



ZSI enews



From the Director's Desk



I am very glad to record that 107th Foundation Day of ZSI was celebrated on 1st July 2022. On this occasion, Hon'ble Minister, MoEFCC, Mr. Bhupender Yadav and Hon'ble Minister of State, MoEFCC Mr. Ashwini Kumar Choubey released the book entitled, *Animal Discoveries of India: New species and New records* which contain 540 species from different ecosystems of the country. It makes the India's faunal diversity to the tune of 1,03,258 species which is equivalent to 6.4 per cent of global fauna. Besides, the Hon'ble Ministers also released the *Faunal Diversity of Biogeographic Zones of India: Deccan Peninsula, Birds of India and Faunal Diversity of Coringa Wildlife Sanctuary*. A web portal of Lepidoptera has also been released by the Hon'ble Ministers during the occasion. The identification of faunal specimens was 13559 comprising 1478 species during the month. The month witnessed with the discovery of 17 species and new addition of 11 species to Indian fauna. Altogether, 372 DNA barcodes have been generated while augmenting 102 species to the repository, rendering 39 advisory services to various departments and making 3 books, 34 research papers and 42 book chapters.

I congratulate all the Officers and Staff of ZSI by making the month with immense contribution like preceding months

Jai Hind

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Foundation day of ZSI
held on 1st July 2022 at
ZSI, Kolkata

HEADQUARTERS, KOLKATA

ZSI celebrated 107th Foundation Day on 1st July 2022 with the presence of Hon'ble Minister, MoEFCC, Mr. Bhupender Yadav and Hon'ble Minister of State, MoEFCC Mr. Ashwini Kumar Choubey. The Hon'ble Minister chaired the interactive session with the Scientists of ZSI and BSI on the occasion and visited various scientific sections of the ZSI. The DST sponsored high end workshops on Scyphozoa and Wildlife Forensics have been organized with the participation of students from different part of the country. Surveys conducted to dry deciduous forests of West Bengal and Gulf of Mannar during

the month. Prepared the Conservation and Management Plan for Coral Reefs of Great Nicobar Island and submitted to AECOM and MoEFCC. As required by MoEFCC, submitted the ZSI comments on the rationalization of boundary for Salt Water Crocodile Sanctuary, Andaman and Nicobar Islands and to PCCF, A & N Islands on 6th July 2022. Prepared the Conservation and Management Plan for Coral Reefs of Great Nicobar Island and submitted to AECOM and MoEFCC. Reply for provisionally admitted question for the Rajya Sabha Starred/Un starred Diary No. U51 on Extinction of species due to human

intervention submitted to MoEFCC on 11th July 2022 and Lok Sabha Starred question diary No. 5831 on the initiatives/plans for conservation of Biodiversity sent to MoEFCC on 19th July 2022. In addition, reply for the Rajya Sabha provisionally starred /unstarred question Dy No. S3278, Impact of climate change on coastal regions submitted to the administrative ministry on 29th July 2022. Comments on the proposal of M/s Tewari for import of Live Pangasius from Bangladesh sent to Ministry of Fisheries, Animal Husbandry and Dairying on 11th July 2022. The Data availability for India in IUCN Spatial Database in respect of fauna

and updated faunal diversity along with endemic species have been provided to Ministry of Statistics and Programme Implementation for the upcoming issue of the publication EnviStats India 2022; Vol. II Environment Accounts on 15th July 2022. Achievements and initiatives of ZSI for the NSoER-Chapter celebrating 75th Year of India's Independence with respect to Azadi ka Amrit Mahotsav, submitted to MoEFCC on 21st July 2022. List of invasive alien fauna has been submitted to IFGTB, Coimbatore on 29th July 2022 for the preparation of National Policy Action Plan for invasive alien species in India. Furthermore, 6226 specimens

comprising 598 species have been identified. Among them 12 species are newly described while 9 species were new record to the country. Altogether 84 species have been augmented to National Zoological Collections, 172 DNA barcodes generated and 29 identification services have been rendered which includes confiscated material too.

