



ZSI enews



सत्यमेव जयते



Ministry of Environment,
Forest and Climate Change



Zoological Survey
of India, 1916



From the Director's Desk



On the occasion of India's 75th Year of Independence, ZSI is glad to present the August 2021 issue of E-News commemorating *Azadi ka Amrit Mahotsav*. Our signature publication, *Animal Discoveries 2020 – New Species and New Records* has been published. The book deals with 557 new discoveries, which include 407 new species and 150 newly recorded species to India which leads to the enhancement of Indian fauna to 1,02,718 species as on 1st January 2021. Scientists of ZSI conducted surveys in Sagar Island, Kakdwip and Digha coast of West Bengal, Agro-ecosystem of Bihar, Gautala-Autramghat Wildlife Sanctuary, Pench Tiger Reserve and Bor Wildlife Sanctuary in Maharashtra, Rakh Sarai Amanat Khan, Ranjit Sagar and Beas River conservation reserves in Punjab, temperate and alpine grasslands of Pir Panjal and Zaskar ranges of Himalaya in Lahaul valley of Lahaul & Spiti district in Himachal Pradesh, Amrabad and Kawal Tiger Reserve in Telangana, Rollapadu Wildlife Sanctuary in Andhra Pradesh, Nicobar Islands, and Itanagar Wildlife Sanctuary in Arunachal Pradesh. Altogether 10,880 specimens comprising 1,853 species have been identified. In addition 225 DNA sequences have been generated and submitted to NCBI/ BOLD database. Further it is noteworthy to state that 34 papers have been published by the Scientists of ZSI and all are under peer reviewed journals with impact factor/NAAS rating. Hearty congratulations to the entire fraternity of ZSI for the significant progress made during the month.

Jai Hind

Director
Dr. DHRITI BANERJEE
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Kolkata

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HEADQUARTERS, KOLKATA

Survey has been conducted in Bihar state to understand the faunal diversity in agroecosystem of Bihar. Altogether 4,256 specimens comprising 610 species have been identified during the month, of which 23 species including Nematelminthes (2 spp.), Crustacea (1 sp.), Platygastroidea (3 spp.), Lepidoptera (9 spp.), Hymenoptera (5 spp.), Orthoptera (1 sp.), Hemiptera (1 sp.) and Amphibia (1 sp.) have been augmented as new to National Zoological Collections. Two new species viz. *Andreimyrmex paniya* Terine, Lelej and Girish Kumar, 2021 [Hymenoptera] and *Glyptothorax rupiri* Kosygin, Singh and Rath, 2021 [Pisces] were described while *Caesio xanthonota* Bleeker, 1853 [Pisces] and *Araneus tubabdomius* Zhu & Zhang, 1993 [Spider] reported as new record to India. Altogether 14 identification and advisory services have been rendered to various institutions and agencies, including confiscated shawl for the Customs Office, Air Cargo Export, New Delhi. As required by to West Bengal State Biodiversity Board, 56 PBRs under 7 districts viz. North 24 Parganas, South 24 Parganas, Darjeeling, Howrah, Kalimpong, Birbhum and Murshidabad districts of West Bengal have been evaluated and the reports are submitted. Updated the data for the IUCN Red list and submitted to the Ministry of Statistics and Programme Implementation while replying the RTI query about the EIA studies for holistic development of Great Nicobar Island. Replies for Lok Sabha q.no. 4303 regarding Wildlife Census and for Rajya Sabha Starred Q. No.218 on Wildlife Protection, and Conservation were submitted to the administrative Ministry. Discussions were made with the Statistics Division, MoEFCC New Delhi, regarding Data Quality Governance Index. The meeting on (GiZ) Indo-German bilateral programme of MoEFCC was convened for the submission of project proposal on "Protection and Sustainable Management of Aquatic Resources in the Northeastern Himalayan Region of India (NERAQ Project). India's 75th Independence Day was celebrated in which Dr. Dhriti Banerjee, Director, ZSI hoisted the National Flag.

Dr. Dhriti Banerjee,
Director, ZSI hoisting
the National Flag



NORTH EASTERN REGIONAL CENTRE, SHILLONG, MEGHALAYA

Independence Day Celebration



Indian Peafowl *Pavo cristatus* Linnaeus, 1758

Altogether 27 species (155 examples) pertaining to Reptilia (3 species), Amphibia (5), Pisces (13), Crustacea (1), and Hemiptera (5) were identified. Identification services were provided to CES, Indian Institute of Science, Bangalore, Prof. D. Kar, Department of Life Sciences, Assam University, Silchar, and a manuscript entitled "Women in MGNREGS: Issues for Investigation" was reviewed for *Academia Letters*.

WESTERN REGIONAL CENTRE, PUNE, MAHARASHTRA

Red Avadavat,
Amandava
amandava
(Linnaeus, 1758)



One survey was conducted to Gautala-Autramghat Wildlife Sanctuary, Maharashtra, from 09.08.2021 to 18.08.2021. A total of 609 specimens pertaining to 89 species of Coleoptera, Lepidoptera, Odonata, Orthoptera, Decapoda and Amphibia were identified. Eight DNA sequences of amphibians were submitted to the GenBank. Identification of a confiscated bird specimen was done for the Range Forest Officer, Rajpur, Akole, Ahmednagar district, Maharashtra. Identification services were provided to Department of Agricultural Entomology, University of Agricultural and Horticultural Sciences, Shivamogga, Karnataka on Gall midges and a student of Symbiosis University, Pune for her project work on "Spatial distribution modelling of Pit Vipers along Peninsular India".

