



# ZSI enews



सत्यमेव जयते



Ministry of Environment,  
Forest and Climate Change



## From the Director's Desk



Indeed it gives me an immense pleasure to release the October 2022 E News of ZSI to the readers. During the month ZSI headquarters and 16 Regional Centres were actively participated in Special Campaign 2.0 for the disposal of pending matters from 2<sup>nd</sup> to 31<sup>st</sup> October 2022. As a result of this campaign, ZSI has cleared the office space of about 17309 sq. ft. by disposing obsolete material and generated the revenue of Rs. 26,40,682/-. Memorandum of understanding was signed with Fakir Mohan University, Odisha for undertaking collaborative research in zoology. During the course of Special Campaign 2.0, the Coastal Cleanup activities have been undertaken by ZSI in different localities in Indian peninsular coast and Island coast by involving School and College students. Altogether 13 beaches to the stretch of 16 km have been cleaned up with the participation of 673 school and college students besides the staff of ZSI. A total of 139 DNA barcodes of 29 species have been generated and submitted to the GenBank.

I appreciate all the officers and staff of ZSI for their active participation in Special Campaign 2.0 to achieve the target.

Jai Hind

Dr. DHRITI BANERJEE  
Director  
November 9<sup>th</sup>, 2022  
Kolkata

October  
2022  
Vol. 44

Monthly E-Newsletter from  
Zoological Survey of India  
© Government of India

Published by  
The Director,  
Zoological Survey  
of India, Kolkata,  
INDIA

Edited by  
Dr. Dhriti Banerjee  
Dr. C. Raghunathan  
Dr. S. Sheela

Citation:  
Zoological Survey  
of India, 2022:  
E-NEWS, 44: 1-14

Email: [director@zsi.gov.in](mailto:director@zsi.gov.in)  
Website: [www.zsi.gov.in](http://www.zsi.gov.in)  
Cover photo: Bengal Gray  
Langur *Semnopithecus  
entellus* (Dufresne, 1797)

## HEADQUARTERS, KOLKATA

Surveys conducted to Purulia, Jhargram & West Midnapore in West Bengal from 11<sup>th</sup> to 22<sup>nd</sup> October 2022, Manas National Park, Assam from 12<sup>th</sup> to 22<sup>nd</sup> October 2022 and Uttarakhand from 18<sup>th</sup> September to 12<sup>th</sup> October 2022. Two new species, *Aporichthys bajpaii* Singh & Kosygin, 2022 (Cypriniformes):

Nemacheilidae) and *Caissa aruna* N. Singh & Ahmad, 2022 (Insecta: Lepidoptera) are described while reporting *Caissa medialis* Yoshimoto, 1994 belonging to Lepidoptera as new record to India. A total of 596 species added to the online Catalogue of Indian Lepidoptera. Altogether, 3183 specimens comprising

897 species have been identified from different faunal groups. Among them 26 species are newly augmented to National Zoological Collections of ZSI from different faunal groups. Compiled the details of critically endangered species as per IUCN data and submitted to the Director General of Forest,

MoEFCC as required for Parliamentary Standing Committee on Science and Technology and Environment and Climate Change, Rajya Sabha; prepared the consolidated report of Special Campaign 2.0 for disposal of pending matters of ZSI and submitted to the MoEFCC on 30<sup>th</sup> October 2022.

Dr. Dhriti Banerjee, Scientist- G & Director, ZSI conferred with an award "ESDA Women Empowerment Award 2022" for contribution in the field of Tiger Conservation and Forest conservation. MoU signed between ZSI and Department of Zoology, Fakir Mohan University, Odisha on Research collaboration on 20<sup>th</sup> October 2022.

## NORTH EASTERN REGIONAL CENTRE, SHILLONG, MEGHALAYA

Altogether 69 specimens comprising 19 spp. belonging to amphibians, fishes and crabs were identified. 15 Students from Digboi College visited museum on 19<sup>th</sup> October 2022. Advisory services rendered to Department of Earth Science, IIT Roorkee. National Integration Pledge was taken by officers and staff of NERC, Shillong on 31<sup>st</sup> October 2022. Anti-Corruption Pledge was taken by officers and staff of NERC, Shillong on 31<sup>st</sup> October, 2022



Rashtriya Ekta Diwas pledge



Integrity pledge



Atlas moth  
*Attacus atlas*  
(Linnaeus,  
1758)

Chitradurga district, Karnataka. Identified a total of 41 species belonging to Decapoda, Coleoptera (aquatic) and Amphibia, of which 20 species were from current surveys and 21 species from backlog collections. Weeding out of old records under Swachhata Campaign 2.0 is under progress.