Dr. Kailash Chandra,
Former Director, ZSI
receiving Janaki Ammal
Award from Hon'ble
Ministers of MoEFCC



NORTH EASTERN REGIONAL CENTRE, SHILLONG, MEGHALAYA

Contributed towards the description of a new species of Bat, *Miniopterus phillipsi* Kasuminda *et al.*, 2022 from India and Sri Lanka. 38 species comprising Mammalia –1 sp., Amphibia –7 spp., Pisces –6 spp., Decapoda –1 sp., Dermaptera –4 spp., and Hemiptera- 19 spp. were identified. Provided assistances and distribution information of Indian flying fox in Meghalaya to National Institute of Virology, Pune; provided literature assistance to Gauhati University.



Mackenzie's rat *Berylmys mackenziei*
(Thomas, 1916)

WESTERN REGIONAL CENTRE, PUNE, MAHARASHTRA

One new genus and three new species of freshwater crabs have been described. A total of 60 species belonging to four different faunal groups have been identified during this month. Identification and advisory services provided to the Assistant Police Inspector, Ispurli Police station, Kolhapur district, Maharashtra for confiscated flat skin; Range Forest Officer, Range Forest Office (T), Seminary Hills, Nagpur, Maharashtra for confiscated antler, reptilian and bird specimens; Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Tamil



Rhacophorus malabaricus Jerdon 1870

Nadu for marine mollusc specimens. Organized the DST-SERB sponsored national level workshop on "Capacity Building for Young Lepidopterologist: "Insight into the Biology and Conservation of Lepidoptera with emphasis on moths" from 18th to 24th July 2022.

Director, ZSI inaugurating the workshop on "Capacity Building for Young Lepidopterologists



CENTRAL ZONE REGIONAL CENTRE, JABALPUR, MADHYA PRADESH



Euphlyctis cyanophlyctis
(Schneider, 1799), Indian Skipper frog

Catchment area of Ratapani Dam

Local Surveys conducted to various localities of Jabalpur to do acoustic studies of Orthoptera: Crickets and for collection of Coleoptera: Coccinellidae from 07/07/2022 to 14/07/2022. A total of 118 species containing 17 species of Orthoptera, 67 species of Lepidoptera, 05 species of Odonata, 02 species of Amphibia, 11 species of Hemiptera, 12 species of Mollusca and 04 species of Scorpionida were identified during the month. Identification and advisory services provided to Department of Entomology, JNKVV, Jabalpur on Lepidoptera and Hemiptera.



DESERT REGIONAL CENTRE, JODHPUR, RAJASTHAN

Survey conducted from 22nd June 2022 to 31st July 2022 at Uttarakhand and Himachal Pradesh for documentation, conservation, and utilization of indigenous mountain pollinators– with special reference to Himalayan bumblebees. 66 species (16 species of Arachnids, 7 species of Gastropods, 40 species of Insects & 3 species of Fishes) have been identified by scientists of the Centre during the month.



Papipilo demoleus
(Linnaeus, 1758)

Polypedates maculatus
(Gray, 1830)



NORTHERN REGIONAL CENTRE, DEHRADUN, UTTARAKHAND

Plantation drive by ZSI, NRC, Dehradun in Forest Land in Dehradun Valley

Participated in “Mega Exhibition- Rise in Uttarakhand” and installed Faunal exhibits representing ZSI, MoEFCC from 07th to 09th July, 2022, ZSI stall was declared the ‘Best Stall’ and trophy received from Hon’ble Chief Minister of the Uttarakhand Sh. Pushkar Singh and Minister of Tourism, Government of Uttarakhand, Shri Satpal Maharaj. Showcased ZSI



