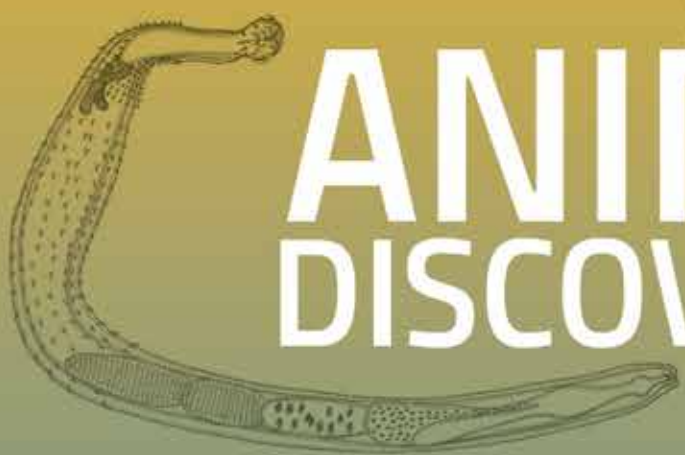
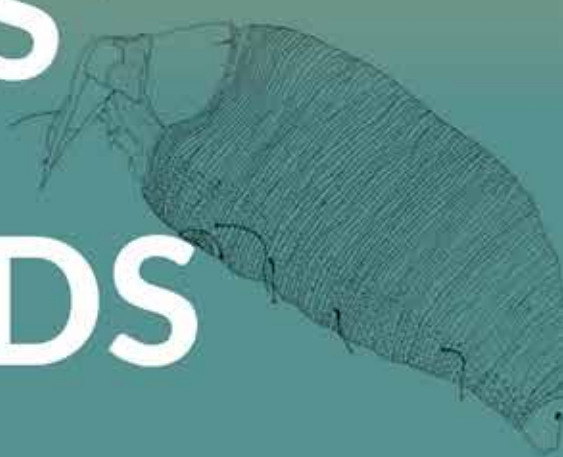


ANIMAL DISCOVERIES 2019

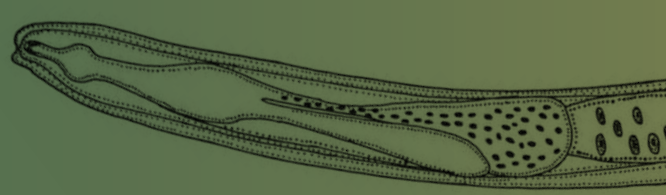
NEW SPECIES NEW RECORDS



Zoological Survey of India, 1916

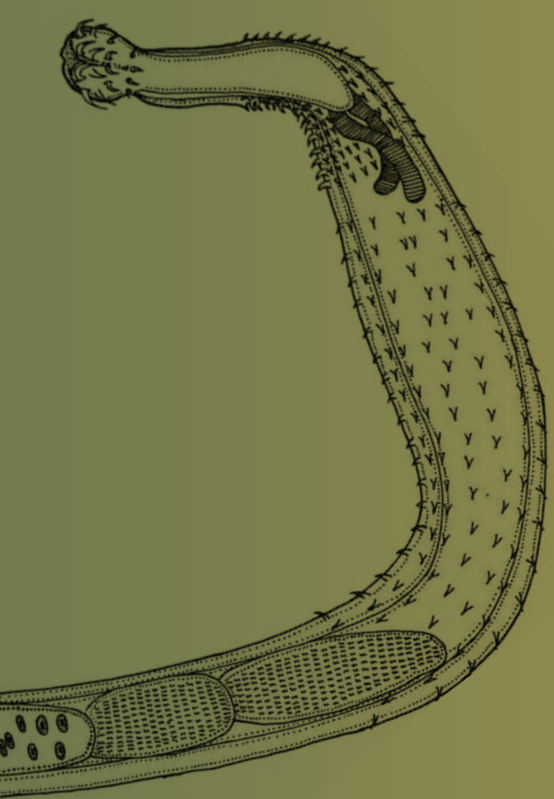
ANIMAL DISCOVERIES 2019

Exploration of organisms is a dynamic process and the Zoological Survey of India has been periodically publishing the 'Animal Discoveries' from India since 2007 dealing with newly described faunal species and first record of species to country. The current edition for year 2019 dealt with 364 species under various groups of animal new to science and 116 newly recorded to India and it makes India's faunal diversity to the account of 1,02,161 species.



Zoological Survey of India

Ministry of Environment,
Forest and Climate Change
Government of India



NEW SPECIES NEW RECORDS

Editors
Dr. Kailash Chandra
Dr. Raghunathan, C.
Dr. Sheela, S.

June 2020

ISBN: 978-81-8171-548-7

Cover Photo
Pheropsophus indicus Venugopal and Thomas 2019

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Design & Print
Xpressions Print & Graphics Pvt. Ltd., Dehradun

Citation

Chandra, K., Raghunathan, C. and Sheela, S., 2020. Animal Discoveries 2019: New Species and New Records, 1--184 [Published by the Director, Zool. Surv. India, Kolkata]

ACKNOWLEDGEMENTS

The Editors are grateful to

The authorities of Ministry of Environment, Forest and Climate Change, Government of India for their support to Zoological Survey of India.

Contributors of all the new species and new records reproduced in the book.

Ms. Paromita Mandal, Sri Arnab Mandi and Ms. Nabasri Basak, Zoological Survey of India for their effort to compile the data produced in the book.

Few photographs and figures used in this publication are reproduced from original sources. The authors and the journals in which those are published are acknowledged

MESSAGE

PRAKASH JAVADEKAR
Union Minister

Ministry of Environment, Forest and Climate Change
Government of India

सत्यमेव जयते

Conservation of biodiversity is critically dependent on identifying and documenting the organisms. The knowledge of the kind and variety of flora and fauna and ecosystems that exist and their relationship to each other and also to humans, is a prerequisite of any conservation plan. Only a small fraction of the estimated 30 - 50 million species thought to exist have been identified so far. The number of scientifically described species has enormously increased during the past 262 years from 11,000 species described by Linnaeus to 1.8 million species today.

India ranks 8th in global biodiversity richness with four recognized biodiversity hotspots, huge treasure of natural resources, unique culture and traditional knowledge. In addition, India is a leading country with comprehensive institutional system to realize the objectives of the Convention on Biological Diversity.

The Zoological Survey of India (ZSI) under the Union Ministry of Environment, Forest and Climate Change is playing a pivotal role in the exploration of India's vast faunal diversity since 1916, and providing information on the status, abundance and richness of the species from varied ecosystems.

The publication 'Animal Discoveries 2019: New Species and New Records' published annually by ZSI portrays the new addition to the fauna of India in a comprehensive style. I am happy to know that with the dedication of scientists of ZSI and researchers from other institutions, 364 new species in Animal Kingdom have been described from India which once again demonstrate the biodiversity significance of Indian region on a global platform.

I take this opportunity to congratulate the Director, Zoological Survey of India and his committed team of scientists and scientific staff for their pronounced discoveries and bringing out this meticulous publication. I am confident that these discoveries of animals will be helpful for planning future research and management in India.

[Prakash Javadekar]
New Delhi
12th May 2020

MESSAGE

BABUL SUPRIO
Union Minister for State

Ministry of Environment, Forest and Climate Change
Government of India

सत्यमेव जयते

The biodiversity on Earth constitutes a natural heritage and life support system for the humans. India is endowed with rich diversity of flora and fauna and the documentation of these natural wealth is essential in an era where such resources are considered to be valuable for our future generations to prosper. As India is a signatory to the Convention on Biological Diversity, documentation of bio-resources is essential for establishing sovereign rights, sustainable use and equitable sharing of benefits derived out of it.

In order to achieve these goals and conserving biodiversity, it has been recognized that the taxonomic perspectives play a vital role in the programmes and policies of the government. Hence it is prerequisite to understand the life forms individually to know their mutual coexistence with the nature.

The Zoological Survey of India (ZSI) has dedicated itself to the nation in terms of documenting the faunal diversity and newly describing various animal groups which help the mankind in evolving strategies for development of food, livelihood, medicine, industry and maintenance of clean environment. ZSI continues to provide information about the status of threatened species of fauna especially for species specific conservation of India's mega-diversity. The document of new discoveries compiled by ZSI for the year 2019 includes the information on 364 species and 116 first record of faunal species to India.

I congratulate the Director, ZSI and his team of scientists for expanding knowledge about Indian biodiversity by unravelling the hidden life forms from the different ecosystems. I assure that the present publication on Animal Discoveries 2019: New Species and New Records will be immensely benefitted the policy makers to conserve the unique biodiversity of the country.

[Babul Suprio]
New Delhi
May 29, 2020

C.K. Mishra
Secretary

Ministry of Environment, Forest and Climate Change
Government of India

सत्यमेव जयते

FOREWORD

Biodiversity is an exclusive and extremely important component on the Earth. It is not only the variety of living organisms on our planet, but also the interdependence of all these living things, including humans. While various studies across the world are trying to better understand the biodiversity; challenges posed by modern living such as deforestation, urbanization, and climate change leads to loss of biodiversity.

During the past decade, considerable effort has been made to assess the change in the environment, and its mitigation at national or regional level. Many countries including India have prepared national strategies and action plans in response to United Nations Convention on Biological Diversity. These strategies and plans emphasize actions in areas such as enhancement of institutional capacity, ex-situ and in-situ conservation, augmenting public awareness, research, surveys and monitoring and promotion of national and international cooperation.

Exploration and assessment of biota is essential for formulating the strategies for conservation and management of biodiversity. Zoological Survey of India (ZSI) under the Ministry of Environment, Forest and Climate Change having expertise in documentation of faunal resources in different spheres of the country, regularly comes across new species of fauna and annually publishes a compilation of all new species for the benefit of public. I am glad to note that the book **'Animal Discoveries 2019: New Species and New Recods'** has collated information of 364 newly described species and 116 newly recorded species in India contributed by the ZSI scientists and workers from other scientific institutions in India bringing the faunal account of the country to 1,02,161 species.

I must commend the relentless effort of Dr. Kailash Chandra, Director, Zoological Survey of India for bringing out this document methodically for the benefit of the biodiversity conservationists across the globe. I also congratulate the Scientists of ZSI and contributors from different institutions across the country for showing their keen interest on taxonomical research which is the basic tool for understanding biodiversity.

[C.K. Mishra]
New Delhi

27th May 2020

Dr. Kailash Chandra
Director
Zoological Survey of India

PREFACE

Understanding of Earth's species is essential for measuring and preserving biodiversity, testing biological theories, ecosystem functioning and food security for human welfare. Describing yet unexplored species and clarifying the taxonomic status of known species are main challenges towards comprehensive species inventories. The number of species on Earth is exceptionally uncertain, but scientists have estimated that there are around 8.7 million species of plants and animals in existence. However only around 1.8 million species have been identified and described so far and it means that millions of other organisms remain a complete mystery.

The journey of exploration of new organisms is always inspiring in science and the Zoological Survey of India is cope with new discoveries since its inception. Traditionally taxonomy has relied upon morphology as the method to describe the species and about 18,000 new species are being described per year which means it would take several hundred years to describe the estimated species of the globe. In order to speed up the identification process, the ZSI has introduced modern methods such as DNA barcoding, entire genome sequencing, X-rays etc. besides conventional taxonomy.

Further, to enhance the species discovery in India, the ZSI is periodically conducting capacity building programme under taxonomy especially on modern technology to foster high quality learning environment for field work, sample processing, imaging, data generation and analysis to enable researchers to build in-depth knowledge and to sustain life on earth.

During the course of scientific discoveries, it is the customary of ZSI to compile all the new animal descriptions of the year and publish the document on 'Animal Discoveries: New species and New records'. Like earlier years, 2019 is also illustrious in the history of Indian faunal discoveries with 364 new species and 116 new records which updated the Indian faunal diversity to the extent of 1,02,161 species equivalent to 6.52% of global share.

I applaud the contributions of ZSI fraternity for their extensive and rigid works behind the new findings which will be served as the baseline information to develop conservation and management plans of India's mega-biodiversity. I hope with greater encompass of mind that the future works and analytical bend of aptitude in ZSI will enumerate more explorations for thorough understating of the biological wealth of mother India.

Jai Hind.

[Kailash Chandra]

12th May 2020
Kolkata

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EXECUTIVE SUMMARY

Plain prinia
Prinia inornata

01

ANIMAL DISCOVERIES NEW SPECIES NEW RECORDS 2019

India is blessed with rich biodiversity in its wide ranges of habitats. The presence of optimal ecological traits supports India to harbor numerous biological organisms with plentiful endemic species which helped India to share 4 biological hotspots of the world with the recognition as one of the 18 mega-biodiverse countries. Taxonomical studies conducted in India by Zoological Survey of India (ZSI) since 1916 documented near about 7% of fauna of global share. The discoveries of the animals from India are taking positive swift during the last one decade with the findings of 2444 new species and 1208 new distributional records. ZSI is bringing out the Animal Discoveries based on the published literature every year since 2007. In 2019, a total of 368 new species with 294 invertebrates and 74 vertebrates (including four subspecies and four fossil species) and 116 new records of faunal communities are documented from India. The booklet ***Animal Discoveries***- 2019 epitomize the taxonomic efforts and initiatives of scientists to explore the undescribed species to increase the Indian faunal database. The species under different faunal groups described as new species as well as new record are given below.

Sl. No.	Faunal group	New Species	New Sub-Species	New fossil species	New Record to India
1.	Reptilia	26		1	
2.	Amphibia	10			
3.	Pisces	38			5
4.	Echinodermata	1			4
5.	Mollusca	2			13
6.	Tardigrada	1			
7.	Bryozoa	1			
8.	Trichoptera	6			1
9.	Orthoptera	8			
10.	Odonata	3			
11.	Megaloptera	1			
12.	Lepidoptera	14	1		2
13.	Thysanoptera				2
15.	Hymenoptera	50	3		12
16.	Hemiptera	52			6
17.	Isoptera	2			
18.	Ephemeroptera	6			4
19.	Diptera	16			4
20.	Coleoptera	38		3	14
21.	Collembola	6			
22.	Crustacea	10			14
23.	Arachnida	26			12
24.	Annelida				1
25.	Acanthocephala	4			
26.	Nematoda	11			3
27.	Gastrotricha				1
28.	Platyhelminthes	17			
29.	Cnidaria	4			4
30.	Porifera	1			
31.	Ciliophora	2			
32.	Protozoa	4			14
Total		**360**	**4**	**4**	**116**

INTRODUCTION

02

ANIMAL DISCOVERIES 2019

NEW SPECIES

NEW RECORDS

The Earth is the treasure trove for exponential biological diversity from polar region to the tropical region, from greater depth of the ocean to the highest peak of mountains. In order to document the biodiversity, the taxonomy plays a vital role. Taxonomy is the base of any scientific research, as knowing the accurate name of any organism is the foremost work before initiation of studies on that. It is evident that the taxonomical exploration was initiated near about 262 years ago and only around 1.8 million species across the world were named so far, out of the estimated 8.7 million species of the world, 1.5 million species are recognized as valid. Several estimations are made to address the total number of species of the world by several workers as per Convention on Biological Diversity (CBD). 5-30 million species are probably unknown till now while some ideologies suggested that the Earth is the home for around one trillion species. There is much variation and deviation in the estimated total number of species of this planet, but discovery or naming of species is exceptionally lower while the ecosystem wise data reveals that 85% of the terrestrial and 91% of marine species are yet to be described. As per the recent documentation on species discovery based on the morphological, molecular, anatomical, genetical, bio-chemical, behavioural and other aspects, it is found that a total of 15,000 to 18,000 species are being described annually across the globe, from all types of habitat. If the discoveries of the species are going on in the same speed, it will take several centuries to describe all the estimated species of the world.

Himalayan Griffon
Gyps himalayensis

The rate of species declination or extinction is drastically high and the global biodiversity is facing terrific threats of population and species depletion, as the results of anthropogenic activities and natural calamities. It is believed that 20% of organism will face extinction within 30 years while the ratio of elimination will be 50% in 100 years due to mostly anthropogenic means. When we are concerned about the biodiversity, the suggested result of species disappearance can be a serious matter of concern. Due to this hostile estimation of species loss, Convention on Biological Diversity (CBD) identified the reality of taxonomic impediments which will be managed through Global Taxonomic Initiative (GTI) across the world. The GTI, established by the Conference of the Parties (COP) will address the gaps in knowledge of taxonomic understanding, conservational issues and equitable sharing of the benefits with the involvement and enhancement of area-wise taxonomic information and expertise based on the genetic resources. It is always found that the studies on higher groups of organisms are comparatively high as well as extensive in all respects such as on their taxonomy, biology, distributional pattern and genetic relationship in comparison with the lower groups of organisms. The estimation also suggested 10% of vertebrates, 50% of terrestrial arthropods as well as near about 95% of protozoa are considered as undescribed.

Being one of the 18 Mega-diverse countries, India have four biodiversity hotspots among the 36 hotspots of the world. The geospatial location of India is most imperative ecological provision for the enormous biological diversity and are distributed in various habitats like the Himalayas, Deserts, Gangetic Plains, Deccan Plateau, Western Ghats, Islands, Coasts etc. as 10 potential biogeographic zones. Indian mainland and the islands denote amazing maritime features of this nation with 7516 km long coastline, 2.02 million sq. km. exclusive Economic Zone (EEZ) and a continental shelf area of 4,68,000 sq. km. The long coastline of India is composed of a variety of habitats such as sandy and rocky shores, mangrove forest, sea grass ecosystems, coastal estuaries, marsh and mudflats, brackish water lagoons, coastal areas shallow water fringing coral reefs etc. which are providing foremost ecological and livelihood services. The assortment of profuse sorts of habitats and ecosystems along with climatic factors intricate the huge biological diversity in Indian context which is required to be documented with greater concern as the development of any country is extremely dependent on the available bio-resources and their sustainable use. Identification of biological entities is a step forward for the certification of country's bio-resources in illustrated way.

Zoological Survey of India (ZSI) is serving the nation with some key mandates of exploration, survey, inventorization, taxonomic studies, status survey, maintenance of National Zoological Collections and Museum, Monitoring biodiversity, updating IW (P) A, IUCN & CITES list for the conservational strategies, training, capacity building and human resource development for conservation and faunal identification etc., since more than a century in all the ecosystems and habitats of India. The faunal inventory based on conventional as well as molecular approaches of taxonomical identification by scientists from ZSI and other institutes reveal more than one lakh of animals from Protozoa to Mammalia across India.

During 2019, a total of 368 new species (including four subspecies and four fossil species) and 116 new records of faunal communities are documented from India which makes the faunal diversity in India to the extent of 1,02,161 species equivalen to 6.52% of global diversity (Table 1). Among them 294 are invertebrates and 74 are vertebrates. Out of invertebrates, the credential of insects as new species and new record is reasonably high while among the vertebrates, pisces and reptiles are representing major success. The number of fishes and reptiles are found steadily increasing. If we look into it in zoo-geographical perspective, most of the new species are found emerging from the hotspots. The number of taxonomists in India is insufficient to study our biodiversity with greater extent. We should be more comprehensive on the taxonomical approaches along with the growing taxonomic expertize to resolve the hidden and undescribed species diversity of India. Like the global scenario, the biodiversity of India is also facing threats from various aspects either anthropogenic or natural; resulted in the extinction of the species even before their taxonomical naming. It is the prime time for us to address the taxonomical gaps of species identification with the help of modern methods besides conventional taxonomy, while ZSI has already framed and been carrying out remarkable works by disseminating the benefit sharing of taxonomical knowledge for naming the undescribed species in improved way.

The data analysis of last one decade reveals that a total of 2444 species of faunal communities are newly described from India while the maximum of 372 species were described in 2018 and minimum of 28 species in 2010 while 1208 species were added to Indian faunal database the new distributional record including the highest of 257 species in 2010 and lowest of 46 species in 2009 (Fig. 1). It is also important to state that scientists of ZSI alone have contributed nearly 36% (887 species) of total newly described and 70% (858 species) of newly recorded species during the last 10 years (Fig. 1). The group-wise faunal inventory during the last 10 years suggested that maximum of 1726 species are newly described under the Phylum Arthropoda while only one species is described under the Phyla Nematomorpha and Tardigrada among the invertebrates while among the vertebrates maximum of 229 species of fishes and minimum of only one species of mammal are described (Fig. 2). Among the new distributional records, maximum of 3411 species of arthropods are recorded from India (Fig. 2).

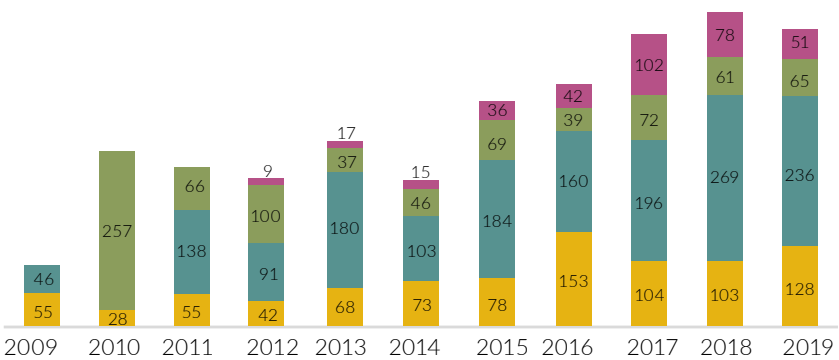


Fig 1: Addition of new species and new records of fauna in India during last 10 years

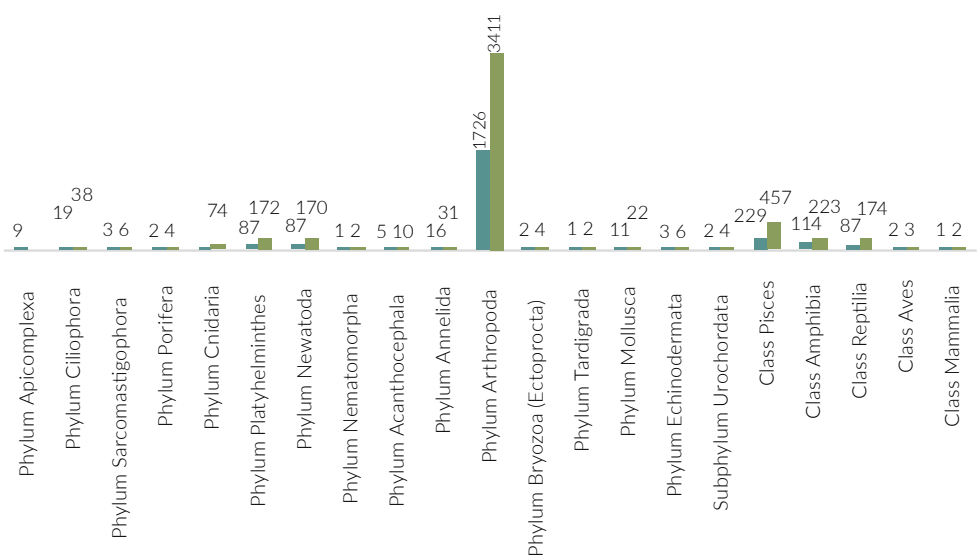


Fig 1: Addition of group-wise new species and new records of fauna in India during last 10 years

Table 1
Number of Animal species known from India (Updated: December, 2019)

Kingdom	Phylum	Number of Species		%
		World (ZSI 2017)	India	
Protista		36,400	3545	9.73
	Phylum Mesozoa	122	10	8.19
	Phylum Porifera	8,838	550	6.22
	Phylum Cnidaria	11,522	1453	12.61
	Phylum Ctenophora	199	19	9.54
	Phylum Platyhelminthes	29,487	1789	6.06
	Phylum Rotifera	2,049	467	22.79
	Phylum Gastrotricha	828	163	19.68
	Phylum Kinorhyncha	196	10	5.10
	Phylum Nematoda	25,033	2984	11.92
Animalia	Phylum Acanthocephala	1,330	306	23.00
	Phylum Sipuncula	156	41	26.28
	Phylum Echiura	198	47	23.73
	Phylum Annelida	17,388	1035	5.95
	Phylum Onychophora	183	1	0.54
	Phylum Arthropoda	12,57,040	76461	6.08
	Subphylum Chelicerata	1,13,773	6083	5.34
	Class Arachnida	1,12,442	6045	5.37
	Class Merostomata	4	2	50.00
	Class Pycnogonidia	1,335	36	2.69
	Subphylum Crustacea	67,735	3909	5.77
	Subphylum Hexapoda	10,63,533	66087	6.21
	Class Collembola	8,162	339	4.15
	Class Diplura	975	18	1.84
	Class Protura	816	20	2.45
	Class Insecta	10,53,578	65710	6.23
	Subphylum Myriapoda	11,999	382	3.18
	Class Chilopoda	3,112	101	3.24
	Class Diplopoda	7,837	271	3.45
	Class Symphyla	204	10	4.90
	Phylum Phoronida	16	3	18.75
	Phylum Bryozoa (Ectoprocta)	6186	337	5.44
	Phylum Entoprocta	186	10	5.37
	Phylum Brachiopoda	392	8	2.04
	Phylum Chaetognatha	170	44	25.88
	Phylum Tardigrada	1,167	31	2.65
	Phylum Mollusca	84,978	5227	6.15
	Phylum Nemertea	1,368	6	0.43
	Phylum Echinodermata	7,550	784	10.38
	Phylum Hemichordata	139	14	10.07
	Phylum Chordata	71,526	6816	9.52
	Subphylum Cephalochordata	33	6	18.18
	Subphylum Urochordata	2,804	531	18.93
	Subphylum Vertebrata (Craniata)	66,689	6279	9.41
	Class Pisces	34,362	3439	10.00
	Class Amphibia	7,667	427	5.56
	Class Reptilia	10,450	641	6.13
	Class Aves	10,357	1343	12.96
	Class Mammalia	5,853	429	7.32
Total (Animalia)		15,28,247	98,616	6.45
Grand Total (Protista + Animalia)		15,64,647	1,02,161	6.52

Robber Crab Birgus latro
(Linnaeus, 1767)

NEW SPECIES

03

ANIMAL DISCOVERIES 2019

NEW SPECIES

NEW RECORDS

3.1. Reptilia

Phylum
CHORDATA

Class
REPTILIA

Order
SQUAMATA

Family
AGAMIDAE

Genus
***Calotes* Cuvier, 1817**

Calotes zolaiking Giri, Chaitanya, Mahony, Lalronunga, Lalrinchhana, Das, Sarkar, Karanth and Deepak. *Zootaxa*, 4638 (4): 451–484, 2019

The species *Calotes zolaiking* was described by Varad. B. Giri, R. Chaitanya, Stephen Mahony, Samuel Lalronunga, C. Lalrinchhana, Abhijit Das, Vivek Sarkar, Praveen Karanth and V. Deepak based on a Holotype and four Paratypes collected from Mizoram, Aizawl district, Durtlang, Synod Hospital Compound 1290 m (23°46'19.06''N and 92°43'56.37''E) and one Paratype collected from Hmuifang 1478 m (23°27'17.93''N and 92°45'07.05''E). The type specimens have been deposited in National Centre for Biological Sciences, Bangalore, Karnataka (NCBS) and Bombay Natural History Society, Mumbai, Maharashtra (BNHS). The species is named for its occurrence in high elevation regions.

Calotes zolaiking Giri, Chaitanya, Mahony, Lalronunga, Lalrinchhana, Das, Sarkar, Karanth and Deepak 2019

Family
COLUBRIDAE

Genus
***Ahaetulla* Link, 1807**

Ahaetulla laudankia Deepak, Narayanan, Sarkar, Dutta and Mohapatra. *Journal of Natural History*, 53 (9-10): 497-516, 2019

The species *Ahaetulla laudankia* was described by V. Deepak, Surya Narayanan, Vivek Sarkar, Sushil K. Dutta and Pratyush P. Mohapatra based on a Holotype collected from Odisha, Mayurbhanj district, Bangriposi (22.142167N and 86.520025E) and two Paratypes collected from different localities of Odisha. The type specimens have been deposited in National Zoological Collection (NZC) at Central Zone Regional Centre, Zoological Survey of India, Jabalpur, Madhya Pradesh (ZSI-CZRC) and Zoological Survey of India, Kolkata (ZSIK). The species name, "laudankia", refers to the vernacular name of the species in Odia.

Ahaetulla laudankia Deepak, Narayanan, Sarkar, Dutta and Mohapatra 2019

Genus ***Proahaetulla* Mallik, Achyuthan, Ganesh, Pal, Vijayakumar and Shanker, 2019**

Proahaetulla antiqua Mallik, Achyuthan, Ganesh, Pal, Vijayakumar and Shanker. *PLoS ONE*, DOI: 10.1371/journal.pone.0218851, 2019

The genus *Proahaetulla* and species *Proahaetulla antiqua* were described by A. K. Mallik, N. S. Achyuthan, S. R. Ganesh, S. P. Pal, S.P. Vijayakumar and K. Shanker based on a Holotype collected from Tamil Nadu, Kalakad Mundanthurai Tiger Reserve, Agasthyamalai hills (8°37'09"N and 77°14'57"E) and one Paratype collected from Kerala, Thenmala, Shendurney Wildlife Sanctuary, Pandimotta (8°49'35"N and 77°13'02"E). The type specimens have been deposited in the museum collection of the Center of Ecological Sciences, Indian Institute of Science, Bangalore, India (CES). The generic name is derived from *Ahaetulla* indicating early divergence of the lineage from the rest of the Ahaetuliinae members and the species name is Latin for 'antique'.

Proahaetulla antiqua Mallik, Achyuthan, Ganesh, Pal, Vijayakumar and Shanker 2019

Genus ***Smithophis* Giri, Gower, Das, Lalremsanga, Lalronunga, Captain, & Deepak, 2019**

Smithophis atemporalis Giri, Gower, Das, Lalremsanga, Lalronunga, Captain, & Deepak. *Zootaxa*, 4603 (2): 241-264, 2019

The genus *Smithophis* and species *Smithophis atemporalis* were described by V. B. Giri, D. J. Gower, A. Das, H.T. Lalremsanga, S. Lalronunga, A. Captain and V. Deepak based on a Holotype and six Paratypes collected from Mizoram, Mizoram University Campus, Aizawl, 833 m (23.76338°N and 93.09916°E). The type specimens have been deposited in BNHS. The genus is named in honor of Malcolm A. Smith and the species name refers to the lack of temporal shields, a key character of the new species.

Smithophis atemporalis Giri, Gower, Das, Lalremsanga, Lalronunga, Captain, & Deepak 2019

Family
GEKKONIDAE

Genus
***Cnemaspis* Strauch, 1887**

Cnemaspis aaronbaueri Sayyed, Grismer, Campbell and Dileepkumar *Zootaxa*, 4656 (3): 501–514, 2019

The species *Cnemaspis aaronbaueri* was described by A. Sayyed, L. Lee Grismer, Patrick D Campbell and R. Dileepkumar based on a Holotype and two Paratypes collected from Kerala, Kollam District, Thenmala, 218m (8.959972°N and 77.07517°E). The type specimens have been deposited in the collection of the BNHS. The species has been named in honor of Dr. Aaron M. Bauer.

Cnemaspis aaronbaueri Sayyed, Grismer, Campbell and Dileepkumar 2019

Cnemaspis agarwali Khandekar. *Zootaxa*,4571 (3): 383–397, 2019

The species *Cnemaspis agarwali* was described by A. Khandekar based on a Holotype and eight Paratypes collected from Tamil Nadu, Salem district, Sankari, near Kidayur road (11.500°N and 77.859°E). The type specimens have been deposited in the collection facility of NCBS (Akshay Khandekar field series: AK) and BNHS. The species has been named in honor of Ishan Agarwal.

Cnemaspis agarwali Khandekar 2019

Cnemaspis amba Khandekar, Thackeray and Agarwal. *Zootaxa*, 4656 (1): 043–070, 2019

The species *Cnemaspis amba* was described by A. Khandekar, T. Thackeray and I. Agarwal based on a Holotype and four Paratypes collected from Maharashtra, Kolhapur district, near Amba, Manoli village, near Kokan Darshan Point (16.928°N and 73.796°E). The type specimens have been deposited in the museum and research collection facility at the BNHS and NCBS, Bengaluru. The species name refers to the type locality.

Cnemaspis amba Khandekar, Thackeray and Agarwal 2019

Cnemaspis anandani Murthy, Nitesh, Sengupta and Deepak. *Records of Zoological Survey of India*, 119 (3): 211-226, 2019

The species *Cnemaspis anandani* was described by B.H. C. K. Murthy, A. Nitesh, S. Sengupta and P. Deepak based on a Holotype and eight Paratypes collected from Tamil Nadu, Nilgiri district, 6.2 kms from Kothagiri village, Horasholai 1990 m (11.416N and 76.82E). The type specimens have been deposited in NZC Zoological Survey of India, Western Ghats Regional Centre, Kozhikode, Kerala (ZSI-WGRC). The species has been named in honor of Anandan Sethuraman.

Cnemaspis anandani Murthy, Nitesh, Sengupta and Deepak 2019

Cnemaspis koynaensis Khandekar, Thackeray and Agarwal. *Zootaxa*, 4656 (1): 043–070, 2019

The species *Cnemaspis koynaensis* was described by A. Khandekar, T. Thackeray and I.Agarwal based on a Holotype and eight Paratypes collected from Maharashtra, Satara District, near Koyna, Humbarli village, near Dhanagarwada (17.413°N and 73.731°E). The type specimens have been deposited in the museum and research collection facility at the BNHS and the NCBS, Bengaluru. The species name refers to the type locality.

Cnemaspis koynaensis Khandekar, Thackeray and Agarwal 2019

Cnemaspis shevaroyensis Khandekar, Gaitonde and Agarwal. *Zootaxa*, 4690 (1): 068-100, 2019

The species was described by A. Khandekar, N. Gaitonde and I. Agarwal based on a Holotype collected from Tamil Nadu, Salem district, in the Shevaroys, Yercaud, near Kottachedu Kari Raman Temple (11.819° N and 78.270E°). The type specimens have been deposited at the NCBS and BNHS. The species name is a toponym for the Shevaroy massif.

Cnemaspis shevaroyensis Khandekar, Gaitonde and Agarwal 2019

Cnemaspis thackerayi Khandekar, Gaitonde and Agarwal 2019

Cnemaspis thackerayi Khandekar, Gaitonde and Agarwal. *Zootaxa*, 4690 (1): 068-100, 2019

The species *Cnemaspis thackerayi* was described by A. Khandekar, N. Gaitonde and I. Agarwal based on a Holotype and six Paratypes collected from Tamil Nadu, Salem district, near Grange resort, Yercaud town, in the Shevaroys, 1388m (11.775°N and 78.219°E). The type specimens have been deposited at the NCBS and BNHS. The species name is a patronym in recognition of the contributions of natural history and systematic zoology of Mr. Tejas Thackeray's dwarf gecko.

Genus
Dravidogecko
Smith, 1933

Dravidogecko douglasadamsi Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth. *Zootaxa*, 4688 (1): 001–056, 2019

The species *Dravidogecko douglasadamsi* was described by R. Chaitanya, Varad B. Giri, V. Deepak, A. Datta-Roy, B.H.C.K Murthy & Praveen Karanth based on a Holotype collected from Tamil Nadu, Tirunelveli district, Manjolai 1300 m (8.5514°N and 77.3597°E). The type specimens have been deposited in BNHS. The species is named in honor of Douglas Noel Adams, an English author.

Dravidogecko douglasadamsi Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth 2019

Dravidogecko janakiae Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth. *Zootaxa*, 4688 (1): 001–056, 2019

The species *Dravidogecko janakiae* was described by R. Chaitanya, Varad B. Giri, V. Deepak, Aniruddha Datta-Roy, B.H.C.K Murthy & P. Karanth based on a Holotype and six Paratypes collected from Kerala, Idukki district, Munnar town, 1900 m (10.1436°N and 77.0927°E). The type specimens have been deposited in BNHS and ZSI-WGRC. The species name is an eponym honouring Kerala-born Janaki Ammal, the first Indian woman to obtain a doctorate in Botany.

Dravidogecko janakiae Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth 2019

Dravidogecko meghamalaiensis Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth. *Zootaxa*, 4688 (1): 001–056, 2019

The species *Dravidogecko meghamalaiensis* was described by R. Chaitanya, Varad B. Giri, V. Deepak, A. Datta-Roy, B.H.C.K Murthy and P. Karanth based on a Holotype and eight Paratypes collected from Tamil Nadu, Theni district, Meghamalai, 1480 m (9.6925°N, 77.3992°E). The type specimens have been deposited in BNHS and ZSI-WGRC. The species name refers to the type locality.

Dravidogecko meghamalaiensis Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth 2019

Dravidogecko septentrionalis Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth. *Zootaxa*, 4688 (1): 001–056, 2019

The species *Dravidogecko septentrionalis* was described by R. Chaitanya, Varad B. Giri, V. Deepak, A. Datta-Roy, B.H.C.K Murthy & P. Karanth based on a Holotype and nine Paratypes collected from Kerala, Wayanad district, Lakkidi village 873 m (11.5184°N and 76.0451°E). The type specimens have been deposited in BNHS and ZSI-WGRC. The species name refers to the distribution of this species to the north of the Palghat Gap.

Dravidogecko septentrionalis Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth 2019

Dravidogecko smithi Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth. *Zootaxa*,4688 (1): 001–056, 2019

The species *Dravidogecko smithi* was described by R. Chaitanya, Varad B. Giri, V. Deepak, A. Datta-Roy, B.H.C.K Murthy and P. Karanth based on a Holotype and one Paratype collected from Kerala, Tiruvananthapuram district, Ponmudi hills, 920 m (8.7570°N, 77.1145°E). The type specimens have been deposited in BNHS and ZSI-WGRC. The species name is an eponym honouring British herpetologist Malcolm Arthur Smith.

Dravidogecko smithi Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth 2019

Dravidogecko tholpalli Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth. *Zootaxa*,4688 (1): 001–056, 2019

The species *Dravidogecko tholpalli* was described by R. Chaitanya, Varad B. Giri, V. Deepak, A. Datta-Roy, B.H.C.K Murthy & P. Karanth based on a Holotype and one Paratype collected from Tamil Nadu, Dindigul district, Kodaikanal town, 2110 m (10.2334°N, 77.4910°E). The type specimens have been deposited in BNHS and ZSI-WGRC. The species name is a combination of two Tamil words 'thol' meaning 'ancient' and 'palli' meaning 'gecko'.

Dravidogecko tholpalli Chaitanya, Giri, Deepak, Datta-Roy, Murthy and Karanth 2019

Genus
Hemidactylus
Oken, 1817

Hemidactylus chikhaldaraensis Agarwal, Bauer, Giri and Khandekar. *Zootaxa*,4619 (3): 431-458, 2019

The species *Hemidactylus chikhaldaraensis* was described by I. Agarwal, A. M. Bauer, Varad B. Giri and A. Khandekar based on a Holotype collected from Maharashtra, Amravati district, Chikhaldara, near Gawilgarh Fort 1040 m (21.38526°N and 77.33404°E). The type specimen has been deposited in the NCBS. The species name refers to the type locality.

Hemidactylus chikhaldaraensis Agarwal, Bauer, Giri and Khandekar 2019

Hemidactylus kolliensis Agarwal, Bauer, Giri and Khandekar. *Zootaxa*, 4619 (3): 431-458, 2019

The species *Hemidactylus kolliensis* was described by I. Agarwal, A. M. Bauer, Varad B. Giri and A. Khandekar based on a Holotype collected from Tamil Nadu, Namakkal district, from below Sollakadu on Kolli Hills Road (11.323295°N and 78.344492°E). The type specimen has been deposited in the BNHS. The species name refers to the type locality.

Hemidactylus kolliensis Agarwal, Bauer, Giri and Khandekar 2019

Hemidactylus sankariensis Agarwal, Bauer, Giri and Khandekar. *Zootaxa*, 4619 (3): 431-458, 2019

The species *Hemidactylus sankariensis* was described by I. Agarwal, A. M. Bauer, Varad B. Giri and A. Khandekar based on a Holotype and four Paratypes collected from Tamil Nadu, Salem district, Sankari, near Kidayur road (11.500°N and 77.859°E). The type specimens have been deposited in the NCBS and BNHS. The species name refers to the type locality.

Hemidactylus sankariensis Agarwal, Bauer, Giri and Khandekar 2019

Hemidactylus varadgirii Chaitanya, Agarwal, Lajmi and Khandekar. *Zootaxa* 4646 (2): 236-250, 2019

The species *Hemidactylus varadgirii* was described by R. Chaitanya, I. Agarwal, A. Lajmi and A. Khandekar based on a Holotype and four Paratypes collected from Maharashtra, Amboli 740 m (15.9590°N and 73.9970°E). The type specimens have been deposited in BNHS. The species name is Latinized patronym in honour of Varad Giri.

Hemidactylus varadgirii Chaitanya, Agarwal, Lajmi and Khandekar 2019T

Genus
Hemiphyllodactylus
Bleeker, 1860

Hemiphyllodactylus arakuensis Agarwal, Khandekar, Giri, Ramakrishnan and Karanth. *Organisms Diversity & Evolution*, 19: 341-361, 2019

The species *Hemiphyllodactylus arakuensis* was described by I. Agarwal, A. Khandekar, V. B. Giri, U. Ramakrishnan and K. P. Karanth based on a Holotype and seven Paratypes collected from Andhra Pradesh, Visakhapatnam district, Araku, Forest Rest House 940 m (18.326°N and 82.877°E). The species name refers to the type locality, Araku.

Hemiphyllodactylus jnana Agarwal, Khandekar, Giri, Ramakrishnan and Karanth. *Organisms Diversity & Evolution*, 19: 341-361, 2019

The species *Hemiphyllodactylus jnana* was described by I. Agarwal, A. Khandekar, V. B. Giri, U. Ramakrishnan and K. P. Karanth based on a Holotype collected from Karnataka, Bangalore, NCBS campus, Bangalore (13.072°N and 77.581°E) and twelve Paratypes collected from different localites of Karnataka and Tamil Nadu. The type specimens have been deposited in NCBS, Bangalore. The species name *"jnana"* is the Kannada word for knowledge.

Hemiphyllodactylus kolliensis Agarwal, Khandekar, Giri, Ramakrishnan and Karanth. *Organisms Diversity & Evolution*, 19: 341-361, 2019

The species *Hemiphyllodactylus kolliensis* was described by I. Agarwal, A. Khandekar, V. B. Giri, U. Ramakrishnan and K. P. Karanth based on a Holotype collected from Tamil Nadu, Namakkal district, near Selur Nadu, Kolli Hills 1100 m (11.219°N and 78.354°E) and three Paratypes collected from different localities of Tamil Nadu. The type specimens have been deposited in CES and NCBS, Bangalore. The species name refers to the type locality.

Family
NATRICIDAE

Genus
***Hebius* Thompson, 1913**

Hebius lacrima Purkayastha and David. *Zootaxa*, 4555 (1): 079-090, 2019

The species *Hebius lacrima* was described by J. Purkayastha and P. David based on a Holotype collected from Arunachal Pradesh, West Siang District, Basar, 600 m (27.980559°N and 94.688496°E). The type specimens have been deposited in Zoological Survey of India, North Eastern Regional Station, Shillong (ZSI-NERC). The species name is derived from the Latin noun *Lacrima*, meaning "a tear", referring to the dark area under the eye looking like a black tear.

Hebius lacrima
Purkayastha and
David 2019

Trachischium apteii Bhosale, Gowande and Mirza. *Comptes Rendus Biologies*, DOI: 10.1016/j.crvi.2019.10.003, 2019

The species *Trachischium apteii* was described by H. S. Bhosale, G. G. Gowande and Z. A. Mirza based on a Holotype and a Paratype collected from Arunachal Pradesh, Talle Valley Wildlife Sanctuary, Pange camp, 1890 m (27.549322°N and 93.897138°E). The type specimens have been deposited in BNHS. The species has been named in honor of Dr. Deepak Apte.

Trachischium apteii Bhosale, Gowande and Mirza 2019

Fossil Species

Phylum **CHORDATA**

Class **REPTILIA**

Order **PHYTOSAURIA**

Family **PARASUCHIDAE**

Genus ***Volcanosuchus*** **Datta, Ray and Bandyopadhyay, 2019**

Volcanosuchus statisticae Datta, Ray and Bandyopadhyay. *The Palaeontological Association*, DOI: 10.1002/spp2.1292, 2019

The genus *Volcanosuchus* and the species *Volcanosuchus statisticae* was described by D. Datta, S. Ray and S. Bandyopadhyay based on a Holotype collected from Madhya Pradesh, Shahdol district, upper Triassic Tiki Formation of the Rewa Gondwana Basin, near Tihki village (23°56′N and 81°22′E). The generic name is derived from the Latin word 'volcanus' referring to the raised dome-like narial prominence, which resembles a high volcanic crater in lateral view, and 'suchus' meaning crocodile-like and the species is named after the Indian Statistical Institute, Kolkata (ISI).

3.2. Amphibia

Liurana himalayana Saikia and Sinha. *Records of Zoological Survey of India*, 119 (4): 303-315, 2019

The species *Liurana himalayana* was described by B. Saikia and B. Sinha based on a Holotype collected from Arunachal Pradesh, Lower Subansiri District, Talley Valley WLS, collected between Pange & Maniployang (27.5477N and 93.8978E) and one Paratype collected from Arunachal Pradesh, Lower Subansiri District, Talley Valley WLS, Talley Camp (27.5341N and 93.9515E). The type specimens have been deposited in the collection of the ZSI-NERC. The species name is a toponym as the type locality is located in the southern slope of the Eastern Himalayas.

Liurana himalayana Saikia and Sinha 2019

Phylum
CHORDATA

Class
AMPHIBIA

Order
ANURA

Family
CERATOBATRACHIDAE

Genus
***Liurana* Dubois, 1987**

Liurana indica Saikia and Sinha. *Records of Zoological Survey of India*, 119 (4): 303-315, 2019

The species *Liurana indica* w as described by B. Saikia and B. Sinha based on a Holotype collected from Arunachal Pradesh, Lower Subansiri District, Talley Valley WLS, Tragopan Point (27.5412N and 93.9299E). The type specimen has been deposited in the collection of the ZSI-NERC. The species is named after India.

Liurana indica Saikia and Sinha 2019

Liurana minuta Saikia and Sinha. *Records of Zoological Survey of India*, 119 (4): 303-315, 2019

The species *Liurana minuta* was described by B. Saikia and B. Sinha based on a Holotype collected from Arunachal Pradesh, Lower Subansiri District, Talley Valley WLS,collected from 5 km N of Pange (27.5595N and 93.9083E). The type specimen has been deposited in the collection of the ZSI-NERC. The species name refers to the small size of the frog.

Liurana minuta Saikia and Sinha 2019

Family
DICROGLOSSIDAE

Genus
Fejervarya
Bolkay, 1915

Fejervarya marathi Phuge, Dinesh, Andhale, Bhakare and Pandit. *Zootaxa*, 4544 (2): 251–268, 2019

The species *Fejervarya marathi* was described by S. Phuge, K.P. Dinesh, R. Andhale, K. Bhakare and R. Pandit based on a Holotype and two Paratypes collected from Maharashtra, Pune, Bhamburde village, 670 m (18.5509N and 73.3790E). The type specimens have been deposited in Zoological Survey of India, Western Regional Centre, Pune (ZSI-WRC). The species is named after language *"Marathi"*,one of the predominant language used in the northern Western Ghats.

Fejervarya marathi Phuge, Dinesh, Andhale, Bhakare and Pandit 2019

Genus
Sphaerotheca
Gunther, 1859

Sphaerotheca magadha Prasad, Dinesh, Das, Swamy, Shinde and Vishnu. *Records of Zoological Survey India*, 119 (3): 197-210, 2019

The species *Sphaerotheca magadha* was described by V. K. Prasad, K. P. Dinesh, A. Das, P. Swamy, A. D. Shinde and J. B. Vishnu based on a Holotype and two Paratypes collected from Jharkhand, Koderma, Nawadih village, 380 m (24.4179N and 85.4680E). The type specimens have been deposited in ZSI-WRC. The species name is derived from the term 'Magadha', an ancient kingdom located on the Indo-Gangetic plains in Jharkhand.

Sphaerotheca magadha Prasad, Dinesh, Das, Swamy, Shinde and Vishnu 2019

Microhyla eos Biju, Garg, Kamei and Maheswaran. *Zootaxa*, 4674 (1): 100–116, 2019

The species *Microhyla eos* was described by S.D. Biju, S. Garg, R. Kamei and G. Maheswaran based on a Holotype and two Paratypes collected from Arunachal Pradesh, Changlang district, Namdapha National Park, Rani Jheel, 860 m (27°32′20.5″N and 96°29′17.6″E). The type specimens have been deposited in ZSIK. The species is named after the mythological Greek goddess of dawn.

Family
MICROHYLIDAE

Genus
***Microhyla* Tschudi, 1838**

Microhyla eos Biju, Garg, Kamei and Maheswaran 2019

Micryletta aishani Das, Garg, Hamidy, Smith and Biju *PeerJ*, DOI: 10.7717/peerj.7012, 2019

The species *Micryletta aishani* was described by A. Das, S. Garg, A. Hamidy, Eric N. Smith and S.D. Biju based on a Holotype and eight Paratypes collected from Assam, Cachar district, Subhong, 110 m (24°58′34″N and 92°47′45″E). The type specimens have been deposited at ZSIK. The species name is derived from the Sanskrit word *aishani* meaning north-east, referring to the Northeast regions of India where this frog was discovered.

Genus
***Micryletta* Dubois, 1987**

Micryletta aishani Das, Garg, Hamidy, Smith and Biju 2019

Genus
Mysticellus Garg & Biju, 2019

Mysticellus franki Garg & Biju. _Scientific Reports_, 9:1906, 2019

The genus *Mysticellus* and the species *Mysticellus franki* was described by S. Garg and S.D. Biju based on a Holotype and six Paratypes collected from Kerala, Wayanad district, Suganthagiri, 852 m (11°32′19″N and76°3′14″E). The type specimens have been deposited in ZSI-WGRC. The generic name is derived from the Latin word *mysticus* meaning mysterious and *ellus* a diminuitive, highlighting its ability to remain out of sight despite its occurrence in areas surrounding human settlements and the species is named in honor of Prof Franky Bossuyt, an evolutionary biologist.

Mysticellus franki Garg & Biju 2019

Family
NYCTIBATRACHIDAE

Genus
Astrobatrachus Vijayakumar, Pyron, Dinesh, Torsekar, Srikanthan, Swamy, Stanley, Blackburn and Shanker, 2019

Astrobatrachus kurichiyana Vijayakumar, Pyron, Dinesh, Torsekar, Srikanthan, Swamy, Stanley, Blackburn and Shanker. _PeerJ_, DOI: 10.7717/peerj. 6457, 2019

The genus *Astrobatrachus* and the species *Astrobatrachus kurichiyana* weres described by S. P. Vijayakumar, R. A. Pyron, K. P. Dinesh, V. R. Torsekar, A. N. Srikanthan, P. Swamy, E. L. Stanley, D. C. Blackburn and K. Shanker based on a Holotype and two Paratypes collected from Kerala, Western Ghats, Wayanad Plateau, Kurichiyarmala (11.602807°N and 75.968025°E). The type specimens have been deposited at the ZSI-WRC. The genus name is derived from the Greek word *astro* meaning star referring to the starry spots on the lateral sides of the body and *batrachus* meaning frog and the species name is derived from *Kurichiyana*, a local tribal community residing near the type locality.

