



A CHECKLIST OF INDIAN DUNG BEETLES (COLEOPTERA: SCARABAEIDAE)

I.C. MITTAL* AND RAHUL JAIN

Department of Zoology, Kurukshetra University, Kurukshetra-136119
Corresponding address: Salarpur Road (near PNB colony), Kurukshetra-136118
E-mail: icm_saggi15@yahoo.co.in

ABSTRACT

A review of recent literature on dung beetles reflected that the systematics of families and subfamilies of Scarabaeoidea are in disarray, particularly their phylogeny and hierarchical level, and the situation seems to remain unresolved until all its speciose groups get a comprehensive treatment. In Scarabaeinae, however, now a 12-tribe system – six for rollers and six for tunnellers, based on recent in-depth morphological and behavioral studies combined with supporting molecular evidences, has more or less been accepted globally. Many new genera, mostly carved out of some of the old and larger ones, had also been erected. Consequently, it became inevitable to review and update the 80-years old 'Fauna of British India' by Arrow (1931) on Indian Scarabaeinae which had become outdated. Accordingly, the taxonomy of the Indian dung beetle fauna was reviewed and known species until now were collated, listed and reallocated among the nine tribes now recognized for Indian fauna. New accepted names for many genera have also been included assigning them to their respective taxa. Despite the exclusion of about 70 odd species (from the total of 354 species) reported in 'Fauna of British India' from other areas (i.e., Pakistan, Afghanistan, Sri Lanka, Myanmar, Indonesia, etc.) outside the present Indian region, the final tally from India is around 420 species in 38 genera.

Key words: Scarabaeinae, classification, tribe, updating, 'fauna of British India', Indian region, geographical distribution

Systematics – in general

Dung beetle taxonomy has changed to a considerable level over the years (Janssens, 1949; Balthasar, 1963; Hanski and Cambefort, 1991; Lawrence and Newton, 1995; Browne and Scholtz, 1995, 1999; Scholtz *et al.*, 2009). Traditionally the superfamily Scarabaeoidea ('Lamellicornia' of Arrow, 1910; Janssens, 1949) consisted of three families: Lucanidae, Passalidae and Scarabaeidae. But of late several subfamilies included earlier under Scarabaeidae (Arrow, 1910; Janssens, 1949) have also been given family status, such as Trogidae, Geotrupidae, Hybosoridae, Ochodaeidae, etc., culminating in designating all subfamilies to family rank in Catalogue of Life (Schoolmeesters, 2011).

This trend as such seems disastrous for the classification of Coleoptera, as it not only necessitates the raising of all its subfamilies by one rank thereby destabilizing classification, but also making the information retrieval difficult. While raising some subfamilies to family rank seems justified, enhancing the level of each taxa would appear rather artificial and will create hierarchical level problems. The group

as such would lose its natural identity through unique common characteristics of lamellate antennae and fuscous body form. The historical intuitive classification of dung beetles based on apparent morphological and behavioral similarities, though simplistic was more cohesive and more predictive. Nonetheless, the recent more detailed morphological and molecular studies (Montreuil, 1998; Villalba *et al.*, 2002; Philips *et al.*, 2004; Forgie *et al.*, 2005, 2006; Ocampo and Hawks, 2006; Monaghan *et al.*, 2007; Sole and Scholtz, 2010) highlighting the relationships and lineages of various subgroups have paved way for bringing out some long due changes especially in Scarabaeinae. But until such studies are carried out on all the groups, particularly on more species-rich taxa, and a uniformity in viewpoints at categorical level emerges, the systematic of dung beetles will remain unresolved.

In the traditional system the Scarabaeidae was divided by Arrow (1931) and Janssens (1949) into two groups – Laparosticti and Pleurosticti, former having subfamilies with members mostly feeding on dung and other decaying matters, and the latter associated with

vegetation. Laparosticti now with the raising and separation of some more subfamilies to family level, i.e., Trogidae, Geotrupidae, and Hybosoridae, is left mainly with two coprophagous subfamilies, Scarabaeinae and Aphodiinae, sister to each other, besides some other smaller ones.

Scarabaeinae, the worldwide dung beetle group in strict sense, is now divided into 12 tribes (Hanski and Cambefort, 1991; Scholtz *et al.*, 2009) – six each (Canthonini, Scarabaeini, Gymnopleurini, Eucraniini, Eurysternini, Sisyphini) for rollers and (Dichotomiini, Coprini, Onitini, Phanaeini, Oniticellini, Onthophagini) for tunnellers – containing 201 genera listed in Halffter and Matthews (1966), raised to 236 genera (4950 species) by Hanski and Cambefort (1991), to 251 according to Scholtz *et al.* (2009) and 263 (6214 species) according to Schoolmeesters (2011). Though the number of genera is growing steadily, it is more so because of the splitting of the older ones.

Indian Scarabaeinae–Overview

For the last more than 80 years the ‘Fauna of British India’ on Scarabaeinae (as ‘Coprinae’) by Arrow (1931) was the only authentic referral document on Indian dung beetles. But as a consequence of several new hypotheses and the changes brought forth globally in the taxonomy, a reviewing and updating of this has become imperative. Since more and more new evidences are still pouring in to test and revise new hypotheses, the updating of classification will yet remain an ongoing and continuous process.

From the Indian subcontinent – a major part of Oriental region – the dung beetles record has not been so encouraging. Arrow (1931) reported only 354 species, that too from ‘British India’, which besides the present India encompassed several neighbouring areas/ countries. About 70 such species, belonging to Arabian countries, Afghanistan, Pakistan, Nepal, Sri Lanka, Bangladesh, Myanmar, Indo-China, Indonesia, (Java, Sumatra, Borneo), etc., when excluded bring this number further down to mere 284. In the last 80 years subsequent to Arrow (1931), the addition of new records and new species taxa from the Indian region though augmented the list to about 420 species (in 38 genera) (a checklist provided), it still seemed a meager number from this major part of Oriental region with a large variety of habitats. The two hotspots of India, Himalaya and Western Ghats alone, if explored systematically through surveys, might enlarge the fauna. From the Southeast Asia archipelago only,

another rich Oriental part, Hanski and Cambefort (1991) reported 450 species.

Dung beetles reported by Arrow are mostly based on museum records accumulated 257 years since Linnaeus. But the recent field studies, however, do not substantiate it, as majority of species reported in this treatise are not to be found in the field. As a case study, the systematic surveys conducted in the last forty years (1972–2012) to explore dung beetles in northwest India covering almost 250,000 sq km area of Haryana, Punjab, Chandigarh, Himachal Pradesh, Uttarakhand, western Uttar Pradesh and northern Rajasthan yielded not more than 150 species from all varied habitats (Mittal, 1981; 1999; 2000; 2005; 2011). One reason for this disparity might be the recent decline in dung beetle fauna in the areas surveyed because of the extensive anthropological disturbances (Mittal, 2005).

Arrow (1931) arranged Scarabaeinae (his Coprinae) into four divisions (= tribes) – Scarabaeini, Sisyphini, Coprini and Panelini. But presently because of 12-tribe classification accepted worldwide (Hanski and Cambefort, 1991; Scholtz *et al.*, 2009), the Indian fauna gets reallocated in nine tribes – four for dung rollers and five for tunnellers. Rollers are mostly with slender and elongated legs and without horns or projections on head and pronotum. Arrow’s old ‘Scarabaeini’ has now been bifurcated into tribes Scarabaeini and Gymnopleurini. Sisyphini has been retained as such and Canthonini brought into accommodate some genera from other groups. ‘Panelini’ of Arrow exists no more. Canthonini is said to be polyphyletic and composed of many lineages (Scholtz *et al.*, 2009). It is a primitive group, succeeded by Scarabaeini and Gymnopleurini, in possessing nine antennomeres. Sisyphini with eight antennomeres seems to be most advance among rollers. Protibiae in Canthonini, Gymnopleurini and Sisyphini are with three teeth, whereas in Scarabaeini these are with four. Protarsi are present in Canthonini and Gymnopleurini, absent in Scarabaeini, and short and slight in Sisyphini. Mesocoxae are parallel in Canthonini and Sisyphini, and are obliquely placed in Scarabaeini and Gymnopleurini. The elytra in some genera of Canthonini are with lateral edge influxed downwardly as pseudopipleurae- normal in Scarabaeini; strongly emarginated exposing pleural sclerites in Gymnopleurini; and posteriorly attenuated in Sisyphini. Though armature on head and pronotum is absent in rollers, in Sisyphini the exceptionally long meso- and

meta-legs bear spines and teeth. The above tribal attributes are so diametrically opposing each other as to give any help to resolve their lineages and interrelationships, but in the widely accepted view, Canthonini is more ancestral, and Sisyphini the most, derived (Scholtz et al. 2009).

Rollers in India are represented by 10 genera (63 species) only, in comparison to global 135 genera (1157 species). Canthonini, with four genera (21 species), seems to be a loose aggregation with different affiliations considered to be 'rollers'. Two genera, *Panelus* Lewis (five species) and *Pycnpanelus* Arrow (one species) have been shifted here from Panelini and *Ochicanthon* Vaz-De-Mello (earlier *Phacosoma* Boucomont) (14 species) from Coprini divisions of Arrow (1931). Fourth one is *Larhodium* Balthasar with a single species. From Panelini group all other taxa have been transferred to various tribes – *Delopleurus* Erichson and *Paraphytus* Harold to Dichotomiini, *Haroldius* Boucomont to Onthophagini and the only species of *Ponerotrogus* (i.e., *annandalai* Silvestri) assigned to *Haroldius* – and thus the group name does not exist any more. Scarabaeini is represented by its nominate genus *Scarabaeus* (nine species) only. Gymnopleurini comprised of four genera (*Paragymnopleurus* Shipp, *Garreta* Janssens, *Allogymnopleurus* Janssens and *Gymnopleurus* Illiger-24 species), all derived from old genus *Gymnopleurus*. Sisyphini in India also is represented by a lone genus *Sisyphus* Latreille (9 species).

All other dung beetles other than rollers, which were kept by Arrow (1931) in a single group 'Coprini', are now comprising of five tribes – Dichotomiini, Coprini, Onitini, Oniticellini and Onthophagini, most of which are tunnellers except some endocoprids (in Oniticellini). Like Canthonini among rollers, Dichotomiini is a basal group among tunnellers (Scholtz et al., 2009), followed at intermediate level by Coprini and Onitini, with Oniticellini and Onthophagini (most specialized among dung beetles) being highly developed.

Dichotomiini is very similar to Coprini showing some common characters. In both the groups the second segment of labial palpi is shorter than first and third segment being clearly visible. But the groups differ in lacking of external ridges on short meso- and metatibiae in Dichotomiini and in having external ridge on at least metatibiae with a subterminal tooth in Coprini. Body in both is elongate to oval, strongly convex and with distinct elytral striae. Both tribes are with 9-antennomeres and three teeth on protibiae

(except four in *Copris*). However, genus *Delopleurus* of Dichotomiini is with 8- antennomeres, and sinuate elytra on sides. Onitini, also not much evolved, is with all basal attributes, i.e., 9- antennomeres, quadridentate protibiae and visible scutellum. Oniticellini is with 8- antennomeres, and Onthophagini with a mix of 8- and 9- antennomeres. Some genera, e.g., *Anoctus*, *Cassolus*, *Disphysema* and some *Onthophagus*, in Onthophagini are with 9- antennomeres. Both these groups are with unique vesicles (Scholtz et al., 2009) on 7th and 8th antennomeres showing strong evidence as sister groups. Oniticellini resembles Onitini in possessing a visible scutellum. Scutellum in Onthophagini is visible only in taxa with 9- antennomeres. Protibiae in Onthophagini are with four teeth, reduced in some to three or two.

Many genera of Dichotomiini have been shifted from the erstwhile Coprini and because of their similarities and affiliations are still liable to be shifted back to Coprini along with the base genus *Dichotomius* (not represented in India). The remaining taxa will then form Ateuchini with *Ateuchus* as a base genus (also not represented in India) and *Delopleurus* unique in possessing 8- antennomeres, and laterally sinuate elytra (like gymnopleurids). The current composition of Dichotomiini does not seem uniform and stable. The poly- or paraphyletic nature of the group (also of Canthonini) was reviewed by Scholtz et al. (2009). Coprini in India is left with three genera – *Catharsius*, *Copris* and *Synapsis*.

In the tree of Dichotomiini genera of Montreuil (1998) and reanalyzed by Phillips et al. (2004), genus *Synapsis* of Coprini is closest to *Heliocopris* of Dichotomiini and at a little distance from two other genera lineages of Coprini. Hence, the present assemblage of Coprini is not monophyletic, and of Dichotomiini also, which is divided into two main lineages- one with *Ateucus* group and the other with *Dichotomius* one, with *Synapsis* and other Coprini genera in between. The difference of opinion on the validity and composition of Dichotomiini and Coprini was analyzed by Scholtz et al. (2009). Based upon intermingled scatter of genera of Dichotomiini, Canthonini and Coprini in Phillips et al. (2004)'s analysis, Scholtz et al. (2009) emphasized the desirability of the revision of current tribal level classification and their generic composition. According to them Dichotomiini is the tribe that suffers the poorest phylogenetic resolution in all the studies as there is virtually no coherent pattern in any of the generic groupings.

Onitini in India is represented by two genera only – *Onitis* and *Cheironitis*. In Oniticellini, several genera had been carved out from the erstwhile *Drepanocerus* Kirby, such as, *Eodrepanus*, *Sinodrepanus*, *Tibiodrepanus*, etc. and the genus by the name *Drepanocerus* is no more represented in India. Likewise, *Oniticellus* is also fragmented in several genera – *Euoniticellus*, *Tiniocellus*, etc. Genus *Liatongus* remains as such with 13 species in India.

Onthophagini in India comprises of maximum number of genera and is the largest tribe because of highly speciose genus *Onthophagus*, which includes more than 1500 species worldwide (with 345 Oriental species) making it perhaps the largest animal genus, out of which about 205 species belong to India. Though *Onthophagus* is divided into many subgenera, some of them, i.e., *Digitonthophagus*, *Proagoderus*, *Strandius*, etc., are considered as genera. Arrow (1931) never gave formal subgeneric names but instead used species-groups name. The current subgeneric classification of *Onthophagus* is poorly developed and sometimes artificial and non-monophyly based (Tarasov and Kabakov, 2010). Hence, it creates problems in correctly assigning species to their respective subgenus. Therefore, though required, a complete subgeneric classification of *Onthophagus* is not proposed at present. Another allied genus *Caccobius* is bifurcated into *Caccobius* and *Cleptocaccobius*.

A checklist of tribes, genera and species of dung beetles represented in contemporary Indian region is presented in Table 1. More than 400 species found occurring have been reorganized into currently recognized nine tribes and 38 genera. For all the taxa, author names along with the year of first valid publication are provided. As distribution is important, the geographical data have been collated from all available sources in detail. India in British times was divided into a few larger provinces and states, which in independent India got reorganized into smaller administrative regions – States and Union Territories, mostly with different names. More recently, many states and cities have been renamed in traditional local languages. Hence, old names of cities and states and repeated currently by many workers and websites, for e.g., Bombay and Madras are neither the state name today nor the city. The old ‘Assam’ state of NE India is reorganized into 6-7 states and itself known as Asom. Hence, the old places reported by Arrow (1931) and elsewhere have been traced to their current names. The places which now fall in Pakistan, Bangladesh, Myanmar or Sri Lanka, have been excluded.