Visit of Hon’ble Minister of Tourism Sh. Satpal Maharaj in ZSI Stall at Mega Exhibition Rise in Uttarakhand, Dehradun on 09th July, 2022



in “Mega Exhibition-Aspiring Haryana” organized by Hon’ble member of Lok Sabha Sh. Brijendra Singh at Hisar, Haryana from 28th to 30th July, 2022 and received the ‘Best Stall’ trophy. Participated in the plantation drive in Dehradun Valley organized by Building Dreams Foundation supported by Zoological Survey of India and Botanical Survey of India, Dehradun on 12th and 14th July, 2022 and planted 849 saplings in forest land of Uttarakhand Government in Selaqui area of District Dehradun. Scientists of the Centre identified 67 species belonging to eight faunal groups. Four gene sequences (Cytochrome b and 12SrRNA) uploaded in Barcode of Life- NCBI belonging to one species, *Lissemys punctata* (Lacepede).

SOUTHERN REGIONAL CENTRE, CHENNAI, TAMIL NADU

The scientists of the Centre identified 134 species of Zooplankton, Ephemeroptera, Hemiptera, Odonata, Lepidoptera, Mollusca, Pisces, and Reptiles. Thirty students from Loyola College, New College, Queen Mary’s College and Guru Nanak College, Chennai, and Bharathiar University, Coimbatore, completed an internship programme on animal taxonomy. Thirty- six interns

from the National Biodiversity Authority, Chennai, visited this Centre as part of an institutional visit and briefed on the activities of the Centre. Identification and advisory services rendered to Sikkim University on 20 photographs pertaining to 13 species of Odonata.



Appias lyncida Cramer
1777



Rohana parisatis
(Westwood, 1851)

GANGETIC PLAINS REGIONAL CENTRE, PATNA, BIHAR

Purple
Heron *Ardea*
purpurea
Linnaeus 1766



Dr. Gopal Sharma interview in DD, Patna

Twenty four species from different faunal groups were identified during the month. Identification service provided to JP University Chhapra on birds. Dr. Gopal Sharma Scientist E & Officer-in-charge participated in live show at DD Bihar on the topic "Career opportunity in ZSI" on 15.07.2022.

HIGH ALTITUDE REGIONAL CENTRE, SOLAN, HIMACHAL PRADESH

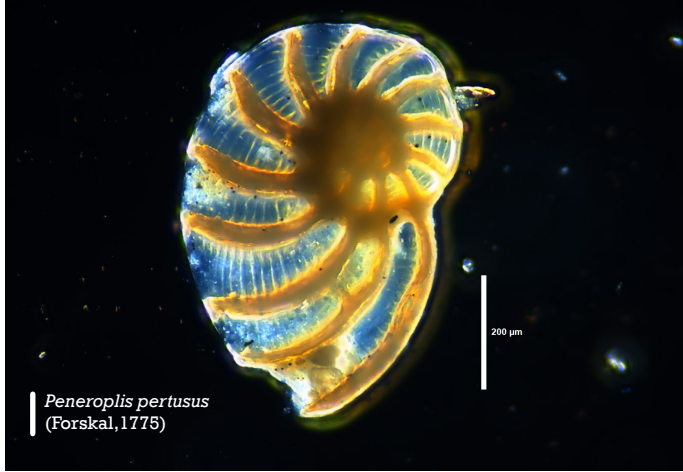


Albulina omphisa, Dusky green underwing

Women scientists under the leadership of Director on an expedition to Lahaul & Spiti, Himachal Pradesh

Organized the First Women Scientist Faunal Expedition to Lahaul Valley, District Lahaul & Spiti (HP): the Remote High Altitude Himalayan Ecosystem from 30-07-2022 to 10-08-2022, where the women team shall explore the endangered and endemic faunal diversity from an altitude of 2800 m to 5800 m. To boost the morale of women scientists covering this tough tract, Dr. Dhriti Banerjee, Director, Zoological Survey of India flagged off the Survey party on 31.07.2022 near Koksar, on Lahaul side of Atal tunnel. 49 species identified during the month, containing one species of Pisces and 48 species of Lepidoptera. Two manuscripts were reviewed by the scientists of the Centre for different journals.

