



ZSI enews



सत्यमेव जयते



Ministry of Environment,
Forest and Climate Change



Zoological Survey
of India, 1916



आज़ादी का
अमृत महोत्सव

From the Director's Desk



I am glad to present the E News of June 2022 to the readers. The month witnessed with the conductance of surveys in Andaman and Nicobar Islands, Arunachal Pradesh, Bihar, Karnataka, Kerala, Odisha and West Bengal which includes the protected areas such as Kali Tiger Reserve and Mookambika Wildlife Sanctuary. As a contribution to animal discoveries, one species of bat has been newly described from Meghalaya while four species including insect and bird reported as new addition to Indian fauna. A total of 42 DNA barcodes of 21 species have been generated and submitted to the GenBank. ZSI HQ and RCs celebrated World Environment Day on 5.6.2022 under the theme "only one earth". All the Officers and Staffs participated in the programme, and students were made aware of the country's faunal resources. Cleanliness drive, tree plantation and painting competition were organized in various RCs. Altogether 20,813 people including college students and school children visited ZSI Regional Centres across the country. As a part of disseminating the knowledge acquired by ZSI, 25 publications have been made in different journals of scientific repute.

I congratulate all the officers and staff of ZSI for making significant progress

Jai Hind

Dr. DHRITI BANERJEE
Director
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Kolkata

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Email: director@zsi.gov.in
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Cover photo: Indian white-
eye *Zosterops palpebrosus*
(Temminck, 1824)

HEADQUARTERS, KOLKATA

As required by the administrative ministry inputs for draft proposal of Panama to list the Family Carcharhinidae (Requiem Sharks) on Appendix II of CITES at CITES CoP-19 and inputs for ZSI for CITES Secretariat facilitating Israel's consultation with range states in respect of its intention to submit a proposal to include the

family Rhinobatidae (Guitarfishes) on Appendix II of CITES, submitted to administrative Ministry on 1st June 2022. A new species of oxyopid spider (*Hamataliwa indica* Sen & Sureshan, 2022) has been described from Agasthyamalai Biosphere Reserve of Southern Western Ghats. The identification services rendered to TRA, Tocklai,

Jorhat, Assam and Moolji Jaitha College, Jalgaon on Diptera, Isoptera section on Spiders, Department of Biotechnology Bodoland University, Assam on Orthoptera, Sambalpur University and FBRC, Hyderabad, on earthworms, Forest Range Officer, WCCC & DMU, Salt Lake, Kolkata on Cnidarian, Sambalpur University for Formicidae. Three species of Platyhelminthes have

been augmented to National Zoological Collections. Prepared talking points for Hon'ble PM based on recent environmental policies and initiatives having positive impact on the environment and submitted to MoEFCC on 1.6.2022 Celebrated World Environment Day on 5.6.2022 under the theme "only one earth". All the Officers and Staffs participated in the programme,

World Yoga Day
Celebration at ZSI
Headquarters



NORTH EASTERN REGIONAL CENTRE, SHILLONG, MEGHALAYA



Celebration of World Environment Day

One new species of bat discovered in more than a decade from Meghalaya, *Glischropus meghalayanus* Saikia, Ruedi & Csorba was described. To commemorate World Environment Day, an awareness programme was organized at SOS village, Shillong on 5th June 2022 and an elocution competition was organized at the Office on 6th June 2022. International Day of Yoga was organized with Meghalaya Yoga Samiti on the 21st June 2022. Scientists of the centre identified 56 spp. (Pisces- 09 spp., Amphibia- 06 spp., Reptilia- 03 spp., Mammalia- 07 spp., Crustacea- 03 spp., Dermaptera-03 spp., Hemiptera- 25 spp.).



WESTERN REGIONAL CENTRE, PUNE, MAHARASHTRA

World Bicycle Day



importing snakes from Africa and to Dr. Rahul from the Kolhapur University in examining and identification of few specimens of the genus *Phrynoderma* (Amphibia). 19 mt DNA barcodes belonging to 8 species of amphibians from the peninsular India were submitted to the GenBank.