Table 1. A checklist of dung beetles from India

Family Scarabaeidae**Subfamily Scarabaeinae Latreille, 1802****1 CANTHONINI Lansberge, 1874****1.1 Larhodium Balthasar, 1963**

1.1.1 *Larhodium calcaratus* (Janssens), 1934
Jharkhand (Barway)

1.2 Ochicanthon Vaz de Mello, 2003

- 1.2.1 *Ochicanthon besucheti* Cuccodoro, 2011
Meghalaya (Khasi Hills, Shillong)
- 1.2.2 *Ochicanthon deplanatus* (Paulian), 1983
Meghalaya (Khasi Hills, Cherrapunji)
- 1.2.3 *Ochicanthon devagiriensis* Sabu & Latha, 2011
Kerala (Eravikulam National Park)
- 1.2.4 *Ochicanthon ernei* Cuccodoro, 2011
Meghalaya (Khasi Hills)
- 1.2.5 *Ochicanthonfernandoi* Sabu & Latha, 2011
Kerala (Silent Valley)
- 1.2.6 *Ochicanthon gauricola* Cuccodoro, 2011
Kerala (Pothundy Dam)
- 1.2.7 *Ochicanthon laetus* (Arrow), 1931
Tamil Nadu (Nilgiri Hills), Kerala (Palghat Hills, Thirunelly forest)
- 1.2.8 *Ochicanthon loebli* (Paulian), 1980
Tamil Nadu (Palani Hills, Kodaikanal)
- 1.2.9 *Ochicanthon murthyi* Vinod & Sabu, 2011
Kerala (Thirunelly, Devagiri, Kozhikode)
- 1.2.10 *Ochicanthon mussardi* Cuccodoro, 2011
Kerala (Cardamon Hills)
- 1.2.11 *Ochicanthon nitidus* (Paulian), 1980
Tamil Nadu (Anaimalai Hills), Kerala (Valparai, Mannavan Shola, Thekkadi, Nelliampathi, Panamaram)
- 1.2.12 *Ochicanthon obscurus* (Boucomont), 1920
Arunachal Pradesh (Kachin Hills)
- 1.2.13 *Ochicanthon tristis* (Arrow), 1931
Tamil Nadu (Nilgiri Hills), Kerala (Silent Valley, Palghat Dist.)
- 1.2.14 *Ochicanthon tristoides* (Paulian), 1983
West Bengal (Darjeeling), Meghalaya (Garo Hills)
- 1.3 Panelus Lewis, 1895**
- 1.3.1 *Panelus assamensis* Arrow, 1907
Arunachal Pradesh (Patkai Hills), Asom (Sadiya)
- 1.3.2 *Panelus besucheti* Paulian, 1980
Tamil Nadu (Udumalaipettai)
- 1.3.3 *Panelus keralai* Paulian, 1980
Kerala (Cardamon Hills, Valara Fall)
- 1.3.4 *Panelus manasi* Paulian, 1983
Asom (Manas), West Bengal (Darjeeling)
- 1.3.5 *Panelus mussardi* Paulian, 1980
Kerala (Nelliampathi Hills, Pothundy Dam)
- 1.4 Pycnpanelus Arrow, 1931**
- 1.4.1 *Pycnpanelus rotundus* Arrow, 1931
India (‘Madras’)

- 2 GYMNOPLEURINI Lacordaire, 1856**
- 2.1 *Allogymnopleurus* Janssens, 1940**
- 2.1.1 *Allogymnopleurus maculosus* (Macleay), 1821
Uttarakhand (W. Almora, Kumaon), Madhya Pradesh, Maharashtra (Nagpur), Karnataka (Belgaum), Kerala (Malabar), 'Assam'
- 2.1.2 *Allogymnopleurus spilotus* (Macleay), 1821
Bihar (Ghorakatora), W. Bengal (Berhampur), Karnataka (Bengaluru), Tamil Nadu (Kodaikanal, Palni Hills, Nilgiri Hills, Anaimalai Hills, Madurai)
- 2.2 *Garreta* Janssens, 1940**
- 2.2.1 *Garreta dejeani* (Castelnau), 1840
Uttarakhand (Mussoorie), Madhya Pradesh (Indore, Mhow), Rajasthan (Dungarpur), Maharashtra (Nagpur), Tamil Nadu (Nadur, Javadi Hills), Kerala (Thiruvananthapuram, Malabar), 'Assam'
- 2.2.2 *Garreta gilleti* (Garreta), 1914
'India', Uttar Pradesh (Moradabad)
- 2.2.3 *Garreta mundus* (Wiedemann), 1819
Madhya Pradesh (Hoshangabad, Mandla), Bihar (Chapra)
- 2.2.4 *Garreta opacus* (Redtenbacher), 1848
'Kashmir', Uttarakhand (W. Almora, Kumaon, Berinag, Mussoorie), Himachal Pradesh (Jubbal, Shimla), Punjab (Sivalik belt), Madhya Pradesh (Hoshangabad)
- 2.2.5 *Garreta ruficornis* (Motschulsky), 1854
Uttarakhand (Mussoorie), Punjab (Sivalik belt), 'Assam'
- 2.2.6 *Garreta smaragdifer* (Walker), 1858
'S. India'
- 2.2.7 *Garreta sumptuosus* (Castelnau), 1840
Madhya Pradesh (Indore, Mhow), Gujarat (Gogo, Kathiawar), S. India ('Deccan')
- 2.2.8 *Garreta sylvestris* Mittal, 2011
Haryana (Seonsar & Sonti forests, Kurukshetra Dist.)
- 2.3 *Gymnopleurus* Illiger, 1803**
- 2.3.1 *Gymnopleurus bicallosus* Felsche, 1909
Rajasthan (Jaisalmer), 'Assam'
- 2.3.2 *Gymnopleurus biharensis* Arrow, 1931
Bihar (Chapra)
- 2.3.3 *Gymnopleurus bombayensis* Arrow, 1931
'Kashmir', Karnataka (Belgaum)
- 2.3.4 *Gymnopleurus cyaneus* (Fabricius), 1798
Uttarakhand (W. Almora, Haldwani, Chakrata, Arakot), Haryana (Kalesar forest), Chandigarh, Rajasthan (Bharatpur, Jalore, Jodhpur), Uttar Pradesh (Faizabad), Madhya Pradesh (Jabalpur, Hoshangabad, Mandla), W. Bengal (Kolkata), Gujarat (Jamnagar), Maharashtra (Nagpur), Karnataka (Belgaum, Bellary), Andhra Pradesh (Yemmiganur), Tamil Nadu (Coimbatore, Anaimalai Hills, Kanyakumari), Kerala (Dhoni Forest, Kanhirode, Malabar)
- 2.3.5 *Gymnopleurus flagellatus* (Fabricius), 1787
Jammu & Kashmir (Harwan, Pohru Valley)
- 2.3.6 *Gymnopleurus gemmatus* Harold, 1871
Uttarakhand (Haridwar, Rishikesh, Suswa River), Haryana (Jind), Madhya Pradesh (Jabalpur), Jharkhand (Chota Nagpur, Chakradharpur), W. Bengal (Berhampur), Gujarat (Porbandar), Maharashtra (Nagpur), Karnataka (Bengaluru, Bengaluru), Tamil Nadu (Chennai, Kanyakumari), Puducherry, Kerala ('Travancore')
- 2.3.7 *Gymnopleurus hypocrita* Balthasar, 1961
Jharkhand (Chota Nagpur)
- 2.3.8 *Gymnopleurus koenigi* (Fabricius), 1775
Rajasthan (Churu, Jaisalmer, Jodhpur), Tamil Nadu (Madurai, Yercauda, Shevaroy Hills, Harur, Kodur), Puducherry, Kerala (Karunagappalli, 'Travancore')
- 2.3.9 *Gymnopleurus miliaris* (Fabricius), 1775
Jammu & Kashmir (Jhelum, Sonamarg), Himachal Pradesh, Uttarakhand (Kakrighat, Nainital), Haryana (Kurukshetra, Hissar, Gurgaon), Uttar Pradesh (Agra, Mathura, Faizabad), Rajasthan (Alwar, Bharatpur, Jalore, Jodhpur, Ganganagar, Hanumangarh), Madhya Pradesh (Jabalpur, Hoshangabad), W. Bengal (Berhampur), Gujarat (Porbandar), Maharashtra (Nagpur), Odisha (Puri), Karnataka (Belgaum, Mysuru, Bengaluru), Tamil Nadu (Palni Hills)
- 2.3.10 *Gymnopleurus parvus* (Macleay), 1821
'Kashmir', Uttarakhand (Dehradun), Haryana (Kurukshetra, Hissar, Gurgaon), Rajasthan (Bharatpur), Uttar Pradesh (Agra, Mathura), Madhya Pradesh (Hoshangabad), Bihar (Chapra), W. Bengal (Berhampur) Tamil Nadu (Javadi Hills, Nadur)
- 2.3.11 *Gymnopleurus sindensis* Arrow, 1931, 'India'
- 2.4 *Paragymnopleurus* Shipp, 1897**
- 2.4.1 *Paragymnopleurus melanarius* (Harold), 1867
Karnataka (N. Kanara), Tamil Nadu (Nilgiri Hills), Kerala (Kochi, Nilambur)
- 2.4.2 *Paragymnopleurus sinuatus* (Olivier), 1789
Uttarakhand (Dehradun), Haryana (Kalesar forest), Madhya Pradesh (Mandla), Karnataka (Kanara), Kerala (Palghat, Nilambur)
- 2.4.3 *Paragymnopleurus sinuatus assamensis* (Waterhouse), 1890
Uttarakhand (W. Almora, Dehradun, Jhajra), W. Bengal (Darjeeling, Sukna, Pashok, Gopaldhara), Arunachal Pradesh (Patkai Hills), Nagaland (Naga Hills)
- 3 SCARABAEINI Latreille, 1802**
- 3.1 *Scarabaeus* Linnaeus, 1758**
- 3.1.1 *Scarabaeus (Escarabaeus) andrewesi* (Felsche), 1907
Rajasthan (Ganganagar, Barmer, Jaisalmer, Jodhpur, Sawaimadhopur), 'India'

- 3.1.2 *Scarabaeus (Escarabaeus) bannuensis* Janssens, 1940 'India'
- 3.1.3 *Scarabaeus (Escarabaeus) brahminus* (Castelnau), 1840
Haryana (Kurukshetra), Rajasthan (Barmer, Jaisalmer, Jaipur, Jodhpur, Nagaur, Pali, Pilani), Uttar Pradesh (Mugalsarai), Bihar (Chapra), Andhra Pradesh (Palkonda Hills, Nallamalai Hills), Tamil Nadu (Perundurai, Coimbatore, Tiruchirapalli, Arcot)
- 3.1.4 *Scarabaeus (Escarabaeus) cristatus* Fabricius, 1775
Rajasthan (Barmer, Jaisalmer, Jodhpur, Nagaur, Pali)
- 3.1.5 *Scarabaeus (Kheper) devotus* (Redtenbacher), 1848
Punjab (Sivalik belt), Rajasthan (Barmer, Jaisalmer), Bihar (Chapra), W. Bengal (Berhampur)
- 3.1.6 *Scarabaeus (Kheper) erichsoni* (Harold), 1867
Rajasthan (Barmer, Jodhpur), Karnataka (Bengaluru), Tamil Nadu (Kodaikanal, Podanur),
- 3.1.7 *Scarabaeus gangeticus* (Castelnau), 1840
Himachal Pradesh, Punjab (Sivalik belt), Rajasthan (Barmer, Jaisalmer, Jodhpur), W. Bengal (Sarda), Karnataka (Bengaluru)
- 3.1.8 *Scarabaeus sacer* Linnaeus, 1758
Kashmir (Hunza, 8000'), Himachal Pradesh, Punjab (Sivalik belt), Rajasthan (Bikaner, Jaisalmer, Jodhpur)
- 3.1.9 *Scarabaeus (Kheper) sanctus* (Fabricius), 1798
Madhya Pradesh (Hoshangabad), Bihar, Odisha (Barkul), Maharashtra (Sholapur), Karnataka (Belgaum, Bengaluru), Tamil Nadu (Nilgiri Hills), Kerala (Kinavallur)
- 4 SISYPHINI Mulsant, 1842**
- 4.1 Sisyphus Latreille, 1807**
- 4.1.1 *Sisyphus aages* Moxey, 1962
W. Bengal (Kurseong)
- 4.1.2 *Sisyphus araneolus* Arrow, 1927
Tamil Nadu (Nilgiri Hills, Gudalur)
- 4.1.3 *Sisyphus crispatus hirtus* Wiedemann, 1823
Madhya Pradesh (Mandla), W. Bengal (Berhampur), Karnataka (Belgaum, Bengaluru, Mysuru), Tamil Nadu (Nilgiri Hills), Kerala (Sappal, Palghat, Karkur Ghat, Malabar)
- 4.1.4 *Sisyphus denticrus* Fairmaire, 1886
West bengal (Pashok, Darjeeling), Manipur
- 4.1.5 *Sisyphus indicus* Hope, 1831
Jammu & Kashmir (Batote, Udampur), Himachal Pradesh (Phagu, Theog, Matiana, Shimla Hills), Punjab (Sivalik belt), W. Bengal (Pashok, Darjeeling), Odisha (Barkul), Meghalaya (Khasi Hills), Nagaland (Naga Hills)
- 4.1.6 *Sisyphus longipes* (Olivier), 1789
Madhya Pradesh, W. Bengal (Maidan, Kolkata), Odisha (Barkul, Barkuda Island, Chilka Lake), Maharashtra (Nagpur, Sagoda, Purna river), Andhra Pradesh (Samalkot), Karnataka (Belgaum), Tamil Nadu (Ooty, Nilgiri hills), Kerala (Kozhikode)
- 4.1.7 *Sisyphus mendicus* Arrow, 1931
Tamil Nadu (Anaimalai Hills)
- 4.1.8 *Sisyphus moltaensis* Vazirani, 1964
Uttar Pradesh
- 4.1.9 *Sisyphus neglectus* Gory, 1833
Uttarakhand (Haridwar, Dehradun, Dhobi Ghat, Mussoorie), Punjab (Sivalik belt), Haryana (Kalesar forest), Gujarat (Gogo, Kathiawar), Madhya Pradesh (Chikalda, Jabalpur), Karnataka (Kanara, Dharwar, Mysuru), Kerala (Thirunelly forest, Kozhikode)
- 5 DICHOTOMIINI Halfter & Matthews, 1966**
- 5.1 Delopleurus Erichson, 1847**
- 5.1.1 *Delopleurus cardoni* Paulian, 1934
Jharkhand (Chota Nagpur, Nawatoli Palkot)
- 5.1.2 *Delopleurus parvus* (Sharp), 1875
Odisha (Baripada, Mayurbhanj), Tamil Nadu (Coimbatore), Kerala (Malabar)
- 5.1.3 *Delopleurus striatus* Arrow, 1931
Uttarakhand (Dehradun)
- 5.2 Heliocopris Hope, 1837**
- 5.2.1 *Heliocopris bucephalus* (Fabricius), 1775
Haryana (Kurukshetra, Hissar), Rajasthan (Alwar, Bharatpur, Bhilwara, Bundi, Chittorgarh, Rajsamand, Sahapura), Uttar Pradesh (Kanpur), Madhya Pradesh (Manoti, Mandla, Jabalpur, Singhori Sanctuary), Bihar (Pusa, Chapra), W. Bengal (Kolkata), Maharashtra (Mumbai, Bandra, Melghat Tiger Reserve, Kolkas)
- 5.2.2 *Heliocopris dominus* Bates, 1868
Manipur, Meghalaya (Tura, Garo Hills), Rajasthan (Bhilwara, Chittorgarh, Churu, Jodhpur), Western Ghats
- 5.2.3 *Heliocopris gigas* (Linnaeus), 1758
Punjab (Nangal, Sivalik belt), Haryana (Kurukshetra, Faridabad, Hissar, Bhiwani), Chandigarh, Rajasthan (Ajmer, Alwar, Bharatpur, Bhilwara, Churu, Chittorgarh, Dausa, Jaipur, Jodhpur, Karauli Nagaur, Sawaimadhopur), Uttar Pradesh (Saharanpur, Muzaffar Nagar), Madhya Pradesh (Gwalior, Singhori sanctuary), Bihar (Chapra), Gujarat (Surat, Junagarh), Karnataka (Mysuru, Bengaluru)
- 5.2.4 *Heliocopris midas* (Fabricius), 1775
Mumbai, Chennai, Kolkata, 'India'
- 5.2.5 *Heliocopris tyrannus* (Thomson), 1858
Rajasthan (Banswara, Bhilwara, Chittorgarh, Churu, Dungarpur, Jodhpur)