Independence Day
Celebrations



CENTRAL ZONE REGIONAL CENTRE, JABALPUR, MADHYA PRADESH

Survey undertaken to Pench Tiger Reserve and Bor Wildlife Sanctuary, Maharashtra from 20th to 28th August 2021. Identified and registered 176 specimens into 66 species comprising Lepidoptera (30), Reptilia (13), Amphibia (17) and Scorpions (6). Local surveys were conducted to Dumna Nature Reserve, Jabalpur Katangi, Bijadandi, Panda Baba of districts Jabalpur and Damoh during the month. Two manuscripts were reviewed for *Records of the Zoological Survey of India* and one for *Journal of Bombay Natural History Society*.



Lesser Adjutant,
Leptoptilos javanicus Horsfield, 1824



Indian Grey Hornbill,
Ocyrceros birostris (Scopoli, 1786)

DESERT REGIONAL CENTRE, JODHPUR, RAJASTHAN

Common Emigrant *Catopsilia*
pomona (Fabricius, 1775)



Twenty-five species (4 Gastropoda, 13 Insecta, 7 Pisces and 1 Amphibia) from 273 specimens were identified during the month. 20 species of Orthoptera (Acrididae) referable to 71 examples have been identified from Amrabad Tiger Reserve and Kawal Tiger Reserve, Telangana received from FBRC, ZSI, Hyderabad. Six outreach activities were carried out to the local farmers in Nobra, Changthang, Kargil and Zaskar subdivisions of the Union Territory of Ladakh during the period and 2 similar activities were carried out in Himachal Pradesh. Three papers had been reviewed by the scientists of the centre.



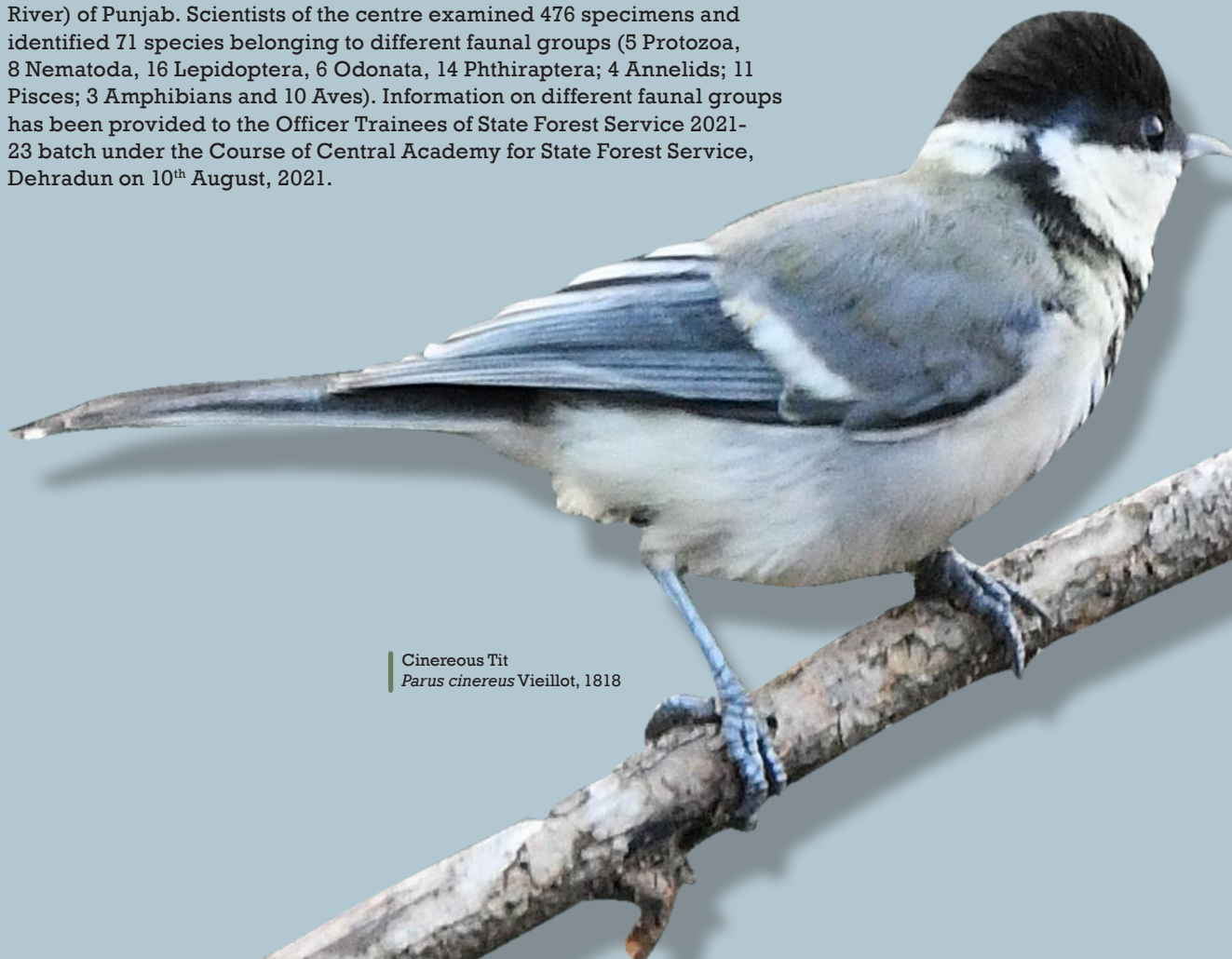
Independence Day
Celebrations

NORTHERN REGIONAL CENTRE, DEHRADUN, UTTARAKHAND



Pale-billed Flowerpecker
Dicaeum erythrorhynchos
(Latham, 1790)