World Environment Day



International Yoga Day

Survey conducted to Kali Tiger Reserve, Karnataka from 07.06.2022 to 15.06.2022. Two research articles and one book chapter have been published. A total of 88 species belonging to 5 different faunal groups have been identified during this month. World Bicycle Day, World Environment Day and International Yoga Day were observed in the Centre. Identified confiscated materials for the Police Sub Inspector, Badlapur East Police Station, Thane City, Maharashtra and Police Sub Inspector, Rajgad Police Station, Pune Rural, Maharashtra. Advisory services provided to the Principal Chief Conservator of Forests (Wildlife), Nagpur, Maharashtra State regarding the natural distribution of snakes of African origin for



CENTRAL ZONE REGIONAL CENTRE, JABALPUR, MADHYA PRADESH



Pterocles indicus (Gmelin, 1789), Painted sandgrouse

International day of yoga being celebrated at CZRC



World Environment Day was celebrated on 5th June, 2022 by organizing Drawing competitions and Quiz competitions. In connection with that a virtual lecture was delivered by Dr. Vijay Sathe, Retired professor of Deccan College, Pune on "Fossils and their ecological relevance". International Day of Yoga was observed on 22nd June, 2022 by organizing yoga session for the office members under the supervision of invited yoga instructor Mrs. Usha Soni. An online lecture was organized in which the speaker Ms. Seena Ramesh Kothari, Yoga instructor from Pune delivered a lecture on "Yoga in and along daily life". In addition World bicycle Day was also celebrated on 3rd June 2022. Identified and registered 98 species of Amphibia, Coleoptera, Odonata, Lepidoptera, Hemiptera, Orthoptera and Scorpionida. Identification services rendered to JNKVV, Jabalpur (M.P.) and Dean Student Welfare, Jabalpur (M.P.) on Insects. 1 holotype of Nematode: *Rotundocolarette n. gen. capoori n. sp.* received from University of Allahabad (UP) added to the National Zoological Collection of the Centre.

DESERT REGIONAL CENTRE, JODHPUR, RAJASTHAN



Eryx johnii (Russell, 1801)

Celebrated "World Environment Day" on 5th June, 2022 by organizing rally among the officials of the Centre with the involvement of the students and locals. Dr. Indu Sharma, Scientist-E delivered a lecture on "Importance of World Environment Day and Biodiversity Conservation for Humanity". Celebrated "World Bicycle Day" on 3rd June 2022. Conducted Quarterly meeting of Hindi on 6th June, 2022 and Celebrated "Hindi Karyshala" on 7th June 2022. Celebrated "International Yoga Day" on 21st June 2022. Fifty seven species (14 species of Arachnida, 4 species of Gastropoda, 35 species of insects and 4 species of Pisces) have been identified. Identification services rendered to Zoological Survey of India Dehradun and Department of Zoology, Punjab University on Hymenoptera.



Celebration of WED and Yoga Day

NORTHERN REGIONAL CENTRE, DEHRADUN, UTTARAKHAND

Scientists of the Centre identified 60 species belonging to eight faunal groups. Four DNA barcodes were generated belonging to Reptiles. The Officer-in-Charge & Scientists of the Centre attended the 'Uttarakhand State Science & Technology Congress, jointly organized by the UCOST and Graphic Era University from 22- 24 June 2022. The Centre organized World Bicycle day, World Environment Day, International Yoga day. Two research papers were reviewed for National Journals.



Oriental magpie-robin, *Copsychus saularis* (Linnaeus, 1758)

World Bicycle Day celebration



Awareness rally on
World Environment Day

SOUTHERN REGIONAL CENTRE, CHENNAI, TAMIL NADU

Altogether 118 species including Zooplankton, Blattodea, Odonata, Lepidoptera, Psocoptera, Plecoptera, Pisces, and Reptiles were identified. Fifteen students from New College and Guru Nanak College, Chennai, and Bharathiar University, Coimbatore are currently undergoing internship program on animal taxonomy. The World Environment Day was celebrated by conducting a series of activities with the participation of students under the theme 'Only One Earth' and also celebrated International Yoga Day under the theme of 'Yoga for Humanity'.

International Yoga Day
celebration





GANGETIC PLAINS REGIONAL CENTRE, PATNA, BIHAR

A Dolphin Census Survey methodology was demonstrated from NIT Ghat Patna Fatuha in 22km stretch of River Ganga on 04.06.2022. One exhibition on insect diversity was arranged at GPRC ZSI patna on 5.06.2022. Local Survey under "Fauna of Baraila Lake & Bhimbandh Wildlife, Bihar" was conducted on 10.06.2022. Thirteen species of fishes, 12 species of molluscs,

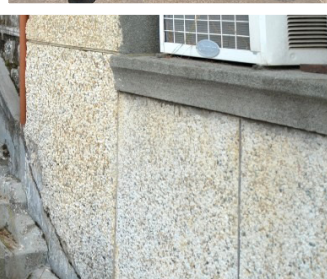
19 species of Hemiptera, 4 Lepidoptera, 1 each Hymenoptera and Odonata were identified. Identification and advisory services provided to JP University, Chhapra, Bihar on Birds. International Yoga Day and World Environment Day were organised in the centre.