Astrobatrachus kurichiyana Vijayakumar, Pyron, Dinesh, Torsekar, Srikanthan, Swamy, Stanley, Blackburn and Shanker 2019

Polypedates bengalensis Purkayastha, Das, Mondal, Mitra, Chaudhuri and I. Das. *Zootaxa*, 4691 (5): 525–540, 2019

The species *Polypedates bengalensis* was described by J. Purkayastha, M. Das, K. Mondal, S. Mitra, A. Chaudhuri and I. Das based on a Holotype and two Paratypes collected from West Bengal, South 24 Parganas district, Khordanahala, 7 m above sea level (22.2 47719°N and 88.144078°E) and five Paratypes collected from North 24 Parganas district, Badu, 13 m above sea level (22.692860°N and 88.505926°E). The type specimens have been deposited in the NZC ZSI-NERC. The species name refers to the type locality, West Bengal.

Polypedates bengalensis Purkayastha, Das, Mondal, Mitra, Chaudhuri and I. Das 2019

Family
RHACOPHORIDAE

Genus
Polypedates
Tschudi, 1838

3.3. Pisces

Phylum
CHORDATA

Class
ACTINOPTERYGII

Order
ANABANTIFORMES

Family
CHANNIDAE

Genus
***Aenigmachanna* Britz, Anoop, Dahanukar & Raghavan, 2019**

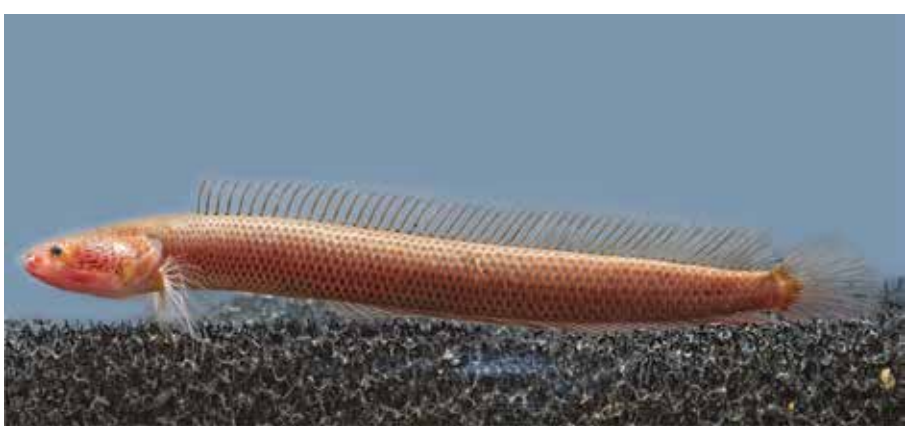
Aenigmachanna gollum Britz, Anoop, Dahanukar and Raghavan. *Zootaxa*, 4603 (2): 377–388, 2019

The genus *Aenigmachanna* and species *Aenigmachanna gollum* was described by R. Britz, V.K. Anoop, N. Dahanukar and R. Raghavan based on a Holotype and a Paratype collected from Kerala, Malappuram, Oorakam (11°03′52″N and 76°01′00″E). The Type specimens have been deposited in BNHS.The genus name is derived from the Latin word aenigma and Channa, the genus name of Asian snakeheads and the species is named after Gollum, a character from J. R. R. Tolkien's books 'The Hobbit' and 'The Lord of the Rings'.

Aenigmachanna gollum Britz, Anoop, Dahanukar and Raghavan 2019

Aenigmachanna mahabali Kumar, Basheer and Ravi. *Zootaxa*, 4638 (3): 410–418, 2019

The species *Aenigmachanna mahabali* was described by R. G. Kumar, V.S. Basheer and C. Ravi based on a Holotype collected from Kerala, Peringara, near Thiruvalla in Pathanamthitta district.The type specimens have been deposited in Indian Council of Agricultural Research (ICAR)-National Bureau of Fish Genetic Resources, Lucknow. The species has been named after Mahabali, a king in the mythology of Kerala.



Aenigmachanna mahabali Kumar, Basheer and Ravi 2019

Genus
Channa
Scopoli, 1777

Channa brunnea Praveenraj, Uma, Moulitharan and Kannan. *Zootaxa*, 4624 (1): 059–070, 2019

The species *Channa brunnea* was described by J. Praveenraj, A. Uma, N. Moulitharan and R. Kannan based on a Holotype and nine Paratypes collected from West Bengal, Jalpaiguri district, a swamp in Bhalka forest in the vicinity of the Sankosh River (26°30′3.6″N and 89°50′32.6″E). The type specimens have been deposited in ZSIK and personal collections of J. Praveenraj. The species name is a Latin adjective for "brown".

Channa brunnea Praveenraj, Uma, Moulitharan and Kannan 2019

Channa lipor Praveenraj, Uma, Moulitharan, and Singh. *Copeia*,107 (1):61–70, 2019

The species *Channa lipor* was described by J. Praveenraj, A. Uma, N. Moulitharan, and S. G. Singh based on a Holotype and ten Paratypes collected from Meghalaya, Ri-Bhoi district, Umraling village, Umraling River (25842022.1100N and 92807053.0200E). The type specimens have been deposited in ZSIK and Central Inland Agricultural Research Institute (CIARI), Port Blair and personal collections of J. Praveenraj. The species name *lipor* indicates the local vernacular name for the species in Khasi language.

Channa lipor Praveenraj, Uma, Moulitharan, and Singh 2019

Channa rara Britz, Dahanukar, Anoop and Ali. *Zootaxa*, 4683 (4): 589–600, 2019

The species *Channa rara* was described by R. Britz, N. Dahanukar, V.K. Anoop and A. Ali based on a Holotype and two Paratypes collected from Maharashtra, Ratnagiri District, Jagbudi River near Khopi Village, on road Kumbhad—Shirgaon, Khed Taluka (17.68°N and 73.52°E). The type specimens have been deposited in the BNHS. The species name *rara* is named after Rajeev Raghavan, Indian ichthyologist.

Channa rara Britz, Dahanukar, Anoop and Ali 2019

Channa torsaensis Dey, Nur, Raychowdhury, Sarkar, Singh and Barat. *International Journal of Pure and Applied Bioscience*,6: 497-503, 2018

The species *Channa torsaensis* was described by A. Dey, R. Nur, B. Raychowdhury, D. Sarkar, L. K. Singh and S. Barat based on a Holotype and four Paratypes collected from West Bengal, Alipurduar district, Dakshin Barajhar forest (26°53′34″N and 89°32′52″E). The type specimens are deposited in ZSIK. The new species is named after the River Torsa, from where the fish was collected.

Channa torsaensis Dey, Nur, Raychowdhury, Sarkar, Singh and Barat 2019

Order
ANGUILLIFORMES

Family
MURAENIDAE

Genus
Gymnothorax
Bloch, 1795

Gymnothorax andamanensis Mohapatra, Kiruba-Sankar, Praveenraj and Mohanty. *Zootaxa*, 4661 (1): 189–196, 2019

The species *Gymnothorax andamanensis* was described by A. Mohapatra, R. Kiruba-Sankar, J. Praveenraj and S. R. Mohanty based on a Holotype and one Paratype collected from South Andaman, Port Blair, Port Mout. The type specimens have been deposited in the Museum of Estuarine Biology Regional Centre, Zoological Survey of India, Odisha, India (ZSI-EBRC) and CIARI. The species name refers to the type locality.

Gymnothorax andamanensis Mohapatra, Kiruba-Sankar, Praveenraj and Mohanty 2019

Gymnothorax smithi Sumod, Mohapatra, Sanjeevan, Kishor and Bineesh 2019

Gymnothorax smithi Sumod, Mohapatra, Sanjeevan, Kishor and Bineesh. *Zootaxa*, 4652 (2): 359–366, 2019

The species *Gymnothorax smithi* was described by K.S. Sumod, A. Mohapatra, V.N. Sanjeevan, T.G. Kishor and K.K. Bineesh based on a Holotype collected from Kerala, 200 m depth off Kochi (09°59.935′N and 75°36.086′E) and two Paratypes collected from Kerala, Kollam, Neendakara fish landing centre. The type specimens have been deposited in the CMLRE Referral Centre, Kochi, ZSI-EBRC and Zoological Survey of India, Andaman and Nicobar Regional Centre (ZSI-ANRC). The species is named in honour of David G. Smith.

Ophichthus mccoskeri Sumod, Hibino, Manjabrayakath and Sanjeevan. *Zootaxa*, 4686 (1): 112–118, 2019

The species *Ophichthus mccoskeri* was described by K. S. Sumod, Y. Hibino, H. Manjabrayakath and V. N. Sanjeevan based on a Holotype collected from Andaman and Nicobar Islands, 321 m off South Great Nicobar (6°38′18′′N and93°41′4.81′′E) and five Paratypes collected from different localities of Andaman and Nicobar Islands. The type specimens have been deposited in the Centre for Marine Living Resources and Ecology (CMLRE) Referral Centre, Kochi, India. The species is named in honor of John E. McCosker.

Ophichthus mccoskeri Sumod, Hibino, Manjabrayakath and Sanjeevan 2019

Family
OPHICHTHIDAE

Genus
Ophichthus
J.N. Ahl, 1789

Glossanodon macrocephalus Bineesh, Nashad, Kumar and Endo. *Zootaxa*, 4688 (2): 289–294, 2019

The species *Glossanodon macrocephalus* was described by K. Bineesh, M. Nashad, K.V. Aneesh Kumar and H. Endo based on a Holotype collected from Kerala, 510m (10°45'27.0''N and 75°14'24''E) and three Paratypes collected from Kerala, 475m (10°48'39.0''N and 75°12'24.6''E). The type specimens have been deposited in ZSI-ANRC. The species name is derived from two Greek words 'macro' and 'cephalon' meaning large head.

Glossanodon macrocephalus Bineesh, Nashad, Kumar and Endo 2019

Order
ARGENTINIFORMES

Family
ARGENTINIDAE

Genus
Glossanodon
Guichenot 1867

Thrissina cultella Hata, Motomura. *Ichthyological Research*, DOI: https://doi.org/10.1007/s10228-019-00713-w

The species *Thrissina cultella* was described by H. Hata and H. Motomura based on a Holotype collected from Chennai, Tamil Nadu State, Bay of Bengal (13°04′51″N and 80°17′58″E) and thirty three Paratypes collected from different localities of Andhra Pradesh and Tamil Nadu. The species name is derived from the Latin word "cutlass" for the long maxilla of the species

Thrissina cultella Hata, Motomura 2019

Order
CLUPEIFORMES

Family
ENGRAULIDAE

Genus
Thrissina **Jordan & Seale, 1925**

Order
CYPRINIFORMES

Family
COBITIDAE

Genus
***Pangio* Blyth, 1860**

Pangio bhujia Anoop, Britz, Arjun, Dahanukar and Raghavan. *Zootaxa*, 4683 (1): 144–150, 2019

The species *Pangio bhujia* was described by V.K. Anoop, R. Britz, C.P. Arjun, N. Dahanukar and R. Raghavan based on a Holotype and sixteen Paratypes collected from Kerala, Kozhikode District, Cherinjal (11°17'42"N and 75°52'7"E). The type specimens have been deposited in BNHS. The species name *bhujia* was inspired by the resemblance of this species to the widely known Indian snack 'Bhujia'.

Pangio bhujia Anoop, Britz, Arjun, Dahanukar and Raghavan

Family
CYPRINIDAE

Genus
Barilius
F. Hamilton, 1822

Barilius torsai Kumari, Munivenkatappa, Sinha, Borah and Das. *Journal of Threatened Taxa*,11(4): 14808-14815, 2019

The species *Barilius torsa*i was described by Kavita Kumari, Manas Hoshalli Munivenkatappa, Archana Sinha, Simanku Borah and Basanta Kumar Das based on a Holotype and ten Paratypes collected from West Bengal, Alipurduar District, Jaldapara, Torsa River (26.729°N and 89.325°E). The type specimens have been deposited in the Museum of the ZSIK and at the ICAR-Central Inland Fisheries Research Institute (CIFRI), Barrackpore. The species has been named after type locality.

Barilius torsai Kumari, Munivenkatappa, Sinha, Borah and Das 2019

Genus
Cabdio
Hamilton, 1822

Cabdio crassus Lalramliana, Lalronunga and Singh. *Zootaxa*,4657 (1): 159–169, 2019

The species *Cabdio crassus* was described by Lalramliana, S. Lalronunga and M. Singh based on a Holotype and ten Paratypes collected from Mizoram, Kaladan River, in the vicinity of Kawlchaw village (23°28'29''N and 92°23'27''E). The type specimens have been deposited in Pachhunga University College Museum of Fishes and ZSIK. The species name *crassus* is a Latin adjective meaning stout or thick for the thick body of the species.

Cabdio crassus Lalramliana, Lalronunga and Singh 2019

Genus
Garra
F. Hamilton, 1822

Garra magnacavus Shangningam, Kosygin and Sinha. *Zootaxa*,4695 (2): 148–158, 2019

The species *Garra magnacavus* was described by B. Shangningam, L. Kosygin and B. Sinha based on a Holotype and three Paratypes collected from Arunachal Pradesh, Lower Subansiri District, Ranga River, Brahmaputra River Basin, 547 m above sea level (27°20′N and 93°48′E). The type specimens have been deposited in the ZSIK and Zoological Survey of India, Arunachal Pradesh Regional Centre (ZSI-APRC). The species name is derived from Latin words “magna” meaning large and “cavus” meaning hollow, referring to the large pits present in the snout.

Garra magnacavus Shangningam, Kosygin and Sinha 2019

Garra ngatangkha Arunkumar and Moyon. *International Journal of Fisheries and Aquatic Studies*,7(3): 285-290, 2019

The species *Garra ngatangkha* was described by L Arunkumar and W. A. Moyon based on a Holotype and nine Paratypes collected from Manipur, Chandel district, Purum Chumbang village, Tumit River, Chindwin basin (24015′-24030′N and 9400′-94015′E). The type specimens have been deposited in the Manipur University Central Museum. The species is named after the local name of the fish.

Garra ngatangkha Arunkumar and Moyon 2019

Garra paratrilobata Roni, Chinglemba, Rameshori and Vishwanath. *Zootaxa*, 4619 (3): 545–554, 2019

The species *Garra paratrilobata* was described by N. Roni, Y. Chinglemba, Y. Rameshori and W. Vishwanath based on a Holotype and five Paratypes collected from Manipur: Noney district: Leimatak River, a tributary of Irang River (Barak drainage), at Awangkhul Village, (24°49’07.20”N and 93°30’00.60”E). The type specimens have been deposited in Manipur University Museum of Fishes, Canchipur and ZSIK. The species name is an allusion to the superficial similarity of the trilobed proboscis of this species to that of *Garra trilobata* of the Chindwin drainage.

Garra paratrilobata Roni, Chinglemba, Rameshori and Vishwanath 2019

Garra ranganensis Tamang, Sinha, Abujam and Kumar. *Species*,20: 59-71, 2019

The species *Garra ranganensis* was described by L. Tamang, B. Sinha, S. Abujam and R. Kumar based on a Holotype and one Paratype collected from Arunachal Pradesh, Ranga River (Brahmaputra basin), about 5 km upstream from Yazali, Lower Subansiri District, 881 m (27°25'41.16"N and 93°45'47.58"E). The type specimens have been deposited in ZSI-APRC. The species name refers to the type locality.

Garra ranganensis Tamang, Sinha, Abujam and Kumar 2019

Garra simbalbaraensis Rath, Shangningam and Kosygin. *Zootaxa*,4652 (3): 487–496, 2019

The species *Garra simbalbaraensis* was described by S. Rath, B. Shangningam and L. Kosygin based on a Holotype and three Paratypes collected from Himachal Pradesh, Sirmaur District, Simbalbara River, Yamuna River Basin, (30°27' N and 77°34"E). The type specimens have been deposited in the ZSIK. The species name refers to the type locality.

Garra simbalbaraensis Rath, Shangningam and Kosygin 2019

Genus
Opsarius
McClelland, 1839

Opsarius sajikensis Moyon and Arunkumar. *International Journal of Fisheries and Aquatic Studies*, 7 (6): 01-06, 2019

The species *Opsarius sajikensis* was described by W.A. Moyon and A. Arunkumar based on a Holotype and six Paratypes collected from Manipur, Chandel district, from Chandel Bazar, about 43 km towards South from district headquarter, Yu river basin, Kana River at Sajik-Tampak near Molnaum village (24°0′N-24°15′N and 93°45′E-94°0′E). The type specimens have been deposited in the Manipur University Museum of Natural History, Canchipur, Manipur. The species is named after Sajik-Tampak, one of the important border areas of Manipur and Myanmar where the type materials were collected.

Opsarius sajikensis Moyon and Arunkumar 2019

Pethia arunachalensis Shangningam, Kosygin and Chowdhury. *Records of Zoological Survey of India*, 119 (4): 328-333, 2019

The species *Pethia arunachalensis* was described by B. Shangningam, L. Kosygin and B.R. Chowdhury based on a Holotype and seven Paratypes collected from Arunachal Pradesh, Changlang District, Nao-dhing River near Miao (Brahmaputra River drainage), 230 m (27°30'16"N and 96°10'51"E). The type specimens have been deposited in the ZSIK. The species is named after the type locality, Arunachal Pradesh.

Genus
Pethia
Pethiyagoda et al., 2012

Pethia arunachalensis Shangningam, Kosygin and Chowdhury 2019

Puntius kyphus Plamoottil. *Journal of Experimental Zoology*, 22 (2): 713-718, 2019

The species *Puntius kyphus* was described by Mathews Plamoottil based on a Holotype and two Paratypes collected from Kerala, Thiruvalla. The type specimens have been deposited in (ZSI-NERC). The species name is taken from Greek word *kyphos*, meaning 'hump backed' referring to the unusually convex curvature of the post occipital region.

Genus
Puntius
Hamilton, 1822

Puntius kyphus Plamoottil 2019

Aborichthys iphipaniensis Kosygin, Gurumayum, Singh and Chowdhury. *Uttar Pradesh Journal of Zoology*, 39 (2): 69-75, 2019

The species *Aborichthys iphipaniensis* was described by L. Kosygin, S. D. Gurumayum, P. Singh and B. R. Chowdhury based on a Holotype and three Paratypes collected from Arunachal Pradesh, Lower Dibang Valley, Brahmaputra River basin, Iphipani River at Roing, 418 m (28°10′44″N and 95°50′08″E). The type specimens have been deposited in the ZSIK and the (ZSI-APRC). The species is named after the type locality, Iphipani River.

Family
NEMACHEILIDAE

Genus
Aborichthys
B. L. Chaudhuri, 1913

Aborichthys iphipaniensis Kosygin, Gurumayum, Singh and Chowdhury 2019

Aborichthys kailashi Shangningam, Kosygin, Sinha and Gurumayum. *Ichthyological Exploration of Freshwaters*, DOI: http://doi.org/10.23788/IEF-1123, 2019

The species *Aborichthys kailashi* was described by B. Shangningam, L. Kosygin, B. Sinha and S. D. Gurumayum based on a Holotype and five Paratypes collected from Arunachal Pradesh, Lower Subansiri District, Brahmaputra basin, Pange River at Arolenching, Ziro, 1600 m (27°29'16"N and 93°51'95"E). The type specimens have been deposited in ZSIK and ZSI-APRC, Itanagar. The species is named after Dr. Kailash Chandra, Director Zoological Survey of India.

Aborichthys kailashi Shangningam, Kosygin, Sinha and Gurumayum 2019

Aborichthys pangensis Shangningam, Kosygin, Sinha and Gurumayum. *Ichthyological Exploration of Freshwaters*, DOI: http://doi.org/10.23788/IEF-1123, 2019

The species *Aborichthys pangensis* was described by B. Shangningam, L. Kosygin, B. Sinha and S. D. Gurumayum based on a Holotype and two Paratypes collected from Arunachal Pradesh, Lower Subansiri District, Brahmaputra basin, Pange River at Arolenching, Ziro, 1600 m (27°29'16"N and 93°51'95"E). The type specimens have been deposited in ZSIK. The species is named after the type locality, Pange River.

Aborichthys pangensis Shangningam, Kosygin, Sinha and Gurumayum 2019

Genus
Paracanthocobitis
S. Grant, 2007

Paracanthocobitis tumitensis Arunkumar and Moyon. *Species*,20: 101-109, 2019

The species *Paracanthocobitis tumitensis* was described by L. Arunkumar and W. A. Moyon based on a Holotype and one Paratype collected from Manipur, Tumit River at Chumbang village of Chandel district, Chindwin basin. The type specimens have been deposited in Manipur University Museum of Natural History, Canchipur, Manipur. The species is named after the type locality.

Paracanthocobitis tumitensis Arunkumar and Moyon 2019

Physoschistura ranikhetensis Singh and Das. *Uttar Pradesh Journal of Zoology*, 39 (4): 144-150, 2019

The species *Physoschistura ranikhetensis* was described by Pratima Singh and Ujjal Das based on a Holotype and five Paratypes collected from Uttarakhand, Almora district, a stream at Dhobighat near Ranikhet, Ganga River basin (29°38'28"N and 79°25'56"E). The type specimens have been deposited in the ZSIK. The species is named after the type locality, Ranikhet.

Physoschistura ranikhetensis Singh and Das 2019

Genus ***Physoschistura*** **Banarescu and Nalbant, 1982**

Schistura rebuw Choudhury, Dey, Bharali, Sarma and Vishwanath. *Zootaxa*, 4551 (1): 040-052, 2019

The species *Schistura rebuw* was described by H. Choudhury, A. Dey, R. Ch. Bharali, D. Sarma and W. Vishwanath based on a Holotype and six Paratypes collected from Arunachal Pradesh, East Kameng District, Pachai stream near Seppa, Kameng River (Brahmaputra basin) (27°23′20″N, 93°03′20″E). The type specimens have been deposited in the GUMF Assam and ZSIK. The species name is derived from the Nishing word *'rebuw'* referring to loach-like fish.

Schistura rebuw Choudhury, Dey, Bharali, Sarma and Vishwanath 2019

Genus ***Schistura*** **McClelland, 1838**

Schistura syngkai Choudhury, Mukhim, Dey, Warbah and Sarma. *Zootaxa*, 4701 (2): 185–191, 2019

The species *Schistura syngkai* was described by H. Choudhury, D. K. B. Mukhim, A. Dey, D. P. Warbah and D. Sarma based on a Holotype and six Paratypes collected from Meghalaya, West Khasi Hills District, Twahdidoh Stream of Wahblei River (Surma-Meghna drainage) near Seinduli village (25°39′32″N, 91°08′22″E). The type specimens are deposited at the ZSIK and Gauhati University Museum of Fishes, Assam, India (GUMF). The species name '*Syngkai'* means a loach-like fish.

Schistura syngkai Choudhury, Mukhim, Dey, Warbah and Sarma 2019

Family
PSILORHYNCHIDAE

Genus
Psilorhynchus
McClelland, 1838

Psilorhynchus bichomensis Shangningam, Kosygin and Gopi. *FishTaxa*,4(3): 130-139, 2019

The species *Psilorhynchus bichomensis* was described by B. Shangningam, L. Kosygin and K. C. Gopi based on a Holotype and one Paratype collected from Arunachal Pradesh, East Kameng District, Bichom River at Bana (Brahmaputra basin), 38 km from Seppa towards Ziro (27°17'23''N 92°50'25''E). The type specimens have been deposited in ZSIK. The species name refers to the type locality.

Psilorhynchus bichomensis Shangningam, Kosygin and Gopi 2019

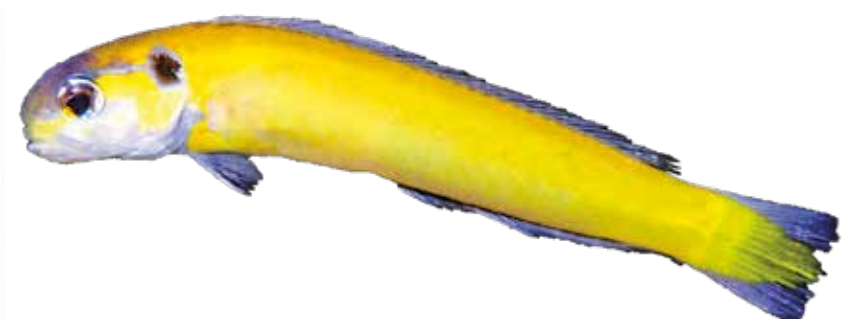
Order
PERCIFORMES

Family
MELACANTHIDAE

Genus
Hoplolatilus
Gunther, 1887

Hoplolatilus andamanensis Allen and Erdmann. *International Journal of Ichthyology*,25: 1-25, 2019

The species *Hoplolatilus andamanensis* was described by Gerald R. Allen and Mark V. Erdmann based on a Holotype and three Paratypes collected from Andaman Islands, Havelock Isalnd, "The Wall" dive site (12°03.297'N, 92°57.525'E). The type specimens have been deposited in Western Australian Museum, Perth (WAM). The species name refers to the type locality.



Hoplolatilus andamanensis Allen and Erdmann 2019

Order
SILURIFORMES

Family
BAGRIDAE

Genus
***Mystus* Scopoli, 1777**

Mystus prabini Darshan, Abujam, Kumar, Parhi, Singh, Vishwanath, Das and Pandey. *Zootaxa*,4648 (3): 511–522, 2019

The species *Mystus prabini* was described by A. Darshan, S. Abujam, R. Kumar, J. Parhi, Y. S. Singh , W. Vishwanath, D. N. Das and P. K. Pandey based on a Holotype collected from Arunachal Pradesh, Lower Dibang district, Sinkin River (a tributary of the Siang River) at Anpum village (28°0'4.4"N & 95°35'9.6"E) and twenty Paratypes collected from Lower Dibang Valley district, Dibang River at Bomjir village (28°9'17.5''N & 95°40'13.6''E). The type specimens have been deposited at the Rajiv Gandhi University Museum of Fishes (RGUMF), Doimukh, Arunachal Pradesh and ZSI-APRC, Itanagar. The species is named after late Prabin Kumar Mahanta.

Mystus prabini Darshan, Abujam, Kumar, Parhi, Singh, Vishwanath, Das and Pandey 2019

Pseudolaguvia flavipinna Bhakat. *International Journal of Fisheries and Aquatic Studies*, 7(6): 240-245, 2019

The species *Pseudolaguvia flavipinna* was described by Somnath Bhakat based on a Holotype and one Paratype collected from West Bengal, Birbhum district, Suri, Tilpara Barrage, Mayurakshi River. The species name is Latin for yellow fin in this species.

Pseudolaguvia flavipinna Bhakat 2019

Family
ERETHISTIDAE

Genus
***Pseudolaguvia* Misra, 1976**

Creteuchiloglanis tawangensis Darshan, Abujam, Wangchu, Kumar, Das and Nimotomba. *International Journal of Ichthyology*,25: 1-25, 2019

The species *Creteuchiloglanis tawangensis* was described by A. Darshan, S. Abujam, L. Wangchu, R. Kumar, D. N. Das and R. K. Nimotomba based on a Holotype and one Paratype collected from Arunachal Pradesh, Tawang District, Tawangchu River at Granger village, Brahmaputra River basin, (27°33'39.9"N, 91°53'15.7"E). The type specimens have been deposited in the RGUMF, Doimukh, Arunachal Pradesh. The species name refers to the type locality.

Creteuchiloglanis tawangensis Darshan, Abujam, Wangchu, Kumar, Das and Nimotomba 2019

Family
SISORIDAE

Genus
***Creteuchiloglanis* W. Zhou, X. Li & A. W. Thomson, 2011**

Exostoma kottelati Darshan, Vishwanath, Abujam and Das. *Zootaxa*,4585 (2): 369–377, 2019

The species *Exostoma kottelati* was described by A. Darshan, W. Vishwanath, S. Abujam and D. N. Das based on a Holotype amd four Paratypes collected from Arunachal Pradesh, Lower Subansiri district, a stream flowing into Ranga River at Yazali village (Brahmaputra basin). The type specimens have been deposited in RGUMF, Doimukh, Arunachal Pradesh. The species is named after Maurice Kottelat.

Exostoma kottelati Darshan, Vishwanath, Abujam and Das 2019

Genus
***Exostoma* Blyth, 1860**

Genus
***Gagata*, Bleeker, 1858**

Gagata rhodobarbus Bhakat and Sinha.*International Journal of Fisheries and Aquatic Studies*,7(1): 274-279, 2019

The species *Gagata rhodobarbus* was described by Somnath Bhakat and Arup Kumar Sinha based on a Holotype and one Paratype collected from West Bengal, Birbhum District, Suri, Tilpara Barrage, Mayurakshi river. Species *rhodobarbus* is derived from two Latin words.

Gagata rhodobarbus Bhakat and Sinha 2019

Genus
***Glyptothorax* Blyth, 1860**

Glyptothorax gopii Kosygin, Das, Singh and Chowdhury. *Zootaxa*,4652 (3): 568–578, 2019

The species *Glyptothorax gopii* was described by L. Kosygin, U. Das, P. Singh and B. R. Chowdhury based on a Holotype and two Paratypes collected from Mizoram, Champhai district, Tuipui River near Champhai (Kaladan River drainage) (23°27'N and 93°15'E). The type specimens have been deposited in the ZSIK. The species is named after K.C. Gopi.

Glyptothorax gopii Kosygin, Das, Singh and Chowdhury 2019

Order
TRACHINIFORMES

Family
PERCOPHIDAE

Genus
***Pteropsaron* D. S. Jordan and Snyder, 1902**

Pteropsaron indicum Victor and Kumar. *Journal of the Ocean Science Foundation*, 33: 70–78, 2019

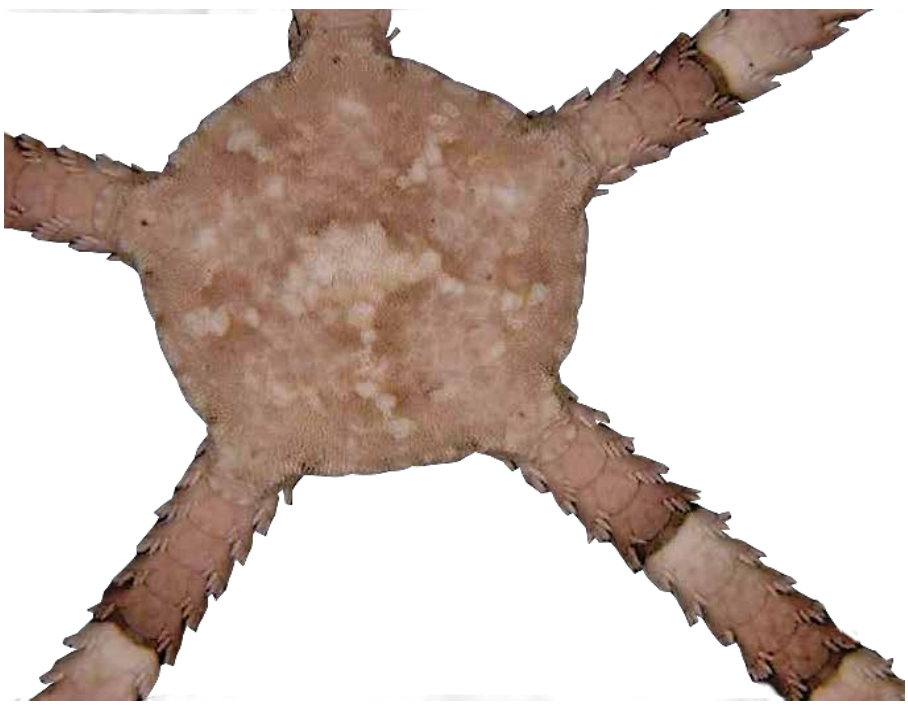
The species *Pteropsaron indicum* was described by Benjamin Victor and A. Biju Kumar based on a Holotype and one Paratype collected from Lakshadweep Sea, off Kerala coast, 70 m (8.16° N, 73.4° E). The type specimens have been deposited in the Western Ghat Regional Centre, ZSI-WGRC, Kerala, India and the Department of Aquatic Biology and Fisheries, University of Kerala, Thiruvananthapuram, Kerala, India. The species name refers to the origin of the species from Indian waters.

Pteropsaron indicum Victor and Kumar 2019

3.4.
Echinodermata

Indophioderma ganapatii Sastry, Marimuthu and Rajan. *Records of Zoological Survey of India*, 119 (4): 348-372, 2019

The genus *Indophioderma* and the species *Indophioderma ganapatii* was described by D.R.K. Sastry, N. Marimuthu and Rajkumar Rajan based on a Holotype collected from Lakshadweep, Agatti Islands. The type specimen has been deposited in the NZC ZSIK. The generic name is formed by the combination of the locality (India) and the type genus of the family ophiodermatidae and the species is named after late Prof. P. N. Ganapati who initiated the first author into study of echinoderms.



Phylum
ECHINODERMATA

Class: **OPHIUROIDEA**

Order
OPHIACANTHIDA

Family
OPHIODERMATIDAE

Genus
Indophioderma
Sastry, Marimuthu and Rajan, 2019

Indophioderma ganapatii Sastry, Marimuthu and Rajan 2019

3.5. Mollusca

Phylum
MOLLUSCA

Class
GASTROPODA

Order
NEOGASTROPODA

Family
VOLUTIDAE

Genus
***Involuta* Cox, 1931**

Involuta coxi Halder and Das. *Journal of Paleontology*, DOI: 10.1017/jpa.2019.34, 2019

The species *Involuta coxi* was described by K. Halder and S. Das based on a Holotype collected from 3 km NW of Nareda (23°35'03''N and 68°36'40''E), three Paratypes collected from the village of Harudi (23°32'N and 68°40'52''E) and four Paratypes collected from 3 km SW of the village of Godhatad (23°38'37''N and 68° 38'21''E). The type specimens have been deposited in Department of Geology, Presidency University, Kolkata and in the Repository of Fossils of the Curatorial Division of Geological Survey of India (GSI) Kolkata. The species is named in honor of L.R. Cox, who did pioneering studies on mollusks from the Indian subcontinent.

Involuta coxi Halder and Das 2019

Order
STYLOMMATOPHORA

Family
ARIOPHANTIDAE

Genus
***Macrochlamys* Gray, 1847**

Macrochlamys leggeae Sajan, Tripathy, Chandra and Sivakumar. *Journal of Natural History*, 53 (13–14): 797–813, 2019

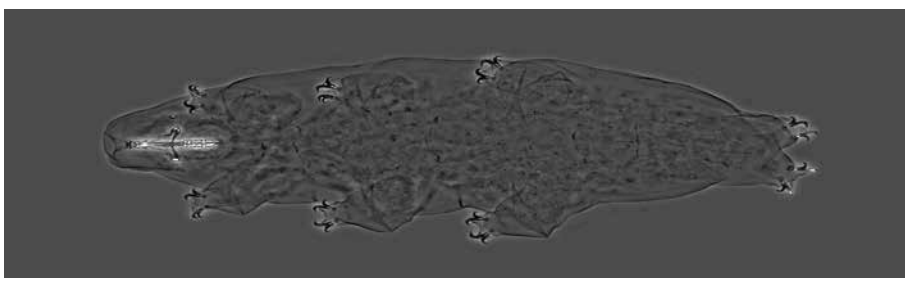
The species *Macrochlamys leggeae* was described by S. Sajan, B. Tripathy, K. Chandra and K. Sivakumar based on a Holotype and eighteen Paratypes collected from Uttarakhand, Chamoli district, 300 m north-east of the Pushpawati river, 3544 m (30.72573°N and 079.59150°E). The type specimens have been deposited in NZC ZSIK, Northern Regional Centre, Zoological Survey of India, Dehradun, Uttarakhand (ZSI-NRC) and High Altitude Regional Centre, Zoological Survey of India, Solan, Himachal Pradesh (ZSI-HARC). The species is named after Joan Margaret Legge, Botanist of the Royal Botanical Gardens, Kew, who came to India to study flora of the Valley of Flowers, and lost her life there on 4 July 1939.

Macrochlamys leggeae Sajan, Tripathy, Chandra and Sivakumar 2019

3.6. Tardigrada

Macrobiotus kamilae Coughlan and Stec. *European Journal of Taxonomy*, 573: 1–38. DOI: https://doi.org/10.5852/ejt.2019.573, 2019

The species *Macrobiotus kamilae* was described by Kyle Coughlan and Daniel Stec based on a Holotype and seventy one Paratypes collected from Uttarakhand, Dehradun district, Mussoorie, Camel's Back Road, 2100 m (30°27'28"N and 78°04'41"). The type specimens have been deposited in Institute of Zoology and Biomedical Research, Jagiellonian University, Krakow, Poland. The species name is dedicated to the friend of the second author, Kamila Zajac.



Phylum
TARDIGRADA

Class
EUTARDIGRADA

Order
MACROBIOTOIDEA

Family
MACROBIOTIDAE

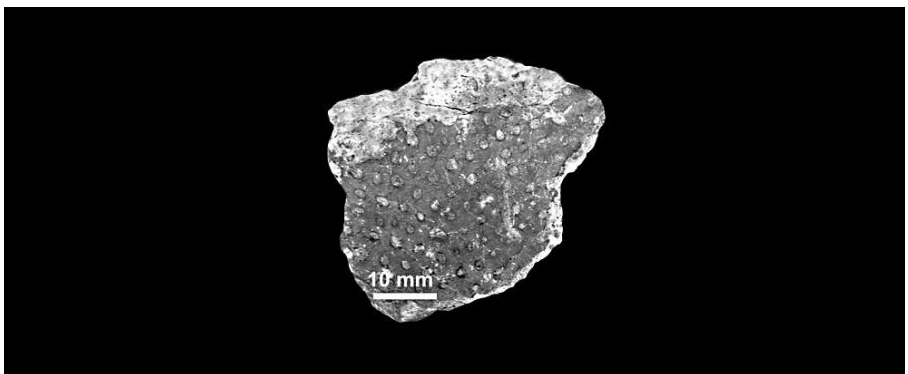
Genus
***Macrobiotus* Schultze, 1834**

Macrobiotus kamilae
Coughlan and Stec
2019

3.7. Bryozoa

Ptilotrypa bajpaii Swami, Ernst, Tripathi, Barman, Bharti & Rana. *Journal of Paleontology*, DOI: 10.1017/jpa.2018.94, 2019

The species *Ptilotrypa bajpaii* was described by N. K. Swami, A. Ernst, S. C. Tripathi, P. Barman, S.K. Bharti and Y.P. Rana based on a Holotype and five Paratypes collected from Uttarakhand, Chamoli district, southwest of the Geldung, 4,565m. The type specimens have been deposited in GSI, Northern Region, Lucknow. The species is named after Prof. Sunil Bajpai, Himalayan paleontologist and director of the Birbal Sahni Institute of Paleosciences, Lucknow.



Phylum
BRYOZOA

Class
STENOLAEMATA

Order
CRYPTOSTOMATA

Genus
***Ptilotrypa* Ulrich in Miller, 1889**

Ptilotrypa bajpaii
Swami, Ernst,
Tripathi, Barman,
Bharti & Rana 2019

3.8. Coleoptera

Phylum
ARTHROPODA

Class
INSECTA

Order
COLEOPTERA

Family
CARABIDAE

Genus
Cintaroa
Kasahara, 1989

Cintaroa sikkimica Hackel and Sciaky. *Zootaxa*, 4565 (2): 245–252, 2019

The species *Cintaroa sikkimica* was described by M. Hackel and R. Sciaky based on a Holotype collected from Sikkim, Chongay, 1700 m. The type specimen has been deposited in the Naturhistorisches Museum Wien. The species is named after the type locality.

Cintaroa sikkimica Hackel and Sciaky 2019

Himalotrechus humeratus Belousov, Kabak and Schmidt 2019

Genus
Himalotrechus
Belousov, Kabak and Schmidt, 2019

Himalotrechus humeratus Belousov, Kabak and Schmidt. *Zootaxa*, 4544 (4): 581–588, 2019

The genus *Himalotrechus* and the species *Himalotrechus humeratus* was described by I.A. Belousov, I.I. Kabak and J. Schmidt based on a Holotype and two Paratypes collected from Arunachal Pradesh, North of Bomdila, North West of Chander, 3200 m (27°25'N and 92°22'E). The species name refers to the conspicuous, prominent humeri giving the new species a distinctive appearance.

Genus
Pheropsophus
Solier 1833

Pheropsophus devagiriensis Venugopal and Thomas. *Zootaxa*, 4608 (1): 065–089, 2019

The species *Pheropsophus devagiriensis* was described by A.S. Venugopal and S.K. Thomas based on a Holotype and five Paratypes collected from Tamil Nadu, Courtallam (8.930855°N and 77.268843°E). The type specimens have been deposited in ZSI-WGRC. The species is named after the host research institution.

Pheropsophus devagiriensis Venugopal and Thomas 2019

Pheropsophus indicus Venugopal and Thomas 2019

Pheropsophus indicus Venugopal and Thomas. *Zootaxa*, 4608 (1): 065–089, 2019

The species *Pheropsophus indicus* was described by A.S. Venugopal and S.K. Thomas based on a Holotype collected from Kerala, Palakkad (10.806420°N and 76.690174°E) and one Paratype collected from Karnataka. The type specimens have been deposited in ZSI-WGRC. The species is named after India.

Family
CERAMBYCIDAE

Genus
Miccolamia
Bates, 1884

Miccolamia (Miccolamia) ferruginea Hiremath. *Zootaxa*, 4560 (1): 141–148, 2019

The species *Miccolamia (Miccolamia) ferruginea* was described by S.R. Hiremath based on a Holotype collected from Kerala, Vellayani (08°26'01.0"N and 76°59'10.3"E) and twelve Paratypes collected from different localities of Kerala and Karnataka. The species name refers to the general body coloration of the new species.

Miccolamia (Miccolamia) ferruginea |Hiremath 2019

Sarmydus nicobarensis Majumder, Drumont, Chandra and Dubey 2019

Sarmydus nicobarensis Majumder, Drumont, Chandra and Dubey. *Zootaxa*, 4674 (2): 235–242, 2019

The species *Sarmydus nicobarensis* was described by A. Majumder, A. Drumont, K. Chandra and A.K. Dubey based on a Holotype collected from Nicobar Island, Great Nicobar, Laxmi Nagar (6°55'33.7"N and 93°53'58.4"E) and six Paratypes collected from different localities of Nicobar Island, Great Nicobar. The type specimens have been deposited in the ZSIK. The species name refers to the type locality, Nicobar group of islands.

Family
CHRYSOMELIDAE

Genus
***Bothryonopa* Guerin Meneville, 1840**

Bothryonopa sahyadrica Shameem and Prathapan. *Zootaxa*, 4545 (2): 293–300, 2019

The species *Bothryonopa sahyadrica* was described by K. M. Shameem and and K. D. Prathapan based on a Holotype and nine paratypes collected from Kerala, Bonacaud, 1276 m (08°41'01.6"N and 77°11'24.0"E). The holotype of the new species is deposited in the BMNH, London and Paratypes are deposited in the Natural History Museum, London (BMNH), National Bureau of Agricultural Insect Resources, Bengaluru, (NBAIR), National Pusa Collection, IARI, New Delhi, (NPC), University of Agricultural Sciences, Bengaluru, (UASB), National Museum of Natural History, Smithsonian Institution, Washington, DC, USA, (NMNH), Lukas Sekerka Collection, Prague, Czech Republic and in the personal collection of the authors.The species name *sahyadrica* refers to Sahyadri, Sanskrit name of the Western Ghats chain of mountains, where the insect occurs.

Bothryonopa sahyadrica Shameem and Prathapan 2019

Sphaeroderma cruenta Prathapan, Poorani, Kumari, Anuradha, Padmanaban and Thanigairaj 2019

Genus
***Sphaeroderma* Stephens, 1831**

Sphaeroderma cruenta Prathapan, Poorani, Kumari, Anuradha, Padmanaban and Thanigairaj. *Deutsche Entomologische Zeitschrift*, 66 (2): 179–202, 2019

The species *Sphaeroderma cruenta* was described by K.D. Prathapan, J. Poorani, S.A. Kumari, C. Anuradha, B. Padmanaban and R. Thanigairaj based on a Holotype and twenty five Paratypes collected from Meghalaya, Barapani, 993 m (25°41'17.6"N and 91°55'5.1"E). The type specimens have been deposited in BMNH, NPC, ICAR-NBAIR, UASB and NMNH. The species name refers to the reddish colour of the species.

Family
COCCINELLIDAE

Genus
***Micraspis* Chevrolat, 1837**

Micraspis unicus Poorani. *Zootaxa*, 4559 (1): 189-192, 2019

The species *Micraspis unicus* was described by J. Poorani based on a Holotype and a Paratype collected from Arunachal Pradesh, Mayodia, 2463 m (28°16'47.4"N and 095°54'44.9"E). The type specimens have been deposited in ICAR-National Research Centre for Banana, Tamil Nadu. The species name refers to the unique features of this species.

Micraspis unicus Poorani 2019

Family
DERMESTIDAE

Genus
***Anthrenus* Geoffroy, 1762**

Anthrenus (Anthrenodes) himalayensis Hava, Wachkoo and Maqbool. *Turkish Journal of Zoology*, 43: 118-122, 2019

The species *Anthrenus (Anthrenodes) himalayensis* was described by J. Hava, A.A. Wachkoo and A. Maqbool based on a Holotype and fifty two Paratypes collected from Jammu and Kashmir, Shopian, 2146 m (33.7103°N and 74.8441°E). The type specimens have been deposited in the Department of Zoology, Government Degree College, Shopian, Jammu and Kashmir, Jiri Hava, Private Entomological Laboratory and Collection, Czech Republic and Kashmir University Insect Collection, University of Kashmir, Srinagar, Jammu and Kashmir. The species is named after the locality of collection, Himalaya.

Anthrenus (Anthrenodes) himalayensis Hava, Wachkoo and Maqbool 2019

Enoplotrupes (Enoplotrupes) tawangensis Gupta, Chandra and Král 2019

Family
GEOTRUPIDAE

Genus
***Enoplotrupes* Lucas, 1869**

Enoplotrupes (Enoplotrupes) tawangensis Gupta, Chandra and Král. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1624219, 2019

The species *Enoplotrupes (Enoplotrupes) tawangensis* was described by D. Gupta, K. Chandra, D. Kral, J. Ghosh and P. Das based on a Holotype collected from Arunachal Pradesh, district Tawang, Lumla, 2,427 m (27.53722N and 91.71964E) and ten Paratypes collected from different localities of Arunachal Pradesh, India and Bhutan. The species name refers to the type locality, Tawang district.

Family
LATRIDIIDAE

Genus
***Corticaria* Marsham, 1802**

Corticaria kamalae Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Corticaria kamalae* was described by Tarun K. Pal based on a Holotype and five Paratypes collected from Arunachal Pradesh, Upper Dibang Valley District, Parba, Anini, 1690 m. The type specimens have been deposited in the ZSIK. The species is named after author's mother, Kamala bala Pal.

Corticaria kamalae Pal 2019

Genus
***Corticarina* Reitter, 1881**

Corticarina bakralinga Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Corticarina bakralinga* was described by Tarun K. Pal based on a Holotype and five Paratypes collected from Arunachal Pradesh, West Kameng District, Gandhi Colony, Bomdila. The type specimens have been deposited in the ZSIK. The specific name refers to the bent aedeagus of male of this species.

Corticarina bakralinga Pal 2019

Corticarina bishista Pal 2019

Corticarina bishista Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Corticarina bishista* was described by Tarun K. Pal based on a Holotype and ten Paratypes collected from Arunachal Pradesh, Upper Dibang Valley District, Kongo, Anini. The type specimens have been deposited in the ZSIK. The species name is the Bengali adjective 'bishista' meaning distinguished, that refers to the characteristic shape of aedeagus of male of this species.

Corticarina paharee Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Corticarina paharee* was described by Tarun K. Pal based on a Holotype and ten Paratypes collected from Arunachal Pradesh, West Kameng District, Sangti, 5206 ft. (1577 m.). The type specimens have been deposited in the ZSIK. The specific name is the Bengali adjective 'paharee' meaning resident of hills, which refers to the occurrence of this species in the hills of Arunachal Pradesh.

Corticarina paharee Pal 2019

Corticarina prashanta Pal. *Memoirs of The Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Corticarina prashanta* was described by Tarun K. Pal based on a Holotype and ten Paratypes collected from Arunachal Pradesh, Tawang District, Monastery Area, Tawang, 2903 m. The type specimens have been deposited in the ZSIK. The specific name is the Bengali adjective 'prashanta' meaning calm and cool, that refers to the Buddhist inhabitants of Tawang District of Arunachal Pradesh whose religious belief is peace and compassion.

Corticarina prashanta Pal 2019

Genus
Corticaromus
Pal & Ghosh, 2008

Corticaromus chandrai pal 2019

Corticaromus chandrai Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Corticaromus chandrai* was described by Tarun K. Pal based on a Holotype and eight Paratypes collected from Arunachal Pradesh, West Kameng District, Sangti, 1577 m. The type specimens have been deposited in the ZSIK. This species is named in honour of Dr. Kailash Chandra, the director of the Zoological Survey of India.

Genus
***Stephostethus* Le Conte, 1878**

Stephostethus bisinuaticollis Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Stephostethus bisinuaticollis* was described by Tarun K. Pal based on a Holotype collected from Arunachal Pradesh, West Kemeng Distt., Bomdila, 2462 m. The type specimens have been deposited in the ZSIK. The species name refers to the bisinuated side margins of prothorax of the species.

Stephostethus bisinuaticollis Pal 2019

Stephostethus foveatus Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Stephostethus foveatus* was described by Tarun K. Pal based on a Holotype collected from Arunachal Pradesh, Upper Dibang valley Distt., Parba, Anini, 1690 m and two Paratypes collected from Upper Dibang Valley Distt., Kongo, Anini. The type specimens have been deposited in the ZSIK. The species name refers to the broadly elongate fovea and paired lateral foveae above base of pronotum of the species.

Stephostethus foveatus Pal 2019

Stephostethus sinuaticollis Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Stephostethus sinuaticollis* was described by Tarun K. Pal based on a Holotype and one Paratype collected from Arunachal Pradesh, West Kemeng Distt., Sangti, 1577m and one Paratype collected from Tawang Distt., Monastery area, 2903 m. The type specimens have been deposited in the ZSIK. The species name refers to the sinuated side margins of prothorax of the species.

Stephostethus sinuaticollis Pal 2019

Stephostethus tibialis Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Stephostethus tibialis* was described by Tarun K. Pal based on a Holotype collected from Arunachal Pradesh, West Kameng Distt., Bomdila, 2462 m and five Paratypes collected from different localities of Arunachal Pradesh. The type specimens have been deposited in the ZSIK. The species name refers to the presence of a small spine near apex in inner border in each of front, middle and hind tibiae of male of the species.

Stephostethus tibialis Pal 2019

Bellitudo aokii Pal 2019

Family
MONOTOMIDAE

Genus
Bellitudo
Pal, 2019

Bellitudo aokii Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The genus *Bellitudo* and the species *Bellitudo aokii* has been described by Tarun K. Pal based on a Holotype collected from Arunachal Pradesh, East Siang District, 3 Km. O-Boleng. The type specimens have been deposited in the ZSIK. The generic name is derived from Latin word 'Bellitudo' meaning elegance referring to the nicely shaped body of the beetle and the species has been named in honour of Prof. Jun-ichi Aoki for his contributions to the study of cucujoid and tenebrionoid beetles.