One faunal survey was undertaken from 6th to 20th August-2021 to the three Conservation reserves (Rakh Sarai Amanat Khan, Ranjit Sagar and Beas River) of Punjab. Scientists of the centre examined 476 specimens and identified 71 species belonging to different faunal groups (5 Protozoa, 8 Nematoda, 16 Lepidoptera, 6 Odonata, 14 Phthiraptera; 4 Annelids; 11 Pisces; 3 Amphibians and 10 Aves). Information on different faunal groups has been provided to the Officer Trainees of State Forest Service 2021-23 batch under the Course of Central Academy for State Forest Service, Dehradun on 10th August, 2021.



Cinereous Tit
Parus cinereus Vieillot, 1818

SOUTHERN REGIONAL CENTRE, CHENNAI, TAMIL NADU



Scientists of the centre identified and registered 770 specimens into 79 species of various faunal groups viz. Ephemeroptera, Odonata, Coleoptera, Hemiptera, Blattodea, Psocoptera and Reptilia. About 1,970 specimens of different taxa collected from the Meghamalai Wildlife Sanctuary from 8-30 July, 2021. The molluscan species *Diplommatinaparieto dentatum* Aravind, 2021 is augmented to the National Zoological Collections.

Spotbilled Duck *Anas poecilorhyncha* Foster 1781



Spotted Deer *Axis axis* (Erxleben, 1777)

GANGETIC PLAINS REGIONAL CENTRE, PATNA, BIHAR



Identified and registered 526 examples representing 52 species (18 molluscs, 20 Arthropods and 17 fishes) from the collections of Eastern Ghats. Fourteen species of Mollusca were identified for Jai Prakash University, Chhapra.

White Pelican *Pelecanus onocrotalus* Linnaeus, 1758

HIGH ALTITUDE REGIONAL CENTRE, SOLAN, HIMACHAL PRADESH

Himalayan Marmot in
Grasslands of Lahaul Valley



Hill Pigeon *Columba
rupestris* Pallas 1811



One extensive survey was conducted in Temperate and Alpine grasslands of Pir Panjal and Zaskar ranges of Himalaya in Lahaul valley of Lahaul & Spiti district of Himachal Pradesh from August 16-29, 2021 and 2408 examples of 16 faunal groups were collected. 59 species (52 insects, 7 Herpetofauna) containing 242 examples identified. Identification and advisory services were provided to Zoology Department, Eternal University, Baru Sahib, Sirmour (HP) and Government Degree College, Hamirpur. Four manuscripts have been reviewed for various journals.

MARINE BIOLOGY REGIONAL CENTRE, CHENNAI, TAMIL NADU



Dislocated corals ready for
translocation



A total of 41 species from 143 examples were identified into moss inhabiting Testate Amoebae (16), Marine Sponges (10), Crab (5), Mollusca (5) and Echinoderms (5). A survey was undertaken to Western Himalaya under the programme 'Studies on the Morphology and Ecology of testate amoebae (Protozoa: Rhizopoda)' from 2-13 August 2021 and 106 moss samples

Coral translocation
works in progress in
Gulf of Kachchh

were collected. Translocation of corals and associated data collection were initiated under the recently awarded project to translocate corals from Indian Oil Corporation Limited (IOCL)'s proposed pipeline in Wadinar, Gulf of Kachchh. Colonies (4726 numbers) from 37 grids (25 x 30 m area) in western and eastern sites were translocated so far.

Orange-headed Thrush
Geokichla citrina andamanensis
Walden, 1874



ANDAMAN AND NICOBAR REGIONAL CENTRE, PORT BLAIR

False Vampires
Megaderma spasma Linnaeus, 1758

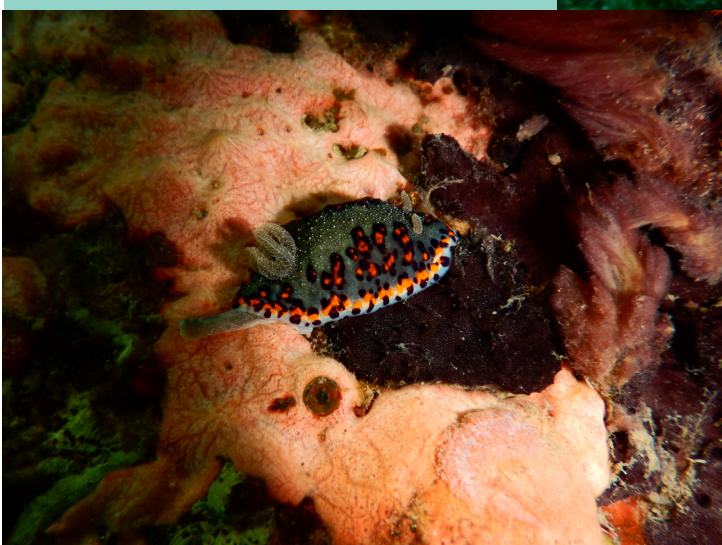


Ten days long surveys were conducted during 23rd to 31st August 2021 to Nicobar group of Islands to study the terrestrial and marine faunal diversity. A total of 348 species comprised of Sea Anemone (10), Mollusca (32), Fishes (20), Corallimorpharia (1) were identified from marine environment and Amphibia (11), Coleoptera (1), birds (67), Hemiptera (5), Odonata (3), Lepidoptera (113), Arachnida (66), Mammals (6), and Reptiles (13) from the terrestrial environment.