HIGH ALTITUDE REGIONAL CENTRE, SOLAN, HIMACHAL PRADESH

The centre celebrated World Bicycle Day on 03rd June, 2022 in collaboration with Nehru Yuva Kendra. The World Environment Day and International Yoga day were celebrated on 05th and 21st June, 2022 with the participation of School students. Identification and Advisory Service provided to Punjabi University, Patiala (Punjab) on Lepidoptera and Himalayan Forest Research Institute, Panthaghathi, Shimla. Two research papers reviewed for the Zootaxa and Records of Zoological Survey of India. A total of 63 species belonging to Pisces, Lepidoptera and Trichoptera were identified for the month.



World Bicycle Day



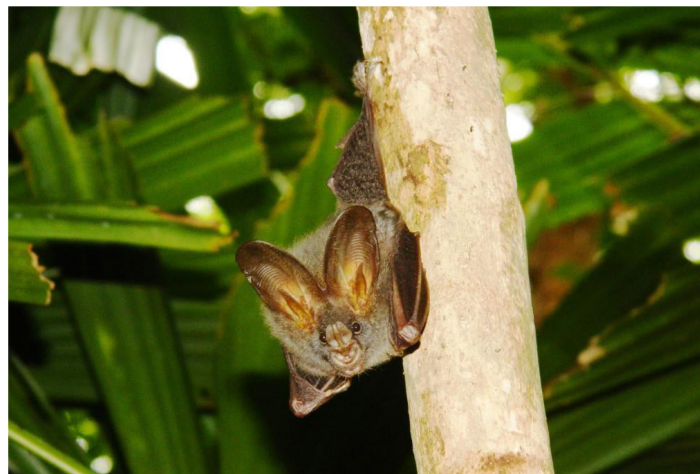
World Environment Day

ANDAMAN AND NICOBAR REGIONAL CENTRE, PORT BLAIR



| Copper Cheeked Frog *Chalcorana chalconota* Schlegel 1837

Celebrated World Environment Day, with the participation of the School / College students and distributed about 200 seedling to local public & schools in collaboration with Department of Environment & Forests; Organized Exhibition on faunal diversity of A & N Islands through, LED displays, pamphlets, and brochures. Three long term surveys conducted to Nancowry group of



| False Vampires *Megaderma spasma* Linnaeus 1758

Islands; 14 days local field surveys were conducted in South Andaman. A total of 301 species comprised of Coral - 62 species; Zooanthid - 1 species; Fishes - 28 species; Helioporacea - 1 species; Alyonacea - 1 species; Mollusca - 14 species; Echinoderms - 12 species were identified from the marine environment and Leiodoptera - 77 species; Arachnida - 22 species; Birds - 54 species; Odonata - 2 species; Reptiles - 18 species; Amphibia - 9 species were identified from the terrestrial environment. Identified 4 species of Fishes and 2 species of Echinoderms for the Department of Environment & Forests, Andaman & Nicobar Islands.

SUNDERBAN REGIONAL CENTRE, CANNING, WEST BENGAL

Five days local survey conducted. A total of 119 spp. were identified containing 59 spp. of fish, 51 spp. of Mollusca, 6 spp. of Crustaceans, 2 spp. of Echinoderms and one reptile species. Seven examples of live softcorals were identified for Forest Department, West Bengal. World Bicycle Day celebrated with staff members on 3rd June 2022, World Environment Day celebrated with school students and public and International Yoga Day celebrated on 21st June 2022.