- 5.3 Parachorius Harold, 1873**
- 5.3.1 *Parachorius globosus* Arrow, 1931
West Bengal (Darjeeling)
- 5.3.2 *Parachorius hookeri* Arrow, 1931
Sikkim
- 5.3.3 *Parachorius thomsoni* Harold, 1873
W.Bengal (Singla, Darjeeling)
- 5.4 Paraphytus Harold, 1877**
- 5.4.1 *Paraphytus andamanus* Arrow, 1931
Andaman Island
- 5.4.2 *Paraphytus hindu* Arrow, 1913
Arunachal Pradesh (Upper Rotung, Abor Country), Meghalaya (Khasi Hills)
- 5.4.3 *Paraphytus ritsemae* (Harold), 1880
'Assam'
- 6 COPRINI Leach, 1815**
- 6.1 Catharsius Hope, 1837**
- 6.1.1 *Catharsius birmanensis* Lansberge, 1874
Punjab (Ludhiana), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Pinjore, Gurgaon, Bhiwani), Rajasthan (Nagaur, Rajsamand), Uttar Pradesh (Mathura, Agra), W. Bengal (Mangpu)
- 6.1.2 *Catharsius capucinus* (Fabricius), 1781
W. Bengal (Berhampur), Bihar (Pusa), Andhra Pradesh (Kakinada), Tamil Nadu (Madurai), Puducherry (Mahe), Kerala (Malabar)
- 6.1.3 *Catharsius etiocles* Castelnau, 1840
'India'
- 6.1.4 *Catharsius granulatus* Sharp, 1875
Uttar Pradesh (Allahabad), Bihar (Chapra), W. Bengal (Mangpu).
- 6.1.5 *Catharsius inermis* (Castelnau), 1840
Haryana (Narnaul, Mohindergarh, Loharu, Bhiwani), Rajasthan (Sikar, Ratangarh, Churu, Bikaner, Sardarsahar, Sahapura Jhunjunu, Jodhpur, Nagaur)
- 6.1.6 *Catharsius javanus* Lansberge, 1886
Asom (Jorhat, Halem)
- 6.1.7 *Catharsius molossus* (Linnaeus), 1758
Himachal Pradesh (Kolar, Sarahan, Simla), Uttarakhand (Dehradun, Almora, Nainital, Malwa Tal), Punjab (Sivalik belt), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest), Rajasthan (Alwar, Barmer, Bharatpur, Bhilwara, Bundi, Chittorgarh, Dholpur, Dungarpur, Jaipur, Jodhpur, Karauli, Sawaimadhopur, Tonk), Uttar Pradesh (Saharanpur, Muzaffur Nagar, Mathura, Agra), Madhya Pradesh (Jabalpur, Singhori Sanctuary, Narsinghpur), Bihar (Pusa, Chapra), W. Bengal (Barrackpur, Bardhaman, Sarda, Sangpu, Soom, Darjeeling, Siliguri), Asom (Cachar, Mangaldai, Jorhat, Halem), Meghalaya (Shillong, Khasi Hills, Tura, Garo Hills), Odisha (Chilka lake), Maharashtra (Bassein Fort, Melghat Tiger Reserve, Kolkas), Karnataka (Belgaum, Bengaluru), Kerala (Kinnavallur), Andaman Is.
- 6.1.8 *Catharsius nathani* Frey, 1956
Rajasthan (Barmer area)
- 6.1.9 *Catharsius pithecius* (Fabricius), 1775
Punjab (Nangal, Ludhiana, Jalandhar), Haryana (Kurukshetra, Kalesar forest, Yamuna Nagar, Hissar, Gurgaon, Faridabad), Chandigarh, Uttarakhand (Dehradun, Haridwar, Rishikesh, Haldwani), Rajasthan (Ajmer, Alwar, Bharatpur, Dausa, Dholpura, Ganganagar, Hanumangarh, Jhunjunu, Karauli, Sahapura), Uttar Pradesh (Saharanpur, Muzaffur Nagar, Bareilly, Agra, Mathura, Varanasi), Madhya Pradesh (Jabalpur, Singhori sanctuary, Mandla, Hoshangabad), Bihar (Pusa, Chapra), Gujarat (Ahmedabad, Kutch, Patan, Mehsana, Surendranagar), Maharashtra (Nagpur), Karnataka (Bengaluru, Yemmiganur), Andhra Pradesh (Kodumur), Tamil Nadu (Coimbatore, Manapparai), Kerala (Paravur)
- 6.1.10 *Catharsius platypus* Sharp, 1875
Rajasthan (Alwar, Barmer, Bharatpur, Dausa, Jaipur, Jaisalmer, Jodhpur, Hanumangarh, Karauli, Rajsamand, Tonk), Gujarat (Jamnagar, Junagarh)
- 6.1.11 *Catharsius sagax* (Quenstedt), 1806
Punjab (Nangal, Ludhiana, Jalandhar), Haryana (Kurukshetra, Yamuna Nagar), Himachal Pradesh (Kolar, Sarahan), Uttarakhand (Dehradun), Rajasthan (Ajmer, Alwar, Banswara, Bharatpur, Bundi, Dausa, Jaipur, Karauli, Tonk), Uttar Pradesh (Mathura, Agra), Madhya Pradesh (Manoti, Gwalior, Mandla, Jabalpur, Singhori sanctuary), Bihar (Pusa, Chapra), W. Bengal (Kolkata, Bardhaman), Gujarat (Rajkot), Maharashtra (Bassein Fort, Melghat Tiger Reserve, Jasida), Tamil Nadu (Nilgiri Hills, Palni Hills), Kerala (Peermade, Tiruchirapalli, Thirunelly forest, 'Travancore')
- 6.2 Copris Geoffroy, 1762**
- 6.2.1 *Copris (Paracopris) andrewesi*
Waterhouse, 1891
Rajasthan (Bharatpur), Madhya Pradesh (Indore, Seoni, Mhow, Korai, Motinala Range, Mandla, Jabalpur), W. Bengal (Berhampur), Maharashtra (Nagpur), Karnataka (Belgaum, Dharwar, Kanara, Bhadravati, Bengaluru)
- 6.2.2 *Copris carinicus* Gillet, 1910
Madhya Pradesh (Mandla), Chhatisgarh (Bilaspur, Chhaparwa, Achanakmar), Meghalaya (Shillong), Manipur
- 6.2.3 *Copris (Paracopris) compressipennis* Gillet, 1910
W. Bengal (Darjeeling), Manipur
- 6.2.4 *Copris corpulentus*, Gillet, 1910
Rajasthan (Barmer, Churu, Jaipur, Jalore, Jodhpur, Jhunjunu, Nagaur, Rajsamand, Sikar), Gujarat

- (Kutch, Junagarh), Arunachal Pradesh (Patkai Hills, Siang, Papumpare, Changlang, Kane)
- 6.2.5 *Copris (Paracopris) cribratus* Gillet, 1927
Rajasthan (Barmer, Bharatpur, Bikaner, Churu, Dausa, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhunjhunu, Jodhpur, Nagaur, Rajsamand, Sikar, Tonk), Gujarat (Banaskantha, Surendranagar), Karnataka (Kalyana Pandal), Tamil Nadu (Anaimalai Hills)
- 6.2.6 *Copris (Paracopris) davisoni* Waterhouse, 1891
Madhya Pradesh (Mandla), Karnataka (Kanara), Tamil Nadu (Nilgiri Hills, Palni Hills), Kerala (Thirunelly forest, Kozhikode)
- 6.2.7 *Copris delicatus* Arrow, 1931
Rajasthan (Jodhpur, Jhunjhunu), Gujarat (Ahmedabad), W. Bengal (Darjeeling, Lopchu), Arunachal Pradesh (Mishmi Hills)
- 6.2.8 *Copris (Paracopris) excisus* Waterhouse, 1891
Punjab (Sivalik belt), 'N India'
- 6.2.9 *Copris fricator fricator* (Fabricius), 1787
Rajasthan (Ajmer, Dausa, Jaipur, Hanumangarh, Karauli, Nagaur, Sikar, Tonk), Gujarat (Kutch), Odisha (Barkuda Is., Chilka Lake), Karnataka (Bengaluru), Kerala (Thiruvananthapuram), Arunachal Pradesh (Siang, Papumpare, Dibang Valley, Tawang, Along, Kane)
- 6.2.10 *Copris (Paracopris) furciceps* Felsche, 1910
Rajasthan (Ajmer, Alwar, Barmer, Bharatpur, Bhilwara, Bikaner, Churu, Dausa, Hanumangarh, Jaisalmer, Jalore, Jhunjhunu, Jodhpur, Karauli, Nagaur, Rajsamand, Sawaimadhopur, Sikar, Tonk), Gujarat (Banaskantha, Kutch, Patan, Surendranagar), Meghalaya (Tura, Garo Hills), Arunachal Pradesh (Patkai Hills)
- 6.2.11 *Copris (Paracopris) imitans* Felsche, 1910
Rajasthan (Chittorgarh), Madhya Pradesh (Indore, Seoni, Mandla, Balaghat, Rewa, Mhow, Jabalpur, Umariya, Shahdol, Singhori sanctuary), Maharashtra (Melghat Tiger Reserve, Tarubanda), Goa, Karnataka (Belgaum, Kanara)
- 6.2.12 *Copris iris* Sharp, 1875
Rajasthan (Dausa, Karauli), 'India'
- 6.2.13 *Copris keralensis* Gill, 1986
Kerala (60 km east of Aluva)
- 6.2.14 *Copris laevigatus* Gillet, 1927
Manipur
- 6.2.15 *Copris magicus* Harold, 1881
W. Bengal (Mangpu, Gopaldhara), Arunachal Pradesh (Siang, Kane, Tawang, Lumla, Zemmithang), Nagaland (Kohima, Naga Hills), Manipur
- 6.2.16 *Copris neglectus* Moxey, 1963
Tamil Nadu (Tiruchirappalli)
- 6.2.17 *Copris numa* Lansberge, 1886
Rajasthan (Ajmer, Alwar, Barmer, Bharatpur, Bikaner, Churu, Dausa, Dholpur, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhunjhunu, Jodhpur, Karauli, Nagaur, Rajsamand, Sawaimadhopur, Sikar, Tonk) Gujarat (Ahmedabad, Banaskantha, Patan, Porbandar, Surendranagar), Arunachal Pradesh (Mishmi Hills)
- 6.2.18 *Copris pedarioides* Lansberge, 1886
Madhya Pradesh
- 6.2.19 *Copris (Paracopris) punctulatus* Wiedemann, 1823
Rajasthan (Ajmer, Jaipur), Arunachal Pradesh (Patkai Hills, Tawang, Namdapha, Changlang, Kane)
- 6.2.20 *Copris (Paracopris) punjabensis* Gillet, 1921
Punjab (Sivalik belt), Haryana (Kalka), Himachal Pradesh (Dunera)
- 6.2.21 *Copris (Paracopris) ramosiceps* Gillet, 1921
'India'
- 6.2.22 *Copris (Microcopris) reflexus* (Fabricius), 1787
'Assam'
- 6.2.23 *Copris repertus* Walker, 1858
Himachal Pradesh (Sarahan, Nahan, Dalhousie), Uttarakhand (Dehradun, Chakrata), Haryana (Kalesar forest), Rajasthan (Alwar, Bharatpur, Bundi, Chittorgarh, Churu, Dausa, Dholpur, Hanumangarh, Jaipur, Jalore, Jhunjhunu, Jodhpur, Karauli, Rajsamand, Sawaimadhopur, Nagaur, Sikar, Tonk), Madhya Pradesh (Indore, Mandla, Mhow, Jaithari Range, Umariya, Rewa, Jabalpur, Bastar, Singhori sanctuary), Chhattisgarh (Jagdalpur, Bastar), Gujarat (Patan, Banaskantha, Kutch, Junagarh, Mahesana, Porbandar), Maharashtra (Nagpur), Bihar (Pusa, Chapra), Karnataka (Belgaum, Dharwar, Bengaluru), Tamil Nadu (Nilgiri Hills, Anaimalai Hills), Puducherry, Kerala (Saple, Palghat, Talipramba, Malabar, Thirunelly forest)
- 6.2.24 *Copris ribbei* Lansberge, 1886
'S. India'
- 6.2.25 *Copris sabinus* Gillet, 1910
Himachal Pradesh (Dalhousie), Uttarakhand (Mussoorie, Chakrata, Almora)
- 6.2.26 *Copris sacontala* Redtenbacher, 1848
Himachal Pradesh (Simla, Dalhousie), Punjab (Sivalik belt), Uttarakhand (Kausani, Almora, Ranikhet), Uttar Pradesh (Allahabad), Arunachal Pradesh (Tawang, Thrillum)
- 6.2.27 *Copris sarpedon* Harold, 1868
Jammu & Kashmir (Udhampur, Batote), Himachal Pradesh (Dalhousie), Punjab (Sivalik belt), Uttarakhand (Mussoorie, Chakrata, Kausani, Almora, Kumaon, Nainital, Ranikhet), Meghalaya (Shillong)
- 6.2.28 *Coprissiangensis* Biswas, 1980
Arunachal Pradesh (Siang, Along, Subansiri, Pasighat, Kane)
- 6.2.29 *Copris (Paracopris) signatus* Walker, 1858
Rajasthan (Dausa), Madhya Pradesh, Maharashtra (Nagpur), Tamil Nadu (Coimbatore),

- Karnataka (Bengaluru), Kerala (Malabar, Kozhikode), Puducherry (Mahe)
- 6.2.30 *Copris sinicus* Hope, 1842
Chhattisgarh (Sarda), Maharashtra (Melghat Tiger Reserve, Tarubanda)
- 6.2.31 *Copris spinator* Harold, 1881
Nicobar Is.
- 6.2.32 *Copris (Paracopris) surdus* Arrow, 1931
Uttarakhand (Kumaon, Haldwani, Chakrata), Madhya Pradesh
- 6.2.33 *Copris (Microcopris) vitalisi* Gillet, 1921
Arunachal Pradesh (Patkai Hills), Manipur
- 6.3 Synopsis Bates, 1868**
- 6.3.1 *Synopsis brahminus* (Hope), 1831
Sikkim (Mangpu), W. Bengal (Darjeeling, Kurseong), Asom, Meghalaya (Shillong, Khasi Hills)
- 6.3.2 *Synopsis gilleti* Arrow, 1931
Sikkim, W. Bengal (Darjeeling, Singla)
- 6.3.3 *Synopsis tridens* Sharp, 1881
Sikkim, W. Bengal (Berhampur), Asom, Meghalaya, Nagaland, Manipur
- 7 ONITINI Laporte, 1840**
- 7.1 Cheironitis Lansberge, 1875**
- 7.1.1 *Cheironitis arrowi* Janssens, 1937
'India N', Madhya Pradesh (Jabalpur, Singhori sanctuary)
- 7.1.2 *Cheironitis indicus* Lansberge, 1875
Haryana (Gurgaon, Hissar, Bhiwani, Narnaul, Mahendragarh), Uttarakhand (Suswa River), Rajasthan (Ajmer, Alwar, Bharatpur, Dholpur, Jaipur, Jhunjhunu, Rajsamand, Sawaimadhopur, Sikar, Sirohi), Gujarat (Jamnagar, Rajkot), Maharashtra (Mumbai), Karnataka (Belgaum), Tamil Nadu (Coimbatore, Madurai)
- 7.2 Onitis Fabricius, 1798**
- 7.2.1 *Onitis assamensis* Biswas, 1980
Asom (Kaziranga National Park)
- 7.2.2 *Onitis brahma* Lansberge, 1875
Madhya Pradesh (Betul, Balaghat, Shahpur, Supkhar, Amarkantak, Singhori sanctuary, Pachmarhi Biosphere Reserve), Rajasthan (Bharatpur, Churu, Jhunjhunu, Jodhpur, Karauli, Sawaimadhopur), Gujarat, Karnataka (Dharwad, Mysuru, Bengaluru)
- 7.2.3 *Onitis castaneus* Redtenbacher, 1848
'Kashmir', Punjab (Sivalik belt), Haryana (Kurukshetra), Uttarakhand (W. Almora, Dehradun), Uttar Pradesh (Kheri forest), Rajasthan (Alwar, Bhilwara, Chittorgarh, Dausa, Jaipur, Jhunjhunu), Gujarat, Madhya Pradesh, Bihar (Pusa), W. Bengal (Sarda), Asom (Baroma), Arunachal Pradesh (Siang, Kane)
- 7.2.4 *Onitis crassus* Sharp, 1875
- Uttarakhand (Suswa River), Punjab (Sivalik belt), Madhya Pradesh (Bargi, Jabalpur)
- 7.2.5 *Onitis excavatus* Arrow, 1931
Himachal Pradesh (Sarahan), Uttarakhand (Haridwar, Rishikesh, Dehradun, Mussoorie), 'Assam'
- 7.2.6 *Onitis falcatus* (Wulfen), 1786
Himachal Pradesh (Kolar, Sarahan), Uttarakhand (Haridwar, Rishikesh, Dehradun, Mussoorie, W. Almora), Rajasthan (Ajmer, Bharatpur, Churu, Dausa, Jaipur, Jalore, Sikar), Madhya Pradesh, Bihar (Pusa), W. Bengal (Darjeeling), Arunachal Pradesh, Gujarat (Kutch), Karnataka (Belgaum), Tamil Nadu (Shevaroy hills), Puducherry (Mahe), Kerala (Malabar)
- 7.2.7 *Onitis feae* Felsche, 1907
Arunachal Pradesh (Siang, Kane)
- 7.2.8 *Onitis humerosus* (Pallas), 1771
Punjab (Sivalik belt)
- 7.2.9 *Onitis lama* Lansberge, 1875
Punjab (Sivalik belt), Haryana (Kurukshetra, Yamuna Nagar), Uttarakhand (Almora), Uttar Pradesh (Agra, Mathura, Sitapur), Rajasthan (Bharatpur, Chittorgarh, Dausa, Jaipur, Jhalawar, Jodhpur, Karauli, Sawaimadhopur), Gujarat (Ahmedabad, Banaskantha, Mahesana, Patan, Rajkot), Maharashtra (Melghat Tiger Reserve, Kolkas)
- 7.2.10 *Onitis lansbergei* Sharp, 1875
'India N'
- 7.2.11 *Onitis philemon* Fabricius, 1801
Punjab (Nangal, Ludhiana, Jalandhar, Sivalik belt), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Gurgaon, Faridabad, Hissar, Bhiwani, Narnaul), Chandigarh, Uttarakhand (Dehradun, W. Almora), Rajasthan (Ajmer, Alwar, Barmer, Bharatpur, Bhilwara, Bundi, Chittorgarh, Dausa, Jaipur, Jodhpur, Jhunjhunu, Karauli, Nagaur, Rajsamand, Sawaimadhopur, Sikar, Tonk), Uttar Pradesh (Saharanpur, Muzaffar Nagar, Agra, Mathura), Madhya Pradesh (Hoshangabad, Indore, Bastar, Mhow, Jabalpur, Singhori sanctuary), Bihar (Pusa, Chapra), W. Bengal (Sarda), Arunachal Pradesh, Gujarat (Banaskantha, Junagarh, Kutch, Patan, Porbandar, Rajkot, Surendranagar, Vadodara), Maharashtra (Nagpur, Melghat Tiger Reserve, Semadoh), Karnataka (Belgaum, Mysuru, Bengaluru), Tamil Nadu (Coimbatore), Kerala (Nilambur)
- 7.2.12 *Onitis punctatostratus* Janssens, 1937
W. Bengal (Darjeeling)
- 7.2.13 *Onitis singhalensis* Lansberge, 1875
Rajasthan (Ajmer, Alwar, Dausa, Rajsamand, Sikar), Karnataka (Coorg), Tamil Nadu (Nilgiri Hills, Yercaud)
- 7.2.14 *Onitis siva* Gillet, 1911