Limpet *Cellana radiata*  
(Born, 1778)



## WESTERN REGIONAL CENTRE, PUNE, MAHARASHTRA

Three surveys were conducted at Important Bird Areas (IBAs) and Important Coastal & Marine Biodiversity Areas (ICMBAs) of Goa, Kali Tiger Reserve, Uttara Kannada district, Karnataka and Jogimatti Wildlife Sanctuary,

## CENTRAL ZONE REGIONAL CENTRE, JABALPUR, MADHYA PRADESH

Interaction with  
students of Central  
Academy



Total 72 species belonging to Orthoptera: 15 species; Lepidoptera: 32 species, Hemiptera: 11 species; Scorpion: 4 species; Mollusca: 07 species; Amphibia: 03 species were identified.

## DESERT REGIONAL CENTRE, JODHPUR, RAJASTHAN

A total of 793 examples referable to 52 species (4 species of Gastropoda, 45 species of insects & 3 species of Pisces) have been identified and registered. All the staff participated in Special Campaign 2.0 for the disposal of Pending Matters from 2<sup>nd</sup> to 31<sup>st</sup> October 2022. Participated in the cleanliness of various selected area in the office premises. FIT INDIA RUN 3.0 -part of the celebrations of the AKAM has been organized and in this connection Yoga session was organized at Centre on 28<sup>th</sup> October, 2022.

### Special Campaign 2.0 for disposal of pending matters



Before E-waste materials

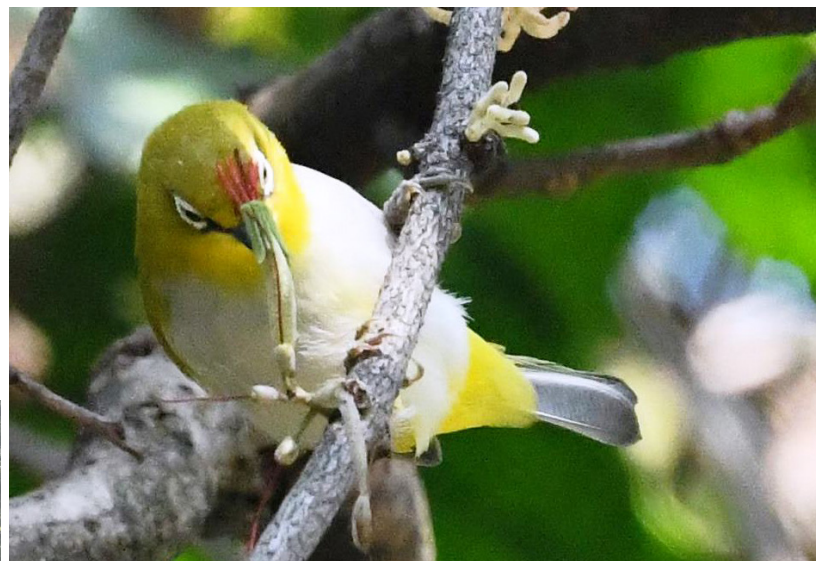


After disposal and auctioned E-Waste

## NORTHERN REGIONAL CENTRE, DEHRADUN, UTTARAKHAND

Celebration of  
Wildlife Week

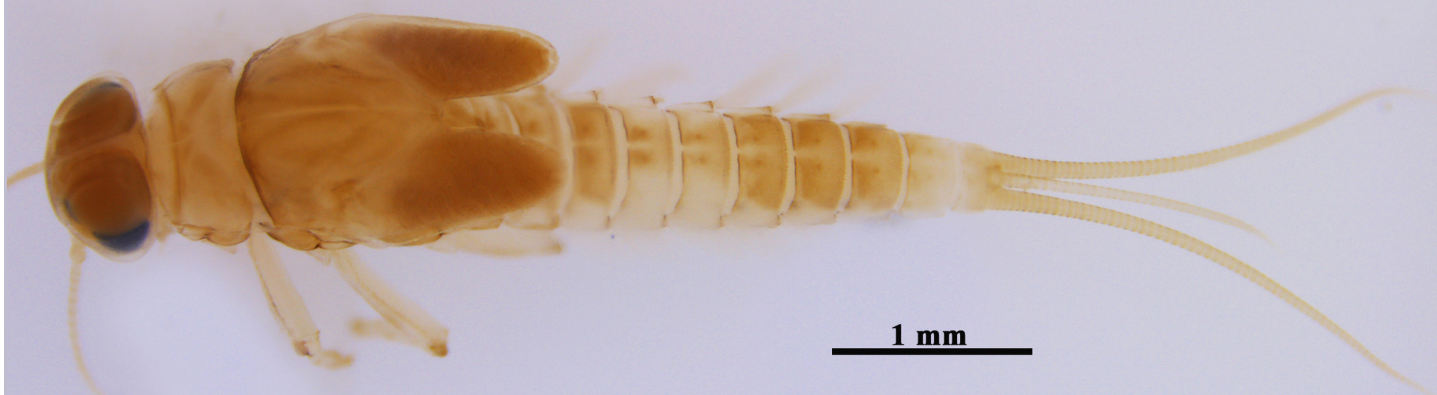
*Zosterops palpebrosus*  
(Temminck, 1824)



Scientists of the centre identified 55 species belonging to eight faunal groups i.e., Protozoa, Phthiraptera, Odonata, Lepidoptera, Orthoptera, Pisces, Amphibia and Reptilia. Wildlife Week Function organized from 2<sup>nd</sup> to 7<sup>th</sup> October 2022; organized Wildlife Awareness Rally and Wildlife Painting Competition, Special Campaign 2.0 Cleanliness Drive and Awareness Rally on 2<sup>nd</sup> October 2022. Organized in house seminar to popularize the "Ayurvadea among the general people" under the banner of Ministry of Ayush programme on Azadi ka Amrit Kaal.