MARINE BIOLOGY REGIONAL CENTRE, CHENNAI, TAMIL NADU



Local surveys conducted to Pulicate Lake and Kashimedu fish landing centre, Tamil Nadu. A total of 107 species were identified which include Marine Sponges 09 species, Scleractinian Corals 05 species, Bryozoa 01 species, Nematode 11 species, Foraminifera 04 species, Mollusca 37 species, Crab 07 species, Echinodermata 2 species, and Fishes 31 species. This Centre provided identification services for the confiscated polychaete worms to RFO, Tindivanam, Tamil Nadu.



ANDAMAN AND NICOBAR REGIONAL CENTRE, PORT BLAIR

One long term survey was conducted to North Andaman group of Islands from 12th to 26th July 2022 and local surveys conducted to South Andaman. A total of 313 species were identified comprised of Coral - 83 species; Helioporacea - 1 species; Zoantharia - 2 species; Actiniaria - 3 species; Hydrozoa - 3 species; Porifera - 5 species; Fishes - 30 species; Mollusca - 21 species were identified from the marine environment; Amphibia - 10 species; Arachnida - 25 species; Aves - 61 species; Reptiles - 12 species; Lepidoptera - 53 species; Odonata - 4 species were identified from the terrestrial environment.

Andaman Stork-billed Kingfisher *Pelargopsis capensis osmastoni* Baker 1934



SUNDERBAN REGIONAL CENTRE, CANNING, WEST BENGAL



*Plectorhinchus
flavomaculatus*
(Cuvier, 1830)



Stenella longirostris
(Gray, 1828)

Conducted four days local survey on 7th, 9th, 16th, 17th July 2022. Total 136 spp. were identified which contain 20 spp. of mollusca, 101 spp. of fish, crustaceans 9 spp. and 6 spp. of Cnidarian. One manuscript published in NAAS journal and four book chapters published in the book entitled “Faunal Diversity of Coringa Wildlife Sanctuary, Andhra Pradesh”.

FRESHWATER BIOLOGY REGIONAL CENTRE, HYDERABAD, TELANGANA

Green bee-eater
(*Merops orientalis*)



Anhinga melanogaster
Pennant, 1769 (Oriental
Darter)

One field survey has been conducted to smart cities of Andhra Pradesh from 13th to 28th July 2022. The scientists, staff and research scholars of the Centre identified 8 species of Aquatic Coleoptera, 28 species of Aquatic Hemiptera, 4 species of Ostracoda, 2 species of Branchiopoda, 9 species of Mollusca, 4 species of Odonata, 3 species of Lepidoptera, 1 species of Scorpiones, 1 species of Millipedes, 39 species of fishes and 9 species of Reptiles from Amrabad and Kawal Tiger Reserve, Telangana, Rollapadu Wildlife Sanctuary, Papikonda National Park, East Godavari, Guntur, Kurnool districts, Andhra Pradesh; Smart cities Amravati and Visakhapatnam. Fourteen DNA sequences have been submitted to NCBI.

WESTERN GHAT REGIONAL CENTRE, KOZHIKODE, KERALA

A total of 121 species belonging to 10 different faunal groups have been identified during this month. Scientists of the Centre reviewed three research manuscripts. Identification service provided to Hymenoptera section, Headquarters, Kolkata. Data on wetlands of Kozhikode District was provided to Kerala State Wetland Authority upon request. As per the Committee's recommendations, the list of mammals placed in Schedule I & II of the Indian Wildlife (Protection) Act 1972 for Amendment Bill 2021 has been revised and submitted to MoEFCC through proper channel.

Mookambika WLS,
Karnataka



*Pseudophilatus
amboli*, Biju &
Bossuyt 2009

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

One new species *Ariosoma bengalense* Ray, Acharya, Khatua, Roy, Mohapatra, Mishra, 2022 is published from 2 specimens collected from Petuaghat, West Bengal. One day local survey to Bahuda estuary and one day local survey to Lakhari Valley W/L Sanctuary was carried. A total of 114 species were identified which includes insects, crustaceans, fishes and reptiles. One DNA barcode uploaded. Reviewed 5 manuscripts for different journals.