FRESHWATER BIOLOGY REGIONAL CENTRE, HYDERABAD, TELANGANA

FBRC organized a series of activities and competitions for school students as part of World Environment Day celebrations on 5th June 2022. Sri. C. Chandrasekhar, GM(HMWSB) and Sri G. Anjaneyulu, AMoH (GHMC) graced occasion and enlightened the students on importance of Environment. The centre also exhibited specimens and posters in Zoological Survey of India stall in the exhibition organised by Telangana State Biodiversity Board. Centre observed World Bicycle day on 3rd June 2022; also practiced Yoga Asanas on 6th June 2022 to mark the countdown of Yoga Day and also on 8th International Day of Yoga on 21st June 2022. Two research articles have been published. 14 species of Aquatic Coleoptera, 15 species of Aquatic Hemiptera, 3 species of



| *Chamaeleo zeylanicus* (Laurenti, 1768) Indian Chameleon



| World Bicycle day celebration

Ostracoda, 5 species of Branchiopoda, 13 species of Mollusca, 3 species of Odonata, 8 species of Amphibia and 19 species of fishes identified during the month of June. Nine sequences have been submitted to NCBI.



Ten days survey conducted to Mookambika Wildlife Sanctuary from 15.06.2022 to 24.06.2022. and a local survey was conducted to Kadalundi. A total of 119 species identified from Protozoa, Crustacea, Arachnida, Coleoptera, Hymenoptera,



Mollusca and fish. Identification and advisory services provided to Hindustan College of Arts & Science, Coimbatore, Forensic Science & Criminology, SMS College of Arts & Science, Sivakasi on Hymenoptera and Govt. College, Payyanur, Kerala on Mollusca. World Environment Day celebrated in the centre on 05.06.2022 by cleaning the Sarovararam Biopark premises, Kozhikode and provided environment awareness to the general public in the park. International Day of Yoga was celebrated on 22nd June 2022

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

On the occasion of World Environment Day, organised an outreach programme as a part of Jan Bhagidari with children from the villages. One day local survey to Bahuda estuary was carried out. A total of 68 species were identified which includes insects, crustaceans, molluscs, fishes and reptiles. Two DNA barcodes were uploaded. Scientists of the centre reviewed 4 manuscripts for different journals. International Day of Yoga, 2022 was celebrated on 21st June 2022.



International Yoga Day



ARUNACHAL PRADESH REGIONAL CENTRE, ITANAGAR

World Environment
Day Celebration

Summer Internship
Valedictory function



Cleanliness drive, tree plantation and painting competition were organized in APRC on the occasion of World Environment Day, 2022. Celebrated Internal Yoga Day, 2022, on the 21st June, 2022 in the office auditorium. Six M.Sc students from the Department of Life Sciences, CHRIST, Bengaluru, underwent Summer Internship training of 22 days duration (6th to 27th June, 2022) on "Field Surveys, Collection, Preservation and Basic Identification of Fauna." A total of 51 species (Diplopoda 1 sp., Lepidoptera 27 spp., Orthoptera 7 spp., Coleoptera 1 sp., Blattoidea 1 sp., Decapoda 5 spp., Pisces 4 spp. & Amphibia 5 spp.) were identified by the Scientists of the Centre during the month.



World Bicycle Day
observation

International Yoga
Day celebration

MARINE AQUARIUM AND REGIONAL CENTRE, DIGHA, WEST BENGAL

World Environment Day, World Bicycle Day and International Yoga Day were celebrated in the centre in presence of students and faculty from Ramnagar College, Digha. 09 days local survey conducted [01st, 02nd, 08th, 14th, 15th, 19th, 20th, 21st & 24th June 2022] at Digha Mohana & Udaypur, West Bengal & Kirtania, Odisha. Total 79 species belonging to Mollusca (41 spp.), Chordata (28 spp.), Annelida (03 spp.), Arthropoda (03 spp.), Echinodermata (03 spp.) and Cnidaria (01 sp.) were identified during this month. 18 days Summer internship programme organized for M. Sc Biotechnology students from Bharatidasan University. Identification services rendered to EBRC, ZSI on Mollusca.



