

ZSI E-News

Monthly E-Newsletter from Zoological Survey of India



From the Director's Desk

Heartiest Greetings to our readers!

The Zoological Survey of India publishes the E-News to provide information on activities, events, scientific research and developments, and discoveries of the ZSI headquarters and Regional Centres every month for all the readers. I am extremely happy to bring you the report of June 2023.

On the occasion of World Environment Day, ZSI/HQs., Kolkata, and all the Regional Centres across the country made a noteworthy contribution to the awareness programme to educate people and to aware people about the importance of healthy environment through environmental rallies, invited talks, seminars, plantation of seedlings and cleanliness activities on 5th June 2023. ZSI also made remarkable contributions to the spreading of awareness about Mission LIFE across the country through onsite demonstrations, rallies, awareness campaigns, radio talks, or television talks to sensitize mass awareness. International Yoga Day is also an integral part of global concern in the present scenario, and ZSI took a distinguished role in spreading the importance of this day through yoga practice in various places, including the Kedarnath Dham Temple. ZSI always takes a significant role in cleanliness drives. Swachhta Special Campaign 2.0 was also carried out in various places, including the railway line of Solan: a UNESCO world heritage site. In this month, a total of 1447 species of faunal communities from protozoa to mammals were identified by the scientists of ZSI, whereas 28 DNA Barcodes were generated. Two faunal species were identified as a new distributional record to India, including one species of crab and one species of coralline isopod. The description of eight new species under the vertebrate and invertebrate faunal group during the month is worth mentioning. A press conference was organized to announce the inauguration of the 108th Foundation Day Celebration of the Zoological Survey of India on 28th June 2023.

I extend my congratulations to all the officers and staff of ZSI for their extraordinary contributions during the month.

With best wishes for the successful publication of this E-News edition.

Jai Hind

Dr. Dhriti Banerjee

Director
5th July 2023
Kolkata



HEADQUARTERS, KOLKATA

A total of 223 faunal species, including diptera, formicidae, chalcididae, platyhelminthes, nemathelminthes, mollusca, and aves, were identified during the month. One species of chalcididae, three species of platyhelminthes, and nine species of soil and marine nematodes were augmented in National Zoological Collections. Identification and advisory services were rendered to Kazi Nazrul University, Raja N.L. Khan Women's College, Ramakrishna Mission Vivekananda Centenary College, Uttar Banga Krishi Vishwavidyalaya, Government Degree College, Singur, Lady Brabourne College, West Bengal, Mandan Bharti Agricultural College, Bihar, M.D. University, Haryana, Agricultural College, Andhra Pradesh, Office of the Divisional Forest Officer, South 24 Parganas Division, Nadia-Murshidabad Division, Marine National Park, Jamnagar, National Bureau of Fish Genetic Resources, Uttar Pradesh, ATREE, Bangalore and Centre for Plant Protection Studies, Tamil Nadu. DNA isolation of 11 specimens was done during the month. Environment Day rally was organized on the occasion of World Environment Day on 5th June 2023; all the officers and staff participated.

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Cyanomitra jugularis (Linnaeus, 1766) Olive sunbird Courtesy: DRC, Jodhpur.

NORTH EASTERN REGIONAL CENTRE, SHILLONG, MEGHALAYA



Celebration of World Environment Day at Sunshine Adventist Secondary School, Sohryngkham, East Khasi Hills district

A total of 83 faunal species including, coleoptera, hemiptera (aquatic and terrestrial), arachnida, orthoptera, odonata, pisces, amphibia, reptilia, aves and mammalia were identified during this month. Identification and advisory services rendered to the Department of Environmental Science, Tezpur University, and to Professor D. Kar. 9th International Yoga Day was observed on 21st June 2023 in the office premises. As part of Mission LiFE, several mass awareness programmes were conducted in public places. As part of Swachhta Special Campaign 2.0, cleaning drives were organized in the office premises.



International Yoga Day celebration at the office

WESTERN REGIONAL CENTRE, PUNE, MAHARASHTRA

A total of 113 faunal species including coleoptera, arachnida, decapoda, hemiptera, hymenoptera, mollusca, odonata, pisces and amphibia, were identified during this month. One survey was conducted at Bhagwan Mahaveer Wildlife Sanctuary and Mollem National Park, Goa. Identification and advisory services rendered to the Range Office, Butibori, Nagpur district, Maharashtra, Sangamner, Forest Subdivision, Ahmednagar district, Maharashtra, Ratnagiri City Police Station, Maharashtra, Range Officer, Dapoli, Ratnagiri district, Maharashtra, Forest Section Officer, Parappa, Kasaragod district, Kerala, KJ Somaiya College of Arts, Commerce, and Science, Kopergaon, Ahmednagar, Department of Community Medicine and Armed Forces Medical College, Pune. An internal Hindi meeting was organized to discuss the points raised at the NARAKAS meeting. World Environment Day and International Yoga Day were celebrated.