ARUNACHAL PRADESH REGIONAL CENTRE, ITANAGAR

Itanagar Wildlife
Sanctuary



A total of 63 species. (Diplopoda 2 spp., Archnida 1 sp., Lepidoptera 43 spp., Orthoptera 02 spp., Blattoidea 02 spp., Pisces 07 spp., Amphibia 05 spp. & Reptile 01 sp.) were identified and registered by the Scientists of the Centre.

Chondracris rosea
De Geer 1773

MARINE AQUARIUM AND REGIONAL CENTRE, DIGHA, WEST BENGAL

Two days local survey conducted to Shankarpur & Digha Mohana, West Bengal. Total 82 species comprising Fishes (28 spp.), Mollusca (54 spp.) and Polychaete (1 sp.) have been identified. Two manuscripts were reviewed for different journals.



Siganus javus
(Linnaeus, 1766)



Aesopia cornuta
Kaup, 1858

NEW DISCOVERIES AND NEW RECORDS

NEW SPECIES



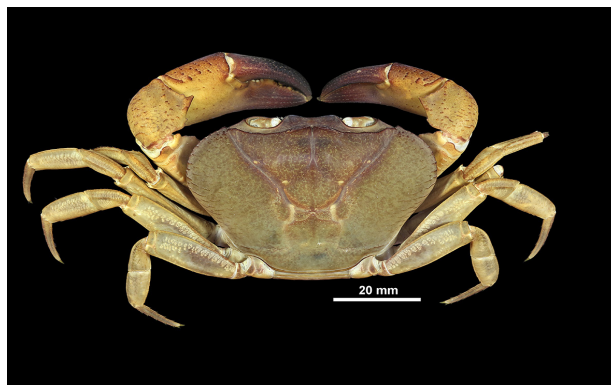
Cyrtarachne
wayanadensis
Jwala, Sen &
Sureshan, 2022



Pasilobus
sahyadriensis
Jwala, Sen &
Sureshan, 2022



Ariosoma bengalense Ray et, al.2022



Barytelphusa inflata Pati & Yeo, 2022



Barusa obesa Pati & Yeo, 2022



Aesopia cornuta Kaup, 1858

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for Elimination (MVSE) Course” (3rd July to 15th July 2022) at Dept. of Zoology, Mohanlal Sukhadia Uni., Rajasthan 4.7.2022; attended virtual meeting under the chairmanship of Additional Secretary (TK) for review of the process of filling up the posts of Scientist of the ZSI and BSI on 5.7.2022; administrative, NIRANTAR, NBA Meetings; inaugurated Sustainability Education Programme (2022-23) EARTHIAN PARYAVARAN MITRA Teachers’ Orientation-cum-Workshop, jointly organized by Centre for Environment Education (CEE) catalyzed by Wipro Foundation, Bangalore and Paribesh Unnayan Parishad at Sahapur Harendranath Vidyapith, Kolkata on 16.7.2022, and discussed Role of ZSI in Biodiversity & Sustainability; under the Accelerate Vigyan (AV) scheme of DST-SERB, inaugurated Lepidoptera Karyashala (18th-24th July, 2022) as Chief Guest on 18.7.2022 at WRC, Pune for Conservation of Lepidoptera with emphasis on moths,; as a coordinator, organized a DST-SERB Karyashala (from 18th to 24th July, 2022) on “Taxonomy, Ecology and Genetic Analysis of Indian Scyphozoans (Jellyfishes)” at ZSI HQ, Kolkata; organized ZSI-SERB KARYASHALA (from 25.7.2022 to 31.7.2022) on “Demonstrating Standard Operating Procedures (SOPs) to combat illegal wildlife trade & strengthening wildlife forensic capabilities in India” at ZSI, HQ, Kolkata; undertaken field survey from 20.7.2022 to 22.7.2022 under ZSI Annual Programme of Research 2022-23 Faunal composition of Tropical Dry Deciduous Forest, Phase 1; attended virtual meeting with Natural History Museum (NHM) on 25.7.2022; chaired the monthly consultative meeting of ZSI HQ & Regional Centers for reviewing scientific activities and progress of ZSI on 28.7.2022; inaugurated a photography exhibition organized on the occasion of Global Tiger Day, Environ in collaboration with ITC Hotels at ITC Sonar on 29.7.2022.
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POPULAR ARTICLES