NEW DISCOVERIES AND NEW RECORDS

NEW SPECIES



Glischropus meghalayanus Saikia, Ruedi & Csorba, 2022



Hamataliwa indica Sen & Sureshan, 2022

PUBLICATIONS

PAPERS

- Chand, D.S., Das, S.K. and Kumar, H. 2022. Diversity of short and long-horned grasshoppers of Arunachal Pradesh, India. *Records of the Zoological Survey of India*, 122(1): 65–72.
- Chand, D.S., Gupta, S.K., Das, S.K., Kumar, H., Chakraborty, R. and Singh, S. 2022. New records of Orthoptera (Insecta) from Sagar Island, West Bengal, India. *Journal of Applied Zoological Researches*, 33(1): 78–97.
- Das, P. & Sheela, S. 2022. Ant diversity of an urban garden with a new record from India. *Records of Zoological Survey of India*, Vol. 122 (1):83–90. DOI: 10.26515/rzsi/v122/i1/2022/163936
- Deepa, J. Shiva Shankar, Karuthapandi, M, Shrikant, J and Rehanuma, SK. 2022. Occurrence of *Coelostoma* (*Lachnocoelostoma*) *horni* (Régimbart, 1902) (Coleoptera: Hydrophilidae) from Deccan Peninsular, India. *Records of Zoological survey of India*, 122(1):113–116.
- Ghosh, S., Bal, S., Mandal, C.K. & Banerjee, D. 2022. Computational Tools in predicting Earthworm Distribution: A Pilot Study. *Indian Journal of Ecology* 49 (3): 973-976.
- Jaiswal, D., Kumar, D., Shankar, S. & Madasamy, K. 2022. Diversity and Distribution of Aquatic Beetles (Insecta: Coleoptera) in Kawal Tiger Reserve, Telangana, India. *Species*, 23(71): 277-284.
- Kubendran, T., Vasanth, M., Selvakumar, C., Fatima Jabeen, Subramanian, K. A. & Rathinakumar, T. 2022. Redescription of *Cloeon bicolor* Kimmins, 1947 (Ephemeroptera: Baetidae) from Southern India. *J. ent. Res.*, 46 (2): 398-402.
- Kumar, A., Sharma, G. & Khan, I. A. 2022. An updated checklist of Mammals of Uttarakhand, India. *Rec. zool. Surv. India*, 122(1): 01-16.
- Mandal, C.K., Dhani, S. & Ghosh, S. 2022. Annelida: leech fauna of Maharashtra with four new records. *J. Appl. Zool. Res.* 33(1): 50-59.

10. Patrick David, Patrick D. Campbell, Kaushik Deuti, Sjon Hauser, Vinh Quang Luu, Truong Quang Nguyen, Nikolai Orlov, Olivier S. G. Pauwels, Lauren Scheinberg, Priyadarsi Girija Sankar Sethy, Ton Smits, Alexandre Teynié & Gernot Vogel. 2022. On the distribution of *Gonyosoma prasinum* (Blyth, 1854) and *Gonyosoma coeruleum* Liu, Hou, Ye Htet Lwin, Wang & Rao, 2021, with a note on the status of *Gonyosoma gramineum* Günther, 1864 (Squamata: Serpentes: Colubridae), *Zootaxa*, 5154 (2): 175–197.
11. Panda, P., Sen, A. Mahapatra, P. & Kumar, J.S.Y. 2022. First record of *Pterois russelii* in the Sunderban Biosphere Reserve, India. *Journal of Scientific Research & Reports*, 28(6):44–48.