Rajasthan (Alwar, Bharatpur, Dausa, Jaipur, Jhunjhunu, Sikar), Gujarat (Banaskantha), Tamil Nadu (Nilgiri Hills), Kerala ('Travancore'), Arunachal Pradesh

7.2.15 *Onitis subopacus* Arrow, 1931

Jammu & Kashmir (Haran, Sindh valley, Harwan, Pohru valley), Himachal Pradesh (Kolar), Uttarakhand (Haridwar, Rishikesh, Jhajra, Dehradun), Punjab (Nangal, Ludhiana, Jalandhar), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Gurgaon, Hissar, Bhiwani, Narnaul), Rajasthan (Jhunjhunu), Uttar Pradesh (Saharanpur, Muzaffarnagar), Madhya Pradesh (Baihar, Supkhar, Mandla, Balaghat, Rewa, Jabalpur), Bihar (Pusa), W. Bengal (Kolkata, Singla), Arunachal Pradesh (Siang, Kane), Maharashtra (Melghat Tiger Reserve, Semadoh), Tamil Nadu (Anaimalai Hills), Kerala (Thirunelly forest)

7.2.16 *Onitis virens* Lansberge, 1875

Punjab (Nangal, Ludhiana), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Faridabad), Chandigarh, Uttarakhand (Haridwar, Rishikesh, Dehradun), Uttar Pradesh (Agra, Mathura), Rajasthan (Dausa, Jhunjhunu, Rajsamand, Sikar), Madhya Pradesh (Supkhar, Balaghat, Bastar), Chhattisgarh (Karli, Bastar), Bihar (Pusa), W. Bengal (Kolkata), Maharashtra (Chikalda Berar, Nawegaon, Bhandara), Karnataka (Belgaum, Sonawarpet, Coorg), Tamil Nadu (Nilgiri Hills, Anaimalai Hills), Kerala (Peermade, 'Travancore', Thirunelly forest)

8 ONITICELLINI Kolbe, 1905

8.1 *Euoniticellus* Janssens, 1953

8.1.1 *Euoniticellus pallipes* (Fabricius), 1781

J & K (Hutmara, Lidar valley), Himachal Pradesh (Sarahan, Kolar, Una), Uttarakhand (Arakot, Chakrata, Jhajra, Suswa river, Dehradun, Almora, Nainital), Punjab (Nangal), Chandigarh, Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Gurgaon, Hissar, Narnaul, Bhiwani), Rajasthan (Ajmer, Alwar, Bharatpur, Jaipur, Jodhpur, Hanumangarh, Rajsamand, Sahapura, Sawaimadhopur), Uttar Pradesh (Ghazipur, Sitapur, Faizabad, Agra, Mathura), W. Bengal (Kolkata), Gujarat (Banaskantha, Jamnagar, Patan, Porbandar), Maharashtra (Mumbai), Tamil Nadu (Chennai, Kodaikanal), Kerala (Nilambur)

8.1.2 *Euoniticellus pallens* (Olivier), 1789

Himachal Pradesh (Sarahan, Kolar), Uttarakhand (Dehradun, Haridwar), Uttar Pradesh (Agra, Mathura), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Karnal, Gurgaon, Hissar, Narnaul,

Bhiwani), Chandigarh, Rajasthan (Alwar, Bharatpur, Hanumangarh, Jaipur, Sahapura), Gujarat (Kutch)

8.2 *Oniticellus* Dejean, 1821

8.2.1 *Oniticellus cinctus* (Fabricius), 1775

'Kashmir', Himachal Pradesh (Nahan, Sarahan), Uttarakhand (Dehradun, Haridwar, Rishikesh, Mussoorie, Almora, Nainital), Haryana (Kalesar forest), Rajasthan (Banswara, Chittorgarh, Jodhpur, Pali, Nagaur), Madhya Pradesh (Amarkantak, Rewa, Jabalpur, Hoshangabad, Shahdol, Singhori sanctuary), W. Bengal (Kolkata, Sukna, Singla), Asom (Haflong), Arunachal Pradesh, Gujarat (Junagarh, Patan), Maharashtra (Nagpur), Karnataka (Mysuru), Tamil Nadu (Nilgiri Hills), Kerala (Thirunelly forest, Kozhikode)

8.2.2 *Oniticellus gayeni* Biswas & Chatterjee, 1985
Arunachal Pradesh

8.2.3 *Oniticellus namdaphaensis* Biswas & Chatterjee, 1985
Arunachal Pradesh

8.2.4 *Oniticellus subhendui* Biswas & Chatterjee, 1985
Arunachal Pradesh

8.3 *Tiniocellus* Péringuey, 1900

8.3.1 *Tiniocellus imbellis* (Bates), 1891
'India E'

8.3.2 *Tiniocellus spinipes* (Roth), 1851
'Kashmir', Himachal Pradesh (Sarahan, Kolar, Kangra), Punjab (Sivalik belt), Haryana (Kurukshetra, Kalka, Pinjore, Kalesar forest), Rajasthan (Jalore, Rajsamand), Uttarakhand (Haridwar, Rishikesh, Srinagar, Dehradun, Mussoorie, Almora), Uttar Pradesh (Sitapur), Madhya Pradesh (Amarkantak, Umaria, Rewa, Jabalpur, Shahdol, Singhori sanctuary), Gujarat (Junagarh), Maharashtra (Nagpur, Melghat Tiger Reserve, Belkund), Karnataka (Belgaum), Kerala (Kozhikode, Nilambur)

8.4 *Liatongus* Reitter, 1893

8.4.1 *Liatongus affinis* (Arrow), 1908
W. Bengal (Singla, Darjeeling), Manipur

8.4.2 *Liatongus davidi* (Boucomont), 1919
'India'

8.4.3 *Liatongus gaganinus* (Hope), 1831
'Kashmir', Uttarakhand (Dehradun, Chakrata, Mussoorie, Mukteshwar, Almora), Sikkim (Gangtok), W. Bengal (Kurseong), Asom (Haflong), Meghalaya (Shillong), Arunachal Pradesh (Tawang, Thrillum), Nagaland (Naga hills)

8.4.4 *Liatongus indicus* (Arrow), 1908
Tamil Nadu (Nilgiri Hills, Anaimalai Hills), Kerala (Thirunelly forest)

8.4.5 *Liatongus martialis* (Harold), 1879
Rajasthan (Sawaimadhopur), Gujarat

- 8.4.6 *Liatongus medius* (Fairmaire), 1889
'Kashmir', 'Assam'
- 8.4.7 *Liatongus mergacerus* (Hope), 1831
'Kashmir', Uttarakhand (W. Almora, Ranikhet),
W. Bengal (Kalimpong, Maria Basti,
Gopaldhara, Sukna, Singla)
- 8.4.8 *Liatongus minutus* (Motschulsky), 1860
'India'
- 8.4.9 *Liatongus phanaeoides* (Westwood), 1839
Himachal Pradesh (Dalhousie, Dunera, Kalpa,
Nihar, Punjab (Sivalik belt), Uttarakhand
(Dehradun, Mussoorie, Chakrata, Kausani,
Joshimath, Badrinath, Kedarnath), W. Bengal
(Kolkata), Arunachal Pradesh (Tawang, Lumla)
- 8.4.10 *Liatongus rhadamistus* (Fabricius), 1775
Madhya Pradesh (Balaghat, Jaithari Range,
Umaria, Dhanpuri, Rewa, Koilari, Khetgaon,
Supkhar, Hoshangabad, Tokapur, Pachmarhi Bio
Res.), Maharashtra (Nagpur), Tamil Nadu
(Coimbatore)
- 8.4.11 *Liatongus rhinoceros* Arrow, 1931
Himachal Pradesh (Simla), Punjab (Sivalik belt),
W. Bengal (Kurseong)
- 8.4.12 *Liatongus triacanthus* Boucomont, 1920
West Bengal (Darjeeling), Sikkim
- 8.4.13 *Liatongus vertagus* (Fabricius), 1798
Uttarakhand (Kausani, Nainital), Arunachal
Pradesh (Tawang), Asom (Cachar), Manipur
- 8.5 *Eodrepanus Barbero, Palestrini & Roggero, 2009***
- 8.5.1 *Eodrepanus striatulus* (Paulian), 1945
'NE India'
- 8.6 *Sinodrepanus Simonis, 1985***
- 8.6.1 *Sinodrepanus falsus* (Sharp), 1875
Rajasthan (Alwar, Sawaimadhopur), Gujarat
(Junagarh, Patan, Porbandar, Rajkot,
Surendranagar), Arunachal Pradesh (Patkai
Hills)
- 8.7 *Tibiodrepanus Krikken, 2009***
- 8.7.1 *Tibiodrepanus hircus* (Wiedemann), 1823
'India'
- 8.7.2 *Tibiodrepanus kazirangensis* (Biswas), 1980
Asom (Kaziranga)
- 8.7.3 *Tibiodrepanus setosus* (Wiedemann), 1823
Himachal Pradesh (Kolar, Nahan, Sarahan),
Haryana (Panchkula, Kalka, Pinjore, Kalesar
forest), Uttarakhand (Dehradun, Haridwar,
Rishikesh, Almora, Kumaon, Haldwani), Madhya
Pradesh (Amarkantak, Jaithari Range, Umaria,
Rewa, Jabalpur, Bastar, Shahdole, Singhori
sanctuary), Maharashtra (Nagpur), Kerala
(Nilambur, Thirunelly forest, Kozhikode)
- 8.7.4 *Tibiodrepanus sinicus* (Harold), 1868
Uttarakhand (Rishikesh, Mussoorie, Almora,
Kumaon, Suswa River), Madhya Pradesh,
Gujarat (Junagarh, Rajkot)
- 8.8 *Ixodina Roth, 1851***
- 8.8.1 *Ixodina runica* (Arrow), 1909
Gujarat (Junagarh)
- 9. ONTHOPHAGINI Burmeister, 1846**
- 9.1 *Anoctus Sharp, 1875***
- 9.1.1 *Anoctus myrmecophilus* (Arrow), 1907
Tamil Nadu (Nilgiri Hills)
- 9.2 *Caccobius Thomson, 1859***
- 9.2.1 *Caccobius (Caccophilus) aterrimus* (Fabricius),
1798
Uttar Pradesh (Agra), Rajasthan (Bharatpur),
Maharashtra (Nagpur), Andhra Pradesh
(Chipurupalli, Kakinada), Kerala (Kozhikode),
Puducherry (Mahe)
- 9.2.2 *Caccobius denticollis* Harold, 1867
Jammu & Kashmir (Pahalgam, Lidar Valley,
Dardpur, Khurama, Lolab Valley), Punjab (Sivalik
belt), Himachal Pradesh (Dalhousie, Kalpa, Nihar,
Kulu, Kangra, Kotgarh, Simla), Uttarakhand
(Kausani, Chakrata, Mussoorie, Pindar valley,
Almora), Rajasthan (Alwar, Dausa, Jodhpur,
Jhunjhunu, Pali, Sikar), Gujarat (Junagarh)
- 9.2.3 *Caccobius devagiriensis* Nithya & Sabu, 2013
Kerala
- 9.2.4 *Caccobius (Caccophilus) diminutivus* (Walker),
1858
Haryana (Kurukshetra, Kalesar forest),
Uttarakhand (Haridwar, Dehradun), W. Bengal
(Singla, Kolkata), Gujarat (Rajkot), Maharashtra
(Nagpur)
- 9.2.5 *Caccobius (Caccophilus) gallinus* Arrow, 1907
Tamil Nadu (Nilgiri Hills), Kerala (Thirunelly
forest)
- 9.2.6 *Caccobius (Caccophilus) gilleti* Balthasar, 1933
'India'
- 9.2.7 *Caccobius gonoderus* (Fairmaire), 1888
Meghalaya (Shillong), Manipur
- 9.2.8 *Caccobius (Caccophilus) himalayanus* (Jekel),
1872
Jammu & Kashmir (Lidarwat, Gulmarg, Pahalgam,
Lidar Valley, Dardpur, Lolab Valley, Hardwan,
Pohru Valley, Batote), Punjab (Sivalik belt),
Himachal Pradesh (Kalpa, Dalhousie, Kotgarh,
Simla Hills, Kulu), Uttarakhand (Kanasar),
Rajasthan (Churu)
- 9.2.9 *Caccobius (Caccophilus) indicus* Harold, 1867
Uttarakhand (Dehradun), Haryana (Kalesar
forest), Rajasthan (Alwar, Barmer, Jaisalmer,
Jhunjhunu, Jodhpur, Nagaur, Rajsamand),
Gujarat (Junagarh), Karnataka (Bengaluru), Tamil
Nadu (Nilgiri Hills)
- 9.2.10 *Caccobius (Caccophilus) meridionalis*
Boucomont, 1914
Rajasthan (Jaisalmer, Jodhpur), Gujarat
(Junagarh), Maharashtra (Nagpur), Karnataka
(Dharwar, Bengaluru), Tamil Nadu (Nilgiri Hills,