## SOUTHERN REGIONAL CENTRE, CHENNAI, TAMIL NADU

Two new species and two new records of the genus *Tenuibaetis* Kang & Yang, 1994 (Ephemeroptera: Baetidae) were described from the Indian Himalaya. A field survey was undertaken in Himachal Pradesh, and scat samples of rhesus macaques were collected in connection with studies on the phylogeography and colonisation history of Indian Rhesus macaques (*Macaca mulatta*), and conducted status survey of endemic turtles *Indotestudo travancorica* and *Vijayachelys sylvatica* in the Western Ghats of Karnataka. A total of 55 species from Ephemeroptera, Odonata, Lepidoptera, Plecoptera, Mollusca, Amphibia and Reptiles were identified during the month. The scientists reviewed manuscripts for two SCI journals.



*Tenuibaetis himani* Kubendran, Vasanth & Subramanian, 2022



*Tenuibaetis kangi* Kubendran, Vasanth & Subramanian, 2022

## HIGH ALTITUDE REGIONAL CENTRE, SOLAN, HIMACHAL PRADESH

A total of 182 specimens of insects and fishes comprising 31 species were identified. Reviewed three manuscripts for the *Records of Zoology* and provided identification services Lovely professional University, Phagwara, Punjab. Organized "Ayurveda Everyday Ayurveda Everywhere" under theme "Har Din Har Ghar Ayurved" on 19.10.2022. Organized a lecture/ Yoga camp at ZSI, Solan from Sh. Suresh Sharma, Yoga Shikshak, Yog Vidiya Gurukul Nasik, Maharashtra, NGO, Yova Swabhimani, Solan, Himachal Pradesh on 19.10.2022 under the theme "Azadi ke 75 saal, fitness rahe bemisaal". Under the Swacchta campaign 2.0, Auctioned 5222 kg of metallic items through MSTC, cleared 650 sq ft space and generated Rs. 2, 28,138/-, disposed of 170 kg of papers and free 30 sq. ft space and generated revenue of Rs. 2550/- and Weeded out 150 file of C category.

### Reviewing of files



## MARINE BIOLOGY REGIONAL CENTRE, CHENNAI, TAMIL NADU



*Spiroloculina depressa*  
d'Orbigny, 1826

Scientists of the centre have undertaken three one-day local surveys to local fish landing centre and collected a total of 104 fish specimens. A total of 67 species from 219 specimens were identified and registered in MBRC, Chennai, which include marine sponges 12 species, scleractinian corals 4 species, Bryozoa 7 species, Foraminifera 5 species, Mollusca 17 species, and Fishes 22 species.



*Monalysidium confusa*  
(McCulloch, 1977)

## ANDAMAN AND NICOBAR REGIONAL CENTRE, PORT BLAIR

*Neoscona pseudonautica*  
Yin, Wang, Xie & Peng, 1990



One long term survey conducted to Great Nicobar Island from 1<sup>st</sup> to 15<sup>th</sup> October, 2022 to study the terrestrial and marine ecosystem. Fifteen days local field surveys were conducted to South Andaman to study the terrestrial and marine faunal diversity. A total of 432 species were identified which comprised of coral 79 species, Heliporacea 1 species, Zoantharia 2 species, Fishes 66 species, Mollusca 78 species and echinoderms 15 species from the marine environment; and Arachnida 66 species; Lepidoptera 70 species; birds 55 species from the terrestrial environment. Identified 5 species of echinoderms and 2 species of molluscs to the Department of Environment & Forests, A&N Is. Swachhta Campaign 2.0, has been organized during 1<sup>st</sup> to 31<sup>st</sup> October 2022. Provided information on Migratory birds to the students of Navy Children School as a part of Project work on 12<sup>th</sup> October 2022.

*Heteractis magnifica* (Quoy & Gaimard, 1833)



## SUNDERBAN REGIONAL CENTRE, CANNING, WEST BENGAL

A total of 95 species containing 71 species of fish, 23 species of Mollusca and, 1 species of Echinoderm. Digitized 44 files were identified. The Special Campaign 2.0 from 2<sup>nd</sup> to 31<sup>st</sup> October 2022 report was submitted on 31<sup>st</sup> Oct., 2022. Rashtriya Ekta Diwas pledge and Vigilance pledge have been taken by Staff members on 31<sup>st</sup> October 2022.