12. Prasad, V.K., Chuang, M. F., Das, A., Ramesh, K., Yi, Y., Dinesh, K.P. and Borzée, A. 2022. Coexisting good neighbours: acoustic and calling microhabitat niche partitioning in two elusive syntopic species of balloon frogs, *Uperodon systoma* and *U. globulosus* (Anura: Microhylidae) and potential of individual vocal signatures. *BMC Zoology*, 7 (27): 1–12. DOI: <https://doi.org/10.1186/s40850-022-00132-x>
13. Saikia, C.U., Ruedi, M. & Csorba, G. 2022. Out of Southeast Asia: a new species of thick-thumbed bat (Chiroptera: Vespertilionidae: *Glischropus*) from Meghalaya, northeastern India. *Zootaxa*, 5154(3):355–364.
14. Sen, S. & Sureshan, P. M. 2022. A new species of *Hamataliwa* (Araneae: Oxyopidae) from Western Ghats, India. *Travaux du Muséum National d'Histoire Naturelle "Grigore Antipa"*, 65(1): 7–13.
15. Sharma, N. & Goswami, P. 2022. Sphingid (Lepidoptera: Bombycoidea: Sphingidae) Diversity of Zoological Survey of India Campus, Itanagar, with new records to Arunachal Pradesh, India. *Journal of Research in Biology*, 12(3): 3301–3309.
16. Sinha, B. & Nath, K. P. 2022. First confirmed report of Assam Leaf Turtle, *Cyclemys gemeli* Fritz et al., 2008 (Testudines: Testudinoida: Geoemydidae) from Arunachal Pradesh, India. *Rec. Zool. Surv. Ind.*, 122(1): 97–100.
17. Sreeraj, C.R. 2022. First report of two gobiid fishes from the coral reefs of Gulf of Mannar, Tamil Nadu, India. *Records of Zoological Survey of India*. 122(1): 51–55. DOI: [10.26515/rzsi/v122/i1/2022/157524](https://doi.org/10.26515/rzsi/v122/i1/2022/157524).
18. Sreeraj, C.R. and Sen, A. 2022. First Report of Two Mangrove Associated Gobiid Fishes from Tamilnadu, India. *Natl. Acad. Sci. Lett.*. <https://doi.org/10.1007/s40009-022-01128-4> (Impact Factor 2020: 0.788).
19. Suman, K., Jahan, S., Kushwaha, S., Sharma, L.K., and Saha, P. C., 2022. First records of Genus *Hecalus* Stål, 1864 (Hemiptera: Cicadellidae) from Dampa tiger reserve, Mizoram with an updated checklist from India. *Rec. zool. Surv. India*: Vol. 121(3):11–19.
20. Swain, R., Kisku, S., Nayak, L., Mishra, S. S. and Patro, S. 2022. First record of four snapper fishes (Perciformes: Lutjanidae) from Odisha, East coast of India. *Rec. zool. Surv. India*, 122(1): 43–49.
21. Vasanthakumar, D. and Kirschenhofer, E. 2022. New distribution records of two species of metallic ground beetles of the genus *Chlaenius* (Coleoptera: Carabidae: Chlaeniini) from the Western Ghats, India. *Journal of Threatened Taxa*, 14 (6): 21324–21326. DOI: <https://doi.org/10.11609/jott.7590.14.6.21324-21326>
22. Viswanath, T.K., Hegde, V.D. and Girish Kumar, P. 2021. Range extension of the Indian Sand wasp *Stizoides blandinus* (F. Smith, 1856) (Hymenoptera: Crabronidae: Bembicinae). *Devagiri Journal of Science* 7(1): 95–97.