SUNDERBAN REGIONAL CENTRE, CANNING, WEST BENGAL



Goniobranchus fidelis (Kelaart, 1858)



Goniobranchus bombayanus
(Winckworth, 1946)

Three days local survey conducted in Sagar Island and Kakdwip on 6th, 20th and 21st August 2021. Identified 536 examples with 50 species containing Mollusca and Fishes. Fifteen species of Molluscs added newly to the National Zoological Collections.

FRESHWATER BIOLOGY REGIONAL CENTRE, HYDERABAD, TELANGANA

Blackbuck
Antelope cervicapra (Linnaeus, 1758)



Two field surveys to Amrabad and Kawal Tiger Reserve, Telangana from 9th to 24th August 2021 and Rollapadu WLS of Andhra Pradesh from 25th to 29th August 2021 were conducted. The scientists and scientific staff of the centre identified 8 species (131 examples) of Cladocera, 15 species (47

examples) of aquatic Coleoptera, 7 species (28 examples) of Aquatic Hemiptera, 4 species (42 examples) of Decapoda, 5 species (33 examples) of Ostracods & Branchiopoda, 12 species (196 examples) of Mollusca, 42 species of fishes (285 examples) from various locations of Telangana, Andhra Pradesh, Jharkhand and Tamil Nadu. DNA sequences of eleven sequences have been submitted to NCBI.

Indian Eagle Owl
Bubo bengalensis (Franklin, 1831)



WESTERN GHATS REGIONAL CENTRE, KOZHIKODE, KERALA



Soleneura ania
(Walker, 1846)



Limosa lapponica
(Linnaeus 1758)

Scientists of the Centre identified 57 species and 2 subspecies (Hymenoptera 44 species and 2 subspecies), Mantodea (6), Araneae (3), Lepidoptera (3), and Coleoptera (1), from 219 exs. One new species viz., *Andreimyrmecodia pania* Terine, Lelej, and Girish Kumar, 2021 (Hymenoptera: Mutillidae) is published as new to science. Two manuscripts reviewed by the scientists.

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



Caesio xanthonota
Bleeker, 1853

A total of 309 specimens were identified which includes Insects, crabs, Isopods, mollusks, fishes and reptiles belonging to 59 species. Twelve DNA barcodes were uploaded in the NCBI database. Two species *Caesio xanthonota* Bleeker, 1853 & *Ophichthus cephalozona* Bleeker, 1864 were reported for the first time from Odisha coast. A manuscript for *Regional Studies in Marine Science* and one MS for *Thalassass* have been reviewed during this month.



Abortelphusa
namdaphaensis
Mitra, 2020

ARUNACHAL PRADESH REGIONAL CENTRE, ITANAGAR

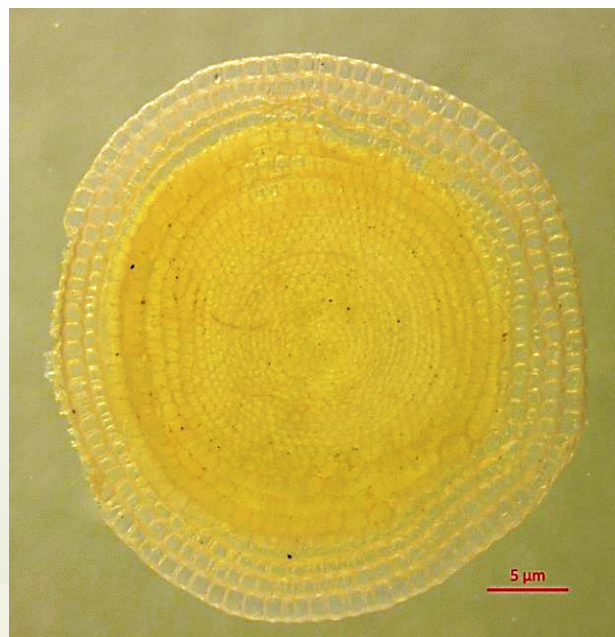


Lepidocephalichthys
annandalei
Chaudhuri, 1912

Scientists of this centre conducted 3 local surveys to Itanagar WLS and Doimukh Circle of Papumpare district and collected 69 examples of 8 groups (14 Diplopoda, 18 Lepidoptera, 4 Orthoptera, 9 Odonata, 7 Decapoda, 5 Mollusca, 5 Pisces, 7 Amphibia). 2 species under 2 genera and 22 examples of Millipedes; 6 species under 6 genera and 11 examples of Coleoptera; 42 species under 36 genera and 70 examples of Lepidoptera; 4 species under 4 genera and 17 examples of Decapoda; 10 species under 9 genera and 67 examples of Pisces, were identified and registered.