Neosarmatium malabaricum
Henderson 1893

CENTRAL ZONE REGIONAL CENTRE, JABALPUR, MADHYA PRADESH

A total of 65 faunal species, including coleoptera, orthoptera, lepidoptera, mollusca, and amphibia, were identified during this month. Identification and advisory services rendered to JNKVV, Jabalpur. World Environment Day was celebrated with a plantation and mass awareness campaign for the theme "The Restoration of Ecosystem." International Yoga Day was also celebrated at the centre.



International Yoga day was celebrated at the office premises.



World Environment Day was celebrated with plantation and mass awareness campaign for theme "The Restoration of Ecosystem".

DESERT REGIONAL CENTRE, JODHPUR, RAJASTHAN

A total of 72 faunal species, including insecta, arachnida, mollusca and pisces, were identified during the month. World Environment Day and International Yoga Day were celebrated at the centre.



Celebration of World Environment Day and International Yoga Day

NORTHERN REGIONAL CENTRE, DEHRADUN, UTTARAKHAND

A total of 67 faunal species, including protozoa, phthiraptera, orthoptera, lepidoptera, hymenoptera, pisces, amphibia, and reptilia were identified in this month. One extensive survey was conducted at Kedarnath WLS. World Environment Day, Mission Life Programmes, and Yoga Day were celebrated. "Mission LiFE Programme-Save Water, Save Electricity, Cleanliness Drive" for awareness to visitors and security forces staff at Kedarnath Temple, Uttarakhand was organized..



Environment Awareness Rally on World Environment Day. Tree Plantation on World Environment Day



Yoga Day Celebration

SOUTHERN REGIONAL CENTRE, CHENNAI, TAMIL NADU

A total of 87 faunal species, including cladocera, cicadellidae, psocodea, rotifera, rhizopoda, ostracoda, odonata, amphibia, reptilian, and aves, were identified in this month. 4 DNA barcodes were generated. All the scientists and staff of the centre participated in the rally and beach cleaning programme as a part of the celebration of the World Environment Day programme. International Yoga Day was also celebrated at the centre.



Celebration of International Yoga Day



Rally on World Environment Day

HIGH ALTITUDE REGIONAL CENTRE, SOLAN, HIMACHAL PRADESH

A total of 45 faunal species, including insecta, pisces, and reptilia, were identified during the month. DNA barcoding of 7 specimens of lepidoptera, reptile, and pisces was done. Identification and advisory services rendered to the Department of Entomology, School of Agricultural Sciences and Rural Development (SASRD) of Nagaland University. World Environment Day was celebrated by planting trees of amla, tej patta, lemon, and guava at the office campus. The UNESCO World Heritage route (Kalka-Shimla railway track) and the railway station of Solan were cleaned, and the passengers inside the train were made aware of the environmental issues. Yoga Day was also celebrated at the centre.



Cleanliness drive at railway line of Solan: UNESCO world heritage site



Plantation Drive on World Environment Day



Celebration of International Yoga Day at HARC, Solan

ANDAMAN AND NICOBAR REGIONAL CENTRE, PORT BLAIR

A total of 181 faunal species, including arachnida, lepidoptera, pisces, aves, and mammalia, were identified during the month. Local field surveys were conducted to South Andaman Chidiyatappu, Mount Manipur National Park, Sippighat, Kalatang, Naysahar, Garacharma, Ograbraj, Chouldari, Burmanallah, Ferrargunj, Bimblitan, and Shoal Bay to study the terrestrial and marine faunal diversity.



Chalinula nematifera de Laubenfels 1954



Pomponia solitaria Distant 1888

World Environment Day was celebrated, and about 100 seedlings were distributed to local public & schools in collaboration with the Department of Environment & Forests. An exhibition on the faunal diversity of Andaman and Nicobar Islands and a seminar on Tropical Island Ecosystems: Structure, Function, and Services with a theme: Beat Plastic Pollution were organized. International Yoga Day was also celebrated at the centre.



Celebration of World Environment Day





Celebration of
International Day
of Yoga

SUNDERBAN REGIONAL CENTRE, CANNING, WEST BENGAL

A total of 89 faunal species, including cnidaria, platyhelminthes, crustacea, mollusca, echinodermata, pisces, and mammalia were identified in the month. World Bicycle Day, World Environment Day, and International Day of Yoga were celebrated at the centre. 18 Mission LIFE programmes were also organized.