- Anaimalai Hills), Kerala (Malabar, Thirunelly forest, Kozhikode), Puducherry (Mahe)
- 9.2.11 *Caccobius pantherinus* Arrow, 1931
Punjab (Sivalik belt), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest), Rajasthan (Alwar, Barmer, Churu, Jaisalmer, Jalore, Jodhpur), Gujarat (Banaskantha, Mahesana, Porbandar)
- 9.2.12 *Caccobius rufipennis* (Motschulsky), 1858
'India'
- 9.2.13 *Caccobius (Caccophilus) torticornis* Arrow, 1931
Uttarakhand (Dehradun, Kali Valley, Almora), Rajasthan (Ajmer, Barmer, Churu, Jalore, Jaisalmer, Jhunjhunu, Jodhpur), Gujarat (Porbandar)
- 9.2.14 *Caccobius (Caccophilus) tortus* Sharp, 1875
'India'
- 9.2.15 *Caccobius (Caccophilus) ultor* (Sharp), 1875
Punjab (Nangal, Ludhiana, Jalandhar), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Panipat, Jind, Hissar, Sirsa, Gurgaon, Bhiwani), Himachal Pradesh (Kolar), Uttarakhand (Haridwar, Rishikesh, Dehradun, Haldwani), Uttar Pradesh (Saharanpur, Muzaffarnagar, Agra, Mathura), Madhya Pradesh (Jabalpur), Rajasthan (Alwar, Jaipur, Karauli, Tonk), Maharashtra (Khandesh)
- 9.2.16 *Caccobius (Caccophilus) unicornis* (Fabricius), 1798
Uttarakhand (Mussoorie), Rajasthan (Barmer), Uttar Pradesh (Mohand Rauli, Faizabad), Madhya Pradesh (Motinala Range, Mandla, Jabalpur, Hoshangabad), Asom (Haflong, Cachar, Sadiya), Kerala (Thirunelly forest)
- 9.2.17 *Caccobius (Caccophilus) vulcanus* (Fabricius), 1801
Punjab (Nangal, Ludhiana, Jalandhar), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Panipat, Jind, Hissar, Sirsa, Bhiwani, Gurgaon), Himachal Pradesh (Kolar), Uttarakhand (Haridwar, Rishikesh, Dehradun, Haldwani), Rajasthan (Alwar, Jaipur, Bharatpur, Tonk), Uttar Pradesh (Saharanpur, Muzaffarnagar, Agra, Mathura), Bihar (Pusa), Gujarat (Banaskantha, Mahesana, Porbandar, Rajkot), Maharashtra (Nagpur), Karnataka (Bengaluru), Kerala (Kozhikode)
- 9.3 *Cassolus* Sharp, 1875**
- 9.3.1 *Cassolus humeralis* Arrow, 1907
Arunachal Pradesh (Patkai Hills), Asom (Sadiya), W. Bengal (Gopaldhara, Rungbong Valley), Tamil Nadu (Nilgiri Hills, Chennai), Kerala (Sappal, Palghat)
- 9.4 *Cleptocaccobius* Cambefort, 1984**
- 9.4.1 *Cleptocaccobius arrowi* Cambefort, 1985
'Bombay', Karnataka (Bengaluru)
- 9.4.2 *Cleptocaccobius boucomonti* Cambefort, 1985
Uttar Pradesh
- 9.4.3 *Cleptocaccobius inermis* (Arrow), 1931
Uttarakhand (Dehradun, W. Almora, Kumaon), Haryana (Kalesar forest), Uttar Pradesh (Faizabad), W. Bengal (Pedong, Kolkata), Gujarat (Ahmedabad, Mahesana), Maharashtra (Nagpur)
- 9.4.4 *Cleptocaccobius khatimae* Cambefort, 1985
Uttar Pradesh
- 9.4.5 *Cleptocaccobius simplex* (Boucomont), 1923
'Assam'
- 9.5 *Digitonthophagus* Balthasar, 1959**
- 9.5.1 *Digitonthophagus gazella* (Fabricius), 1787
Himachal Pradesh (Nahan), Uttarakhand (Haridwar, Rishikesh, Haldwani), Punjab (Jalandhar, Ludhiana, Nangal, Sivalik belt), Chandigarh, Haryana (Kurukshetra, Yamuna Nagar, Panipat, Jind, Hissar, Sirsa, Bhiwani, Narnaul, Gurgaon, Faridabad), Delhi, Rajasthan (Alwar, Ajmer, Barmer, Bharatpur, Bhilwara, Bikaner, Bundi, Churu, Dausa, Dholpur, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhunjhunu, Jodhpur, Karauli, Nagaur, Rajsamand, Sawaimadhopur, Sikar, Sriganganagar, Tonk), Uttar Pradesh (Saharanpur, Muzaffar Nagar, Agra, Mathura), Madhya Pradesh (Indore, Balaghat, Betul, Darakoh, Baihar, Mhow, Jabalpur, Singhori sanctuary), Gujarat (Ahmedabad, Banaskantha, Jamnagar, Junagarh, Kutch, Mahesana, Porbandar, Rajkot, Surendranagar, Vadodara), Maharashtra (Khandesh, Nagpur, Melghat Tiger Reserve, Chourakund) Karnataka (Belgaum), Tamil Nadu (Tiruchirappalli, Madurai), Arunachal Pradesh
- 9.5.2 *Digitonthophagus bonasus* (Fabricius), 1775
'Kashmir', Himachal Pradesh (Nahan), Uttarakhand (Haridwar, Rishikesh, Dehradun, Haldwani, Kumaon), Punjab (Jalandhar, Ludhiana, Sivalik belt), Chandigarh, Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Karnal, Jind, Hissar, Bhiwani, Narnaul, Gurgaon), Delhi, Rajasthan (Ajmer, Bharatpur, Alwar, Dholpur, Sikar, Bikaner, Jaipur, Barmer, Churu, Hanumangarh, Jaisalmer, Jalore, Jhunjhunu, Jodhpur, Nagaur, Pali, Sirohi, Sriganganagar), Uttar Pradesh (Saharanpur, Agra, Mathura, Kheri forest), Madhya Pradesh (Betul, Balaghat, Darakoh, Baihar) W. Bengal (Sarda, Kolkata), Arunachal Pradesh, Gujarat (Banaskantha, Kutch), Maharashtra (Nagpur), Karnataka (Belgaum, Bhadravati, Shimoga), Tamil Nadu (Tiruchirappalli)
- 9.6 *Disphysema* Harold, 1873**
- 9.6.1 *Disphysema candezei* Harold, 1873
Rajasthan (Karauli, Sawaimadhopur), Tamil Nadu (Coimbatore)
- 9.7 *Haroldius* Boucomont, 1914**

- 9.7.1 *Haroldius annandalai* (Silvestri), 1924
Odisha (Barkuda Island, Chilka Lake), Karnataka (Bengaluru, Chikmagalur), Tamil Nadu (Coimbatore)
- 9.7.2 *Haroldius cardoni* Boucomont, 1923
Jharkhand (Chota Nagpur, Nawatoli)
- 9.7.3 *Haroldius heimi* (Wasmann), 1918
Maharashtra (Wallon, Ahmednagar dist.)
- 9.7.4 *Haroldius stevensi* Arrow, 1931
W. Bengal (Gopaldhara, Rungbong valley, Darjeeling Dist.), 'Assam'
- 9.8 *Onthophagus Latreille, 1802***
- 9.8.1 *Onthophagus abacus* Boucomont, 1921
Uttar Pradesh (Banki, Gorakhpur), W. Bengal (Raniganj), Maharashtra (Nagpur), Odisha (Chhatrapur), Tamil Nadu (Kovilpatti), Puducherry (Mahe)
- 9.8.2 *Onthophagus abreui* Arrow, 1931
Uttarakhand (Dehradun, Haldwani), Haryana (Kalesar forest), Madhya Pradesh (Betul, Seoni, Dharakoh, Pench valley), Maharashtra (Melghat Tiger Reserve, Chaurakund), Kerala (Malabar)
- 9.8.3 *Onthophagus (Colobonthophagus) aenescens* (Wiedeman), 1823
Himachal Pradesh (Una), Uttarakhand (Dehradun), Uttar Pradesh (Faizabad), Bihar (Chapra, Pusa), W. Bengal (Purnea dist., Kolkata)
- 9.8.4 *Onthophagus (Indachorius) aereopictus* Boucomont, 1914
'India'
- 9.8.5 *Onthophagus agaricophilus* Arrow, 1931
Uttarakhand (Ranikhet, W. Almora, Mussoorie)
- 9.8.6 *Onthophagus (Colobonthophagus) agnus* Gillet, 1925
Rajasthan (Jodhpur, Sawaimadhopur, Sikar), Madhya Pradesh (Indore, Seoni, Mhow, Korai), Jharkhand (Chota Nagpur, Ranchi), W. Bengal (Kolkata, Berhampur), Gujarat, Maharashtra (Nagpur), Karnataka (Kanara)
- 9.8.7 *Onthophagus (Furconthophagus) amicus* Gillet, 1925
Uttarakhand (Haldwani, Almora, Kumaon, Dhaulti Ganga Valley, Dehradun), W. Bengal (Gopaldhara, Rungbong Valley), Nagaland (Naga Hills)
- 9.8.8 *Onthophagus amphicoma* Boucomont, 1914
Tamil Nadu (Nilgiri Hills), Kerala (Malabar, 'Travancore'), Puducherry (Mahe)
- 9.8.9 *Onthophagus amphinasus* Arrow, 1931
Maharashtra (Talewadi), Karnataka (Kanara), Tamil Nadu (Nilgiri Hills)
- 9.8.10 *Onthophagus amphioxus* Arrow, 1933
Karnataka (Chikkaballapur), Tamil Nadu (Madurai)
- 9.8.11 *Onthophagus anaimalaiensis* Balthasar, 1974
Tamil Nadu (Anaimalai Hills)
- 9.8.12 *Onthophagus andrewesi* Arrow, 1931
Karnataka (Kanara), Tamil Nadu (Nilgiri Hills, Anaimalai Hills), Kerala (Thirunelley forest)
- 9.8.13 *Onthophagus (Sunenaga) anguliceps* Boucomont, 1914
Meghalaya (Garo Hills, above Tura)
- 9.8.14 *Onthophagus arboreus* Arrow, 1931
Uttarakhand (Dehradun), Bihar (Pusa), Karnataka (Sagar)
- 9.8.15 *Onthophagus armatus* Blanchard, 1853
Rajasthan (Sikar), Gujarat (Porbandar), Asom (Cachar), Arunachal Pradesh
- 9.8.16 *Onthophagus arunachalensis* Biswas & Chatterjee, 1985
Arunachal Pradesh
- 9.8.17 *Onthophagus (Colobonthophagus) arunensis* Scheuern, 1995
West Bengal (Darjeeling)
- 9.8.18 *Onthophagus (Serrophorus) atropolitus* D'Orbigny, 1902
Himachal Pradesh (Nahan, Sarahan, Dunera), Haryana (Kalesar forest), Rajasthan (Karauli), Uttarakhand (Dehradun), W. Bengal (Gopaldhara, Rungbong Valley, Singla), Meghalaya (Nongpoh, Khasi Hills)
- 9.8.19 *Onthophagus aviculus* Arrow, 1931
W. Bengal (Singla, Tukwar, Teesta Valley)
- 9.8.20 *Onthophagus avocetta* Arrow, 1933
'Assam'
- 9.8.21 *Onthophagus balawaicus* Scheuern, 1995
W. Bengal (Balawa Khani, Darjeeling Dist.)
- 9.8.22 *Onthophagus besoni* Arrow, 1931
Uttarakhand (Haldwani, Kumaon, Dehradun), Bihar (Buxar)
- 9.8.23 *Onthophagus (Colobonthophagus) bengalensis* Harold, 1886
Haryana (Kurukshetra), Uttarakhand (Dehradun), Rajasthan (Dholpur), Tamil Nadu (Nilgiri Hills)
- 9.8.24 *Onthophagus bengali* Gordon & Oppenheimer, 1977
W. Bengal (Singur, Burasanti)
- 9.8.25 *Onthophagus biexcavatus* D'Orbigny, 1898
'India'
- 9.8.26 *Onthophagus (Paraphanaeomorphus) bifasciatus* Fabricius, 1781
Haryana (Kurukshetra, Yamuna Nagar), Uttarakhand (Dehradun), Bihar (Pusa), Jharkhand (Ranchi), W. Bengal (Gopaldhara, Rungbong Valley, Ghumti, Kolkata, Howrah), Meghalaya (Nongpoh, Khasi Hills), Karnataka (Belgaum), Tamil Nadu (Nilgiri Hills), Kerala (Kozhikode)
- 9.8.27 *Onthophagus bisectus* Arrow, 1931
Tamil Nadu (Nilgiri Hills, Snowdon Peak)
- 9.8.28 *Onthophagus brevicollis* Arrow, 1907
Madhya Pradesh (Balaghat), Chhattisgarh

- (Raigarh), Karnataka (Bengaluru), Tamil Nadu (Nilgiri Hills)
- 9.8.29 *Onthophagus bronzeus* Arrow, 1907
Karnataka (Castle Rock), Tamil Nadu (Nilgiri Hills), Kerala (Thirunelly forest)
- 9.8.30 *Onthophagus brutus* Arrow, 1931
W. Bengal (Sarda), Kerala (Thirunelly forest)
- 9.8.31 *Onthophagus caesariatus* Boucomont, 1921
Kerala (Malabar)
- 9.8.32 *Onthophagus carinensis* Boucomont, 1914
Rajasthan (Jaipur)
- 9.8.33 *Onthophagus castetsi* Lansberge, 1887
Tamil Nadu (Palni Hills, Kodaikanal, Shenbaganur, Madurai), Kerala (Thiruvananthapuram, 'Travancore', Thirunelly forest)
- 9.8.34 *Onthophagus (Micronthophagus) cavia* Boucomont, 1914
'Bombay', Tamil Nadu (Nilgiri Hills, Coonoor), Kerala ('Travancore', Wallardi)
- 9.8.35 *Onthophagus centricornis* (Fabricius), 1798
'Kashmir', Himachal Pradesh (Una), Haryana (Kalesar forest, Kurukshetra), Rajasthan (Alwar, Karauli), Uttarakhand (Haridwar, Rishikesh, Dehradun), Madhya Pradesh (Balaghat), Chhattisgarh (Raigarh), Arunachal Pradesh, Maharashtra (Nagpur), Karnataka (Belgaum, Kanara), Tamil Nadu (Nilgiri Hills), Kerala (Kozhikode)
- 9.8.36 *Onthophagus cervus* (Fabricius), 1798
Uttarakhand (Dehradun), Rajasthan (Sawaimadhopur), Madhya Pradesh (Balaghat, Jaithari Range, Umaria, Rewa, Satna, Jabalpur, Singhori sanctuary), W. Bengal (Kolkata), Arunachal Pradesh, Gujarat (Banaskantha, Porbandar), Maharashtra (Pune), Karnataka (Belgaum, Kanara), Tamil Nadu (Nilgiri Hills, Coimbatore), Kerala (Kozhikode, Thirunelly forest), Puducherry, Andaman & Nicobar (Bonington)
- 9.8.37 *Onthophagus chrysurus* Arrow, 1931
Asom (Haflong, Cachar Hills)
- 9.8.38 *Onthophagus circulifer* Arrow, 1931
Jammu & Kashmir (Ramban, Chenab Valley), Punjab (Sivalik belt), Haryana (Kalesar forest), Uttarakhand (Dehradun, Jhajra Range), Uttar Pradesh (Mohand Rauli, Siwalik Hills), W. Bengal (Pedong, Singla, Soom), Meghalaya (Shilong), Maharashtra (Nagpur)
- 9.8.39 *Onthophagus coeruleicollis* Arrow, 1907
Karnataka (Belgaum, Dharwar)
- 9.8.40 *Onthophagus compactus* Arrow, 1931
Haryana (Kalesar forest), Uttarakhand (Dehradun, Kumaon, Haldwani)
- 9.8.41 *Onthophagus (Altonthophagus) concolor* Sharp, 1878
Jammu & Kashmir (Batote, Udhampur, Ferozepur Nallah, Shah Pora (Gogaldara), Gulmarg, Khilanmarg, Harwan, Pohru Valley, Afan, Dardpur, Putshai, Nagmarg, Lolab Valley; Hutmara, Pahalgam, Aru, Liderwat, Liddar Valley), Himachal Pradesh (Simla, Kotgarh, Kangra Valley), Punjab (Sivalik belt), Uttarakhand (Konain, Bodyar, Deoban, Chakrata), Rajasthan (Hanumangarh)
- 9.8.42 *Onthophagus concursator* Balthasar, 1961
Himachal Pradesh (Poo, Kinnaur, Satluj Valley)
- 9.8.43 *Onthophagus coorgensis* Arrow, 1931
Tamil Nadu (Nilgiri Hills), Kerala (Sappal, Palghat, Malabar)
- 9.8.44 *Onthophagus (Onthophagiellus) crassicollis* Boucomont, 1913
Rajasthan (Bharatpur), Arunachal Pradesh
- 9.8.45 *Onthophagus (Altonthophagus) cupreiceps* Arrow, 1907
Sikkim (Khamba Jong, Tungu, Teesta Valley)
- 9.8.46 *Onthophagus (Colobonthophagus) dama* Fabricius, 1798
Himachal Pradesh (Kolar, Nahan, Una, Sarahan), Punjab (Nangal), Chandigarh, Haryana (Kalesar forest, Kurukshetra), Uttarakhand (Dehradun, Jhajra Range, Almora, Kumaon, Haldwani), Uttar Pradesh (Muzaffar Nagar), Madhya Pradesh (Balaghat, Jabalpur, Singhori sanctuary), Bihar (Pusa), W. Bengal (Gopaldhara, Rungbong Valley, Singla, Kolkata), Madhya Pradesh (Supkhar, Balaghat), Maharashtra (Nagpur, Pune, Melghat Tiger Reserve, Kolkas), Karnataka (Belgaum, Kanara, Bengaluru), Tamil Nadu (Anaimalai Hills, Nilgiri Hills), Kerala (Nilambur, Kozhikode)
- 9.8.47 *Onthophagus deccanensis* Frey, 1962
Maharashtra (Ahmednagar)
- 9.8.48 *Onthophagus deflexicollis* Lansberge, 1883
Uttarakhand (Haldwani, Kumaon), W. Bengal (Gopaldhara, Rangbong Valley, Singla), Asom (Guwahati), Meghalaya (Tura, Garo Hills)
- 9.8.49 *Onthophagus devagiriensis* Schoolmeesters & Thomas, 2006
Kerala (Thirunelly forest, Wayanad dist.)
- 9.8.50 *Onthophagus diabolicus* Harold, 1877
'India'
- 9.8.51 *Onthophagus (Colobonthophagus) difficilis* Walker, 1858
Rajasthan (Karauli), Tamil Nadu (Kodaikanal)
- 9.8.52 *Onthophagus (Sunenaga) digitatus* Arrow, 1931
Sikkim, Rajasthan (Tonk)
- 9.8.53 *Onthophagus discidens* Sharp, 1875
W. Bengal (Singla, Darjeeling dist.)
- 9.8.54 *Onthophagus dubernardi* Boucomont, 1914
'Kashmir', Himachal Pradesh (Nuchar), W. Bengal (Gopaldhara, Rungbong Valley)
- 9.8.55 *Onthophagus (Gibbonthophagus) duporti* Boucomont, 1914

