

Building evidence for conservation globally

Journal of Threatened Taxa



Open Access

10.11609/jott.2024.16.9.25791-25950

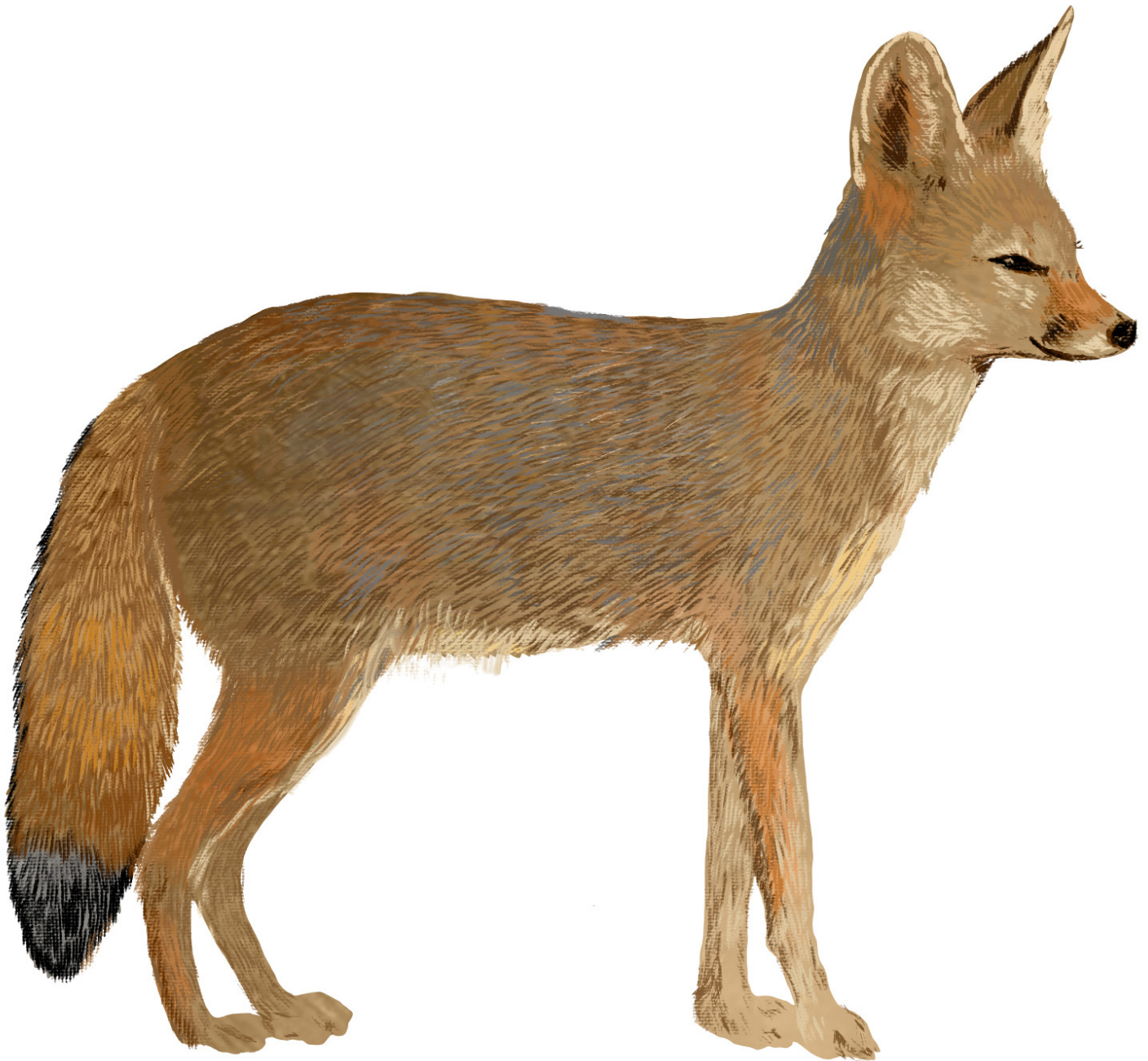
www.threatenedtaxa.org

26 September 2024 (Online & Print)

16(9): 25791-25950

ISSN 0974-7907 (Online)

ISSN 0974-7893 (Print)





ISSN 0974-7907 (Online); ISSN 0974-7893 (Print)

Publisher
Wildlife Information Liaison Development Society
www.wild.zooreach.org

Host
Zoo Outreach Organization
www.zooreach.org

43/2 Varadarajulu Nagar, 5th Street West, Ganapathy, Coimbatore, Tamil Nadu 641006, India
Registered Office: 3A2 Varadarajulu Nagar, FCI Road, Ganapathy, Coimbatore, Tamil Nadu 641006, India
Ph: +91 9385339863 | www.threatenedtaxa.org
Email: sanjay@threatenedtaxa.org

EDITORS

Founder & Chief Editor

Dr. Sanjay Molur

Wildlife Information Liaison Development (WILD) Society & Zoo Outreach Organization (ZOO),
43/2 Varadarajulu Nagar, 5th Street West, Ganapathy, Coimbatore, Tamil Nadu 641006, India

Deputy Chief Editor

Dr. Neelesh Dahanukar

Noida, Uttar Pradesh, India

Managing Editor

Mr. B. Ravichandran, WILD/ZOO, Coimbatore, Tamil Nadu 641006, India

Associate Editors

Dr. Mandar Paingankar, Government Science College Gadchiroli, Maharashtra 442605, India