Celebration of World Bicycle Day



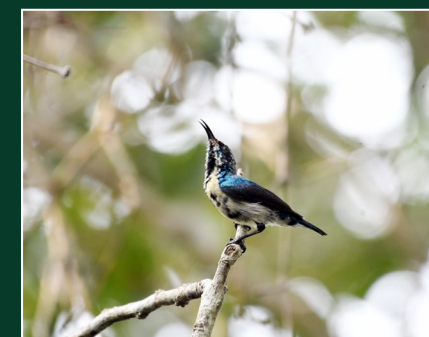
Celebration of International Day of Yoga

FRESHWATER BIOLOGY REGIONAL CENTRE, HYDERABAD, TELANGANA

A total of 71 faunal species including coleoptera, hemiptera, Mollusca, branchiopoda, malacostraca, ostracoda, pisces, and reptilia, were identified during the month. The centre observed World Environment Day, where Prof. K. Ranganath (Retd. Dean of SVVU) and Miss Richa Pathak (Captain, RGIA) enlightened students with various ways of reducing plastic pollution and contributing our bit to protect the environment. International Yoga Day was also celebrated at the centre.



Calotes versicolor (Daudin, 1802)



Cinnerys asiaticus Latham, 1790



Lonchura punctulata
(Linnaeus, 1758)

WESTERN GHAT REGIONAL CENTRE, KOZHIKODE, KERALA

A total of 112 faunal species, including arachnida, coleoptera, dermaptera, hymenoptera, hemiptera, mantodea, and protozoa were identified in the month. Two surveys were conducted at Mookambika Wildlife Sanctuary and Ponkunnu Hills. Identification and advisory services were rendered to the Department of Zoology, St. Thomas College, Thrissur, and to Mr. Subhasis Pal, Kolkata. All the staff and research scholars took part in the Calicut Beach cleaning initiative a part of the world environment day celebration. International Yoga Day was also celebrated in the centre.



Celebration of International Yoga Day



Celebration of World Environment Day



World Sea turtle day celebration at Gokharkuda

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

A total of 124 faunal species belonging to different faunal groups were identified in the month. One day local survey was conducted to the Bahuda Estuary. Six DNA barcodes belonging to 5 species were uploaded to the NCBI database. World Environment Day, International Day of Yoga, and World sea turtle day were celebrated. Mission LiFE for sustainable Environment awareness was conducted among the village school students at Bateshwar Beach, Rushikulya Estuary- an important breeding ground for Olive Ridley Sea turtles.



Celebration of International Yoga Day



ARUNACHAL PRADESH REGIONAL CENTRE, ITANAGAR

A total of 77 faunal species, including hemiptera, lepidoptera, orthoptera, pisces, and amphibia, were identified in the month. Local surveys were conducted in Jote, Sangdupota village and Mugli village. The centre organized and celebrated World Environment Day and International Yoga Day. One Amphibian species (*Kurixalus yangi* Yu, Hui, Rao and Yang, 2018) has been added to the APRC museum for the first time.



Honorable Governor of Arunachal Pradesh talk on Mission LiFE at Rajbhawan, Itanagar



Mission LiFE at Pobi Memorial School Saath Village Arunachal Pradesh



Local survey at Mugli Village, Papum Pare district Arunachal Pradesh



Celebration of International Yoga Day

MARINE AQUARIUM AND REGIONAL CENTRE, DIGHA, WEST BENGAL

A total of 38 faunal species, including polychaete, crab and pisces, were identified during the month. Three samples of gDNA and PCR products for fish have been amplified. One local survey was conducted in Digha and adjacent areas of West Bengal. Identification and advisory services rendered to Kannur University, Kerala, and National Centre for Coastal Research, Chennai. On the occasion of World Environment Day, 2023 a Day Seminar program was organized on the theme of "Beat the Plastic Pollution" for the students of the Department of Zoology and Geography, Bajkul Milani Mahavidyalaya, Bajkul at ZSI, MARC Digha.



Amphiprion clarkii (Bennett, 1830)



Mission LiFE awareness camp conducted at Egra SSB College on June 1, 2023

NEW DISCOVERIES AND NEW RECORDS



Ozius tuberculosus H.Milne
Edwards 1834

PUBLICATIONS

BOOKS

- » Dinesh, K.P., Shabnam, A., Kalawate, A.S., Talmale, S.S., Palot, M.J., Patil, S.R., Tripathy, B. and Banerjee, D., 2023. *Fauna of India: 108 Barcodes*. Published by the Director, Zool. Surv. India, Kolkata, 50 pp.
- » Parey, S.H., Ali, T. & Pandher, M.S., 2023. *Rhyacophilidae of India*. Published by Jenny Stanford Publishing Ltd. Singapore. 1-301.

