L. W. 70—Grouv. (1908), C. R. I.
352.
- subochracea** Grouv. (1903), A. S. E. F. Darjiling¹
LXXII, 111¹—(1908), C. R. I. 352.
- subtilis** Grouv. (1894), A. S. E. B. XXXVIII, Kurseong¹
579¹—(1908), C. R. I. 355 (*Micrurula*).
- waterhousei** Grouv. *l. c.* 348¹ & 352. N.-W. Himalayas¹

16. *Stelidota* Er.

- Er. (1843, G. Z. 300—Lacord [1854 (1855)],
G. C. 301 & 310—Ganglb. (1899),

K. M. 463 & 466—Grouv. (1908),
C. R. I. 339 & 361.

- multiguttata** Reitt. (1877), D. E. Z. XXI, Japan¹
110¹—(1884), N. J. 262¹—Grouv. ———
(1908), C. R. I. 361². Ceylon²
nigrovaria Fairm. Nilgiris²
(*Omosita*) (1849), Rev. Mag. Zool. (2) I, Tahiti¹
364, sep. Col.-Polynésie, 28. ———
multiguttata Grouv. (non Reitt.) (1892), Bengal¹
A. S. E. B. XXXVI, 60¹—(1894),
C. R. I. 361.

17. *Ipidia* Er.

Er. (1843), G. Z. IV, 289—Lacord. [1854
(1855)], G. C. 301 & 304—Ganglb.
(1899), K. M. 463 & 465.

- sibirica** Reitt. (*Stelidota*) (1879), D. E. Z. Japan
XXIII, 216—(1884), N.J. 262—Mars. Siberia
(*Stelidota*) (1885), N. R. 77. ———
Burma.

18. *Prometopia* Er.

- Er. (1843), G. Z. IV, 279—Lacord. [1854
(1855)], G. C. 301 & 306—Murr.
(1867), A. M. N. H. (3) XIX, 168,
sep. Col. Old. Cal. 85—Grouv. (1908),
C. R. I. 340 & 358-359 [key to species].
catilina Olliff (1883), T. E. S. L. 177¹— Borneo¹
Grouv. (1897), A. M. G. XXXVIII, ———
366—(1908), C. R. I. 358² & 359 [note]. Kandhesh²
gracilis Grouv. (1908), C. R. I. 358¹ & 359, Nilgiris¹
t. 6, f. 11.
quadrimaculata Motsch (1863), B. M. East India¹
XXXVI, I, 440¹—Grouv. (1897), Ceylon¹
A. M. G. XXXVIII, 366—(1908), Sikkim²
C. R. I. 358² & 359—Arrow (1900), ———
Monogr. Christm. Isl. 92³. Cochin-China³

setosula Grouv. (1894), A. S. E. B. Barway, Bengal¹
XXXVIII, 580¹—(1908), C. R. I. 359.

19. **Parametopia** Reitt.

Reitt. (1884), N. J. 259 & 262—(1885), 17--
Grouv. (1908), C. R. I. 340 & 359-361
[key to species].

concolor Grouv. (1891), C. R. Soc. Ent. Kunbir, Bengal¹
Belg. XXXV, CCXXXVII¹—(1908),
C. R. I. 361.

indica Grouv. (1894), A. S. E. B. XXXVIII, Kurseong¹
581¹—(1908), C. R. I. 361.

tripunctata Grouv. (1908), C. R. I. 360¹. Nilgiris¹
var. *trinotata* Grouv. l. c. 360¹ & 361, Mahé¹
t. 6, f. 12.

20. **Axyra** Er.

Er. (1843), G. Z. IV, 285—Lacord. [1854
(1855)], G. C. 301 & 305—Murr.
(1867), A. M. N. H. (3) XIX, 169, sep.
Col. Old. Cal. 87—Grouv. (1908),
C. R. I. 341 & 356.

Galaor Thoms. (1858), Arch. Ent. II, 43.