Dr. Ulrike Streicher, Wildlife Veterinarian, Eugene, Oregon, USA

Ms. Priyanka Iyer, ZOO/WILD, Coimbatore, Tamil Nadu 641006, India

Editorial Board

Dr. Russel Mittermeier

Executive Vice Chair, Conservation International, Arlington, Virginia 22202, USA

Prof. Mewa Singh Ph.D., FASc, FNA, FNASC, FNAPsy

Ramanna Fellow and Life-Long Distinguished Professor, Biopsychology Laboratory, and
Institute of Excellence, University of Mysore, Mysuru, Karnataka 570006, India; Honorary
Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore; and Adjunct
Professor, National Institute of Advanced Studies, Bangalore

Stephen D. Nash

Scientific Illustrator, Conservation International, Dept. of Anatomical Sciences, Health Sciences
Center, T-8, Room 045, Stony Brook University, Stony Brook, NY 11794-8081, USA

Dr. Fred Pluthero

Toronto, Canada

Dr. Priya Davidar

Sigur Nature Trust, Chadapatti, Mavinhalla PO, Nilgiris, Tamil Nadu 643223, India

Dr. John Fellowes

Honorary Assistant Professor, The Kadoorie Institute, 8/F, T.T. Tsui Building, The University of
Hong Kong, Pokfulam Road, Hong Kong

Prof. Dr. Mirco Solé

Universidade Estadual de Santa Cruz, Departamento de Ciências Biológicas, Vice-coordenador
do Programa de Pós-Graduação em Zoologia, Rodovia Ilhéus/Itabuna, Km 16 (45662-000)
Salobrinho, Ilhéus - Bahia - Brasil

Dr. Rajeev Raghavan

Professor of Taxonomy, Kerala University of Fisheries & Ocean Studies, Kochi, Kerala, India

English Editors

Mrs. Mira Bhojwani, Pune, India

Dr. Fred Pluthero, Toronto, Canada

Mr. P. Ilangovan, Chennai, India

Ms. Sindhura Stothra Bhashyam, Hyderabad, India

Web Development

Mrs. Latha G. Ravikumar, ZOO/WILD, Coimbatore, India

Typesetting

Mrs. Radhika, ZOO, Coimbatore, India

Mrs. Geetha, ZOO, Coimbatore India

Fundraising/Communications

Mrs. Payal B. Molur, Coimbatore, India

Subject Editors 2021–2023

Fungi

Dr. B. Shivaraju, Bengaluru, Karnataka, India

Dr. R.K. Verma, Tropical Forest Research Institute, Jabalpur, India

Dr. Vatsavaya S. Raju, Kakatiya University, Warangal, Andhra Pradesh, India

Dr. M. Krishnappa, Jnana Sahyadri, Kuvempu University, Shimoga, Karnataka, India

Dr. K.R. Sridhar, Mangalore University, Mangalagangothri, Mangalore, Karnataka, India

Dr. Gunjan Biswas, Vidyasagar University, Midnapore, West Bengal, India

Dr. Kiran Ramchandra Ranadive, Annasaheb Magar Mahavidyalaya, Maharashtra, India

Plants

Dr. G.P. Sinha, Botanical Survey of India, Allahabad, India

Dr. N.P. Balakrishnan, Ret. Joint Director, BSI, Coimbatore, India

Dr. Shonil Bhagwat, Open University and University of Oxford, UK

Prof. D.J. Bhat, Retd. Professor, Goa University, Goa, India

Dr. Ferdinando Boero, Università del Salento, Lecce, Italy

Dr. Dale R. Calder, Royal Ontario Museum, Toronto, Ontario, Canada

Dr. Cleofas Cervancia, Univ. of Philippines Los Baños College Laguna, Philippines

Dr. F.B. Vincent Florens, University of Mauritius, Mauritius

Dr. Merlin Franco, Curtin University, Malaysia

Dr. V. Irudayaraj, St. Xavier's College, Palayamkottai, Tamil Nadu, India

Dr. B.S. Kholia, Botanical Survey of India, Gangtok, Sikkim, India

Dr. Pankaj Kumar, Department of Plant and Soil Science, Texas Tech University, Lubbock, Texas, USA.

Dr. V. Sampath Kumar, Botanical Survey of India, Howrah, West Bengal, India

Dr. A.J. Solomon Raju, Andhra University, Visakhapatnam, India

Dr. Vijayasankar Raman, University of Mississippi, USA

Dr. B. Ravi Prasad Rao, Sri Krishnadevaraya University, Anantpur, India

Dr. K. Ravikumar, FRLHT, Bengaluru, Karnataka, India

Dr. Aparna Watve, Pune, Maharashtra, India

Dr. Qiang Liu, Xishuangbanna Tropical Botanical Garden, Yunnan, China

Dr. Noor Azhar Mohamed Shazili, Universiti Malaysia Terengganu, Kuala Terengganu, Malaysia

Dr. M.K. Vasudeva Rao, Shiv Ranjani Housing Society, Pune, Maharashtra, India

Prof. A.J. Solomon Raju, Andhra University, Visakhapatnam, India

Dr. Mandar Datar, Agharkar Research Institute, Pune, Maharashtra, India

Dr. M.K. Janarthanam, Goa University, Goa, India

Dr. K. Karthikeyan, Botanical Survey of India, India

Dr. Errol Vela, University of Montpellier, Montpellier, France

Dr. P. Lakshminarasimhan, Botanical Survey of India, Howrah, India

Dr. Larry R. Noblick, Montgomery Botanical Center, Miami, USA

Dr. K. Haridasan, Pallavur, Palakkad District, Kerala, India

Dr. Analinda Manila-Fajard, University of the Philippines Los Baños, Laguna, Philippines

