



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

Zoo Outreach Organization www.zooreach.org

Host

No. 12, Thiruvannamalai Nagar, Saravanampatti - Kalapatti Road, Saravanampatti, Coimbatore, Tamil Nadu 641035, 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), 12 Thiruvannamalai Nagar, Saravanampatti, Coimbatore, Tamil Nadu 641035, India

Deputy Chief Editor Dr. Neelesh Dahanukai

Noida, Uttar Pradesh, India

Managing Editor

Mr. B. Ravichandran, WILD/ZOO, Coimbatore, India

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

Dr. Ulrike Streicher, Wildlife Veterinarian, Eugene, Oregon, USA Ms. Privanka Iver. ZOO/WILD. Coimbatore. Tamil Nadu 641035. India Dr. B.A. Daniel, ZOO/WILD, Coimbatore, Tamil Nadu 641035, 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

Dr. Priya Davidar

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

Senior Associate Professor, Battcock Centre for Experimental Astrophysics, Cavendish Laboratory, JJ Thomson Avenue, Cambridge CB3 0HE, UK

Dr. John Fellowes

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

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

Web Development

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

Typesetting

Mr. Arul Jagadish, ZOO, Coimbatore, India Mrs. Radhika, ZOO, Coimbatore, India Mrs. Geetha, ZOO, Coimbatore India

Fundraising/Communications

Mrs. Payal B. Molur, Coimbatore, India

Subject Editors 2018-2020

Fungi

Dr. B. Shivaraju, Bengaluru, Karnataka, India

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

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

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

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

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

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 Ontaro 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, Kadoorie Farm and Botanic Garden Corporation, Hong Kong S.A.R., China

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. Karthigeyan, 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 Banos, 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. Navendu Page, Wildlife Institute of India, Chandrabani, Dehradun, Uttarakhand, India

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 $For Policies \ against \ Scientific \ Misconduct, \ visit \ https://threatened taxa.org/index.php/JoTT/policies_various$

continued on the back inside cover

Caption: Cyrtodactylus myintkyawthurai, endemic to Myanmar. Medium: Water colours on watercolor sheet. © Aakanksha Komanduri

ISSN 0974-7907 (Online) | ISSN 0974-7893 (Print) https://doi.org/10.11609/jott.7849.14.1.20537-20538

#7849 | Received 21 December 2021







Capparis of India

V. Sampath Kumar (D)

BOOK REVIEW

Southern Regional Center, Botanical Survey of India, TNAU Campus, Lawley Road (P.O.), Coimbatore, Tamil Nadu 641003, India. vskumar10@rediffmail.com

The Genus Capparis Tourn. ex L. is distributed almost throughout the old world especially in tropical and subtropical regions with about 140 species. In this book, Maurya et al. concisely presented the Capparis account in India by recognizing 34 species and one subspecies. However, Mastakar et al. (2020), listed 37 taxa (31 species, 5 subspecies and 1 variety) under Capparis in "Flowering Plants of India, An Annotated Checklist (Dicotyledons)", which is mainly based on the work of R.S. Raghavan (1993) in "Flora of India", who recognised only 29 species. The major difference among these works are, Maurya et al. considered the three subspecies of C. acutifolia Sweet as separate species.

The book is handy with 92 pages and easy to use, starts with a very brief introduction, which includes review of literature, the genus distribution in the world and in the Indian subcontinent, table showing its food and medicinal uses of Capparis species and finally materials and methods as well as data presentation in the book. The taxonomic account begins with the key to the sections in the genus and to the species represented in India. Keys to all the four sections are well illustrated with the photographs of the live plants showing diagnostic characters, by which one can easily identify their specimens instantly to the sectional level. The species are arranged section wise, the section Monostichocalyx is represented in India by 30 species out of 34 recognised in this work and the section Capparis by two species and one subspecies, indeed the section Sodada is a monotypic and the remaining one section Busbeckea is represented in India by only one species.