PAPERS

- » Bahuguna, A., Nair, A. and Jabeen, F., 2023. Distribution, habitat of species of sauria of Ladakh with detail of morphometry of *Altiphylax stoliczkai* (Steindachner), frontier bow-fingered gecko, Baltistan gecko, or Karakorum gecko endemic to South Asia, recorded after 144 years from Ladakh (India) & their conservation strategies. *Biological Forum*, 15 (5):628-634.
- » Banerjee, S. and Sreeraj, C.R., 2023. First Record of *Ozius tuberculosus* H. Milne Edwards (Crustacea: Decapoda: Brachyura) from the East Coast of India. *Thalassas: An International Journal of Marine Sciences*, <https://doi.org/10.1007/s41208-023-00566-1>
- » Bhattacharjee, S., Mukheerjee, T., Chatterjee, D., Dar, S.A., Dutta, R., Singh, H., Sharief, A., Kumar, V., Joshi, B.D., Maheswaran, G., Thakur, M. and Sharma, L.K., 2023. Understanding Forest Fire Patterns and Risk Assessment to Local Biodiversity of Selected Districts of Mizoram Using GIS and Remote Sensing. *Proc. Zool. Soc.*, <https://doi.org/10.1007/s12595-023-00480-7>

- » Chattopadhyay, R., Sengupta, J., Naskar, A. and Banerjee, D. 2023. First Record of the Drain Fly *Clogmia albipunctatus* (Williston, 1893) (Diptera: Psychodidae) from Indian Sundarbans. *Uttar Pradesh Journal of Zoology*, 44(12) :22–26. <https://doi.org/10.56557/upjoz/2023/v44i123532>.
- » Deepa, J., Shankar, S., Kumar, D., Madasamy, K., Jadhav, S. and Sulthana, R., 2023. Molecular and Morphological identification of the genus *Dineutus* MacLeay, 1825 (Coleoptera, Gyrinidae) from Eastern Ghats, India. *Journal of Insect Biodiversity and Systematics*, 9(3): 499–512.
- » Ghosh, D., Chatterjee, P., Karjee, R. and Subramanian, K.A., 2023. Flower Visitor Assemblage and Foraging Profile of a Pollinator Attractant Non-crop Plant *Isodon coetsa* (Buch.-Ham. ex D.Don) Kudô from Eastern Himalayas, India. *Proc. Zool. Soc.*, <https://doi.org/10.1007/s12595-023-00498-x>
- » Jagdale, P., Magdum, S., Kalawate, A.S., Kajale, S. and Shouche, Y., 2023. First record and DNA barcode of a scarab beetle, *Adoretus kanarensis* Arrow, 1917 (Coleoptera: Scarabaeidae: Rutelinae), from Maharashtra, India. *Journal of Threatened Taxa*, 15(6): 23425–23430. <https://doi.org/10.11609/jott.8439.15.6.23425-23430>
- » Kalawate, A.S. and Palot, M.J., 2023. A first report of dung beetle *Garreta smaragdifer* (Walker, 1858) attending the faecal matter of Northern Plain Gray Langur *Semnopithecus entellus* (Dufresne, 1997) with range extension and a checklist of the genus *Garreta* Janssen,

1940. *Journal of Threatened Taxa*, 15(5): 23233–23239. <https://doi.org/10.11609/jot.8095.15.5.23233-2323>
- » Kamila, A.P. and Sureshan, P.M., 2022. An updated checklist of mantid fauna (Insecta: Mantodea) of India. *Halteres*, 13: 15-34.
 - » Kaur, M., Sidhu, A.K. and Singh, J., 2023. Taxonomic study of the genus *Gonepteryx* Leach, 1815 and genus *Dercas* Doubleday, 1847 (Lepidoptera: Pieridae) from India. *The Pharma Innovation Journal*, 12(6): 2397-2402.
 - » Mayi, Y., Jyrwa, J. D. and Patnaik, S. K., 2023. Monitoring of Land use/ land cover changes of Daying Ering Wildlife Sanctuary, Arunachal Pradesh, India, using Remote Sensing and Geographic Information System. *Journal of Applied and Natural Science*, 15(2): 713–719.
 - » Misal, P.K. and Kalawate, A.S., 2023. Preliminary Assessment of Arthropod Diversity of the Rock-Cut Caves of Satara district, Maharashtra, India. *Records of the Zoological Survey of India*, 123(iS2)/01-15: 457–462.
 - » Smita, M., Mohapatra, S.K., Seth, J.K. and Patro, S., 2023. New Record of an Established Parasitic Corallinidae Isopod from the East Coast of India and its Prevalence in the Host Fish *Epinephelus areolatus* (Forsskål, 1775). *National Academy of Science Letters*, 10.1007/s40009-023-01315-x
 - » Praveen, J., Maheswaran, G., Naskar, A., Alam, I., Majumder, A., Khot, R., Hegde, V., Sweet, P.R. and Trombone, T.J., 2023. Addition of White's Thrush *Zoothera aurea* to the South Asian avifauna. *Indian BIRDS*, 18(6): 181-814.
 - » Rana, A. and Mozhui, L., 2022. First record of *Oplatocera* (*Epiplatocera*) *oberthuri* (Gahan, 1906) (Coleoptera: Cerambycidae) from Meghalaya, north-eastern India. *Halteres*, 13: 48-50