BOOK CHAPTERS

1. Palot, M.J. & Janu. 2022. *Koronakalathu oru Vawwal* [About common bat species of Kerala state, in Malayalam language]. Kerala Shasthra Sahithya Parishath (KSSP), Thrissur, Kerala, 60 pp
2. Sharma N. 2022. Insecta: Lepidoptera. *Fauna of Agroecosystem of Haryana and Punjab*: 33–78. (Published by the Director, Zoological Survey of India, Kolkata).
3. Sharma N & Kumar H. 2022. Insecta: Orthoptera. *Fauna of Agroecosystem of Haryana and Punjab*: 79–112. (Published by the Director, Zoological Survey of India, Kolkata).

MEETINGS ATTENDED

1. Dr. Dhriti Banerjee, Scientist- G & the Director, ZSI attended meeting for finalising modalities of organisations under MoEFCC at MNMH & RCs on 1.6.2022; reviewed Draft Report on Animal Movement and Wild-life Corridor in Rajasthan on 2.6.2022; organised World Environment Day-2022 under the theme "Only One Earth" at Indian Museum, Kolkata on 5.6.2022, and voted for the motive of "JAN BHAGIDARI"; addressed webinar on 'Island Biodiversity' organised by ANRC, ZSI, Port Blair on

- 5.6.2022; addressed an event organised by the WRC, Pune for culmination of the 10 days long ANUSANDHAN camp for KV students; attended meeting cum workshop on National Institution for Research & Application of Natural Resources to Transform, Adapt and Build Resilience (NIRANTAR) at India International Centre, New Delhi on 6th & 7th June, 2022; discussed Ecosystem Research & Conservation; organised a Round Table Discussion on Action Plan and SWOT (Strength, Weakness, Opportunity and Threat) analysis; finalized the Scheduled Species list of Wildlife Pro. Act 8.6.2022; attended a celebration organized by People's Association for Science and Environment (PASE), INSA and NSS Unit, West Bengal Uni. of Animal & Fishery Sciences, Belgachia, Kolkata on 9.6.2022; attended 1st Inventory meeting under the NERAQ Project among ZSI, Instt. of Inland Fisheries in Potsdam-Sacrow, Manipur Uni., Guwahati Uni., Kohima Science College, MSFRTI and GIZ NERAQ Team on 10.6.2022; attended RAPC meeting at SACON, Coimbatore on 11.6.2022; organized yogasana practice session on International Yoga Day (21.6.2022) with theme "Yoga for Humanity" at ZSI-HQ; addressed a webinar and discussed on *Sacred Groves of Meghalaya: A Bastion for Faunal Conservation* organised by the Dept. of Zoology, Sankardev College, Shillong and NERC, Shillong on 23.6.2022; inaugurated Photography & Art Exhibition on wildlife - "Back to Wild" organised by Mayabious Art on 27.6.2022; attended book launch of PASTORAL PURBASTHALI at IICCR, Kolkata.
2. Dr. C. Raghunathan, Scientist- F, attended meeting to draw modalities for sparing exhibits to NMNH convened by MoEFCC on 1.6.2022; attended a Workshop on National Institution for Research and Application of Natural Resources to Transform, Adapt and build Resilience (NIRANTAR) at India International Centre, New Delhi organized by MoEFCC on 6th & 7th June 2022; attended meeting at CCU, MoEFCC on 27.6.2022 to finalize the walk-through 3D images of proposed building for ZSI-EGRC at Amaravati
 3. Dr. Deepa Jaiswal, Scientist-E attended meeting organised by Andhra Pradesh State Biodiversity Board on 2nd June 2022.
 4. Dr. Deepa Jaiswal, Dr. S.S. Jadhav & Dr. M. Karuthapandi attended meeting organized by Telangana State Biodiversity Board on 10th June 2022.
 5. Dr. Avtar Kaur Sidhu, Scientist-E attended NARAKAS meeting as Adhyaksh of centre at Mushroom research centre on 17.06.2022; attended 3rd meeting of the Wildlife Board for Union Territory of Jammu & Kashmir as representative of DZSI under the chairmanship of Honourable governor of UT of J&K His Excellency Sh. Manoj Sinha on 26.06.2022; attended meeting of State Board for Wildlife, UT Chandigarh as representative of DZSI on 27th June, 2022 under the Chairmanship of Hon'ble Governor of Punjab & the Administrator, UT Chandigarh His Excellency Shri Banwarilal Purohit.
 6. Dr. Anil Mohapatra, Scientist-E served as an External committee member for the Dr. C.S. Kar Research fellowship for the year 2022 by PCCF, Wildlife, Odisha on 01.06.2022; served as an Expert in the Selection Committee for selection of Guest Faculty to be engaged on Contractual basis in the P.G. Department of Marine Sciences, Berhampur University on 22nd June 2022.
 7. Dr. C. Sivaperuman, Scientist-E served as an external member for the Departmental Promotion Committee (DPC) for the technical staff at ICAR-Central Island Agricultural Research Institute, Port Blair on 1st & 2nd June 2022; attended meeting with Deputy Conservator of Forests (Wildlife), Department of Environment and Forests, A & N Islands, in connection with proposed Crocodile census in A & N Islands on 6th June 2022; attended meeting with Executive Director, Periyar Science & Technology, Chennai in connection with development of Interpretation Centre in ANRC/ZSI on 13th June 2022; attended meeting with Dr. Karthik, Professor, Indian Institute of Technology, Chennai in connection with preparation of Metacoral biome on 13th June 2022; attended meeting with PCCF, ANI in Satellite Tracking of Leatherback Turtles in ANI on 14th June 2022.
 8. Dr. Gaurav Sharma, Scientist-E attended the Uttar Pradesh State Biodiversity Board meeting on 10th June, 2022, chaired by the honorable Chief Minister, Yogi Adityanath; attended the Uttarakhand State Biodiversity Board meeting on 17th June, 2022, chaired by the honorable Chief Minister, Pushkar Singh Dhami.
 9. Dr. Basudev Tripathy, Scientist-E, and Dr. Aparna S. Kalawate, Scientist-E attended a meeting of the Maharashtra State Board for Wildlife, Maharashtra State with the honourable Chief Minister of the Maharashtra State, Shri Uddhav Thackeray and the PCCF (Wildlife) through virtual mode on 6th June 2022; attended an animal expert committee meeting of the Maharashtra State Biodiversity Board, Nagpur through virtual mode on 7th June 2022.
 10. Dr. Aparna S. Kalawate, Scientist-E attended a meeting with the Maharashtra State Biodiversity Board, Nagpur for declaring Critical Wildlife Habitat through virtual mode on 25th May 2022.