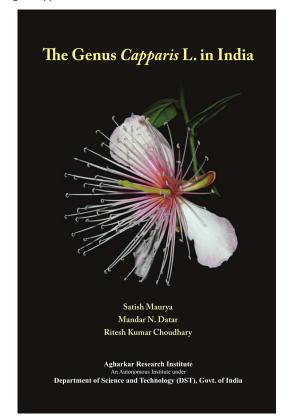
Under each species basionym if present and selected synonyms only are cited, but the descriptions are well written. The diagnostic characters, type, etymology, English/vernacular phenology, common distribution, specimens examined and uses if any were given for each taxon. In fact, in the Tabular form, the Food and Medicinal uses of the 23 taxa (22 species and

ISBN: 978-81-946051-0-2

Authors: Satish Maurya, Mandar N. Datar & Ritesh Kumar

Publisher: MACS-Agharkar Research Institute, Pune, India

Pages: 96pp.



Date of publication: 26 January 2022 (online & print)

Citation: Kumar, V.S (2022). Capparis of India. Journal of Threatened Taxa 14(1): 20537-20538. https://doi.org/10.11609/jott.7849.14.1.20537-20538

Copyright: © Kumar 2022. Creative Commons Attribution 4.0 International License. JoTT allows unrestricted use, reproduction, and distribution of this article in any medium by providing adequate credit to the author(s) and the source of publication.

one subspecies) are well presented in 'Introduction' chapter itself. For most of the species ideally illustrated photo-plates are presented and for some the herbarium specimen's images are reproduced for easy identification. Apart, in each species, a good distribution map is also provided to get a glimpse of the particular species distribution in Indian political boundary.

The key to the species is well prepared with good opposite characters, in which the only one subspecies also added by which the 35 taxa are keyed out in 34 couplets. Since the species are arranged section wise, it would have been better if they would have mentioned species number against each species in the key. For making the book compact, under each species, important synonyms are only cited, which made two-third of them are only with accepted name citations! Actually, the authors should have included more synonyms especially of the names published from the Indian subcontinent. For example, the species *Capparis wallichiana* Wight & Arn. and *C. heyneana* Wall. ex Wight & Arn. described in the "Prodromus Florae Peninsulae Indiae Orientalis" (1834) should have been included.

Although the descriptions are written somewhat in detail, the authors should have maintained the uniformity as far as possible since the number of species represented in India are very less. A glaring mistake to be pointed out here is, in some descriptions the colour of the petal is given under "Flower" while in some in "petal". Similarly, the usage of singular and plural also should have been taken care, e.g. described 'blades', 'petioles' in most species while in some 'blade', 'petiole' are used.

It seems the authors have made good effort in galley proof reading, the book is almost devoid of any spelling

errors. However, they should have noticed *Capparis bodinieri* H.Lév. and *C. acutifolia* ssp. *bodinieri* (A.Lév.) M. Jacobs, and should have used either one of the author standard form for Augustin Abel Hector Léveillé. In the subtitle of *'Capparis* in the Indian Subcontinent' under the "Introduction" chapter, the authors forgot to mention the name Myanmar (Burma), although in the map (Fig. 2) they provided the location of different *Capparis* species distributed in Myanmar. Similarly, they should have detected the error of mentioning 'Endemic' in the distribution of *Capparis brevispina* DC., where it is mentioned as "INDIA: Endemic to Peninsular India ... and SRI LANKA". Further, placing of *Capparis versicolor* Griff. under 'Excluded species' is not properly justified.

At the end, Bibliography and Index are provided. Indeed, it is the shortest and one page index ever produced in a taxonomic account comprising only just more than a 50 names for 35 accepted taxa. Although good number of references are provided in the Bibliography, standard procedure to cite the references are not followed and in some, citations are also wrong. The main purpose of giving reference is to enable the readers to find those literature, but citing them in short form, may not help in anyway.

In overall aspect, the book on *Capparis* in India is a good work, it is an updated version for the work done by the Late R.S. Raghavan, who published this genus account in "Flora of India, volume 2" in 1993. This book should be purchased and kept in the libraries of colleges, universities and research organizations dealing with the Life Science. Hope the authors will take care some of the demerits pointed out above while publishing the revised edition or the molecular phylogenetics of the *Capparis* in India.