- » Sulthana, R., Padmavathi, P. and Deepa, J., 2023. Freshwater Molluscs of Konaseema District, Andhra Pradesh, India. *Uttar Pradesh Journal of Zoology*, 44(1): 25-32, DOI: 10.56557/upjoz/2023/v44i113516
- » Shankar, S., Kumar, D., Deepa, J., Madasamy, K., Jadhav, S. and Kunte, K.B., 2023. Aquatic beetles (Insecta, Coleoptera) of Koundinya Wildlife Sanctuary, Andhra Pradesh, India. *Journal of Insect Biodiversity and Systematics*, 9(3): 449–467.
- » Tamal Mondal and Raghunathan, C., 2022. Decadal status of *Acanthaster planci* (Linnaeus, 1758) along the coral reef habitat of Andaman and Nicobar Islands. *Indian Journal of Geo Marine Sciences*, 51(09): 753-759. DOI: 10.56042/ijms.v51i09.2331

BOOK CHAPTERS

- » Bhatnagar, P.S., 2023. Eco-theology: A cosmopolitan view in Indian context. In: Kothari, N. (Ed.), *Indian Eco-theology "Theory and practice*. Published by Motilal Banarsidas Publications, New Delhi. ISBN 978-93-91759-84-1(HB)

MEETINGS ATTENDED

- » Dr. Dhriti Banerjee, Director, Zoological Survey of India with ZSI officials visited Central Academy of Forest Education (CAFÉ), Kurseong, Darjeeling on 2nd June, 2023 to assess the present condition and look into the viable utilization of its existing infrastructure and to explore the possibility of utilizing the building and infrastructure facilities of CAFÉ; World Environment Day Rally was organised on 5th June, 2023 ; attended the 12th Annual Day Celebration of Kolkata Nivedita Shakti at IICB, Kolkata on 12th June 2023 as Chief Guest and delivered a lecture on Mission LiFE (Lifestyle for Environment);

- attended the 2nd Group Monitoring Workshop of PAC Organismal and Evolutionary Biology - Animal Sciences organised by SERB, ICGEB New Delhi during 15 - 16 June 2023; addressed a valedictory Session of the two weeks in-house training in administration establishment & account conducted by the institute of secretariat & training development organised by ZSI, Kolkata on 23rd June, 2023; a press conference was organized on 28th June, 2023 to announce the inauguration of the 108th Foundation Day Celebration of the Zoological Survey of India on 1st of July 2023
- » Dr. C. Raghunathan, Scientist-F, ZSI/HQs., Kolkata, visited CAFÉ, Kurseong on 1st and 2nd June 2023 to explore the possibilities for the utilization of the facilities to ZSI; delivered a lecture on 'Beat Plastic Pollution' on the occasion of World Environment Day 2023 celebrated at Bhidanagar College, Kolkata as a Chief Guest; attended the meeting with Joint Secretary, Ministry of Shipping at New Delhi on 7th June 2023 on the project related to Holistic Development of Great Nicobar Island; attended meeting on State Governments and Nodal institutions to review the implementation of integrated management plan for biosphere reserves at MoEFCC, New Delhi on 8th June 2023; attended 39th meeting of Lakshadweep Coastal Zone Management Authority (LCZMA) meeting held on 16th June 2023 through VC mode; attended 51st Meeting of Expert Committee (ESZ) on 21st June 2023 at MoEFCC, New Delhi.
- » Dr. Gopinathan Maheswaran, Scientist-F, ZSI/HQs., Kolkata, attended a meeting at MoEFCC, New Delhi chaired by DG, Wildlife and Special Secretary on Biosphere Reserves along with directors of these reserves including the Dihang-Dibang Biosphere Reserve

- on 8th June, 2023; participated in the 1st International Delta Summit being organized by the Centre for River Affairs (CRA) of South Asian Institute for Advanced Research & Development (SAIARD) in collaboration with several national and international organizations as one of the key panelists on the topic 'Impact of Climate Change on deltaic ecosystem'.
- » Smt J. Lyngodh, Scientist – E & Officer in Charge, ZSI/NERC, Shillong, attended an online meeting of the standing Committee on Government e-Market place (SCoGeM) in respect of Ministry of Environment, Forest and Climate Change, on 12th June, 2023; attended the 7th meeting of the State Level PBR Quality Evaluation Monitoring Committee of Meghalaya Biodiversity Board on 21st June 2023.
- » Dr. Uttam Saikia, Scientist – D, ZSI/NERC, Shillong, participated in a radio interview programme as part of the National Science Magazine, All India Radio, New Delhi which was aired on the 25th June, 2023.
- » Dr. Gaurav Sharma, Scientist-E & Officer in Charge, ZSI/NRC, Dehradun, participated in the "21st Uttarakhand Biodiversity Board Meeting" held at conference hall UBB, Dehradun on 7th June, 2023. He also participated in the "F20 Climate Solutions Forum (CSF) 2023" through virtual mode organized in close partnership with Dasra and Shakti Sustainable Energy Foundation 8th June, 2023.
- » Dr. Narender Sharma, Scientist-E, ZSI/NRC, Dehradun, attended meeting of NARAKAS (Hindi Rajbhasha) on 28th June, 2023 through virtual mode.
- » Dr. Avtar Kaur Sidhu, Scientist-E & Officer in Charge, ZSI/HARC, Solan, attended 4th meeting of the Wildlife Board for Union Territory of Jammu & Kashmir under