## FRESHWATER BIOLOGY REGIONAL CENTRE, HYDERABAD, TELANGANA



*Lissemys punctata*  
(Lacépède, 1788)

*Pseudibis papillosa*  
(Temminck, 1824)



The scientists, staff and research scholars of the centre examined 1025 specimens from Nagarkurnool, Nirmal, Jogulamba Gadwal and Ranga Reddy districts, Telangana, Kinnersani and Pakhal Wildlife Sanctuary, Telangana; Alluri Sitarama Raju, Guntur, Kurnool and Visakhapatnam districts, Andhra Pradesh; Parbhani district, Maharashtra; and identified 19 species of Aquatic Coleoptera from 93 exs., 12 species of Aquatic Hemiptera from 88 exs., 4 species of Ostracoda from 120 exs., 8 species of Branchiopoda from 197 exs. 10 species of Mollusca from 200 exs., 4 species of Reptilia from 4 exs., and 31 species of fishes from 319 exs during the month of October. As part of the digitization of the National Zoological Collections of the centre, 125 were digitized. One field survey has been conducted to Kinnersani and Pakhal Wildlife Sanctuary, Telangana from 3<sup>rd</sup> to 18<sup>th</sup> October 2022. 9 sequences have been submitted to NCBI. World Wild life week was observed on 3<sup>rd</sup> October 2022.

## ESTUARINE BIOLOGY REGIONAL CENTRE, GOPALPUR-ON-SEA, ODISHA

Survey to Bahuda estuary has been conducted in which 341 specimens were collected. During this month 367 specimens belonging to 106 species were identified. Eight DNA barcodes were uploaded in the NCBI database. On 17<sup>th</sup> October, 2022, International Sawfish Day was celebrated at Estuarine Biology Regional Centre, Zoological Survey of India, Gopalpur-on-Sea in the presence of all staff and research scholars of EBRC. Shri. S.S. Mishra, Former Scientist, EBRC, ZSI delivered a talk on sawfish distribution, population, threats and conservation measures. Dr. Bibhusita Pani, Research Scientist, School of Medicine, New York University made a visit to Estuarine Biology Regional Centre and interacted with Scientists and Research Scholars on 10<sup>th</sup> October, 2022. She shared her research on “Therapeutic targeting of cellular stress responses in Neurodegeneration and cancer”.

Lecture by  
Dr. Bibhusita  
Pani,  
Research  
Scientist,  
School of  
Medicine



International  
Sawfish Day  
celebration

## ARUNACHAL PRADESH REGIONAL CENTRE, ITANAGAR



*Zhangixalus suffry* (Bordoloi,  
Bortamuli & Ohler, 2007)

A total of 45 species identified containing Lepidoptera 27 spp., Orthoptera 13 spp., Amphibia 1 sp. and Reptilia 4 spp. Officers and staff of the APRC participated in the Implementer Phase (2<sup>nd</sup> to 31<sup>st</sup> October 2022) of the Special Campaign 2.0 for disposal of pending matters.

*Oedaleus abruptus*  
(Thunberg, 1815)



# MARINE AQUARIUM AND REGIONAL CENTRE, DIGHA, WEST BENGAL

Scientists of the centre identified 51 species belonging to fishes 18 spp., Polychaete 06 spp., marine molluscs 25 spp. and mammal 1 sp. Conducted 03 days local survey to Udaypur and Digha, West Bengal. As a part of "Fit India Freedom Run 3.0" campaign conducted a running event along the beach lane of MARC, ZSI Digha on 31<sup>st</sup> October 2022. National Unity Day (Rashtriya Ekta Diwas) is observed on 31<sup>st</sup> October 2022.

*Pterynotus alatus*  
(Röding, 1798)



National Unity Day



## NEW DISCOVERIES AND NEW RECORDS

### NEW SPECIES

*Aborichthys  
bajpaii* Singh &  
Kosygin, 2022  
(Cypriniformes:  
Nemacheilidae)



## PUBLICATIONS

### BOOK

1. Ramakrishna and C. Sivaperuman 2022. History of Zoology and Present Status in India. Write and Print Publishers, New Delhi.

### BOOK CHAPTERS

1. Hassan, M. E. and Saha, P. C. 2022. Hemipteran fauna and potential predators of agroecosystem of Bihar (Published by DZSI).
2. Hassan, M. E. and Saha, P. C. 2022. INSECTA: HEMIPTERA: HETEROPTERA. In: Fauna of Sagar Island, West Bengal (Published by DZSI).