Subgen. *Axyrodes* Murr. (1867), A. M. N. H.
(3) XIX, 170, sep. Col. Old. Cal. 88.

feai (*feæ*) Grouv. (1890), A. M. G. XXIX, Burma¹
122¹—(1908), C. R. I. 356 [note].

perplexa Reitt. (1873), S. E. N. 53¹—Grouv. East India¹
(1908), C. R. I. 356-357 [add. descr.].

21. **Megauchenia** M'Leay.

M'Leay (1825), A. J. 45, ed. Lequien (1833),
155—Arrow (1909), A. M. N. H. (8) IV,
191—Heller (1923), E. B. 19, 1-43
[key to species].

- Ischæna* Er. (1843), G. Z. IV, 287—Lacord.
 [1854 (1855)], G. C. 301 & 306—Reitt.
 (1873), S. E. N. 10 & 53—Grouv.
 (1908), C. R. I. 340 & 357-358 [key to
 species].
- angustata** Er. (*Ischæna*) (1843), G. Z. 288¹ East Indies¹
 Grouv. (1890), A. M. G. XXIX, 124— Pegu²
 (1908), C. R. I. 358² (*Ischæna*). Burma³
 var. *peninsularis* Grouv. (1890), A. M. G. Tenasserim⁴
 XXIX, 123 & 124³—Heller (1923),
 E. B. 19, 1, 41⁴ (*angustata*). Malay Archipelago²
 Malacca¹
 Tongking²
- feai** Grouv. (*feæ*) emend. (*Ischæna*) (1892), Burma¹
 A.M.G. XXXII, 842¹—Heller (1923),
 E. B. 19, 1, 42.
- indica** Grouv. (*Ischæna*) (1908), C. R. I. 357¹ Nilgiris¹
 t. 6, f. 5—Heller (1923), E. B. 19, 1, 42.
- interstitialis** Reitt. (*Ischæna*) (1880), India¹
 A. M. G. XV, 456—Grouv. (*Ischæna*)
 (1890), A. M. G. XXIX, 123¹—Heller New Guinea²
 (1923), E. B. 19, 1, 41².

22. *Soronia* Er.

- Er. (1843), G. Z. IV, 277—Lacord. [1854
 (1855)], G. C. 301 & 304—Ganglb.
 (1899), K. M. 464 & 468—Grouv.
 (1908), C. R. I. 340 & 356 [key to
 species]—Verhoeff (1923), A. N. 13.
 88-91, pl. II, figs. 25-26.
- bræti** Grouv. (1894), A. S. E. B. XXXVIII, Kurseong¹
 580¹—(1908), C. R. I. 356.
- imperialis** Grouv. (1903), A. S. E. F. LXXII, Darjiling¹
 113¹—(1908), C. R. I. 356.
- minima** Grouv. (1903), A. S. E. F. LXXII, Darjiling¹
 113¹—(1908), C. R. I. 356.

23. *Atarphia* Reitt.

Reitt. (1884), N. J. 260 & 263—(1885), *l. c.*
39.

Pseudoplatychora Grouv. (1890), N. L. M.
XII, 15 & 31.

convexiuscula Grouv. (*Pseudoplatychora*) East Indies¹
l. c. 15¹ & 31.

24. *Physoronia* Reitt.

Reitt. (1884), N. J. 260 & 263—(1885), 18.

reitteri Grouv. (1892), A. M. G. XXXII, Burma¹
843¹ (*Physorhina*).

25. *Amphicrossus* Er.

Er. (1843), G. Z. IV, 346—Lacord. [1854
(1855)], G. C. 319 & 323—Grouv. (1908),
C. R. I. 341 & 381-384 [key to species].

Lobostoma Fairm. (1892), Rev. d'Ent. XI 90—
Grouv. (1908), B. S. E. F. 109.