Europs cribricollis Pal 2019

Genus
Europs **Wollatson, 1854**

Europs cribricollis Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Europs cribricollis* was described by Tarun K. Pal based on a Holotype collected from Arunachal Pradesh, East Siang District, Nambung, 6 Km. O-Boleng and seven Paratypes collected from Arunachal Pradesh, Tirap District, Kheti, 10 Km. O-Khonsa. The type specimens have been deposited in the ZSIK. The speices name is derived from Latin word 'cribricollis' meaning perforated neck which refers to the moderately coarsely punctuate pronotum of the species.

Family
MORDELLIDAE

Genus
***Brodskyella* Horak, 1989**

Brodskyella konvickai Ruzzier and Yeshwanth. *The Coleopterists Bulletin*, 73 (4): 1087–1092, 2019

The species *Brodskyella konvickai* was described by E. Ruzzier and H.M. Yeshwanth based on a Holotype and one Paratype collected from Karnataka, Sirsi, Unchalli falls. The type specimens have been deposited in the collections of the Department of Entomology, Gandhi Krishi Vignan Kendra (GKVK), UASB, Bangalore. The species in named after Ondrej Konvicka, the authors' friend and specialist on the family Melandryidae.

Brodskyella konvickai Ruzzier and Yeshwanth 2019

Brodskyella viraktamathi Ruzzier and Yeshwanth 2019

Brodskyella viraktamathi Ruzzier and Yeshwanth. *The Coleopterists Bulletin*, 73 (4): 1087–1092, 2019

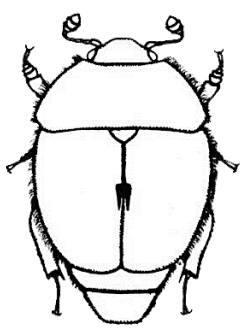
The species *Brodskyella viraktamathi* was described by E. Ruzzier and H.M. Yeshwanth based on a Holotype and one Paratype collected from Karnataka, Biligiri Hills, 925m. The type specimens have been deposited in the collections of the Department of Entomology, GKVK, UASB, Bangalore. The species is named in honour of Prof. C. A. Viraktamath for his contributions to insect taxonomy in India.

Family
NITIDULIDAE

Genus
***Amphicrossus* Erichson, 1843**

Amphicrossus adustipennis Dasgupta and Pal. *The Coleopterists Bulletin*, 73 (2): 307–320, 2019

The species *Amphicrossus adustipennis* was described by J. Dasgupta and T.K. Pal based on a Holotype collected from Arunachal Pradesh, Namdapha Tiger Reserve, Zero Camp (27.4455°N and 96.5358°E). The type specimen has been deposited in the ZSIK. The species name refers to the brownish elytra of the species.



Amphicrossus adustipennis Dasgupta and Pal 2019

Amphicrossus brunneus Dasgupta and Pal 2019

Amphicrossus brunneus Dasgupta and Pal. *The Coleopterists Bulletin*, 73 (2): 307–320, 2019

The species *Amphicrossus brunneus* was described by J. Dasgupta and T.K. Pal based on a Holotype and one Paratype collected from Arunachal Pradesh, Tirap District, Zero Camp (27.7422°N and 96.6424°E). The type specimens have been deposited in the ZSIK.The species name refers to the color of its integument.

Amphicrossus kabitae Dasgupta and Pal 2019

Amphicrossus kabitae Dasgupta and Pal. *The Coleopterists Bulletin*,73 (2): 307–320, 2019

The species *Amphicrossus kabitae* was described by J. Dasgupta and T.K. Pal based on a Holotype collected from Arunachal Pradesh, Tirap District (presently Changlang district), Zero Camp, 28 km-O-Miao (27.4847°N and 96.2084°E) and two Paratypes collected from Bengal (presently Jharkhand state), Rajmahal (25.0543°N and 87.8309°E). The type specimens have been deposited in the ZSIK.The species is named after Ms. Kabita Dasgupta, mother of the first author.

Genus
Carpophilus
Stephens, 1829

Carpophilus (Ecnomorphus) jahari Dasgupta & Pal.*Far Eastern Entomologist*, 378: 23-28, 2019

The species *Carpophilus (Ecnomorphus) jahari* was described by J. Dasgupta and T. K. Pal based on a Holotype and a Paratype collected from Arunachal Pradesh, East Siang Survey, 3 km-O-Boleng, under bark of hollock. The type specimens have been deposited in the ZSIK. The species is named after Mr. Jaharlal Dasgupta, father of one of the authors.

Carpophilus (Ecnomorphus) jahari Dasgupta & Pal 2019

Family
SCARABAEIDAE

Genus
***Maladera* Mulsant & Rey, 1871**

Maladera naveeni Sreedevi, Ranasinghe, Fabrizi and Ahrens. *European Journal of Taxonomy*, 567: 1–26, 2019

The species *Maladera naveeni* was described by K. Sreedevi, S. Ranasinghe, S. Fabrizi and D. Ahrens based on a Holotype collected from Karnataka, Shimoga, Shettyhalli, 570 m (13°56′N and 75°34′E). The type specimen has been deposited in NBAIR, Bangalore. The species name is dedicated to the collector of the new species, R. Naveen.

Maladera naveeni Sreedevi, Ranasinghe, Fabrizi and Ahrens 2019

Maladera sujitrae Sreedevi, Ranasinghe, Fabrizi and Ahrens. *European Journal of Taxonomy*, 567: 1–26, 2019

The species *Maladera sujitrae* was described by K. Sreedevi, S. Ranasinghe, S. Fabrizi and D. Ahrens based on a Holotype collected from Kerala, Kasaragod, 19 m (12°31′N and 74°59′E). The type specimen has been deposited in NBAIR, Bangalore. The species name is dedicated to the collector of the new species, M. Sujitra.

Maladera sujitrae Sreedevi, Ranasinghe, Fabrizi and Ahrens 2019

Maladera thirthahalliensis Sreedevi, Ranasinghe, Fabrizi and Ahrens 2019

Maladera thirthahalliensis Sreedevi, Ranasinghe, Fabrizi and Ahrens. *European Journal of Taxonomy*, 567: 1–26, 2019

The species *Maladera thirthahalliensis* was described by K. Sreedevi, S. Ranasinghe, S. Fabrizi and D. Ahrens based on a Holotype and two Paratypes collected from Karnataka, Shimoga, Thirthahalli, 589m (13°56′N and 75°38′E). The type specimens have been deposited in NBAIR, Bangalore.The species name refers to the type locality, Thirthahalli.

Maladera viraktamathi Sreedevi, Ranasinghe, Fabrizi and Ahrens. *European Journal of Taxonomy*, 567: 1–26, 2019

The species *Maladera viraktamathi* was described by K. Sreedevi, S. Ranasinghe, S. Fabrizi and D. Ahrens based on a Holotype collected from Mizoram, Kolasib, 888 m (24°13′N and 92°40′E). The type specimen has been deposited in NBAIR, Bangalore. The species name is dedicated to the Indian leafhopper taxonomist and entomologist, Prof. Chandrasekhara A. Viraktamath.

Maladera viraktamathi Sreedevi, Ranasinghe, Fabrizi and Ahrens 2019

Genus
Neoserica
Brenske, 1893

Neoserica (s. lat.) reuteri Sreedevi, Ranasinghe, Fabrizi and Ahrens. *European Journal of Taxonomy*, 567: 1–26, 2019

The species *Neoserica (s. lat.) reuteri* was described by K. Sreedevi, S. Ranasinghe, S. Fabrizi and D. Ahrens based on a Holotype collected fromArunachal Pradesh, Bomdila, 3000 m (27°16′N and 92°25′E). The type specimen has been deposited in BMNH. The species name is dedicated to its collector, Christoph Reuter (Beirut).

Neoserica (s. lat.) reuteri Sreedevi, Ranasinghe, Fabrizi and Ahrens 2019

Genus
Selaserica
Brenske, 1897

Selaserica hosanagarana Sreedevi, Ranasinghe, Fabrizi and Ahrens. *European Journal of Taxonomy*, 567: 1–26, 2019

The species *Selaserica hosanagarana* was described by K. Sreedevi, S. Ranasinghe, S. Fabrizi and D. Ahrens based on a Holotype and one Paratype collected from Karnataka, Shimoga, Hosanagara, 589 m (13°55′N and 75°04′E). The type specimens have been deposited in NBAIR, Bangalore. The species name refers to the type locality, Hosanagara.

Selaserica hosanagarana Sreedevi, Ranasinghe, Fabrizi and Ahrens 2019

Genus
Serica
MacLeay, 1819

Serica (s. str.) eberlei Sreedevi, Ranasinghe, Fabrizi and Ahrens 2019

Serica (s. str.) eberlei Sreedevi, Ranasinghe, Fabrizi and Ahrens. *European Journal of Taxonomy*, 567: 1–26, 2019

The species *Serica (s. str.) eberlei* was described by K. Sreedevi, S. Ranasinghe, S. Fabrizi and D. Ahrens based on a Holotype collected from Arunachal Pradesh, Sela pass, 4100 m (27°30′N and 92°03′E). The type specimen has been deposited in BMNH. The species name is dedicated to Dr. Jonas Eberle, in gratitude for his merits in the scarab working group at the Zoological Research Museum Alexander Koenig.

Family
ZOPHERIDAE

Genus
Colobicones
Grouvelle, 1918

Colobicones gibbosus Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Colobicones gibbosus* was described by Tarun K. Pal based on a Holotype collected from Arunachal Pradesh, West Kameng District, Gandhi Colony, Bomdila and four Paratypes collected from different parts of Arunachal Pradesh. The type specimens have been deposited in the ZSIK. The species name refers to the gibbose body-form of the species.

Colobicones gibbosus Pal 2019

Genus
Trachypholis
Erichson, 1845

Trachypholis foveolata Pal. *Memoirs of the Zoological Survey of India*, 23 (1): 1-298, 2019

The species *Trachypholis foveolata* was described by Tarun K. Pal based on a Holotype collected from Arunachal Pradesh, East Siang District, Nambuug, 6 Km. O-Boleng. The type specimens have been deposited in the ZSIK. The species-name foveolata refers to the shallow median fovea on pronotum of the species.

Trachypholis foveolata Pal 2019

Fossil Species

Phylum
ARTHROPODA

Class
INSECTA

Order
COLEOPTERA

Family
CHRYSOMELIDAE

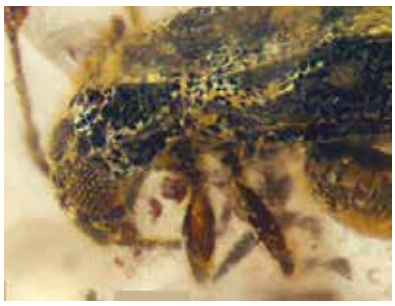
Genus
***Cambaltica* Nadein and Perkovsky, 2019**

Cambaltica paleoindica Nadein and Perkovsky. *Alcheringa: An Australasian Journal of Palaeontology,* DOI: 10.1080/ 03115518.2019.1622780, 2019

The genus *Cambaltica* and the species *Cambaltica paleoindica* were described by Konstantin S. Nadein and Evgeny E. Perkovsky based on a Holotype and one Paratype Amber specimens collected from Gujarat, Tadkeshwar lignite mine, Cambay Form. (Paleo–Eocene) (21°21.400'N and 73°4.532'E). The type specimens are presently with D. Grimaldi, American Museum of Natural History, New York, USA (AMNH). The genus name combines the name of the Cambay amber with *Altica*, the type genus of the tribe and the species name combines the Greek prefix 'paleo-' meaning 'ancient' and India, the country of origin of the Cambay amber.

Cambaltica paleoindica
Nadein and Perkovsky 2019

Genus
***Davidaltica* Nadein and Perkovsky, 2019**



Davidaltica cambayensis
Nadein and Perkovsky 2019

Davidaltica cambayensis Nadein and Perkovsky. *Alcheringa: An Australasian Journal of Palaeontology,* DOI: 80/ 03115518. 2019.1622780, 2019

The genus *Davidaltica* and the species *Davidaltica cambayensis* was described by Konstantin S. Nadein and Evgeny E. Perkovsky based on a Holotype and two Paratype Amber specimens collected from Gujarat, Tadkeshwar lignite mine, Cambay Form (Paleo–Eocene) (21°21.400'N and 73°4.532'E). The type specimens are presently with AMNH. The genus name is a combination of 'David', the name of the amber's collector David Grimaldi and the genus name Altica and the species name refers to the name of the amber deposit.

Genus:
***Protorthaltica* Nadein and Perkovsky, 2019**

Protorthaltica setosella Nadein and Perkovsky. *Alcheringa: An Australasian Journal of Palaeontology,* DOI: 10.1080/ 03115518.2019.1622780, 2019

The genus *Protorthaltica* and the species *Protorthaltica setosella* was described by Konstantin S. Nadein and Evgeny E. Perkovsky based on a Holotype Amber specimen collected from Gujarat, Tadkeshwar lignite mine, Cambay Form (Paleo–Eocene) (21°21.400'N and 73°4.532'E). The type specimen is presently with AMNH. The genus name is a combination of the Ancient Greek prefix 'proto', meaning 'earliest form of', with the genus name *Orthaltica*, which the new genus resembles and the species name refers to the setose dorsum of the new species.

Protorthaltica setosella
Nadein and Perkovsky 2019

3.9. Diptera

Phylum
ARTHROPODA

Class
INSECTA

Order
DIPTERA

Family
ASILIDAE

Genus
***Astochia* Becker, 1913**

Astochia venkataramani Roy, Parui, Mitra and Chakraborty *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1593254, 2019

The species *Astochia venkataramani* was described by S. Roy, P. Parui, B. Mitra and S. K. Chakraborty based on a Holotype collected from West Bengal, South 24 Parganas, Sundarban Biosphere Reserve, Bali Island, 9 no. gheri (22°05.335'N, 088°45.552'E). The type specimen has been deposited in the NZC ZSIK. The species is named after Dr. K. Venkataraman, Former Director of the ZSI.

Astochia venkataramani Roy, Parui, Mitra and Chakraborty 2019

Family
CERATOPOGONIDAE

Genus
***Brachypogon* Kieffer, 1899**

Brachypogon (Brachypogon) beccus Saha, Brahma and Hazra. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1616000, 2019

The species *Brachypogon (Brachypogon) beccus* was described by P. Saha, S. Brahma and N. Hazra based on a Holotype and one Paratype collected from West Bengal, Dakshin Dinajpur, Nayabazar (25°21'49.4"N and 88°31'22.2"E). The type specimens have been deposited in the Burdwan University Entomology Division (BUENTD). The species name refers to the duck-beak like appearance of basal arms of the aedeagus.

Brachypogon (Brachypogon) corneus Saha, Brahma and Hazra. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1616000, 2019

The species *Brachypogon (Brachypogon) corneus* was described by P. Saha, S. Brahma and N. Hazra based on a Holotype collected from West Bengal, Uttar Dinajpur, Kaliyaganj (25°38'06.4"N and 88°19'31.2"E), two Paratypes collected from Dakshin Dinajpur, Balurghat (25°14'14.22"N and 88°46'59.02"E) and one Paratype collected from Dakshin Dinajpur, Kumarganj (25°25'26.5"N and 88°43'43.5"E). The type specimens have been deposited in the BUENTD. The species name refers to the 'horn' like apicodorsal arm of paramere.

Brachypogon (Isohelea) nevis Saha, Brahma and Hazra. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1616000, 2019

The species *Brachypogon (Isohelea) nevis* was described by P. Saha, S. Brahma and N. Hazra based on a Holotype collected fromWest Bengal, Dakshin Dinajpur, Balurghat (25°19'41.5"N and 88°41'03.9"E). The type specimen has been deposited in the BUENTD. The species name refers to the boat shaped gonostylus.

Family
CHIRONOMIDAE

Genus
***Dicrotendipes* Kieffer, 1913**

Dicrotendipes clavus Mukherjee, Pal and Hazra. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1612477, 2019

The species *Dicrotendipes clavus* was described by T. Mukherjee, G. Pal and N. Hazra based on a Holotype and one Paratype collected from West Bengal, Alipurduar, Pukuria (26°72'N and 89°58'E) and one Paratype collected from West Bengal, Jalpaiguri, Birparah (26°70'N and 89°14'E). The type specimens have been deposited in the BUENTD. The species name refers to the shape of the anal point simialr to the iron nail.

Family
CULICIDAE

Genus
Paraedes **Edwards, 1934**

Paraedes jambulingami Natarajan. *Zootaxa*, 4691 (3): 286–292, 2019

The species *Paraedes jambulingami* was described by R. Natarajan based on a Holotype and eight Paratypes collected from Assam, Dibrugarh District, Soraipung, 132 m (27°20'23.6"N and 95°29'25.4"E). The type specimens have been deposited in the Vector Control Mosquito Museum, Puducherry. The species is named after Dr. Purushothaman Jambulingam, former Director, Indian Council of Medical Research-Vector Control Research Centre, Puducherry.

Family
DIOPSIDAE

Genus
Megalabops **Frey, 1928**

Megalabops dharaensis H.R. Feijen and C. Feijen. *Israel Journal of Entomology*,49 (2): 35–72, 2019

The species *Megalabops dharaensis* was described by Hans R. Feijen and Cobi Feijen based on a Holotype and two Paratypes collected from Darjeeling, Gopaldhara, 1050-1450 m (26°55'41"N and 88°09'43"E). The type specimens have been deposited in Naturalis Biodiversity Center, Leiden, The Netherlands. The species name is derived from the word *dhara* which means "stream of clear water" in Hindi.

Megalabops dharaensis
H.R. Feijen and C. Feijen 2019

Teleopsis amnoni H.R. Feijen and C. Feijen. *Israel Journal of Entomology*,49 (2): 35–72, 2019

The species *Teleopsis amnoni* was described by Hans R. Feijen and Cobi Feijen based on a Holotype and one Paratype collected from Karnataka, Highway 206, 45 km Honavar, 550 m (14°16.70'N and 74°43.21'E). The type specimens have been deposited in the Steinhardt Museum of Natural History, Tel Aviv University, Israel. The species is named after Dr Amnon Freidberg.

Genus
Teleopsis **Rondani, 1875**

Teleopsis amnoni
H.R. Feijen and C. Feijen 2019

Family
SIMULIIDAE

Genus
Simulium **Latreille, 1802**

Simulium (Gomphostilbia) agasthyamalaiense Vijayan, Anbalagan, Rekha, Dinakaran and Krishnan. *Journal of Asia-Pacific Entomology*, 22: 568–574, 2019

The species *Simulium (Gomphostilbia) agasthyamalaiense* was described by S. Vijayan, S. Anbalagan, K. Rekha, S. Dinakaran and M. Krishnan based on a Holotype and twenty nine Paratypes collected from Tamil Nadu, Tirunelveli district, Agasthyamalai Biosphere Reserve, Kuthiravetti, Nalumukku, 1250 m (8°55'04.16"N and 77°3601.68"E). The type specimens have been deposited at Department of Zoology, Government Arts College, Melur, Madurai, Tamil Nadu. The species name refers to the type locality.

Simulium (Gomphostilbia) kumbakkaraiense Anbalagan, Vijayan, Dinakaran and Krishnan. *Zootaxa*,4551 (4): 479–486, 2019

The species *Simulium (Gomphostilbia) kumbakkaraiense* was described by S. Anbalagan, S. Vijayan, S. Dinakaran and M. Krishnan based on a Holotype and twenty four Paratypes collected from Tamil Nadu, Theni district, Periyakulam taluk, Kumbakkarai Falls, 402 m (10°18'30.3''N and 77°52'95.8''E). The type specimens have been deposited in Department of Zoology, Government Arts College, Melur, Madurai, Tamil Nadu. The species name refers to the type locality.

Simulium (Simulium) yanaense Anbalagan, Vijayan, Balachandran and Dinakaran. *Journal of Threatened Taxa*, 11 (5): 13573–13578, 2019

The species *Simulium (Simulium) yanaense* was described by S. Anbalagan, S. Vijayan, C. Balachandran and S. Dinakaran based on a Holotype and fifty one Paratypes collected from Karnataka, Uttara Kannada District, Kumta Taluk, Yana downstream, 55 m (14.522°N and 74.320°E). The type specimens have been deposited in the Department of Zoology, Government Arts College, Melur, Madurai, Tamil Nadu. The species name refers to the type locality.

Family
SYRPHIDAE

Genus
***Rohdendorfia* Smirnov, 1924**

Rohdendorfia bella Mengual and Barkalov. *Acta Entomologica Musei Nationalis Pragae*,59 (1): 325–336, 2019

The *Rohdendorfia bella* species was described by X. Mengual and A. V. Barkalov based on a Holotype collected from Jammu and Kashmir State, Ladakh, near Tso Moriri (lake), 5333 m (32°54'N and 78°18'E) and seventy seven Paratypes collected from different localities of Jammu and Kashmir. The type specimens have been deposited in Zoologisches Forschungs museum Alexander Koenig, Bonn, Germany (ZFMK), Institute of Systematics and Ecology of Animals, Siberian Branch of the Russian Adacemy of Sciences, Novosibirsk, Russia (ISEA) and Canadian National Collection of Insects, Arachnids and Nematodes, Ottawa, Canada (CNC). The species named is derived from the Latin word *bellus* meaning pretty.

Rohdendorfia bella Mengual and Barkalov 2019

Family
TEPHRITIDAE

Genus
***Bactrocera* Macquart, 1835**

Bactrocera (Bactrocera) prabhui David and Ramani. *Zootaxa*, 4551 (2): 101–146, 2019

The species *Bactrocera (Bactrocera) prabhu*i was described by K.J. David and S. Ramani based on a Holotype and two Paratypes collected from Karnataka, Kodagu, Somwarpet. The type specimens have been deposited in NBAIR, Bangalore and Department of Agricultural Entomology, UASB, Bangalore. The species is named after its collector, Prabhu, G.

Bactrocera (Parazeugodacus) conica David and Ramani. *Zootaxa*, 4551 (2): 101–146, 2019

The species *Bactrocera (Parazeugodacus) conica* was described by K.J. David and S. Ramani based on a Holotype collected from Karnataka, Chikmagalur, Mudigere. The type specimen has been deposited in NBAIR, Bangalore. The species is named for its conical-shaped spicules.

Genus
***Coelotrypes* Bezzi, 1924**

Coelotrypes meremmiae David and Hancock. *Zootaxa*, 4563 (3): 584–594, 2019

The species *Coelotrypes meremmiae* was described by K.J. David and D.L. Hancock based on a Holotype and three Paratypes collected from Karnataka, Vittal. The host plant of the new species is *Meremmia vitifolia* (N. L. Burman) H. Hallier. The type specimens have been deposited in NBAIR, Bangalore. The species name is derived from the genus name of the host plant.

Coelotrypes paralatilimbatus David and Hancock. *Zootaxa*, 4563 (3): 584–594, 2019

The species *Coelotrypes paralatilimbatus* was described by K.J. David and D.L. Hancock based on a Holotype and one Paratype collected fromKarnataka, Madikeri, Chettalli. The host plant of the new species is *Ipomoea purpurea* (L.) Roth. The type specimens have been deposited in NBAIR, Bangalore. The species name is derived from its resemblance to *Coelotrypes latilimbatus*.

3.10. Ephemeroptera

Phylum
ARTHROPODA

Class
INSECTA

Order
EPHEMEROPTERA

Family
EPHEMERELLIDAE

Genus
***Cincticostella* Allen, 1971**

Cincticostella ranga Martynov, Selvakumar, Subramanian, Sivaramakrishnan, Chandra, Palatov, Sinha and Jacobus. *Zootaxa*, 4551 (2): 147–179, 2019

The species *Cincticostella ranga* was described by A.V. Martynov, C. Selvakumar, K.A. Subramanian, K.G. Sivaramakrishnan, K. Chandra, D.M. Palatov, B. Sinha and L.M. Jacobus based on a Holotype and five Paratypes collected from Arunachal Pradesh, Lower Subansiri District, Talle Valley, 2370 m (27.537201N and 93.959883E), and three Paratypes collected from Arunachal Pradesh, Lower Subansiri District, Ranga River, 625 m (27.396404N and 93.757378E). The type specimens have been deposited in the Central Entomological Laboratory (CEL), ZSIK. The species is named after the type locality, Ranga River.

Cincticostella ranga Martynov, Selvakumar, Subramanian, Sivaramakrishnan, Chandra, Palatov, Sinha and Jacobus 2019

Cincticostella richardi Martynov, Selvakumar, Subramanian, Sivaramakrishnan, Chandra, Palatov, Sinha and Jacobus. *Zootaxa*, 4551 (2): 147–179, 2019

The species *Cincticostella richardi* was described by A.V. Martynov, C. Selvakumar, K.A. Subramanian, K.G. Sivaramakrishnan, K. Chandra, D.M. Palatov, B. Sinha and L.M. Jacobus based on a Holotype and three Paratypes collected from Uttarakhand, Chamoli district, Pindar River (2 km above of the Karnaprayag town), 780 m (30.251625N and 79.229203E), and one Paratype collected from Uttarakhand, Chamoli district, Alaknanda River (700 m above mouth of the Pindar River), 800 m (30.267728N and 79.220931E). The type specimens have been deposited in the NMNH of the National Academy of Sciences of Ukraine, Kyiv, Ukraine. The new species is named in honor of the late Dr. Richard K. Allen (USA), who described the subgenus *Rhionella*.

Cincticostella richardi Martynov, Selvakumar, Subramanian, Sivaramakrishnan, Chandra, Palatov, Sinha and Jacobus 2019

Family
ISONYCHIIDAE

Genus
***Isonychia* Eaton, 1871**

Isonychia (Isonychia) moyarensis Vasanth, Selvakumar, Subramanian, Babu and Sivaramakrishnan 2019

Isonychia (Isonychia) moyarensis Vasanth, Selvakumar, Subramanian, Babu and Sivaramakrishnan. *Zootaxa*,4586 (1): 162–170, 2019

The species *Isonychia (Isonychia) moyarensis* was described by M. Vasanth, C. Selvakumar, K.A. Subramanian, R. Babu and K. G. Sivaramakrishnan based on a Holotype and eight Paratypes collected from Tamil Nadu, Nilgiri District, Moyar River, Mudumalai Tiger Reserve, Theppakadu, 864 m (11°34.787N and 076°35.208E), and one Paratype collected from Tamil Nadu, Coimbatore District, Mettupalayam, Kallar River, 386 m (11°20.293N and 076°52.925E). The type specimens have been deposited in Southern Regional Centre, Zoological Survey of India, Chennai (ZSI-SRC). The species is named after the type locality.

Family
LEPTOPHLEBIIDAE

Genus
***Choroterpes* Eaton (1881)**

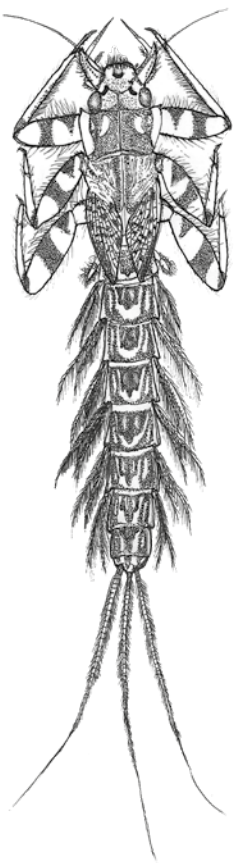
Choroterpes (Euthraulus) kalladaensis Rekha, Anbalagan, Dinakaran, Balachandran and Krishnan. *Zootaxa*, 4565 (4): 539–544, 2019

The species *Choroterpes (Euthraulus) kalladaensis* was described by K. Rekha, S. Anbalagan, S. Dinakaran, C. Balachandran, and M. Krishnan based on a Holotype and eight Paratypes collected from Kerala, Kollam district, Mukkadayar stream, 380 m (09°01.095''N and 77°03.451''E). The type specimens have been deposited at Department of Biochemistry, Central University of Rajasthan and Department of Zoology, The Madura College, Madurai, Tamil Nadu. The species name refers to the river basin name, Kallada, where this new species was collected.

Genus
***Thraulus* Eaton, 1881**

Thraulus thiagarajani Balasubramanian and Muthukatturaja. *Zootaxa*,4638 (1): 136–142, 2019

The species *Thraulus thiagarajani* was described by C. Balasubramanian and M. Muthukatturaja based on a Holotype and thirty two Paratypes collected from Karnataka, Kodagu district, Sampaje, Payaswini river, 152 m (12°29'.47"N and 75°33'.32"E). The type specimens have been deposited in the Southern Regional Center, Zoological Survey of India, Chennai. The species is named in honor of Karumuttu Thiagarajan Chettiyar, founder of Thiagarajar group of institutions, Madurai



Rhoenanthus (Rhoenanthus) tungaiensis Balasubramanian, Muthukatturaja and Anbalagan 2019

Family
POTAMANTHIDAE

Genus
***Rhoenanthus* Eaton, 1881**

Rhoenanthus (Rhoenanthus) tungaiensis Balasubramanian, Muthukatturaja and Anbalagan. *Zootaxa*, 4664 (2): 293–300, 2019

The species *Rhoenanthus (Rhoenanthus) tungaiensis* was described by C. Balasubramanian, M. Muthukatturaja and S. Anbalagan based on a Holotype and forty five Paratypes collected from Karnataka, Chikkamagalore district, Sringeri, Tunga River, 669 m (13°36'.27"N and 75°19'.89"E). The type specimens have been deposited in ZSI-SRC, Chennai and Zoological Research Laboratory Museum, Thiagarajar College, Madurai, Tamil Nadu. The species name refers to the locality name, Tunga River, where the new species was collected.

3.11. Hemiptera

Phylum
ARTHROPODA

Order
HEMIPTERA

Family
ALEYRODIDAE

Genus
***Aericerus* Dubey, 2019**

Aericerus meghalayensis Dubey. *Annales Zoologici (Warszawa)*, 69(2): 407-416, 2019

The genus *Aericerus* and the species *Aericerus meghalayensis* was described by Anil Kumar Dubey based on a Holotype and one hundred and twenty-six Paratypes collected from Meghalaya, Barapani. The species was found infesting *Terminalia calamansanai* (Blanco). The type specimens have been deposited in ZSIK. The genus name is assembled from two Latin words 'aeris' for 'copper' and 'cera' for 'wax' ascribing from coppery granular wax secretion from submarginal wax glands and the species is named after its type locality.

Aericerus meghalayensis Dubey 2019

Asialeyrodes nicobarica Dubey 2019

Genus
***Asialeyrodes* Corbett, 1935**

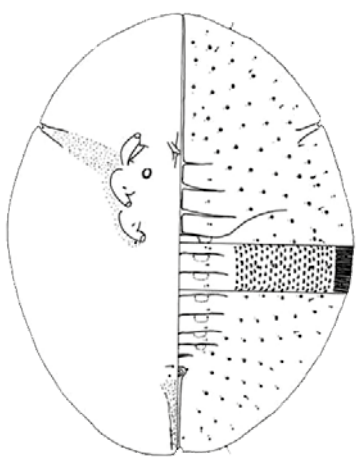
Asialeyrodes nicobarica Dubey. *Zootaxa*, 4674 (4): 439–450, 2019

The species *Asialeyrodes nicobarica* was described by Anil Kumar Dubey based on a Holotype and fortyfour Paratypes collected from Great Nicobar Biosphere Reserve (6°53'57.87"N and 93°53'32.55"E). The type specimens have been deposited in ZSIK. The species is named after its type locality.

Genus
***Dialeurodes* Cockerell, 1902**

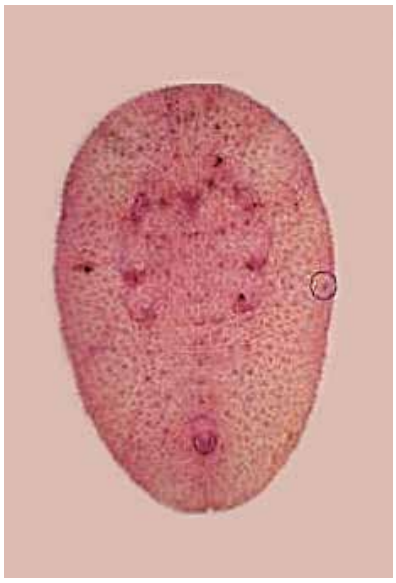
Dialeurodes pongamiae Sundararaj & Vimala. *ENTOMON*, 44(1): 79-80, 2019

The species *Dialeurodes pongamiae* was described by R. Sundararaj and D. Vimala based on a Holotype and eleven Paratypes collected from Karnataka, Bangalore. The host of the species is *Pongamia pinnata*. The type specimens have been deposited in Institute of Wood Science and Technology, Bengaluru and ZSI-SRC. The species is named after its host plant genus.



Dialeurodes pongamiae Sundararaj & Vimala 2019

Genus
Fippataleyrodes
Sundararaj & David, 1992



Fippataleyrodes divyae Revathi & Sundararaj 2019

Fippataleyrodes divyae Revathi & Sundararaj. *Biological Forum – An International Journal*, 11(1): 183-186, 2019

The species *Fippataleyrodes divyae* was described by T.G. Revathi and R. Sundararaj based on a Holotype and one Paratype collected from Karnataka, Jarakbandae. The type specimens have been deposited in the National Forest Insect Collection, Forest Research Institute, Dehradun (NFIC-FRI) and NBAIR. The species is named after its collector, Ms. K.P. Divya.

Genus
Pealius
Quaintance and Baker (1914)

Pealius satakshiae Dubey and Singh 2019

Pealius satakshiae Dubey and Singh. *Journal of Natural History*, 53 (33-34): 2123-2131, 2019

The species *Pealius satakshiae* was described by Anil Kumar Dubey and Sudhir Singh based on a Holotype and twenty Paratypes collected from Himachal Pradesh, Chail Wildlife Sanctuary (30.969°N and 77.197°E). The type specimens have been deposited in the NFIC-FRI. The species is named after Ms Satakshi, a high school student who first indicated the occurrence of this species in the field.

Genus
Pseudozaphanera
Manzari (2006)

Pseudozaphanera narendramodii Ragupathy and Radhakrishnan 2019

Pseudozaphanera narendramodii Ragupathy and Radhakrishnan. *Indian Forester*, 145 (4): 387-391, 2019

The species *Pseudozaphanera narendramodii* was described by Ethiraj Ragupathy and R. Radhakrishnan based on a Holotype and one Paratype collected from Tamil Nadu, Shenbagathoppu hills. The type specimens have been deposited in the collection of NFIC-FRI. The species is named after the Honorable Prime Minister of India, Narendra Modi.

Pushpaleyrodes glandulus Sundararaj and Vimala. *Journal of Entomology and Zoology Studies*, 7 (3): 245-247, 2019

The genus *Pushpaleyrodes* and the species *Pushpaleyrodes glandulus* was described by R. Sundararaj and D. Vimala based on a Holotype and six Paratypes collected from Kerala, Palakkad. The new species was collected from the host plant *Xanthophyllum flavescens*. The Paratypes have been deposited in the NFIC-FRI, ZSIK and Institute of Wood Science and Technology, Bangalore. The species is named after Dr. (Mrs) Pushpa who collected the species and in recognition of her contribution on Indian whiteflies.

Pushpaleyrodes glandulus Sundararaj and Vimala 2019

Genus ***Pushpaleyrodes*** **Sundararaj and Vimala, 2019**

Forticauda borchsenii Gavrilov-Zimmin. *Tropical Zoology*, DOI: https://doi.org/10.1080/03946975.2019.1641673, 2019

The genus *Forticauda* and the species *Forticauda borchsenii* was described by Ilya A. Gavrilov-Zimmin based on a Holotype and one Paratype collected from Assam, Nongkerdem. The type specimens have been deposited at the Zoological Institute, Russian Academy of Sciences in St. Petersburg, Russia. The generic name is derived from two Latin words, “fortis” meaning strong and “cauda” meaning tail and the species is named in honor of the collector of the type material, the late professor N.S. Borchsenius, famous coccidologist.

Family **ASTEROLECANIIDAE**

Genus ***Forticauda*** **Gavrilov-Zimmin, 2019**

Aalinga brunoflava Viraktamath and Webb. *Zootaxa*, 4547 (1): 001-069, 2019

The genus *Aalinga* and species *Aalinga brunoflava* was described by C.A. Viraktamath and M.D. Webb based on a Holotype collected from Andaman and Nicobar Islands, North Andaman, Diglipur, 15 mts (13°14’53.9”N and 92°58’37.5”E) and twenty-one Paratypes collected from different localities of Andaman and Nicobar Islands. The type specimens have been deposited in UASB, NPC, NBAIR and (BMNH). The genus name refers to the nature of the insect which sits closely pressed to the leaf surface as if it is embracing the leaf and the species name alludes to the brownish yellow color of the species.

Aalinga brunoflava Viraktamath and Webb 2019

Family **CICADELLIDAE**

Genus ***Aalinga*** **Viraktamath & Webb, 2019**

Genus
Buloria
Distant, 1908

Buloria indica Viraktamath and Webb 2019

Buloria indica Viraktamath and Webb. *Zootaxa*,4547 (1): 001-069, 2019

The species *Buloria indica* was described by C.A. Viraktamath and M.D. Webb based on a Holotype collected from Karnataka, Tumkur and seventeen Paratypes collected from different localities of Karnataka and Bangalore. The type specimens have been deposited in UASB, NPC, NBAIR and BMNH. The species name alludes to the country where the species occurs.

Genus
Calodia
Nielson, 1982

Calodia deergha Viraktamath and Meshram 2019

Calodia deergha Viraktamath and Meshram. *Zootaxa*,4653 (1): 001–091, 2019

The species *Calodia deergha* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Tamil Nadu, Courtallam. The type specimen has been deposited in UASB. The species name is Samskrit meaning long for processes of the aedeagal shaft.

Calodia keralica Viraktamath and Meshram 2019

Calodia keralica Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Calodia keralica* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype and two Paratypes collected from Kerala, Kasargod. The type specimens have been deposited in NPC and UASB.The species was named after Kerala state from where the material was collected.

Calodia kumari Viraktamath and Meshram 2019

Calodia kumari Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Calodia kumari* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Karnataka, Belgaum, Castle Rock, 569 m (15°25.293' N, 74°19.734' E). The type specimen has been deposited in UASB. This species is named after Dr. A.R.V. Kumar, who collected the specimen.

Calodia neofusca Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Calodia neofusca* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Karnataka, Chettalli and ten Paratypes collected from various localities of Kerala and Karnataka. The type specimens have been deposited in the NPC and UASB, Bengaluru. The species name is descriptive for its superficial resemblance to C. *fusca* (Melichar).

Calodia neofusca Viraktamath and Meshram 2019

Calodia periyari Viraktamath and Meshram. *Zootaxa*,4653 (1): 001–091, 2019

The species *Calodia periyari* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Kerala, Thekkady, 884 m. The specimen was deposited in UASB. The species is named after the Periyar National Park and Wildlife Sanctuary, the type locality.

Calodia periyari Viraktamath and Meshram 2019

Calodia tridenta Viraktamath and Meshram. *Zootaxa*,4653 (1): 001–091, 2019

The species *Calodia tridenta* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Kerala, Nelliampathy, 158 m (08°51'10.04''N and 77°02'04.74''E). The type specimen has been deposited in the NPC. The name *tridenta* is descriptive for the 3 branched proximal process of the aedeagus.

Calodia tridenta Viraktamath and Meshram 2019

Genus
Flatfronta
Chen & Li, 1997

Flatfronta bella Viraktamath and Webb 2019

Flatfronta bella Viraktamath and Webb. *Zootaxa*, 4547 (1): 001-069, 2019

The species *Flatfronta bella* was described by C.A. Viraktamath and M.D. Webb based on a Holotype collected from Karnataka, Sirsi, Sugavi and nine Paratypes collected from different localities Karnataka and Bangalore. The specimens have been deposited in UASB, NPC NBAIR and BMNH. The species name alludes to the beautiful appearance of the species.

Genus
Glaberana
Nielson 2015

Glaberana acuta Viraktamath and Meshram 2019

Glaberana acuta Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Glaberana acuta* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Meghalaya, Umroi and three Paratypes collected from various localities of Meghalaya and Mizoram. The type specimens have been deposited in the NPC and UASB, Bengaluru. The species name is descriptive for the pointed caudodorsal process.

Glaberana purva Viraktamath and Meshram. *Zootaxa*,4653 (1): 001–091, 2019

The species *Glaberana purva* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Manipur, Ukhrul, 1647 m (25°06.485'N, 94°21.022'E). The specimen was deposited in the UASB, Bengaluru. The species name refers to the Eastern region of India where the species lives.

Glaberana purva Viraktamath and Meshram 2019

Mukaria omani Viraktamath and Webb. *Zootaxa*, 4547 (1): 001-069, 2019

The species *Mukaria omani* was described by C.A. Viraktamath and M.D. Webb based on a Holotype collected from Mysore (Now Karnataka), Bangalore and forty Paratypes collected from Karnataka, Bangalore, Gujarat and Madhya Pradesh. The type specimens have been deposited in UASB and BMNH. The species is named after the late Dr. Paul Oman, renowned American leafhopper worker and mentor of the first author.

Genus
Mukaria **Distant, 1908**

Mukaria omani Viraktamath and Webb 2019

Mukaria vakra Viraktamath and Webb. *Zootaxa*, 4547 (1): 001-069, 2019

The species *Mukaria vakra* was described by C.A. Viraktamath and M.D. Webb based on a Holotype and five Paratypes collected from Karnataka, Nagaragali R.F. Belgaum. The specimens have been deposited in UASB and BMNH. The species name refers to the curved subapical process of the aedeagus.

Mukaria vakra Viraktamath and Webb 2019

Genus
***Mukariella* Viraktamath and Webb, 2019**

Mukariella daii Viraktamath & Webb 2019

Mukariella daii Viraktamath & Webb. *Zootaxa*,4547 (1): 001-069, 2019

The genus *Mukariella* and the species *Mukariella daii* was described by C.A. Viraktamath and M.D. Webb based on a Holotype collected from Manipur, Keibul Lamjao National Park, 1294 m (24°23.822'N and 94°04.634'E). The type specimen has been deposited in UASB. The species is named after Dr. Wu Dai, Northwest A & F University, China, for his contributions to the study of deltocephaline leafhoppers.

Myittana (Benglebra) cornuta Viraktamath and Webb. *Zootaxa*, 4547 (1): 001-069, 2019

The species *Myittana (Benglebra) cornuta* was described by C.A. Viraktamath and M.D. Webb based on a Holotype collected from Karnataka, 12 km NW Hoskote and five Paratypes collected from various localities of Karnataka and Bangalore. The type specimens have been deposited in UASB, Bangalore, Karnataka and BMNH. The species name refers to the short projections on the aedeagus.

Genus
***Myittana* Distant, 1908**

Myittana (Benglebra) cornuta Viraktamath and Webb 2019

Myittana (Myittana) distincta Viraktamath and Webb. *Zootaxa*,4547 (1): 001-069, 2019

The species *Myittana (Myittana) distincta* was described by C.A. Viraktamath and M.D. Webb based on a Holotype collected from Karnataka, Bannerghatta. The type specimen has been deposited in UASB. The species name alludes to the distinctive characters of the pygofer process and the aedeagus.

Myittana (Myittana) distincta Viraktamath and Webb 2019

Myittana (Savasa) constricta Viraktamath and Webb. *Zootaxa*, 4547 (1): 001-069, 2019

The species *Myittana (Savasa) constricta* was described by C.A. Viraktamath and M.D. Webb based on a Holotype collected from Andhra Pradesh, Hyderabad and sixty-four Paratypes collected from different localities of Andhra Pradesh, Himachal Pradesh, Gujarat, Karnataka, Madhya Pradesh, Punjab, Tamil Nadu and Uttarakhand. The type specimens have been deposited in UASB and BMNH. The species name alludes to the basal constriction of the aedeagal shaft.

Myittana (Savasa) constricta Viraktamath and Webb 2019

Genus
Olidiana
McKamey, 2006

Olidiana fletcheri Viraktamath and Meshram 2019

Olidiana fletcheri Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Olidiana fletcheri* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Meghalaya, Pomlum and one Paratype collected from Meghalaya, Barapani. The type specimens have been deposited in the NPC and UASB. This species is named after Dr. Murray J. Fletcher, (Australia) in recognition of his contributions to the leafhopper taxonomy.

Olidiana lanceolata Viraktamath and Meshram 2019

Olidiana lanceolata Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Olidiana lanceolata* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Sikkim, 10 Km W Ranipool, 1516 m and one Paratype collected from Sikkim, Gangtok, 1759 m. The type specimens have been depositedin the UASB, Bengaluru. The species name is descriptive for the long, narrow pygofer ventral process.

Olidiana umroensis Viraktamath and Meshram 2019

Olidiana umroensis Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Olidiana umroensis* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Meghalaya, Barapani, 1516 m and twenty Paratypes collected from different localities of Meghalaya. The specimens have been deposited in the NPC and UASB, Bengaluru. The species is named for the locality, Umroi airport, Shillong.

Olidiana unidenta Viraktamath andMeshram 2019

Olidiana unidenta Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Olidiana unidenta* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype and one Paratype collected from Assam, Margherita, 163.5 m (27°15'47.4''N and 095°45'59.8''E). The type specimens have been deposited in the NPC and UASB, Bengaluru, India. The species name is descriptive for the angulate projection at midlength of aedeagal shaft.

Genus
Pseudosubhimalus
Ghauri, 1974

Pseudosubhimalus trilobatus Niranjana, Meshram, Shashank, Stuti, and Hashmi 2019

Pseudosubhimalus trilobatus Niranjana, Meshram, Shashank, Stuti, and Hashmi. *PeerJ*, DOI: 10.7717/peerj.7162, 2019

The species *Pseudosubhimalus trilobatus* was described by G. N. Niranjana, N. M. Meshram, P. R. Shashank, Stuti, and T. R. Hashmi based on a Holotype and six Paratypes collected from Himachal Pradesh, Dalang maidan, 3,300 (32.6192°N and 77.3784°E). The type specimens have been deposited in NPC, New Delhi. The species name refers to the three lobed apex of aedeagus.

Scaphotettix arcuatus Viraktamath & Webb. *Zootaxa*, 4547 (1): 001-069, 2019

The species *Scaphotettix arcuatus* was described by C.A. Viraktamath and M.D. Webb based on a Holotype collected from West Bengal, Darjeeling, 2176 m and thirty-four Paratypes collected from different localities of West Bengal, Mizoram and Meghalaya. The specimens have been deposited in UASB and BMNH. The species name alludes to the arcuate ventral pygofer process.

Genus
Scaphotettix
Matsumura, 1914

Scaphotettix arcuatus Viraktamath & Webb 2019

Singillatus parapectitus Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Singillatus parapectitus* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Arunachal Pradesh, Chidu, 414 m (28°11'50.5"N and 095°47'03.7"E). The type specimen has been deposited in the UASB, Bengaluru. The species is named for its external resemblance to Olidiana pectita (Distant).

Genus
Singillatus
Nielson 2015

Singillatus parapectitus Viraktamath and Meshram 2019

Singillatus serratispatulatus Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Singillatus serratispatulatus* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Manipur, Tengnoupal Sita road, 1352 m (24°23.332'N and 94°08.826'E) and three Paratypes collected from various localities of Manipur. The specimens have been deposited in the UASB, Bengaluru. The species name is descriptive for the serrated spatulate caudoventral process of the male pygofer.

Singillatus serratispatulatus Viraktamath and Meshram 2019

Trinoridia dialata Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Trinoridia dialata* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Maharashtra, Srivardhan and nineteen Paratypes collected from Karnataka, Bidar, Papanasini, 643 m (17°55'729"N and 077°529.497"E). The type specimens have been deposited in the NPC, and UASB, Bengaluru. The species name is descriptive for the long, dialated setaceous process of the aedeagal shaft.

Genus
Trinoridia
Nielson, 2015

Trinoridia dialata Viraktamath and Meshram 2019

Trinoridia ochrocephala Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Trinoridia ochrocephala* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Kerala, Nelliampathy. The type specimen has been deposited in the NPC. The species name is descriptive for the distinctive yellowish brown head.

Trinoridia ochrocephala Viraktamath and Meshram 2019

Genus
***Trinoridia* Nielson, 2015**

Trinoridia piperica Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Trinoridia piperica* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Kerala, Nelliampathy and seven Paratypes collected from different localities of Kerala, Karanataka and Tamil Nadu. The type specimens have been deposited in the NPC and UASB, Bengaluru. This species is named after one of its host plant genera, *Piper*.

Trinoridia piperica Viraktamath and Meshram 2019

Trinoridia ramamurthyi Viraktamath and Meshram 2019

Trinoridia ramamurthyi Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Trinoridia ramamurthyi* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Karnataka, Bangalore, Hessarghatta, 930 m (12°58'N and 77°35'E) and twentyfive Paratypes collected from Karnataka, Maharashtra and Tamil Nadu. The type specimens have been deposited in the NPC, and UASB, Bengaluru. The species is named after Prof. V.V. Ramamurthy, for his contributions to insect taxonomy.

Trinoridia saraikela Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Trinoridia saraikela* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype and two Paratypes collected from Jharkhand, Saraikela. The specimens have been deposited in the NPC and UASB, Bengaluru. The species is named after type locality.

Trinoridia saraikela Viraktamath and Meshram 2019

Trinoridia timlivana Viraktamath and Meshram 2019

Trinoridia timlivana Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Trinoridia timlivana* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Uttarakhand, Dehradun, Timli Forest. The specimen was deposited in the NPC. The species is named after the type locality Timli forest.

Webbolidia andamana Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Webbolidia andamana* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Andaman & Nicobar, South Andaman, Jirkatang, 2.6 m (11°49'53.4''N and 92°39'17.4''E) and one Paratype collected from Andaman, Mt. Harriet, 0.6 m (11°44'N and 92°39'E). The specimens have been deposited in the UASB, Bengaluru. The species is named after the type locality.

Genus
Webbolidia
Nielson, 2015

Webbolidia andamana Viraktamath and Meshram 2019

Zhangolidia weicongi Viraktamath and Meshram. *Zootaxa*, 4653 (1): 001–091, 2019

The species *Zhangolidia weicongi* was described by C.A. Viraktamath and Naresh M. Meshram based on a Holotype collected from Manipur, Senapati, Sijang Mongjang, 1053 m (24°58'N, 94°08'E). The specimen is deposited in the UASB, Bengaluru. The species is named after the Chinese leafhopper worker Dr. Wei Cong.

Genus
Zhangolidia
Nielson, 2015

Zhangolidia weicongi Viraktamath and Meshram 2019

Bambusiphaga unispina Ramya and Meshram. *Zootaxa*, 4658 (1): 197–200, 2019

The species *Bambusiphaga unispina* was described by Ramya. N. and N.M. Meshram based on a Holotype collected from Himachal Pradesh, Palampur (32°10'03''N and 76°54'65''E). The type specimen has been deposited in NPC, Division of Entomology, ICAR-Indian Agricultural Research Institute (IARI), New Delhi. The species name alludes to the presence of spine like process at the mid-lateral part of phallotheca.

Family
DELPHACIDAE

Genus
Bambusiphaga
Huang and Ding, 1979

Bambusiphaga unispina Ramya and Meshram 2019

Mesovelia andamana Jehamalar, Chandra and Polhemus. *Zootaxa*, 4651 (3): 471–496, 2019

The species *Mesovelia andamana* was described by E. E. Jehamalar, K. Chandra and Dan A. Polhemus based on a Holotype collected from Andaman & Nicobar Islands, Mongulton, 27 m (11.59673°N and 92.66133°E) and four Paratypes collected from different localities of Andaman & Nicobar Islands. The type specimens have been deposited in the CEL, ZSIK.