- Himachal Pradesh (Sarahan), Haryana (Kurukshetra, Kalesar forest), Uttarakhand (Dehradun), Uttar Pradesh (Saharanpur), Madhya Pradesh (Singhori sanctuary), Bihar (Pusa, Chapra), Karnataka (Kanara), Tamil Nadu (Nilgiri Hills), Kerala (Kozhikode)
- 9.8.56 *Onthophagus (Trichonthophagus) dynastoides* Arrow, 1931
Rajasthan (Jhunjhunu), Gujarat (Banaskantha), 'N India'
- 9.8.57 *Onthophagus elongatus* Frey, 1954
Tamil Nadu (Kodaikanal), Kerala (Thirunelly forest)
- 9.8.58 *Onthophagus ensifer* Boucomont, 1914
Rajasthan (Alwar, Bharatpur, Dausa, Dholpur, Bikaner, Hanumangarh, Jaipur, Jodhpur, Jhunjhunu, Karauli, Kota, Sawaimadhopur, Sikar, Nagaur), Gujarat (Mahesana, Surendranagar), Tamil Nadu (Nilgiri Hills, Sims Park, Coonoor, Kodaikanal, Palni Hills, Shenbaganur, Anaimalai Hills), Kerala (Thirunelly forest, Kozhikode), Arunachal Pradesh
- 9.8.59 *Onthophagus (Colobonthophagus) ephippioderus* Arrow, 1907
Rajasthan (Sirohi), Gujarat, Karnataka (Belgaum, Kanara, Chikmagalur, Bengaluru), Tamil Nadu (Nilgiri Hills)
- 9.8.60 *Onthophagus expansicornis* Bates, 1891
Himachal Pradesh (Dalhousie, Nahan, Sarahan, Nichar, Kalpa, Dunera, Solan), Punjab (Sivalik belt), Uttarakhand (Mussoorie)
- 9.8.61 *Onthophagus exquisitus* Arrow, 1931
Uttarakhand (Dehradun), W. Bengal (Singla, Darjeeling dist.)
- 9.8.62 *Onthophagus falcifer* Harold, 1880
Sikkim (Lachen), W. Bengal (Mangpu, Lopchu, Darjeeling dist.)
- 9.8.63 *Onthophagus falsus* Gillet, 1925
Jammu & Kashmir (Sonamarg), Himachal Pradesh (Sarahan, Kolar, Dunera, Una), Uttarakhand (Haridwar, Rishikesh, Dehradun, Haldwani), Punjab (Nangal), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Karnal, Panipat, Jind, Hissar, Sirsa, Narnaul, Bhiwani), Delhi, Rajasthan (Bharatpur, Alwar, Sahapura, Jaipur, Bikaner, Ganganagar, Hanumangarh), Gujarat (Jamnagar), Uttar Pradesh (Saharanpur, Muzaffar Nagar, Agra, Mathura), Arunachal Pradesh (Patkai Hills), Kerala (Thirunelly forest, Kozhikode)
- 9.8.64 *Onthophagus fasciatus* Boucomont, 1914
Himachal Pradesh (Sarahan, Nichar, Kalpa), Uttarakhand (Dehradun), Madhya Pradesh (Amarkantak, Shahdole, Umaria, Rewa), Karnataka (Belgaum, Pollibetta, Coorg), Tamil Nadu (Palni Hills, Sims Park, Coonoor, Nilgiri Hills, Anaimalai Hills, Shenbaganur), Kerala (Thirunelly forest, Kozhikode)
- 9.8.65 *Onthophagus favrei* Boucomont, 1914
Karnataka (Belgaum, Ramanguli, N. Kanara, Bengaluru), Tamil Nadu (Nilgiri Hills, Coimbatore), Kerala (Kozhikode)
- 9.8.66 *Onthophagus felix* Arrow, 1931
Jharkhand (Chota Nagpur, Nawatoli)
- 9.8.67 *Onthophagus fossor* Arrow, 1931
Sikkim (Tsuntang)
- 9.8.68 *Onthophagus frankenbergeri* Balthasar, 1933
'East India', Puducherry
- 9.8.69 *Onthophagus (Paraphanaeomorphus) frugivorus* Arrow, 1931
'Kashmir', Rajasthan (Jaisalmer), Gujarat (Banaskantha, Porbandar), Meghalaya (Garo Hills)
- 9.8.70 *Onthophagus (Palaeonthophagus) furcicollis* Arrow, 1931
Haryana (Kalesar forest), Uttarakhand (Nun Nadi, Dehradun, Mussoorie), Rajasthan (Karauli), W. Bengal (Gopaldhara, Rangbong Valley), Arunachal Pradesh
- 9.8.71 *Onthophagus furcillifer* Bates, 1891
Jammu & Kashmir (Banihal, Ramban, Udampur), Punjab (Sivalik belt), Himachal Pradesh (Kulu), Haryana (Kalesar forest), Uttarakhand (Mussoorie, Timli, Siwalik Hills, Ringal Garh, Dehradun, Almora, Kumaon, Nainital), Chhattisgarh (Bilaspur), Kerala (Karkur Ghat, Malabar), 'Assam'
- 9.8.72 *Onthophagus furculus* (Fabricius), 1798
Puducherry
- 9.8.73 *Onthophagus fuscopunctatus* (Fabricius), 1798
Rajasthan (Jodhpur, Sikar), Gujarat (Banaskantha), Tamil Nadu (Chennai, Madurai)
- 9.8.74 *Onthophagus (Phanaeomorphus) gagatoides* Kabakov, 2006
Himachal Pradesh (Kullu, Triund, Dharamsala), Uttarakhand (Joshimath, Bhagirathi)
- 9.8.75 *Onthophagus gangeticus* Gillet, 1925
Bihar (Pusa, Chapra) W. Bengal (Kolkata)
- 9.8.76 *Onthophagus gemma* Sharp, 1875
W. Bengal (Buxa Dooars), Tamil Nadu (Chennai)
- 9.8.77 *Onthophagus germanus* Gillet, 1927
Uttarakhand (Nainital), W. Bengal (Kurseong)
- 9.8.78 *Onthophagus gibbosus* (Scriba), 1790
'Kashmir', Himalayas (Sutlej River, Indo-Tibet Border)
- 9.8.79 *Onthophagus gibbosus schnabli* Splichal, 1910
'NW India'
- 9.8.80 *Onthophagus gratus* Arrow, 1931
Himachal Pradesh (Dunera), Uttarakhand (Dehradun), Jharkhand (Ranchi)
- 9.8.81 *Onthophagus griseosetosus* Arrow, 1931
Himachal Pradesh (Kolar), Uttarakhand (Dehradun, Haridwar), Madhya Pradesh

- (Balaghat, Jabalpur, Mandla), Chhattisgarh (Raigarh), Karnataka (Mysuru, Kanara), Tamil Nadu (Nilgiri Hills)
- 9.8.82 *Onthophagus (Micronthophagus) gulo* Arrow, 1931
Madhya Pradesh (Sagoda, Purna), Rajasthan (Bharatpur), Maharashtra (Nagpur, Buldana), Karnataka (Belgaum)
- 9.8.83 *Onthophagus hamaticeps* Arrow, 1931
Rajasthan (Sikar), Punjab (Sivalik belt), Uttarakhand (Jhajra Range, Sivalik Hills), Arunachal Pradesh
- 9.8.84 *Onthophagus hastifer* Lansberge, 1885
'India'
- 9.8.85 *Onthophagus hemipygus* Frey, 1964
India, Odisha (Taypore Prov. (Jeypore?))
- 9.8.86 *Onthophagus (Colobonthophagus) hindu* Arrow, 1931
'Kashmir', Madhya Pradesh (Jabalpur, Singhori sanctuary), Maharashtra (Nagpur, Melghat Tiger Reserve, Tarubanda), Andhra Pradesh (Yemmiganur)
- 9.8.87 *Onthophagus (Micronthophagus) hystrix* Boucomont, 1914
Uttarakhand (Dehradun), Haryana (Kurukshetra), Uttar Pradesh (Faizabad), Madhya Pradesh (Baihar, Balaghat, Motinala, Mandla), Bihar (Pusa, Chapra), Maharashtra (Nagpur), Karnataka (Belgaum), Andhra Pradesh (Cheepurupalli), Tamil Nadu (Coimbatore, Tiruchirappali), Kerala ('Travancore')
- 9.8.88 *Onthophagus ibex* (Fabricius), 1792
'India'
- 9.8.89 *Onthophagus igneus* Vigors, 1825
Karnataka (Bengaluru), Tamil Nadu (Anaimalai Hills, Yerkaud, Shevaroy Hills)
- 9.8.90 *Onthophagus (Paraphanaeomorphus) insignicollis* Frey, 1954
Jharkand (Chota Nagpur), Kerala (Kozhikode)
- 9.8.91 *Onthophagus jucundus* Arrow, 1931
Manipur
- 9.8.92 *Onthophagus kanarensis* Arrow, 1931
Karnataka (Talewadi, near Castle Rock, N. Kanara)
- 9.8.93 *Onthophagus kapuri* Endrodi, 1974
Maharashtra (Bhaja)
- 9.8.94 *Onthophagus kashmirensis* Balthasar, 1966
'Kashmir'
- 9.8.95 *Onthophagus kchatriya* Boucomont, 1914
Karnataka (Bengaluru), Tamil Nadu (Nilgiri Hills, Chennai, Anaimalai Hills, Yerkaud), Kerala (Elenjeri, Nilambur, Kozhikode)
- 9.8.96 *Onthophagus keiseri* Frey, 1956
'India'
- 9.8.97 *Onthophagus keralensis* Frey, 1975
Kerala (Thiruvananthapuram)
- 9.8.98 *Onthophagus keralicus* Biswas & Chatterjee, 1986
Kerala (Silent Valley)
- 9.8.99 *Onthophagus kulti* Balthasar, 1952
'India', 'Kashmir'
- 9.8.100 *Onthophagus (Matashia) kuluensis* Bates, 1891
Jammu & Kashmir (Afan, Dorus, Putshai, Lolab Valley), Punjab (Sivalik belt), Himachal Pradesh (Dalhousie, Sarahan, Dunera, Kulu, Simla, Fagu), Uttarakhand (Mussoorie, Chakrata, Almora), Rajasthan (Ajmer, Alwar, Bharatpur, Dausa, Sikar, Barmer, Churu, Hanumangarh, Jaipur, Jalore, Jhunjhunu, Jodhpur, Karauli, Rajsamand, Sirohi, Tonk), Gujarat (Junagarh), Arunachal Pradesh (Tawang, Lumla)
- 9.8.101 *Onthophagus kumaonensis* Arrow, 1931
Himachal Pradesh (Theog, Simla Hills), Uttarakhand (Mussoorie, Nainital, W. Almora)
- 9.8.102 *Onthophagus laborans* Arrow, 1931
Madhya Pradesh (Singhori sanctuary), Maharashtra (Nashik, Chikalda Berars), Karnataka (Dharwar)
- 9.8.103 *Onthophagus laevigatus* Fabricius, 1798
Karnataka (Chikkaballapura), Andhra Pradesh (Buravalli), Tamil Nadu (Coimbatore, Chennai, Kanya Kumari), Kerala (Paravur, 'Travancore')
- 9.8.104 *Onthophagus (Serrophorus) laevis* Harold, 1880
Uttarakhand (Mussoorie), W. Bengal (Kurseong), Kerala (Thirunelly forest)
- 9.8.105 *Onthophagus lamellatus* Boucomont, 1924
'India'
- 9.8.106 *Onthophagus lapillus* Arrow, 1931
Punjab (Sivalik belt), Himachal Pradesh (Simla), Haryana (Kalesar forest), Uttarakhand (Dehradun, Mussoorie, Shamkhet, Nainital), W. Bengal (Pedong, Gopaldhara, Rungbong Valley)
- 9.8.107 *Onthophagus lemniscatus* Gillet, 1924
Tamil Nadu (Sims Park, Coonoor), Kerala (Thirunelly forest)
- 9.8.108 *Onthophagus (Furconthophagus) lilliputanus* Lansberge, 1883
Jammu & Kashmir (Sonamarg), Himachal Pradesh (Theog, Simla hills), Chandigarh, Uttarakhand (Mussoorie, Kalsi), Mumbai, Odisha (Berkuda Is., Chilka Lake), Karnataka (Kanara), Tamil Nadu (Coimbatore)
- 9.8.109 *Onthophagus ludio* Boucomont, 1914
Maharashtra (Nagpur), Karnataka (Belgaum, Siddapur, Coorg), Odisha (Berkuda Is., Chilka Lake), Andhra Pradesh (Samalkot), Tamil Nadu (Chennai, Nilgiri Hills)
- 9.8.110 *Onthophagus (Colobonthophagus) lunatus* Harold, 1868
'India'
- 9.8.111 *Onthophagus (Gibbonthophagus) luridipennis* Boheman, 1858