Rhacostoma Berg. (1898), Com. Mus. Buenos
Aires I, 18.

densatus Grouv. (1908), C. R. I. 383¹ & 384. Assam¹

discolor Er. (1843), G. Z. IV, 348—Reitt. Bengal¹
(1873), S. E. N. 99—Grouv. (1908), Burma¹
C. R. I. 381¹ & 384.

Annam¹

East Indies¹

muticus Grouv. (1908), C. R. I. 381¹ & 384. Nilgiris¹

oblongus Grouv. (1897), A. M. G. XXXVIII, Sumatra¹
368—(1908), C. R. I. 381¹ & 384.

Pegu¹

Travancore¹

agopus Grouv. (1892), A. S. E. B. XXXVI, Bengal¹
60—(1908), C. R. I. 381¹ & 384. Calcutta.¹

Pegu¹

- pilosus** Grouv. (1908), C. R. I. 382¹ & 384. Ceylon¹
plagiatus Grouv. (1890), A. M. G. XXIX, Burma¹
 125¹.

26. *Aethina* Er.

- Er. (1843), G. Z. IV, 306—Lacord. [1854
 (1855)], 301 & 302—Murr. (1857),
 A. M. N. H. (3), XIX, 176—(1868)
 sep. Ins. Old. Cal. 94—Grouv. (1908)
 C. R. I. 341 & 380 [key to species].
 Subgen. *Aethinopa* Reitt. (1875), V. N. V. B.
 XIII, 109, sep. 13.

- argus** Grouv. (1890), A. M. G. XXIX, 125¹. Burma¹
elongata Reitt. (1875), V. N. V. B. XIII, East Indies¹
 109¹, sep. 13.
nigrocastanea Grouv. (1903), A. S. E. F. Darjiling¹
 LXXII, 115¹—(1908), C. R. I. 380.
obscura Reitt. (1873), S. E. N. 86¹—Grouv. Himalayas¹
 (1908), C. R. I. 380.
puncticollis Grouv. (1897), A. M. G. Tenasserim¹
 XXXVIII, 366¹.
vicina Grouv. (1894), A. S. E. B. XXXVIII, Kurseong¹
 585¹—(1908), C. R. I. 380.

27. *Aethinopsis* Grouv.

- Grouv. (1908), C. R. I. 341 & 379.

- antennata** Grouv. (1908), C. R. I., 379¹. Sikkim¹

28. *Macroura* Reitt.

- Reitt. (1873), S. E. N. 56 & 80—Grouv.
 (1907), A. M. G. XLIII, 552—(1908),
 C. R. I. 341 & 377-378 [key to species].
Idaethina Olliff (1884), N. L. M. VI. 73—
 Grouv. (1908), A. M. G. XLIV, 78.

- cyaneipennis** Grouv. (*Aethina*) (1903), Darjiling¹
 A. S. E. F. 116—(1907), A. M. G. Sikkim¹

- XLIII, 572¹ & 574—(1908), C. R. I.
378¹.
- densita** Reitt. (1875), V. N. V. B. 110¹, sep. Ceylon¹
14—Grouv. (1908), C. R. I. 378¹.
- longipennis** Motsch. (*Carpophilus*) (1858), Ceylon¹
E. E. VII, 40¹—Grouv. (1907),
A. M. G. XLIII, 564 & 574.
- meligethoides** Reitt. (1873), S. E. N. 82¹—Himalayas¹
Grouv. (1907), A. M. G. XLIII, 574—
(1908), C. R. I. 378¹. Australia¹
- nigritula** Reitt. (1873), S. E. N. 82—Grouv. India¹
(1907), A. M. G. XLIII, 575—(1908),
C. R. I. 378¹.
Malacca¹
Sumatra¹
Java¹
- dubia* Grouv. (1894), A. S. E. B.
XXXVIII, 461—(1907), A. M. G.
XLIII, 575.
- orientalis** Nietner (*Meligethes*) (1856), Ent.
Papers (*Colombo*), II, 11—(1857),
A. M. N. H. (2), XIX, 384—Grouv.
(1907), A. M. G. XLIII, 574—(1908),
C. R. I. 378.
- nigritula* Olliff (*Idaethina*) (non Reitt.),
(1885), P. L. W. X. 70.
- respondens* Wlk. (*Meligethes*) (1859), Ceylon¹
A. M. N. H. (3) III, 53¹, Grouv. (1907),
Bombay¹
A. M. G. XLIII, 562¹.
- subrugosa** Grouv. (1894), A. S. E. B. Belgaum¹
XXXVIII, 461¹—(1907), A. M. G.
XLIII, 575—(1908), C. R. I. 378.