Family
MESOVELIIDAE

Genus
Mesovelia **Mulsant and Rey, 1852**

Mesovelia and amana Jehamalar, Chandra and Polhemus 2019

Mesovelia bispinosa Jehamalar, Chandra and Polhemus. *Zootaxa*, 4651 (3): 471–496, 2019

The species *Mesovelia bispinosa* was described by E. E. Jehamalar, K. Chandra and Dan A. Polhemus based on a Holotype collected from Meghalaya, East Garo Hills District, Ningpachi Village, 335 m, (25.603433°N and 90.75036°E) and two Paratypes collected from different localities of West Jaintia Hills, Meghalaya. The type specimens have been deposited in the CEL ZSIK. The species is named for the presence of two spines on the flexor region of the mid femur.

Mesovelia bispinosa Jehamalar, Chandra and Polhemus 2019

Mesovelia brevia Jehamalar, Chandra and Polhemus 2019

Mesovelia brevia Jehamalar, Chandra and Polhemus. *Zootaxa*, 4651 (3): 471–496, 2019

The species *Mesovelia brevia* was described by E. E. Jehamalar, K. Chandra and Dan A. Polhemus based on a Holotype collected from Tamil Nadu, Kanyakumari District, Parakai Village, 16 m (8.14049°N and 77.45403°E) and four Paratypes collected from different localities of Tamil Nadu and Meghalaya. The type specimens have been deposited in the CEL ZSIK. The spsecies refers to the very short apical part of the male paramere.

Mesovelia dilatata Jehamalar, Chandra and Polhemus 2019

Mesovelia dilatata Jehamalar, Chandra and Polhemus. *Zootaxa*, 4651 (3): 471–496, 2019

The species *Mesovelia dilatata* was described by E. E. Jehamalar, K. Chandra and Dan A. Polhemus based on a Holotype collected from Meghalaya, West Jaintia Hills District, Demthring Village, 1361m (25.43447°N and 92.18622°E) and fourteen Paratypes collected from different localities of Meghalaya and Tamil Nadu. The type specimens have been deposited in the CEL ZSIK. The species name refers to the dilated basal part of the male paramere.

Mesovelia isiasi Jehamalar, Chandra and Polhemus 2019

Mesovelia isiasi Jehamalar, Chandra and Polhemus. *Zootaxa*, 4651 (3): 471–496, 2019

The species *Mesovelia isiasi* was described by E. E. Jehamalar, K. Chandra and Dan A. Polhemus based on a Holotype collected from Meghalaya, West Jaintia Hills District, Laskein Village, 1232 m (25.51083°N and 92.40692°E) and thirty-six Paratypes collected from different localities of Meghalaya. The type specimens have been deposited in the CEL ZSIK. The species is named after Dr. S. Isias, Principal, St. Alphonsa College of Arts and Science, Karungal, Tamil Nadu, for his support in arranging the field trips in Meghalaya.

Mesovelia occulta Jehamalar, Chandra and Polhemus 2019

Mesovelia occulta Jehamalar, Chandra and Polhemus. *Zootaxa*, 4651 (3): 471–496, 2019

The species *Mesovelia occulta was* described by E. E. Jehamalar, K. Chandra and Dan A. Polhemus based on a Holotype collected from Tamil Nadu, Kanyakumari District, Chithiramcode Village, 66 m (8.31289°N and 77.32061°E) and twenty two Paratypes collected from different localities of Tamil Nadu. The type specimens have been deposited in the CEL ZSIK. The species name refers to the hidden spiniform setal tuft.

Mesovelia tenuia Jehamalar, Chandra and Polhemus 2019

Mesovelia tenuia Jehamalar, Chandra and Polhemus. *Zootaxa*, 4651 (3): 471–496, 2019

The species *Mesovelia tenuia* was described by by E. E. Jehamalar, K. Chandra and Dan A. Polhemus based on a Holotype and three Paratypes collected from Tamil Nadu, Kanyakumari District, Pallenvilai Village, 30m (8.30097°N and 77.21519°E). The type specimens have been deposited in the CEL ZSIK.

Mystilus manipurensis Yeshwanth and Cherot. *Zootaxa*, 4711 (1): 157–174, 2019

The species *Mystilus manipurensis* was described by H.M. Yeshwanth and F. Cherot based on a Holotype and three Paratypes collected from Manipur, Churachandpur, Ngaloi falls (24° 19'53.7'' N and 93°38'47.7''). The type specimens have been deposited in UASB, Bangalore. The species is named after the type locality, Manipur.

Family
MIRIDAE

Genus
***Mystilus* Distant, 1904**

Mystilus manipurensis Yeshwanth and Cherot 2019

Halys mudigerensis Salini. *Zootaxa*, 4586 (2): 351–375, 2019

The species *Halys mudigerensis* was described by S. Salini based on a Holotype and one Paratype collected from Karnataka, Mudigere, Students collection. The type specimens have been deposited in UASB, Bangalore. The species name refers to the type locality.

Family
PENTATOMIDAE

Genus
***Halys* Fabricius, 1803**

Halys mudigerensis Salini 2019

Bagauda atypicus Ghate, Boyane and Joshi. *Zootaxa*, 4652 (3): 591–600, 2019

The species *Bagauda atypicus* was described by H. V. Ghate, S. S. Boyane and N. U. Joshi based on a Holotype and five Paratypes collected from Maharashtra, Pune District, Junnar caves (19°12'11"N and 73°52'27"E). The type specimens are deposited in Modern College of Arts, Science and Commerce, Pune. The species is named atypicus because it is an atypical member of the tribe Leistarchini and the genus Bagauda.

Family
REDUVIIDAE

Genus
***Bagauda* Bergroth, 1903**

Bagauda atypicus Ghate, Boyane and Joshi 2019

3.12. Hymenoptera

Phylum
ARTHROPODA

Class
INSECTA

Order
HYMENOPTERA

Family
APIDAE

Genus
***Epeolus* Latreille, 1802**

Epeolus ladakhensis Bogusch. *Oriental Insects*, DOI: 10.1080/00305316.2019.1621227, 2019

The species *Epeolus ladakhensis* was described by Petr Bogusch based on a Holotype and one Paratype collected from Kashmir, Ladakh, 3720 m. The type specimens have been deposited in the collections of Oberosterreichisches Landesmuseum, Linz, Austria. The species is named after the type locality.

Epeolus ladakhensis Bogusch 2019

Genus
***Tetragonula* Moure, 1961**

Tetragonula (Flavotetragonula) calophyllae Shanas and Faseeh. *ENTOMON*, 44(1): 33-48, 2019

The subgenus *Flavotetragonula* and the species *Tetragonula (Flavotetragonula) calophyllae* were described by S. Shanas and P. Faseeh based on a Holotype collected from Kerala, Kumbazha, and twenty one Paratypes collected from different localities of Kerala. The type specimens have been deposited in the collections of the Department of Agricultural Entomology, Kerala Agricultural University, Thiruvananthapuram. The subgeneric name is derived from *flavus* in Latin for yellow and the species is named after the generic name of the endangered tree *Calophyllum inophyllum*, on which the first feral colony was observed.

Tetragonula (Tetragonula) perlucipinnae Faseeh and Shanas *ENTOMON*, 44(1): 33-48, 2019

The species *Tetragonula (Tetragonula) perlucipinnae* was described by P. Faseeh and S. Shanas based on a Holotype and eight Paratypes collected from Kerala, Ayarote. The type specimens have been deposited in the collections of the Department of Agricultural Entomology, Kerala Agricultural University, Thiruvananthapuram. The specific epithet is based on the Latin words *perlucidulus* and *pinna*, alludes to the transparent wing.

Tetragonula (Tetragonula) travancorica Shanas and Faseeh *ENTOMON*, 44(1): 33-48, 2019

The species *Tetragonula (Tetragonula) travancorica* was described by S. Shanas and P. Faseeh based on a Holotype collected from Kerala, Kollam, Ambanad Estate and sixty seven Paratypes collected from different lcoalities of Kerala, Karnataka and Tamil Nadu. The type specimens have been deposited in the collections of Department of Agricultural Entomology, Kerala Agricultural University, Thiruvananthapuram.The species is named after the erstwhile Kingdom of Travancore.

Aulacus sahyadriensis Kumar, Smith and Binoy. *Zootaxa* 4686 (2): 289–293, 2019

The species *Aulacus sahyadriensis* was described by P. Girish Kumar, David R. Smith and C. Binoy based on a Holotype collected from Kerala, Idukki district, Elappara, 1030 m (9°38'18.1"N and 76°58'56.8"E). The type specimen has been deposited in the NZC of the ZSI-WGRC. The species name is derived from "Sahyadri", the vernacular name for the Western Ghats mountain ranges.

Aulacus sahyadriensis Kumar, Smith and Binoy 2019

Family
AULACIDAE

Genus
***Aulacus* Jurine, 1807**

Centistidea acrocercopsi Ghramh, Ahmad and Pandey. *ZooKeys*, 889: 37–47, 2019

The species *Centistidea acrocercopsi* was described by Hamed A. Ghramh, Zubair Ahmad and Kavita Pandey based on a Holotype and one Paratype collected from Uttar Pradesh, Etah. The type specimens have been deposited in Insect Collection of the Department of Zoology, Aligarh Muslim University, Aligarh (ZDAMU). The new species is named after its host insect.

Family
BRACONIDAE

Genus
***Centistidea* Rohwer, 1914**

Centistidea cosmopteryxi Ghramh, Ahmad and Pandey. *ZooKeys*, 889: 37–47, 2019

The species *Centistidea cosmopteryxi* was described by Hamed A. Ghramh, Zubair Ahmad and Kavita Pandey based on a Holotype and one Paratype collected from Uttar Pradesh, Etah. The type specimens have been deposited in Insect Collection of the ZDAMU India. The new species is named after its host insect.

Centistidea cosmopteryxi Ghramh, Ahmad and Pandey 2019

Genus
Dolichogenidea
Viereck, 1911

Dolichogenidea cordiae Ahmad, Ghramh, Pandey and Khan. *Biologia*, DOI: 10.2478/s11756-019-00351-7, 2019

The species *Dolichogenidea cordiae* was described by Z. Ahmad, H. A. A. Ghramh, K. Pandey and F. Khan based on a Holotype and ten Paratypes collected from Uttar Pradesh, Etah, 170 m (27.5588°N and 78.6626°E). The host of the species is *Acrocercops lysibathra* (Moth) found on the plant *Cordia latifolia*. The type specimens have been deposited in the Insect Collection of the ZDAMU. The species is named on the generic name of the host plant.

Dolichogenidea syngramma Ahmad, Ghramh, Pandey and Khan. *Biologia*, DOI: 10.2478/s11756-019-00351-7, 2019

The species *Dolichogenidea syngramma* was described by Z. Ahmad, H. A. A. Ghramh, K. Pandey and F. Khan based on a Holotype and nine Paratypes collected from Uttar Pradesh, Bulandshar, 195 m (28.4070°N and 77.8498°E). The host of the species is *Eteoryctis syngramma*. The type specimens have been deposited in the Insect Collection of the ZDAMU. The species is named after the name of the host species.

Genus
Pambolus
Haliday, 1836

Pambolus (Phaenodus) shujai Ahmad, Ghramh and Ansari. *ZooKeys*, 889: 23–35, 2019

The species *Pambolus (Phaenodus) shujai* was described by Z. Ahmad, H. A. A. Ghramh and A. Ansari based on a Holotype and three Paratypes collected from Uttar Pradesh, Etawah. The type specimens have been deposited in the ZDAMU. The species is named after Dr Shujauddin for his valuable contributions to the taxonomy of Indian Braconidae.

Genus
Parachremylus
Granger, 1949

Parachremylus trachysi Ahmad, Ghramh and Ansari. *ZooKeys*, 889: 23–35, 2019

The species *Parachremylus trachysi* was described by Z.Ahmad, H. A. A. Ghramh and A. Ansari based on a Holotype and five Paratypes collected from Uttar Pradesh, Aligarh. The type specimens have been deposited in the Insect Collection section of the ZDAMU. The species name is derived from the generic name of the host insect.

Genus
Philoplitis
Nixon, 1965

Philoplitis keralensis Ranjith, Fernandez-Triana, Veena, Priyadarsanan and Nasser 2019

Philoplitis keralensis Ranjith, Fernandez-Triana, Veena, Priyadarsanan and Nasser. *ZooKeys*, 841: 125–150, 2019

The species *Philoplitis keralensis* was described by A.P. Ranjith, J. Fernandez-Triana, T. Veena, D.R. Priyadarsanan and M. Nasser based on a Holotype and one Paratype collected from Kerala, Kozhikode, Janakikkadu. The type specimens have been deposited in the Department of Zoology, University of Calicut, Kerala. The species is named after the type locality.

Philoplitis trifoveatus Ranjith, Fernandez-Triana, Veena, Priyadarsanan and Nasser. *ZooKeys*, 841: 125–150, 2019

The species *Philoplitis trifoveatus* was described by A.P. Ranjith, J. Fernandez-Triana, T. Veena, D.R. Priyadarsanan and M. Nasser based on a Holotype collected from Karnataka. The type specimen has been deposited in the Department of Zoology, University of Calicut, Kerala. The species name alludes to the distinctive three pits present in the occiput.

Philoplitis trifoveatus Ranjith, Fernandez-Triana, Veena, Priyadarsanan and Nasser 2019

Genus
Rhogadopsis
Brethes, 1913

Rhogadopsis gratia Gupta, Achterberg, Ballal, Maczey, Djeddour, Bhutia and Rajeshwari 2019

Rhogadopsis gratia Gupta, Achterberg, Ballal, Maczey, Djeddour, Bhutia and Rajeshwari. *Zootaxa*, 4550 (2): 268–276, 2019

The species *Rhogadopsis gratia* was described by A. Gupta, C. V. Achterberg, C. R. Ballal, N. Maczey, D. Djeddour, S. G. Bhutia and S. K. Rajeshwari based on a Holotype collected from Sikkim, Kanchenjunga National Park and one Paratype collected from Sikkim, Damthang. The type specimens have been deposited in ICAR-NBAIR, Bengaluru. The species name is derived from Latin word “gratia” meaning beauty referring to the beauty of the parasitoid.

Rhogadopsis macrusa Gupta, Achterberg, Ballal, Maczey, Djeddour, Bhutia and Rajeshwari. *Zootaxa*, 4550 (2): 268–276, 2019

The species *Rhogadopsis macrusa* was described by A. Gupta, C. V. Achterberg, C. R. Ballal, N. Maczey, D. Djeddour, S. G. Bhutia and S. K. Rajeshwari based on a Holotype and one Paratype collected from Sikkim, Kanchenjunga National Park. The type specimens have been deposited in ICAR-NBAIR, Bengaluru. The species name is derived from Greek word “makros” meaning long referring to the long ovipositor.

Rhogadopsis macrusa Gupta, Achterberg, Ballal, Maczey, Djeddour, Bhutia and Rajeshwari 2019

Undabracon binduae Ranjith, Belokobylskij and Nasser. *Zootaxa*, 4664 (1): 142–150, 2019

The species *Undabracon binduae* was described by A.P. Ranjith, Sergey A. Belokobylskij and M. Nasser based on a Holotype collected from Kerala, Malappuram, Calicut University Botanical Garden. The type specimen has been deposited in the Department of Zoology, University of Calicut. The species named is after the friend of the first author, Mrs. Bindu, P.U.

Genus
Undabracon
Quicke, 1986

Undabracon binduae Ranjith, Belokobylskij and Nasser 2019

Family
CHALCIDIDAE

Genus
Lasiochalcidia
Masi, 1929

Lasiochalcidia narendrani Binoy, Sureshan, Santosh and Nasser 2019

Lasiochalcidia narendrani Binoy, Sureshan, Santosh and Nasser. *Halteres*,10: 80-85, 2019

The species *Lasiochalcidia narendrani* was described by C. Binoy, P.M. Sureshsan S. Santhosh and M. Nasser based on a Holotype collected from Kerala, Jafferkhan colony, Kozhikode district (11°15'50.1"N and 75°11.5"E), six Paratypes collected from Edakkara abandoned vegetable field, Kozhikode district (11°22'33.5"N and 75°47'02. 8"E) and one Paratype collected from D. B. College, Shasthamkotta, Kollam district (9°02'25.8"N and 76°38'04.1"E). The type specimens have been deposited in the NZC of ZSI-WGRC, Kozhikode. The species is named in honour of Late Dr. (Prof.) T.C. Narendran for his great contributions to the knowledge of Oriental Hymenoptera.

Family
CHRYSIDIDAE

Genus
Hedychrum
Latreille, 1806

Hedychrum crassitarse Rosa 2019

Hedychrum crassitarse Rosa. *Far Eastern Entomologist*, 385: 1-11, 2019

The species *Hedychrum crassitarse* was described by P. Rosa based on a Holotype collected from Tamil Nadu, Kumili. The type specimen has been deposited in the Museo di Storia Naturale, Milan, Italy. The species name is derived from the Latin word crassus and tarsus meaning broad tarsomeres.

Dicranorhina dinesani Mawadda, Girish Kumar & Suresha n . *Zootaxa*, 4629 (1): 109–121, 2019

The species *Dicranorhina dinesani* was described by N.V.A. Mawadda, P. Girish Kumar and P.M. Sureshan based on a Holotype collected from Kerala, Wayanad district, Vellamunda (11.7341°N and 75.9376°E) and three Paratypes collected from different localities of Kerala. The type specimens have been deposited in the NZC ZSI-WGRC.The species is named after Mr. K. A. Dinesan, who collected the Holotype.

Family
CRABRONIDAE

Genus
Dicranorhina
Shuckard, 1840

Dicranorhina dinesani Mawadda, Girish Kumar &Sureshan 2019

Dicranorhina georgei Mawadda, Girish Kumar &Sureshan 2019

Dicranorhina georgei Mawadda, Girish Kumar & Sureshan. *Zootaxa*, 4629 (1): 109–121, 2019

The species *Dicranorhina georgei* was described by N.V.A. Mawadda, P. Girish Kumar and P.M. Sureshan based on a Holotype collected from Kerala, Kozhikode district, Kakkadampoyil (11.3362°N and 76.1102°E). The type specimens have been deposited in the NZC ZSI-WGRC.The species is named after Dr. George Mathew, who collected the holotype.

Dicranorhina sreeramani Mawadda, Girish Kumar and Sureshan, *Zootaxa*, 4629 (1): 109–121, 2019

The species *Dicranorhina sreeramani* was described by N.V.A. Mawadda, P. Girish Kumar and P.M. Sureshan based on a Holotype collected from Kerala, Wayanad district, Moolankavu paddy field (11.6729°N and 76.2892°E). The type specimens have been deposited in the NZC ZSI-WGRC. The species is named after Mr. S. Sreeraman, who collected the Holotype.

Dicranorhina sreeramani Mawadda, Girish Kumar and Sureshan 2019

Family
ICHNEUMONIDAE

Genus
Clistopyga
Gravenhorst, 1829

Clistopyga ghatensis Manjusha, Sudheer and Ghosh. *Records of Zoological Survey of India*, 119 (1): 60-63, 2019

The species *Clistopyga ghatensis* was described by B.M. Manjusha, K. Sudheer and S.M. Ghosh based on a Holotype collected from Tamil Nadu, (8°56'47"N and 77°39'02"E). The type specimen has been deposited at Prof. T.C. Narendran Biodiversity Research Laboratory. The species is named after Western Ghats, its type locality.

Clistopyga ghatensis Manjusha, Sudheer and Ghosh 2019

Genus
Polysphincta
Gravenhorst, 1829

Polysphincta idukkiensis Manjusha, Sudheer and Ghosh 2019

Polysphincta idukkiensis Manjusha, Sudheer and Ghosh. *HALTERES*, 10: 96-99, 2019 DOI: 10.5281/zenodo.3596066, 2019

The species *Polysphincta idukkiensis* was described by B. M. Manjusha, K. Sudheer and S. M. Ghosh based on a Holotype collected from Kerala, Idukki, Pambadumshola (10°07'34"N and 77°14'58"E). The type specimen has been deposited in the Prof. T.C. Narendran Biodiversity Research Laboratory, University of Calicut, Kozhikode. The species is named after the type locality, Idukki.

Family
MELITTIDAE

Genus
Melitta **Kirby, 1802**

Melitta (Melitta) indica Saini, Chandra and Kumar 2019

Melitta (Melitta) indica Saini, Chandra and Kumar. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1624221, 2019

The species *Melitta (Melitta) indica* was described by Jagdish Saini, Kailash Chandra and Hridesh Kumar based on a Holotype collected from Uttarakhand, Chamoli district, Ghanghria (30.701N and 79.593E), four Paratypes collected from Valley of Flower National Park (30.720N and 79.594E) and four Paratypes collected from Ghanghria (30.701N and 79.593E). The type specimens have been deposited in the NZC, ZSIK. The species is named after India.

Family
MUTILLIDAE

Genus
Kudakrumia
Krombein, 1979

Kudakrumia rangnekari Kumar, Lelej, Das, Raveendran and Loktionov 2019

Kudakrumia rangnekari Kumar, Lelej, Das, Raveendran and Loktionov. *Zootaxa*, 4612 (2): 260-266, 2019

The species *Kudakrumia rangnekari* was described by P.Girish Kumar, A. S. Lelej, D. Das, H. K.P. Raveendran and V. M. Loktionov based on a Holotype collected from Goa, Kotigao Wildlife Sanctuary, 108 m (14°58'36"N and 74°12'22"E) and one Paratype collected from Kerala, Kasaragod district, Ranipuram Hill, 901 m (12°24'56"N and 75°21'11"E). The type specimens have been deposited in the NZC ZSI-WGRC. The species is named after Mr. Parag Rangnekar butterfly and dragonfly specialist from Goa.

Family
MYMARIDAE

Genus
***Anaphes* Haliday, 1833**

Anaphes (Anaphes) kailashchandrai Anwar, Zeya and Huber. *Zootaxa*, 4623 (1): 026-040, 2019

The species *Anaphes (Anaphes) kailashchandrai* was described by P. T. Anwar, S. B. Zeya and John T. Huber based on a Holotype collected from Himachal Pradesh, Shimla and three Paratypes collected from different localities of Himachal Pradesh, Mizoram and Indonesia. The type specimens have been deposited in the Insect Collections ZDAMU Uttar Pradesh and CNC. The species is named after Dr. Kailash Chandra, Director, ZSI.

Anaphes triapitsyni Anwar, Zeya and Huber 2019

Anaphes triapitsyni Anwar, Zeya and Huber. *Zootaxa*, 4623 (1): 026-040, 2019

The species *Anaphes triapitsyni* was described by P. T. Anwar, S. B. Zeya and John T. Huber based on a Holotype collected from Odisha, Jharsuguda, Sarbahal and four Paratypes collected from different localities of Kerala and Odisha. The type specimens have been deposited in Insect Collections ZDAMU Uttar Pradesh and NBAIR, Bengaluru, Karnataka. The species is named after Serguei V. Triapitsyn.

Genus
Cosmocomoidea
Howard, 1908

Cosmocomoidea montanus Athithya, Manickavasagam and Palanivel 2019

Cosmocomoidea montanus Athithya, Manickavasagam and Palanivel. *Oriental Insects*, DOI: 10.1080/00305316.2019.1587535, 2019

The species *Cosmocomoidea montanus* was described by A. Athithya, S. Manickavasagam and S. Palanivel based on a Holotype and one Paratype collected from Tamil Nadu, Salem, Yercaud, forest ecosystem (11°49'N and 078°10'E). The type specimens are deposited in Entomology Department, Annamalai University, Chidambaram, Tamil Nadu. The species name is in reference to the hilly terrain of the type locality, Yercaud.

Genus
Dicopus Enock, 1909

Dicopus gunathilagaraji Sankararaman, Manickavasagam and Palanivel. *Oriental Insects*, DOI: 10.1080/00305316.2019.1691670, 2019

The species *Dicopus gunathilagaraji* was described by H. Sankararaman, S. Manickavasagam and S. Palanivel based on a Holotype collected from Tamil Nadu, Salem, Edappadi (11°35'N and 77°50'E) and two Paratypes collected from Tamil Nadu, Salem, Yercaud hills (11°48'N and 78°13'E). The type specimens have been deposited in the Entomology Department, Annamalai University, Chidambaram, Tamil Nadu. The species name is derived from the name of the first two senior authors' teacher, Prof. K. Gunathilagaraj.

Dicopus gunathilagaraji Sankararaman, Manickavasagam and Palanivel 2019

Family
PLATYGASTRIDAE

Genus
Isolia Forster, 1878

Isolia bandoola Kamalanathan, Buhl and Mohanraj 2019

Isolia bandoola Kamalanathan, Buhl and Mohanraj. *Zootaxa*, 4565 (4): 451-474, 2019

The species *Isolia bandoola* was described by V. Kamalanathan, P. N. Buhl and P. Mohanraj based on a Holotype collected from Arunachal Pradesh, Pasighat, College of Horticulture and Forestry, 173 m (28°04'28"N and 95°19'28"E). The type specimen has been deposited in the NBAIR, Bengaluru. The species is named after Bandoola, the unusually large black elephant used by J.H. Williams during the Second World War.

Isolia bhima Kamalanathan, Buhl and Mohanraj 2019

Isolia bhima Kamalanathan, Buhl and Mohanraj. *Zootaxa*, 4565 (4): 451-474, 2019

The species *Isolia bhima* was described by V. Kamalanathan, P. N. Buhl and P. Mohanraj based on a Holotype collected from Odisha, Orissa University of Agricultural Technology 45 m (20°15'52"N and 85°48'50"E) and six Paratypes collected from different localities of Tamil Nadu and Himachal Pradesh. The type specimens have been deposited in the NBAIR, Bengaluru. The species is named after 'Bhima' the giant among the Pandava brothers in Mahabharata.

Genus
Platygaster Latreille

Platygaster harpagoceras Popovici & Veenakumari. *Journal of Hymenoptera Research*, 68: 19–28, 2019

The species *Platygaster harpagoceras* was described by O.A. Popovici and K. Veenakumari based on a Holotype and two Paratypes collected from Orissa Jajpur-Keonjahr Dists., Daitari and one Paratype from Tamil Nadu, Kanyakumari, Manalodai (11.25220°N and 78.69680°E). The type specimens have been deposited in the Hungarian BMNH and NBAIR, Bengaluru, India. The species name refers to the characteristic antenna.

Platygaster harpagoceras Popovici & Veenakumari 2019

Family
PTEROMALIDAE

Genus
***Metacolus* Forster, 1856**

Metacolus parasinicus Khanday, Sureshan, Buhroo, Ranjith and Tselikh 2019

Metacolus parasinicus Khanday, Sureshan, Buhroo, Ranjith and Tselikh. *Journal of Asia-Pacific Biodiversity*, 12: 262-272, 2019

The species *Metacolus parasinicus* was described by A. L. Khanday, P. M. Sureshan, A. A. Buhroo, A. P. Rajnith and E. Tselikh based on a Holotype and one Paratype collected from Jammu and Kashmir, Anantnag district, Nowpora village, 1804 m (33°61.078'N and 075°18.700'E). The type specimens have been deposited in the NZC ZSI-WGRC, Kozhikode, Kerala. The species is named *parasinicus* owing to its close resemblance to the species *Metacolus sinicus* Yang.

Neapterolelaps paraeneiceps Binoy and Sureshan. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1681326, 2019

The species *Neapterolelaps paraeneiceps* was described by C. Binoy and P. M. Sureshan based on a Holotype collected from Kerala, Idukki district, Elappara, 1030 m (9°38'18.1''N and 76°58'56.8''E). The type specimen has been deposited in the NZC ZSI-WGRC, Kozhikode. The species is named after its closely related species *N. aeneiceps*.

Genus
***Neapterolelaps* Girault, 1913**

Neapterolelaps paraeneiceps Binoy and Sureshan 2019

Genus
***Sycoscapter* Saunders, 1883**

Sycoscapter benghalensis Pramanik and Dey 2019

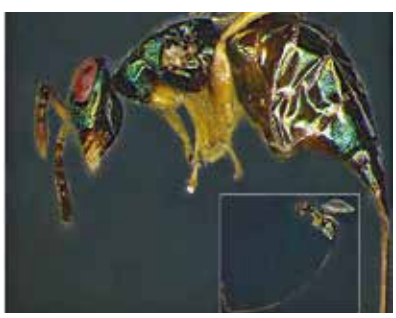
Sycoscapter benghalensis Pramanik and Dey. *Taiwania*, 64 (2): 139-148, 2019

The species *Sycoscapter benghalensis* was described by A. Pramanik and D. Dey based on a Holotype collected from New Delhi, (28°37'56.95"N and 77°9'41.224"E) and forty Paratypes collected from different localities of New Delhi and West Bengal. The host of the species is *Ficus benghalensis*. The type specimens have been deposited in NPC, New Delhi. The species is named after its host.

Sycoscapter benjaminae Pramanik and Dey. *Taiwania*, 64 (2): 139-148, 2019

The species *Sycoscapter benjaminae* was described by A. Pramanik and D. Dey based on a Holotype and twelve Paratypes collected from Arunachal Pradesh, Pasighat (28°05'37.8"N and 95°18'01.8"E). The host of the species is *Ficus benjamina*. The type specimens have been deposited in NPC, New Delhi. The species is named after its fig host.

Sycoscapter benjaminae Pramanik and Dey 2019



Genus
Thaumasura
Westwood, 1868

Thaumasura indica
Binoy and Sureshan 2019

Thaumasura indica Binoy and Sureshan. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1681326, 2019

The species *Thaumasura indica* was described by C. Binoy and P. M. Sureshan based on a Holotype and one Paratype collected from Kerala, Idukki district, Elappara (9°38'18.1''N and 76°58'56.8''E). The type specimens have been deposited in the NZC ZSI-WGRC, Kozhikode. The species name is derived from India.

Family
SCELIONIDAE

Genus
Neoceratobaeus
Rajmohana 2014

Neoceratobaeus dwitiyus Sunita and Rajmohana 2019

Neoceratobaeus dwitiyus Sunita and Rajmohana. *ENTOMON*, 44(4): 269-274, 2019

The species *Neoceratobaeus dwitiyus* was described by Sunita Patra and Rajmohana Kelloth based on a Holotype collected from West Bengal, Sagar Island, Phulbari (21°51'43.94"N and 088°07'46.32"E) and a Paratype collected from Gangasagar Island, Bharat Seva Ashram Campus (21°38'22.05"N and 088°04'48.32"E). The type specimens have been deposited in NZC, ZSIK. The species is named 'dwitiyus', this being the second species under the genus ('Dwitiya' in Sanskrit = second).

Genus
Paratelenomus **Dodd**

Paratelenomus anu Rajmohana, Sachin, Talamas, Shamyasree, Jalali and Rakshit. *Journal of Hymenoptera Research*, 73: 103-123, 2019 DOI: 10.3897/jhr.73.34262, 2019

The species *Paratelenomus anu* was described by K. Rajmohana, J. P. Sachin, E. J. Talamas, M. S. Shamyasree, S. K. Jalali and O. Rakshit based on a Holotype and nineteen Paratypes collected from Kerala, Malapparamba, near Providence College. The type specimens have been deposited in NZC, ZSIK, Calicut and (CNC). The species name is derived from Sanskrit word 'anu' which is equivalent for the smallest unit of matter and refers to the small size of the species.

Paratelenomus anu Rajmohana, Sachin, Talamas, Shamyasree, Jalali and Rakshit 2019

Genus
Phanuromyia
Dodd, 1914

Phanuromyia flaviabdominalis Veenakumari and Prashanth. *Zoosystema*, 41 (18): 341-358, 2019.

The species *Phanuromyia flaviabdominalis* was described by K. Veenakumari and M. Prashanth based on a Holotype collected from Karnataka, Bengaluru, Jarakabande Kaval, 821 m (13°05'41''N and 77°32'35''E) and sixty three Paratypes collected from different localities of Karnataka, Tamil Nadu and Kerala. The type specimens have been deposited in the ICAR-NBAIR, Bengaluru. This species name refers to its yellow metasoma.

Phanuromyia flaviabdominalis Veenakumari and Prashanth 2019

Phanuromyia levigatus Veenakumari and Prashanth. *Zoosystema*, 41 (18): 341-358, 2019

The species *Phanuromyia levigatus* was described by K. Veenakumari and M. Prashanth based on a Holotype collected from Karnataka, Bengaluru, Hebbal, NBAIR, 927 m (13°02'36''N and 77°58'42''E) and two Paratypes collected from different localities of Karnataka. The type specimens have been deposited in the ICAR-NBAIR, Bengaluru. The species is named levigatus referring to the smooth metasoma.

Phanuromyia levigatus Veenakumari and Prashanth 2019

Phanuromyia reticulata Veenakumari and Prashanth. *Zoosystema*, 41 (18): 341-358, 2019

The species *Phanuromyia reticulata* was described by K. Veenakumari and M. Prashanth based on a Holotype collected from Karnataka, Bengaluru, Hebbal, 927 m (13°02'08''N and 77°58'42''E) and fourteen Paratypes collected from different localities of Karnataka and Tamil Nadu. The type specimens have been deposited in the ICAR-NBAIR, Bengaluru. The species is named reticulata highlighting the reticulate sculpture of the mesoscutellum.

Phanuromyia reticulata Veenakumari and Prashanth 2019

Phanuromyia rufocoxalis Veenakumari and Prashanth. *Zoosystema*, 41 (18): 341-358, 2019

The species *Phanuromyia rufocoxalis* was described by K. Veenakumari and M. Prashanth based on a Holotype and two Paratypes collected from Nagaland, Medziphema, 457 m (25°45'23''N and 93°52'05''E). The type specimens have been deposited in the ICAR-NBAIR, Bengaluru. The species is named rufocoxalis referring to the brown fore coxa.

Phanuromyia rufocoxalis Veenakumari and Prashanth 2019

Phanuromyia shashikalae Veenakumari and Prashanth. *Zoosystema*, 41 (18): 341-358, 2019

The species *Phanuromyia shashikalae* was described by K. Veenakumari and M. Prashanth based on a Holotype collected from Karnataka, Chikkaballapur, Nandi Hills, 1448 m (13°37'02''N and 77°41'00''E). The type specimens have been deposited in the ICAR-NBAIR, Bengaluru. The species is named after B. Shashikala who assisted the author in laboratory.

Phanuromyia shashikalae Veenakumari and Prashanth 2019

Phanuromyia tamaris Veenakumari and Prashanth. *Zoosystema*, 41 (18): 341-358, 2019

The species *Phanuromyia tamaris* was described by K. Veenakumari and M. Prashanth based on a Holotype and thirty one Paratypes collected from Andaman Islands, South Andaman, 56 m (11°36'41''N and 92°42'56''E). The type specimens have been deposited in the ICAR-NBAIR, Bengaluru. The species name derived from Kannada word 'tamara' which means copper referring to the unique body colour.

Genus
Telenomus
Haliday, 1833

Telenomus ekadanta Veenakumari and Prashanth 2019

Telenomus ekadanta Veenakumari and Prashanth. *Zoosystema*, 41 (18): 341-358, 2019

The species *Telenomus ekadanta* was described by K. Veenakumari and M. Prashanth based on a Holotype collected from Karnataka, Mandya, Madduru, 646 m (12°58'41''N and 77°04'34''E) and forty six Paratypes collected from different localities of Madhya Pradesh, Karnataka, Tamil Nadu, Goa, Odisha and Rajasthan. The type specimens have been deposited in the ICAR-NBAIR, Bengaluru. The species is named *ekadanta* after the Hindu God Lord Ganesha.

Telenomus elegans Veenakumari and Prashanth. *Zoosystema*, 41 (18): 341-358, 2019

The species *Telenomus elegans* was described by K. Veenakumari and M. Prashanth based on a Holotype collected from Tamil Nadu, Lower Pulney Hills, Thadiyankudisai, Horticulture Research Station, 990 m (10°17'58''N, 77°42'42''E) and five Paratypes collected from different localities of Karanataka. The type specimens have been deposited in the ICAR-NBAIR, Bengaluru. The species is named *elegans* because of the graceful nature.

Genus
Tiphia
Fabricius, 1775

Tiphia kashmirensis Hanima, Kumar, Sureshan and Sheikh. *Journal of Insect Biodiversity and Systematics*, 05 (2): 127-141, 2019

The species *Tiphia kashmirensis* was described by R. K.P. Hanima, P. Girish Kumar, P. M. Sureshan and A. H. Sheikh based on a Holotype and one Paratype collected from Kashmir, Srinagar district, Shalimar garden (34°08'56.40"N and 74°52'22.80"E) and three Paratypes collected from Pulwama (33°52'18.62"N and 74°53'57.75"E). The type specimens have been deposited in ZSI-WGRC. The species name refers to the type locality.

Tiphia kashmirensis Hanima, Kumar, Sureshan and Sheikh 2019

Family
TIPHIIDAE

Genus
Methocha
Latreille, 1804

Methocha keralaensis Hanima, Kumar and Sureshan 2019

Methocha keralaensis Hanima, Kumar and Sureshan. *Linzer Biologische Beiträge*, 51 (1): 63-67, 2019

The species *Methocha keralaensis* was described by R. K.P. Hanima, P. Girish Kumar and P. M. Sureshan based on a Holotype collected from Kerala, Kozhikode district, Kakkattil, 11 m. The type specimen has been deposited in ZSI-WGRC. The species name refers to the type locality.

Family
VESPIDAE

Genus
Knemodynerus
Bluthgen (1940)

Knemodynerus gusenleitneri Kumar, Carpenter and Schwarz. *Linzer Biologische Beitrage*, 51 (2) 949-957, 2019

The species *Knemodynerus gusenleitneri* was described by P. Girish Kumar, J.M. Carpenter and M. Schwarz based on a Holotype collected from Kerala, Kozhikode district, Zoological Survey of India Campus. The type specimen has been deposited in the NZC of ZSI-WGRC. The species is named after Dr. Josef Gusenleitner, Linz, Austria for his life time contribution to the taxonomy of family Vespidae.

Knemodynerus gusenleitneri Kumar, Carpenter and Schwarz 2019

Sub Species

Genus
Xanthopimpla
Saussure (1892)

Xanthopimpla elegans kadnurensis Manjusha, Sudheer and Ghosh. *ENTOMON*, 43 (3): 189-214, 2018

The subspecies *Xanthopimpla elegans kadnurensis* was described by B. M. Manjusha, K. Sudheer and S. M. Ghosh based on a Holotype collected from Karnataka, Coorg, Kadnur (12°21'97''N and 75°47'93''E). The type specimen has been deposited in Prof. T. C. Narendran Biodiversity Research Laboratory. The subspecies is named after the type locality, Kadnur.

Xanthopimpla elegans kadnurensis Manjusha, Sudheer and Ghosh, 2018

Xanthopimpla elegans priyadarsanani Manjusha, Sudheer and Ghosh. *ENTOMON*, 43 (3): 189-214, 2018

The subspecies *Xanthopimpla elegans priyadarsanani* was described by B. M. Manjusha, K. Sudheer and S. M. Ghosh based on a Holotype collected from Karnataka, Coorg, Kadnur (12°21'97''N and 75°47'93''E). The type specimen has been deposited in Prof. T. C. Narendran Biodiversity Research Laboratory. The subspecies is named after the collector of the specimen, Dr. Priyadarsanan.

Xanthopimpla elegans priyadarsanani Manjusha, Sudheer and Ghosh, 2018

Xanthopimpla nigritarsis wayanadensis Manjusha, Sudheer and Ghosh. *ENTOMON*, 43 (3): 189-214, 2018

The subspecies *Xanthopimpla nigritarsis wayanadensis* was described by B. M. Manjusha, K. Sudheer and S. M. Ghosh based on a Holotype collected from Kerala, Wayanad, Mananthawady (11°96'72''N and 75°98'27''E). The type specimen has been deposited in Prof. T. C. Narendran Biodiversity Research Laboratory. The subspecies is named after the type locality, Wayanad.

Xanthopimpla nigritarsis wayanadensis Manjusha, Sudheer and Ghosh, 2018

3.13. Isoptera

Phylum
ARTHROPODA

Class
INSECTA

Order
BLATTODEA

Family
TERMITIDAE

Genus
Krishnacapritermes
Chhotani, 1997

Krishnacapritermes dineshan Amina, Rajmohana, Dinesh, Asha, Sinu and Mathew 2019

Krishnacapritermes dineshan Amina, Rajmohana, Dinesh, Asha, Sinu and Mathew. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1683091, 2019

The species *Krishnacapritermes dineshan* was described by P. Amina, K. Rajmohana, K.P. Dinesh, G. Asha, P.A. Sinu and J. Mathew based on a Holotype and eighteen Paratypes collected from Kerala, Idukki, Kurunjimala Shola (10.2268N and 77.2692E) and twenty three Paratypes collected from Kerala, Idukki, Uppupara-Periyar Tiger Reserve (9.5262N and 77.2368E). The type specimens have been deposited at the NZC of the ZSI-WGRC. The species is named after the collector, Sri K.A. Dineshan.

Krishnacapritermes manikandan Amina, Rajmohana, Dinesh, Asha, Sinu and Mathew. *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1683091, 2019

The species *Krishnacapritermes manikandan* was described by P. Amina, K. Rajmohana, K.P. Dinesh, G. Asha, P.A. Sinu and J. Mathew based on a Holotype and nine Paratypes collected from Kerala, Idukki, Amar shola-Munnar (10.0565N and 77.0651E). The type specimens have been deposited at the NZC of the ZSI-WGRC. The species is named after the collector, Sri. Manikandan Nair.

Krishnacapritermes manikandan Amina, Rajmohana, Dinesh, Asha, Sinu and Mathew 2019

3.14. Lepidoptera

Phylum
ARTHROPODA

Class
INSECTA

Order
LEPIDOPTERA

Family
COSSIDAE

Genus
***Aholcocerus* Yakovlev, 2006**

Aholcocerus arorai Yakovlev and Singh. *SHILAP Revista de Lepidopterologica*, 47 (187): 501-505, 2019

The species *Aholcocerus arorai* was described by R. V. Yakovlev and N. Singh based on a Holotype collected from Great Nicobar Island, Bankol Camp, Bellabay. The type specimen has been deposited in ZSIK. The species is named after the prominent Indian entomologist, G. S. Arora.

Aholcocerus arorai Yakovlev and Singh 2019

Family
CRAMBIDAE

Genus
***Neadeloides* Klima, 1939**

Neadeloides nubilus Singh, Kirti, Chandra, H. Singh and Ranjan. *Zootaxa*,4664 (2): 285–292, 2019

The species *Neadeloides nubilus* was described by N.Singh, J. S. Kirti, K. Chandra, H. Singh and R. Ranjan based on a Holotype collected from Sikkim, Golitar and two Paratypes collected from West Bengal, Neora Valley National Park, Rishap. The type specimens have been deposited in the NZC ZSIK. The species name is derived from the Latin word nubilus, meaning dark.

Neadeloides nubilus Singh, Kirti, Chandra, H. Singh and Ranjan 2019

Family
EREBIDAE

Genus
***Barsine* Walker, 1854**

Barsine joshii Volynkin and Cerny. *Ecologica Montenegrina*,21: 70-79, 2019

The species *Barsine joshii* was described by Anton V. Volynkin and Karel Cerny based on a Holotype collected from Assam, West Meghalaya, Garo Hills, Nokrek National Park, 1150m (25°40''N and 91°04''E) and twenty two Paratypes collected from different localities of Assam, Tamil Nadu and Sikkim. The species is named after Dr. Rahul Joshi, an expert in Arctiinae.

Barsine joshii Volynkin and Cerny 2019

Barsine kanchenjunga Volynkin and Cerny. *Zootaxa*, 4668 (4): 543–561, 2019

The species *Barsine kanchenjunga* was described by Anton V. Volynkin and Karel Cerny based on a Holotype collected from Sikkim, Mt. Kanchenjunga Himal, 2600 m (27°30'N and 88°20'E). The species name refers to the type locality.

Barsine kanchenjunga Volynkin and Cerny 2019

Genus
Cyana Walker, 1854

Cyana neopuer Singh, Bhattacharyya and Volynkin. _Zootaxa_, 4603 (2): 365–376, 2019

The species *Cyana neopuer* was described by N. Singh, K. Bhattacharyya and Anton V. Volynkin based on a Holotype collected from West Meghalaya, Umran, 33 km N Shillong, 800 m (26°06'N and 92°23'E) and 60 Paratypes collected from different localities of India, Nepal and Myanmar. The new species is named due to its close resemblance with C. puer.

Cyana neopuer Singh, Bhattacharyya and Volynkin 2019

Genus
Dolgoma Moore, 1878

Dolgoma xanthoma Singh, Kirti, Datta, Joshi and Volynkin. _Zootaxa_, 4683 (1): 033–054, 2019

The species *Dolgoma xanthoma* was described by N. Singh, J. S. Kirti, H. S. Datta, R. Joshi and Anton V. Volynkin based on a Holotype collected from Uttarakhand, Dhanaulti and eight Paratypes collected from different localities of Pakistan. The species name is derived from the genus name Dolgoma and the new species' closest relative *D. xanthocraspis*.

Dolgoma xanthoma Singh, Kirti, Datta, Joshi and Volynkin 2019

Parvuspina tawaghatensis Singh, Kirti & Datta. _Zootaxa_, 4686 (1): 145–150, 2019

The species *Parvuspina tawaghatensis* was described by N. Singh, J. S. Kirti and H. S. Datta based on a Holotype and one Paratype collected from Uttarakhand, Tawaghat and one Paratype collected from Himachal Pradesh. The type specimens have been deposited in the NZC, ZSIK. The species name refers to the type locality, Tawaghat.

Genus
Parvuspina Singh, Kirti & Datta, 2019

Parvuspina tawaghatensis Singh, Kirti & Datta 2019

Genus
Teuloma Volynkin and Singh, 2019

Teuloma falsinebulosa Singh, Kirti, Datta, Joshi and Volynkin 2019

Teuloma falsinebulosa Singh, Kirti, Datta, Joshi and Volynkin. _Zootaxa_ 4683 (1): 033–054, 2019

The species *Teuloma falsinebulosa* was described by N. Singh, J. S. Kirti, H. S. Datta, R. Joshi and Anton V. Volynkin based on a Holotype collected from W. Meghalaya, Khasi Hills and twenty one Paratypes collected from different localities of Karnataka, Gujarat, Arunachal Pradesh, Nagaland, Mizoram, Assam and Jammu and Kashmir. The species name refers to the close similarity of the new species to *Teuloma nebulosa*.

Teuloma microoblitterans Singh, Kirti, Datta, Joshi and Volynkin. _Zootaxa_ 4683 (1): 033–054, 2019

The genus *Teuloma* and the species *Teuloma microoblitterans* were described by N. Singh, J. S. Kirti, H. S. Datta, R. Joshi and Anton V. Volynkin based on a Holotype and one Paratype collected from Mizoram, Serchhipand one Paratype collected from Tamil Nadu, Nilgiris. The genus name is a combination of two generic names Teulisna and Dolgoma and the species name is derived due to its smaller size than *Teuloma oblitterans*.

Teuloma microoblitterans Singh, Kirti, Datta, Joshi and Volynkin 2019

Teuloma neooblitterans Singh, Kirti, Datta, Joshi and Volynkin 2019

Teuloma neooblitterans Singh, Kirti, Datta, Joshi and Volynkin. *Zootaxa* 4683 (1): 033–054, 2019

The species *Teuloma neooblitterans* was described by N. Singh, J. S. Kirti, H. S. Datta, R. Joshi and Anton V. Volynkin based on a Holotype collected from Nagaland, Tuensang and hundred Paratypes collected from different localities of Nagaland, Mizoram, Arunachal Pradesh, Sikkim, Assam, Jammu and Kashmir, Maharashtra, Gujarat, Karnataka and Tamil Nadu. The species name refers to the close similarity of the new species *Teuloma oblitterans*.

Mustilizans zolotuhini Chandra, Singh, Kumar, Ranjan, Caleb, Gayen, Das and Dey. *Zootaxa*, 4624 (2): 183–190, 2019

The species *Mustilizans zolotuhini* was described by K. Chandra, N. Singh, V. Kumar, R. Ranjan, John T.D. Caleb, S. Gayen, M. Das and R. Dey based on a Holotype collected from Arunachal Pradesh, Dibang Valley, Anini (Basam), 1968 m (29.0545°N and 95.7836°E) and one Paratype collected from Anini (Meyhoopey), 2314 m (28.7873°N and 95.9541°E). The type specimens have been deposited in the Lepidoptera Section, NZC, ZSIK. The species is named in honour of Dr. Vadim V. Zolotuhin, a Lepidopterist from Russia.

Family
ENDROMIDAE

Genus
***Mustilizans* Yang, 1995**

Mustilizans zolotuhini Chandra, Singh, Kumar, Ranjan, Caleb, Gayen, Das and Dey 2019

Family:
NOTODONTIDAE

Genus:
***Euhampsonia* Dyar, 1897**

Euhampsonia rubricata Schintlmeister and Irungbam. *Zootaxa*, 4560 (1): 195–200, 2019

The species *Euhampsonia rubricata* was described by A. Schintlmeister and J. S. Irungbam based on a Holotype collected from Manipur, Shirui Hills, 2198 m (25°07'24.81'' N and 94°26'28.80''E) and sixteen Paratypes collected from different localities of Manipur and West Myanmar. The species is named for its reddish-brown external appearance.

Euhampsonia rubricata Schintlmeister and Irungbam 2019

Family
LIMACODIDAE

Genus
***Parasa* Moore, 1859**

Parasa neoherbifera Katewa and Pathania 2019

Parasa neoherbifera Katewa and Pathania. *Records of Zoological Survey of India*, 119 (4): 373-480, 2019

The species *Parasa neoherbifera* was described by A. Katewa and P.C. Pathania based on a Holotype collected from Karnataka, Belgaum district, Londa, 420m and nine Paratypes collected from different localities of Karnataka and Gujarat. The species name is derived as *Parasa neoherbifera* being sibling to *P. Herbifera* Walker.

Family:
PYRALIDAE

Genus:
***Toccolosida* Walker, 1863**

Toccolosida nigraregina Singh, Chandra, Kirti and Ranjan. *Zootaxa*, 4656 (1): 189–192, 2019

The species *Toccolosida nigraregina* was described by N. Singh, K. Chandra, J. S. Kirti and R. Ranjan based on a Holotype and a Paratype collected from Mizoram, Kawrthah, 717 m. The type specimens have been deposited in the Lepidoptera section, NZC, ZSIK.The species name is derived from two Latin words *nigra*, meaning "black", and *regina*, meaning "queen" referring to its beautiful black forewings.

Toccolosida nigraregina Singh, Chandra, Kirti and Ranjan 2019

Sub Species

Phylum
ARTHROPODA

Class
INSECTA

Order
LEPIDOPTERA

Family
EREBIDAE

Genus
***Dolgoma* Moore, 1878**

Dolgoma rectoides arunachala Singh, Kirti, Datta, Joshi and Volynkin. *Zootaxa*, 4683 (1): 033–054, 2019

The subspecies *Dolgoma rectoides arunachala* was described by N. Singh, J. S. Kirti, H. S. Datta, R. Joshi and A. V. Volynkin based on a Holotype and one Paratype collected from Arunachal Pradesh, Ziro. The type specimens have been deposited in NZC, ZSIK. The subspecies is named after the type locality, Arunachal Pradesh.