- the chairmanship of Hon'ble Lieutenant Governor, Union Territory of Jammu & Kashmir (Chairperson of the Wildlife Board) on 6th June, 2023; attended NARAKAS meeting on 19th June, 2023; attended meeting on 12th June, 2023 under the Chairmanship of AS&FA, MoEFCC through video conference mode on Government e-Marketplace (SCoGeM) in respect of MoEFCC.
- » Dr. C. Sivaperuman, Scientist-E & Officer in Charge, ZSI/ANRC, Port Blair, attended the Executive Committee meeting of Andaman Science Association on 27th June, 2023; attended the 46th Foundation Day Celebration ICAR-Central Island Agricultural Research Institute, Port Blair on 23rd June 2023 as a Guest of Honour.
 - » Dr. V.D. Hegde, Scientist-E & Officer in Charge, ZSI/WGRC, Kozhikode, attended the 27th meeting of the local advisory committee of the Regional Science Centre and Planetarium, Calicut on 7th June, 2023.
 - » Dr. S.D. Gurumayum, Scientist-E & Officer in Charge, ZSI/APRC Itanagar, attended a meeting on 27th June, 2023 at the Conference Hall of PCCF under the Chairmanship of PCCF (WL && BD) and Chief Wildlife Warden in connection with implementation of Pilot Project on five year Integrated Management Plan of Debang -Dehang Biosphere, Arunachal Pradesh; interviewed by the Doordarshan regarding Mission LiFE and its achievement so far under Mission LiFE by ZSI on 1st June, 2023.
 - » Dr. S. Balakrishnan, Scientist – E & Officer in Charge, ZSI/MARC, Digha, participated and attended as Guest of Honour in Rastriya Siksha Samman organized by Navya foundation in joint collaboration with Centre for Research Studies & Development on 7th June, 2023 at

TRAININGS ORGANIZED

- Auditorium of Digha Science Centre & National Science Camp, National Council of Science Museums, Ministry of Culture, Govt. of India.
- » Dr. S.S. Talmale attended NARAKAS at NCL, Pune and Rajbhasha Official Language Training meeting at Department of Official Language office, Pune on 28th June, 2023.
 - » Dr. R. Babu, Scientist - E, ZSI/SRC, Chennai, attended the meeting of the Board of Studies in Zoology (PG) with regard to revision of syllabus for M.Sc. Zoology degree courses at University of Madars, Chennai on 27th June, 2023.
 - » Dr. A.S. Kalawate, Scientist-E, ZSI/WRC, Pune, attended NARAKAS at NCL, Pune and Rajbhasha Official Language Training meeting at Department of Official Language office, Pune on 28th June, 2023.
 - » Dr. Tamal Mondal, Scientist-D, ZSI, Kolkata attended a meeting with the Chief Engineer, CCU, MoEF&CC under the guidance of Director, ZSI and Dr. C. Raghunathan, Scientist-F during the visit to investigate the infrastructure facility of CAFÉ, Kurseong to utilize as Central Himalayan Regional Centre of ZSI on 2nd June 2023; attended a meeting in UGC to facilitate the UGC-Fellowship on 8th & 9th June 2023; attended a meeting with the Chief Engineer, & Superintendent Engineer, CCU, MoEF&CC under the guidance of Dr. C. Raghunathan, Scientist-F during the visit to investigate the infrastructure facility and present situation of ZSI/MARC, Digha on 13th June 2023.
 - » ZSI/MARC, Digha organized a training on “Fisheries Engineering and Technology” and “Fisheries Regulation and Management” for PG Diploma in Inland

- Fisheries and Aquaculture Management trainees from different state fisheries offices, ICAR-Central Institute of Fisheries Education, Kolkata Centre on 15th June, 2023.
- » A 21 days internship training programme was conducted by ZSI/SRC, Chennai from 29th May, 2023 to 26th June, 2023 where 51 students from different colleges namely Ethiraj college, Stella Marys college, Queen Marys college, Bharathiar University and Guru Nanak college, Chennai participated.