Dr. P.A. Sinu, Central University of Kerala, Kasaragod, Kerala, India

Dr. Afroz Alam, Banasthali Vidyapith (accredited A grade by NAAC), Rajasthan, India

Dr. K.P. Rajesh, Zamorin's Guruvayurappan College, GA College PO, Kozhikode, Kerala, India

Dr. David E. Boufford, Harvard University Herbaria, Cambridge, MA 02138-2020, USA

Dr. Ritesh Kumar Choudhary, Agharkar Research Institute, Pune, Maharashtra, India

Dr. A.G. Pandurangan, Thiruvananthapuram, Kerala, India

Dr. Navendu Page, Wildlife Institute of India, Chandrabani, Dehradun, Uttarakhand, India

Dr. Kannan C.S. Warriar, Institute of Forest Genetics and Tree Breeding, Tamil Nadu, India

Invertebrates

Dr. R.K. Avasthi, Rohtak University, Haryana, India

Dr. D.B. Bastawade, Maharashtra, India

Dr. Partha Pratim Bhattacharjee, Tripura University, Suryamaninagar, India

Dr. Kailash Chandra, Zoological Survey of India, Jabalpur, Madhya Pradesh, India

Dr. Ansie Dippenaar-Schoeman, University of Pretoria, Queenswood, South Africa

Dr. Rory Dow, National Museum of Natural History Naturalis, The Netherlands

Dr. Brian Fisher, California Academy of Sciences, USA

Dr. Richard Gallon, Llandudno, North Wales, LL30 1UP

Dr. Hemant V. Ghate, Modern College, Pune, India

Dr. M. Monwar Hossain, Jahangirnagar University, Dhaka, Bangladesh

Mr. Jatishwor Singh Irungbam, Biology Centre CAS, Branišovská, Czech Republic.

Dr. Ian J. Kitching, Natural History Museum, Cromwell Road, UK

Dr. George Mathew, Kerala Forest Research Institute, Peechi, India

For Focus, Scope, Aims, and Policies, visit https://threatenedtaxa.org/index.php/JoTT/aims_scope
For Article Submission Guidelines, visit <https://threatenedtaxa.org/index.php/JoTT/about/submissions>
For Policies against Scientific Misconduct, visit https://threatenedtaxa.org/index.php/JoTT/policies_various

continued on the back inside cover

Cover: Bengal Fox *Vulpes bengalensis*—digital illustration. © Alagu Raj.



Honey Badgers prefer Eucalyptus plantations to natural habitat types (Kheswa et al. 2018, Allen et al. 2018). Honey Badgers were also reported by researchers in the coastal area of Chilika lagoon, Odisha during a fishing cat survey of the human-dominated landscape (Adhya & Dey 2022). The following studies were reported; it's sightings in different regions of India (Table.1).

A camera trap survey focused on Striped Hyena done in Central Tarai Landscape Nepal documents Honey Badger presence in Sal-dominated Forest (Adhikari et al. 2022). Similarly, a survey done in Bennerghatta National Park, Karnataka, reported the presence of Honey Badger images through camera trapping (Krishnan et al. & 2016). A camera trap survey was conducted to ascertain the presence of tigers and captured the photo of Honey Badger in an opportunistic manner in Simlipal Tiger Reserve (Mishra & Bisht 2023). Here we document the sightings of the Honey Badger from Tarai East forest Division of Uttarakhand.

STUDY AREA

Tarai East Forest Division is a part of the vast Terai Arc Landscape ($28^{\circ}53'24''$ – $31^{\circ}27'50''$ N and $77^{\circ}34'27''$ – $81^{\circ}02'22''$ E) and comprises an area of 82,429.0 ha of Terai and Bhabar tracts between the Gola and Sharada rivers (Figure 1). In the Tarai East Forest Division, the Sal Forest is covering a total of 23,080.12 ha (28%) area of the division. It also connects the Nandhaur Wildlife

Table 1. Review of sightings of Honey Badger in India.

	Location	State	Year of study	Reference
1	Bannerghatta NP	Karnataka	2015	Krishnan et al. (2016)
2	Chilika Lagoon	Odisha	2019	Adhya & Dey (2022)
3	Northern Eastern Ghats	Andhra Pradesh	2019	Aditya et al. (2020)
4	Tadoba-Andhari TR	Maharashtra	2016	Chatterjee et al. (2020)
5	Similipal TR	Odisha	2016	Mishra & Bisht (2023)
6	Cauvery WS	Karnataka	2014	Gubbi et al. (2014)
7	Sariska TR	Rajasthan	2009	Gupta et al. (2012)