ZOOREACH

- 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.,
- 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. Lional 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,
- 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. Unival, 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

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. Chandrashekher 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

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

Birds

- Dr. Hem Sagar Baral, Charles Sturt University, NSW Australia
- 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, SACON, 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 Sundev, 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. M. Zafar-ul Islam, Prince Saud Al Faisal Wildlife Research Center, Taif, Saudi Arabia

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, SACON, 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, SACON, 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, Tiruchirapalli, 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
- 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 2018-2020

Due to pausity of space, the list of reviewers for 2018–2020 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,

ravi@threatenedtaxa.org

c/o Wildlife Information Liaison Development Society,

No. 12, Thiruvannamalai Nagar, Saravanampatti - Kalapatti Road, Saravanampatti, Coimbatore, Tamil Nadu 641035, India





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 unless otherwise mentioned. JoTT allows 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)

January 2022 | Vol. 14 | No. 1 | Pages: 20311–20538 Date of Publication: 26 January 2022 (Online & Print) DOI: 10.11609/jott.2022.14.1.20311-20538

www.threatenedtaxa.org

Articles

Estimating the completeness of orchid checklists and atlases: a case study from southern Italy

- Antonio Croce, Pp. 20311-20322

A floristic survey across three coniferous forests of Kashmir Himalaya, India – a checklist

 Ashaq Ahmad Dar, Akhtar Hussain Malik & Narayanaswamy Parthasarathy, Pp. 20323–20345

Associations of butterflies across different forest types in Uttarakhand, western Himalaya, India: implications for conservation planning

– Arun Pratap Singh, Pp. 20346–20370

Comparison of bird diversity in protected and non-protected wetlands of western lowland of Nepal

– Jagan Nath Adhikari, Janak Raj Khatiwada, Dipendra Adhikari, Suman Sapkota, Bishnu Prasad Bhattarai, Deepak Rijal & Lila Nath Sharma, Pp. 20371–20386

Local hunting practices and perceptions regarding the distribution and ecological role of the Large Flying Fox (Chiroptera: Pteropodidae: *Pteropus vampyrus*) in western Sarawak, Malaysian Borneo

 - Jayasilan Mohd-Azlan, Joon Yee Yong, Nabila Norshuhadah Mohd Hazzrol, Philovenny Pengiran, Arianti Atong & Sheema Abdul Aziz, Pp. 20387–20399

Communications

Pp. 20426-20432

Macrolichens of Mathikettan Shola National Park, Western Ghats: a preliminary investigation with some new records

– Aswathi Anilkumar, Stephen Sequeira, Arun Christy & S.M. Arsha, Pp. 20400–20405

New distribution record of globally threatened Ocean Turf Grass *Halophila beccarii* Ascherson, 1871 from the North Andaman Islands highlights the importance of seagrass exploratory surveys

– Swapnali Gole, Prasad Gaidhani, Srabani Bose, Anant Pande, Jeyaraj Antony Johnson & Kuppusamy Sivakumar, Pp. 20406–20412

An inventory of new orchid (Orchidaceae) records from Kozhikode, Kerala, India – M. Sulaiman, C. Murugan & M.U. Sharief, Pp. 20413–20425

Abundance and spatial distribution analyses of *Stemonoporus moonii* Thwaites (Dipterocarpaceae) - a critically endangered species endemic to Sri Lanka – K.A.M.R.P. Atapattu, H.D.D.C.K. Perera, H.S. Kathriarachchi & A.R. Gunawardena,

Plant diversity of Point Calimere Wildlife Sanctuary and fodder species grazed by the Blackbuck *Antilope cervicapra* L.