29. **Pocadius** Er.

- Er. (1843), G. Z. IV, 318—Lacord. [1854
(1855)], 301 & 317—Ganglb. (1899),
K. M. 464 & 540—Grouv. (1908),
C. R. I. 341 & 380.

- harmandi** Grouv. (1903), A. S. E. F. LXXII, Darjiling¹
114¹.

testaceus Grouv. (1892), A. S. E. B. XXXVI, Bengal¹
60¹.

yunnanensis Grouv. (1910), N. L. M. Yunnan¹
XXXII, 251¹.

30. *Pocadites* Reitt.

Reitt. (1884), N. J. 264 & 267—(1885), 44—
Grouv. (1908), C. R. I. 341 & 380.

dubitabilis Grouv. (1892), A. M. G. XXXII, Burma¹
843¹.

insularis Grouv. (1908), C. R. I. 380¹. Andamans.¹

31. *Cyllodes* Er.

Er. (1843), G. Z. IV, 342—Lacord. [1854
(1855)], G. C. 319 & 320—Ganglb.
(1899), K. M. 464 & 543—Grouv.
(1908), C. R. I. 341 & 385-391 [key
to species].

Pseudocamptodes Grouv. (1896), A. S. E. F.
LXV, 76.

Strongylus Herbst. (1792), Käf. IV, 179
(pars)—Steph. (1830), I. B. E. III, 30
& 42 (pars)—Reitt. (1878), S. E. N.
98 & 128—Sharp. (1891), B. C. A.
355.

Volvoxis Kugel (1794), Schneid. Mag. I, 5,
355 (pars).

ænescens Grouv.⁷ (1892), A. M. G. XXXII, Burma¹
847¹ & 848.

andamanensis Grouv. (1908), C. R. I., 387¹ Andamans¹
& 390.

angustipes Grouv. *l. c.* 385-386¹ & 390. Sikkim¹

bifascies Wlk. (*Tritoma*) (1859), A. M. N. H.
(3) III, 259¹—Olliff (*Camptodes*)
(1885), P. L. W. X, 71—Grouv. (1908),
C. R. I. 385¹.