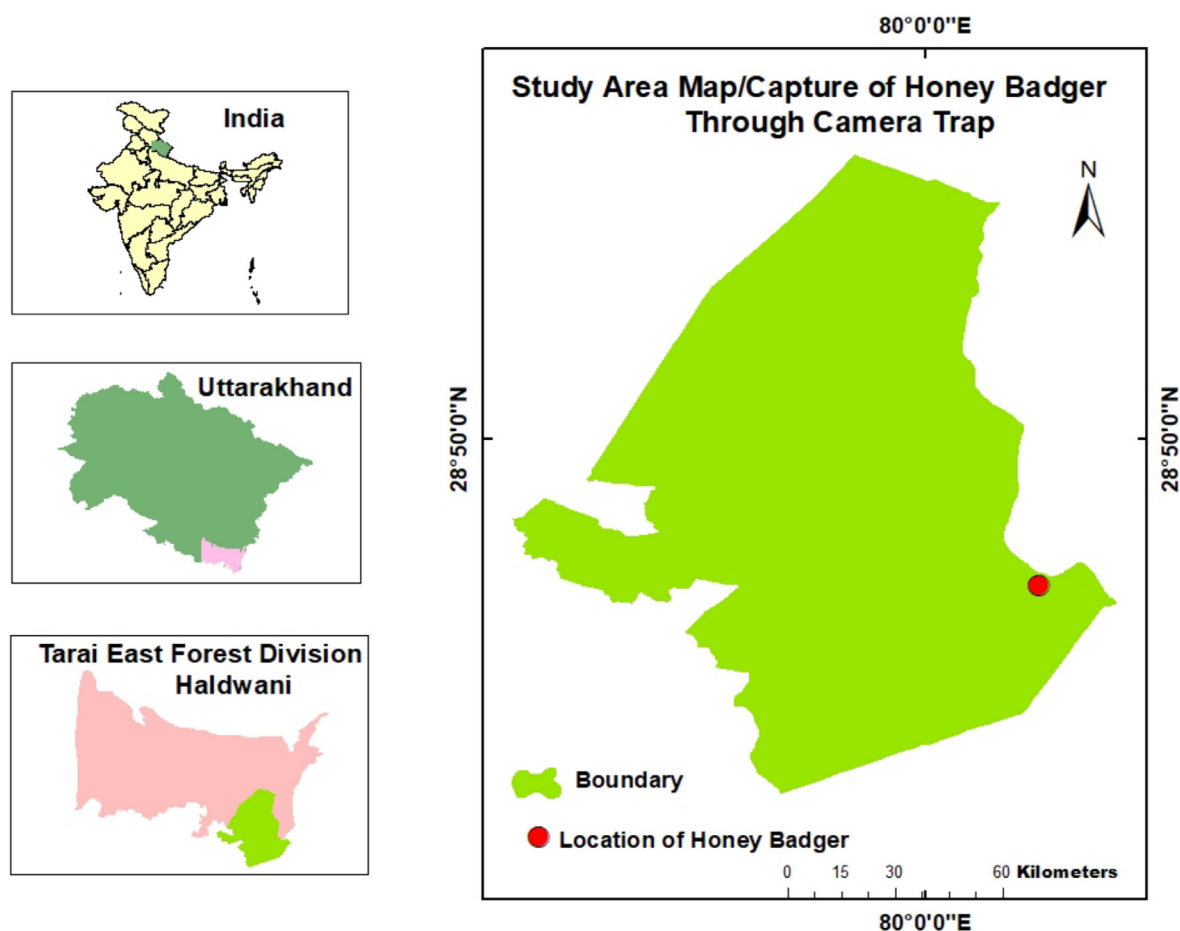


Figure 1. Study Area map showing the location of Honey Badger.

Sanctuary with the Pilibhit Tiger Reserve through the Kilpura-Khatima-Surai corridor. The area is home to very important wildlife species like elephants, tigers, leopards, bears, hyenas, crocodiles etc. Increasing population and dependency on forests, encroachment, overgrazing, poaching etc. are some of the challenges that threaten wildlife and its habitat. The division has covered a total of nine ranges: Kilpura, Khatima, Surai, Gaula, Ransali, Dauli, Barakoli, Kishanpur, and Jaulashal. In this division, Surai range is well known for the presence of 'Royal Bengal Tiger' and a total of 53 individual were reported in Tarai East Forest Division after tiger census (AITE-2022; Qureshi et al. 2023).

RESULTS AND DISCUSSION

As a routine practice under tiger population monitoring, the researchers and staff of the forest department checked the camera trap on 12 January 2024 in which two photos of the camera trap were observed (Image 1 & 2) in Bagha I beat, Surai Range, clicked at 1834 h & 1837 h on 07 January 2024 in the deployed camera trap 13 (CAM 13) which looked like a civet. After matching, the species was identified as a Honey Badger through its morphological characters such as larger size of the skull and mantle color (Menon & Daniel 2003). This is the first photographic evidence of Honey Badger presence in Tarai East Forest Division. This forest division is characterized by Moist Tarai Sal *Shorea robusta* forest (3C/C2C) (Champion & Seth 1968), which provides a rich habitat for Honey Badgers. The age could

not be ascertained, but the sex of the Honey Badger was male as the reproductive organ (penis) is clearly visible in the recorded image. The Pilibhit Tiger Reserve (PTR) and the Sharda canal of the Indo-Nepal border territories encompass the eastern boundary of Tarai East Forest Division (TEFD), providing possible habitat for the Honey Badger. The Honey Badger sightings and movements have been documented numerous times in the Pilibhit Tiger Reserve (PTR) area; being a border area (PTR & TEFD), the Honey Badger's frequent travels have been seen. Camera traps detected its movement for the first time on 07 January 2024, in the TEFD's Surai range. Therefore, it is highly vital to safeguard and conserve their habitats in the area.

REFERENCES

- Adhikari, D., D. Dahal, T. Pun, S. Basnet, S. Dahal & S. Thapa (2022). Record of Honey Badger from Central Terai, Nepal. *Species* 23(71): 69–73.
- Adhya, T. & P. Dey (2022). A coastal population of Honey Badger *Mellivora capensis* at Chilika Lagoon in the Indian east coast. *Journal of Threatened Taxa* 14(10): 22026–22028. <https://doi.org/10.11609/jott.8067.14.10.22026-22028>
- Aditya, V., Y. Pasul & G. Thyagarajan (2020). On the occurrence of Honey Badger *Mellivora capensis* (Mammalia: Carnivora: Mustelidae) in the northern Eastern Ghats of Andhra Pradesh, India. *Journal of Threatened Taxa* 12(5): 15661–15663. <https://doi.org/10.11609/jott.5162.12.5.15661-15663>
- Allen, M.L., B. Peterson & M. Krofel (2018). No respect for apex carnivores: distribution and activity patterns of honey badgers in the Serengeti. *Mammalian Biology* 89: 90–94. <https://doi.org/10.1016/j.mambio.2018.01.001>
- Begg, C.M., K.S. Begg, J.T. Du Toit & M.G.L. Mills (2005).