- Uttarakhand (Dehradun), Asom (Haflong, Cachar)
- 9.8.112 *Onthophagus madoqua* Arrow, 1931
Rajasthan, Gujarat (Ahmedabad, Banaskantha, Mahesana, Surendranagar), Tamil Nadu (Nilgiri Hills), Kerala (Thirunelly forest, Kozhikode)
- 9.8.113 *Onthophagus malabarensis* Boucomont, 1919
Uttar Pradesh (Sitapur), Maharashtra (Igatpuri), Kerala (Wynaad, Kozhikode)
- 9.8.114 *Onthophagus manipurensis* Arrow, 1907
Meghalaya (Garo Hills above Tura), Manipur
- 9.8.115 *Onthophagus (Palaeonthophagus) marginalis* Gebler, 1817
'Kashmir', Punjab (Sivalik belt), Himachal Pradesh (Dalhousie, Chamba, Sarahan, Nichar, Kalpa, Dunera, Simla), Chandigarh, Uttarakhand (Mussoorie, Chakrata, Kedarnath, Badrinath)
- 9.8.116 *Onthophagus mauritii* Boucomont, 1919
Bihar (Pusa), Karnataka (Dharwar, Chikkaballapur), Tamil Nadu (Nilgiri Hills)
- 9.8.117 *Onthophagus (Colobonthophagus) metalliceus* Arrow, 1931
Karnataka (Kanara)
- 9.8.118 *Onthophagus mirandus* Arrow, 1931
Himachal Pradesh (Simla), Punjab (Sivalik belt), Uttarakhand (W. Almora, Kumaon), Rajasthan (Bharatpur), 'Assam'
- 9.8.119 *Onthophagus mopsus* Fabricius, 1792
Jammu & Kashmir (Harwan, Pohru Valley, Haran, Sindh Valley, Batote), Himachal Pradesh (Dalhousie, Nahan, Sarahan, Nichar, Una), Punjab (Jalandhar, Ludhiana, Nangal), Chandigarh, Haryana (Kurukshetra, Yamuna Nagar, Kalka, Karnal, Panipat, Jind, Hissar, Sirsa, Narnaul, Gurgaon, Faridabad), Delhi, Uttarakhand (Haridwar, Rishikesh, Dehradun, Jhajra, Haldwani, Almora), Rajasthan (Bharatpur, Shahpura, Ratagarh, Alwar, Bikaner, Ganganagar, Hanumangarh, Sikar, Jaipur), Uttar Pradesh (Saharanpur, Muzaffar Nagar, Agra, Mathura, Faizabad), Madhya Pradesh (Morena, Kheda), Bihar (Pusa), W. Bengal (Kolkata, Berhampur, Darjeeling)
- 9.8.120 *Onthophagus nagpurensis* Arrow, 1931
Jharkhand (Chota Nagpur, Nawatoli)
- 9.8.121 *Onthophagus nasalis* Arrow, 1931
Haryana (Kalesar forest), Uttarakhand (Dehradun, Almora, Kumaon), Rajasthan (Alwar)
- 9.8.122 *Onthophagus necrophagus* Arrow, 1931
Uttarakhand (Nun Nadi, Doon valley, Jhajra, Dehradun)
- 9.8.123 *Onthophagus (Indachorius) nefarius* Balthasar, 1941
Jharkhand (Ranchi)
- 9.8.124 *Onthophagus negligens* Walker, 1858
Karnataka (Bengaluru), Tamil Nadu (Madurai), Kerala (Kozhikode, Thirunelly forest)
- 9.8.125 *Onthophagus (Colobonthophagus) neocolobus* Scheuern, 1996
Karnataka (Chikmagalur)
- 9.8.126 *Onthophagus (Macronthophagus) nilgirensis* Gillet, 1922
Tamil Nadu (Nilgiri Hills)
- 9.8.127 *Onthophagus (Colobonthophagus) occipitalis* Lansberge, 1885
Rajasthan (Alwar, Bharatpur, Karauli), Arunachal Pradesh
- 9.8.128 *Onthophagus ochreateus* d'Orbigny, 1897
Gujarat (Junagarh)
- 9.8.129 *Onthophagus octogonus* Frey, 1962
Asom (Kaziranga, North Mikir Hills, Brahmaputra)
- 9.8.130 *Onthophagus (Micronthophagus) oculatus* Arrow, 1931
Rajasthan (Bharatpur, Sirohi, Tonk), Gujarat (Surendranagar), Kerala (Malabar), Puducherry
- 9.8.131 *Onthophagus orientalis* Harold, 1868
Haryana (Kalesar forest), Uttarakhand (Dehradun), Uttar Pradesh (Allahabad), Rajasthan (Alwar), Gujarat (Banaskantha), Madhya Pradesh (Balaghat), Chhattisgarh (Raigarh), Bihar (Pusa, Chapra), W. Bengal (Mangpu), Arunachal Pradesh (Patkai Hills), Asom (Sadiya), Meghalaya (Nongpoh, Khasi Hills, Shillong), Manipur
- 9.8.132 *Onthophagus orissanus* Arrow, 1931
Madhya Pradesh (Pench Tiger Reserve, Seoni), Odisha (Barkul, Chilka Lake)
- 9.8.133 *Onthophagus pacificus* Lansberge, 1885
Uttarakhand (Jhajra Range, Dehradun), Meghalaya (Shillong), Karnataka (Kanara), Tamil Nadu (Nilgiri Hills)
- 9.8.134 *Onthophagus (Colobonthophagus) paliceps* Arrow, 1931
Uttarakhand (Dehradun), Madhya Pradesh (Mandla, Keolari)
- 9.8.135 *Onthophagus (Furconthophagus) papulatus* Boucomont, 1914
'India'
- 9.8.136 *Onthophagus parafasciatus* Balthasar, 1974
Tamil Nadu (Coimbatore)
- 9.8.137 *Onthophagus (Colobonthophagus) pardalis* (Fabricius), 1798
Karnataka (Belgaum, Kanara), Tamil Nadu (Nilgiri Hills, Tiruchirappalli)
- 9.8.138 *Onthophagus parvulus* Fabricius, 1798
Karnataka (Belgaum, Dharwar), Tamil Nadu (Chennai), Kerala (Kozhikode)
- 9.8.139 *Onthophagus pauliani* Balthasar, 1937
Meghalaya (Khasi Hills)
- 9.8.140 *Onthophagus (Pseudonthophagus) penicillatus* Harold, 1879
W. Bengal (Gopaldhara, Rungbong Valley), 'Assam'

- 9.8.141 *Onthophagus (Colobonthophagus) piffli* Petrovitz, 1961
'India'
- 9.8.142 *Onthophagus planifrons* Frey, 1962
Asom (Sadiya), Arunachal Pradesh (Patkai Hills)
- 9.8.143 *Onthophagus politus* (Fabricius), 1798
Rajasthan (Bharatpur), Gujarat (Patan), Bihar (Pusa), Karnataka (Belgaum), Tamil Nadu (Madurai), Arunachal Pradesh
- 9.8.144 *Onthophagus pollicatus* Harold, 1879
Asom (Haflong)
- 9.8.145 *Onthophagus porcus* Arrow, 1931
'India'
- 9.8.146 *Onthophagus productus* Arrow, 1907
Himachal Pradesh (Chail), Uttarakhand (Dehradun, Mussoorie, Almora, Kumaon, Ranikhet), W. Bengal (Darjeeling), Gujarat (Ahmedabad, Mahesana, Rajkot, Surendranagar)
- 9.8.147 *Onthophagus proletarius* Harold, 1875
'India'
- 9.8.148 *Onthophagus pusillus* Fabricius, 1798
'India'
- 9.8.149 *Onthophagus pygmaeus* Schaller, 1783
Karnataka (Bengaluru), Kerala (Thiruvanthapuram, Kanakuth, Nilambur, Kozhikode)
- 9.8.150 *Onthophagus (Colobonthophagus) quadridentatus* Fabricius, 1798
Himachal Pradesh (Kolar, Nahan, Una), Punjab (Jalandhar, Ludhiana, Nangal), Haryana (Kurukshetra, Yamuna Nagar, Kalesar forest, Karnal, Panipat, Jind, Bhiwani, Hissar, Sirsa, Gurgaon), Uttarakhand (Dehradun, Haridwar), Uttar Pradesh (Saharanpur, Muzaffar Nagar, Agra, Mathura), Rajasthan (Bharatpur, Alwar, Ganganagar, Hanumangarh, Jaipur), Madhya Pradesh (Jabalpur, Rewa, Jaithari Range, Umaria, Singhori sanctuary), W. Bengal (Kolkata, Berhampur), Arunachal Pradesh (Patkai Hills), Maharashtra (Nagpur, Melghat Tiger Reserve, Chourakund, Pune), Karnataka (Belgaum, Bengaluru), Tamil Nadu (Coimbatore, Palni Hills, Nilgiri Hills), Puducherry (Mahe), Kerala (Thirunelly forest, Malabar, Sappal, Palghat)
- 9.8.151 *Onthophagus (Parascatonomus) quaestus* Sharp, 1875
Himachal Pradesh (Una), Haryana (Kurukshetra, Yamuna Nagar, Karnal, Panipat, Jind, Hissar, Gurgaon), Rajasthan (Bharatpur, Alwar, Jaipur), Uttarakhand (Dehradun, Haridwar), Uttar Pradesh (Saharanpur, Muzaffar Nagar, Agra, Mathura, Faizabad), Bihar (Pusa, Chapra), W. Bengal (Berhampur), Maharashtra (Nagpur, Mumbai), Tamil Nadu (Chennai), Kerala (Palakkad, Sappal)
- 9.8.152 *Onthophagus rachelis* Martin- Piera, 1985
'India', 'Kashmir', Sikkim
- 9.8.153 *Onthophagus (Colobonthophagus) ramosellus* Bates, 1891
'Kashmir', Himachal Pradesh (Sarhan, Nahan, Kulu), Punjab (Jalandhar, Ludhiana, Sivalik belt), Haryana (Kurukshetra, Panipat, Jind, Hissar, Sirsa, Bhiwani, Narnaul, Gurgaon, Faridabad), Chandigarh, Rajasthan (Bharatpur, Bikaner, Ganganagar, Hanumangarh), Uttarakhand (Suswa River, Jhajra, Dehradun, Haridwar, Rishikesh, Haldwani, Nainital), Uttar Pradesh (Saharanpur, Muzaffar Nagar, Agra, Mathura, Faizabad), Madhya Pradesh (Betul, Hoshangabad), Bihar (Pusa, Chapra), W. Bengal (Kolkata, Berhampur), Asom (Tezpur), Maharashtra (Nagpur), Karnataka (Bengaluru)
- 9.8.154 *Onthophagus ramosus* (Wiedeman), 1823
'Kashmir', Punjab (Nangal, Sivalik belt), Himachal Pradesh (Sarhan, Nahan, Kangra), Uttarakhand (Almora, Dehradun, Haldwani), Haryana (Kalesar forest), Rajasthan (Alwar, Dholpur, Karauli), Madhya Pradesh (Indore, Motinala Range, Mandla, Mhow, Jabalpur), Bihar (Pusa), Maharashtra (Nagpur, Melghat Tiger Reserve, Kolkas), Karnataka (Belgaum, Mysuru, Kanara, Bengaluru), Puducherry.
- 9.8.155 *Onthophagus rana* Arrow, 1931
Gujarat (Junagarh), Tamil Nadu (Kodaikanal).
- 9.8.156 *Onthophagus (Serrophorus) rectecornutus* Lansberge, 1883
Haryana (Kurukshetra), Bihar (Pusa), Karnataka (Bengaluru, Chikmagalur), Tamil Nadu (Nilgiri Hills), Kerala (Malabar, Thirunelly forest)
- 9.8.157 *Onthophagus refulgens* Arrow, 1931
Tamil Nadu (Kodaikanal, Shenbaganur)
- 9.8.158 *Onthophagus royi* Biswas & Chatterjee, 1985
Arunachal Pradesh
- 9.8.159 *Onthophagus (Macronthophagus) rubricollis* Hope, 1831
Uttarakhand (Gori Valley, Almora, Kumaon, Mukteshwar), W. Bengal (Sitong, Darjeeling dist.), Meghalaya (Shillong, Maflong, Khasi Hills)
- 9.8.160 *Onthophagus rubripennis* Arrow, 1907
Sikkim (Phadam chen.), W. Bengal (Kurseong), Meghalaya (Dumpep, Khasi Hills, Shillong)
- 9.8.161 *Onthophagus (Parascatonomus) rudis* Sharp, 1875
Madhya Pradesh (Jabalpur), Bihar (Pusa), Arunachal Pradesh (Patkai Hills)
- 9.8.162 *Onthophagus ruficauda* Arrow, 1931
'India'
- 9.8.163 *Onthophagus rugulosus*, Harold, 1886
Meghalaya (Tura, Garo Hills)
- 9.8.164 *Onthophagus (Serrophorus) sagittarius* Fabricius, 1775
Uttarakhand (Dehradun), Rajasthan (Dholpur), Madhya Pradesh (Jaithari Range, Rewa, Umaria), W. Bengal (Kolkata), Arunachal Pradesh,

- 9.8.165 *Onthophagus sahai* Biswas & Chatterjee, 1986
Kerala (Silent Valley)
- 9.8.166 *Onthophagus (Euonthophagus) schnabeli*
Splichal, 1910
'Kashmir'
- 9.8.167 *Onthophagus semicinctus* D'orbigny, 1897
Rajasthan (Bundi, Sawaimadhopur, Sikar),
Gujarat (Junagarh), Maharastra (Nagpur,
Khandesh)
- 9.8.168 *Onthophagus (Serrophorus) senex* Boucomont,
1914
'India'
- 9.8.169 *Onthophagus (Serrophorus) seniculus* (Fabricius),
1781
Rajasthan (Ajmer, Alwar, Sikar, Bikaner, Barmer,
Bharatpur, Bhilwara, Chittorgarh, Churu, Dausa,
Dholpur, Hanumangarh, Jaisalmer, Jalore,
Jhunjhunu, Jodhpur, Karauli, Nagaur, Pali,
Rajsamand, Sawaimadhopur, Sirohi,
Sriganganagar, Tonk), Gujarat (Ahemdabad,
Banaskantha, Jamnagar, Junagarh, Kutch,
Mahesana, Patan, Porbandar, Rajkot,
Surendranagar), Arunachal Pradesh, 'India'
- 9.8.170 *Onthophagus shillongensis* Scheuern, 1995
Karnataka (Belgaum), Meghalaya (Shillong)
- 9.8.171 *Onthophagus sikkimensis* Gillet, 1925
W.Bengal (Lopchu, Darjeeling Dist., Kurseong)
- 9.8.172 *Onthophagus socialis* Arrow, 1931
Karnataka (Tavargatti, Belgaum Dist.,
Kushalanagara, Coorg), Tamil Nadu (Nilgiri Hills).
- 9.8.173 *Onthophagus songsokensis* Biswas & Chatterjee,
1985
Arunachal Pradesh
- 9.8.174 *Onthophagus spinifex* Fabricius, 1781
Punjab (Jalandhar, Ludhiana), Haryana
(Kurukshetra, Yamuna Nagar, Kalesar forest,
Karnal, Panipat, Jind, Hissar, Sirsa, Bhiwani,
Gurgaon, Faridabad), Chandigarh, Uttarakhand
(Haldwani), Rajasthan (Bharatpur, Ganganagar,
Hanumangarh, Jaipur, Shahapura, Churu), Uttar
Pradesh (Saharanpur, Muzaffar Nagar, Agra,
Mathura), Bihar (Pusa), W. Bengal (Berhampur),
Maharastra (Pune), Karnataka (Belgaum,
Chikkaballapur), Tamil Nadu (Nilgiri Hills,
Madurai), Kerala (Kinavallur, Malabar)
- 9.8.175 *Onthophagus sternalis* Arrow, 1931
Haryana (Kurukshetra, Kalesar forest),
Uttarakhand (Dehradun), Uttar Pradesh
(Faizabad), Madhya Pradesh (Singhori
sanctuary), Bihar (Pusa, Chapra), W.Bengal
(Berhampur, Murshidabad), Gujarat (Surat)
- 9.8.176 *Onthophagus subansiriensis* Biswas, 1979
Arunachal Pradesh
- 9.8.177 *Onthophagus suillus* Arrow, 1931
Karnataka (Mysuru)
- 9.8.178 *Onthophagus (Palaeonthophagus) sutleinensis*
Splichal, 1910
Jammu & Kashmir (Rajpur Rampur), Punjab
(Sivalik belt), Himachal Pradesh (Bashahr), Tibet
Border (Sutlej River)
- 9.8.179 *Onthophagus (Trichonthophagus) tarandus*
(Fabricius), 1792
'Kashmir', Himachal Pradesh (Sarahan, Nahan),
Uttarakhand (Dehradun), Haryana (Kurukshetra,
Kalesar forest), Rajasthan (Alwar, Bhilwara),
Madhya Pradesh (Jaithari Range, Balaghat,
Rewa, Umaria, Baihar), Bihar (Pusa), W. Bengal
(Berhampur, Kolkata), Karnataka (Belgaum),
Tamil Nadu (Nilgiri Hills)
- 9.8.180 *Onthophagus taurinus* White, 1844
'India'
- 9.8.181 *Onthophagus tibetanus* Arrow, 1907
Jammu & Kashmir (Khilanmarg), Uttarakhand
(Badrinath, Kedarnath, Dhaulti Ganga valley,
Almora)
- 9.8.182 *Onthophagus tirapensis* Biswas & Chatterjee,
1985
Arunachal Pradesh
- 9.8.183 *Onthophagus tnai* Nithya & Sabu, 2012
India (south Western Ghats)
- 9.8.184 *Onthophagus (Colobonthophagus) tragoides*
Boucomont, 1914
'India'
- 9.8.185 *Onthophagus tragus* (Fabricius), 1792
Himachal Pradesh (Sarahan, Nahan, Una),
Uttarakhand (Dehradun), Rajasthan (Banswara,
Jodhpur, Sawaimadhopur, Sirohi), Gujarat, W.
Bengal (Berhampur), Karnataka (Belgaum)
- 9.8.186 *Onthophagus (Colobonthophagus)*
transquadridentatus Scheuern, 1995
Tamil Nadu (Tiruchirappalli)
- 9.8.187 *Onthophagus (Colobonthophagus) triceratops*
Arrow, 1913
Gujarat (Surendranagar), Asom (Sadiya)
- 9.8.188 *Onthophagus (Parascatonomus) tricornis*
Wiedeman, 1823
Bihar (Chapra)
- 9.8.189 *Onthophagus tritinctus* Boucomont, 1914
Maharastra (Nagpur), Karnataka (Nandidurg),
Tamil Nadu (Coonoor)
- 9.8.190 *Onthophagus troglodyta* (Wiedemann), 1823
Punjab (Nangal, Sivalik belt), Haryana (Yamuna
Nagar, Kalesar forest), Rajasthan (Jodhpur,
Jhunjhunu, Karauli, Sawaimadhopur),
Uttarakhand (Suswa River, Dehradun, Haridwar,
Rishikesh), Uttar Pradesh (Mohand Rauli, Siwalik
Hills)
- 9.8.191 *Onthophagus (Matashia) troniceki* Balthasar, 1933
Odisha (Surada)
- 9.8.192 *Onthophagus truncaticornis* Schaller, 1783
'Kashmir', Madhya Pradesh (Mandla, Keolari),
Karnataka (Belgaum, Dharwar, Kanara,
Mangalore), Tamil Nadu (Nilgiri Hills)