- opponens* Wlk. (*Chilocorus*) (1859),
A. M. N. H. (3) IV, 219—Harold.
(*Camptodes*) (1875), Col. Hefte XIV,
211.
- ornatus* Motsch. (*Camptodes*) (1863), Ceylon¹
B. M. II, 442—Reitt. (1884), N. J. ———
268—Grouv. (1908), C. R. I. 391. East Indies
Cochin China
- notatus* Reitt. (*Strongylus*) (1873), 129—
(1885), W. E. Z. IV, 174. Japan
- dubitabilis** Grouv. (1913), Col. Cat. Junk,
pars. 56, 163.
- dubius* Grouv. (non. Reitt.), (1892), Burma¹
A. M. G. XXXII, 846¹ & 849.
- humeralis** Grouv. l. c. 847¹ & 849. Burma¹
- indicus** Grouv. (1894), A. S. E. B. XXXVIII, Bengal¹
462—(1908), C. R. I. 385¹ & 391. Kanara¹
- montanus* = Grouv. (*Pseudocamptodes*) Nilgiris¹
(1903), A. S. E. F. LXXII, 126— Kashmir¹
(1908), C. R. I. 385¹.
- insularis** Grouv. (1908), l. c. 388¹ & 391, Andamans¹
t. 7, f. 9.
- limbatus** Grouv. (1892), A. M. G. XXXII, Burma¹
847¹ & 849.
- marginatus** Grouv. (1908), C. R. I. 386¹ & Cachar¹
391. Assam.
- nigropunctatus** Grouv. (1892), A. M. G. Burma¹
XXXII, 846¹ & 849.
- quadrinotatus** Grouv. (1908), C. R. I. Andamans¹
388¹ & 391.
- quadrinotatus** Grouv. (1892), A. M. G. Burma¹
XXXII, 845¹ & 849.
- sexpunctatus** Grouv. (1908), C. R. I. 389¹ & Nilgiris¹,
391.
- undulatus** Grouv. (1892), A. M. G. Burma¹
XXXII, 845¹ & 849.
- variegatus** Grouv. (1892), A. M. G. East Indies¹
XXXVIII, 370¹.

32. *Oxycnemus* Er.

- Er. (1843), G. Z. IV, 351—Lacord. [1854
(1855)], G. C. 319 & 324—Reitt. (1873),

S. E. N. 98 & 113—Sharp (1891),
B. C. A. 362.

Eugoniopus Reitt. (1884), N. J. 264 & 267—
(1885), *l. c.* 76—Sharp (1891), B. C. A.
364.

Psilopyga Lec. (1853), Proc. Acad. Philad.
VI, 286—Lacord. [1854 (1855)], G. C.
301 & 315.

reitteri Grouv. (*Eugoniopus*) (1892), Burma¹
A. M. G. XXXII, 852.¹

33. *Tricanus* Er.

Er. (1843), G. Z. IV, 352—Lacord. [1854
(1855)], G. C. 319 & 325—Reitt.
(1873), S. E. N. 98 & 138—Grouv.
(1908), C. R. I. 341 & 392.

nigripennis Reitt. (1873), S. E. N. 139¹— Ceylon¹
Grouv. (1892), A. M. G. XXXII, 854—
(1908), C. R. I. 392¹.

punctatissimus Grouv. (1892), A. M. G. Pegu¹
XXXII, 853¹—(1908), C. R. I. 392². Burma¹
Andamans²

striatopunctatus Grouv. (1892), A. M. G. Pegu¹
XXXII, 853¹ & 854. Burma¹

34. *Pallodes* Er.

Er. (1843), IV, 348—Lacord. [1854 (1855)],
G. C. 319 & 323—Reitt. (1873), S. E. N.
98 & 132—Sharp (1891), B. C. A. 364.
Neopallodes Reitt. (1884), N. J. 264 & 269—
(1885), 78—Grouv. (1908), C. R. I.
341.

birmanicus Grouv. (1892), A. M. G. XXXII, Burma¹
851¹.

cardoni Grouv. (1894), A. S. E. B. XXXVIII, Bengal¹
585—(*Neopallodes*) (1908), C. R. I.
392¹.

- dentatus** Grouv. (*Neopallodes*) (1892), Burma¹
A. M. G. XXXII, 849¹.
- falsus** Grouv. [1912 (1913)], A. S. E. F. Darjiling¹
LXXX, [1912 (1913)], 398¹.
- harmandi* Grouv. (non. Grouv. 1902),
(1903), A. S. E. F. LXXII, 117.—
(1908), C. R. I. 392.
- feai** (*feæ* emend.) Grouv. (1892), A. M. G. Burma¹
XXXII, 851¹.
- vicinus** Grouv. (*Neopallodes*), (1892), A.M.G. Burma¹
XXXII, 850¹.

35. *Lasiodactylus* Perty.