Image 1. Camera trap photo of Honey Badger recorded in Surai Range, Tarai East Forest Division, Uttarakhand.



Image 2. Camera trap photo of Honey Badger recorded in Surai Range, Tarai East Forest Division, Uttarakhand.

- Spatial organization of the Honey Badger *Mellivora capensis* in the southern Kalahari: home-range size and movement patterns. *Journal of Zoology* 265(1): 23–35. <https://doi.org/10.1017/s0952836904005989>
- Begg, C.M., K.S. Begg, R.J. Power, D. van der Merwe, G. Camacho, C. Cowell & E.D.L. San (2016). A conservation assessment of *Mellivora capensis*, pp. 1–10. In: Child, M.F., L. Roxburgh, E.D.L. San, D. Raimondo & H.T. Davies-Mostert (eds.). *The Red List of Mammals of South Africa, Swaziland and Lesotho*. South African National Biodiversity Institute and Endangered Wildlife Trust, South Africa, xi + 48 pp.
- Champion, H.G. & S.K. Seth (1968). *A Revised Survey of the Forest Types of India*. Manager of Publications, Delhi, 404 pp.
- Chatterjee, N., P. Nigam & B. Habib (2020). Population estimate, habitat-use and activity patterns of the Honey Badger in a dry-deciduous forest of central India. *Frontiers in Ecology and Evolution* 8: 585256. <https://doi.org/10.3389/fevo.2020.585256>
- Gubbi, S., V. Reddy, H. Nagashettihalli, R. Bhat & M.D. Madhusudan (2014). Photographic records of the Ratel *Mellivora capensis* from the southern Indian state of Karnataka. *Small Carnivore Conservation* 50: 42–44.
- Gupta, S., K. Mondal, K. Sankar & Q. Qureshi (2012). Abundance and habitat suitability model for Ratel (*Mellivora capensis*) in Sariska Tiger Reserve, Western India. *Wildlife Biology in Practice* 8(1): 13–22.
- Kheswa, E.Z., T. Ramesh, R. Kalle & C.T. Downs (2018). Habitat use by honey badgers and the influence of predators in iSimangaliso Wetland Park, South Africa. *Mammalian Biology* 90: 22–29. <https://doi.org/10.1016/j.mambio.2018.01.009>
- Krishnan, A., S. Panwar, A. Gayathri, S. Phalke & D.A. Venkateshaiah (2016). A badger in Bannerghatta: an opportunistic record of the Ratel *Mellivora capensis* (Schreber, 1776) (Mammalia: Carnivora: Mustelidae) from Karnataka, India. *Journal of Threatened Taxa* 8(5): 8820–8823. <https://doi.org/10.11609/jott.2587.8.5.8820-8823>
- Kumar, A., G. Sharma & I.A. Khan (2022). An updated checklist of Mammals of Uttarakhand, India. *Records of the Zoological Survey of India* 122(1): 01–16.
- Menon, V. & J.C. Daniel (2003). *Field Guide to Indian Mammals*. Dorling Kindersley, India in association with Penguin Book, India, 200 pp.
- Mishra, S. & H. Bisht (2023). Distribution of Honey Badger (*Mellivora capensis*) in Similipal Tiger Reserve, Odisha, India. *E-planet* 21(1): 56–59.
- Qureshi, Q., Y.V. Jhala, S.P. Yadav & A. Mallick (2023). Status of tigers, co-predators and prey in India, 2022. National Tiger Conservation Authority, Government of India, New Delhi, and Wildlife Institute of India, Dehradun.