MARINE AQUARIUM AND REGIONAL CENTRE, DIGHA, WEST BENGAL

Local surveys were conducted to Digha, Shankarpur, Chandipur, Kasafal, Dagara, Bichitrapur Mangroves, Kadhibil and Tajpur. Scientist of this centre identified 638 specimens and 104 species belonging to 558 ex. of Mollusca (78 spp.), 48 ex. of fishes (17 spp.), 19 ex. of Polychaeta (05 spp.), 02 ex. of Platyhelminthes (01 sp.), 10 ex. of Entoprocta (01 sp.) and 01 ex. of Foraminifera (01 sp.). Evaluated one Ph.D. thesis for PG & Research Department of Advanced Zoology and Biotechnology, Government Arts College for Men, Tamil Nadu and reviewed one manuscript.



| *Cyclocypeus carpenteri* Brady, 1881



| Red Ghost Crab *Oceypode macrocera*
Milne Edwards, 1937

NEW DISCOVERIES AND NEW RECORDS

NEW SPECIES



| *Andreimyrmex paniya* Terine, Lelej and Girish Kumar, 2021



| *Glyptothorax rupiri* Kosygin, Singh and Rath, 2021

NEW RECORDS



| *Caesio xanthonota* Bleeker, 1853

PUBLICATIONS

JOURNALS

1. Ahmad, A. and Gupta, N. 2021. Light and scanning electron microscopy of an ischnoceran louse, *Felicola rohani* and an amblyceran louse, *Heterodoxus spiniger* (Phthiraptera: Insecta) from the Indian grey mongoose, *Herpestes edwardsii*. *Annals of Parasitology*, 67(2): 151-159.
2. Akhilesh, K.V., Rajan, P.T., Vineesh, N., IdreesBabu, K.K., Bineesh, K.K., Muktha, M., Chellappan A., Manjebrayakath, H., Gladston, Y. and Nashad, M. 2021. Checklist of serranid and epinephelid fishes (Perciformes: Serranidae & Epinephelidae) of India. *Journal of the Ocean Science Foundation*, 38: 35-65.
3. Bhaskar, S., Sinha, B., Shabnam, N.A. and Dinesh, K.P. 2021. Additional information on the Giant Himalayan Horned Frog, *Megophrys periosa* Mahony, Kamei, Teeling & Biju, 2018 (Anura: Megophryidae). *Records of the Zoological Survey of India*, 121(2): 219-224.
4. Das, M.N., Kumar, R.R. and Padmanaban, P. 2021. First record of *Pseudamia gelatinosa* Smith, 1956 (Perciformes: Apogonidae) from Gulf of Mannar, Southeast coast of India. *Records of the Zoological Survey of India*, 121(2): 307-309.
5. Girish Kumar, P. 2021. A review of the genus *Nysson* Latreille (Hymenoptera: Crabronidae: Bembicinae: Nissonini) from India. *Records of Zoological Survey of India*, 121(2): 269-277.
6. Gurumaym, S.D. 2021. Ichthyological inventory of Lower Dibang valley, Arunachal Pradesh, India, *J of Fisheries Society of India*, 53(1&2): 51-56.
7. Kamila, A.P., Sureshan, P.M. and Mukherjee, T.K. 2021. First Record of the male of *Ephestiasula woodmasoni* Mukherjee, Stiewe & Ghorai, 2010 (Insecta: Mantodea: Hymenopodidae) from Kerala. *Records of the Zoological Survey of India*, 121(2): 279-282.
8. Kamila, A. P. and Sureshan, P. M. 2021. First report of *Oxyophthalma engaea* (Wood-Mason, 1889) (Insecta: Mantodea: Eremiaphilidae) from Kerala, India. *Entomon*, 46(2): 173-176.
9. Kumar, S., Banyal, H.S. and. Sharma, I. 2021. First record of *Phalaropus lobatus* (Linnaeus, 1758) Red Necked Phalarope (Charadriiformes: Scolopacidae) from Narayan Sarovar Wildlife Sanctuary, Gujarat. *Records of the Zoological Survey of India*, 121(2): 211-214.
10. Kumar, S., Banyal, H. S. and. Sharma, I. 2021. First record of Sind Krait, *Bungarus sindanus* Boulenger, 1897 (Reptilia: Squamata: Elapidae) from Narayan Sarovar Wildlife Sanctuary, Kachchh, Gujarat. *Records of the Zoological Survey of India*, 121(2): 215-218.
11. Mrinal Kumar Das, R. Rajendar Kumar and P. Padmanaban 2021. First record of *Pseudamia gelatinosa* Smith, 1956 (Perciformes: Apogonidae) from Gulf of Mannar, Southeast coast of India. *Records of the Zoological Survey of India*, 121(2): 307-309.
12. Rifat H. Raina, Aejaz H. Parrey, Chandra, K. and Sajad A. Khan 2021. New distributional records of Bumblebees (Hymenoptera: Apidae) from Bangus Valley in North Kashmir of Union territory of Jammu and Kashmir, India. *Records of the Zoological Survey of India*, 121(2): 261-267.
13. Raina, R.H., Babu Sadam, P. Pathak, A.H. Parrey, and Chandra, K. 2021. Mites an emerging problem for Bumblebees in Indian Himalayan region, *Current Science*, 121(4): 581-585.
14. Sainudeen, P. and Palot, M.J. 2021. Mass mortality of Giant Water Bug *Lethocerus indicus* (Lepeletier & Serville, 1825) [Heteroptera: Belostomatidae] in Thiruvananthapuram, Kerala State, South India. *Records of the Zoological Survey of India*, 121(2): 315-317.
15. Sivaleela, G., Surendar, C. and Kumar, R. R. 2021. Free-living marine nematodes in Andhra Pradesh Coast, India. *Records of the Zoological Survey of India*, 121(2), 283-301.
16. Terine, J.B., Lelej, A.S. and Girish Kumar, P. 2021. Discovery of the genus *Andreimyrmex* Lelej, 1995 (Hymenoptera: Mutillidae) in India and description of a new species from the Western Ghats. *Zootaxa* 5020(1): 184-190.
17. Veeramani, A., R. Gayathri, S. Ravichandran, and C. Sivaperuman 2021. Spider's assemblage in the Cauvery Delta Region, Tamil Nadu, India. *Journal of Emerging Technologies and Innovative Research* 8(8): 1-11.
18. Srikanthan, A.N., Adhikari, O.D., Ganesh, S.R., Deuti, K., Das, K., Kulkarni, V.M., Gowande, G.G. and Shanker, K. 2021. A molecular and morphological study of *Otocryptis* Wagler, 1830 (Squamata: Agamidae) reveals a new genus from the far south of the Western Ghats, Peninsular India. *Zootaxa*, 5016(2): 205-228.