- Perty (1830-1834), D. A. A. 34—Lacord.
[1854 (1855)], 301 & 317—Grouv.
(1908), C. R. I. 341 & 361-365 [key
to species].
- BIOLOGY: Ghosh (1921), R. P. E. M. 108
(*Lordites*).
- Lordites* Er. (1843), G. Z. IV, 316—Lacord.
[1854 (1855)], 301 & 316—Murr.
(1867), A. M. N. H. (3) XIX, 175, sep.
Col. Old. Cal. (1878), 93.

- æthinodes** Reitt. (1873), S. E. N. 91¹— India¹
Grouv. (1908), C. R. I. 364.
- chevrolati** Reitt. (1873), S. E. N. 90¹— South Africa¹
Grouv. (1908), C. R. I. 364²—De
Peyerimhoff (1916), R. I. M. XII, 3, Bengal²
109-113³, 3 figs. [descr. larva & biol.]. Coromandel³
- monticola** Grouv. (1910), N. L. M. XXXII, Yunnan¹
250¹.
- pictus** M'Leay (*Nitidula*) (1825), A. J. 40— Malay Archipelago.
Lequien (1833), A. J. 147—Arrow
(1909), A. M. N. H. 8 (IV), 191. East Indies
- costulatus* Fairm. (*Lordites*) (1868), A. S. Bourbon Isd.
E. F. 4 (VIII), 775—Reitt. (1873), 88 Madagascar
—Grouv. (1908), C. R. I. 365.
- glabricola* Candèze (*Lordites*) (1861), Mém. Ceylon
Liège XVI, 340—Reitt. (1873), S.E.N. Bengal

- 88—(1884), N. J. 266—Grouv. (1908), Nilgiris
C. R. I. 361 & 365. Andamans
Pegu
-
- testudinarius* Reitt. (1873), S. E. N. 87— Madagascar
Grouv. (1895), B. S. E. F. CCLVII—
(1908), C. R. I. 365.
- pubescens** Grouv. (1908), C. R. I. 362¹ & Murree Hills¹
364 (*Lordites*).
- quadrinotatus** Grouv. (*Lordites*) (1908), East Indies¹
A. S. E. F. LXVIII, 143¹.
- reitteri** Grouv. (1908), C. R. I. 363 & 364¹. Bengal¹
Ceylon¹

36. **Circopes** Reitt.

- Reitt. (1873), S. E. N. 56 & 79—Grouv.
(1908), C. R. I. 340 & 365 [key to
species].

- indicus** Motsch. (*Pocadius*) (1858), E. E. Kurseong¹
VII, 43—Reitt. (1873), S. E. N. 79— Nilgiris¹
Grouv. (1908), C. R. I. 365¹.
- marginatus** Grouv. (1894), A. S. E. B. Kurseong¹
XXXVIII, 584¹—Grouv. (1908),
C. R. I. 365.
- subquadratus** Motsch. (*Pocadius*) (1858); Ceylon¹
E. E. VII, 43—Reitt. (1873), S. E. N. Nilgiris¹
79—Grouv. (1908), C. R. I. 365¹.

37. **Xenostrogylus** Woll.

- Woll. (1854), I. M. 127—Ganglb. (1899),
K. M. 464 & 536—Grouv. (1908),
C. R. I. 341 & 378.
- Subg. *Strongylolasius* Reitt. (1911),
F. G. K. 26 [note].
- Subg. *Oxystrongylus* Reitt. *l. c.* [note].

- dorsalis** Grouv. (1908), C. R. I. 378¹. North Kanara¹

38. *Cametis* Motsch.