TRAININGS ATTENDED

- » Officers and staff of ZSI/CZRC, Jabalpur attended 20 days online Hindi Pragya Training (Virtual) by Central Hindi Training Institute, Rajyabhasha department, Ministry of Home, Govt of India.
- » Dr. Anil Kumar, Scientist-E, Sh. Dinesh Kumar, LDC, Sh. Anup Singh & Ms. Nitika Saini, LDC of ZSI/NRC, Dehradun, Dr. Avtar Kaur Sidhu, Scientist-E & Officer in Charge, Dr. Kamal Saini, Asstt Zoologist & DDO, UDC, LDC of ZSI/HARC, Solan, Staff of ZSI/SbRC, Mrs. Rehanuma Sulthana, Asst. Zoologist and Mr. Indranil Singha & Mr. N. Naresh Sr. Zoological Asst. and Shankar LDC of ZSI/FBRC, Hyderabad, Officials of ZSI/DRC, Jodhpur, Dr. S. Balakrishnan, Scientist – E & Officer in Charge, MARC, Digha, Dr. A.S. Kalawate, Scientist-E, ZSI/WRC, Pune attended the in-house Training in Administration, Establishment and Accounts in online mode from 12th June to 23rd June, 2023 organized by ZSI/HQs, Kolkata.
- » Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge of ZSI/ANRC, Port Blair, attended the Marine IBA and seabird migration workshop at Bombay Natural History Society, Mumbai during 6th to 9th June, 2023.

- » Shri. Sreejith S. Kumar, Assistant Zoologist, ZSI/WGRC, Kozhikode has successfully completed Induction Translation Training at Central Translation Bureau, Bengaluru from 8th May to 16th June, 2023.
- » Dr. S.D. Gurumayum, Scientist – E & Officer in Charge, ZSI/APRC, Itanagar, attended the meeting of Standing Committee on Government e-Marketplace (SCoGeM) in respect of MoEF&CC on 12th June, 2023.
- » Dr. S. Balakrishnan, Scientist – E & Officer in Charge, ZSI/MARC, Digha, participated in the training of Panchayat General Election, West Bengal, 2023 appointed as Presiding Officer training at P.K. College, Contai on 18th June, 2023.
- » Dr. A.S. Kalawate, Scientist-E, ZSI/WRC, Pune, attended a workshop organised by ICFRE, Dehradun, FRI, Dehradun, IWST, Bengaluru and Indian Academy of Wood Sciences, Bengaluru on hybrid mode in remembrance of late Dr. Sonti Kamesam (1898-1953), a legendary in Wood Science and Technology on 27th June, 2023 held at Institute of Wood Sciences and Technology, Bengaluru.
- » Dr. Md. Jafer Palot, Scientist-B, ZSI/ WRC, Pune, attended the State Level Workshop on Mangrove Conservation at Ramada Hotel, Alappuzha, Kerala on 23rd and 24th May, 2023 organized by Kerala Forests & Wildlife Department, Govt. of Kerala.

LECTURES DELIVERED

- » Dr. B. Sinha, Scientist - E and Dr. U. Saikia, Scientist – D, ZSI/NERC, Shillong, delivered lectures on “Solution to Plastic Pollution” on World Environment Day at Sunshine Adventist Secondary School, Sohryngkham, East Khasi Hills, Meghalaya.

- » Dr. Anil Kumar, Scientist-E, ZSI/NRC, Dehradun, delivered a lecture titled “Avian Diversity, Birding Hotspots and Conservation Issues in India” to a group of students from a College from Dehradun on 8th June, 2023.
- » Dr. Avtar Kaur Sidhu, Scientist-E & Officer in Charge, ZSI/HARC, Solan, delivered lecture on “Sustainable practices and Mission LiFE” to college students of Khalsa College, Gharshankar, Punjab on 6th June, 2023.
- » Dr. C. Sivaperuman, Scientist-E & Officer in Charge, ZSI/ANRC, Port Blair, delivered a talk on “Antarctica: A Journey through everlasting Ice in virtual mode of Meditation (Everyone - Every County; Every Faith - Every Day)” in London on 3rd June 2023.
- » Dr. SD Gurumayum, Scientist - E and Smt. Ilona J Kharkongor, Scientist - E of ZSI/APRC, Itanagar, delivered lectures on “Say NO to Single-use Plastics” during the Mission LiFE Campaign organized by the GB Pant National Institute of Himalayan Environment, Itanagar, at Guardian Angel School, Itanagar, on 31st May, 2023; delivered a talk during the World Environment Day programme held at Vivekananda Kendriya School, Chimpu on 5th June, 2023. Dr. SD Gurumayum, Scientist - E delivered a speech on the Mission LiFE on 1st June, 2023 at Rajbhavan where the Governor of Arunachal Pradesh administered the Mission LiFE Pledge.
- » Dr. P. Girish Kumar, Scientist-D, ZSI/WGRC, Kozhikode, delivered a lecture to PG students of Alva’s College, Vidyagiri, Moodubidre, Karnataka on 3rd June, 2023.
- » Dr. Sreeraj C.R., Scientist-D, ZSI/WGRC, Kozhikode, delivered a lecture at Al-Hind Charitable Trust, Calicut on 5th June, 2023 on the occasion of celebration of the World Environment Day. He also