Dr. John Noyes, Natural History Museum, London, UK
Dr. Albert G. Orr, Griffith University, Nathan, Australia
Dr. Sameer Padhye, Katholieke Universiteit Leuven, Belgium
Dr. Nancy van der Poorten, Toronto, Canada
Dr. Kareen Schnabel, NIWA, Wellington, New Zealand
Dr. R.M. Sharma, (Retd.) Scientist, Zoological Survey of India, Pune, India
Dr. Manju Siliwal, WILD, Coimbatore, Tamil Nadu, India
Dr. G.P. Sinha, Botanical Survey of India, Allahabad, India
Dr. K.A. Subramanian, Zoological Survey of India, New Alipore, Kolkata, India
Dr. P.M. Sureshan, Zoological Survey of India, Kozhikode, Kerala, India
Dr. R. Varatharajan, Manipur University, Imphal, Manipur, India
Dr. Eduard Vives, Museu de Ciències Naturals de Barcelona, Terrassa, Spain
Dr. James Young, Hong Kong Lepidopterists' Society, Hong Kong
Dr. R. Sundararaj, Institute of Wood Science & Technology, Bengaluru, India
Dr. M. Nithyanandan, Environmental Department, La Ala Al Kuwait Real Estate. Co. K.S.C., Kuwait
Dr. Himender Bharti, Punjabi University, Punjab, India
Mr. Purnendu Roy, London, UK
Dr. Saito Motoki, The Butterfly Society of Japan, Tokyo, Japan
Dr. Sanjay Sondhi, TITLI TRUST, Kalpavriksh, Dehradun, India
Dr. Nguyen Thi Phuong Lien, Vietnam Academy of Science and Technology, Hanoi, Vietnam
Dr. Nitin Kulkarni, Tropical Research Institute, Jabalpur, India
Dr. Robin Wen Jiang Ngiam, National Parks Board, Singapore
Dr. Lionel Monod, Natural History Museum of Geneva, Genève, Switzerland.
Dr. Asheesh Shivam, Nehru Gram Bharti University, Allahabad, India
Dr. Rosana Moreira da Rocha, Universidade Federal do Paraná, Curitiba, Brasil
Dr. Kurt R. Arnold, North Dakota State University, Saxony, Germany
Dr. James M. Carpenter, American Museum of Natural History, New York, USA
Dr. David M. Claborn, Missouri State University, Springfield, USA
Dr. Kareen Schnabel, Marine Biologist, Wellington, New Zealand
Dr. Amazonas Chagas Júnior, Universidade Federal de Mato Grosso, Cuiabá, Brasil
Mr. Monsoon Jyoti Gogoi, Assam University, Silchar, Assam, India
Dr. Heo Chong Chin, Universiti Teknologi MARA (UiTM), Selangor, Malaysia
Dr. R.J. Shiel, University of Adelaide, SA 5005, Australia
Dr. Siddharth Kulkarni, The George Washington University, Washington, USA
Dr. Priyadarsanan Dharma Rajan, ATREE, Bengaluru, India
Dr. Phil Alderslade, CSIRO Marine And Atmospheric Research, Hobart, Australia
Dr. John E.N. Veron, Coral Reef Research, Townsville, Australia
Dr. Daniel Whitmore, State Museum of Natural History Stuttgart, Rosenstein, Germany.
Dr. Yu-Feng Hsu, National Taiwan Normal University, Taipei City, Taiwan
Dr. Keith V. Wolfe, Antioch, California, USA
Dr. Siddharth Kulkarni, The Hormiga Lab, The George Washington University, Washington, D.C., USA
Dr. Tomas Ditrich, Faculty of Education, University of South Bohemia in Ceske Budejovice, Czech Republic
Dr. Mihaly Foldvari, Natural History Museum, University of Oslo, Norway
Dr. V.P. Uniyal, Wildlife Institute of India, Dehradun, Uttarakhand 248001, India
Dr. John T.D. Caleb, Zoological Survey of India, Kolkata, West Bengal, India
Dr. Priyadarsanan Dharma Rajan, Ashoka Trust for Research in Ecology and the Environment (ATREE), Royal Enclave, Bangalore, Karnataka, India

Fishes

Dr. Neelesh Dahanukar, IISER, Pune, Maharashtra, India
Dr. Topiltzin Contreras MacBeath, Universidad Autónoma del estado de Morelos, México
Dr. Heok Hee Ng, National University of Singapore, Science Drive, Singapore
Dr. Rajeev Raghavan, St. Albert's College, Kochi, Kerala, India
Dr. Robert D. Sluka, Chiltern Gateway Project, A Rocha UK, Southall, Middlesex, UK
Dr. E. Vivekanandan, Central Marine Fisheries Research Institute, Chennai, India
Dr. Davor Zanella, University of Zagreb, Zagreb, Croatia
Dr. A. Biju Kumar, University of Kerala, Thiruvananthapuram, Kerala, India
Dr. Akhilesh K.V., ICAR-Central Marine Fisheries Research Institute, Mumbai Research Centre, Mumbai, Maharashtra, India
Dr. J.A. Johnson, Wildlife Institute of India, Dehradun, Uttarakhand, India
Dr. R. Ravinesh, Gujarat Institute of Desert Ecology, Gujarat, India

Amphibians

Dr. Sushil K. Dutta, Indian Institute of Science, Bengaluru, Karnataka, India
Dr. Annemarie Ohler, Muséum national d'Histoire naturelle, Paris, France

Reptiles

Dr. Gernot Vogel, Heidelberg, Germany
Dr. Raju Vyas, Vadodara, Gujarat, India
Dr. Pritpal S. Soorae, Environment Agency, Abu Dubai, UAE.
Prof. Dr. Wayne J. Fuller, Near East University, Mersin, Turkey
Prof. Chandrashekhar U. Rivonker, Goa University, Taleigao Plateau, Goa. India
Dr. S.R. Ganesh, Chennai Snake Park, Chennai, Tamil Nadu, India
Dr. Himansu Sekhar Das, Terrestrial & Marine Biodiversity, Abu Dhabi, UAE

Birds

Dr. Hem Sagar Baral, Charles Sturt University, NSW Australia
Mr. H. Byju, Coimbatore, Tamil Nadu, India
Dr. Chris Bowden, Royal Society for the Protection of Birds, Sandy, UK
Dr. Priya Davidar, Pondicherry University, Kalapet, Puducherry, India
Dr. J.W. Duckworth, IUCN SSC, Bath, UK
Dr. Rajah Jayapal, SAGON, Coimbatore, Tamil Nadu, India
Dr. Rajiv S. Kalsi, M.L.N. College, Yamuna Nagar, Haryana, India
Dr. V. Santharam, Rishi Valley Education Centre, Chittoor Dt., Andhra Pradesh, India
Dr. S. Balachandran, Bombay Natural History Society, Mumbai, India
Mr. J. Praveen, Bengaluru, India
Dr. C. Srinivasulu, Osmania University, Hyderabad, India
Dr. K.S. Gopi Sundar, International Crane Foundation, Baraboo, USA
Dr. Gombobaatar Sunde, Professor of Ornithology, Ulaanbaatar, Mongolia
Prof. Reuven Yosef, International Birding & Research Centre, Eilat, Israel
Dr. Taej Mundkur, Wetlands International, Wageningen, The Netherlands
Dr. Carol Inskipp, Bishop Auckland Co., Durham, UK
Dr. Tim Inskipp, Bishop Auckland Co., Durham, UK
Dr. V. Gokula, National College, Tiruchirappalli, Tamil Nadu, India
Dr. Arkady Lelej, Russian Academy of Sciences, Vladivostok, Russia
Dr. Simon Dowell, Science Director, Chester Zoo, UK
Dr. Mário Gabriel Santiago dos Santos, Universidade de Trás-os-Montes e Alto Douro, Quinta de Prados, Vila Real, Portugal
Dr. Grant Connette, Smithsonian Institution, Royal, VA, USA
Dr. P.A. Azeez, Coimbatore, Tamil Nadu, India