11. Dr. B. Sinha, Scientist-E attended the "Consultation Workshop on Knowledge network in Meghalaya_ Identifying issues and priorities for bridging science, policy and practice" organized by the SCSTE, Meghalaya and G B Pant National Institute of Himalayan Environment on 9th June at Shillong.
12. Dr. S. Balakrishnan, Scientist – D, acted as guest of honour for inaugural function of the new panel exhibition celebration Bengal entitled "Contribution of Bengali Scientist" organised by Digha Science Centre, Digha on 26th June 2022.
13. Dr. Uttam Saikia, Scientist -C attended a meeting of the Meghalaya State Wildlife Board on 7th June which was presided over by the Hon. Chief Minister of Meghalaya
14. Shri. Sreejith S. Kumar, Senior Zoological Assistant attended 69th Half yearly meeting of TOLIC (Town Official Language Implementation Committee) Kozhikode on 10.06.2022.

River Dolphin and its rescue at Kilkari Bal Bhawan, Patna on 02 and 03.06.2022.

3. Dr. Gopal Sharma, Scientist E, and Sh Manish Chandra Patel, Asstt. Zoologist, attended outreach activities as a part of Azadi Ka Amrit Mahotsav on initiation of the Central Zoo Authority, New Delhi in collaboration with Sanjay Gandhi Biological Park, Patna and Zoological Survey of India, Patna on the topic "Gangetic Dolphin-Conservation of National Heritage of India, Conservation to coexistence and The people Connect" and an invited lecture was delivered on Freshwater River Dolphin-rescue and release with dolphin census from 20-26 June 2022.
4. Dr. Anil Mohapatra Presented a talk on "Marine Biodiversity and Conservation: Indian Prospective" in the Webinar organized by Department of Zoology, School of Applied Sciences, Centurion University of Technology and Management, Odisha on 21.06.2022.
5. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered a talk on the Biodiversity of Andaman and Nicobar Islands and an overview of Antarctica to the Faculties and students of College of Nursing, Pondicherry Institute of Medical Sciences (PIMS), Pondicherry on 10th June 2022; provided training on Crocodile census techniques to the frontline staff of Department of Environment and Forests from 19th to 24th June 2022.
6. Dr. Narender Sharma, Scientist-E delivered a lecture on Climate Change and Butterflies on World Environment Day, 5th June, 2022 to the School Children from different schools at ZSI, NRC, Dehradun.
7. Dr. K.P. Dinesh, Scientist-D, as a resource person, delivered an online talk on "Amphibian Diversity in India" in the Webinar on "Communication and popularization of Science and Technology–Promote Scientific Thinking" for the Institute of Bioresources & Sustainable Development Takyelpat, Imphal, Manipur on 9th June 2022.
8. Dr. Aparna S. Kalawate, Scientist-E delivered an online talk on "Role of DNA barcoding in solving species-complex: Olepa a classical example" in the symposium of 103rd annual meeting of the Florida Entomological Society held from 19th to 22nd June 2022.

TRAININGS/ WEBINAR ORGANISED

1. "ANUSANDAN", a summer camp training programme was organized by Western Regional Centre, Pune for the students of Kendriya Vidyalaya (KV1), Dehu Road, Kendriya Vidyalaya (KV2), Dehu Road and Kendriya Vidyalaya, Talegaon from 25th May to 5th June 2022.
2. A webinar "Sacred groves of Meghalaya: a bastion for faunal conservation" was jointly organized by NERC, ZSI with Sankardev College, Shillong on the 23rd June 2022
3. One day seminar on Island Biodiversity of A & N Islands held on 5th June at Andaman and Nicobar Regional Centre.

LECTURES DELIVERED

1. Dr. Avtar Kaur Sidhu, Scientist-E acted as resource person and delivered invited lecture on the topic, "Insect Diversity of Trans Himalayan Region" on 10.06.2022 at Himalayan Forest Research Institute, Shimla in one week refresher training course for IFS Officers from 06th-10th June, 2022.
2. Dr. Gopal Sharma, Scientist E delivered an invited lecture on Conservation of Aquatic animals of River Ganga especially Ganges

EVENTS

World Environment Day at Indian Museum



International Yoga Day at Head
Quarters Kolkata



Pre Press meeting for ZSI
Foundation Day at Kolkata Press
club



Inauguration of Photography & Art Exhibition on wildlife -
"Back to Wild" organized by Mayabious Art.