19. Kosygin, L., Singh, P. and Rath, S. 2021. A new species of *Glyptothorax* (Teleostei: Sisoridae) from the Brahmaputra River basin, Arunachal Pradesh, India. *Zootaxa*, 5023(2): 239-250.
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20. Longjam, L.R.K., Chandra, K. and Gupta, D. 2021. Catalogue of Indian Alysiinae (Hymenoptera: Braconidae). *Zootaxa*, 5020(1): 81-100.
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21. Kashayap, P., Rizvi, A.N., Bhattacharya, T. and Uniyal, V.P. 2020 (December 2020 issue published in August 2021). Community Structure and Habitat Specific Variations of Soil-Inhabiting Nematodes in the Forests of Gangotri National Park, Uttarakhand, India. *Indian Journal of Nematology*, 50(2): 107- 116.
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22. Thapa, A., Pradhan, P.K., Joshi, B.D., Mukherjee, T., Thakur M., Chandra K., et al. 2021. Non-protected areas demanding equitable conservation strategies as of protected areas in the Central Himalayan region. *PLoS ONE* 16(8): e0255082. <https://doi.org/10.1371/journal.pone.0255082>.
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23. Kumar, G.C., Jyrwa, J.D., Jabin, G., Sharma, L.K., Thakur, M. and Chandra, K. 2021. Ethno-medicinal use of monitor lizard *Varanus bengalensis* (Daudin, 1802) by the 'Adi' tribe at East Siang, Arunachal Pradesh. *Indian Journal of Traditional Knowledge*, 20(3): 749-753.
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24. Kamalakannan, M., C. Venkatraman and Chandra, K. 2021. Predatory attack of weaver ants on the pup of Common Palm Civet. *Bugs R All #201*, In: *Zoo's Print*, 36(8): 08-10.
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25. Kamalakannan, M., K. Deuti & Chandra, K. 2021. Hornet Wasp feeding on the meat of Indian Bullfrog. *Bugs R All #202*, In: *Zoo's Print* 36(8): 11-12.
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26. Kumar, H., Kushwaha, S. and Chand, D.S. 2021. Rediscovery of *Liara* (*Unalianus*) *heteracanthus* (Redtenbacher, 1891) (Orthoptera: Tettigoniidae: Conocephalinae: Agraeciini) from India with notes on its distribution. *Zootaxa*, 5020 (1): 166-170.
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27. Decemson, H.T., Mathipi, V., Vanlalsiammawii., Lalbiakzuala., Sailo. S., and Lalremsanga, H.T. 2021. A new record of the Bangladeshi Cricket frog, *Minervarya asmati* (Howlader, 2011) from Manipur India, with comments on the occurrence of the Paddy Frog, *Fejervarya multistriata* (Hollowell, 1861) (Anura: Dicroglossidae) in Mizoram, India. *Reptiles and Amphibians*, 28(2): 250-254.
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28. Reddy, S.K., Maheswaran, G., Gopi, G.V., Majumder, A., Alam, I., Mondal, H.S., Bhat, B.B., Yongam, D., Yamcha, T., Patgiri, S. and Sahoo, U.K. 2021. Nesting of the White-bellied Heron *Ardea insignis* in Anjaw district, Arunachal Pradesh, India. *Indian Birds*, 17(4): 115-118.
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29. Maheswaran, G., Sharma, L.K., Mondal, H.S., and Mukherjee, T. 2021. White-bellied heron a species on the verge of extinction: Ensemble model reveals loss of habitats and resultant prolonged isolation driving the species to extinction. *Ecological Informatics*, 64: 101383
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30. Mohanty, S.R., L. Patnaik and A. Mohapatra, 2021. *Caesio xanthonota*, a new record of fusilier (Perciformes: Caesionidae) from Odisha coast. *Records of the Zoological Survey of India*, 121(2): 311--313.
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31. Mohanty, S.R., Murmu, L.K., Roy, S. and Mohapatra, A. 2021. First documentation of an Ophichthid eel, *Ophichthus cephalozona* (Anguilliformes; Ophichthidae) from Odisha Coast. *Records of the Zoological Survey of India*, 121(2): 303-305.
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32. Koparde, P., Halali, S., Tiple, A., Ranganekar, P., Sonawane, A., Payra, A., Dawn, P., Raju, A. and Subramanian, K.A. 2021. Lost in Time: Re-description and Ecological Re-assessment of two Indian Endemic *Elattonerua* Cowley, 1935 (Platycnemididae) Damselflies. *International Journal of Odonatology*, 24: 82-94.
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33. Kamalakannan, M. 2021. The Narcondam Shrew discovered. *Sanctuary Asia*, 41 (8): 50-51
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34. Maheswaran, G. 2021. Wallong's white bellies: Surviving at ground zero. *Sanctuary Asia*, 41(8): 58-61.
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MEETINGS ATTENDED