1. Palot, M.J. 2022. *Uragangal Vamshanasha Bheeshaniyil* [About endangered and threatened reptiles of Kerala]. *Aranyam* (An official magazine of Kerala State Forests & Wildlife Department), 42: 83–87. [in Malayalam]
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2. Dr. C. Raghunathan, Scientist-F served as coordinator for 107th Foundation Day Celebration held on 1st July 2022; attended Review meeting to address the observations of 3rd Environmental Appraisal Committee regarding Holistic Development of Great Nicobar Island chaired by PCCF, A&N Islands held on 4th July 2022 through video-conferencing, attended meeting with Additional Director General of Forest (WL) on the rationalization of boundary for Salt Water Crocodile Sanctuary, Andaman and Nicobar Islands held on 6th July 2022, attended the meeting on draft national policy and action plan on invasive alien species held on 6th July 2022 at 10.30 AM organized by IFGTB. Coimbatore, attended the meeting of NIRANTAR chaired by Hon’ble Minister, MoEFCC at New Delhi on 14th July 2022, attended meeting for preparation of Conservation and Management plan for Coral Reefs and also safe wildlife corridors

MEETINGS ATTENDED

1. Dr. Dhriti Banerjee, Scientist- G & the Director, ZSI organized 107th ZSI Foundation Day on 1.7.2022, the Hon’ble Union Ministers, Shri. Bhupendra Yadav and Shri. Ashwini Kumar Choubey, MoEFCC, GoI visited ZSI, Kolkata to grace the occasion; she explained ZSI work and exhibitions to ZSI HQ Sections; exhibits of ZSI, HQ were briefed to the Ministers of the MoEFCC; chaired inaugural function as Chief Guest of “The APMEN- Mohanlal Sukhadia Uni., 3rd International Malaria Vector Surveillance

for Holistic Development of Great Nicobar project held on 14th July 2022 at AECOM, New Delhi, attended the meeting with NBA, Chennai for Pilot Capacity Building Programme for Biodiversity Management Committees (BMCs) for Effective Implementation of Biological Diversity Act 2002 on 15th July 2022 through virtual mode, attended the Workshop on Scyphozoan jellyfishes organized by ZSI on 18th July 2022 and delivered a talk on the Scyphozoans – an overview during the inaugural session. delivered a lecture on Coastal and Marine Biodiversity in India with special reference to Cnidaria in the National Workshop on Scyphozoan Jellyfishes organized by ZSI on 18th July 2022, attended the meeting for Capital Works budget Chaired by Additional Secretary and Financial Advisor, MoEFCC on 25th July 2022 and attended the meeting for Great Nicobar Holistic Development chaired by Director General of Forest, MoEFCC on 26th July 2022