- delivered a lecture at the Regional Science Centre and Planetarium, Calicut on 8th June, 2023 on the topic “The Ocean of Life” as part of the World Ocean Day Celebrations.
- » Shri. Sreejith S. Kumar, Assistant Zoologist, ZSI/WGRC, Kozhikode, delivered a lecture on “An Introduction to Entomology” to B.Sc. Zoology students of NSS College, Ottapalam on 26th June, 2023.
 - » Dr. P.C. Tudu, Scientist – D, ZSI/MARC, Digha, delivered lecture at Department of Aquaculture & Management, Khejuri College, Bartala during the Five-day Add-on program on “Aquaculture Engineering” held on 14th June, 2023.
 - » Dr. Aditya Kapil Valiveti, Scientist – C (Chemist), ZSI/MARC, Digha, delivered lecture on “Mission LiFE initiatives” for the Zoology department students of Egra SSB College on 1st June, 2023; delivered lecture with presentation entitled on “Plastic Pollution and its Impact on Environment” for the students of “Bajkul Milani Mahavidyalaya” at the conference hall of MARC, ZSI, Digha on World Environment Day; delivered lecture on “Role of Water Quality in Aquaculture” for the students of Department of Aquaculture & Management, Khejuri College, Bartala during the Five-day Add-on program on “Aquaculture Engineering” held on 14th June, 2023.
 - » Dr. K.P. Dinesh, Scientist-E, ZSI/WRC, Pune, delivered online lecture for the students of Ph.D Course work for the subject Zoology at the School of Life Sciences, Punyashlok Ahilyadevi Holkar Solapur University, Solapur on 3rd June, 2023.
 - » Dr. Md. Jafer Palot, Scientist-B, ZSI/WRC, Pune, delivered a lecture on the “Faunal diversity of Mangrove ecosystems of Kerala” at the State Level Workshop on Mangrove Conservation at Ramada

- Hotel, Alappuzha, Kerala on 23rd and 24th May, 2023 organized by Kerala Forests & Wildlife Department, Govt. of Kerala.
- » Dr. K. A. Subramanian, Scientist – E & Officer in Charge, ZSI/SRC, Chennai, delivered lecture on “Biodiversity-Space and Time” during the internship training programme of M.Sc students conducted at SRC, Chennai from 29th May, 2023.
 - » Dr. JayasreeThilak, Scientist - E, ZSI/SRC, Chennai, delivered lecture on the methods of collection, preservation, taxonomic identification and importance of fishes on 9th June, 2023 and on Zooplankton on 13th June, 2023 during the internship training programme of M. Sc. students conducted at SRC, Chennai from 29th May to 16th June, 2023.
 - » Dr. R. Babu, Scientist - E, ZSI/SRC, Chennai, delivered lectures on “Introduction to taxonomy”, “Diversity of insects” and “Collection and Preservation of Insects” to the participants of internship programme for M.Sc. Zoology students of Ethiraj College, Stella Marys College, Queen Marys College, Guru

- Nanak College, Madras Christian College, Chennai and Department of Zoology, Bharathiyar University, Coimbatore on 31st May, 2nd June and 21st June, 2023.
- » Dr. Ranjana, Scientist - E, ZSI/SRC, Chennai, delivered two lectures on DNA Barcoding for summer internship students 1st June 2023 to 15th June 2023.
 - » Dr. Varadaraju, Scientist - D, ZSI/SRC, Chennai delivered two lectures to internship students on Taxonomy and classification of Reptilia and on Diversity and Distribution of Amphibia in India.
 - » Shri. R. Sakthivel, Assistant Zoologist, ZSI/SRC, Chennai delivered lectures on Bird Migration, Introduction and Collection & Preservation of Aves, and Mammals on 7th June, 2023.
 - » Dr. Gopinathan Maheswaran, Scientist – F, ZSI/HQs, Kolkata, delivered a lecture on migratory birds of Indian Sunderbans and Bhramaputra River basin in the 1st International Delta Summit organized by Centre for River Affairs, Kolkata on 16th June, 2023.

PHOTO GALLERY



A press conference was organized on 28th June, 2023 to announce the inauguration of the 108th Foundation Day Celebration of the Zoological Survey of India on 1st of July 2023



Dr. Dhriti Banerjee, Director, ZSI attended the 12th Annual Day Celebration of Kolkata Nivedita Shakti at IICB, Kolkata on 12th June 2023 as Chief Guest



World Environment Day Rally on 5th June, 2023



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Addressed the two weeks in-house training in administration establishment & account conducted by the institute of secretariat & training development from 12th June to 23rd June, 2023 organised by ZSI, Kolkata.