- Motsch. (1863), B. M. XXXVI, I, 2, 440—
Grouv. (1908), C. R. I. 384.

picea Motsch. *l. c.* 441¹—Grouv. *l. c.* 384¹. Ceylon¹

V. CRYPTARCHINÆ.

- Ipina* Er. (1843), G. Z. IV, 355 (—*Rhizophagus*).
Ipides Lacord. [1854 (1855)], G. C. 291 & 326.
Ipites Jacq. du Val (1858), Gen. Col. d'Eur, 153 & 157.
Ipina Thoms. (1859), S. C. I, 66 & 69 (—*Cylloides*, + *Cryptarchina*).
Ipideas Philippi. (1864), An. Univ. Chile, 454.
Ipini Lec. (1861), C. N. A. 82 & 84.
Ipida Reitt. (1873), S. E. N. 7 & 139 (—*Ipsomorpha*).
Ipsi Mars. (1885) N. R. 20.
Ipsina Sharp (1891), B. C. A. 873.
Pityophagini Fauc. (1894), Gen. Col. 27.
Ipiens Lameere (1900), Fn. Belg. II, 342 & 354.
Cryptarchini Reitt. (1884), N. J. 257 & 269—
 Ganglb. (1899), K. M. 447 & 548 [key to genera]—
 Grouv. (1908), C. R. I. 326 & 395—
 Reitt. (1911), F. G. K. 11 & 36 [key to genera].

39. *Cryptarcha* Shuck.

- Shuck (1839), E. B. E. 165—Lacord. [1854 (1855)], G. C. 326—
 Ganglb. (1899), K. M. 549—
 Grouv. (1908), C. R. I. 395-397 [key to species]—
 Reitt. (1911) F. G. K. 37.
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 Subg. *Arhina* Murr. (1867), A. M. N. H. (3) XIX, 178—
 Col. Old. Cal. (1868), 96.

- Subg. *Cryptarchula* Ganglb. (1899), K. M. 550.
- andrewesi** Grouv. (1908), C. R. I. 396¹ & 397. Nilgiris¹
- bicolor** Grouv. (1892), A. M. G. XXXII, 854 & 856¹. Burma¹
- dubia** Grouv. (1890), A. M. G. XXIX, 126— (1892), l. c. XXXII, 856¹. Burma¹
- feai** (*feæ* emend.) Grouv. (1892), A. M. G. XXXII, 855 & 856¹—Grouv. (1908), C. R. I. 397¹. Bengal¹
Pegu¹
- flavipennis** Reitt. (1873), S. E. N. 120¹, East Indies¹
sep. 24—Grouv. (1908), C. R. I. 397². Sikkim²
- flavoguttata** Reitt. (1875), V. N. V. B. East Indies¹
XIII, 120¹, sep. 24.
- fraterna** Grouv. (1908), C. R. I. 395¹ & 397. Mahé¹
- lesnei** Grouv. (1903), A. S. E. F. LXXII, Darjiling¹
118¹—(1908), C. R. I. 397.
- nigropunctata** Grouv. (1892), A. M. G. Burma¹
XXXII, 854¹ & 856.
- octopunctata** Grouv. (1897), A. M. G. Burma¹
XXXVIII, 371¹.
- ocularis** Reitt. (1875), V. N. V. B. XIII, East Indies¹
121, sep. 25—Grouv. (1892), A. M. G.
XXXII, 855¹ & 856.
- rajah** Motsch. (1863), B. M. XXXVI, II, Ceylon¹
443¹—Grouv. (1908), C. R. I. 397
[note].
- ritsemai** Olliff (1884), N. L. M. VI, 246¹. East Indies¹
- rufomaculata** Grouv. (1897), A. M. G. Tenasserim¹
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40. *Glischrochilus* Reitt.

Reitt. (subg. *Ips*) (1873), S. E. N. 162—
Ganglb. (1899), K. M. 549 & 551.

BIOLOGY: Munro, 1917, Proc. R. Physical
Soc., Edinburgh, XX, 3, 123-158, 5
pl. 28 figs.—Ritchie (1917), Trans.