3. Dr. P. S. Bhatnagar, Scientist-E, attended Chhattisgarh State Biodiversity Board meeting on 29th July, 2022 at Raipur, Chhattisgarh.
4. Dr. C. Sivaperuman, Scientist-E attended meeting with PCCF (Wildlife), Department of Environment and Forests, A & N Islands, in connection with the proposed Crocodile census in A & N Islands on 8th and 27th July; attended EAC meeting at MoEF&CC in connection with the proposed Sea Plane service in Swaraj Dweep on 22nd July 2022 (online).
5. Dr. Deepa Jaiswal attended Andhra Pradesh State Biodiversity Board meeting on 27th July 2022 by virtual mode
6. Dr. Avtar Kaur Sidhu, Scientist-E acted as External Supervisor for the Degree of Master of Science in Biodiversity & Conservation, in University school of Environment Management, Guru Gobind Singh Indraprastha University, New Delhi
7. Dr. Sheela, S. Scientist-E chaired the PhD Final Open Defense Seminar through video conferencing for Dept. of Zoology, Kannur University, Kerala on 11.07.2022.
8. Smt J. Lyngdoh, Sci- E attended the Governing body meeting of the Meghalaya Zoo implementation project on 18th July, 2022 at the O/o the PCCF, Shillong.
9. Dr.S.S.Jadhav. Scientist-D & Dr. Karuthapandi, M, Scientist-C attended Telangana State Wildlife Board meeting on 27th July 2022 by virtual mode.
10. Dr. Santosh Kumar, Sci.E, attended the audit meeting 'Feasibility of ZSI activity' at the MoEFCC, Delhi from 13th to 23rd July 2022.

11. Dr. Gopal Sharma Scientist E attended a national seminar in T.M.U. Bhagalpur from 7-9 July, 2022 and presented a paper on Methodology of Rescue and Rehabilitation of Gangetic Dolphin.
12. Dr. Gopal Sharma, Scientist E attended an online meeting on Project Dolphin with ADG Forest MoEF&CC New Delhi on 14.07.2022 to organise "National Dolphin Day" on 5th Oct.2022 at Varanasi; attended an online meeting of Nagar Rajbhasha Karyanvayan Samite Bihar on 21.07.2022 and attended a meeting of Namami Gange, organised by Jila Ganga Samiti, Patna in District Magistrate Patna on 25.07.2022.

TRAININGS/ WEBINAR ORGANISED

1. Protozoology Section, Head Quarter Kolkata organized a High-End workshop on Taxonomy, Ecology and Genetic Analysis of Indian Scyphozoans from 18th July to 24th July,2022 under the Accelerate Vigyan Scheme of Dept. Of Science and Technology.
2. Mammal and Osteology section, Head Quarter Kolkata Organized one week DST-SERB sponsored Karyashala on Demonstrating SOPs to combat illegal wildlife trade & strengthening wildlife forensic capabilities in India from 25th July to 31st July 2022
3. WRC, ZSI, Pune has organized a national workshop on "Capacity Building for Young Lepidopterologist: Insight into the Biology and Conservation of Lepidoptera with emphasis on moths" sponsored by the Department of Science & Technology, Government of India under the Science & Engineering Research Board's scheme on 'Accelerate Vigyan' from 18th to 24th July 2022; Dr. Basudev Tripathy, Scientist-E & Officer-in-Charge, WRC, Pune organized a capacity building workshop on "Monitoring wildlife and conservation issues" for the staff of JSW at JSW, Vijayanagar on 25th July 2022.
4. ZSI, NRC, Dehradun organized training programme on "Value added Certificate Course on Animal Taxonomy- Lepidoptera" for M. Sc. Zoology (Final Year) students of Dolphin (PG) Institute of Biomedical and Natural Medical Sciences, Dehradun for one week from 22nd to 29th July, 2022.