Dolgoma rectoides arunachala Singh, Kirti, Datta, Joshi and Volynkin, 2019

3.15. Megaloptera

Phylum
ARTHROPODA

Class
INSECTA

Order
MEGALOPTERA

Family
CORYDALIDAE

Genus
Neochauliodes
Van der Weele, 1909

Neochauliodes flinti Liu and Hayashi 2019

Neochauliodes flinti Liu and Hayashi. *Zootaxa*, 4652 (1): 183–188, 2019

The species *Neochauliodes flinti* was described by X. Liu and F. Hayashi based on a Holotype and one Paratype collected from Nagaland, Near Khohima, 1650 m (25°38'N and 94°03'E) and one Paratype collected from Nagaland, Nagahills, Near Dzuleke, 1930 m (25°37'N and 93°56'E). The type specimens have been deposited in the Entomological Museum, China Agricultural University, Beijing, China. The species name is dedicated to Dr. Oliver S. Flint, Jr., expert on the taxonomy of aquatic Neuropterida and Trichoptera who passed away this year.

3.16. Odonata

Phylum
ARTHROPODA

Class
INSECTA

Order
ODONATA

Family
COENAGRIONIDAE

Genus
Ceriagrion
Selys, 1876

Ceriagrion chromothorax Joshi and Sawant. *Journal of Threatened Taxa*, 11 (7): 13875–13885, 2019

The species *Ceriagrion chromothorax* was described by S. Joshi and D. Sawant based on a Holotype and five Paratypes collected from Maharashtra, Sindhudurg District, Devgad, Vimaleshwar, 27 m (16.433°N and 73.395°E). The type specimens have been deposited in the Research Collections, NCBS, Bangalore. The species name '*chromothorax*' is given for the bright yellow (chromo) thoracic coloration.

Ceriagrion chromothorax Joshi and Sawant 2019

Family:
GOMPHIDAE

Genus:
Cyclogomphus
Selys, 1854

Cyclogomphus flavoannulatus Rangnekar, Dharwadkar, Sadasivan and Subramanian. *Zootaxa*, 4656 (3): 515–524, 2019

The species *Cyclogomphus flavoannulatus* was described by P. Rangnekar, O. Dharwadkar, K. Sadasivan and K.A. Subramanian based on a Holotype collected from Goa, South Goa District, Dharbandhora Taluka, Surla Village, 58 m (15.4111N and 74.200E) and one Paratype collected from Kerala, Kollam district, Thenmala town, 140 m (8.9632N and 77.0651E). The type specimens have been deposited in NCBS, Bengaluru. The species name indicates the distinct broad yellow rings in abdominal segments S3–S7.

Cyclogomphus flavoannulatus Rangnekar, Dharwadkar, Sadasivan and Subramanian 2019

Genus:
Gomphidia
Selys, 1854

Gomphidia podhigai Babu and Subramanian 2019

Gomphidia podhigai Babu and Subramanian. *Zootaxa*, 4652 (1): 155–164, 2019

The species *Gomphidia podhigai* was described by R. Babu and K.A. Subramanian based on a Holotype collected from Tamil Nadu, Aghastyamalai biosphere reserve, Kanyakumari District, Kanyakumari Wildlife Sanctuary, Kaliyal Range, Kaliyal Beat, Velachithodu, 480 m (08.53833N and 077.31174E). The type specimen has been deposited ZSI-SRC. The species name is derived from ancient Tamil name for the Aghastyamalai, the type locality.

3.17. Orthoptera

Phylum
ARTHROPODA

Class
INSECTA

Order
ORTHOPTERA

Family
ACRIDIDAE

Genus
***Hilloxya* Kumar & Chandra, 2019**

Hilloxya elongatus Kumar, Chandra and Saini. *Transactions American Entomological Society*, 145:19 – 24, 2019

The species *Hilloxya elongatus* was described by H. Kumar, K. Chandra and J. Saini based on a Holotype collected from Arunachal Pradesh, Changlang, Namdapha N.P., Deban river bed, 354.5m (27.50611N and 96.39611E). The type specimen has been deposited in the NZC ZSIK. The name of the species refers to its elongated male cercus.

Hilloxya elongatus Kumar, Chandra and Saini 2019

Genus:
***Sikkimiana* Uvarov, 1940**

Sikkimiana arunachalensis Chandra, Kumar, Saini and Ghosh. *Journal of Natural History*, 53 (1–2): 89–108, 2019

The species *Sikkimiana arunachalensis* was described by K. Chandra, H. Kumar, J. Saini and D. Ghosh based on a Holotype and five Paratypes collected from Arunachal Pradesh, Changlang, Namdapha National Park, Deban river bed, 345.4 m (27.50611°N and 96.39611°E). The type specimens have been deposited in the NZC of the ZSIK. The species is named after the type locality, Arunachal Pradesh.

Sikkimiana arunachalensis Chandra, Kumar, Saini and Ghosh 2019

Genus:
***Sphingonotus* Fieber, 1852**

Sphingonotus (Sphingonotus) changlangensis Gupta, Chandra and Husemann 2019

Sphingonotus (Sphingonotus) changlangensis Gupta, Chandra and Husemann. *Zootaxa*, 4504 (2): 349–358, 2019

The species *Sphingonotus (Sphingonotus) changlangensis* was described by S.K. Gupta, K. Chandra and M. Husemann based on a Holotype and three Paratypes collected from Arunachal Pradesh, Changlang District, Namdapha National Park, 29 mile, 371m (27°29'5.8"N and 96°27'30.3"E). The type specimens have been deposited in the NZC of the ZSIK. The species name refers to the type locality, Changlang

Family
ECTOBIIDAE

Genus
***Allacta* Saussure and Zehntner, 1895**

Allacta kalakadensis Prabakaran, Senraj and Lucanas. *Halteres*,10: 1-6, 2019

The species *Allacta kalakadensis* was described by S. Prabakaran, M. Senraj and C.C. Lucanas based on a Holotype and four Paratypes collected from Tamil Nadu, Thirukurungudi Range, Valaiyathuodai, 142.2m (08.41078'N and 77.55662'E). The type specimens have been deposited in ZSI-SRC. The species is named after the type locality, Kalakad Mundanthurai Tiger Reserve Area, Tamil Nadu.

Allacta kalakadensis Prabakaran, Senraj and Lucanas 2019

Family
PHALANGOPSIDAE

Genus
***Cacoplistes* Brunner von Wattenwyl, 1873**

Cacoplistes (Laminogryllus) latioribus Meena, Swaminathan and Nagar. *Zootaxa*, 4700 (4): 479–486, 2019

The species *Cacoplistes (Laminogryllus) latioribus* was described by A. K. Meena, R. Swaminathan and R. Nagar based on a Holotype collected from Rajasthan, Rajsamand, 547 m (25°4'12''N and 73°52'48''E). The species name refers to the wider apical part of epiphallus of the male genitalia.

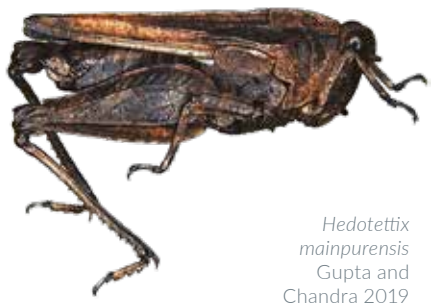
Cacoplistes (Laminogryllus) latioribus Meena, Swaminathan and Nagar 2019

Hedotettix mainpurensis Gupta and Chandra. *Entomological News*, 128: 448-459, 2019

The species *Hedotettix mainpurensis* was described by Sunil Kumar Gupta and Kailash Chandra based on a Holotype collected from Chhattisgarh, Gariyaband, Udanti Wildlife Sanctuary, Mainpur forest, 499 m (20°17'25.5"N and 82°13'57.7"E) and nine Paratypes collected from different localities of Chhattisgarh. The type specimens have been deposited in the NZC ZSIK. The species name refers to the type locality, Mainpur.

Family
TETRIGIDAE

Genus
***Hedotettix* Bolivar, 1887**



Hedotettix mainpurensis Gupta and Chandra 2019

Hedotettix torengensis Gupta and Chandra 2019

Hedotettix torengensis Gupta and Chandra. *Entomological News*, 128: 448-459, 2019

The species *Hedotettix torengensis* was described by Sunil Kumar Gupta and Kailash Chandra based on a Holotype collected from Chhattisgarh, Gariyaband, Udanti Wildlife Sanctuary, Torenga Rest House, 443 m (22°11'07.0"N and 82°15'31.5"E) and eight Paratypes collected from different localities of Chhattisgarh. The type specimens have been deposited in the NZC ZSIK. The species is named after the type locality, Torenga.

Xestophrys namtseringa Kumar, Chandra and Saini. *Zootaxa*, 4652 (2): 397–400, 2019

The species *Xestophrys namtseringa* was described by H. Kumar, K. Chandra and J. Saini based on a Holotype collected from Arunachal Pradesh, Tawang, Namtsering, 1180 m (27.53236N and 91.67328E). The type specimen has been deposited in the NZC ZSIK. The species is named after the type locality, Namtsering of Arunachal Pradesh.

Xestophrys namtseringa Kumar, Chandra and Saini 2019

3.18. Trichoptera

Phylum
ARTHROPODA

Class
INSECTA

Order
TRICHOPTERA

Family
LEPIDOSTOMATIDAE

Genus
Lepidostoma **Rambur, 1842**

Lepidostoma kjeri Parey and Pandher. *Zoosymposia*, 14: 257–260, 2019 DOI: http://dx.doi.org/10.11646/zoosymposia.14.1.28, 2019

The species *Lepidostoma kjeri* was described by S. H. Parey and M. S. Pandher based on a Holotype and twelve Paratypes collected from Uttarakhand, Munsiayri, 2400m, three Paratypes collected from Uttarakhand, Hanumanchatti, 2200m and one Paratype collected from Arunachal Pradesh, Dirang, 1600 m. The type specimens have been deposited in ZSIK and in the Museum of Department of Zoology, School of Biosciences and Biotechnology, Baba Ghulam Shah Badshah University, Rajouri, Jammu and Kashmir. The species is named after Professor Karl Kjer for his outstanding work on the Trichoptera Bar Code Of Life and for hosting the 15th International Symposium on Trichoptera.

Family
PHILOPOTAMIDAE

Genus
Chimarra **Stephens, 1829**

Chimarra golitarensis Pandher and Parey. *Zoosymposia*, 14: 250–256, 2019 DOI: http://dx.doi.org/10.11646/zoosymposia.14.1.27, 2019

The species *Chimarra golitarensis* was described by M.S. Pandher and S.H. Parey based on a Holotype and one Paratype collected from Sikkim, Golitar, 2200 m. The type specimens have been deposited in the NPC. The species is named after the type locality, Golitar.

Chimarra kamengensis Pandher and Parey. *Zoosymposia*, 14: 250–256, 2019 DOI: http://dx.doi.org/10.11646/zoosymposia.14.1.27, 2019

The species *Chimarra kamengensis* was described by M.S. Pandher and S.H. Parey based on a Holotype and three Paratypes collected from Arunachal Pradesh, Bomdilla, 2700 m. The type specimens have been deposited in the NPC. This species is named after the district West Kameng in which Bomdilla the type locality falls.

Chimarra kanchenjungaensis Pandher and Parey. *Zoosymposia*, 14: 250–256, 2019 DOI: http://dx.doi.org/10.11646/zoosymposia.14.1.27, 2019

The species *Chimarra kanchenjungaensis* was described by M.S. Pandher and S.H. Parey based on a Holotype and two Paratypes collected from Sikkim, Singhik, 1700 m. The type specimens have been deposited in the NPC. The species is named after Kanchenjunga peak which is situated towards North-west of the type locality.

Chimarra serrata Pandher. *Braueria*, 46: 11-12, 2019

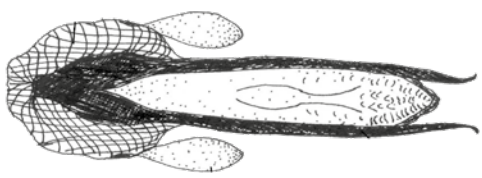
The species *Chimarra serrata* was described by M. S. Pandher based on a Holotype collected from Arunachal Pradesh, Ramsing bridge, 790 m. The type specimen has been deposited in NZC. The species name is based on the serrated outer margins of sclerotized lateral lobes of tergum X.

Family
POLYCENTROPODIDAE

Genus
Nyctiophylax **Brauer (1865)**

Nyctiophylax malickyii Pandher. *Records of Zoological Survey of India*, 119 (3): 234-237, 2019

The species *Nyctiophylax malickyii* was described by M. S. Pandher based on a Holotype and one Paratype collected from Himachal Pradesh, Panchpulla, 2100 m (32°3'41.1"N and 75°59'25.2"E). The type specimens have been deposited in the NZC ZSIK.



Nyctiophylax malickyii Pandher 2019

3.19. Collembola

Phylum
ARTHROPODA

Class
ENTOGNATHA

Order
ENTOMOBRYOMORPHA

Family
ENTOMOBRYIDAE

Genus
***Acanthurella* Borner, 1906**

Acanthurella satkosiaensis Mandal, Suman and Bhattacharya. *Journal of Entomology and Zoology Studies*, 7 (6): 551-556, 2019

The species *Acanthurella satkosiaensis* was described by G.P. Mandal, K.K. Suman and K.K. Bhattacharya based on a Holotype and two Paratypes collected from Odisha, Satkosia Wild Life Sanctuary, Silate Nullah, Banigocha East, district Nayagarh, 265 ft (20°31'065"N and 84°47'406"E). The type specimens have been deposited in the NZC, ZSIK. The species is named after type locality, Satkosia Tiger Reserve.

Acanthurella satkosiaensis Mandal, Suman and Bhattacharya 2019

Lepidocyrtoides malabaricus Mandal, Suman and Bhattacharya. *Zoological Survey of India, Fauna of Malabar Wildlife Sanctuary, Kozhikode, Kerala, Consevation Area Series*, 62 : 17-24, 2019

The species *Lepidocyrtoides malabaricus* was described by G.P. Mandal, K.K. Suman and K.K. Bhattacharya based on a Holotype and five Paratypes collected from Kerala, Malabar Wildlife Sanctuary, Kozhikode district, Urakkuzhi water falls, near Kakeyyam Dam (11°32.762'N and 75°55.456'E). The type specimens have been deposited in the Apterygota Section, ZSIK. The species is named after the type locality.

Genus:
Lepidocyrtoides
Schott, 1917

Lepidocyrtoides malabaricus Mandal, Suman and Bhattacharya 2019

Genus
Lepidocyrtus
Bourlet, 1839

Lepidocyrtus (Cinctocyrtus) satkosiaensis Mandal, Suman and Bhattacharya 2019

Lepidocyrtus (Cinctocyrtus) satkosiaensis Mandal, Suman and Bhattacharya. *Journal of Entomology and Zoology Studies*, 7 (6): 551-556, 2019

The species *Lepidocyrtus (Cinctocyrtus) satkosiaensis* was described by G.P. Mandal, K.K. Suman and K.K. Bhattacharya based on a Holotype and thirteen Paratypes collected from Odisha, Satkosia Wild Life Sanctuary, Buguda, Banigocha West, Baisapally, district Nayagarh (20°24'841"N and 84°43'428"E). The type specimens have been deposited in the NZC, ZSIK. The species is named after type locality.

Genus
Sinella Brook, 1882

Sinella jaldaparaensis Mandal, Suman and Bhattacharya. _Journal of Entomology and Zoology Studies_, 7 (4): 145-150, 2019

The species *Sinella jaldaparaensis* was described by G. P. Mandal, K. K. Suman and K. K. Bhattacharya based on a Holotype and nine Paratypes collected from West Bengal, Alipurduar district, 50 Feet Beat, North range, Jaldapara National Park (26°69.534'N and 89°280.481'E). The type specimens have been deposited in the NZC, ZSIK. The species is named after type locality.

Sinella jaldaparaensis
Mandal, Suman and Bhattacharya 2019

Family
PARONELLIDAE

Genus
Cyphoderopsis Carpenter, 1917

Cyphoderopsis gorumaraensis Mandal, Suman and Bhattacharya. _Journal of Entomology and Zoology Studies_, 7 (4): 145-150, 2019

The species *Cyphoderopsis gorumaraensis* was described by G. P. Mandal, K. K. Suman and K. K. Bhattacharya based on a Holotype and eighteen Paratypes collected from West Bengal, Jalpaiguri district, Gorumara Beat, Gorumara National Park (26°47.272'N and 88°50.487'E). The type specimens have been deposited in the NZC, ZSIK. The species is named after the type locality.

Cyphoderopsis gorumaraensis
Mandal, Suman and Bhattacharya 2019

Order
PODUROMORPHA

Family
HYPOGASTRURIDAE

Genus
Hypogastrura Bourlet, 1839

Hypogastrura satkosiaensis
Mandal & Arbea 2019

Hypogastrura satkosiaensis Mandal & Arbea. _Zootaxa_, 4608 (2): 279–290, 2019

The species *Hypogastrura satkosiaensis* was described by G. P. Mandal and J. Arbea based on a Holotype and ninety five Paratypes collected from Odisha, Satkosia Wild Life Sanctuary, 265 ft, (20°30'081"N and 84°50'394"E). The type specimens have been deposited in the NZC, ZSIK. The new species is named after the type locality.

3.20. Crustacea

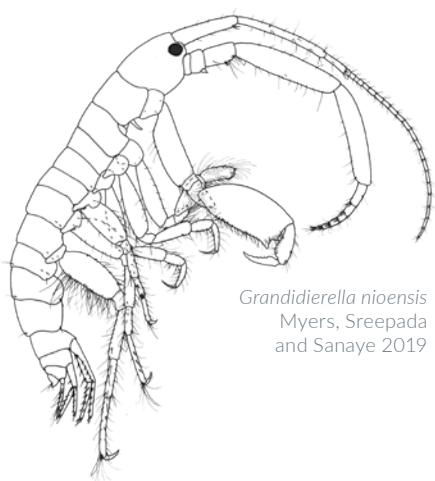
Phylum
ARTHROPODA

Class
MALACOSTRACA

Order
AMPHIPODA

Family
AORIDAE

Genus
Grandidierella
Coutiere, 1904



Grandidierella nioensis Myers, Sreepada and Sanaye 2019

Grandidierella nioensis Myers, Sreepada and Sanaye. *Zootaxa*, 4544 (1): 119-124, 2019

The species *Grandidierella nioensis* was described by A. A. Myers, R. A. Sreepada and S. V. Sanaye based on a Holotype and around three hundred Paratypes collected from Andhra Pradesh, Machilipatnam, Palakayatippa village, east coast of India (15°58'54.32''N and 81°05'51.88''E). The type specimens have been deposited in the BMNH, London. The species name refers to the Institute where the species were cultured.

Indobathynella socrates Shaik. *Zootaxa*, 4565 (3): 345–360, 2019

The species *Indobathynella socrates* was described by Shabuddin Shaik based on a Holotype and three Paratypes collected from Andhra Pradesh, 8 km from Borra Caves in Visakhapatnam District, Karaiguda Cave, 838 m (18°18'.33.3''N and 0.83°01'31.9''E). The type specimens have been deposited in the Museum national d'Histoire naturelle Paris, France. The species is named in honor of Socrates, the Greek philosopher.

Order
BATHYNELLACEA

Family
BATHYNELLIDAE

Genus
Indobathynella **Ranga Reddy & Totakura, 2012**

Indobathynella socrates Shaik 2019

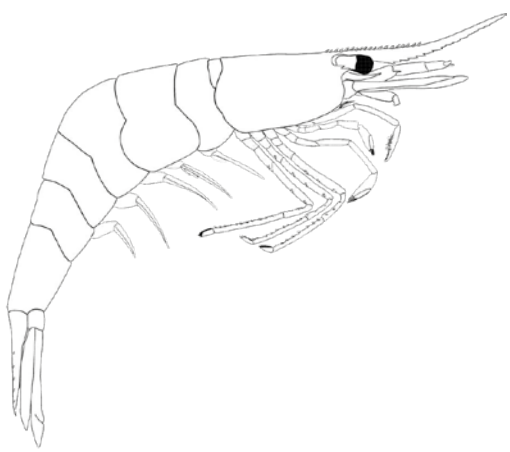
Caridina kutchi Pandya and Richard. *Zootaxa*,4568 (3): 470–482, 2019

The species *Caridina kutchi* was described by Pranav J. Pandya and Jasmine Richard based on a Holotype collected from Gujarat, Jagadiya Dam, Khari River, Kutch and eleven Paratypes collected from different localities of Gujarat. The type specimens have been deposited in R.R. Lalan College, Bhuj, Gujarat. The species name refers to the type locality, Kutch.

Order
DECAPODA

Family
ATYIDAE

Genus
Caridina
H. Milne-Edwards, 1837



Caridina kutchi Pandya and Richard 2019

Family
DROMIIDAE

Genus
Conchoecetes **Stimpson, 1858**

Conchoecetes investigator McLay, Naruse. *Zootaxa*, 4706 (1): 001–047, 2019

The species *Conchoecetes investigator* was described by Colin L. McLay and Tohru Naruse based on a Holotype collected from Andaman Island, Port Blair, Bay of Bengal (11°67'N and 92°73'E). The type specimen has been deposited in the Australian Museum, Sydney. The species name refers to the Royal Indian Marine Survey Ship "Investigator", by which it was collected.

Conchoecetes investigator McLay, Naruse 2019

Family
EUMUNIDIDAE

Genus
Eumunida **Smith, 1883**

Eumunida multispina Komai, Chakraborty, Paramasivam and Gidda. *Zootaxa*, 4590 (4): 440–456, 2019

The species *Eumunida multispina* was described by T. Komai, R. D. Chakraborty, P. Paramasivam and M. Gidda based on a Holotype collected from Kerala, Kollam, off Sakthikulangara Fishing Port, southeastern Arabian Sea (08°56'60"N and 76°32'34"E) and one Paratype collected from Kerala, off Kalamuku Fishing Port, southeastern Arabian Sea (08°56'60"N and 76°32'34"E). The type specimens have been deposited in the CMFRI. The species name refers to the numerous epigastric and branchial marginal spines on the carapace.

Eumunida multispina Komai, Chakraborty, Paramasivam and Gidda 2019

Family
GECARCINUCIDAE

Genus
Arcithelphusa **Pati & Sudha Devi, 2015**

Arcithelphusa tumpikkai Pati, Sujila and Devi. *Zootaxa*,4674 (2): 203–214, 2019

The species *Arcithelphusa tumpikkai* was described by S.K. Pati, P.S. Sujila and A.R. Sudha Devi based on a Holotype and two Paratypes collected from Kerala, Wayanad district, Makkimala, 792 m (11.869°N and 75.948°E) and two Paratypes collected from Wayanad district, Varayal, 729 m (11.838°N and 75.901°E). The type specimens have been deposited in the ZSI-WRC, Pune. The species name is derived from the Malayalam word tumpikkai which is used for elephant trunk.

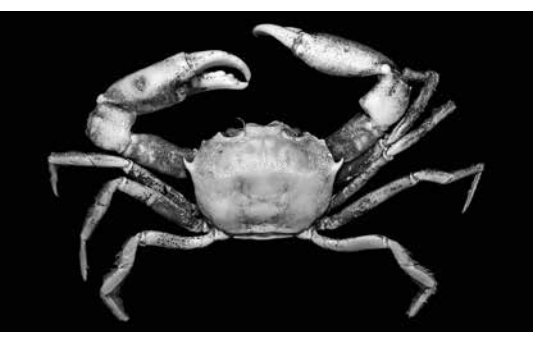
Arcithelphusa tumpikkai Pati, Sujila and Devi 2019

Family
GONEPLACIDAE

Genus
***Carcinoplax* H. Milne Edwards, 1852 s. str.**

Carcinoplax mistio Ng & Mitra. *Nauplius The Journal of the Brazilian Crustacean Society*,DOI: 10.1590/2358-2936e2019004, 2019

The species *Carcinoplax mistio* was described by Peter K.L. Ng and Santanu Mitra based on a Holotype and two Paratypes collected from Bay of Bengal, West Bengal, District 24 Parganas (South), trail by-catch, Fresargunj Fishing Harbour. The Type specimens have been deposited in the ZSIK, India; and Zoological Reference Collection of the Lee Kong Chian BMNH, National University of Singapore. The species name "mistio" is derived from the Latin for "a mixture" of characters with its related species.



Carcinoplax mistio Ng & Mitra 2019

Family
MAJIDAE

Genus
***Kasagia* Richer de Forges & Ng, 2007**

Kasagia sudhakari Padate, Manjebrayakath and Ng 2019

Kasagia sudhakari Padate, Manjebrayakath and Ng. *Marine Biology Research*, DOI: https://doi.org/10.1080/17451000.2019.1637527, 2019

The species *Kasagia sudhakari* was described by Vinay P. Padate, Hashim Manjebrayakth and Peter K.L. Ng based on a Holotype and one Paratype collected from Arabian Sea, off Cape Comorin, India, 109 m (7.44°N and 77.60°E). The type specimens have been deposited in the Referral Centre collection of the CMLRE and the Zoological Reference Collection of the Lee Kong Chian BMNH of the National University of Singapore. The species is named in honor of marine scientist and the Director of CMLRE, Dr. M. Sudhakar.

Family
PALAEMONIDAE

Genus
***Periclimenella* Bruce, 1995**

Periclimenella agattii Bharathi, Purushothaman, Akash, Jose, Madhavan, Dhinakaran, Saravanane, Kumar and Lal. *Zootaxa*, 4706 (3): 483–493, 2019

The species *Periclimenella agattii* was described by S. Bharathi, P. Purushothaman, S. Akash, Sheena Jose, Manu Madhavan, A. Dhinakaran, N. Saravanane, T.T. Ajith Kumar and Kuldeep Kumar Lal based on a Holotype and seventeen Paratypes collected from Lakshadweep, off Agatti Islands, Arabian Sea (10°50'41"N, 72°11'23"E). The type specimens have been deposited in the National Museum and Repository of the ICAR-National Bureau of Fish Genetic Resources, Lucknow. The species is named after the type locality, Agatti Island.

Periclimenella agattii Bharathi, Purushothaman, Akash, Jose, Madhavan, Dhinakaran, Saravanane, Kumar and Lal 2019

Family
POTAMIDAE

Genus
***Acanthopotamon* Kemp, 1918**

Acanthopotamon horai Pati, Mitra & Yeo. *Journal of Crustacean Biology*, DOI: 0.1093/jcbiol/ruz040, 2018

The species *Acanthopotamon horai* was described by Sameer K. Pati, Santanu Mitra and Darren C.J. Yeo based on a Holotype and two Paratypes collected from Mizoram, Kolasib district, Bairabi, Tlawng River, 38 m (24.196° N & 92.538° E) and one Paratype collected from Arunachal Pradesh, East Kameng district, Dibru River, 164 m (26.988°N and 93.027°E). The Type specimens have been deposited in the Crustacea Section, ZSIK and ZSI-WRC, Pune.The species is named after Dr. Sunder Lal Hora, an Indian ichthyologist, and the second Indian Director of the Zoological Survey of India.

Acanthopotamon horai Pati, Mitra & Yeo 2019

3.21. Arachnida

Phylum
ARTHROPODA

Class
ARACHNIDA

Order
ARANEAE

Family
ARANEIDAE

Genus
***Eriovixia* Archer, 1951**

Eriovixia kachugaonensis P. Basumatary, Chanda, Das, Kalita, Brahma, T. Basumatary, B. K. Basumatary & Daimary 2019

Eriovixia kachugaonensis P. Basumatary, Chanda, Das, Kalita, Brahma, T. Basumatary, B. K. Basumatary & Daimary. *Arachnology*, 18 (1), 24–27, 2019

The species *Eriovixia kachugaonensis* was described by P. Basumatary, D, Chanda, S. Das, J. Kalita, D. Brahma, T. Basumatary, B. K. Basumatary and S. Daimary based on a Holotype collected from Assam, Kachugaon, 81 m (26°44'44.1"N and 90°08'14.6"E) and two Paratypes collected from different places of Assam. The type specimens are deposited in Biodiversity Museum Gauhati University, Northeast Region. The species is named after the type locality Kachugaon.

Paraplectana mamoniae Basumatary and Brahma 2019

Genus
***Paraplectana* Brito Capello, 1867**

Paraplectana mamoniae Basumatary and Brahma. *Arachnology*, 18 (3), 276–279, 2019

The species *Paraplectana mamoniae* was described by P. Basumatary and D. Brahma based on a Holotype and a paratype collected from Assam, Kokrajhar, Jharbari Forest Range, 70 m (26°36'22.8"N and 90°14'45.3"E). The type specimens have been deposited in the ZSI-NERC. The species name is dedicated in memory of Lt. Mamoni Rava who was a researcher from the Department of Biotechnology, Bodoland University.

Idiops nilagiri Das, Diksha and Khan. *Journal of Asia-Pacific Biodiversity*, 12: 678-681, 2019

The species *Idiops nilagiri* was described by S. K. Das, Diksha and R. A. Khan based on a Holotype and a Paratype collected from Odisha, Baleswar (21°40'25.19''N and 86°46'74.65"E). The type specimens have been deposited at Indraprastha University Museum, New Delhi. The species is named after the type locality, Nilagiri.

Family
IDIOPIDAE

Genus
***Idiops* Perty, 1833**

Idiops nilagiri Das, Diksha and Khan 2019

Family
OCHYROCERATIDAE

Genus
Althepus
Thorell, 1898

Althepus devraii Kulkarni and Duperre 2019

Althepus devraii Kulkarni and Duperre. *Munis Entomology & Zoology Journal*, 14 (1): 158-164, 2019

The species *Althepus devraii* was described by M. L. Kulkarni and N. Duperre based on a Holotype and one Allotype collected from Pune, Mulshi, Nandivali village (18°33'33.09"N and 73°26'30.87"E). The type specimens have been deposited in the Research Collections of the Museum and Field Stations Facility at NCBS, Bangalore. The species name is derived from Marathi name of Sacred Grove, Devrai, near which the type specimen was found.

Family
SALTICIDAE

Genus
Cocalus
C.L. Koch, 1846

Cocalus lacinia Sudhin, Nafin, Sumesh and Sudhikumar 2019

Cocalus lacinia Sudhin, Nafin, Sumesh and Sudhikumar. *Arthropoda Selecta*, 28(1): 125–130, 2019

The species *Cocalus lacinia* was described by P. P. Sudhin, K. S. Nafin, N.V. Sumesh and A. V. Sudhikumar based on a Holotype and one paratype collected from Kerala,Wayanad Wildlife Sanctuary, 916 m (11°45'27.6"N and 76°14'50.5"E), 842 m (11°45'56.3"N and 76°14'57.9"E). The type specimens have been deposited in the reference collection at the Centre for Animal Taxonomy and Ecology, Department of Zoology, Christ College, Irinjalakuda, Kerala, India. The species name refers to the presence of a flap-like structure on the basal tibia of the male palp.

Genus
***Epeus* Peckham et Peckham, 1886**

Epeus triangulopalpis Malamel, Nafin, Sudhikumar and Sebastian. *Arthropoda Selecta*, 28 (2): 267–276, 2019

The species *Epeus triangulopalpis* was described by J. J. Malamel, K. S. Nafin, A. V. Sudhikumar and P. A. Sebastian based on a Holotype and one Paratype collected from Kerala, Pathiramanal Island, 4 m (9°37'07.11"N and 76°23'04.95"E) and two Paratypes collected from Irinjalakuda, Christ college, 15 m (10°21'28"N, 76°12'47"E). The type specimens have been deposited in the reference collection housed at the Division of Arachnology, Department of Zoology, Sacred Heart College, Thevara, Cochin, Kerala (ADSH) and the Centre for Animal Taxonomy and Ecology, Christ College, Irinjalakuda, Kerala. The species name refers to the triangular cymbial apophysis.

Epeus triangulopalpis Malamel, Nafin, Sudhikumar and Sebastian 2019

Genus
Habrocestum
Simon, 1876

Habrocestum longispinum Sankaran, Malamel, Joseph & Sebastian. *Journal of Natural History*,53 (1–2): 1–15, 2019

The species *Habrocestum longispinum* was described by P. M. Sankaran, J. J. Malamel, M. M. Joseph and P. A. Sebastian based on a Holotype and six Paratypes collected from Kerala, Ernakulam, Illithodu, 24 m (10°11'55.94"N and 76°33'00.57"E). The type specimens have been deposited in a reference collection housed at the ADSH. The species name refers to the long ventral spines on the tibiae and metatarsi of first legs of the new species.

Habrocestum longispinum Sankaran, Malamel, Joseph & Sebastian 2019

Genus
Indomarengo
Benjamin, 2004

Indomarengo chavarapater Malamel, Prajapati, Sudhikumar and Sebastian. *Arthropoda Selecta*, 28 (3): 424–434, 2019

The species *Indomarengo chavarapater* was described by J.J. Malamel, D.A. Prajapati, A.V. Sudhikumar and P.A. Sebastian based on a Holotype and three Paratypes collected from Kerala, Alappuzha, Pathiramanal Island, 4m (9°37'07.11"N and 76°23'04.95"E). The type specimens have been deposited in the reference collection at the ADSH. The species name is dedicated to Saint Chavara who was a great educator and founder of the Carmelites of Mary Immaculate congregation, the first Catholic congregation in India.

Indomarengo chavarapater Malamel, Prajapati, Sudhikumar and Sebastian 2019

Genus
***Indopadilla* Caleb et Sankaran, 2019**

Indopadilla darjeeling Caleb, Sankaran, Nafin and Acharya. *Arthropoda Selecta*, 28 (4): 567–574, 2019

The genus *Indopadilla* and the species *Indopadilla darjeeling* was described by John T.D. Caleb, P. M. Sankaran, K. S. Nafin and S. Acharya based on a Holotype and two Paratypes collected from West Bengal, Darjeeling district, Peshok, 1066 m (27.07°N and 88.39°E). The type specimens have been deposited in the NZC, Arachnida Section, ZSIK. The generic name is a combination of the *Indo* and *Padilla* referring its close resemblance to *Padillothorax* and the species name refers to the type locality, Darjeeling.

Indopadilla darjeeling Caleb, Sankaran, Nafin and Acharya 2019

Genus
Jerzego
Maddison, 2014

Jerzego sunillimaye Sanap, Caleb and Joglekar 2019

Jerzego sunillimaye Sanap, Caleb and Joglekar. *Arthropoda Selecta*, 28(1): 113–124, 2019

The species *Jerzego sunillimaye* was described by R. V. Sanap, John T.D. Caleb and A. Joglekar based on a Holotype and four Paratypes collected from Maharashtra, Mumbai, Aarey Milk Colony, 61 m (19°8'37.4922"N and 72°52'51.459"E). The type specimens have been deposited in the research collection facility of the NCBS. The species is named after the authors' friend and Forest Officer, Sunil Limaye.

Genus
***Marengo* Peckham et Peckham, 1892**

Marengo batheryensis Sudhin, Nafin, Benjamin and Sudhikumar. *Arthropoda Selecta*, 28(3): 435–444, 2019

The species *Marengo batheryensis* was described by P. P. Sudhin, K. S. Nafin, S. P. Benjamin and A. V. Sudhikumar based on a Holotype and one Paratype collected from Kerala, Wayanad Wildlife Sanctuary, 868 m (11°42'09.8"N and 76°20'39.6"E), 746 m (11°42'09.8"N and 76°20'39.6"E). The type specimens have been deposited in the reference collection at the Centre for Animal Taxonomy and Ecology, Department of Zoology, Christ College Irinjalakuda, Kerala. The species name is derived from the last name of the forest range Sulthan Bathery from where the type series was collected.

Marengo batheryensis Sudhin, Nafin, Benjamin and Sudhikumar 2019

Marengo sachintendulkar Malamel, Prajapati, Sudhikumar and Sebastian. *Arthropoda Selecta*, 28 (3): 424–434, 2019

The species *Marengo sachintendulkar* was described by J.J. Malamel, D.A. Prajapati, A.V. Sudhikumar and P.A. Sebastian based on a Holotype collected from Gujarat, Gujarat University campus in Ahmadabad, 53 m (23°02'15.66"N and 72°32' 35.24"E), two Paratypes collected from Tamil Nadu, Vedanthagal bird sanctuary in Kancheepuram, 122 m (12° 32'44"N and 79°51'21"E) and one Paratype collected from Kerala, Alappuzha Pathiramanal Island, 4 m (9°37'07.11"N and 76°23'04.95"E). The type specimens have been deposited in the reference collection at the ADSH. The species name is dedicated to the Indian cricketer Bharat Ratna Sachin Tendulkar.

Marengo sachintendulkar Malamel, Prajapati, Sudhikumar and Sebastian 2019

Marengo zebra Sudhin, Nafin, Benjamin and Sudhikumar. *Arthropoda Selecta*,28(3): 435–444, 2019

The species *Marengo zebra* was described by P. P. Sudhin, K. S. Nafin, S. P. Benjamin and A. V. Sudhikumar based on a Holotype collected from Kerala, Wayanad district, Sulthan Bathery Range, Wayanad Wildlife Sanctuary, 896 m (11°43'54.5"N and 76°20'18.5"E) and four Paratypes collected from different localities of Wayanad district, Kerala. The type specimens have been deposited in the reference collection at the Centre for Animal Taxonomy and Ecology, Department of Zoology, Christ College Irinjalakuda, Kerala. The species name refers to the black and white striped abdomen in both sexes.

Marengo zebra Sudhin, Nafin, Benjamin and Sudhikumar 2019

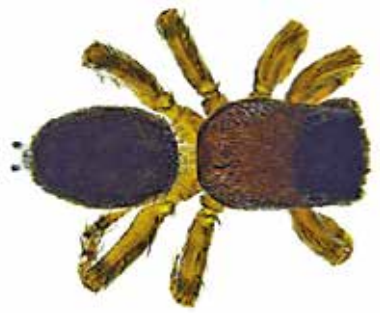
Genus
Pancorius
Simon, 1902

Pancorius nagaland Caleb, Bera, Acharya and Kumar. *Arthropoda Selecta*,28(2): 261–266, 2019

The species *Pancorius nagaland* was described by John T.D. Caleb, C. Bera, S. Acharya and V. Kumar based on a Holotype collected from Nagaland, Peren district, Intangki National Park,195 m (25.663889°N and 93.512778°E) and one Paratype collected from Arunachal Pradesh, Tirap District, Gibbon's land, 16 km east of Miao, 701 m (27.4882°N and 96.3576°E). The type specimens have been deposited in the Arachnida Section of the NZC, ZSIK and the Centre for DNA Taxonomy, ZSIK. The species name refers to the type locality, Nagaland.

Pancorius nagaland
Caleb, Bera, Acharya and Kumar 2019

Genus
Phlegra
Simon, 1876



Phlegra abhinandanvarthamani
Prajapati 2019

Phlegra abhinandanvarthamani Prajapati. *Arthropoda Selecta*, 28 (4): 575–578, 2019

The species *Phlegra abhinandanvarthamani* was described by D.A. Prajapati based on a Holotype and one Paratype collected from Gujarat, Ahmedabad, Gujarat University, 53 m (23°02'11.72''N and 72°32'33.40"E). The type specimens have been deposited in the reference collection of the Gujarat Ecological and Educational Research Foundation, Gandhinagar, Gujarat. The species name is dedicated to an air warrior of the Indian Air Force, a Wing Commander Abhinandan Varthaman, for his valorous actions and courage during the India-Pakistan standoff in 2019.

Genus
Piranthus
Thorell, 1895

Piranthus planolancis Malamel, Nafin, Sudhikumar and Sebastian. *Arthropoda Selecta*, 28 (2): 267–276, 2019

The species *Piranthus planolancis* was described by J. J. Malamel, K. S. Nafin, A. V. Sudhikumar and P. A. Sebastian based on a Holotype collected from Kerala, Pathiramanal Island, 4 m (9°37'07.11"N and 76°23'04.95") and one Paratype collected from Kerala, Thrissur, Vellangallur, 10 m (10°18'24.4"N and 76°12'16.1"E). The type specimens have been deposited in the reference collection housed at the ADSH and the Centre for Animal Taxonomy and Ecology, Christ College, Irinjalakuda, Kerala. The species name refers to the plain posterior median plate of the epigyne.

Piranthus planolancis
Malamel, Nafin, Sudhikumar and Sebastian 2019

Theridion odisha Prasad, Tyagi, Caleb and Kumar. *Ecologica Montenegrina*, 26: 108-117, 2019

The species *Theridion odisha* was described by P. Prasad, K.Tyagi, John T.D. Caleb and V. Kumar based on a Holotype collected from Odisha, Bhubaneshwar, KIIT campus, 55 m (20.3547°N and 85.8152°E). The type specimen has been deposited in the NZC, ZSIK. The species name refers to the type locality.

Theridion odisha
Prasad, Tyagi, Caleb and Kumar 2019

Family
THERIDIIDAE

Genus
Theridion
Walckenaer, 1805

Order
TROMBIDIFORMES

Family
ATURIDAE

Genus
***Kongsbergia* Thor, 1899**

Kongsbergia (Kongsbergia) indica Pesic, Smit and Bahuguna. *Systematic & Applied Acarology*, 24 (10): 1868–1880, 2019

The species *Kongsbergia (Kongsbergia) indica* was described by V. Pesic, H. Smit and P. Bahuguna based on a Holotype and two Paratypes collected from Uttarakhand, Pauri Garhwal, LG-02 stream Randi Gad near Sandal (30°06'31''N and 78°37'07''E). The species is named for its occurrence in India.

Family
DIPTILOMIOPIDAE

Genus
***Diptilomiopus* Nalepa (1916)**

Diptilomiopus indogangeticus Chakrabarti, Sur and Sarkar. *Acarologia*, 59 (3): 383-394, 2019

The speices *Diptilomiopus indogangeticus* was described by S. Chakrabarti, S. Sur and S. Sarkar based on a Holotype and seventeen Paratypes collected from West Bengal, Murshidabad, Chunakhali, 20 m (24°07'44"N and 88°17'40"E). The type specimens have been deposited in the collection of the Post-Graduate Department of Zoology, Vidyasagar College. The species name is derived from the locality of collections of infesting plants occurring Indo-Gangetic plane on the southernside of the River Ganges in Murshidabad district.

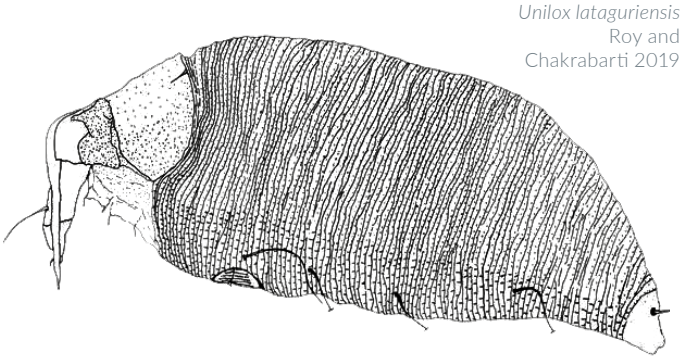
Diptilomiopus mohanasundarami Chakrabarti, Sur and Sarkar. *Acarologia*, 59 (3): 383-394, 2019

The species *Diptilomiopus mohanasundarami* was described by S. Chakrabarti, S. Sur and S. Sarkar based on a Holotype and fourteen Paratypes collected from West Bengal, Nadia, Kalyani, 11 m (22°98'56"N and 88°26'44"E). The type specimens have been deposited in the collection of the Post-Graduate Department of Zoology, Vidyasagar College. The species is named after Prof. M. Mohanasundaram, eminent Acarologist from India.

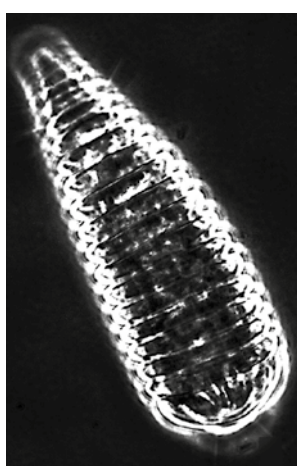
Genus
***Unilox* Roy and Chakrabarti, 2019**

Unilox lataguriensis Roy and Chakrabarti. *Systematic & Applied Acarology*, 24 (8): 1449–1454, 2019

The genus *Unilox* and the species *Unilox lataguriensis* was described by S. Roy and S. Chakrabarti based on a Holotype and seventeen Paratypes collected from West Bengal, Jalpaiguri, Lataguri, 139 m (26°42'N and 88°46"E). The type specimens have been deposited in the collection of the Post-Graduate Department of Zoology, Vidyasagar College, Kolkata. The generic name refers to the single transverse groove behind the prodorsal shield and the species name refers to the type locality, Lataguri.



Unilox lataguriensis Roy and Chakrabarti 2019



Mesoshieldophyes varecae Chakrabarti, Pandit and Sur 2019

Family
ERIOPHYIDAE

Genus
***Mesoshieldophyes* Chakrabarti & Pandit, 2019**

Mesoshieldophyes varecae Chakrabarti, Pandit and Sur. *ZooKeys*,843: 39–49, 2019

The species *Mesoshieldophyes varecae* was described by S. Chakrabarti, R. Pandit and S. Sur based on a Holotype and thirty eight Paratypes collected from West Bengal, Darjeeling, Bengdubi Forest, 163 m (26°42'30.1"N and 88°25'36.7"E). The type specimens have been deposited in the collection of the Post-Graduate Department of Zoology, Vidyasagar College, Kolkata. The species name varecae is from the specific designation of the host plant in the genitive case.

Family
HYGROBATIDAE

Genus
Atractides
Koch, 1837

Atractides (Atractides) indicus Pesic, Smit and Bahuguna. *Systematic & Applied Acarology*, 24 (1): 59-80, 2019

The species *Atractides (Atractides) indicus* was described by V. Pesic, H Smit and P. Bahuguna based on a Holotype and one Paratype collected from Uttarakhand, Randi Gad Stream, (30°6'28.26"N and 78°37'30.68"E) and one Paratype collected from Kyunja Gad Stream (30°25'37.56"N and 79°4'20.55"E). The type specimens have been deposited in Naturalis Biodiversity Center, Leiden, Netherlands. The species is named after India.

Genus
Hygrobates
Koch, 1837

Hygrobates dobriyali Pesic, Smit and Bahuguna. *Systematic & Applied Acarology*,24 (1): 59-80, 2019

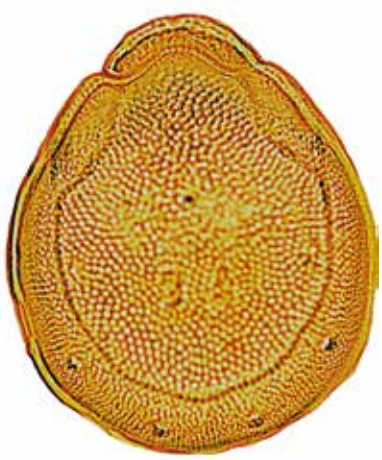
The species *Hygrobates dobriyali* was described by V. Pesic, H Smit and P. Bahuguna based on a Holotype collected from Uttarakhand, Kyunja Gad Stream (30°25'37.56"N and 79°4'20.55"E). The type specimen has been deposited in Naturalis Biodiversity Center, Leiden, Netherlands. The species is named after Prof. A.K. Dobriyal in appreciation of his pioneer work on the water mite fauna of Garhwal Himalaya.

Family
TORRENTICOLIDAE

Genus
Torrenticola
Piersig, 1896

Torrenticola chatterjeei Pesic, Smit and Bahuguna. *Systematic & Applied Acarology*, 24 (1): 59-80, 2019

The species *Torrenticola chatterjeei* was described by V. Pesic, H. Smit and P. Bahuguna based on a Holotype collected from Uttarakhand, Randi Gad Stream, (30°6'28.26"N and 78°37'30.68"E). The type specimen has been deposited in Naturalis Biodiversity Center, Leiden, Netherlands. The species is named after Dr. Tapas Chatterjee in appreciation of his work on water mite fauna of India



Torrenticola chatterjeei Pesic, Smit and Bahuguna 2019

Torrenticola uttarakhandensis Pesic, Smit and Bahuguna 2019

Torrenticola uttarakhandensis Pesic, Smit and Bahuguna. *Systematic & Applied Acarology*,24 (1): 59-80, 2019

The species *Torrenticola uttarakhandensis* was described by V. Pesic, H Smit and P. Bahuguna based on a Holotype and one Paratype collected from Uttarakhand, Randi Gad Stream, (30°6'28.26"N and 78°37'30.68"E). The type specimens have been deposited in Naturalis Biodiversity Center, Leiden, Netherlands. The species is named after the type locality.

3.22. Acanthocephala

Phylum
ACANTHOCEPHALA

Class
EOACANTHOCEPHALA

Order
GYRACANTHOCEPHALA

Family
QUADRIGYRIDAE

Genus
***Pallisentis* Van Cleave, 1928**

Pallisentis amini Gautam, Misra & Saxena. *Acta Parasitologica*, DOI: https://doi.org/10.2478/s11686-018-00010-y, 2019

The species *Pallisentis amini* was described by N. K. Gautam, P. K. Misra and A. M. Saxena based on a Holotype, an Allotype and fifteen Paratypes collected from Uttar Pradesh, Lucknow (26.8467° N and 80.9462° E). The species was found infecting the intestine of the host *Channa striatus* Bloch. The type specimens have been deposited in Gangetic Plains Regional Centre, Zoological Survey of India, Patna (ZSI-GPRC) in Zoobank and in the Helminthology lab, Department of Zoology, University of Lucknow, U.P., India. The specific epithet is named in honour of Prof. Omar M. Amin for his contribution in the field of acanthocephalan taxonomy.

Pallisentis amini Gautam, Misra & Saxena 2019

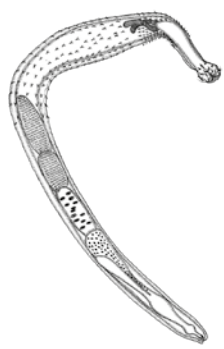
Pallisentis lucknowensis Gautam, Misra & Saxena. *Acta Parasitologica*, DOI: https://doi.org/10.2478/s11686-018-00010-y, 2019.

The species *Pallisentis lucknowensis* was described by N. K. Gautam, P. K. Misra and A. M. Saxena based on a Holotype, an Allotype and seven Paratypes collected from Uttar Pradesh, Lucknow (26.8467° N and 80.9462° E). The species was found infecting the intestine of the host *Channa punctatus*, Bloch. The type specimens have been deposited in ZSI-GPRC in Zoobank and in the Helminthology lab, Department of Zoology, University of Lucknow, U.P., India. The species was named after the type locality.

Pallisentis lucknowensis Gautam, Misra & Saxena 2019

Pallisentis meyeri Gautam, Misra & Saxena. *Acta Parasitologica*, DOI: https://doi.org/10.2478/s11686-018-00010-y, 2019.

The species *Pallisentis meyeri* was described by N. K. Gautam, P. K. Misra and A. M. Saxena based on a Holotype, an Allotype and nine Paratypes collected from Uttar Pradesh, Lucknow (26.8467° N and 80.9462°E). The species was found infecting the intestine of the host *Channa punctatus* Bloch. The type specimens have been deposited in ZSI-GPRC in Zoobank and in the Helminthology lab, Department of Zoology, University of Lucknow, U.P., India.The species was named in honor of Prof. Meyer.



Pallisentis meyeri Gautam, Misra & Saxena 2019

Pallisentis unnaoensis Gautam, Misra & Saxena.*Acta Parasitologica*, DOI: https://doi.org/10.2478/s11686-018-00010-y, 2019.

The species *Pallisentis unnaoensis* was described by N. K. Gautam, P. K. Misra and A. M. Saxena based on a Holotype, an Allotype and nine Paratypes collected from Uttar Pradesh, Unnao (26.5393°N and 80.4878°E). The species was found infecting the intestine of the host *Glossogobius giuris* F. Hamilton. The type specimens have been deposited in ZSI-GPRC in Zoobank and in the Helminthology lab, Department of Zoology, University of Lucknow, U.P., India.The species name refers to the type locality.