Mammals

Dr. Giovanni Amori, CNR - Institute of Ecosystem Studies, Rome, Italy
Dr. Anwaruddin Chowdhury, Guwahati, India
Dr. David Mallon, Zoological Society of London, UK
Dr. Shomita Mukherjee, SAGON, Coimbatore, Tamil Nadu, India
Dr. Angie Appel, Wild Cat Network, Germany
Dr. P.O. Nameer, Kerala Agricultural University, Thrissur, Kerala, India
Dr. Ian Redmond, UNEP Convention on Migratory Species, Lansdown, UK
Dr. Heidi S. Riddle, Riddle's Elephant and Wildlife Sanctuary, Arkansas, USA
Dr. Karin Schwartz, George Mason University, Fairfax, Virginia.
Dr. Lala A.K. Singh, Bhubaneswar, Orissa, India
Dr. Mewa Singh, Mysore University, Mysore, India
Dr. Paul Racey, University of Exeter, Devon, UK
Dr. Honnavalli N. Kumara, SAGON, Anaikatty P.O., Coimbatore, Tamil Nadu, India
Dr. Nishith Dharaiya, HNG University, Patan, Gujarat, India
Dr. Spartaco Gippoliti, Socio Onorario Società Italiana per la Storia della Fauna "Giuseppe Altobello", Rome, Italy
Dr. Justus Joshua, Green Future Foundation, Tiruchirappalli, Tamil Nadu, India
Dr. H. Raghuram, The American College, Madurai, Tamil Nadu, India
Dr. Paul Bates, Harison Institute, Kent, UK
Dr. Jim Sanderson, Small Wild Cat Conservation Foundation, Hartford, USA
Dr. Dan Challender, University of Kent, Canterbury, UK
Dr. David Mallon, Manchester Metropolitan University, Derbyshire, UK
Dr. Brian L. Cypher, California State University-Stanislaus, Bakersfield, CA
Dr. S.S. Talmale, Zoological Survey of India, Pune, Maharashtra, India
Prof. Karan Bahadur Shah, Budhanilakantha Municipality, Kathmandu, Nepal
Dr. Susan Cheyne, Borneo Nature Foundation International, Palangkaraja, Indonesia
Dr. Hemanta Kafley, Wildlife Sciences, Tarleton State University, Texas, USA

Other Disciplines

Dr. Aniruddha Belsare, Columbia MO 65203, USA (Veterinary)
Dr. Mandar S. Paingankar, University of Pune, Pune, Maharashtra, India (Molecular)
Dr. Jack Tordoff, Critical Ecosystem Partnership Fund, Arlington, USA (Communities)
Dr. Ulrike Streicher, University of Oregon, Eugene, USA (Veterinary)
Dr. Hari Balasubramanian, EcoAdvisors, Nova Scotia, Canada (Communities)
Dr. Rayanna Hellem Santos Bezerra, Universidade Federal de Sergipe, São Cristóvão, Brazil
Dr. Jamie R. Wood, Landcare Research, Canterbury, New Zealand
Dr. Wendy Collinson-Jonker, Endangered Wildlife Trust, Gauteng, South Africa
Dr. Rajeshkumar G. Jani, Anand Agricultural University, Anand, Gujarat, India
Dr. O.N. Tiwari, Senior Scientist, ICAR-Indian Agricultural Research Institute (IARI), New Delhi, India
Dr. L.D. Singla, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, India
Dr. Rupika S. Rajakaruna, University of Peradeniya, Peradeniya, Sri Lanka
Dr. Bahar Baviskar, Wild-CER, Nagpur, Maharashtra 440013, India

Reviewers 2021–2023

Due to pausity of space, the list of reviewers for 2021–2023 is available online.

The opinions expressed by the authors do not reflect the views of the Journal of Threatened Taxa, Wildlife Information Liaison Development Society, Zoo Outreach Organization, or any of the partners. The journal, the publisher, the host, and the partners are not responsible for the accuracy of the political boundaries shown in the maps by the authors.

Print copies of the Journal are available at cost. Write to:
The Managing Editor, JoTT,
c/o Wildlife Information Liaison Development Society,
43/2 Varadarajulu Nagar, 5th Street West, Ganapathy, Coimbatore,
Tamil Nadu 641006, India
ravi@threatenedtaxa.org

Journal of Threatened Taxa is indexed/abstracted in Bibliography of Systematic Mycology, Biological Abstracts, BIOSIS Previews, CAB Abstracts, EBSCO, Google Scholar, Index Copernicus, Index Fungorum, JournalSeek, National Academy of Agricultural Sciences, NewJour, OCLC WorldCat, SCOPUS, Stanford University Libraries, Virtual Library of Biology, Zoological Records.