### PAPERS

1. Datta, R., Maity, P., Bhadury, P., Rizvi, A.N. and Raghunathan, C., 2022. An updated checklist of free-living marine nematodes from Coastal India. *Zootaxa*, 2196 (2): 151–196.
2. Ghosh, D., Kar, O., Pramanik, D., Mukherjee, A., Sarkar, S., Mukherjee, K., and Banerjee, D. 2022. Molecular identification and characterization of Muscid flies (Diptera: Muscidae) of medico-veterinary importance from the Gangetic Plains of Eastern India. *International Journal of Tropical Insect Science*, 1–11.
3. Singh, N., Ranjan, R., Talukdar, A., Joshi, R., Kirti, J.S., Chandra, K. and Mallt, R. 2022. A catalogue of Indian Pyraloidea (Lepidoptera). *Zootaxa*, 5197 (1): 1–423.
4. Singh, N. and Ahmad, J. 2022. A new species and a new species record of *Caissa* Hering from India (Lepidoptera: Limacodidae). *Zootaxa*, 5200 (1): 96–100.
5. Singh, P. and Kosygin, L. 2022. *Aborichthys bajpaii*, a new species of loach (Nemacheilidae) from Eastern Himalaya,

India. *Journal of Ichthyology*, DOI: 10.1134/S0032945222050162.

6. Kubendran, T., Vasanth, M., Subramanian, K. A., Gattolliat, J.-L., Selvakumar, C. and Fatima Jabeen (2022). Two new species and two new records of the genus *Tenuibaetis* Kang & Yang, 1994 (Ephemeroptera: Baetidae) from Indian Himalaya. *Zootaxa*, 5196 (4): 511–534.
7. Manpreet Kaur, Jagbir Singh Kirti and Avtar Kaur Sidhu (2022). Taxonomic study of the genus *Gandaca* Moore (Lepidoptera: Pieridae) from India. *Eco. Env. & Cons.* 28 (May Suppl. Issue): S572–S578.

## POPULAR ARTICLES

1. Bahuguna, Archana. 2022. Rukmani Krishnamurthy First Forensic Lady of India, *Science Reporter* (Oct 2022), 44–45.

## MEETINGS ATTENDED

1. Dr. Dhriti Banerjee, Scientist- G & the Director, ZSI, attended 18<sup>th</sup> Meeting of Committee XII - 'Geoscience for Sustainable Development' of the Central Geological Programming Board (CGPB), GSI at Shastri Bhawan, New Delhi held under the chairmanship of Smt. Veena Kumari Dermal, Joint Secretary [Policy], Ministry of Mines on 4<sup>th</sup> Oct., 2022, and participated in discussion on Action Plan and timeline for pursuing the activities listed in MoU signed/ proposed between GSI, CGWB and state Governments relating to Fluoride and Uranium; attended a meeting under the chairmanship of the AGF (Project Tiger) and CITES Management Authority at EFCC, New Delhi on 7<sup>th</sup> Oct. 2022; conducted a visit of Kushal Karthik S., Deputy Director, Indian Audit and Accounts department at ZSI, HQs on 13<sup>th</sup> Oct., 2022; attended a meeting held under the Chairmanship of Shri Tanmay Kumar, Additional Secretary for filling up the vacancies in the organisation 13<sup>th</sup> Oct., 2022; attended the Entomological Society of India (ESI) Annual Workshop includes ESI Awards Ceremony, Annual Lecture and Felicitation, virtually at Indian Agricultural Research Institute, New Delhi held on 14<sup>th</sup> Oct., 2022; virtual Meeting with Phil Gaubert, Evolution and Biological Diversity Laboratory (EDB), Paul Sabatier University 14<sup>th</sup> Oct., 2022; chaired the 3<sup>rd</sup> World