Pallisentis unnaoensis Gautam, Misra & Saxena 2019

3.23. Nematoda

Phylum
NEMATODA

Class
SECERNENTEA

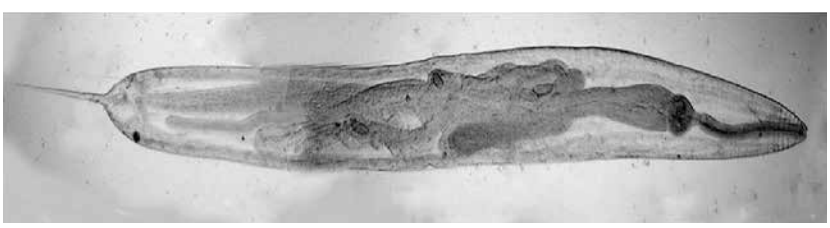
Order
OXYURIDA

Family
PHARYNGODONIDAE

Genus
Gyrinicola
Yamaguti, 1938

Gyrinicola dehradunensis Maity, Rizvi, Bursey and Chandra. *Acta Parasitologica*, DOI: https://doi.org/10.2478/s11686-019-00099-9, 2019

The species *Gyrinicola dehradunensis* was described by P. Maity, A. N. Rizvi, C.. R. Bursey and K. Chandra based on a Holotype and one Paratype collected from Uttarakhand, Dehradun, Dubda village, 896 m (30°19'764"N and 78°9'862"E). The species was found infecting the large intestine of the tadpoles of *Nanorana minica* (Dubois, 1975). The type specimens have been deposited in ZSIK. The species is named after the type locality, Dehradun.



Gyrinicola dehradunensis Maity, Rizvi, Bursey and Chandra 2019

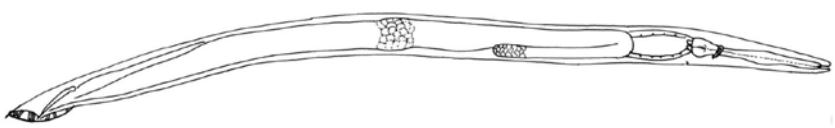
Order
RHABDITIDA

Family
RHABDITIDAE

Genus
Oscheius
Andrassy, 1976

Oscheius indicus Kumar, Jamal, Somvanshi, Chauhan and Mumtaz. *Journal of Nematology*, 51 (4): 1-11, 2019

The speices *Oscheius indicus* was described by P. Kumar, W. Jamal, V. S. Somvanshi, K. Chauhan and S. Mumtaz based on a Holotype and twenty eight Paratypes collected from Assam, Cachar district, from the soil samples of fallow fields. The type specimens have been deposited in the nematode collection of ZDAMU and National Nematode Collection of India housed at the Division of Nematology, ICAR-IARI.



Oscheius indicus Kumar, Jamal, Somvanshi, Chauhan and Mumtaz 2019

Order
SPIRURIDA

Family
PHYSALOPTERIDAE

Genus
Heliconema
Travassos, 1919

Heliconema monopteri Moravec, Chaudhary and Singh. *Helminthologia*, 56 (2): 124–131, 2019

The species *Heliconema monopteri* was described by F. Moravec, A. Chaudhary and H.S. Singh based on a Holotype and Paratypes collected from Uttar Pradesh, Bijnor district, Fish market in Bijnor (29.3724°N and 78.1358°E). The new species was found infecting the stomach and intestine of the host *Monopterus cuchia* (Hamilton) (Synbranchidae, Synbranchiformes). The type specimens have been deposited in the Helminthological Collection of the Institute of Parasitology, Biology Centre of the Czech Academy of Sciences, Ceske Budejovice, Czech Republic. The species name relates to the generic name of the host.

Order
TYLENCHIDA

Family
HOPLOLAIMIDAE

Genus
Scutellonema
Andrassy, 1958

Scutellonema bengalensis Sen. *Journal of Entomology and Zoology Studies*,7 (4): 1059-1066, 2019

The species *Scutellonema bengalensis* was described by Debabrata Sen based on a Holotype and twenty four Paratypes collected from West Bengal, South 24-Parganas district, Baruipur block, from soil around the roots of guava. The type specimens have been deposited in NZC, ZSIK. The species name is after the State, West Bengal.

Scutellonema bengalensis Sen 2019

Miodorylaimus istvani Sen. *Records of Zoological Survey of India*, 119 (4): 316-327, 2019

The species *Miodorylaimus istvani* was described by Debabrata Sen based on a Holotype and three Paratypes collected from Uttar Pradesh, Pilibhit district, Pilibhit Tiger Reserve, Mahof Forest Range, Dubaha village (28°42.855N and 079°56.486E). The type specimens have been deposited in NZC, ZSIK. The species is named after the author of the genus *Miodorylaimus* and eminent nematologist and Dr. (Prof.) Istvan Andrassy.

Miodorylaimus istvani Sen 2019

Class
ENOPLEA

Order
DORYLAIMIDA

Family
DORYLAIMIDAE

Genus
Miodorylaimus
Andrasssy, 1986

Sicaguttur kailashi Haldar, Gantait & Rizvi. *Indian Journal of Nematology*, 49 (1): 52-64, 2019

The species *Sicaguttur kailashi* was described by K. Haldar, V. V. Gantait and A. N. Rizvi based on a Holotype and three Paratypes collected from West Bengal, North 24 Parganas District, Barasat block, Bohira Kalibari (22°68'N and 88°56'E). The type specimens have been deposited in ZSIK. The species is named after the renowned Entomologist and Director, Zoological Survey of India, Dr. Kailash Chandra.

Genus
Sicaguttur
Siddiqi, 1971

Clavicauda indicus Haldar, Gantait & Rizvi. *Indian Journal of Nematology*, 49 (1): 52-64, 2019

The species *Clavicauda indicus* was described by K. Haldar, V. V. Gantait and A. N. Rizvi based on a Holotype and seven Paratypes collected from West Bengal, North 24 Parganas District, Barasat block, Bohira Kalibari (22°68'N and 88°56'E). The type specimens have been deposited in ZSIK. The species name *indicus* refers to first time described from India.

Family
NYGOLAIMIDAE

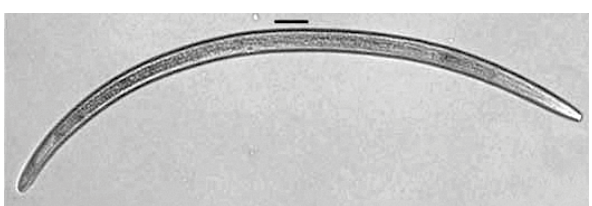
Genus
Clavicauda
Heyns, 1968

Family
QUDSIANEMATIDAE

Genus
Lordellonema
Andrassy, 1960

Lordellonema indicum Imran and Ahmad. *Annales Zoologici (Warszawa)*, 69 (4): 645-667, 2019

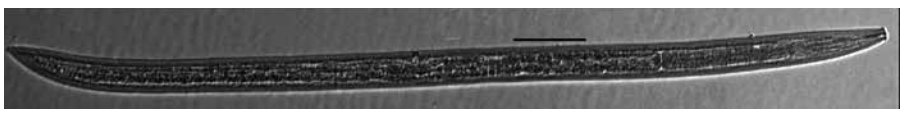
The species *Lordellonema indicum* was described by Zarrin Imran and Wasim Ahmad based on a Holotype and fourteen Paratypes collected from Uttar Pradesh, Aligarh, near Qila (27°55'32.69"N and 78°03'47.78"E). The type specimens have been deposited in the nematode collection of the ZDAMU and in the nematode collection of the University of Jaen, Spain. The species is named after the country of its origin.



Lordellonema indicum Imran and Ahmad 2019

Lordellonema paramacrodorum Imran and Ahmad. *Annales Zoologici (Warszawa), 69 (4): 645-667, 2019*

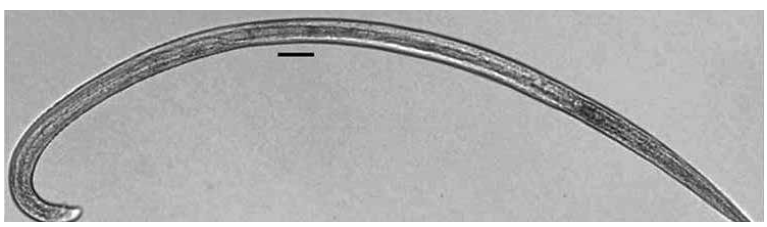
The species *Lordellonema paramacrodorum* was described by Zarrin Imran and Wasim Ahmad based on a Holotype and thirteen Paratypes collected from Andhra Pradesh, Visakapatnam, near Rishikunda Beach (17°46'57.02''N and 83°23'6.26''E). The type specimens have been deposited in the nematode collection of the ZDAMU and in the nematode collection of the University of Jaen, Spain. It is named *paramacrodorum* because of its resemblance with the *L. macrodorum*.



Lordellonema paramacrodorum Imran and Ahmad 2019

Lordellonema spicularis Imran and Ahmad. *Annales Zoologici (Warszawa), 69 (4): 645-667, 2019*

The species *Lordellonema spicularis* was described by Zarrin Imran and Wasim Ahmad based on a Holotype and ten Paratypes collected from Tamil Nadu, District Coimbatore, Pollachi town, Anamalai Hills (10°18'0.00''N and 77°00'0.00''E). The type specimens have been deposited in the nematode collection of the ZDAMU and in the nematode collection of the University of Jaen, Spain. The species is named spicularis because of its characteristic spicule shape.



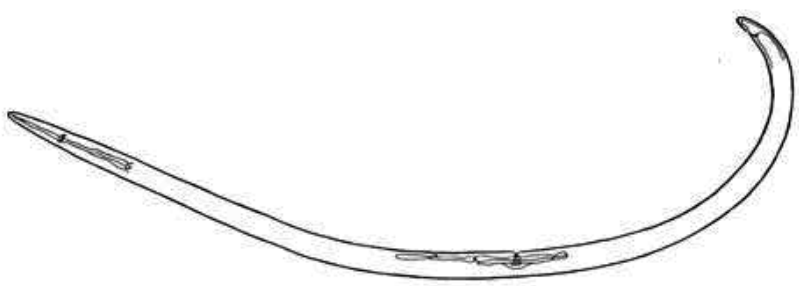
Lordellonema spicularis Imran and Ahmad 2019

Family
TYLENCHOLAIMIDAE

Genus
Rostrulium
Siddiqi, 1995

Rostrulium indicum Islam, Imran & Ahmad. *Zootaxa*,4550 (4): 573–578, 2019

The species *Rostrulium indicum* was described by Md. N. Islam, Z. Imran and W. Ahmad based on a Holotype and a Paratype and two Paratype juveniles collected from Karnataka, Bhagamandala, around the roots of shrubs and forest trees (12°23'29.1''N and 75°31'50.0''E). The type specimens have been deposited in the collection of the ZDAMU. The species is named after the country, India.



Rostrulium indicum Islam, Imran & Ahmad 2019

3.24.
Platyhelminthes

Phylum
PLATYHELMINTHES

Class
MONOGENEA

Order
MAZOCRAEIDEA

Family
MAZOCRAEIDAE

Genus
Mazocraes
Hermann, 1782

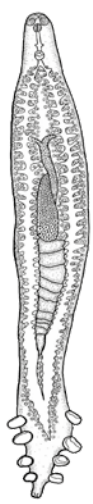
Mazocraes bengalensis Sailaja, Shameem and Madhavi 2019

Mazocraes bengalensis Sailaja, Shameem and Madhavi. *Journal of Parasitic Diseases*, DOI: https://doi.org/10.1007/s12639-019-01095-6, 2019

The species *Mazocraes bengalensis* was described by B. Sailaja, U. Shameem and R. Madhavi based on a Holotype collected from Visakhapatnam coast, Bay of Bengal. The host of the species is *Opisthopterus tardoore*. The type specimen has been deposited in ZSIK.

Mazocraes stolephorusi Sailaja, Shameem and Madhavi. *Journal of Parasitic Diseases*, DOI: https://doi.org/10.1007/s12639-019-01095-6, 2019

The species *Mazocraes stolephorusi* was described by B. Sailaja, U. Shameem and R. Madhavi based on a Holotype collected from Visakhapatnam coast, Bay of Bengal. The host of the species is *Stolephorus indicus*. The type specimen has been deposited in ZSIK.

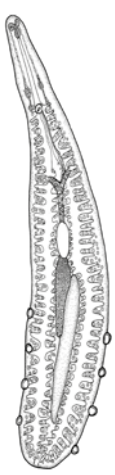


Mazocraes stolephorusi Sailaja, Shameem and Madhavi 2019

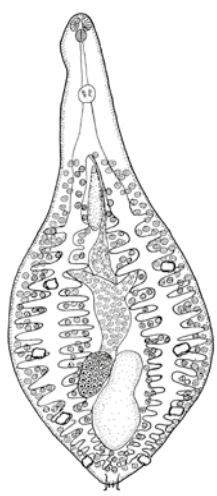
Mazocraeoides fusiformes Sailaja, Shameem and Madhavi. *Zootaxa*, 4608 (2): 233–246, 2019

The species *Mazocraeoides fusiformes* was described by B. Sailaja, U. Shameem and R. Madhavi based on a Holotype and two Paratypes collected from Visakhapatnam coast, Bay of Bengal. The species was found parasitising the gills of the host *Stolephorus indicus*.The type specimens have been deposited in ZSIK and BMNH, London. The species name refers to the fusiform shape of the body.

Genus
Mazocraeoides
Price, 1936



Mazocraeoides fusiformes Sailaja, Shameem and Madhavi 2019



Mazocraeoides rotundus Sailaja, Shameem and Madhavi 2019

Mazocraeoides rotundus Sailaja, Shameem and Madhavi. *Zootaxa*, 4608 (2): 233–246, 2019

The species *Mazocraeoides rotundus* was described by B. Sailaja, U. Shameem and R. Madhavi based on a Holotype and two Paratypes collected from Visakhapatnam coast, Bay of Bengal. The species was found parasitising the gills of the host *Ilisha filigera*. The type specimens have been deposited in ZSIK and BMNH, London. The species name refers to the round shape of the body.

Class
MONOGENOIDEA

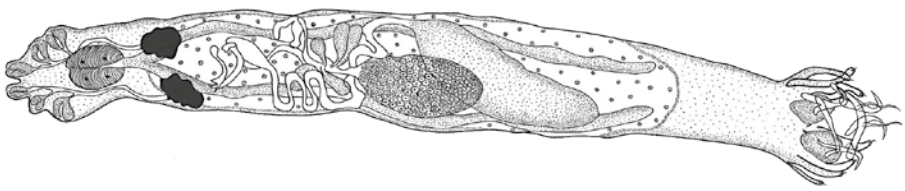
Order
DACTYLOGYRIDEA

Family
DACTYLOGYRIDAE

Genus
Hamatopeduncularia
Yamaguti, 1953

Hamatopeduncularia bifida Illa, Shameem, Serra, Melai, Mangam, Basuri, Petroni and Modeo.*The European Zoological Journal*,86 (1): 132–155, 2019

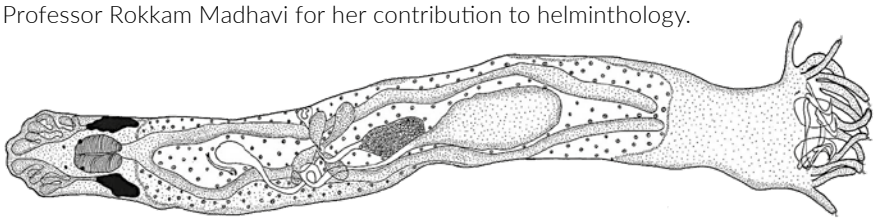
The species *Hamatopeduncularia bifida* was described by K. Illa, U. Shameem, V. Serra, M. Melai, S. Mangam, C. K. Basuri, G. Petroni and L. Modeo based on a Holotype collected from Andhra Pradesh, off the Visakhapatnam Coast, Bay of Bengal (17°47'N and 83°50"E). The species was found infecting the gill lamellae of the host species *Arius jella*. The type specimen has been deposited in the helminthological collections of the ZSI-CZRC.The species name refers to the bifurcated tip of the accessory piece of the male copulatory organ.



Hamatopeduncularia bifida Illa, Shameem, Serra, Melai, Mangam, Basuri, Petroni and Modeo 2019

Hamatopeduncularia madhaviae Illa, Shameem, Serra, Melai, Mangam, Basuri, Petroni and Modeo.*The European Zoological Journal*,86 (1): 132–155, 2019

The species *Hamatopeduncularia madhaviae* was described by K. Illa, U. Shameem, V. Serra, M. Melai, S. Mangam, C. K. Basuri, G. Petroni and L. Modeo based on a Holotype collected from Andhra Pradesh, off Visakhapatnam Coast, Bay of Bengal (17°47'N and 83°50"E). The species was found infecting the gill lamellae of the host species *Plicofollis dussumieri*. The type specimen has been deposited in the helminthological collections of the ZSI-CZRC. The species is named in honour of Professor Rokkam Madhavi for her contribution to helminthology.



Hamatopeduncularia madhaviae Illa, Shameem, Serra, Melai, Mangam, Basuri, Petroni and Modeo 2019

Class
RHABDITOPHORA

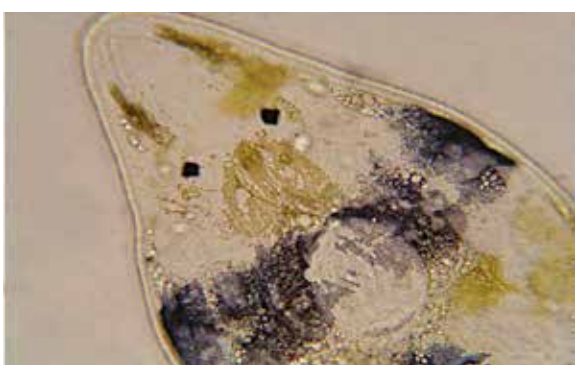
Order
RHABDOCOELA

Family
POLYCYSTIDIDAE

Genus
Paraustrorhynchus
Karling & Schockaert, 1977

Paraustrorhynchus smeetsae Lin, Reygel, Feng, Chen, Tessens, Steenkiste, Schockaert, Artois and Wang. *Zootaxa*, 4550 (3): 357-373, 2019

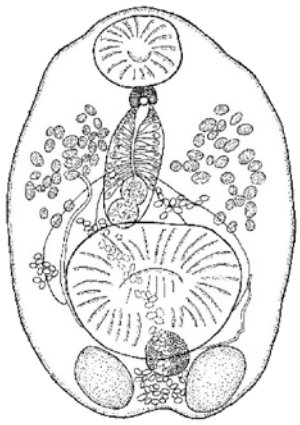
The species *Paraustrorhynchus smeetsae* was decribed by Y. Lin, P. Reygel, W. Feng, J. Chen, B. Tessens, Niels W.L. Van Steenkiste, Ernest R. Schockaert, Tom J. Artois and Antai Wang based on a Holotype and four Paratypes collected from Goa, AIT Beach (15°34'2.8"N and 73°44'28.5"E). The type specimens have been deposited in the collection of the Finnish Museum of Natural History and Research Group Zoology of Hasselt University. The species is named after Prof. Karen Smeets, in appreciation for her dedication towards the UHasselt research group.



Paraustrorhynchus smeetsae Lin, Reygel, Feng, Chen, Tessens, Steenkiste, Schockaert, Artois and Wang 2019

Paradiscogaster mannari Palsamy, Raju, Sanil and Rokkam. *Journal of Parasitic Diseases*, DOI: DOI 10.1007/s12639-019-01175-7, 2019

The speices *Paradiscogaster mannari* was described by R. K. Palsamy, S. Raju, N. K. Sanil and M. Rokkam based on a Holotype and one Paratype collected from Tamil Nadu, Gulf of Mannar. The species was found infecting the gut of the host species *Pomacanthus imperator* (Bloch) commonly called Emperor angel fish. The type specimens have been deposited in ZSIK.



Class
TREMATODA

Order
PLAGIORCHIIDA

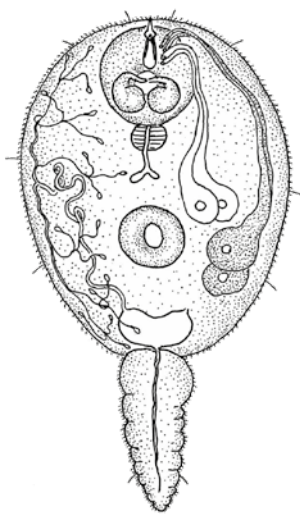
Family
FAUSTULIDAE

Genus
***Paradiscogaster* Yamaguti 1934**

Paradiscogaster mannari Palsamy, Raju, Sanil and Rokkam 2019

Cercaria sp. XXII Malabar Sanil and Janardanan. *Journal of Parasitic Diseases*, DOI: https://doi.org/10.1007/s12639-019-01100-y, 2019

The species *Cercaria sp. XXII Malabar* was described by N.K. Sanil and K.P. Janardanan based on a Holotype and one Paratype collected from Kerala, Kozhikode district, Kundayithode. The species was collected from its host *Bithynia (Digoniostoma) pulchella* (Benson, 1836). The type specimens have been deposited in the parasite collections of Parasitology Laboratory, Department of Zoology, University of Calicut. The species name refers to 'Malabar' from where it was recorded.`



Order
STRIGEATA

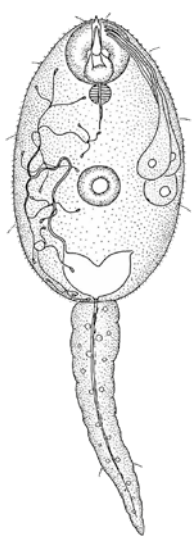
Family
FELLODISTOMATIDAE

Genus
***Cercaria* Muller 1773**

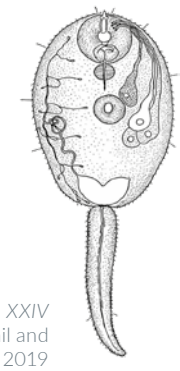
Cercaria sp. XXII Malabar Sanil and Janardanan 2019

Cercaria sp. XXIII Malabar Sanil and Janardanan. *Journal of Parasitic Diseases*, DOI: https://doi.org/10.1007/s12639-019-01100-y, 2019

The species *Cercaria sp. XXIII Malabar* was described by N.K. Sanil and K.P. Janardanan based on a Holotype and one Paratype collected from Kerala, Kozhikode district, Kundayithode. The species was collected from its host *Bithynia (Digoniostoma) pulchella* (Benson, 1836). The type specimens have been deposited in the parasite collections of Parasitology Laboratory, Department of Zoology, University of Calicut. The species name refers to 'Malabar' from where it was recorded.



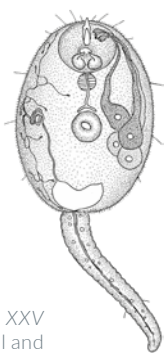
Cercaria sp. XXIII Malabar Sanil and Janardanan 2019



Cercaria sp. XXIV Malabar Sanil and Janardanan 2019

Cercaria sp. XXIV Malabar Sanil and Janardanan. *Journal of Parasitic Diseases*, DOI: https://doi.org/10.1007/s12639-019-01100-y, 2019

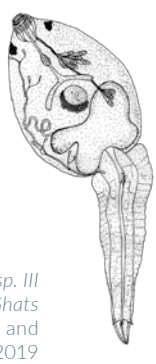
The species *Cercaria sp. XXIV Malabar* was described by N.K. Sanil and K.P. Janardanan based on a Holotype and one Paratype collected from Kerala, Kozhikode district, Kundayithode. The species was collected from the hepatopancreas of its host Bithynia (Digoniostoma) pulchella (Benson, 1836). The type specimens have been deposited in the parasite collections of Parasitology Laboratory, Department of Zoology, University of Calicut. The species name refers to 'Malabar' from where it was recorded.



Cercaria sp. XXV Malabar Sanil and Janardanan 2019

Cercaria sp. XXV Malabar Sanil and Janardanan. *Journal of Parasitic Diseases*, DOI: https://doi.org/10.1007/s12639-019-01100-y, 2019

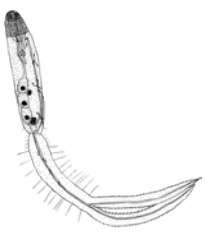
The species *Cercaria sp. XXV Malabar* was described by N.K. Sanil and K.P. Janardanan based on a Holotype and one Paratype collected from Kerala, Malappuram district, Nilambur. The species was collected from the hepatopancreas of its host *Bithynia (Digoniostoma) pulchella* (Benson, 1836). The type specimens have been deposited in the parasite collections of Parasitology Laboratory, Department of Zoology, University of Calicut. The species name refers to 'Malabar' from where it was recorded.



Cercaria sp. III Western Ghats Arusha and Prasadan 2019

Cercaria sp. III Western Ghats Arusha and Prasadan. *Journal of Parasitic Diseases*, DOI: https://doi.org/10.1007/s12639-019-01114-6, 2019

The species *Cercaria sp. III Western Ghats* was described by K. Arusha and P.K. Prasadan based on a Holotype collected from Kerala, Wayanad, Puthussery. The species was collected from its host *Digoniostoma pulchella* Benson, 1836. The type specimen has been deposited in the Helminth parasite collections, Ecological Parasitology and Tropical Biodiversity laboratory, Department of Zoology, Kannur University, Wayanad, Kerala. The species is named after the area from where it was first recorded.



Cercaria sp. IV Western Ghats Arusha and Prasadan 2019

Cercaria sp. IV Western Ghats Arusha and Prasadan. *Journal of Parasitic Diseases*, DOI: https://doi.org/10.1007/s12639-019-01114-6, 2019

The species *Cercaria sp. IV Western Ghats* was described by K. Arusha and P.K. Prasadan based on a Holotype collected from Kerala, Wayanad, Mananthavady. The species was collected from its host *Indoplanorbis exustus* (Deshayes, 1834). The type specimen has been deposited in the Helminth parasite collections, Ecological Parasitology and Tropical Biodiversity Laboratory, Department of Zoology, Kannur University, Wayanad, Kerala. The species is named after the area from where it was first recorded.

Class
TURBELLARIA

Order
POLYCLADIDA

Family
EURYLEPTIDAE

Genus
***Stylostomum* Lang, 1884**

Stylostomum mixtomaculatum Pitale and Apte 2019

Stylostomum mixtomaculatum Pitale and Apte. *Zootaxa*, 4652 (2): 317–339, 2019

The species *Stylostomum mixtomaculatum* was described by Reshma Pitale and Deepak Apte based on a Holotype and one Paratype collected from Andhra Pradesh, Undi and one Paratype collected from Gujarat, Mandvi, Ratnagiri. The type specimens have been deposited in the collections of the BNHS. The species name is derived from two words *mixtum* and *maculatum* meaning mixed maculae or blotches.

Family
PSEUDOCEROTIDAE

Genus
Pseudoceros
Lang, 1884

Pseudoceros agattiensis Dixit, Bayyana, Manjebrayakath, Saravanane and Sudhakar 2019

Pseudoceros agattiensis Dixit, Bayyana, Manjebrayakath, Saravanane and Sudhakar. *Zootaxa*, 4657 (2): 246–260, 2019

The species *Pseudoceros agattiensis* was described by S. Dixit, S. Bayyana, H. Manjebrayakath, N. Saravanane and M. Sudhakar based on a Holotype collected from Lakshadweep, Agatti Island, underneath rubble in intertidal area (10°52′72′′N and 72°12′12′′E). The type specimen has been deposited in the CMLRE, Kochi. The species name refers to the type locality.

Pseudoceros stellans Dixit, Bayyana, Manjebrayakath, Saravanane and Sudhakar. *Zootaxa*, 4657 (2): 246–260, 2019

The species *Pseudoceros stellans* was described by S. Dixit, S. Bayyana, H. Manjebrayakath, N. Saravanane and M. Sudhakar based on a Holotype collected from Lakshadweep, Agatti Island, 15 m depth (10°52′28′′N and 72°11′11′′E). The type specimen has been deposited in the CMLRE, Kochi. The species name is derived from the Latin word *stellans* which means starry or star studded for the stars like appearance on dorsum.

Pseudoceros stellans Dixit, Bayyana, Manjebrayakath, Saravanane and Sudhakar 2019

3.25. Cnidaria

Phylum
CNIDARIA

Class
MYXOSPOREA

Order
BIVALVULIDA

Family
MYXIDIIDAE

Genus
Myxidium
Buetschli, 1882

Myxidium tictoi Fariya, Kaur and Abidi 2019

Myxidium tictoi Fariya, Kaur and Abidi. *Journal of Parasitic Diseases*, DOI: https://doi.org/10.1007/s12639-019-01171-x, 2019

The species *Myxidium tictoi* was described by N. Fariya, H. Kaur and R. Abidi based on a Holotype and Paratypes collected from Uttar Pradesh, Lucknow. The species was found infecting the kidney of the host species *Puntius ticto*. The species name is derived from the name of host fish *Puntius ticto*.

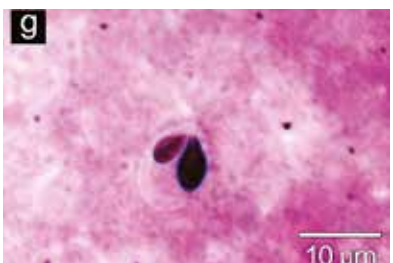
Family
MYXOBOLIDAE

Genus
Myxobolus
Butschli, 1882

Myxobolus chanosi Archana, Zacharia and Sanil. *Journal of Coastal Research*, 86: 128-133, 2019

The species *Myxobolus chanosi* was described by C. Archana, P.U. Zacharia and N.K. Sanil based on a Holotype collected from Kerala, Alappuzha. The new species was found infecting the posterior kidney of the host species *Chanos chanos* (Forsskål, 1775). The type specimen has been deposited in the parasite collections of the Marine Biodiversity Museum, ICAR-CMFRI The species is named after the specific name of the host.

Myxobolus chanosi Archana, Zacharia and Sanil 2019



Myxobolus himalayaensis Ahmed, Ahmad, Dar, Awas, Kaur Ganai and Shah 2019

Myxobolus himalayaensis Ahmed, Ahmad, Dar, Awas, Kaur Ganai and Shah. *Aquaculture Reports*, DOI: https://doi.org/10.1016/j.aqrep.2019.100192, 2019

The species *Myxobolus himalayaensis* was described by Imtiaz Ahmed, Ishtiyaq Ahmad, S. Ali Dar, Mohd Awas, Harpreet Kaur, Bashir Ahmad Ganai and B. Amin Shah based on a Holotype and Paratypes collected from Jammu and Kashmir, Poonch river (33°46′1.1532′′N and 74°5′32.8848′′E). The species was found infesting the gills of the host *Schizothorax richardsonii* (Gray). The type specimens have been deposited in the Fish Nutrition Research Laboratory, Department of Zoology, University of Kashmir, Hazratbal, Srinagar. The species is named after the type locality.

Family
ORTHOLINEIDAE

Genus
Ortholinea
Shulman, 1962

Ortholinea scatophagi Chandran, Zacharia and Sanil. *Parasitology International*, 75: 1-8, 2019

The species *Ortholinea scatophagi* was described by A. Chandran, P.U. Zacharia and N.K. Sanil based on a Holotype collected from Kerala, Cochin (9°59.001′N and 76°14.584′E). The species was found infecting the urinary bladder of the host species *Scatophagus argus* (Linnaeus, 1766). The type specimen has been deposited in the parasite collections of Marine Biodiversity Museum, CMFRI, India. The species is named after the generic name of the host.

Ortholinea scatophagi Chandran, Zacharia and Sanil 2019

3.26. Porifera

Phylum
PORIFERA

Class
DEMOSPONGIAE

Order
CLIONAIDA

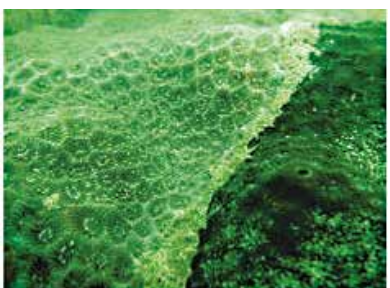
Family
CLIONAIDAE

Genus
***Cliona* Grant, 1826**

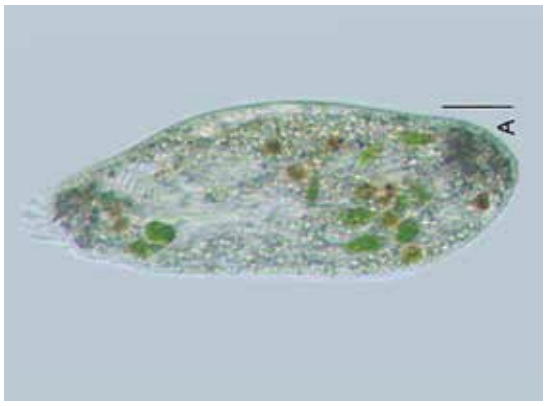
Cliona thomasi Mote, Schonberg, Samaai, Gupta and Ingole. *Systematics and Biodiversity*, 0(0): 1 –17, 2019

The species *Cliona thomasi* was described by S. Mote, Christine H. L. Schonberg, T. Samaai, V. Gupta and B. Ingole based on a Holotype collected from West India, Grande Island, 8 m (15°21'14.2"N and 73°45'57.8"E) and three Paratypes collected from different localities of Grande Island and Malvan Marine Sanctuary of West India. The type specimens have been deposited in National Institute of Oceanography Taxonomic Reference Centre, Goa and in the reference specimen collection of the Biological Oceanography Division of the National Institute of Oceanography. The species is named in honour of Dr. P. A. Thomas who contributed extensively to understand the sponges from India.

Cliona thomasi Mote, Schonberg, Samaai, Gupta and Ingole 2019



3.27. Ciliophra



Neogastrostyla aqua Kaur, Shashi, Negi and Kamra 2019

Phylum
CILIOPHORA

Class
SPIROTRICHEA

Order
SPORADOTRICHIDA

Family
OXYTRICHIDAE

Genus
***Neogastrostyla* Kaur, Negi and Kamra, 2019**

Neogastrostyla aqua Kaur, Shashi, Negi and Kamra. *European Journal of Protistology*, 68: 68–79, 2019 DOI: https://doi.org/10.1016/j.ejop.2019.01.002, 2019

The genus *Neogastrostyla* and the species *Neogastrostyla* aqua was described by H. Kaur, Shashi, R. K. Negi and K. Kamra based on a Holotype and Paratypes collected from Delhi, Yamuna River (28°42'29"N and 77°13'50"E). The type specimens have been deposited in BMNH, London, UK and ZSIK. The genus name is a combination of the Greek prefix Neo (new) and the genus-group name *Gastrostyla* Engelmann, 1862 (Berger 2008) indicating similarity to *Gastrostyla* and the species name *aqua* is derived from the word *aquae* meaning 'from freshwater' indicating the habitat from which the species has been isolated.

Lecanophryella indica Chatterjee, Dovgal, Nanajkar and Bogati. *Zootaxa*, 4612 (4): 494-500, 2019

The species *Lecanophryella indica* was described by T. Chatterjee, I. Dovgal, M. Nanajkar and K. Bogati based on a Holotype and Paratypes collected from Zuari Estuary, West Coast of India(15°24'09"N and 73°48'34"E). The type specimens have been deposited in the reference collection of the Council of Scientific and Industrial Research-National Institute of Oceanography Taxonomic Reference Centre, Goa (CSIR-NIO). The species name refers to India.

Class
SUCTOREA

Order
VERMIGEMMIDA

Family
LECANOPHRYIDAE

Genus
***Lecanophryella* Dovgal, 1985**

Lecanophryella indica Chatterjee, Dovgal, Nanajkar and Bogati 2019

3.28. Protozoa

Monocystis csabai Sarkar, Kundu and Bandyopadhyay. *Records of Zoological Survey of India*, 119 (4): 1-4, 2019

The species *Monocystis csabai* was described by S. Sarkar, B. Kundu and P.K. Bandyopadhyay based on a Holotype and one Paratype collected from West Bengal, South 24 Parganas, Bakkhali (Sundarban) region (22.1352°N and 88.4016°E). The new species was found infecting the seminal vesicles of its host species *Eutyphoeus orientalis*. The type specimens have been deposited in the Parasitology Laboratory, Department of Zoology, University of Kalyani, West Bengal and in the Harold W Manter, Laboratory of Parasitology, Systematic Research Collections, University of Nebraska State Museum, Nebraska, USA. The species is named after renowned parasitologist Prof. Csaba Szekely of Institute for Veterinary Medical Research, Centre for Agriculture Research, Hungarian Academy of Sciences, Budapest for his outstanding contribution in the field of fish parasitology.

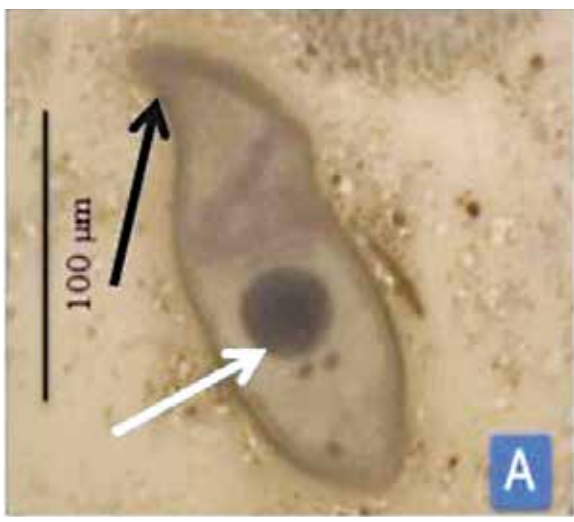
Phylum
APICOMPLEXA

Class
SPOROZOA

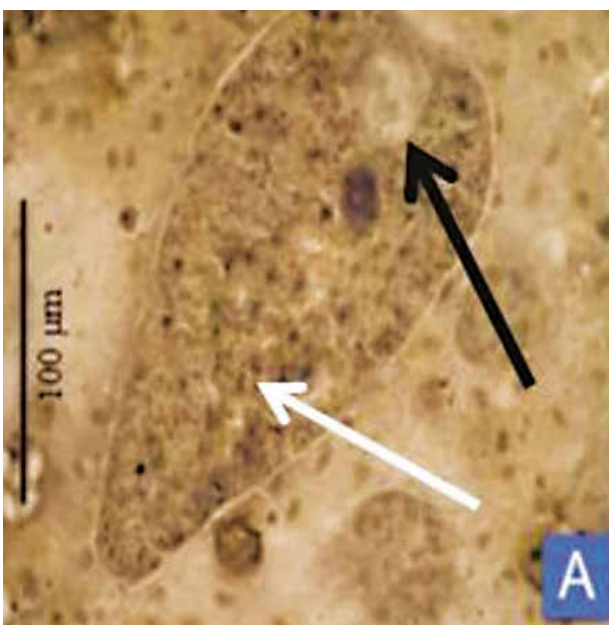
Order
EUGREGARINIDA

Family
MONOCYSTIDAE

Genus
***Monocystis* Stein, 1848**



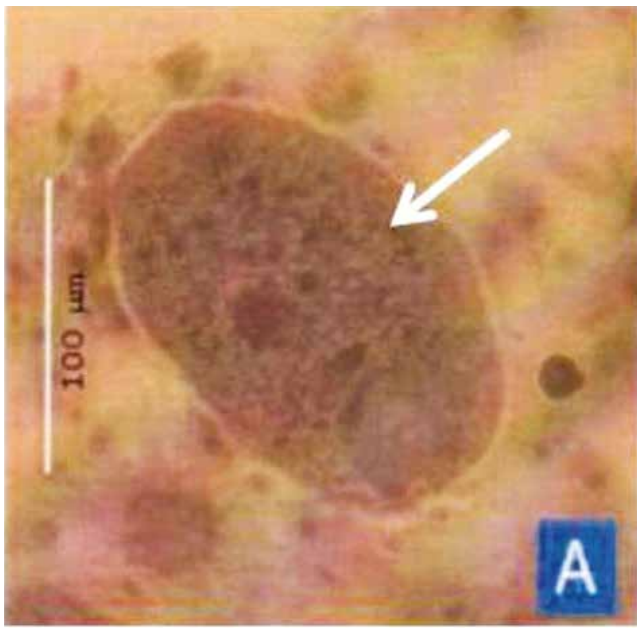
Monocystis csabai Sarkar, Kundu and Bandyopadhyay 2019



Monocystis eutyphae Sarkar, Kundu and Bandyopadhyay 2019

Monocystis eutyphae Sarkar, Kundu and Bandyopadhyay. *Records of Zoological Survey of India*, 119 (4): 1-4, 2019

The species *Monocystis eutyphae* was described by S. Sarkar, B. Kundu and P.K. Bandyopadhyay based on a Holotype and one Paratype collected from West Bengal, North 24 Parganas, Ashoknagar (23°15'2''N and 89°5'E). The new species was found infecting the seminal vesicles of its host species *Eutyphoeus orientalis*. The type specimens have been deposited in the Parasitology Laboratory, Department of Zoology, University of Kalyani, West Bengal and in the Harold W Manter, Laboratory of Parasitology, Systematic Research Collections, University of Nebraska State Museum, Nebraska, USA. The species name is derived from the generic name of the host species.



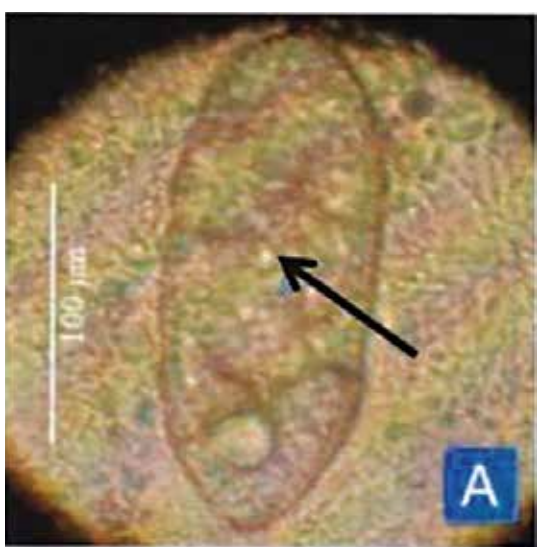
Monocystis indicus Sarkar, Kundu and Bandyopadhyay. *Records of Zoological Survey of India*, 119 (4): 1-4, 2019

The species *Monocystis indicus* was described by S. Sarkar, B. Kundu and P.K. Bandyopadhyay based on a Holotype and one Paratype collected from West Bengal, North 24 Parganas, Ashoknagar (23°15'2''N and 89°5'E). The new species was found infecting the seminal vesicles of its host species *Eutyphoeus orientalis*. The type specimens have been deposited in the Parasitology Laboratory, Department of Zoology, University of Kalyani, West Bengal and in the Harold W Manter, Laboratory of Parasitology, Systematic Research Collections, University of Nebraska State Museum, Nebraska, USA. The species is named after India.

Monocystis indicus Sarkar, Kundu and Bandyopadhyay 2019

Monocystis satoi Sarkar, Kundu and Bandyopadhyay. *Records of Zoological Survey of India*, 119 (4): 1-4, 2019

The species *Monocystis satoi* was described by S. Sarkar, B. Kundu and P.K. Bandyopadhyay based on a Holotype and one Paratype collected from West Bengal, North 24 Parganas, Ashoknagar (23°15'2''N and 89°5'E). The new species was found infecting the seminal vesicles of its host species *Eutyphoeus orientalis*. The type specimens have been deposited in the Parasitology Laboratory, Department of Zoology, University of Kalyani, West Bengal and in the Harold W Manter, Laboratory of Parasitology, Systematic Research Collections, University of Nebraska State Museum, Nebraska, USA. The species is named after the name of renowned parasitologist Prof. Hiroshi Sato, Joint Faculty of Veterinary Medicine of Yamaguchi University, Yamaguchi, Japan for his outstanding contribution in the field of Parasitology.



Monocystis satoi, Sarkar Kundu and Bandyopadhyay 2019

NEW RECORDS

04

ANIMAL
DISCOVERIES
NEW | 2019
SPECIES
NEW
RECORDS

4.1. Pisces

Ophichthus machidai McCosker, Ide et Endo, 2012

The species earlier known from Japan and Taiwan; has been reported for the first time from India based on a collection made from West Bengal, Digha, Shankarpur fishing harbor. The specimens have been deposited in the ZSI-EBRC. It has been published by A. Mohapatra, D. Ray, S. R. Mohanty and S. S. Mishra in the journal: *Acta Ichthyologica et Piswcatoria*, 49 (1): 49–51, 2019.

Phylum
CHORDATA

Class
ACTINOPTERYGII

Order
ANGUILLIFORMES

Family
OPHICHTHIDAE

Genus
Ophichthus
J. N. Ahl, 1789

Ophichthus machidai
McCosker, Ide et Endo, 2012

Cypselurus opisthopus (Bleeker, 1865)

The species *Cypselurus opisthopus* earlier known from eastern Indian and western Pacific oceans from Bay of Bengal to Okinawa and Solomon Islands, Sri Lanka, Indonesia and Philippines; has been reported for the first time from India based on a collection made from Kerala, Vizhinjam landing Centre, 30 to 40 km south of Vizhinjam (8.3932°N and 77.0046°E). The specimen has been deposited in ICAR – National Bureau of Fish Genetic Resources, Lucknow. It has been published by T. T. K. Jayakumar, I. B. Shakhovskoy, N. P. K. Prasoon, A. Kathirvelpandian, T. T. Ajith Kumar, and K. K. Lal in the journal: *Journal of Ichthyology*, 59 (5): 697–706, 2019.

Order
BELONIFORMES

Family
EXOCOETIDAE

Genus
Cypselurus
Swainson, 1838

Cypselurus opisthopus
(Bleeker, 1865)

Order
PERCIFORMES

Family
ARIOMMATIDAE

Genus
***Ariomma* Jordan and Snyder, 1904**

Ariomma brevimanum (Klunzinger, 1884)

The species *Ariomma brevimanum* earlier known from Red Sea, Indonesia to Japan and Hawaii; has been reported for the first time from India based on a collection made from Kerala, Cochin, Cochin Fisheries Harbour (09°56′327″N and 76°15′764″E). The specimens have been deposited in Marine Biodiversity Referral Museum of ICAR-Central Marine Fisheries Research Institute, Cochin, Kerala. It has been published by S. K. Roul, R. Kumar, S. Rahangdale, S. K. Pradhan, S. Sukumaran and P. Rohit in the journal: *Thalassas: An International Journal of Marine Sciences*, DOI: https://doi.org/10.1007/s41208-019-00151-5, 2019.

Ariomma brevimanum (Klunzinger, 1884)

Order
SCORPAENIFORMES

Family
PLECTROGENIIDAE

Genus
***Bembradium* Gilbert, 1905**

Bembradium magnoculum Kishimoto, Kawai, Tashiro et Aungtonya, 2019

The species *Bembradium magnoculum* earlier known from Thailand, Phuket; has been reported for the first time from India based on a collection made from Andaman-Nicobar Ridge, 38.5 km north of Car Nicobar Island (09°36.219'N and 092°43.739'N). The specimen has been deposited in the CMLRE Referral Centre. It has been published by K.V. Aneesh Kumar, M. Sileesh, M. Rajeeshkumar, K. Bineesh, M. Hashim, N. Saravanane, M. Sudhakar and R. Fricke in the journal: *Acta Ichthyologica et Piscatoria*, 49 (3): 269-274, 2019.

Bembradium magnoculum Kishimoto, Kawai, Tashiro et Aungtonya, 2019

Class
CONDRICHTHYES

Order
TORPEDINIFORMES

Family
TORPEDINIDAE

Genus
***Torpedo* Houttuyn, 1764**

Torpedo polleni (Bleeker, 1865)

The species *Torpedo polleni* earlier known from Western Indian Ocean: from South Africa to Zanzibar and the Kenyan coast; has been reported for the first time from India based on a collection made from Visakhapatnam, Fisheries Harbor (17°01'N to 19°22'N and 83°23'E to 85°14'E). It has been published by V. Ravali, V. A. I. Deepti, S. Jha and K. Sujatha in the journal: *Indian Journal of Geo Marine Sciences*, 48 (09): 1338-1343, 2019.

Torpedo polleni (Bleeker, 1865)

4.2. Echinodermata

Phylum
ECHINODERMATA

Class
ASTEROIDEA

Order
VALVATIDA

Family
GONIASTERIDAE

Genus
***Cenometra* A. H. Clark, 1911**

Cenometra bella (Hartlaub, 1890)

The species *Cenometra bella* earlier known from Bay of Bengal to South Pacific Islands; has been reported for the first time from India based on a collection made from different localities of Lakshadweep: Kadamat, Kalpeni and Kavaratti. The specimens have been deposited in the NZC ZSIK. It has been published by D.R.K. Sastry, N. Marimuthu and R. Rajan in the journal: *Records of Zoological Survey of India*, 119 (4): 348-372, 2019.

Genus
***Fromia* Gray, 1840**

Fromia nodosa A. M. Clark, 1967

Fromia nodosa A. M. Clark, 1967

The species *Fromia nodosa* earlier known from Islands of Western Indian Ocean, Maldives, Sri Lanka and Sumatra; has been reported for the first time from India based on a collection made from different localities of Lakshadweep: Agatti Islands South, Minicoy North and Kavaratti. The specimens have been deposited in the NZC ZSIK. It has been published by D.R.K. Sastry, N. Marimuthu and R. Rajan in the journal: *Records of Zoological Survey of India*, 119 (4): 348-372, 2019.

Fromia pacifica H. L. Clark

The species *Fromia pacifica* earlier known from Philippine Islands and South Pacific Islands; has been reported for the first time from India based on a collection made from different localities of Lakshadweep: Agatti Islands, Agatti East, Kadamat Island, Bangaram West and Perumal par North. The specimens have been deposited in the NZC ZSIK. It has been published by D.R.K. Sastry, N. Marimuthu and R. Rajan in the journal: *Records of Zoological Survey of India*, 119 (4): 348-372, 2019.

Fromia pacifica H. L. Clark

Class
OPHIUROIDEA

Order
AMPHILEPIDIDA

Family
OPHIOTRICHIDAE

Genus
***Ophiothrix* Muller and Troschel, 1840**

Ophiothrix (Ophiothrix) marginata Koehler

The species *Ophiothrix (Ophiothrix) marginata* earlier known from East Indonesia: Aru Islands; has been reported for the first time from India based on a collection made from Lakshadweep: Kavaratti Island. The specimens have been deposited in the NZC ZSIK. It has been published by D.R.K. Sastry, N. Marimuthu and R. Rajan in the journal: *Records of Zoological Survey of India*, 119 (4): 348-372, 2019.

Ophiothrix (Ophiothrix) marginata Koehler

4.3. Mollusca

Phylum
MOLLUSCA

Class
BIVALVIA

Order
ARCOIDA

Family
ARCIDAE

Genus
***Anadara* Gray, 1847**

Anadara consociata
(E.A. Smith, 1885)

Anadara consociata (E.A. Smith, 1885)

The species *Anadara consociata* earlier known from Arafura Sea (Northern Australia), China Sea, and Vietnam; has been reported for the first time from India based on a collection made from Tamil Nadu, Rameswaram (09°16.867'N and 079°18.879'E). The specimens have been deposited in Zoological Survey of India, Marine Aquarium and Regional Centre (ZSI-MARC). It has been published by P. C. Tudu, P. Yennawar and A. Mohapatra in the journal: *Records of Zoological Survey of India*, 119 (1): 34-48, 2019.