TRAININGS ATTENDED

1. Dr. A.S. Kalawate, Scientist-E attended a workshop on Phylogenetics organized by Biologia Life Sciences from 27th June to 1st July 2022.
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2. Dr Jhikmik Dasgupta participated and successfully completed the International Training Workshop on DNA Barcoding & Molecular Taxonomy- ITW'04 organized by Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, Cochin University of Science & Technology (CUSAT) from 11th to 16th July, 2022.
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3. Sh. Akhil Nair, Senior Zoological Assistant & Sh. Rajesh Somkuwar, Field Assistant attended the daily online classes of Hindi typing training course (17th February, 2022 to 15th July, 2022) organized by Hindi teaching Scheme, Dept. of Official Language.
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Forest Service officer trainees from 2022-24 SFS Course of CASFOS, Dehradun at ZSI, NRC, Dehradun on 22nd July, 2022.
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6. Dr. Anil Mohapatra, Scientist-E, delivered a lecture on "Current trends in marine fish species discovery in India" on 11th July, 2022, at P.G. Department of Marine Science, Berhampur University, Berhampur; Served as a Panel Member for the selection of a Project Assistant in OHSEC, Govt. of Odisha sponsored project in the Department of Biotechnology, Berhampur University on 26th July, 2022.
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7. Dr. Gopal Sharma Scientist E delivered a lecture in NCC Headquarters Rajendra Nagar Patna on conservation of wild animals wsr to Gangetic Dolphin on 10.07.2022.
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8. Dr. M. E. Hassan, Scientist-E delivered a lecture on "Fundamentals of Entomological research" to the visiting students during their visit to GPRC, ZSI, Patna.
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9. Dr. Devanshu Gupta, Scientist-C delivered a lecture on "Beetle Diversity of India with reference to Fireflies in a webinar on Fireflies, Ecology & Environment on 22nd July, 2022, organized by Environmental Management & Policy Research Institute, Bengaluru through video conferencing
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10. Dr. N. Marimuthu delivered lecture on "Influence of environmental indicators of Hydrozoan blue button jelly bloom in the Lakshadweep Archipelago- A case study" on 20.07.2022 in DST-SERB funded Karyasahala Workshop on Taxonomy, Ecology and Genetic Analysis of Indian Scyphozoans (Jellyfishes) at ZSI-HQ, Kolkata
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11. Dr.K.A. Subramanian, Scientist-E delivered a lecture on Freshwater Macroinvertebrates of the Western Ghats on 20.07.2022, organised by Agarkar Research Institute, Pune.
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LECTURES DELIVERED

1. Dr. Indu Sharma, Scientist-E delivered Invited lectures on "*General Principles of Aquaculture*" and "*Construction of typical aquaculture farm and type of Culture System*" at JNV University Jodhpur to the Research Scholars on 18th July, and 23rd July, 2022.
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2. Dr. P.C. Pathania, Scientist-D acted as resource person and delivered a Lecture on Microlepidoptera diversity of India, provided Hands on Training in the Lepidoptera Karyashala: Capacity building for young Lepidopterisist from July 18-22, 2022 at WRC, ZSI Pune.
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3. Dr. Gaurav Sharma, Scientist-E delivered a lecture on the topic entitled 'Faunal diversity of Uttarakhand' to delegates/visitors during "*Mega Exhibition- Rise in Uttarakhand*" held at Hotel Pacific, Dehradun on 07th July, 2022; delivered a lecture on the topic entitled 'Faunal diversity of Haryana' to delegates/visitors during "*Mega Exhibition- Arising Haryana*" held at Hotel Royal Grand, Hisar, Haryana on 28th July, 2022.
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4. Dr. Anil Kumar, Scientist-E delivered a lecture on the topic entitled 'Birds identification' to a batch of 74 State Forest Service officer trainees from 2022-24 SFS Course of CASFOS, Dehradun at ZSI, NRC, Dehradun on 22nd July, 2022.
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5. Dr. Narender Sharma, Scientist-E delivered a lecture on the topic entitled 'Insect orders and their identification' to a batch of 74 State



Dr. M. B. Raghunathan, Former Scientist, Southern Regional Centre, ZSI, Chennai received a Degree of Doctor of Science in Zoology from University of Madras for his outstanding contributions to the inland water faunal diversity with special reference to certain Zooplankton, Zoobenthos and Nekton.

EVENTS





107th Foundation Day of ZSI Celebration



All women expedition to Lahaul valley : Flag off by Director, ZSI



Release of Scyphozoa book on the occasion of Workshop on Scyphozoa



Participants of Workshop on Scyphozoa