Environment Summit 2022 organised by Environment and Social development Association as International Conference (ESDACon-2022) Delhi held on 15<sup>th</sup>-16<sup>th</sup> Oct., 2022 (hybrid mode) at JNU, New Delhi; meeting regarding coordination with between FSI, BSI and ZSI on 17<sup>th</sup> Oct., 2022; attended a meeting to discuss Biodiversity & Habitat (BDH) indicators under the chairmanship of senior Economic Advisor on 28<sup>th</sup> Oct., 2022.
2. Dr. C. Raghunathan, Scientist- F, ZSI, attended the meeting to discuss coordination issues between FSI, ZSI and BSI organised by DG. FSI on 3<sup>rd</sup> Oct., 2022 in virtual mode and made a presentation about the activities of ZSI; meeting with PCCF, Andaman and Nicobar Islands regarding the preparation of Environment Management Plan for Holistic Development of Great Nicobar Island held on 12<sup>th</sup> Oct., 2022 through VC mode; attended the coordination meeting of ZSI, BSI and FSI chaired by Hon'ble Minister, MoEFCC on 17<sup>th</sup> Oct., 2022 through VC mode; Chaired the review meeting to assess the progress of ZSI Regional Centres JRF and SRF held on 17<sup>th</sup> Oct., 2022 through VC mode; preparatory meeting of Parliamentary Standing Committee on Science and Technology and Environment and Climate Change, Rajya Sabha chaired by the Director General of Forests, MoEFCC on 26<sup>th</sup> Oct., 2022 at MoEFCC, New Delhi for Critically Endangered species; attended the meeting under the Chairmanship of Additional Director General of Forests (WL) to discuss the issues of ZSI and BSI held at MoEFCC on 27<sup>th</sup> Oct., 2022.
3. Dr. P.S. Bhatnagar, Scientist-E attended MP state Wildlife Board Meeting in Bhopal on 13.10.2022.
4. Dr. Archana Bahuguna, Scientist-E attended online meeting for Swachhata Abhiyaan 2 on 19<sup>th</sup> Oct., 2022 Chaired by The Additional Secretary, MoEFCC through virtual mode.
5. Dr. Basudev Tripathy, Scientist-E along with Dr. S.R. Patil, Assistant Zoologist attended review meeting on Sachhata Campaign 2.0 & Updation of land & building records of various Ministries/ Departments on Government Lang Information System (GLIS) on virtual mode organized by MoEFCC; Committee XII -Geoscience for Sustainable Development' of the CGPB held on 4<sup>th</sup> Oct., 2022 on virtual mode; River rejuvenation-Bioreactor organised by Joint Commissioner, Pune on 3<sup>rd</sup> Oct., 2022 on virtual mode; attended a meeting to discuss biodiversity and habitat related indicator on 28<sup>th</sup> Oct., 2022 organised by MoEFCC on virtual mode.
6. Dr. Basudev Tripathy, Scientist-E and HOO, Dr. Aparna S. Kalawate, Scientist-E and Dr. K.P. Dinesh, Scientist-E attended an online meeting under the chairmanship of Ms. Rajasree Ray, Economic Advisor to review the preparation of FIT India Freedom Run 3.0 on 20<sup>th</sup> Oct., 2022 organized by MoEFCC.
7. Dr. C. Sivaperuman, Scientist-E attended the Inaugural and Valedictory Function of Wildlife Week 2022 at A&N Forest Department on 3<sup>rd</sup> & 8<sup>th</sup> Oct. 2022; Inaugural