Anadara troscheli
(Dunker, 1882)

Anadara troscheli (Dunker, 1882)

The species *Anadara troscheli* earlier known from Japan, South China Sea, Vietnam, Thailand; has been reported for the first time from India based on a collection made from Odisha, Gopalpur (19°15.450'N and 084°54.557'E) and (19°15.449'N and 084°54.559'E), Andhra Pradesh, Kakinada (16°54.492'N and 082° 14.370'E), Pulicat Lake (13°25'27"N and 80°19'26"E). The specimens have been deposited in ZSI-MARC. It has been published by P. C. Tudu, P. Yennawar and A. Mohapatra in the journal: *Records of Zoological Survey of India*, 119 (1): 34-48, 2019.

Order
MYTILIDA

Family
MYTILIDAE

Genus
Mytella
Soot-Ryen, 1955

Mytella strigata
(Hanley, 1843)

Mytella strigata (Hanley, 1843)

The species *Mytella strigata* earlier known from Pacific and Atlantic coasts of tropical America, from the Gulf of California to Ecuador in the eastern Pacific, in the Caribbean and Atlantic from Florida to Argentina, Singapore, Philippines and Thailand; has been reported for the first time from India based on a collection made from Kerala, Cochin backwater, Ezhupunna region (9°50′43.9″N and 76°17′17.2″E) and Ernakulam, the School of Marine Sciences boat jetty (9°57′51.67″N and 76°16′56.05″E). The specimens have been deposited in the Museum of the Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, Cochin. It has been published by P. R. Jayachandran, B. P. Aneesh, P. G. Oliver, J. Philomina, M. Jima, K. Harikrishnan and S. B. Nandan in the journal: *BioInvasions Records*, 8 (4): 828–837, 2019.

Aplysia juliana Quoy & Gaimard, 1832

The species *Aplysia juliana* earlier known from Indonesia, Australia, New Zealand, North Atlantic Ocean, South Africa, Caribbean Sea, Cuba, Gulf of Mexico and Venezuela; has been reported for the first time from India based on a collection made from Gulf of Mannar Marine Biosphere Reserve, Manouli Island, 8 m depth (09°10'52.2N and 79°08'44.8E). The specimen has been deposited in the NZC ZSI-MARC. It has been published by J.S. Yogesh Kumar, C. Venkatraman, S. Shrinivaasu and C. Raghunathan in the journal: *Indian Journal of Geo Marine Sciences*, 48 (10): 1508-1515, 2019.

Class
GASTROPODA

Order
ANASPIDEA

Family
APLYSIIDAE

Genus
***Aplysia* Linnaeus, 1767**

Aplysia juliana Quoy & Gaimard, 1832

Nerita nigrita Roding, 1798

The species *Nerita nigrita* earlier known from Thailand, Indonesia, Sri Lanka, Maldives and Madagascar; has been reported for the first time from India based on a collection made from different localities of Andamans such as, Rangachang, Burmanallah, Kodiyaghat and Chidiyatapu and Science Centre, Brookshabad (south of Carbyn's Cove). The specimens have been deposited under the NZC of the ZSI-ANRC, Port Blair. It has been published by V. Pandey, G. Thiruchitrambalam and K. Satyam in the journal: *Current Science*, 116 (5): 828-831, 2019.

Order
ARCHAEOGASTRPODA

Family
NERITIDAE

Genus
***Nerita* Linnaeus, 1758**

Nerita nigrita Roding, 1798

Pseudoliotia henjamensis (Melvill & Standen, 1903)

The species *Pseudoliotia henjamensis* earlier known from South East Gulf and Red Sea; has been reported for the first time from India based on a collection made from Gujarat, Pirotan Island, Gulf of Kachchh, Marine National Park, Station No. 1 (22°35'54.79''N and 69°57'47.88''E). The specimen has been deposited in the NZC ZSI. It has been published by A. Mukhopadhyay, B. Tripathy, S. Sajan and A. Ghosh in the journal: *Strombus*, 25 (1-2): 5-9, 2019.

Order
LITTORINIMORPHA

Family
VITRINELLIDAE

Genus
***Pseudoliotia* T ate, 1898**

Pseudoliotia henjamensis (Melvill & Standen, 1903)

Order
NUDIBRANCHIA

Family
CHROMODORIDIDAE

Genus
Goniobranchus
(Pease, 1866)

Goniobranchus cavae (Eliot, 1904)

Goniobranchus cavae (Eliot, 1904)

The species *Goniobranchus cavae* earlier known from East Africa and Tanzania; has been reported for the first time from India based on a collection made from Gulf of Mannar Marine Biosphere Reserve, Vembar, 9 m depth (09°02'16.1N and 78°22'45.4E). The specimen has been deposited in the NZC of ZSI-MARC. It has been published by J.S. Yogesh Kumar, C. Venkatraman, S. Shrinivaasu and C. Raghunathan in the journal: *Indian Journal of Geo Marine Sciences*, 48 (10): 1508-1515, 2019.

Family
DENDRODORIDIDAE

Genus
Dendrodoris
Ehrenberg, 1831

Dendrodoris albobrunnea Allan, 1933

Dendrodoris albobrunnea Allan, 1933

The species *Dendrodoris albobrunnea* earlier known from Australia; has been reported for the first time from India based on a collection made from Gulf of Mannar Marine Biosphere Reserve, Hare island, 8 m depth (09°08'45.5N and 79°05'44.2E). The specimen has been deposited in the NZC ZSI-MARC. It has been published by J.S. Yogesh Kumar, C. Venkatraman, S. Shrinivaasu and C. Raghunathan in the journal: *Indian Journal of Geo Marine Sciences*, 48 (10): 1508-1515, 2019.

Thecacera pacifica (Bergh, 1884)

Family
FACELINIDAE

Genus
Pteraeolidia **Bergh, 1875**

Thecacera pacifica (Bergh, 1884)

The species *Thecacera pacifica* earlier known from African coast, Indonesia and Vanuatu; has been reported for the first time from India based on a collection made from Gulf of Mannar Marine Biosphere Reserve, Upputhanni island, 19 m depth (09°01'51.6N and 78°33'19.5E). The specimen has been deposited in the NZC ZSI-MARC. It has been published by J.S. Yogesh Kumar, C. Venkatraman, S. Shrinivaasu and C. Raghunathan in the journal: *Indian Journal of Geo Marine Sciences*, 48 (10): 1508-1515, 2019.

Family
PLAKOBRANCHIDAE

Genus
***Elysia* Risso, 1818**

Elysia nealae Ostergaard, 1955

The species *Elysia nealae* earlier known from Hawaii; has been reported for the first time from India based on a collection made from Gulf of Mannar Marine Biosphere Reserve, Nallathanni island, 6 m depth (09°06'11.9N and 78°34'08.0E). The specimen has been deposited in the NZC ZSI-MARC. It has been published by J.S. Yogesh Kumar, C. Venkatraman, S. Shrinivaasu and C. Raghunathan in the journal: *Indian Journal of Geo Marine Sciences*, 48 (10): 1508-1515, 2019.

Elysia nealae Ostergaard, 1955

Order
STYLOMMATOPHORA

Family
ARIOPHANTIDAE

Genus
***Oxytesta* Zilch, 1956**

Oxytesta shanensis (Godwin-Austen, 1883)

The species *Oxytesta shanensis* earlier known from Upper Salween (Shan) River of Myanmar; has been reported for the first time from India based on a collection made from Arunachal Pradesh, Changlang district, Namdapha Tiger Reserve, Hornbill (27.53°N and 96.43°E) and Arunachal Pradesh, Changlang district, Namdapha Tiger Reserve, Deban (27.48°N and 96.38°E). The specimens have been deposited in NZC in Malacology Division of ZSIK. It has been published by S. Sajan, B. Tripathy and K. Chandra in the journal: *Journal of the BNHS*, Vol. 116. DOI: 10.17087/jbnhs/2019/v116/122331, 2019.

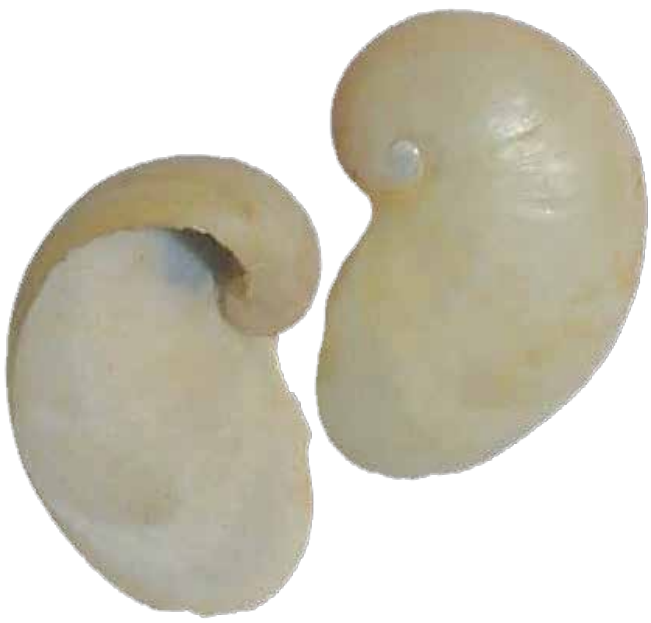
Oxytesta shanensis (Godwin-Austen, 1883)

Family
HELICARIONIDAE

Genus
Austenia
G. Nevill, 1817

Austenia resplendens (Nevill, 1877)

The species *Austenia resplendens* earlier known from Upper Burma (Myanmar): Sawadi and Bhamo; has been reported for the first time from India based on a collection made from Mizoram, Mamit district, Dampa Tiger Reserve, Damparengpui, 671 m (23.69461 N and 92.40825 E). The specimen has been deposited in the NZC ZSI. It has been published by S. Sajan, Deepti, A. Chakrabarty, S. Kushwaha, L.K. Sharma, B. Tripathy and K. Chandra in the journal: *Records of Zoological Survey of India*, 119 (4): 492-495, 2019.



Austenia resplendens (Nevill, 1877)

Order
TROCHIDA

Family
LIOTIIDAE

Genus
Cyclostrema
Marryat, 1818

Cyclostrema ocrinium Melvill & Standen, 1901

The species *Cyclostrema ocrinium* earlier known from North-West Gulf, South-East Gulf, Gulf of Oman and Southern coast of Iran; has been reported for the first time from India based on a collection made from Gujarat, Pirotan Island, Gulf of Kachchh, Marine National Park, Station No. 1 (22°35'54.79''N and 69°57'47.88''E) and Station No. 2 (22°35'48.79''N and 69°57'43.45''E). The specimens have been deposited in the NZC ZSI. It has been published by S. Sajan, Deepti, A. Chakrabarty, S. Kushwaha, L.K. Sharma, B. Tripathy and K. Chandra in the journal: *Records of Zoological Survey of India*, 119 (4): 492-495, 2019.

Cyclostrema ocrinium Melvill & Standen, 1901

4.4. Coleoptera

Phylum
ARTHROPODA

Class
INSECTA

Order
COLEOPTERA

Family
COCCINELLIDAE

Genus
Afissa

Afissa ampliata (Pang and Mao, 1979)

The species *Afissa ampliata* earlier known from China; has been reported for the first time from India based on a collection made from West Bengal. The specimen has been deposited in NBAIR, Bangalore. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Afissa ampliata (Pang and Mao, 1979)

Cryptogonus hainanensis Pang and Mao, 1979

Genus
***Cryptogonus* Mulsant, 1850**

Cryptogonus hainanensis Pang and Mao, 1979

The species *Cryptogonus hainanensis* earlier known from China; has been reported for the first time from India based on a collection made from Tripura. The specimen has been deposited in NBAIR, Bangalore. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Halyzia nepalensis Canepari 2003

Genus
***Diekeana* Tomaszewska and Szawaryn, 2015**

Diekeana glochinosa (Pang and Mao)

The species *Diekeana glochinosa* earlier known from China (Yunnan Province); has been reported for the first time from India based on a collection made from Nagaland. The specimen has been deposited in NBAIR, Bangalore. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Diekeana glochinosa (Pang and Mao)

Genus
***Halyzia* Mulsant, 1846**

Halyzia nepalensis Canepari 2003

The species *Halyzia nepalensis* earlier known from Myanmar and Nepal; has been reported for the first time from India based on a collection made from Arunachal Pradesh. The specimen has been deposited in ZSIK. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Genus
***Henosepilachna* Li & Cook, 1961**

Henosepilachna kathmanduensis Miyatake

The species *Henosepilachna kathmanduensis* earlier known from Nepal; has been reported for the first time from India based on a collection made from Assam, Jorhat. The specimens have been deposited in National Research Centre for Banana, Trichy. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Henosepilachna kathmanduensis Miyatake

Henosepilachna verriculata Pang and Mao, 1979

Henosepilachna verriculata Pang and Mao, 1979

The species *Henosepilachna verriculata* earlier known from China; has been reported for the first time from India based on a collection made from Manipur. The specimen has been deposited in NBAIR, Bangalore. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Genus
***Oenopia* Mulsant, 1850**

Oenopia chinensis (Weise, 1912)

The species *Oenopia chinensis* earlier known from China; has been reported for the first time from India based on a collection made from Arunachal Pradesh and Meghalaya. The specimen has been deposited in NBAIR, Bangalore. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Oenopia chinensis (Weise, 1912)

Genus
***Prototheа* Weise, 1898**

Prototheа decemguttata (Hoang, 1983)

Prototheа decemguttata (Hoang, 1983)

The species *Prototheа decemguttata* earlier known from Vietnam; has been reported for the first time from India based on a collection made from Meghalaya, Pynursla. The specimen has been deposited in ZSIK. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Genus
***Scymnus* Kugelann, 1794**

Scymnus (Pullus) utilis Hoang 1982

The species *Scymnus (Pullus) utilis* earlier known from Vietnam; has been reported for the first time from India based on a collection made from Karnataka. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Scymnus (Pullus) utilis Hoang 1982

Serangium clauseni (Chapin)

Genus
***Serangium* Blackburn (1889)**

Serangium clauseni (Chapin)

The species *Serangium clauseni* earlier known from China; has been reported for the first time from India based on a collection made from Assam, Jorhat. The specimens have been deposited in NBAIR, Bangalore. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Genus
***Stethorus* Weise, 1885**

Stethorus gangliiformis Li, Chen and Ren 2013

The species *Stethorus gangliiformis* earlier known from China and Pakistan; has been reported for the first time from India based on a collection made from Jammu and Kashmir, Srinagar. The specimen has been deposited in NBAIR, Bangalore. It has been published by Poorani Janakiraman and Rojeet Thangjam in the journal: *Oriental Insects*, 53 (4): 547–565, 2019.

Family
ISCHALIIDAE

Genus
***Ischalia* Pascoe, 1860**

Ischalia (s. str.) martensi Paulus, 1971

The species *Ischalia* (s. str.) *martensi* earlier known from Nepal; has been recorded for the first time from India based on a collection made from Arunachal Pradesh, Eaglenest Wildlife Sanctuary (27°06′20.82″N and 92°25′38.10″E). The specimen has been deposited in Insect Centre, Moscow, Russia. It has been published by S. V. Kazantsev and D. Telnov in the journal: *Zootaxa*, 4555 (3): 441–450, 2019.

Ischalia (s. str.) *martensi* Paulus, 1971

Family
NITIDULIDAE

Genus
***Glischrochilus* Reitter, 1873**

Glischrochilus pulcher Jelinek, 1975

The species *Glischrochilus pulcher* earlier known from Nepal and China; has been reported for the first time from India based on a collection made from Uttarakhand: 30 km North of Bageshwar, SE of Dhakuri village and West Bengal: Darjeeling District, Tonglu. The specimens have been deposited in National Museum, Prague, Czech Republic. It has been published by Josef Jelinek and Jiri Hajek in the journal: *Acta Entomologica*, 58 (2): 567-576, 2018.

Family
SCARABAEIDAE

Genus
***Maladera* Mulsant & Rey, 1871**

Maladera bhutanensis (Frey, 1975)

The species *Maladera bhutanensis* earlier known from Bhutan; has been recorded for the first time from India based on a collection made from Mizoram, Kolasib, 888 m (24°13′N and 92°40′E). The specimens have been deposited in NBAIR, Bangalore. It has been published by K. Sreedevi, S. Ranasinghe, S. Fabrizi and D. Ahrens in the journal: *European Journal of Taxonomy*, 567: 1–26. DOI: https://doi.org/10.5852/ejt.2019.567, 2019.

4.5.
Diptera

Phylum
ARTHROPODA

Class
INSECTA

Order
DIPTERA

Family
CALLIPHORIDAE

Genus
***Chrysomya* Robineau-Desvoidy, 1830**

Chrysomya putoria (Wiedemann, 1830)

The species *Chrysomya putoria* earlier known from Saudi Arabia, Iran, Africa, south of Sahara (including western Africa, northwest to Senegal and Gambia, northeast to Sudan, Eritrea and Ethiopia, and south to South Africa), and the Neotropical region; has been reported for the first time from India based on a collection made from Himachal Pradesh, Jubbal, 2000 m (31.109°N and 77.662°E). The specimens have been deposited at Punjabi University Patiala Diptera collection. It has been published by Meenakshi Bharti in the journal: *Journal of Threatened Taxa*, 11 (1): 13188-13190, 2019.

Chrysomya putoria (Wiedemann, 1830)

Chrysomya thanomthini Kurahashi and Tumrasvin, 1977

The species *Chrysomya thanomthini* earlier known from Nepal, Myanmar, Thailand, Malaysia (peninsular and Borneo), and southern China (Yunnan); has been reported for the first time from India based on a collection made from Himachal Pradesh, Jubbal, 2000 m (31.109°N and 77.662°E). The specimens have been deposited at Punjabi University Patiala Diptera collection. It has been published by Meenakshi Bharti in the journal: *Journal of Threatened Taxa*, 11 (1): 13188-13190, 2019.

Chrysomya thanomthini Kurahashi and Tumrasvin, 1977

Family
SARCOPHAGIDAE

Genus
***Sarcosolomonia* Baranov, 1938**

Sarcosolomonia (s. str.) *shinonagai* Kano & Sooksri, 1977

The species *Sarcosolomonia (s. str.) shinonagai* earlier known from Thailand and Cambodia; has been reported for the first time from India based on a collection made from Karnataka, Bangalore, Bangalore University campus, (12°08′N and 77°37′E). The specimen has been deposited in the collections of the Czech University of Life Sciences, Prague. It has been published by Miroslav Bartak, Liudmyla Khrokalo, Yury Verves in the journal: *Journal of Asia-Pacific Entomology*, 22: 44-55. DOI: https://doi.org/10.1016/j.aspen.2018.11.011, 2019.

Family
SYRPHIDAE

Genus
***Spilomyia* Meigen, 1803**

Spilomyia manicata (Rondani,1865)

The species *Spilomyia manicata* earlier known from Afghanistan, Austria, Balkan Peninsula, Belgium, Croatia, Czech Republic, Denmark, France, Germany, Greece, Italy, Macedonia, the Netherlands, Norway, Poland, Rumania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland and former Yugoslavia; has been reported for the first time from India based on a collection made from Jammu and Kashmir, Srinagar, 1800 m (34.1456°N and 74.8775°E) and Himachal Pradesh, Kullu, Nagar Castle, 1887 m (32.1144°N and 77.1747°E). The specimens have been deposited in CNC and ZSIK. It has been published by A.A. Wachkoo, J.V. Steenis, Z.A. Rather, J. Sengupta, D. Banerjee in the journal: *Turkish Journal of Zoology*, 43: 239-242. DOI: 10.3906/zoo-1811-27, 2019.

4.6.
Ephemeroptera

Phylum
ARTHROPODA

Class
INSECTA

Order
EPHEMEROPTERA

Family
EPHEMERELLIDAE

Genus
***Cincticostella* Allen, 1971**

Cincticostella insolta (Allen, 1971)

The species *Cincticostella insolta* earlier known from Northern Thailand, mainland China and Nepal; has been reported for the first time from India based on a collection made from Uttarakhand, Almora District, in Dwarahat forest, 10.1 km North-Eastwards of the Chaukhutia town, 1200 m (29.925608N and 79.445983E) and Nainital district, Garkkhetgatkhera River, opposite to the Duniakhan pass, 1350 m (29.450797N and 79.374053E). It has been published by A.V. Martynov, C. Selvakumar, K.A. Subramanian, K.G. Sivaramakrishnan, K. Chandra, D.M. Palatov, B. Sinha and L.M. Jacobus in the journal: *Zootaxa*, 4551 (2): 147–179, 2019.

Cincticostella insolta (Allen, 1971)

Cincticostella bifurcata Xie, Jia, Chen, Jacobus & Zhou, 2009

The species *Cincticostella bifurcata* earlier known from mainland China; has been reported for the first time from India based on a collection made from Arunachal Pradesh, Lower Subansiri District, Talle Valley, 2370 m (27.537201N and 93.959883E). It has been published by A.V. Martynov, C. Selvakumar, K.A. Subramanian, K.G. Sivaramakrishnan, K. Chandra, D.M. Palatov, B. Sinha and L.M. Jacobus in the journal: *Zootaxa*, 4551 (2): 147–179, 2019.

Cincticostella bifurcata Xie, Jia, Chen, Jacobus & Zhou, 2009

Cincticostella braaschi Jacobus & McCafferty, 2008

The species *Cincticostella braaschi* earlier known from mainland Nepal; has been reported for the first time from India based on a collection made from Arunachal Pradesh, Lower Subansiri District, Talle Valley, 2370 m (27.537201N and 93.959883E). It has been published by in the journal: A.V. Martynov, C. Selvakumar, K.A. Subramanian, K.G. Sivaramakrishnan, K. Chandra, D.M. Palatov, B. Sinha and L.M. Jacobus in the journal: *Zootaxa*, 4551 (2): 147–179, 2019.

Cincticostella braaschi Jacobus & McCafferty, 2008

Potamanthellus caenoides Ulmer, 1939

The species *Potamanthellus caenoides* earlier known from Indonesia, Malaysia, Philippines, Thailand and Vietnam; has been reported for the first time from India based on a collection made from Kerala and Tamil Nadu, Chalakudy River, Valparai and Sholayar (10°18'38.8''N and 076°56'45.1''E). It has been published by O. A. Banazair and G. Christopher in the journal: *International Journal of Aquatic Biology*, 7 (1): 35-37, 2019.

Potamanthellus caenoides Ulmer, 1939

Genus
Potamanthellus
Lestage, 1930

4.7. Hemiptera

Phylum
ARTHROPODA

Class
INSECTA

Order
HEMIPTERA

Family
ALEYRODIDAE

Genus
Dialeurotrachelus
Takahashi, 1942

Dialeurotrachelus cambodiensis Takahashi, 1942

The species *Dialeurotrachelus cambodiensis* earlier known from Thailand; has been reported for the first time from India based on a collection made from Andaman and Nicobar Islands, North Andaman, Diglipur, Kalra Junction and Nicobar Islands, Chingam Basti. The specimens have been deposited in the NZC, ZSIK and IARI. It has been published by A.K. Dubey in the journal: *Zootaxa*, 4695 (6): 568–576, 2019.

Dialeurotrachelus cambodiensis Takahashi, 1942

Genus
Paraleyrodes
Quaintance, 1909

Paraleyrodes minei Iaccarino, 1990

The species *Paraleyrodes minei* earlier known from the Nearctic, Neotropical, Afrotropical, Oriental, Palearctic region and Hawaii; has been reported for the first time from India based on a collection made from Andaman and Nicobar Islands, Great Nicobar Biosphere Reserve, Galathea National Park, (06°49′187′′N and 93°51′546′′E) and Port Blair (11°38′34′′N and 92°44′20′′E). The specimens have been deposited in ZSI-ANRC. It has been published by A.K. Dubey in the journal: *Phytoparasitica*, 47: 659–662. DOI: https://doi.org/10.1007/s12600-019-00760-z, 2019.

Paraleyrodes minei Iaccarino, 1990

Olidiana brevis (Walker, 1851)

The species *Olidiana brevis* earlier known from China, Myanmar, Laos, Thailand, Bangladesh and Vietnam; has been reported for the first time from India based on a collection made from Assam, Marghertia, 163.5m (27°15'47.4''N and 095°45'59.8''E) and Tripura, Ishanchand nagar. The specimens have been deposited in the UASB and NPC. It has been published by C.A. Viraktamath and N.M. Meshram in the journal: *Zootaxa*, 4653 (1): 001–091, 2019.

Family
CICADELLIDAE

Genus
Olidiana
Mckamey, 2006

Olidiana brevis
(Walker, 1851)

Olidiana perculta (Distant, 1908)

The species *Olidiana perculta* earlier known from China, Myanmar and Thailand; has been reported for the first time from India based on a collection made from Manipur, Imphal and Ukhrul: Shagwou, 1087 m (24°51.286'N and 94°14.009'E). The specimens have been deposited in the UASB, Bengaluru. It has been published by C.A. Viraktamath and N.M. Meshram in the journal: *Zootaxa*, 4653 (1): 001–091, 2019.

Olidiana perculta
(Distant, 1908)

Trinoridia tripectinata (Nielson) 1982

The species *Trinoridia tripectinata* earlier known from Thailand; has been reported for the first time from India based on a collection made from different localities of Tripura, Mizoram and Assam. The specimens have been deposited in the UASB, Bengaluru. It has been published by C.A. Viraktamath and N.M. Meshram in the journal: *Zootaxa*, 4653 (1): 001–091, 2019.

Genus
Trinoridia
Nielson, 2015

Trinoridia tripectinata
(Nielson) 1982

Trinoridia tripectinata
(Nielson) 1982

Mecistosceloides tonkinensis Carvalho, 1992

The species *Mecistosceloides tonkinensis* earlier known from Vietnam; has been reported for the first time from India based on a collection made from Meghalaya, Ri-Bhoi, Barapani, 6m (25°41'N and 91°55'E). The specimens have been deposited in UASB, Bengaluru. It has been published by H. M. Yeshwanth and F. Cherot in the journal: *Zootaxa*, 4711 (1): 157–174, 2019.

Family
MIRIDAE

Genus
Mecistosceloides
Carvalho, 1992

4.8. Hymenoptera

Phylum
ARTHROPODA

Class
INSECTA

Order
HYMENOPTERA

Family
CRABRONIDAE

Genus
***Carinostigmus* Tsuneki 1954**

Carinostigmus (Carinostigmus) griphus Krombein, 1984

The species *Carinostigmus (Carinostigmus) griphus* has been reported for the first time from India based on a collection made from different localities of Karnataka and Tamil Nadu. It has been published by R.G. Gracy, K.S. Murthy and T. Venkatesan in the journal: *Journal of Biological Control*, 33 (1): 70-75, 2019.

Carinostigmus (Carinostigmus) griphus Krombein, 1984

Genus
***Stigmus* Panzer, 1804**

Stigmus convergens Tsuneki, 1954

Stigmus convergens Tsuneki, 1954

The species *Stigmus convergens* earlier known from Japan, Russia, North Korea, Taiwan and China; has been reported for the first time from India based on a collection made from Jammu & Kashmir, Shopian district, Heff village; Anantnag district, Nowpora village and Uttarakhand, Tehri Garhwal district, Kanatal village. The specimens have been deposited in ZSI-WGRC. It has been published by T. Rajan, P. M. Sureshan, P. Girish Kumar and A. H. Sheikh in the journal: *HALTERES*, 10: 31-34. DOI: 10.5281/zenodo.3552178, 2019.

Family
FIGITIDAE

Genus
***Aspicera* Dahlbom, 1842**

Aspicera hartigi Dalla Torre, 1889

The species *Aspicera hartigi* earlier known from Saudi Arabia, UAE, Yemen, Algeria, Austria, Croatia, Cyprus, France, Greece, Iran, Italy, Jordan, Spain and Turkey; has been reported for the first time from India based on a collection made from Kashmir, Srinagar, 1607 m (34.06N and 74.82E). The specimen has been deposited in Kashmir University Insect Collection. It has been published by Z. A. Rather, A. A. Wachkoo, A.A. Khuroo, A. R. Dar and T. H. Dar in the journal: *Journal of Asia-Pacific Biodiversity*, 12: 473-476, 2019.

Aspicera hartigi Dalla Torre, 1889

Family
ICHNEUMONIDAE

Genus
Xanthopimpla
Saussure (1892)

Xanthopimpla exigua exigua Krieger, 1914

The species *Xanthopimpla exigua exigua* earlier known from China, Indonesia, Sumatra and Malaysia; has been reported for the first time from India based on a collection made from Kerala, Wayanad, Mananthawady (11°76'92''N and 75°98'27''E). It has been published by B. M. Manjusha, K. Sudheer and S. M. Ghosh in the journal: *ENTOMON*, 43 (3): 189-214, 2018.

Xanthopimpla exigua exigua Krieger, 1914

Xanthopimpla laticeps liturata Townes and Chiu, 1970

Xanthopimpla laticeps liturata Townes and Chiu, 1970

The species *Xanthopimpla laticeps liturata* earlier known from Malaysia, Papua New Guinea and Philippines; has been reported for the first time from India based on a collection made from Kerala, Malappuram, Calicut University campus (11°70'4''N and 75°51'1''E). It has been published by B. M. Manjusha, K. Sudheer and S. M. Ghosh in the journal: *ENTOMON*, 43 (3): 189-214, 2018.

Xanthopimpla verrucula apheles Townes and Chiu, 1970

The species *Xanthopimpla verrucula apheles* earlier known from Philippines and Singapore; has been reported for the first time from India based on a collection made from Kerala, Malappuram, Calicut University campus (11°70'20''N and 75°51'22''E). It has been published by B. M. Manjusha, K. Sudheer and S. M. Ghosh in the journal: *ENTOMON*, 43 (3): 189-214, 2018.

Xanthopimpla verrucula apheles Townes and Chiu, 1970

Family
MYMARIDAE

Genus
Platystethynium
Ogloblin, 1946

Platystethynium glabrum Jin & Li 2016

Platystethynium glabrum Jin & Li 2016

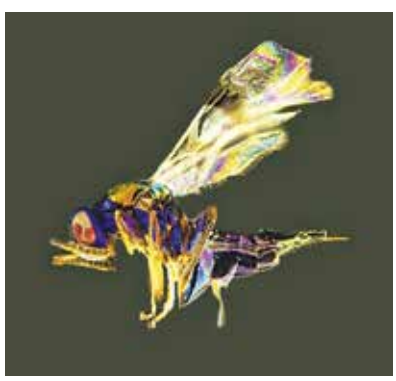
The species *Platystethynium glabrum* earlier known from China; has been reported for the first time from India based on a collection made from Meghalaya, Umiam (25°39'N and 91°53'E), Forest Ecosystem. The specimens have been deposited in Entomology Department, Annamalai University, Chidambaram, Tamil Nadu. It has been published by H. Sankararaman, S. Manickavasagam and S. Palanivel in the journal: *Oriental Insects*, DOI: https://doi.org/10.1080/00305316.2019.1691670, 2019.

Family
PTEROMALIDAE

Genus
***Metacolus* Forster, 1856**

Metacolus sinicus Yang, 1996

The species *Metacolus sinicus* earlier known from China; has been reported for the first time from India based on a collection made from Jammu and Kashmir, Anantnag district, Nowpora village, 1,804 m (33°61.078'N and 075°18.700'E). The specimens have been deposited in the NZC ZSI-WGRC, Kozhikode, Kerala. It has been published by A. L. Khanday, P. M. Sureshan, A. A. Buhroo, A. P. Ranjith and E. Tselikh in the journal: *Journal of Asia-Pacific Biodiversity*, 12: 262-272. DOI: https://doi.org/10.1016/j.japb.2019.01.014, 2019.



Metacolus sinicus Yang, 1996

Genus
***Roptrocerus* Ratzeburg, 1848**

Roptrocerus mirus (Walker, 1834)

Roptrocerus mirus (Walker, 1834)

The species *Roptrocerus mirus* earlier known from China, Russia, Great Britain, Sweden, Switzerland, Poland, Czechia, Slovakia, Hungary, Latvia, Belarus and Japan; has been reported for the first time from India based on a collection made from Jammu and Kashmir, Anantnag district, Nowpora village, 1,804 m (33°61.078'N and 075°18.700'E). The specimens have been deposited in the NZC ZSI-WGRC, Kozhikode, Kerala. It has been published by A. L. Khanday, P. M. Sureshan, A. A. Buhroo, A. P. Ranjith and E. Tselikh in the journal: *Journal of Asia-Pacific Biodiversity*, 12: 262-272. DOI: https://doi.org/10.1016/j.japb.2019.01.014, 2019.

Family
VESPIDAE

Genus
***Katamenes* Meade-Waldo, 1910**

Katamenes dimidiatus watsoni Meade-Waldo, 1910

Katamenes dimidiatus watsoni Meade-Waldo, 1910

The species *Katamenes dimidiatus watsoni* earlier known from Pakistan, S.E. Kazakhstan and Mongolia; has been reported for the first time from India based on a collection made from Jammu & Kashmir, Srinagar district, Nasim Bhag. The specimen has been deposited in the NZC ZSI-WGRC. It has been published by P. Girish Kumar, L. Castro and A.H. Sheikh in the journal: *Boletin de la Asociacion espanola de Entomologia*, 43 (1-2): 15-26, 2019.

Katamenes flavigularis (Bluthgen, 1951)

The species *Katamenes flavigularis* earlier known from Albania, Macedonia, Greece, Bulgaria, Crimea, Russia, Georgia, Armenia, Azerbaijan, Turkey, Syria, Lebanon, Israel, Afghanistan, Iran and Tajikistan; has been reported for the first time from India based on a collection made from Jammu & Kashmir, Ladakh, Kargil district, Kargil, 2590 m and Kargil district, Drass, 3900 m. The specimens have been deposited in the NZC ZSI-WGRC. It has been published by P. Girish Kumar, L. Castro and A.H. Sheikh in the journal: *Boletin de la Asociacion espanola de Entomologia*, 43 (1-2): 15-26, 2019.

Katamenes flavigularis (Bluthgen, 1951)

4.9. Lepidoptera

Genus
Knemodynerus
Bluthgen, 1940

Knemodynerus complanatus complanatus Giordani Soika, 1994

Knemodynerus complanatus complanatus Giordani Soika, 1994

The species *Knemodynerus complanatus complanatus* earlier known from Malaysia: Sabah, Singapore and Indonesia: Java (including Kangean); has been reported for the first time from India based on a collection made from Sikkim, East Sikkim district, Gangtok. The specimens have been deposited in the NZC ZSI-WGRC. It has been published by P. Girish Kumar, J.M. Carpenter and M. Schwarz in the journal: *Linzer biologische Beitrage*, 51 (2): 949-957, 2019.

Phylum
ARTHROPODA

Class
INSECTA

Order
LEPIDOPTERA

Family
EREBIDAE

Genus
***Longarista* Volynkin, 2019**

Longarista kareli Volynkin, 2019

The species *Longarista kareli* earlier known from northern part of Myanmar, Thailand, Laos and Vietnam; has been reported for the first time from India based on a collection made from North East India, Meghalaya, Khasia Hills. The specimens have been deposited in BMNH London, UK. It has been published by Anton V. Volynkin and Maria S. Ivanova in the journal: *Journal of Asia-Pacific Biodiversity*, 12: 689-692. DOI: https://doi.org/10.1016/j.japb.2019.08.003, 2019.

Longarista kareli Volynkin, 2019

Family
LYCAENIDAE

Genus
***Euaspa* Moore, 1884**

Euaspa motokii Koiwaya, 2002

The species *Euaspa motokii* earlier known from Myanmar; has been reported for the first time from India based on a collection made from Arunachal Pradesh, near Anini in Dihang-Dibang Biosphere Reserve, 1369 m (28.784°N and 95.876°E). It has been published by Gaurab Nandi Das, Subrata Gayen, Motoki Saito and Kailash Chandra in the journal: *Journal of Threatened Taxa*, 11(9): 14238-14241, 2019.

Euaspa motokii Koiwaya, 2002

4.10.
Thysanoptera

Phylum
ARTHROPODA

Class
INSECTA

Order
THYSANOPTERA

Family
THRIPIDAE

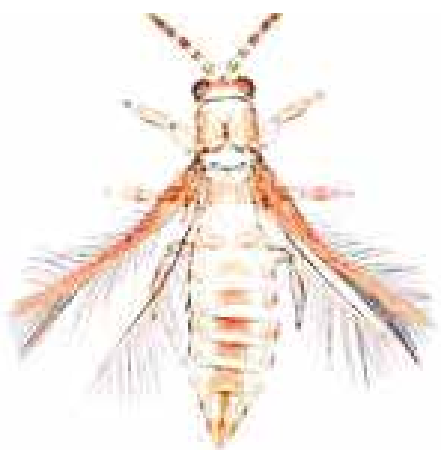
Genus
***Opimothrips* Nonaka & Okajima, 1992**

Opimothrips tubulatus Nonaka & Okajima, 1992

The species *Opimothrips tubulatus* earlier known from Thailand and China; has been reported for the first time from India based on a collection made from Karnataka, Chitradurga. The specimens have been deposited in the Insect Museum, NBAIR, Bengaluru and in Australian National Insect Collection, Canberra. It has been published by R. R. Rachana, L. A. Mound and S. G. Rayar in the journal: *ZooKeys*, 884: 43–52. DOI: 10.3897/zookeys.884.39500, 2019.

Opimothrips tubulatus Nonaka & Okajima, 1992

Genus
***Scirtothrips* Shull, 1909**



Scirtothrips hitam Ng, Mound and Azidah, 2014

Scirtothrips hitam Ng, Mound and Azidah, 2014

The species *Scirtothrips hitam* earlier known from Malaysia; has been reported for the first time from India based on a collection made from different geographical localities of India. The specimens have been deposited in the NZC ZSIK. It has been published by R. Chakraborty, D. Singha, V. Kumar, A. Pakrashi, S. Kundu, K. Chandra, S. Patnaik and K. Tyagi in the journal: *Mitochondrial DNA Part B*, 4 (2): 2710–2714, 2019.

4.11. Trichoptera

Chimarra flaviventris Kimmins, 1957

The species *Chimarra flaviventris* has been reported for the first time from India based on a collection made from Arunachal Pradesh, Ramsing bridge, 790 m. The specimens have been deposited in NZC. It has been published by Manpreet Singh Pandher in the journal: *Braueria*, 46: 11-12, 2019.

Phylum
ARTHROPODA

Class
INSECTA

Order
TRICHOPTERA

Family
PHILOPOTAMIDAE

Genus
***Chimarra* Stephens, 1829**

4.12. Crustacea

Phtisica marina Slabber, 1769

The species *Phtisica marina* earlier known from Netherlands, Northeastern Atlantic, Norway, British Isles, Azores, Canary Islands, Mediterranean Sea, Black Sea, West Africa, South Africa, Gulf of Mexico, St. John, Virgin Islands, Cubagus and Margarita Island, Venezuela, Cape lavela, Columbia, Rio de Janeiro, Brazil, Japanese waters, Sasebo, Korea, and California; has been reported for the first time from India based on a collection made from Gujarat, Gulf of Kachchh, Marine National Park and Sanctuary (22°15′ to 23°40′N and 68°20′ to 70°40′E). It has been published by Tatiparthi Srinivas, Soniya Sukumaran and Heidy Q. Dias in the journal: *BioInvasions Records*, 8 (1): 96–107, 2019.

Phtisica marina Slabber, 1769

Phylum
ARTHROPODA

Class
MALACOSTRACA

Order
AMPHIPODA

Family
CAPRELLIDAE

Genus
***Phtisica* Slabber, 1769**

Order
DECAPODA

Family
CALLIANASSIDAE

Genus
***Neocallichirus* Sakai, 1988**

Neocallichirus jousseaumei (Nobili, 1904)

The species *Neocallichirus jousseaumei* earlier known from Indo-West Pacific, Mauritius, Kangeang Reef, Bay of Kankamaran, Djibouti, Gulf of Aden, Red Sea, Socotra and Persian Gulf, Qeshm Island and Gulf of Oman, Pakistan, Thailand, Philippines, Cocos (Keeling) Islands, Indonesia, Tuamotu, French Polynesia, Ryukyu Islands, Japan; has been reported for the first time from India based on a collection made from Diu, Khukri coast, upper intertidal zone of sandy beach (20.703°N and 70.976°E). The specimen has been deposited in the museum of the Department of Life Sciences, Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar. It has been published by Imtiyaz Beleem, Paresh Poriya and Bharatsinh Gohil in the journal: *Journal of Threatened Taxa:* 11 (3): 13402–13405, 2019.

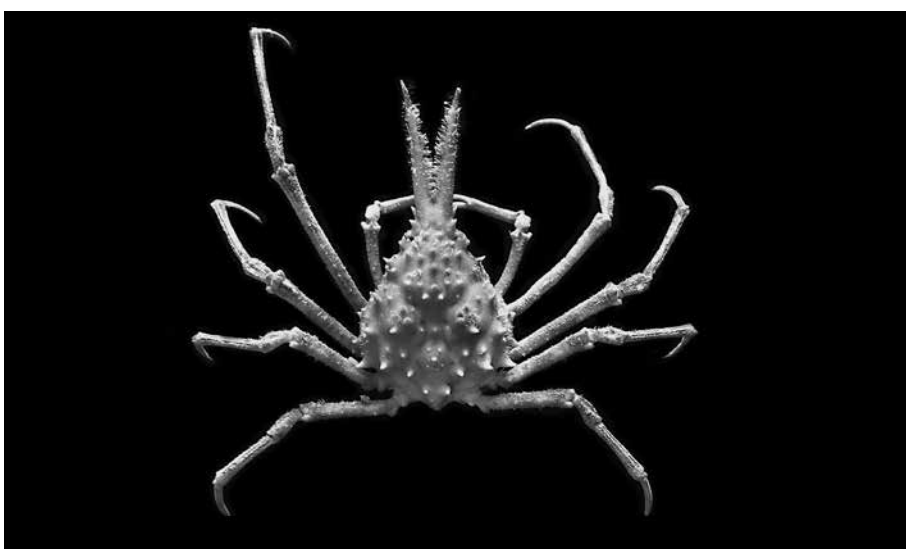
Neocallichirus jousseaumei (Nobili, 1904)

Family
EPIALTIDAE

Genus
***Naxioides* A. Milne-Edwards, 1865**

Naxioides robillardi (Miers, 1882)

The species *Naxioides robillardi* earlier known from East Africa, from off Mombasa, mouth of Gulf of Oman, to Mauritius, Singapore, southeastern Australia, Norfolk Island, to Japan and Taiwan; has been reported for the first time from India based on a collection made from southwest coast of India, Tamil Nadu, off Muttom coast, 160 m depth (8°7′28″N and 77°19′50″E). The specimen has been deposited in the zoological museum of the Department of Aquatic Biology and Fisheries, University of Kerala. It has been published by S. S. Devi, A. B. Kumar and P. K. L. Ng in the journal: *Thalassas: An International Journal of Marine Sciences*, DOI: https://doi.org/10.1007/s41208-019-00138-2, 2019.



Naxioides robillardi (Miers, 1882)

Heteroplax maldivensis (Rathbun, 1902)

The species *Heteroplax maldivensis* earlier known from Maldives; has been reported for the first time from India based on a collection made from South western coast of India, 100 m (7°27.978'N and 77°32.297'E). The specimen has been deposited in the museum collections of the Department of Aquatic Biology and Fisheries, University of Kerala. It has been published by P. K. L. Ng, P. Priyaja, A. B. Kumar and S. S. Devi in the journal: *ZooKeys*, 818: 1-24, 2019.

Family
EURYPLACIDAE

Genus
***Heteroplax* Stimpson, 1858**

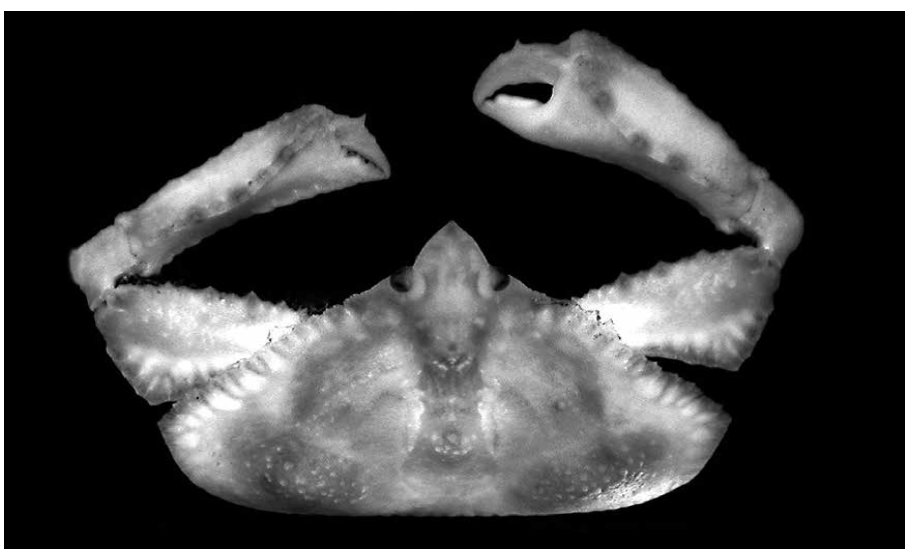
Heteroplax maldivensis (Rathbun, 1902)

Cryptopodia collifer Flipse, 1930

The species *Cryptopodia collifer* earlier known from Indonesia and China; has been reported for the first time from India based on a collection made from South western coast of India, 100 m (7°27.978'N and 77°32.297'E). The specimen has been deposited in the museum collections of the Department of Aquatic Biology and Fisheries, University of Kerala. It has been published by P. K. L. Ng, P. Priyaja, A. B. Kumar and S. S. Devi in the journal: *ZooKeys*, 818: 1-24, 2019.

Family
PARTHENOPIDAE

Genus
***Cryptopodia* H. Milne Edwards, 1834**

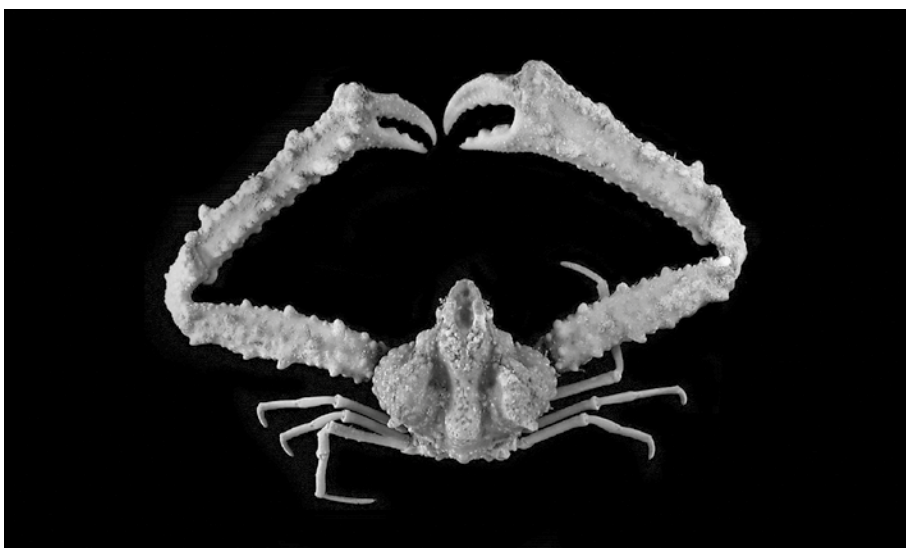


Cryptopodia collifer Flipse, 1930

Genus
***Rhinolambrus* A. Milne-Edwards, 1878**

Rhinolambrus lippus (Lanchester, 1901)

The species *Rhinolambrus lippus* earlier known from Djibouti, Madagascar and Malaysia; has been reported for the first time from India based on a collection made from Tamil Nadu, Pamban fishing port (9°16'56''N and 079°12'31''E). The specimen has been deposited in the Zoological Reference collection, Department of Life Sciences, Hemchandracharya North Gujarat University, Patan, Gujarat. It has been published by Jigneshkumar N. Trivedi and S. H. Tan in the journal: *Nauplius The Journal of the Brazilian Crustacean Society*, DOI: 10.1590/2358-2936e2019021, 2019.



Rhinolambrus lippus (Lanchester, 1901)

Family
PINNOTHERIDAE

Genus
***Arcotheres* Manning, 1993**

Arcotheres pernicola (Burger, 1895)

The species *Arcotheres pernicola* earlier known from Philippines, Papua New Guinea and Djibouti; has been reported for the first time from India based on a collection made from Maharashtra, Alibaugh (18°38'11.5''N and 72°51'52.2''E). The specimens have been deposited in Zoology Museum, Department of Zoology, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat. It has been published by J. Trivedi, S. Gosavi, K. Vachhrajani and Peter K. L. Ng in the journal: *Zootaxa*, 4706 (4): 587–593, 2019.

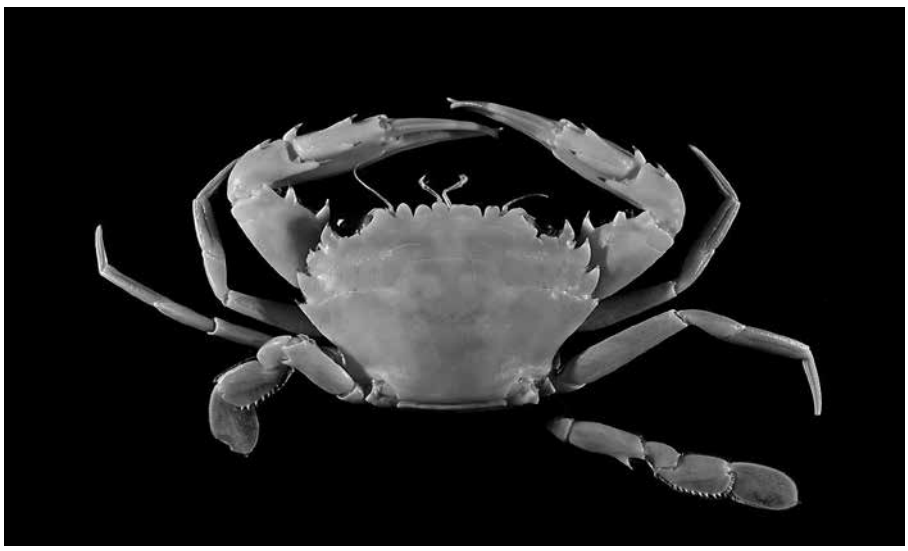
Arcotheres pernicola (Burger, 1895)

Gonioinfradens paucidentatus (A. Milne-Edwards, 1861)

The species *Gonioinfradens paucidentatus* earlier known from Indian Ocean, Mozambique Channel, Red Sea, Republic of Mauritius, Seychelles and South Pacific Ocean; has been reported for the first time from India based on a collection made from Lakshadweep, Agatti. The specimen has been deposited in Department of Aquatic Biology and Fisheries, University of Kerala. It has been published by S. S. Devi, J. C. E. Mendoza, R. Ravinesh, K. K. I. Babu, A. B. Kumar and P. K. L. Ng in the journal: *Zootaxa*, 4613 (3): 477–501, 2019.

Family
PORTUNIDAE

Genus
***Gonioinfradens* Leene, 1938**



Gonioinfradens paucidentatus (A. Milne-Edwards, 1861)

Lupocyclus tugelae Barnard, 1950

The species *Lupocyclus tugelae* earlier known from East Africa (off Tugela River) to Madagascar, Seychelles, Indonesia, Japan, Australia, Philippines and New Caledonia; has been reported for the first time from India based on a collection made from southwest coast of India, Tamil Nadu, off Muttom coast, 150 m depth (8°7′28″N and 77°19′50″E). The specimens have been deposited in the zoological museum of the Department of Aquatic Biology and Fisheries, University of Kerala. It has been published by S. S. Devi, A. B. Kumar and P. K. L. Ng in the journal: *Thalassas: An International Journal of Marine Sciences*, DOI: https://doi.org/10.1007/s41208-019-00138-2, 2019.