NAAS rating (India) 5.64



OPEN ACCESS



The Journal of Threatened Taxa (JoTT) is dedicated to building evidence for conservation globally by publishing peer-reviewed articles online every month at a reasonably rapid rate at www.threatenedtaxa.org. All articles published in JoTT are registered under [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/) unless otherwise mentioned. JoTT allows unrestricted use, reproduction, and distribution of articles in any medium by providing adequate credit to the author(s) and the source of publication.

ISSN 0974-7907 (Online) | ISSN 0974-7893 (Print)

September 2024 | Vol. 16 | No. 9 | Pages: 25791–25950

Date of Publication: 26 September 2024 (Online & Print)

DOI: 10.11609/jott.2024.16.9.25791-25950

www.threatenedtaxa.org

Articles

Feeding dynamics of sympatric large carnivores in an anthropogenic landscape of the Indian Terai

– Vivek Ranjan, Syed Ainul Hussain, Ruchi Badola, Gaurav Vashistha & Parag Madhukar Dhakate, Pp. 25791–25801

Avifaunal diversity assessment and conservation significance of Therthangal Bird Sanctuary, Ramanathapuram, Tamil Nadu: insights about breeding waterbirds

– H. Byju, H. Maitreyi, N. Raveendran & Reshmi Vijayan, Pp. 25802–25815

Habitat heterogeneity and taxonomic diversity of fish fauna in estuaries: a study from southern Sri Lanka

– Kiriwithanage Sandun Nalaka Bandara, Pp. 25816–25830

Successful establishment of a coral nursery for active reef restoration in Kavaratti Island, Lakshadweep archipelago

– C.A. Riyas, K.K. Idreesbabu, Rajeev Raghavan & S. Sureshkumar, Pp. 25831–25842

Taxonomic review of genus *Gazalina* Walker (Thaumetopoeinae: Notodontidae: Lepidoptera) from India

– Amritpal Singh Kaleka, Gagan Preet Kour Bali & Navkiran Kaur, Pp. 25843–25855

Diversity and distribution pattern of ebony trees *Diospyros* L. (Ebenaceae) in the forests of central Western Ghats, India

– H.S. Shashwathi & Y.L. Krishnamurthy, Pp. 25856–25871

Tree community structure of selected green patches of Guwahati, Assam, India with special reference to spatio-temporal changes in vegetation

– Maitreyee Goswami, Jijnyasha Bayan, Uma Dutta, Arup Kumar Hazarika & Kuladip Sarma, Pp. 25872–25881

Communications

First record of leucistic Sloth Bear *Melursus ursinus* Shaw, 1791 (Mammalia: Carnivora: Ursidae) in Panna Tiger Reserve, India

– Sankarshan Chaudhuri, Supratim Dutta & K. Ramesh, Pp. 25882–25887

Occurrence and distribution of Indian Pangolin *Manis crassicaudata* (Mammalia: Pholidota: Manidae) in the protected area network of Jammu Shiwaliks, India

– Ajaz Ansari & Neeraj Sharma, Pp. 25888–25893

The first report of an assassin bug of the genus *Ademula* McAtee & Malloch (Reduviidae: Emesinae) from India and its rediscovery from Sri Lanka

– H. Sankararaman, Tharindu Ranasinghe, Anubhav Agarwal, Amila Sumanapala & Hemant V. Ghate, Pp. 25894–25903

Preference and plasticity in selection of host for oviposition in Black Marsh Dart *Onychargia atrocyana* Selys, 1865 (Odonata: Zygoptera: Platycnemididae)

– Pathik K. Jana, Priyanka Halder Mallick & Tanmay Bhattacharya, Pp. 25904–25912

New records of termite species (Blattodea: Rhinotermitidae, Termitidae) from southern India

– A.V. Anushya & P.R. Swaran, Pp. 25913–25919

A study on the association between *Tridax* Daisy *Tridax procumbens* L. and butterflies at Shivaji University Campus, Maharashtra, India

– Aarati Nivasrao Patil & Sunil Madhukar Gaikwad, Pp. 25920–25930

Short Communications

Rare Honey Badger *Mellivora capensis* (Schreber, 1776) sighted in Tarai East Forest Division, Haldwani, Uttarakhand, India

– Prashant Kumar, Bhaskar C. Joshi, Anand Singh Bisht & Himanshu Bagri, Pp. 25931–25934

Additional documentation of the Slender Skimmer *Orthetrum sabina* (Drury, 1770) preying on the Pied Paddy Skimmer *Neurothemis tullia* (Drury, 1773) in Nepal

– Mahamad Sayab Miya & Apeksha Chhetri, Pp. 25935–25938

Notes

First photographic record of the Red Giant Gliding Squirrel *Petaurista petaurista* Pallas, 1766 (Mammalia: Rodentia: Sciuridae) from Sattal, Uttarakhand, India

– Hiranmoy Chetia, Jayant Gupta & Murali Krishna Chatakonda, Pp. 25939–25941

Red Pierrot *Talicauda nyseus nyseus* (Guérin-Meneville, 1843): an addition to the butterfly fauna of Arunachal Pradesh, India

– Roshan Upadhaya, Renu Gogoi, Ruksha Limbu, Manab Jyoti Kalita & Rezina Ahmed, Pp. 25942–25944

Ranunculus cantoniensis DC. (Ranunculaceae): an addition to the flora of West Bengal, India

– Jayantanath Sarkar, Srijan Mukhopadhyay & Biswajit Roy, Pp. 25945–25948

Book Review

Flowers of labour – Commelinaceae of India: Book review

– Rajeev Kumar Singh, Pp. 25949–25950

Publisher & Host



Threatened Taxa