- Function of Primary Wing, Navy Children School, Port Blair on 8<sup>th</sup> Oct. 2022; Ph.D. Synopsis seminar at Regional Medical Research Centre, Port Blair on 18<sup>th</sup> Oct. 2022; attended meeting under the DIG (Wildlife) for the fund flow and transition for the on-going training sponsored by the Division of Research & Training, MoEFCC on 12<sup>th</sup> Oct. 2022; meeting of the District Environment Impact Assessment, A&N Is. On 18<sup>th</sup> Oct. 2022; attended meeting under the Chairmanship of the Secretary (Tourism), for the preparation of guidelines for diving and snorkeling on 14<sup>th</sup> Oct. 2022; District Environment Impact Assessment under the Chairmanship of Deputy Commissioner, South Andaman on 18<sup>th</sup> Oct., 2022; Meeting in connection with Swachhta campaign 2.0, GLIS under the Chairman of Shri. Tanmay Kumar, Additional Secretary (Administration) on 14<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup> & 27<sup>th</sup> Oct., 2022.
8. Dr. C. Venkatraman, Scientist-E, attended virtual Swachhata Campaign 2.0 hosted by MoEFCC, New Delhi on 12<sup>th</sup>, 17<sup>th</sup>, 19<sup>th</sup> and 27<sup>th</sup> Oct., 2022.
  9. Dr. Gaurav Sharma, Scientist-E attended Special Campaign 2.0 Cleanliness Drive meeting Chaired by The Additional Secretary, MoEFCC through virtual mode on 13<sup>th</sup> and 27<sup>th</sup> Oct., 2022.
  10. Dr. K.K. Bineesh, Scientist-E, attended the Shark International Conference held at Valencia, Spain during 20<sup>th</sup>-22<sup>th</sup> Oct., 2022.
  11. Dr. S. D. Gurumayum, Scientist-E, attended the online Meeting hosted by MoEFCC under the Chairmanship of the Additional Secretary, MoEFCC, Shri Tanmay Kumar, on the 19<sup>th</sup> Oct., 2022, regarding the progress of the Special Campaign 2.0, Vacancy and GLIS.
  12. Dr. Souvik Sen, Scientist-D, attended a virtual meeting with the Statistics Division, MoEFCC to discuss "*Biodiversity & Habitat related indicators*" on 28<sup>th</sup> Oct., 2022; attended ZSI-research scholars yearly progress assessment meeting on 17<sup>th</sup> Oct., 2022 through video conferencing.
  13. Dr. Temjenmongla, attended the online Meeting with the Additional Secretary, MoEFCC, Shri Tanmay Kumar, on the 17<sup>th</sup>, 19<sup>th</sup> and 27<sup>th</sup> Oct., 2022, regarding the progress of the Special Campaign 2.0, Vacancy and GLIS.
  14. Smt Ilona J Kharkongor, attended the online Meeting with the Additional Secretary, MoEFCC, Shri Tanmay Kumar, on the 6<sup>th</sup>, 12<sup>th</sup>, 17<sup>th</sup>, 19<sup>th</sup> and 27<sup>th</sup> Oct., 2022, regarding the Special Campaign 2.0, Vacancy and GLIS.
  15. Dr. Indu Sharma, Scientist-E participated in the Wild Life Week "Van Mahotsav" as Chief Guest on the Inaugural function celebration from (1<sup>st</sup> October- 8<sup>th</sup> October 2022) organized by the Department of Wild Life, Machia Biological Park, Jodhpur and delivered lecture regarding *Importance of Wildlife and their conservation* to the students from different Schools; participated in the Science exhibition as Chief Guest on 8<sup>th</sup> October 2022 organized by the Adarsh Vidya Mandir School, Jodhpur and delivered a Lecture on the *Importance of Biodiversity in Achieving Sustainable Development Goals* and evaluated the models prepared by different schools of Jodhpur jurisdiction; participated in the various meetings organized by MoEF & CC under the Chairmanship of AS(Admn) regarding to know the updated status/review progress of Swachhata campaign 2.0, GLIS portal on 06.10.2022, 13.10.2022, 17.10.2022, 19.10.2022, 27.10.2022; participated in the training organized by MoEF & CC for updation of GLIS portal work on 21.10.2022; participated in the meeting on 20.10.2022 under the chairmanship of Ms. Rajasree Ray, Economic Advisor, Department of Sports, Ministry of Youth Affairs and Sports, for celebrations of FIT India Freedom Run 3.0 as a part of Azadi Ka Amrit Mahotsav (AKAM).
  16. Dr. Avtar Kaur Sidhu, Scientist-E, attended online meeting on 10.09.2022 with the Additional Secretary, Shri Tanmay Kumar, IAS, MOEF&CC; Director, MOEF&CC Shri Amit Raj (IRS); Director, ZSI and other officials regarding Special Campaign 2.0 for disposal of Pending Matters from 2<sup>nd</sup> October, 2022 to 31<sup>st</sup> October, 2022; Attended online meeting on 13.10.2022 with the Additional Secretary, Shri Tanmay Kumar, IAS, MOEF&CC regarding updating of land & building records, Swachhta Campaign 2.0, and vacancy report; attended Research Advisory Committee on 19.10.2022 through VC under the under the chairmanship of Pr. CCF (WL) H.P.
  17. Dr. P.C. Pathania, Scientist-E, attended Forth Review Meeting: Compiling state wise species diversity data with the Director, ZSI, Kolkata on 01.10.2022; Attended Research advisory group Meeting of the Himalayan Forest Research Institute, Panthghatti, Shimla on 03.10.2022.
  18. Dr. S. S. Jadhav, Scientist D attended Review meeting of updation of Land & building records of various Ministries/Departments on Government Land Information System and Swachhata Campaign 2.0 organised by MoEFCC, New Delhi on 17<sup>th</sup> and 19<sup>th</sup> October 2022.