R. Soc. Edinburgh, LII, part 1, No. 10,
213-234, plates—Blackman (1919),
Psyche, XXVI, 4, 85-96, 1 plate, 1 fig.
—Verhoeff (1923), A. N. 12, 80-88, pl.
I, figs. 4-6, 13 & 14, pl. II, figs. 22-24;
pl. VII, fig. 92.

Ips F. (1776), Gen. Ins. 23—Lacord. [1854
(1855)], G. C. 226 & 327 (pars).

Librodor Reitt. (1884), N. J. 269 & 270.

Subg. *Cryptarchips* Reitt. (1911), F. G. K.
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Subg. *Librodor* Ganglb. (1899), K. M. 553—
Reitt. (1911), F. G. K. 37 & 38.

egregius Grouv. (*Librodor*) (1892), A. M. G.. Burma¹
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japonius Motsch. (*Ips*) (1857), E. E. VI, 28— Burma¹
Grouv. (1892), A. M. G. XXXII,
856¹ (*Librodor*).

chinensis Reitt. (*Ips*) (1873), S. E. N.
160—(1879), Verh. Zool-bot. Ges.
Wien. XXIX, 508.

davidis (*Ips*) Fairm. (1878), A. S. E. F. (5)—
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Cybocephalini Horn (1879), Nitid. U. State,
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447 & 545—Grouv. (1908), C. R. I.
326 & 392.

Cybocephalinæ Sharp (1891), B. C. A. 372—
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41. *Cybocephalus* Er.

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(1855)], G. C. 319 & 322—Ganglb.
(1899), K. M. 546—Grouv. (1908),
C. R. I. 392-395 [key to species].

- BIOLOGY:** Rutherford (1914), Trop. Agric. XLIII, 4, 319-323—Malenotti (1917), Redia, XIII, 1, 17-53, 2 pl.—Herbert (1920), U. S. Dept. Agric. Bull. 838, 22, 6 pl. 5 figs.
- Acribis* Waterh. (1877), Proc. Zool. Soc. Lond. 78—Champ. (1913), T. E. S. L. 71.
- Phantazomerus* Jac. du Val. (1854), B. S. E. F. 307.
- Stagnomorpha* Woll. (1854), I. M. 482.
- æneonitens** Champ. (1923), E. M. M. West Almora¹ LIX, 77-78¹.
- binotatus** Grouv. (1908), C. R. I. 394¹ & Assam¹ 395—Champ. (1923), E. M. M. LIX, West Almora² 78² [addl. descr.].
- chlorocephalus** Er. (1844), G. Z. V. 442—India¹ Motsch. (1863), B. M. XXXVI, II, Ceylon¹ 479—Reitt. (1874), V. N. V. B. XII, Nilgiris¹ 6—Grouv. (1908), C. R. I. 395¹—Haldwani² Champ. (1923), E. M. M. LIX, 77²—West Almora² [addl. descr.].
—————
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- major** Motsch. (1863), B. M. XXXVI, II, Ceylon¹ 478¹—Reitt. (1874), V. N. V. B. XII, Bombay¹ 12—Grouv. (1908), C. R. I. 395¹.
- nigripennis** Motsch. (1863), B. M. XXXVI, Ceylon¹ II, 479¹—Reitt. (1874), V. N. V. B. 12.
- puncticeps** Grouv. (1908), C. R. I. 393¹ & Kanara¹ 395. Nilgiris¹
- smaragdicolis** Motsch. (1866), B. M. Ceylon. XXXIX, I, 398—Reitt. (1874), V. N. V. B. XII, 6—Grouv. (1908), A. S. E. F. LXXXVII, 395.
- splendens** Grouv. (1908), A. S. E. F. Nilgiris¹ LXXXVII, 392¹ & 394.

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(NOTE.—Names *in italics* are treated as synonyms and should be looked up under the names given in roman letters. The generic name noted against each specific name is that of the genus in which it is placed in this Catalogue. The species in each genus are placed in alphabetical order and the position of the genus is shown in the Index to Genera.)

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