Ashutosh Kumar Upadhyay, A. Andrew Emmanuel, Ansa Sarah Varghese & D. Narasimhan, Pp. 20433–20443

Raptors observed (1983–2016) in National Chambal Gharial Sanctuary: semi-arid biogeographic region suggestions for parametric studies on ecological continuity in Khathiar-Gir Ecoregion, India

- L.A.K. Singh, R.K. Sharma & Udayan Rao Pawar, Pp. 20444-20460

Nesting success of Sharpe's Longclaw (Macronyx sharpei Jackson, 1904) around the grasslands of lake Ol'bolossat Nyandarua, Kenya

- Hamisi Ann Risper, Charles M. Warui & Peter Njoroge, Pp. 20461-20468

Population, distribution and diet composition of Smooth-coated Otter *Lutrogale*perspicillata Geoffroy, 1826 in Hosur and Dharmapuri Forest Divisions, India

Nagarian Parkaran Paman Singai Sundarrai & Paucandra attanzillai Capil Pa

 Nagarajan Baskaran, Raman Sivaraj Sundarraj & Raveendranathanpillai Sanil, Pp. 20469–20477

Utilization of home garden crops by primates and current status of human-primate interface at Galigamuwa Divisional Secretariat Division in Kegalle District, Sri Lanka

– Charmalie Anuradhie Dona Nahallage, Dahanakge Ayesha Madushani Dasanayake, Dilan Thisaru Hewamanna & Dissanayakalage Tharaka Harshani Ananda, Pp. 20478–20487

Revival of Eastern Swamp Deer *Rucervus duvaucelii ranjitsinhi* (Groves, 1982) in Manas National Park of Assam, India

Nazrul Islam, Aftab Ahmed, Rathin Barman, Sanatan Deka, Bhaskar Choudhury,
 Prasanta Kumar Saikia & Jyotishman Deka, Pp. 20488–20493

Trypanosoma evansi infection in a captive Indian Wolf Canis lupus pallipes

- molecular diagnosis and therapy

 Manojita Dash, Sarat Kumar Sahu, Santosh Kumar Gupta, Niranjana Sahoo & Debarat Mohapatra, Pp. 20494–20499

View Point

COVID-19 and civil unrest undoing steady gains in karst conservation and herpetological research in Myanmar, and an impediment to progress

– Evan S.H. Quah, Lee L. Grismer, Perry L. Wood, Jr., Aung Lin & Myint Kyaw Thura, Pp. 20500–20502

Short Communications

Morphological characterization and mt DNA barcode of a tiger moth species, *Asota ficus* (Fabricius, 1775) (Lepidoptera: Noctuoidea: Erebidae: Aganainae) from India – Aparna Sureshchandra Kalawate, K.P. Dinesh & A. Shabnam, Pp. 20503–20510

Distribution of Smooth-coated Otters *Lutrogale perspicillata* (Mammalia: Carnivora: Mustelidae): in Ratnagiri, Maharashtra, India

- Swanand Patil & Kranti Yardi, Pp. 20511-20516

Wildlife at the crossroads: wild animal road kills due to vehicular collision on a mountainous highway in northwestern Himalayan region

- Muzaffar A. Kichloo, Asha Sohil & Neeraj Sharma, Pp. 20517-20522

Notes

Robiquetia gracilis (Lindl.) Garay—a new record to the flora of Anamalai Hills, Tamil Nadu, India

 B. Subbaiyan, V. Ganesan, P.R. Nimal Kumar & S. Thangaraj Panneerselvam, Pp. 20523–20525

Ipomoea laxiflora H.J. Chowdhery & Debta (Convolvulaceae): new records for the Western Ghats and semiarid regions

– Sachin M. Patil, Ajit M. Vasava, Vinay M. Raole & Kishore S. Rajput, Pp. 20526–20529

Counting the cost: high demand puts *Bunium persicum* (Boiss.) B.Fedtsch. in jeopardy

– Monika Sharma, Manisha Mathela, Rupali Sharma, Himanshu Bargali, Gurinderjit S. Goraya & Amit Kumar, Pp. 20530–20533

First record of Parasitic Jaeger Stercorarius parasiticus (Aves: Charadriiformes: Stercorariidae) from inland freshwater Inle Lake, Myanmar

 – Sai Sein Lin Oo, Myint Kyaw, L.C.K. Yun, Min Zaw Tun, Yar Zar Lay Naung, Soe Naing Aye & Swen C. Renner, Pp. 20534–20536

Book Review

Capparis of India

- V. Sampath Kumar, Pp. 20537-20538

Publisher & Host