19. Dr. M. Karuthapandi, Scientist C attended Review meeting of updating of Land & building records of various Ministries/ Departments on Government Land Information System and Swachhata Campaign 2.0 organised by MoEFCC, New Delhi on 13<sup>th</sup> October 2022; attended a virtual meeting under the chairmanship of Mrs. Rajasree Ray, Economic Advisor, to review the preparation of FIT India Freedom Run organized by Department of Sports, Ministry of Youth Affairs and Sports on 20<sup>th</sup> October 2022.
20. Dr. M. Karuthapandi, Scientist-C and Mrs. Rehnuma Sulthana, Asstt. Zoologist attended training session for Nodal officers/Link officers for updating of GLIS portal on 21<sup>st</sup> October 2022 organized by MoEFCC, New Delhi; attended review meeting on Sachhata Campagin 2.0 & Updation of land & building records of various Ministries/Departments on Government Lang Information System (GLIS) on 27.10.2022 under the Chairmanship of AS(Admn), MoEF&CC

## LECTURES DELIVERED

3. Dr. Archana Bahuguna, Scientist-E, delivered lecture on "*Herpetofauna*" to 48 students of Alpine Group of Institutes, Dehradun at Conference Hall of ZSI, NRC, Dehradun on 12<sup>th</sup> Oct., 2022.
4. Dr. C. Sivaperuman, Scientist-E, delivered a talks on "*Biodiversity of A&N Is. vulnerability and adaptation to climate change*" at various institutions/ seminars on 11<sup>th</sup>, 17<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> Oct., 2022; Migratory Birds of A&N Is. at INS Utkrosh, Indian Navy on 28<sup>th</sup> Oct., 2022.
5. Dr. G Srinivasan, Scientist- E, delivered a talk on "*Collection, Preservation and Identification of Orthoptera*" to the visiting B.Sc. students during their visit to APRC, ZSI, Itanagar.
6. Dr. Gaurav Sharma, Scientist-E, delivered talks on "*Swachhata/ Cleanliness drive*" and "*Conservation of Wildlife in India*" in Gandhi Park, Dehradun on 2nd Oct., 2022; on "*Status of Faunal Diversity and their Conservation in India*" during Indian Wildlife Week and World Habitat Day organized by Pushpa Gujral Science City, Punjab on 3<sup>rd</sup> Oct., 2022 and at Dehradun on 7<sup>th</sup> Oct., 2022; "*Status and Conservation of Wildlife in India*" at Secondary School, Kotda Santor, Dehradun on 8<sup>th</sup> Oct., 2022 and Aamwala Govt. School, Dehradun on 11th Oct., 2022; "*Studies on Faunal Diversity and their Conservation in India*" to students of Alpine Group of Institutes, Dehradun on 12<sup>th</sup> Oct., 2022.
7. Dr. K.K. Bineesh, Scientist-E, delivered a talk titled as "*Guitarfishes and Wedgefishes in Indian fisheries: Catch, species composition, distribution and current status*" in Shark International conference held at Valencia, Spain during 20<sup>th</sup>-22<sup>th</sup> Oct., 2022.
8. Dr. L. Kosygin Singh was invited as an expert and delivered a talk on "*Types in fish taxonomy & their importance*" for the training programme on Classical Freshwater Fish Taxonomy held on 16<sup>th</sup>-20<sup>th</sup> Oct., 2022 at Imphal.
9. Dr. S. D. Gurumayum, Scientist- E, delivered a lecture on "*Ornamental fishery potential of North east India*" to the visiting B.Sc. students during their visit to APRC, ZSI, Itanagar.
10. Dr. Vasanthakumar D., Sr. Zoological Assistant delivered a lecture on the employment opportunities in the field of Zoology for the students of Zoology department, Raja Doraisingam Government Arts College, Sivagangai, Tamil Nadu on 3<sup>rd</sup> Oct., 2022.

## TRAININGS ATTENDED

1. Dr. Archana Bahuguna, Scientist-E, attended in DST sponsored online MDP on Community Resource Management which was organized by IIFM Bhopal from 17<sup>th</sup>-21<sup>st</sup> Oct., 2022.
2. Dr. Archana Bahuguna, Scientist-E, attended Training session (GLIS) for Nodal officer on 21<sup>st</sup> Oct., 2022 organized by MoEFCC.
3. Dr. K.K. Bineesh, Scientist-E, attended the IUCN workshop on Global status of Shark, Rays and Chimaeras held at Valencia, Spain during 18<sup>th</sup>-19<sup>th</sup> Oct., 2022.
4. Smt Ilona J Kharkongor participated in the Inception Workshop for the Arunachal Pradesh State Biodiversity Strategy & Action Plan held on the 14<sup>th</sup> Oct., 2022, at the Golden Jubilee State Banquet Hall, Itanagar.
5. Smt Ilona J Kharkongor, Dr. S. D. Gurumayum & Dr. Temjenmongla attended the online Training on GLIS hosted by MoEFCC under the Chairmanship of the Additional Secretary, MoEFCC, ShriTanmay Kumar, on the 21<sup>st</sup> Oct., 2022.
6. Dr. Saipari Sailo, Scientist-D, attended training on Community Resource Management for Women Scientists (online) from 17<sup>th</sup> to 21<sup>st</sup> October 2022 organized by Indian Institute of Forest Management, Bhopal.

11. Kirty Prosad Nath, SRF delivered a talk on “*Collection, Preservation and Identification of Pisces, Amphibia and Reptiles*” to the visiting B.Sc. students during their visit to APRC, ZSI, Itanagar.  
.....
12. Smt. Ilona J Kharkongor, Scientist- E, delivered a lecture on “*Taxonomy of Butterflies*” to the visiting B.Sc. students during their visit to APRC, ZSI, Itanagar.  
.....
13. Dr. U. Saikia, Sci-D delivered a talk on “*ZSI and biodiversity studies*” to the visiting students of Digboi College, Assam on 19<sup>th</sup> October, 2022.  
.....
14. Aengals, R. Scientist-E, delivered a lecture on Reptiles of Tamil Nadu to the students of Dept. of Zoology, Chennai City Colleges at Chennai Snake Park on 06.10.22.  
.....
15. K.A. Subramanian, Scientist-E delivered a lecture on “Biodiversity in Space and Time” in the Faculty improvement Course at University of Madras on 28.10.2022.  
.....
16. Dr. P. C. Pathania, Scientist\_E delivered an invited talk on the topic entitled, “Diversity of Microlepidoptera moth’s fauna from India and its economic importance” in the 9<sup>th</sup> International Conference “Recent trends in Bio and Material Sciences” at Sardar Patel University, Mandi, Himachal Pradesh on 10-11 October, 2022.  
.....
17. Dr. D. S. Suman, Scientist – E delivered an invited special lecture on “Mosquito vectors, transmitted diseases and the role of biotechnology and microbiology in their management” to the M. Sc. Students and research scholars of Microbiology, Biotechnology and Pharmacy departments of Kota University, Kota Rajasthan on 20.10.2022.  
.....