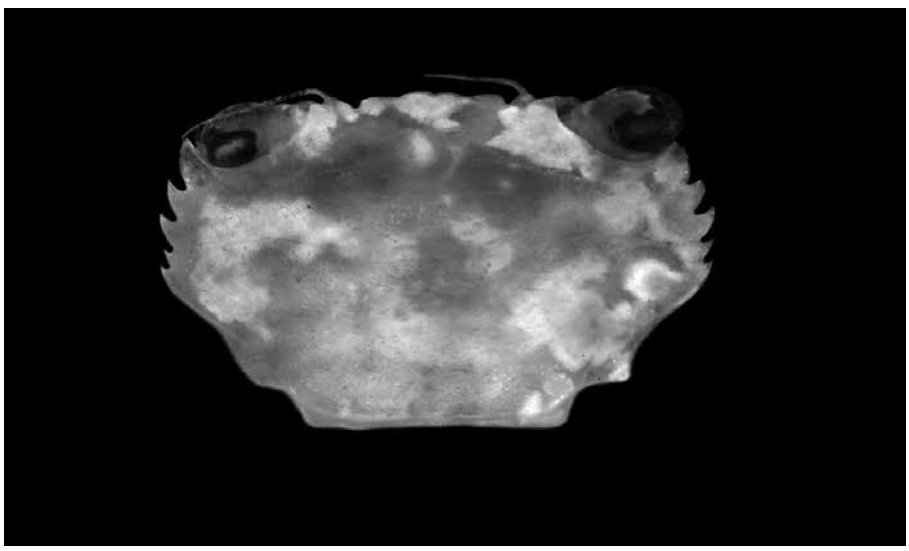
Genus
***Lupocyclus* Adams and White, 1849**

Lupocyclus tugelae Barnard, 1950

Genus
***Thalamita* Latreille, 1829**

Thalamita macrodonta Borradaile, 1902

The species *Thalamita macrodonta* earlier known from Maldives; has been reported for the first time from India based on a collection made from South western coast of India, 50 m (8°22.727'N and 76°43.545'E). The specimen has been deposited in the museum collections of the Department of Aquatic Biology and Fisheries, University of Kerala. It has been published by P. K. L. Ng, P. Priyaja, A. B. Kumar and S. S. Devi in the journal: *ZooKeys*, 818: 1-24, 2019.



Thalamita macrodonta Borradaile, 1902

Genus
***Xiphonectes* A. Milne-Edwards, 1873**

Xiphonectes iranjae Crosnier, 1962

The species *Xiphonectes iranjae* earlier known from various parts of Indian Ocean; has been reported for the first time from India based on a collection made from Lakshadweep, Agatti. The specimens have been deposited in Department of Aquatic Biology and Fisheries, University of Kerala. It has been published by S. S. Devi, J. C. E. Mendoza, R. Ravinesh, K. K. I. Babu, A. B. Kumar and P. K. L. Ng in the journal: *Zootaxa*, 4613 (3): 477–501, 2019.

Xiphonectes iranjae Crosnier, 1962

Thor hainanensis Xu and Li, 2014

The species *Thor hainanensis* earlier known from China, Hainan Island; has been reported for the first time from India based on a collection made from Arabian Sea, Lakshadweep, Agatti Islands, (10°50'00''N, 72°11'21''E and 10°50'43''N, 72°11'21''E). The specimens have been deposited at the National Museum and Repository of the ICAR-National Bureau of Fish Genetic Resources, Lucknow. It has been published by M. Madhavan, P. Purushothaman, S. Akash, S. Bharathi, S. Jose, A. Dhinakaran, C. Ravi, T. T. A. Kumar and K. K. Lal in the journal: *Zootaxa*, 4624 (3): 351–364, 2019.

Thor hainanensis Xu and Li, 2014

Family
THORIDAE

Genus
***Thor* Kingsley, 1878**

Trapezia lutea Castro, 1997

The species *Trapezia lutea* earlier known from various parts of Indian Ocean, Mozambique Channel and South Pacific Ocean; has been reported for the first time from India based on a collection made from Lakshadweep, Bitra. The specimen has been deposited in Department of Aquatic Biology and Fisheries, University of Kerala. It has been published by S. S. Devi, J. C. E. Mendoza, R. Ravinesh, K. K. I. Babu, A. B. Kumar and P. K. L. Ng in the journal: *Zootaxa*, 4613 (3): 477–501, 2019.

Trapezia lutea Castro, 1997

Family
TRAPEZIIDAE

Genus
***Trapezia* Latreille, 1828**

Family
XANTHIDAE

Genus
***Paraxanthodes* Guinot, 196**

Paraxanthodes cumatodes (MacGilchrist, 1905)

The species *Paraxanthodes cumatodes* earlier known from western Indian Ocean; has been reported for the first time from India based on a collection made from South western coast of India, 50 m (8°58.270'N and 76°17.365'E). The specimen has been deposited in the museum collections of the Department of Aquatic Biology and Fisheries, University of Kerala. It has been published by P. K. L. Ng, P. Priyaja, A. B. Kumar and S. S. Devi in the journal: *ZooKeys*, 818: 1-24, 2019.

Paraxanthodes cumatodes (MacGilchrist, 1905)

4.13. Arachnida

Neobrettus tibialis (Proszynski, 1978)

The species *Neobrettus tibialis* earlier known from Bhutan and Malaysia; has been reported for the first time from India based on a collection made from West Bengal, Narendrapur (22.4275°N and 88.4042°E). The specimens have been deposited in NZC ZSIK. It has been published by Indranil Banerjee, John T. D. Caleb and David E. Hill in the journal: *Peckhamia*, 198 (1): 1-9, 2019.

Neobrettus tibialis (Proszynski, 1978)

Phylum
ARTHROPODA

Class
ARACHNIDA

Order
ARANEAE

Family
SALTICIDAE

Genus
***Neobrettus* Wanless, 1984**

Genus
***Schenkelia* Lessert, 1927**

Schenkelia aurantia Kanesharatnam & Benjamin, 2018

The species *Schenkelia aurantia* earlier known from Sri Lanka; has been reported for the first time from India based on a collection made from Arunachal Pradesh, Dihang-Dibang Biosphere Reserve, Mouling National Park, Ramsing forest (28.63°N and 94.96°E) and Uttarakhand, Dehradun, Wildlife Institute of India campus (30.2814°N and 77.9741°E). The specimens have been deposited in NZC ZSIK. It has been published by John T.D. Caleb and Shelley Acharya in the journal: *Acta Arachnologica*, 68 (2): 73–75, 2019.

Schenkelia aurantia Kanesharatnam & Benjamin, 2018

Family
THERIDIIDAE

Genus
***Nihonhimea* Yoshida, 2016**

Nihonhimea japonica (Bosenberg and Strand, 1906)

The species *Nihonhimea japonica* earlier known from China, Taiwan, Laos, Korea and Japan; has been reported for the first time from India based on a collection made from Kerala, Chimmony Wildlife Sanctuary. The specimens have been deposited in Arachnological Collections, Zoology Museum. It has been published by Reshmi Sekhar and Sunil Jose, K. in the journal: *Indian Journal of Entomology*, 81 (1): 34-36, 2019.

Nihonhimea japonica (Bosenberg and Strand, 1906)

Order
ORIBATIDA

Family
PHTHIRACARIDAE

Genus
***Notopthiracarus (Calyptothiracarus)* Aoki, 1980**

Notopthiracarus (Calyptothiracarus) pavidus pavidus Berlese, 1913

The species *Notopthiracarus (Calyptothiracarus) pavidus pavidus* earlier known from Greece; has been reported for the first time from India based on a collection made from Maharashtra, Aurangabad district, Ajanta Cave; Chandrapur district, Wadgaon village and Khambara village. The specimens have been deposited in ZSI. It has been published by S. Acharya and P. Basu in the journal: *Fauna of Maharashtra, State Fauna Series* 20 (3): 211-226, 2019.

Notopthiracarus (Calyptothiracarus) pavidus pavidus Berlese, 1913

Heptacarus neotropicus Mahunka, 1985

Family
LOHMANIDAE

Genus
***Heptacarus* Piffl, 1963**

Heptacarus neotropicus Mahunka, 1985

The species earlier known from Antilles (North America) and France; has been reported for the first time from India based on a collection made from Maharashtra, Mumbai, Aarey Colony district. The specimen has been deposited in ZSI. It has been published by S. Acharya and P. Basu in the journal: *Fauna of Maharashtra, State Fauna Series* 20 (3): 211-226, 2019.

Gymnodamaeus glaber Kunst

The species *Gymnodamaeus glaber* earlier known from Europe; has been reported for the first time from India based on a collection made from Maharashtra, Thane district, Majiwara; Ratangiri district, Ratnagiri Fort; Pune district, Sinhagad Fort and Bhandara district, Tumsar village. The specimens have been deposited in ZSI. It has been published by S. Acharya and P. Basu in the journal: *Fauna of Maharashtra, State Fauna Series* 20 (3): 211-226, 2019.

Gymnodamaeus glaber Kunst

Family
GYMNODAMAEIDAE

Genus
***Gymnodamaeus* Kulczynski, 1902**

Family
ZETORCHESTIDAE

Genus
***Litholestes* Grandjean, 1951**

Litholestes altitudinus Grandjean, 1951

The species *Litholestes altitudinus* earlier known from Europe; has been reported for the first time from India based on a collection made from Maharashtra, Pune district, Sinhagad Fort. The specimen has been deposited in ZSI. It has been published by S. Acharya and P. Basu in the journal: *Fauna of Maharashtra*, *State Fauna Series* 20 (3): 211-226, 2019.

Litholestes altitudinus Grandjean, 1951

Family
MICROZETIDAE

Genus
***Orthozetes* Balogh, 1962**

Orthozetes dispar Balogh, 1962

The species *Orthozetes dispar* earlier known from South America; has been reported for the first time from India based on a collection made from Maharashtra, Ratnagiri district, Ratnagiri Fort. The specimen has been deposited in ZSI. It has been published by S. Acharya and P. Basu in the journal: *Fauna of Maharashtra*, *State Fauna Series* 20 (3): 211-226, 2019.

Orthozetes dispar Balogh, 1962

Family
OPPIIDAE

Genus
***Lasiobelba* Aoki, 1965**

Lasiobelba remota Aoki, 1965

The species *Lasiobelba remota* earlier known from Japan and Vietnam; has been reported for the first time from India based on a collection made from Maharashtra, Ahmednagar district, Sangamner Khurd, Hibargaon village; Nashik district, Sinnor village, Aurangabad district, Sillod village; Aurangabad district, Ellora Cave No. 24 and Manmad district, Panwari village. The specimens have been deposited in ZSI. It has been published by S. Acharya and P. Basu in the journal: *Fauna of Maharashtra*, *State Fauna Series* 20 (3): 211-226, 2019.

Lasiobelba remota Aoki, 1965

Scheloribates giganteus Hammer, 1961

The species *Scheloribates giganteus* earlier known from Argentina, Bolivia and Peru; has been reported for the first time from India based on a collection made from Maharashtra, Akola district, Kumbhari village; Pune district, Hadapsar (Panmala) and Aurangabad district, Daulatabad Fort. The specimens have been deposited in ZSI. It has been published by S. Acharya and P. Basu in the journal: *Fauna of Maharashtra, State Fauna Series* 20 (3): 211-226, 2019.

Scheloribates giganteus Hammer, 1961

Family
SCHELORIBATIDAE

Genus
***Scheloribates* Berlese, 1908**

Peloribates grandis Willman, 1930

The species *Peloribates grandis* earlier known from Guatemala; has been reported for the first time from India based on a collection made from Maharashtra, Bhandara district, Tumsar village and Chandrapur district, Khambara village. The specimens have been deposited in ZSI. It has been published by S. Acharya and P. Basu in the journal: *Fauna of Maharashtra, State Fauna Series* 20 (3): 211-226, 2019

Peloribates grandis Willman, 1930

Family
HAPLOZETIDAE

Genus
***Peloribates* Berlese, 1908**

Atractides (Atractides) cf. incertus Lundblad, 1969

The species *Atractides (Atractides)* cf. *incertus* earlier known from Burma and Thailand; has been reported for the first time from India based on a collection made from Uttarakhand, Randi Gad stream (30°6'28,26"N and 78°37'30,68"E). The specimen has been deposited in the Naturalis Biodiversity Center, Leiden. It has been published by V. Pesic, H. Smit and P. Bahuguna in the journal: *Systematic & Applied Acarology*, 24 (1): 59-80, 2019.

Order
TROMBIDIFORMES

Family
HYGROBATIDAE

Genus
***Atractides* Koch, 1837**

4.14. Annelida

Kingdom
ANIMALIA

Phylum
ANNELIDA

Class
CLITELLATA

Metaphire bahli (Gates, 1945)

The species *Metaphire bahli* earlier known from Cambodia, Laos, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam and Australia; has been reported for the first time from India based on a collection made from Kerala, Alappuzha District, Chennithala (9.273746°N and 76.529845°E). The type specimens have been deposited in the earthworm laboratory of the Advanced Centre of Environmental Studies and Sustainable Development, Mahatma Gandhi University, Kerala. It has been published by S. P. Narayanan, S. Sathrumithra, R. Anuja, G. Christopher, A. P. Thomas and J. M. Julka in the journal: *Opuscula Zoologica Budapest*, 50 (1): 99–103, 2019.

Order
HAPLOTAXIDA

Family
MEGASCOLECIDAE

Genus
***Metaphire* Sims and Easton, 1972**

4.15. Nematoda

Phylum
NEMATODA

Class
ENOPLEA

Order
DORYLAIMIDA

Family
APORCELAIMIDAE

Genus
Aporcelaimellus
Heyns, 1965

Aporcelaimellus baeticus Sergio Alvarez-ortega, Joaguin abolafia and Reyes Pena_Santiago, 2013

The species *Aporcelaimellus baeticus* earlier known from Spain; has been reported for the first time from India based on a collection made from Uttarakhand, Haridwar, Rajaji Tiger Reserve, Hazra range. The specimens have been deposited in NZC, ZSI-NRC, Dehradun, Uttarakhand. It has been published by Vinita Sharma in the journal: *Indian Journal of Forestry*, 42 (1) 1-4, 2019.

Genus
***Xiphinema* Cobb, 1913**

Xiphinema parachambersi Maria, Ye, Yu and Gu, 2018

The species *Xiphinema parachambersi* earlier known from Japan; has been reported for the first time from India based on a collection made from Uttarakhand, Haridwar, Rajaji Tiger Reserve, Gohari ranges. The specimens have been deposited in NZC, ZSI-NRC, Dehradun, Uttarakhand. It has been published by Vinita Sharma in the journal: *Indian Journal of Forestry*, 42 (1) 1-4, 2019.

Family
DORYLAIMIDAE

Genus
Allodorylaimus
Andrasssy, 1986

Allodorylaimus piracicabensis (Lordello, 1955) Andrasssy, 1986

The species *Allodorylaimus piracicabensis* earlier known from Brazil and Lithuania; has been reported for the first time from India based on a collection made from Uttar Pradesh, Pilibhit dist, Pilibhit Tiger Reserve, Mahof forest range, near Veem tal (28°42.908N and 079°59.466E). The specimens have been deposited in the NZC, ZSIK. It has been published by Debabrata Sen in the journal: *Records of Zoological Survey of India*, 119 (4): 316-327, 2019.

Allodorylaimus piracicabensis (Lordello, 1955) Andrasssy, 1986

4.16. Cnidaria

Melithaea delicata (Hickson, 1940)

The species *Melithaea delicata* earlier known from Indonesia, Red Sea, Ghardaqa, Madagascar, Eilat and Kenia; has been reported for the first time from India based on a collection made from Andaman and Nicobar Islands, Little Andaman, South Bay, (10°30.605N and 092°29.143E). The specimen has been deposited in the NZC ZSI-ANRC. It has been published by J. S. Yogesh Kumar, S. Geetha, C. Raghunathan and R. Sornaraj in the journal: *Indian Journal of Geo Marine Sciences*, 48 (09): 1344-1350, 2019.

Phylum
CNIDARIA

Class
ANTHOZOA

Order
ALCYONACEA

Family
MELITHAEIDAE

Genus
***Melithaea* Milne Edwards, 1857**

Melithaea delicata (Hickson, 1940)

Melithaea retifera (Lamark, 1816)

The species *Melithaea retifera* earlier known from Singapore, Pulau Subar Laut; has been reported for the first time from India based on a collection made from Andaman and Nicobar Islands, South Andaman Islands, Havelock Island (12°03′33.4N and 92°57′71.6E) and North Andaman Islands, Shark Island (13°12.064N and 92°45.255E). The specimens have been deposited in the NZC ZSI-ANRC. It has been published by J. S. Yogesh Kumar, S. Geetha, C. Raghunathan and R. Sornaraj in the journal: I*ndian Journal of Geo Marine Sciences*, 48 (10): 1516-1520, 2019.

Melithaea retifera (Lamark, 1816)

Family
NEPHTHEIDAE

Genus
Dendronephthya
Kukenthal, 1905

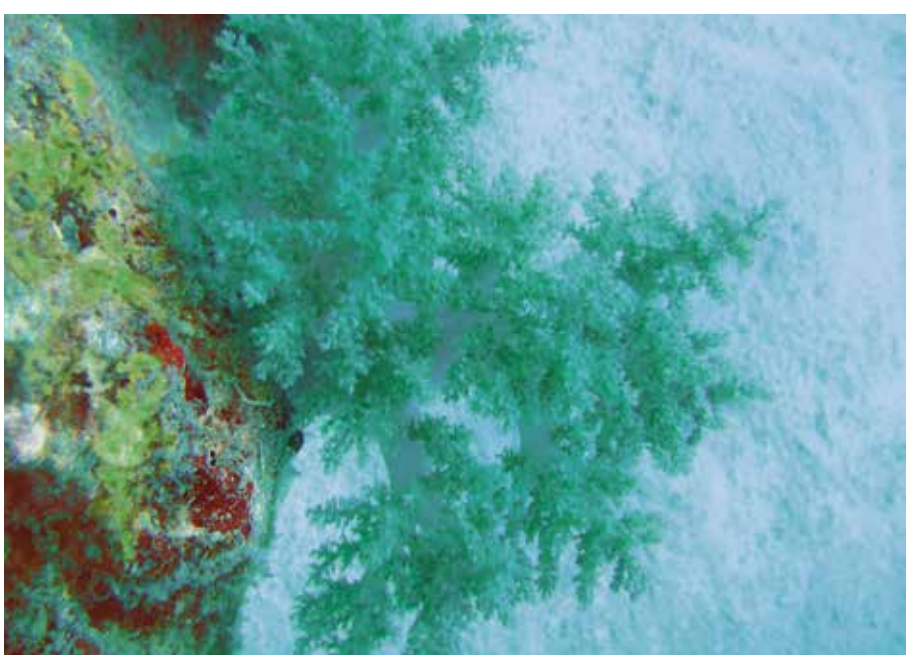
Dendronephthya mucronata Putter, 1900

The species *Dendronephthya mucronata* earlier known from Indo-Pacific region; has been reported for the first time from India based on a collection made from Andaman and Nicobar Islands, South Andaman, Pongibalu (11°31.030N and 092°39.159E). The specimen has been deposited in ZSI-ANRC. It has been published by J.S. Yogesh Kumar, S. Geetha, C. Raghunathan and R. Sornaraj in the journal: *Indian Journal of Geo Marine Sciences*, 48 (03): 343-348, 2019.

Dendronephthya mucronata Putter, 1900

Dendronephthya savignyi Ehrenberg, 1843

The species *Dendronephthya savignyi* earlier known from Indo-Pacific region; has been reported for the first time from India based on a collection made from Andaman and Nicobar Islands, South Andaman, South Button Island (12°13.4N and 092°01.334E). The specimen has been deposited in ZSI-ANRC. It has been published by J.S. Yogesh Kumar, S. Geetha, C. Raghunathan and R. Sornaraj in the journal: *Indian Journal of Geo Marine Sciences*, 48 (03): 343-348, 2019.

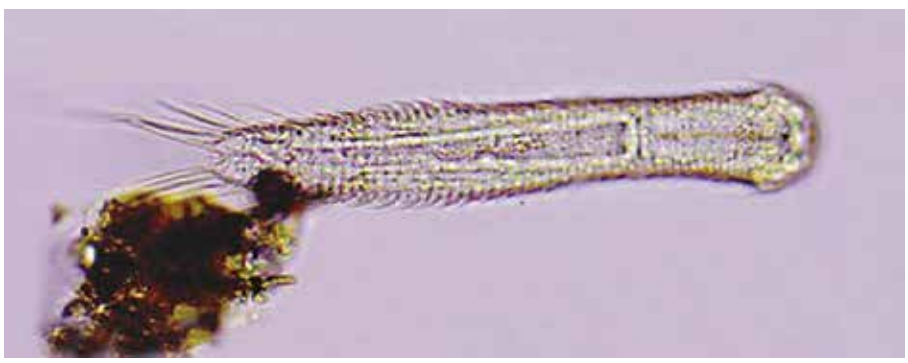


Dendronephthya savignyi Ehrenberg, 1843

4.17. Gastrotricha

Lepidochaetus zelinkai (Grünspan, 1908)

The species *Lepidochaetus zelinkai* earlier known from Europe, Canada, Argentina, Brazil, Korea, and Japan; has been reported for the first time from India based on a collection made from West Bengal, Mahananda Wildlife Sanctuary, Laltong beat (opposite seventh mile), 130 m (26°48'35"N and 88°27'04"E). It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (4): 474- 479, 2019.



Lepidochaetus zelinkai (Grünspan, 1908)

Phylum
GASTROTRICHA

Order
CHAETONOTIDA

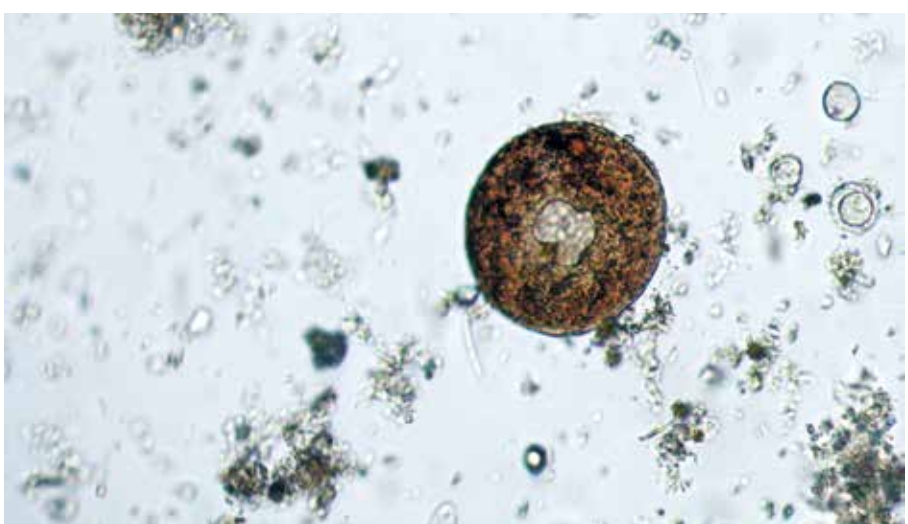
Family
CHAETONOTIDAE

Genus
Lepidochaetus **Kisielewski, 1991**

4.18. Protista

Cyclopyxis leidy Couteaux et Chardez, 1981

The species *Cyclopyxis leidy* earlier known from France and Indonesia; has been reported for the first time from India based on a collection made from Himachal Pradesh, Sangla Valley (31°10′1.00′′-31°30′17.16′′N and 78°10′26.52′′-78°52′41.75′′E). The specimens have been deposited in the NZC ZSI-MBRC. It has been published by Bindu L. in the journal: *International Journal of Biodiversity and Conservation*, 11 (7): 183-186, 2019.



Cyclopyxis leidy Couteaux et Chardez, 1981

Kingdom
PROTISTA

Phylum
AMOEBOZOA

Class
TUBULINEA

Order
ARCELLINIDA

Family
TRIGONOPYXIDAE

Genus
Cyclopyxis **Deflandre (1929)**

Phylum
CERCOZOA

Class
SILICOFILOSEA

Order
EUGLYPHIDA

Family
ASSULINIDAE

Genus
***Assulina* Ehrenberg (1872)**

Assulina quadratum Van Oye, 1958

Assulina quadratum Van Oye, 1958

The species *Assulina quadratum* earlier known from Austria, France and Netherlands; has been reported for the first time from India based on a collection made from Himachal Pradesh, Sangla Valley (31°10′1.00′′-31°30′17.16′′N and 78°10′26.52′′-78°52′41.75′′E). The specimens have been deposited in the the NZC ZSI-MBRC. It has been published by Bindu L. in the journal: *International Journal of Biodiversity and Conservation*, 11 (7): 183-186, 2019.

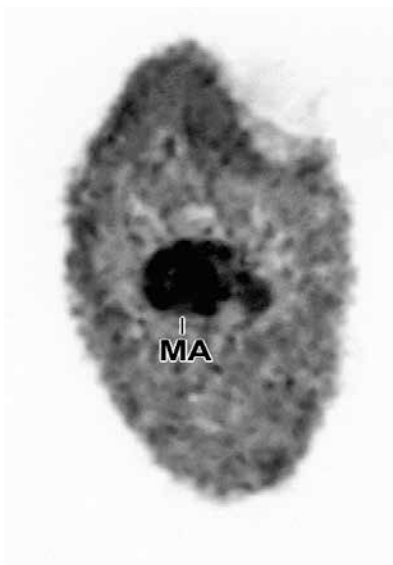
Phylum
CILIOPHORA

Class
COLPODEA

Order
CYRTOLOPHOSIDIDA

Family
CYRTOLOPHOSIDIDAE

Genus
***Cyrtolophosis* Stokes, 1885**



Cyrtolophosis muscicola Stokes, 1885

Cyrtolophosis muscicola Stokes, 1885

The species *Cyrtolophosis muscicola* earlier known from five biogeographic regions, Holarctis, Palaeotropis, Australis, Neotropis, and Archinotis; has been reported for the first time from India based on a collection made from Mumbai, Flamingo Bird Sanctuary (19°06'40''N and 72°59'49''E). The specimens have been deposited at the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019.

Class
NASSOPHOREA

Order
MICROTHORACIDA

Family
LEPTOPHARYNIDAE

Genus
***Leptopharynx* Stokes, 1885**

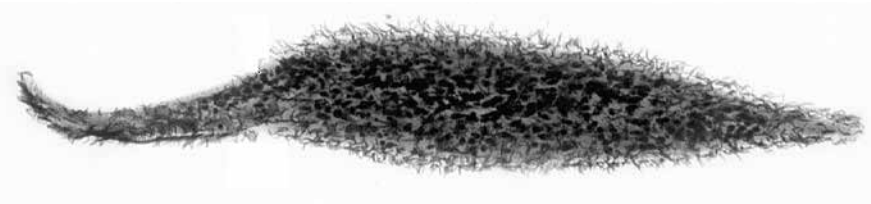
Leptopharynx costatus Mermod, 1914

Leptopharynx costatus Mermod, 1914

The species *Leptopharynx costatus* earlier known from Germany, Mexico, Austria, Brazil and Florida; has been reported for the first time from India based on a collection made from Mumbai, Flamingo Bird Sanctuary (19°06'37''N and 72°59'42''E; 19°05'46''N and 72°56'01''E; 19°06'37''N and 72°59'38''E). The specimens have been deposited at the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019.

Dileptus beersi Jones, 1956

The species *Dileptus beersi* earlier known North Carolina (USA), Venezuela, and Savannah; has been reported for the first time from India based on a collection made from Mumbai, Flamingo Bird Sanctuary (19°05'46''N and 72°56'01''E). The specimens have been deposited at the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019.



Order
DILEPTIDA

Family
DILEPTIDAE

Genus
Dileptus
Dujardin, 1841

Dileptus beersi
Jones, 1956

Genus
Pseudomonilicaryon
Foissner, 1997

Pseudomonilicaryon falciforme (Kahl, 1931) Vďacny and Foissner, 2012

Pseudomonilicaryon falciforme (Kahl, 1931) Vďacny and Foissner, 2012

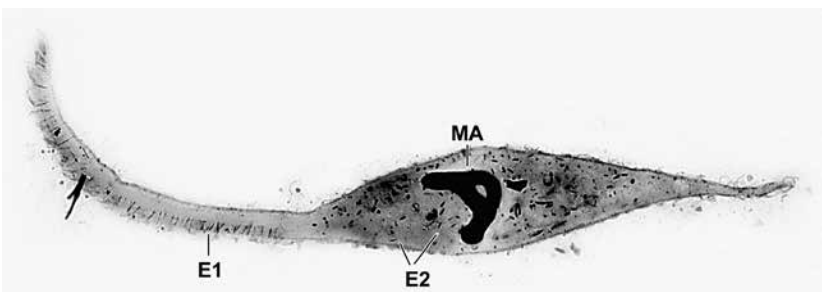
The species *Pseudomonilicaryon falciforme* earlier known from Germany, Austria, Hawaii, Tibetan Plateau and China; has been reported for the first time from India based on a collection made from Mumbai, Flamingo Bird Sanctuary (19°06'40''N and 72°59'49''E; 19°05'50''N and 72°56'25''E). The specimens have been deposited at the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019.

Family
DIMACROCARY-ONIDAE

Genus
Rimaleptus **Foissner, 1984**

Rimaleptus mucronatus (Penard, 1922) Vďacny, Orsi, Bourland, Shimano, Epstein and Foissner, 2011

The species *Rimaleptus mucronatus* earlier known from Benin, Kenya, Zanzibar, Venezuela, St. Vincent Island, Australia, Austria, Slovakia, Saudi Arabia, China, Namibia, USA, Switzerland, France, England, Spain, Bulgaria, Turkey, and Canada; has been reported for the first time from India based on a collection made from Mumbai, Flamingo Bird Sanctuary (19°06'37''N and 72°59'42''E; 19°06'37''N and 72°59'38''E). The specimens have been deposited at the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019.



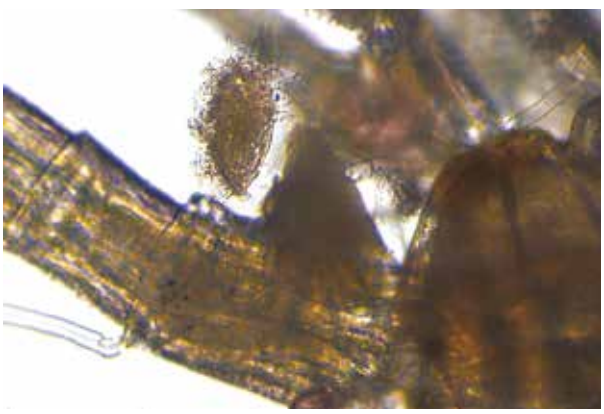
Rimaleptus mucronatus (Penard, 1922) Vďacny, Orsi, Bourland, Shimano, Epstein and Foissner, 2011

Class
PHYLLOPHARYNGEA

Order
EXOGENIDA

Family
EPHELOTIDAE

Genus
***Ephelota* Wright, 1857**



Ephelota gigantea Noble, 1929

Ephelota gigantea Noble, 1929

This species *Ephelota gigantea* earlier known from Monterey Bay California, North-eastern coast of Japan, West coast of Scotland and Magellan Strait, Chile; has been reported for the first time from India based on a coastal collection made from Visakhapatnam (30 m depth: 17.75°N and 83.5°E) and Kakinada (20 m depth: 16.97°N and 82.391°E). It has been published by J. Purushothaman, A. Bhowal, A. Siddique, S.V. Francis and C. Raghunathan in the journal: *Symbiosis*, https://doi.org/10.1007/s13199-019-00659-7, 2020.

Ephelota plana Wailes, 1925

The species *Ephelota plana* earlier known from North-eastern coast of Japan, Canada, West coast of Scotland, Clyde and Argyll (Scotland, U.K.) and Norway; has been reported for the first time from India based on a coastal collection made from Visakhapatnam (10 m depth: 17.75°N and 83.406°E; 30 m depth: 17.75°N and 83.5°E) and Kakinada (0 m depth: 16.97°N and 82.342°E; 20 m depth: 16.97°N and 82.391°E). It has been published by J. Purushothaman, A. Bhowal, A. Siddique, S.V. Francis and C. Raghunathan in the journal: *Symbiosis*, https://doi.org/10.1007/s13199-019-00659-7, 2020.

Ephelota plana Wailes, 1925

Class
SPIROTRICHEA

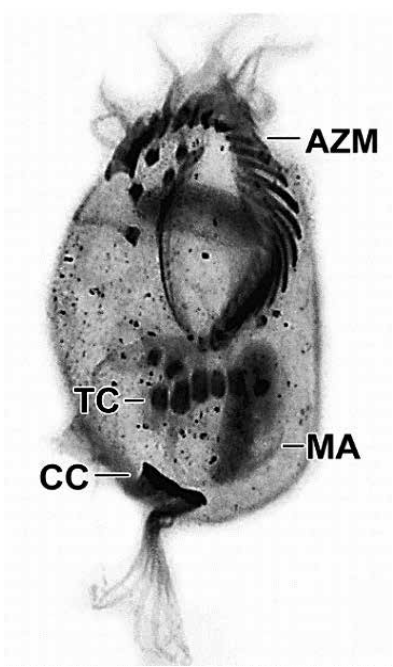
Order
EUPLOTIDA

Family
URONYCHIIDAE

Genus
***Diophrys* Dujardin, 1841**

Diophrys oligothrix Borror, 1965

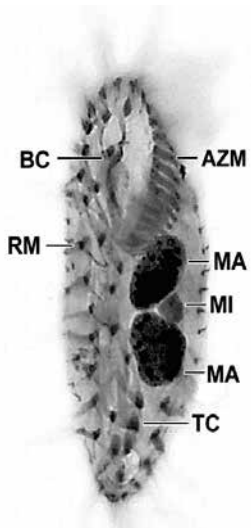
The species *Diophrys oligothrix* earlier known from America, Antarctic, Europe, China and Korea; has been reported for the first time from India based on a collection made from Navi Mumbai, Vashi, from the surroundings of Flamingo Bird Sanctuary (19°04'34''N and 72°59'02''E). The specimens have been deposited at the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019.



Diophrys oligothrix Borror, 1965

Monomicrocaryon balladyna (Song & Wilbert, 1989) Foissner, 2016

The species *Monomicrocaryon balladyna* earlier known from Germany, Czechoslovakia, Yugoslavia, and USA; has been reported for the first time from India based on a collection made from Mumbai, Flamingo Bird Sanctuary (19°06'40''N and 72°59'49''E). The specimens have been deposited in the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019.



Order
SPORADOTRICHIDA

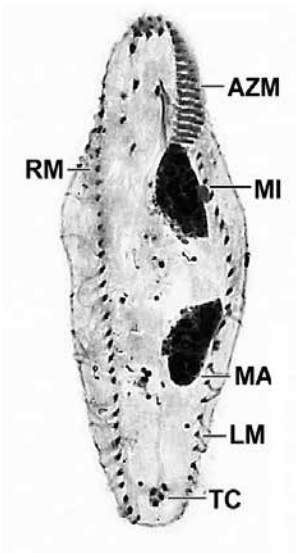
Family
OXYTRICHIDAE

Genus
***Monomicrocaryon* Foissner, 2016**

Monomicrocaryon balladyna (Song & Wilbert, 1989) Foissner, 2016

Urosoma karinae (Ehrenberg, 1833) Berger, 1999

The species *Urosoma karinae* earlier known from Germany, Czechoslovakia, Yugoslavia, and USA.; has been reported for the first time from India based on a collection made from Mumbai, Flamingo Bird Sanctuary (19°06'31''N and 72°57'45''E; 19°05'46''N and 72°56'25''E). The specimens have been deposited at the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019

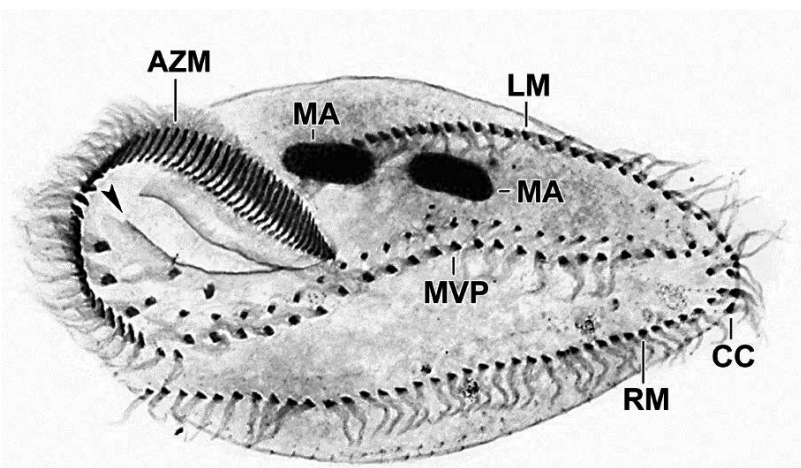


Genus
***Urosoma* Kowalewskiego, 1882**

Urosoma karinae (Ehrenberg, 1833) Berger, 1999

Rigidosticha italiensis Bharti, Kumar and La Terza, 2016

The species *Rigidosticha italiensis* earlier known from Italy; has been reported for the first time from India based on a collection made from Mumbai, Flamingo Bird Sanctuary (19°05'46''N and 72°56'01''E). The specimens have been deposited at the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019.



Order
UROSTYLIDA

Family
RIGIDOTRICHIDAE

Genus
***Rigidosticha* Bharti, Kumar and La Terza, 2016**

Rigidosticha italiensis Bharti, Kumar and La Terza, 2016

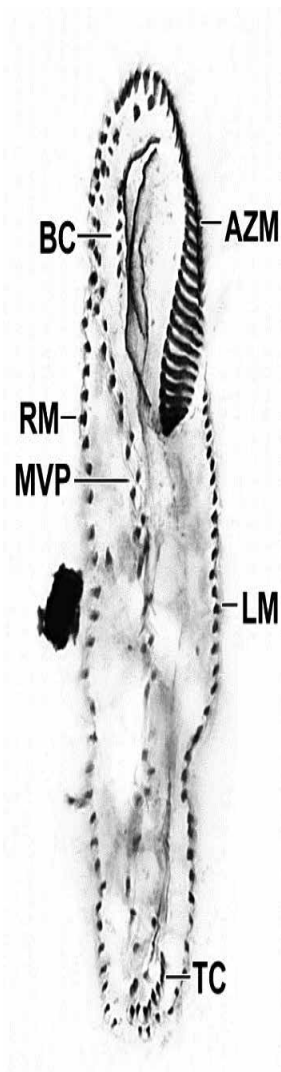
Family
UROSTYLIDAE

Genus
***Anteholosticha* Berger, 2003**

Anteholosticha intermedia (Bergh, 1889) Berger, 2006

The species *Anteholosticha intermedia* earlier known from Denmark, Austria, Italy, Antarctica, USA, Norway, Germany, China, Korea, Hungary, Slovakia, Japan, Canada, New Zealand, France, Scotland, Poland, Costa Rica, Brazil, England, Spain, and Caspian Sea; has been reported for the first time from India based on a collection made from Mumbai, Flamingo Bird Sanctuary (19°05'37''N and 72°35'38''E; 19°05'37''N and 72°35'42''E). The specimens have been deposited at the NZC ZSIK. It has been published by Daizy Bharti and Santosh Kumar in the journal: *Records of Zoological Survey of India*, 119 (2): 111-119, 2019.

Anteholosticha intermedia (Bergh, 1889) Berger, 2006



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- *Pallisentis meyeri* Gautam, Misra & Saxena
- *Pallisentis unnaoensis* Gautam, Misra & Saxena
- *Pambolus (Phaenodus) shujai* Ahmad, Ghramh and Ansari.
- *Pancorius nagaland* Caleb, Bera, Acharya and Kumar
- *Pangio bhujia* Anoop, Britz, Arjun, Dahanukar and Raghavan.
- *Paracanthocobitis tumitensis* Arunkumar and Moyon
- *Parachremylus trachysi* Ahmad, Ghramh and Ansari.

- *Paradiscogaster mannari* Palsamy, Raju, Sanil and Rokkam.
- *Paraedes jambulingami* Natarajan
- *Paraleyrodes minei* Iaccarino, 1990
- *Paraplectana mamoniae* Basumatary and Brahma.
- *Parasa neoherbifera* Katewa and Pathania.
- *Paratelenomus anu* Rajmohana, Sachin, Talamas, Shamyasree, Jalali and Rakshit.
- *Paraustrorhynchus smeetsae* Lin, Reygel, Feng, Chen, Tessens, Steenkiste, Schockaert, Artois and Wang
- *Paraxanthodes cumatodes* (MacGilchrist, 1905)
- *Parvuspina tawaghatensis* Singh, Kirti & Datta
- *Pealius satakshiae* Dubey and Singh.
- *Peloribates grandis* Willman, 1930
- *Periclimenella agattii* Bharathi, Purushothaman, Akash, Jose, Madhavan, Dhinakaran, Saravanane, Kumar and Lal.
- *Pethia arunachalensis* Shangningam, Kosygin and Chowdhury
- *Phanuromyia flaviabdominalis* Veenakumari and Prashanth.
- *Phanuromyia levigatus* Veenakumari and Prashanth.
- *Phanuromyia reticulata* Veenakumari and Prashanth.
- *Phanuromyia rufocoxalis* Veenakumari and Prashanth
- *Phanuromyia shashikalae* Veenakumari and Prashanth
- *Phanuromyia tamaris* Veenakumari and Prashanth.
- *Pheropsophus devagiriensis* Venugopal and Thomas.
- *Pheropsophus indicus* Venugopal and Thomas.
- *Philoplitis keralensis* Ranjith, Fernandez-Triana, Veena, Priyadarsanan and Nasser.
- *Philoplitis trifoveatus* Ranjith, Fernandez-Triana, Veena, Priyadarsanan and Nasser
- *Phlegra abhinandanvarthamani* Prajapati
- *Phtisica marina* Slabber, 1769
- *Physoschistura ranikhetensis* Singh and Das.
- *Piranthus planolancis* Malamel, Nafin, Sudhikumar and Sebastian.
- *Platygaster harpagoceras* Popovici & Veenakumari.
- *Platystethynium glabrum* Jin & Li 2016
- *Polypedates bengalensis* Purkayastha, M. Das, Mondal, Mitra , Chaudhuri and I. Das
- *Polysphincta idukkiensis* Manjusha, Sudheer and Ghosh
- *Potamanthellus caenoides* Ulmer, 1939
- *Proahaetulla antiqua* Mallik, Achyuthan, Ganesh, Pal, Vijayakumar and Shanker.
- *Protorthaltica setosella* Nadein and Perkovsky.
- *Protothea decemguttata* (Hoàng, 1983)
- *Pseudoceros agattiensis* Dixit, Bayyana, Manjebrayakath, Saravanane and Sudhakar
- *Pseudoceros stellans* Dixit, Bayyana, Manjebrayakath, Saravanane and Sudhakar.
- *Pseudolaguvia flavipinna* Bhakat
- *Pseudoliotia henjamensis* (Melvill & Standen, 1903)
- *Pseudomonilicaryon falciforme* (Kahl, 1931) Vďacny and Foissner, 2012
- *Pseudosubhimalus trilobatus* Niranjana, Meshram, Shashank, Stuti, and Hashmi.
- *Pseudozaphanera narendramodii* Ragupathy and Radhakrishnan.
- *Psilorhynchus bichomensis* Shangningam, Kosygin and Gopi.
- *Pteropsaron indicum* Victor and Kumar.
- *Ptilotrypa bajpaii* Swami, Ernst, Tripathi, Barman, Bharti & Rana.
- *Puntius kyphus* Plamoottil
- *Pushpaleyrodes glandulus* Sundararaj and Vimala.
- *Rhinolambrus lippus* (Lanchester, 1901)
- *Rhoenanthus (Rhoenanthus) tungaiensis* Balasubramanian, Muthukatturaja and Anbalagan.
- *Rhogadopsis gratia* Gupta, Achterberg, Ballal, Maczey, Djeddour, Bhutia and Rajeshwari
- *Rhogadopsis macrusa* Gupta, Achterberg, Ballal, Maczey, Djeddour, Bhutia and Rajeshwari.
- *Rigidosticha italiensis* Bharti, Kumar and La Terza, 2016
- *Rimaleptus mucronatus* (Penard, 1922) Vďacny, Orsi, Bourland, Shimano, Epstein and Foissner, 2011
- *Rohdendorfia bella* Mengual and Barkalov
- *Roptrocerus mirus* (Walker, 1834)
- *Rostrulium indicum* Islam, Imran & Ahmad.
- *Sarcosolomonia* (s. str.) *shinonagai* Kano & Sooksri, 1977
- *Sarmydus nicobarensis* Majumder, Drumont, Chandra and Dubey.
- *Scaphotettix arcuatus* Viraktamath & Webb
- *Scheloribates giganteus* Hammer, 1961
- *Schenkelia aurantia* Kanesharatnam & Benjamin, 2018
- *Schistura rebuw* Choudhury, Dey, Bharali, Sarma and Vishwanath.
- *Schistura syngkai* Choudhury, Mukhim, Dey, Warbah and Sarma
- *Scirtothrips hitam* Ng, Mound and Azidah, 2014
- *Scutellonema bengalensis* Sen.
- *Scymnus (Pullus) utilis* Hoang 1982
- *Selaserica hosanagarana* Sreedevi, Ranasinghe, Fabrizi and Ahrens.
- *Serangium clauseni* (Chapin)
- *Serica (s. str.) eberlei* Sreedevi, Ranasinghe, Fabrizi and Ahrens.
- *Sicaguttur kailashi* Haldar, Gantait & Rizvi
- *Sikkimiana arunachalensis* Chandra, Kumar, Saini and Ghosh.
- *Simulium (Gomphostilbia) agasthyamalaiense* Vijayan, Anbalagan, Rekha, Dinakaran and Krishnan.
- *Simulium (Gomphostilbia) kumbakkaraiense* Anbalagan, Vijayan, Dinakaran and Krishnan.
- *Simulium (Simulium) yanaense* Anbalagan, Vijayan, Balachandran and Dinakaran.
- *Sinella jaldaparaensis* Mandal, Suman and Bhattacharya
- *Singillatus parapectitus* Viraktamath & Meshram
- *Singillatus serratispatulatus* Viraktamath & Meshram.
- *Smithophis atemporalis* Giri, Gower, Das, Lalremsanga, Lalronunga, Captain, & Deepak.
- *Sphaeroderma cruenta* Prathapan, Poorani, Kumari, Anuradha, Padmanaban and Thanigairaj.
- *Sphaerotheca magadha* Prasad, Dinesh, Das, Swamy, Shinde and Vishnu
- *Sphingonotus (Sphingonotus) changlangensis* Gupta, Chandra and Husemann.

- *Spilomyia manicata* (Rondani, 1865)
- *Stephostethus bisinuaticollis* Pal.
- *Stephostethus foveatus* Pal.
- *Stephostethus sinuaticollis* Pal
- *Stephostethus tibialis* Pal.
- *Stethorus gangliiformis* Li, Chen and Ren 2013
- *Stigmus convergens* Tsuneki, 1954
- *Stylostomum mixtomaculatum* Pitale and Apte.
- *Sycoscapter benghalensis* Pramanik and Dey.
- *Sycoscapter benjaminae* Pramanik and Dey
- *Telenomus ekadanta* Veenakumari and Prashanth
- *Telenomus elegans* Veenakumari and Prashanth.
- *Teleopsis amnoni* H.R. Feijen and C. Feijen.
- *Tetragonula (Flavotetragonula) calophyllae* Shanas and Faseeh.
- *Tetragonula (Tetragonula) perlucipinnae* Faseeh and Shanas
- *Tetragonula (Tetragonula) travancorica* Shanas and Faseeh
- *Teuloma falsinebulosa* Singh, Kirti, Datta, Joshi and Volynkin
- Teuloma microoblitterans Singh, Kirti, Datta, Joshi and Volynkin.
- *Teuloma neooblitterans* Singh, Kirti, Datta, Joshi and Volynkin
- *Thalamita macrodonta* Borradaile, 1902
- *Thaumasura indica* Binoy and Sureshan
- *Thecacera pacifica* (Bergh, 1884)
- *Theridion odisha* Prasad, Tyagi, Caleb and Kumar
- *Thor hainanensis* Xu and Li, 2014
- *Thraulus thiagarajani* Balasubramanian and Muthukatturaja.
- *Thrissina cultella* Hata, Motomura.
- *Tiphia kashmirensis* Hanima, Kumar, Sureshan and Sheikh
- *Toccolosida nigraregina* Singh, Chandra, Kirti and Ranjan.
- *Torpedo polleni* (Bleeker, 1865)
- *Torrenticola chatterjeei* Pesic, Smit and Bahuguna.
- *Torrenticola uttarakhandensis* Pesic, Smit and Bahuguna
- *Trachischium apteii* Bhosale, Gowande and Mirza
- *Trachypholis foveolata* Pal.
- *Trapezia lutea* Castro, 1997
- *Trinoridia dialata* Viraktamath & Meshram.
- *Trinoridia ochrocephala* Viraktamath & Meshram
- *Trinoridia piperica* Viraktamath & Meshram
- *Trinoridia ramamurthyi* Viraktamath & Meshram
- *Trinoridia saraikela* Viraktamath & Meshram
- *Trinoridia timlivana* Viraktamath & Meshram
- *Trinoridia tripectinata* (Nielson) 1982
- *Undabracon binduae* Ranjith, Belokobylskij and Nasser
- *Unilox lataguriensis* Roy and Chakrabarti
- *Urosoma karinae* (Ehrenberg, 1833) Berger, 1999
- *Volcanosuchus statisticae* Datta, Ray and Bandyopadhyay
- *Webbolidia andamana* Viraktamath & Meshram
- *Xanthopimpla elegans kadnurensis* Manjusha, Sudheer and Ghosh. – Karnataka
- *Xanthopimpla elegans priyadarsanani* Manjusha, Sudheer and Ghosh– Karnataka
- *Xanthopimpla exigua exigua* Krieger, 1914
- *Xanthopimpla laticeps liturata* Townes and Chiu, 1970
- *Xanthopimpla nigritarsis wayanadensis* Manjusha, Sudheer and Ghosh. – Kerala
- *Xanthopimpla verrucula apheles* Townes and Chiu, 1970
- *Xestophrys namtseringa* Kumar, Chandra and Saini
- *Xiphinema parachambersi* Maria, Ye, Yu and Gu, 2018
- *Xiphonectes iranjae* Crosnier, 1962
- *Zhangolidia weicongi* Viraktamath & Meshram.

NOTE

NOTE

Exploration of organisms is a dynamic process and the Zoological Survey of India has been periodically publishing the 'Animal Discoveries' from India since 2007 dealing with newly described faunal species and first record of species to country. The current edition for year 2019 dealt with 364 species under various groups of animal new to science and 116 newly recorded to India and it makes India's faunal diversity to the account of 1,02,616 species.

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ISBN 978-81-8171-548-7

Published by
The Director
Zoological Survey of India
M-Block, New Alipore
Kolkata – 700 053

XPRESSIONS-929552563 | DOC No. XPS03062019 70