1. Dr. Dhriti Banerjee, Director, ZSI attended the meeting of the DSU for ENVIS scheme and the TORS for DGQI on 9th August 2021.
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2. Dr. Dhriti Banerjee, Director, ZSI organized the Scientific Advisory Committee (SAC) Meeting with G.B. Pant National Institute of Himalayan Environment to discuss the R&D programs in IHR on 24th August 2021.
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3. Dr. Dhriti Banerjee, Director, ZSI attended the meeting on Project "Protection and Sustainable Management of Aquatic Resources in the Northeastern Himalayan Region of India (NERAQ Project)" proposed by GIZ on 25th August, 2021.
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4. Dr. Dhriti Banerjee, Director, ZSI chaired the DNA Barcoding of Museum Specimens meeting on 27th August 2021.
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5. Dr. Dhriti Banerjee, Director, ZSI chaired the 70th Scientific Consultation Committee meeting of ZSI Headquarter and 16th Scientific Consultative Committee meeting of ZSI Regional Centers on 31st August 2021.
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6. Dr. C. Raghunathan, Scientist-E attended the Chhattisgarh State Biodiversity Board Meeting on 17th August 2021 at Raipur, Chhattisgarh
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7. Dr. C. Raghunathan, Scientist-E attended the meeting for Protection and Sustainable Management of Aquatic Resources in the Northeastern Himalayan Region of India (NERAQ Project) organized by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) on 25th August 2021
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8. Dr. C. Raghunathan, Scientist-E attended the 10th meeting of Inter-Ministerial Group on Environmental - Economic Accounting – India (IMG) organized by Ministry of Statistics and Programme Implementation on 27th August 2021.
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9. Dr. K.A. Subramanian, Scientist- E attended meeting with Data Quality Governance Index, Statistics Division, MoEF & CC, New Delhi
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10. Dr. K. A. Subramanian, Scientist- E attended Ph. D public viva-voce as an external examiner to the RTM-Nagpur University, Nagpur
.....
11. Dr. K. A. Subramanian, Scientist- E attended 63rd EC Meeting at National Biodiversity Authority, Chennai
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12. Dr. Gaurav Sharma, Scientist-E participated as External Expert Member for evaluation of CSIR Fellowship upgradation from JRF to SRF organized by the Dean, Wildlife Institute of India, Dehradun through virtual mode on 11th August, 2021.
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13. Dr. Indu Sharma, Scientist-E undergone the online training programme on “Climate Change: Challenges and Response” for Women Scientists from 09-13 August, 2021 at Lal Bahadur Shastri National Academy of Administration, Mussoorie through zoom platform.
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14. Dr. Rajmohana, Scientist-E served as resource person on ‘Isoptera’ on 2nd August 2021, in the online Training Workshop, “Methodology for Collection, Preservation and Curation of Zoological Specimens”, organized by ZSI-HQs., Kolkata.
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15. Dr. Jasmine. P., Scientist-E attended the meeting held on 22/07/2021 of this month for the finalisation of the report of REIA: Great Nicobar development project at Bainsi Prasad Hall, ZSI.
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16. Dr. Pratyush P. Mohapatra, Scientist-D attended an online “Scoping workshop on Guidelines for Crowd Management during HWC Situations” organized by GIZ, Germany and MoEFCC on 24th August 2021 20.
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17. Dr. S. Sambath, Scientist-E attended 21st Madhya Pradesh State Wildlife Board Meeting on 27th August 2021 through video conferencing.
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18. Dr. S. Sambath, Scientist-E attended as external member for the project completion report of a project entitled, “Biodiversity of Satpura Agro-climatic region with special reference to dependencies of Tribals” to the office of the Tropical Forest Research Institute, Jabalpur on 02 August 2021.
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19. Dr Gopal Sharma, Scientist E attended an online “Wetland Review Committee” meeting with Principal Secretary, Dept of Environment Forest and Climate Change, Govt. of Bihar for de-weeding of certain wetlands for developing the landing ground for migratory birds on 11th August 2021.
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20. Dr. Gopal Sharma, Scientist E, attended joint meeting of SEAA and SEAC Bihar at Beltron Bhawan, Patna on 16.08.2021.
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21. Dr. Gopal Sharma, Scientist E, attended a mass awareness campaign in the fisher-folk village for dolphin conservation on 21.08.2021 at Trivenigaht, Fatuha.
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22. Dr. Kamal Saini, Assistant Zoologist attended the 3 days Online Workshop on CII National Public Procurement Conclave 2021 Gem organised by the Ministry of Commerce, Govt. of India from August 9-11, 2021.
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23. Ms. Debashree Dam, Scientist-B attended and participated Animal Welfare program on 14th August 2021 conducted by the West Bengal Veterinary Association at State Animal Health Centre premises, Contai, East Medinipur as an invited guest speaker.
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24. Dr. Bikarmjit Sinha, Scientist-E attended the second meeting of the ABS Expert Committee of the Board on “Access and Benefit Sharing (ABS) Mechanism of Biodiversity use and its Implementation in Meghalaya” on 6th August, 2021.
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25. Dr. R. Aengals, Scientist-E participated in the Pallikaranai Marshland Conservation Authority and their programme implementation committee meeting held at Indian Forest Service Mess Campus (TNFD) Velachery on 03 August 2021.
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LECTURES DELIVERED