- 9.8.193 *Onthophagus turbatus* Walker, 1858
Maharastra (Pune, Melghat Tiger Reserve, Chourakund), Karnataka (Belgaum, Kanara), Tamil Nadu (Nilgiri Hills, Genji, Coromandel), Kerala (Malbar, Thirunelly forest, Kozhikode), Puducherry (Mahe)
- 9.8.194 *Onthophagus unifasciatus* Schaller, 1783
Punjab (Nangal), Haryana (Kurukshetra, Yamuna Nagar), Uttarakhand (Dehradun), Uttar Pradesh (Faizabad), Madhya Pradesh (Jabalpur), Jharkhand (Ranchi), W. Bengal (Kolkata), Maharastra (Nagpur, Pune), Karnataka (Belgaum, Chikkaballapura), Andhra Pradesh (Chipurupalli, Thanelanka, Yemmiganur), Tamil Nadu (Coimbatore, Nilgiri Hills, Tiruchirappalli), Kerala (Paravur, Kinavallur, Kozhikode)
- 9.8.195 *Onthophagus (Colobonthophagus) urellus* Boucomont, 1919
Tamil Nadu (Nilgiri Hills), Kerala (Thirunelly forest)
- 9.8.196 *Onthophagus usurpator* Balthasar, 1959
Karnataka (Coorg, Ponnampet), Kerala (Thirunelly forest)
- 9.8.197 *Onthophagus variegatus* (Fabricius), 1798
Punjab (Sivalik belt), Haryana (Narnaul, Loharu, Mohindergarh), Rajasthan (Alwar, Churu, Sardarsahar, Sikar, Ratangarh, Bikaner, Jaipur, Jhunjunu, Jaisalmer, Jodhpur, Nagaur), Gujarat (Kutch), Arunachal Pradesh
- 9.8.198 *Onthophagus vaulogeri* Boucomont, 1923
Uttarakhand (Dehradun), Meghalaya (Shillong)
- 9.8.199 *Onthophagus (Micronthophagus) vigilans* Boucomont, 1921
Rajasthan (Alwar, Bharatpur), Bihar (Chapra)
- 9.8.200 *Onthophagus violaceotinctus* Gillet, 1925
Gujarat (Banaskantha), Andhra Pradesh (Horsleykonda, Chittoor district), Tamil Nadu (Shenbaganur, Kodaikanal)
- 9.8.201 *Onthophagus (Parascatonomus) vividus* Arrow, 1907
Karnataka (Bengaluru, Nandidurg), Tamil Nadu (Jwalagiri, Nilgiri Hills), Kerala (Peermade, Thiruvanthapuram, 'Travancore')
- 9.8.202 *Onthophagus vladimiri* Frey, 1957
Tamil Nadu (Anaimalai Hills), Kerala (Thirunelly forest)
- 9.8.203 *Onthophagus vulpinus* Arrow, 1931
Arunachal Pradesh (Patkai Hills)
- 9.8.204 *Onthophagus vultur* Arrow, 1931
Maharastra (Igatpuri), Karnataka (Belgaum)
- 9.8.205 *Onthophagus zebra* Arrow, 1931
Madhya Pradesh (Indore, Mhow), Karnataka (Belgaum)
- 9.9** *Phalops* **Erichson, 1847**
- 9.9.1 *Phalops candezei* Lansberge, 1883
Gujarat (Rajkot), Madhya Pradesh (Indore, Mhow), Karnataka (Belgaum), Andhra Pradesh (Harivanam)
- 9.9.2 *Phalops cyanescens* D'Orbigny, 1897
Rajasthan (Churu, Jalore, Rajsamand), Andhra Pradesh (Harivanam), Tamil Nadu (Coimbatore)
- 9.9.3 *Phalops divisus* Wiedemann, 1823
Himachal Pradesh (Sarahan, Nahan), Haryana (Kalesar forest), Rajasthan (Alwar, Barmer, Jodhpur, Karauli), Uttarakhand (Dehradun), Uttar Pradesh (Sitapur, Faizabad), Madhya Pradesh (Indore, Hoshangabad, Mhow, Jabalpur), Gujarat (Rajkot), Andhra Pradesh (Kodumur), Tamil Nadu (Podanur, Coimbatore, Coromandel), Kerala (Malabar)
- 9.9.4 *Phalops olivaceus* Lansberge, 1883
Rajasthan (Bikaner, Jalore, Jaisalmer), Gujarat (Jamnagar), Madhya Pradesh (Mandla), 'India'
- 9.10** *Proagoderus* **Lansberge, 1883**
- 9.10.1 *Proagoderus amplexus* (Sharp), 1875
Himachal Pradesh (Sarahan), Punjab (Sivalik belt), Uttarakhand (Dehradun), Madhya Pradesh (Jabalpur)
- 9.10.2 *Proagoderus badeni* (Harold), 1875
Asom (Cachar)
- 9.10.3 *Proagoderus gladiator* (Arrow), 1907
'India', Rajasthan (Ajmer)
- 9.10.4 *Proagoderus imperator* (Castelnau), 1840
Rajasthan (Dungarpur), Karnataka (Belgaum, Kanara), Tamil Nadu (Nilgiri Hills)
- 9.10.5 *Proagoderus mouhoti* (Harold), 1875
'India'
- 9.10.6 *Proagoderus pactolus* (Fabricius), 1787
Haryana (Kalesar forest), Chandigah, Uttarakhand (Dehradun), Uttar Pradesh (Bareilly, Faizabad), Madhya Pradesh (Indore, Hoshangabad, Mhow, Singhori sanctuary), Maharastra (Sagoda, Purna, Buldana, Melghat Tiger Reserve, Kolkas), Karnataka (Mysuru, Bengaluru)
- 9.11** *Strandius* **Balthasar, 1935**
- 9.11.1 *Strandius gagates* (Hope), 1831
Himachal Pradesh (Dalhousie, Simla, Matiana), Uttarakhand (Mussoorie, Chakrata, Dehradun, Ranikhet, Almora, Mukteshwar, Kumaon), Asom (Haflong), Meghalaya (Shillong), Manipur
- 9.11.2 *Strandius hingstoni* (Arrow), 1931
Sikkim (Tsuntang, Lachen)
- 9.11.3 *Strandius lenzi* Harold, 1874
'N. India'
- 9.11.4 *Strandius procurvus* Balthasar, 1935
'India'

LIST BASED ON

Arrow, G. J. 1931. The Fauna of the British India including Ceylon and Burma, Coleoptera, Lamellicornia,

- Part III (Coprinae). Taylor and Francis, London, p. 428.
- Bakshi Jahangir. Checklist of insects of India. www.kashmirnetwork.com/wildlife/arthropods/ Biswas, S & S. K. Chatterjee 1986–2000. Various papers on the fauna of different Indian States.
- Chatterjee, S.K. 2007. Book chapter – Coleoptera, Scarabaeidae, p. 461-478. In Fauna of Andhra Pradesh – part -3
- Gorodinski Andre. 2006. The insects from Palaearctic region – www.gorodinski.ru/coprophaga.php; - Checklist of *Onthophagus* of Russia and adjacent lands - www.gorodinski.ru/checklist-Onthophagus-russia.html; Insects of South-East Asia/ Checklists.page 2 - Insectavaria.com/checklists.html
- http://www.scarabnet.org/ScarabNet/Conservation.../SRLI_1500_species.xls
- <http://ZipcodeZoo.com/animals>
- Hope, E.W. Observation on the Lamellicorns of Olivier. *Eureka Mag com*: 312-326
- Kabakov O.N.2006. A little known and new species of the tribe Onthophagini (Coleoptera: Scarabaeidae) from India, Pakistan, Myanmar and China. *Proceeding of Russian Entomological Society, St. Petersburg, vol. 77: 123-131.*
- Kabakov O.N., Napolov A. 1999. Fauna and ecology of Lamellicornia of subfamily Scarabaeinae (Scarabaeidae, Coleoptera) of Vietnam and some parts of adjacent countries: South China, Laos and Thailand. - *Latvijas Entomologs, 37: 58-96.*
- Kailash Chandra & coworkers 2000–12. Fauna of Madhya Pradesh, Arunachal Pradesh (various papers), List -The Entomological Collection of Lund University, Sweden -<http://130.235.11.35/search.php?taxa=Scarabaeinae> Mehta, H. S. 2001. Beetles reported from the Shivalik belt of Punjab. *ZSI, Solan: 153-193.*
- Mittal, I. C. 1981, 1999, 2000, 2005, 2011- Scarabaeids of Haryana and surrounding areas. *Bulletin of Entomology* 22: 35-40; -Annotated list of scarab fauna (Scarabaeidae: Coleoptera) of Western Uttar Pradesh (India). *Annals of Entomology* 17(2): 25-43; -Survey of scarabaeid (Coleoptera) fauna of Himachal Pradesh (India). *Journal of Entomological Research* 24(3): 259-269; - Diversity and conservation status of dung beetles. *Bulletin of National Institute of Ecology* 15: 43-51; -Unpublished data from 1972 to 2012
- Latha, M., G. Cuccodoro., T. K. Sabu, and K. V. Vinod. 2011. Taxonomy of the dung beetle genus *Ochicanthon* Vaz-de-Mello (Coleoptera: Scarabaeidae: Scarabaeinae) of the Indian subcontinent. *Zootaxa* 2745:1-29
- Schoolmeesters P. 2012, 2013, 2014. Scarabs: World Scarabaeidae Database (latest version Aug 2014). In: Species 2000 & ITIS Catalogue of Life (22 Dec. 2014), Digital resource at www.catalogueoflife.org/col/
- Sewak R. 2009. Dung beetles (Coleoptera- Scarabaeidae- Coprinae) of the Thar Desert of Rajasthan and Gujarat.
- Zidek J. and Svatopluk Pokorný 2010. Review of *Synapsis* Bates (Scarabaeidae: Scarabaeinae: Coprini), with description of a new species. *Insect Mundi* 0142: 1-21

ACKNOWLEDGEMENT

Thanks are due to University Grant Commission, New Delhi for financial help and Chairman, Department of Zoology, Kurukshetra University, Kurukshetra for space to carry out the project. Timely help rendered by Dr Paul Schoolmeesters, Belgium is also thankfully acknowledged.

REFERENCES

- Arrow, G. J. 1910. *The Fauna of the British India including Ceylon and Burma, Coleoptera, Lamellicornia (Cetoniinae and Dynastinae)*, Taylor and Francis, London, pp. 322.
- Arrow, G. J. 1931. *The Fauna of the British India including Ceylon and Burma, Coleoptera, Lamellicornia, Part III (Coprinae)*, Taylor and Francis, London, pp. 428.
- Balthasar, V. 1963. *Monographie der Scarabaeidae und Aphodiidae der Palaearktischen und Orientalischen Region (Coleoptera: Lamellicornia)*, Vols 1–3, Verlag Tschechoslowakische Akademie der Wissenschaft, Prague.
- Browne, D. J. and Scholtz, C. H. 1995. Phylogeny of the families of Scarabaeoidea (Coleoptera) based on characters of the hindwing articulation, hindwing base and wing venation. *Systematic Entomology*, 20:145-173.
- Browne, J. and Scholtz, C. H. 1999. A phylogeny of the families of Scarabaeoidea (Coleoptera). *Systematic Entomology*, 24: 51-84.
- Forgie, S. A., Philips, T. K. and Scholtz, C. H. 2005. Evolution of Scarabaeini (Scarabaeidae: Scarabaeinae). *Systematic Entomology*, 30: 60-96.
- Forgie, S. A., Kryger, U., Bloomer, P. and Scholtz, C. H. 2006. Evolutionary relationships among the Scarabaeini (Coleoptera: Scarabaeidae) based on combined molecular and morphological data. *Molecular Phylogeny and Evolution*, 40: 662-678.
- Halffter, G. and Matthews, E. G. 1966. The natural history of dung beetles of the subfamily Scarabaeinae (Coleoptera: Scarabaeidae). *Folia Entomologica Mexicana*, 12-14: 1-312.
- Hanski, I. and Cambefort, Y.1991. *Dung Beetle Ecology*. Princeton University Press, Princeton, USA, pp.481.
- Janssens, A. 1949. Contribution à l'étude des Coleopteres Lamellicornes. XIII. Table synoptique et essai de classification pratique des Coleopteres Scarabaeidae. *Bulletin Institute Royale Sciences Nationales Belgique*, 25 (15): 1-30.
- Lawrence, J. F. and Newton, A. F. 1995. Families and subfamilies of Coleoptera (with selected genera, notes, references and data on family-group names). In *Biology, Phylogeny and Classification of Coleoptera*, Pakaluk, J. and Slipinski, S. A. (Eds.). Muzeum i Zoologii PAN, Warszawa, pp. 779-1006.

- Mittal, I. C. 1981. Scarabaeids of Haryana and surrounding areas. *Bulletin of Entomology*, **22**: 35-40.
- Mittal, I. C. 1999. Annotated list of scarab fauna (Scarabaeidae: Coleoptera) of Western Uttar Pradesh (India). *Annals of Entomology*, **17**(2): 25-43.
- Mittal, I. C. 2000. Survey of scarabaeid (Coleoptera) fauna of Himachal Pradesh (India). *Journal of Entomological Research*, **24**(3): 259-269.
- Mittal, I. C. 2005. Diversity and conservation status of dung beetles. *Bulletin National Institute of Ecology*, **15**: 43-51.
- Mittal, I. C. 2011. Synoptic key to Indian species of genus *Garreta* Janssens with a new species from Haryana (India). *Journal of Entomological Research*, **35**(3): 295-298.
- Monaghan, M.T., Inward, D. J., Hunt, G. T. and Vogler, A. P. 2007. A molecular phylogenetic analysis of the Scarabaeinae (dung beetles). *Molecular Phylogeny and Evolution*, **45**: 674-692.
- Montreuil, O. 1998. Analyse phylogenetique et paraphylie des Coprini et Dichotomiini (Coleoptera: Scarabaeidae), Scenerio Biogeographique. *Annals Society of Entomology, France*, **34** (2): 135-148.
- Ocampo, F.C. and Hawks, D. C. 2006. Molecular phylogenetics and evolution of the food relocation behaviour of the dung beetle tribe Eucraniini (Coleoptera: Scarabaeidae: Scarabaeinae). *Invertebrate Systematics*, **20**: 557-570.
- Philips, T. K., Pretorius, E. and Scholtz, C. H. 2004. A phylogenetic analysis of dung beetles (Scarabaeinae: Scarabaeidae): unrolling an evolutionary history. *Invertebrate Systematics*, **18**: 53-88.
- Scholtz C.H., Davis A. L. V. and Kryger, U. 2009. *Evolutionary Biology and Conservation of Dung Beetles*. Pensoft Publishers, Sofia-Moscow, pp. 7-567.
- Sole, C. L. and Scholtz, C. H. 2010. Did dung beetles arise in Africa? A phylogenetic hypothesis based on five gene regions. *Molecular Phylogeny and Evolution*, **56** (2): 631-641.
- Schoolmeesters P. 2011. Scarabs: World Scarabaeidae Database. In: Species 2000 & ITIS Catalogue of Life, (Bisby F, Roskov Y., Culham A., Orrell T., Nicolson D., Paglinawan L., Bailly N., Appeltans W., Kirk P., Bourgoin T., Baillargeon G., Ouvrard D., (eds). Digital resource at [www.catalogueoflife.org/col/](http://www.catalogueoflife.org/). Species 2000: Reading, UK.
- Tarasov, S. I. and Kabakov, O. N. 2010. Two new species of *Onthophagus* (Coleoptera: Scarabaeidae) from Indochina, with a discussion of some problems with the classification of *Serrophorus* and similar subgenera. *Zootaxa*, **2344**: 17-28.
- Villalba, S., Lobo, J. M., Martin-Piera, F. and Zardoya, R. 2002. Phylogenetic relationship of Iberia dung beetles (Coleoptera: Scarabaeinae): insights on the evolution of nesting behaviour. *Journal of Molecular Evolution*, **55**: 116-126.

(Manuscript Received: December, 2014)