1. Dr. Dhriti Banerjee, Director, ZSI delivered a lecture in National Webinar on World Elephant day on 12th August 2021.
2. Dr. C. Raghunathan delivered a lecture on status of biodiversity and importance of collection preservation on the National Webinar on Collection, Preservation and Curation of zoological specimens' organized by ZSI on 2nd to 4th August 2021.
3. Dr. Gaurav Sharma, Scientist-E delivered two invited lectures on "Mammalian diversity and their conservation in India" & "Faunal diversity and their conservation in India".
4. Dr. Deepa Jaiswal, Scientist-E has delivered a lecture on "Freshwater faunal diversity of India in a webinar organized by Zoology department of St. Xavier's College, Palayamkottai, Tamil Nadu on 3rd August 2021.
5. Dr. C. Sivaperuman, Scientist-E attended meeting with Mr. Kulanand Joshi, IAS, Secretary to Hon'ble Lt. Governor & Mr. Muktesh Kumar, OSD to HLG, ANI in connection with the NCRRI land on 26th August 2021.
6. Dr. M. Karuthapandi, Scientist-C delivered a lecture on "Application of DNA Barcode in Taxonomy" organised by Zoology Department of Sri Paramakalyani College, Alwarkurichi, Tamil Nadu on 27th August 2021.
7. Dr. T. Kubendran, Scientist-C delivered a Lecture on "Orientation for Scientist Aspirants" to Higher Secondary Students organized by Department of Biology, Velammal Vidyalaya (Bodhi Campus) Theni-625 516, Tamil Nadu on 07th August, 2021 through Zoom meeting.
8. Ms. Debashree Dam, Scientist-B attended and delivered a virtual lecture on "Role of Marine Aquarium in Marine Biodiversity Conservation" at the Wipro-Earthian-Paryavaran Mitra 2021, Teachers Orientation Workshop on 29th August 2021. This was jointly organized by Balurghat Green School and Paribesh Unnayan Parishad with support from CEE, New Delhi.
9. Dr. K.P. Dinesh, Scientist-D delivered a lecture on 'Diversity and Conservation status of the Amphibians of India' at the National E-Conference on Animal Diversity and Conservation Approach 2021, organized by the B.P. Arts, and S.M.A. Science and K.K.C. Commerce College, Chalisgaon (Jalgaon), Maharashtra on 10th August 2021.
10. Dr. S.S. Talmale, Scientist-B delivered a talk (online) on 'Identification of Mammals through Scat Analysis' for M.Sc. Wildlife Conservation Action students of the Institute of Environment Education and Research, Bharati Vidyapeeth, Pune on 5th August 2021.
11. Dr. Anjum N. Rizvi, Scientist-E delivered Lecture on Helminthes on 2nd August 2021 in the Training webinar on "Methodology of collection, preservation and curation of zoological specimen" from 2nd- 4th August, 2021.
12. Dr. Shelley Acharya, Scientist-E and Dr. Souvik Sen, Scientist-D delivered lecture on Mites and Ticks and spider respectively in the Training webinar on "Methodology of collection, preservation and curation of zoological specimen" from 2nd- 4th August, 2021.
13. Dr. D.S. Suman, Scientist-D delivered an invited talk on World Mosquito Day, 20th August 2021 on "Mosquito Borne Disease and its Prevention" organized by Sri Krishna Science Centre, Ministry of Culture, GOI, Patna, Bihar.
14. Dr. D. Suresh Chand, Scientist-E delivered one lecture on "Training on Methodology for Collection, Preservation and Curation of Zoological Specimens", in ZSI, HQs., on 2nd August, 2021.
15. Dr. Chitra J., Scientist C delivered lecture on "Zooplankton" in the training webinar on "Methodology for collection, preservation and curation of zoological Specimens" from 2nd to 4th August, 2021.
16. Dr. Gopal Sharma, Scientist E, delivered an online lecture on Dolphin Conservation and role of youth, organized by Prayatna (an NGO), Darbhanga, Bihar on 25.08.2021.
17. Dr. Devanshu Gupta, Scientist-C delivered a lecture as Resource Person "Beetle Diversity of India; Gap Areas and Future Aspects" on 8th August, 2021, in the National Webinar on Recent Advances in Biological Research and Environmental Sustainability (RABRES 2020), organized by Department of Zoology, University of Kalyani.

TRAINING

The training webinar on “Methodology for Collection, Preservation and Curation of Zoological Specimens” was organized from 2nd to 4th August, 2021 by ZSI Headquarters.

APPOINTMENT

Dr. Dhriti Banerjee assumed the charge as the Director, Zoological Survey of India with effect from 6th August 2021.

