

CURRENT SCIENCE

Volume 121 Number 2

25 July 2021

400	-		
182	ln	this	issue

GUEST EDITORIAL

183 Fate of Indian Geoheritage and GeoPark Bill D. M. Banerjee

CORRESPONDENCE

Fisheries eco-labelling in India – Marine Stewardship Council clarifications
Louanne Mostert; Response by C. Ramachandran and Shinoj Parappurathu

NEWS

186 Current Science Reports ■ 190 Indian Academy of Sciences, Bengaluru – 32nd Mid-Year Meeting, Arjun R. Krishnan, Pratik Pawar and S. Priya

SCIENTIFIC CORRESPONDENCE

Graphite within carbonaceous phyllite, Mahakoshal Group, Central Indian Tectonic Zone, Patel Vanit Vijaybhai, Prabhat Kumar Sahu and A. K. Talwar

195 Light-weight unmanned aerial vehicle surveys detect dugongs and other globally threatened marine species from the Andaman and Nicobar Islands, India, Sagar Rajpurkar, Anant Pande, Sajal Sharma, Swapnali Gole, Sohini Dudhat, J. A. Johnson and K. Sivakumar

197 Soil matric potential-based irrigation using tensiometer for conserving irrigation water, Rajan Bhatt and Sanjay Arora

GENERAL ARTICLES

- 201 How Theodosius Dobzhansky integrated genetics with evolution B. N. Singh
- 205 A narrative on the fabrication of results in science João Freitas, Dulce Esteves and Henrique Neiva

REVIEW ARTICLES

- 210 Glacier-fed Himalayan rivers of India R. K. Ganjoo
- 214 Project AstroSat: five years of operations and continuing S. Seetha, V. Girish and V. Koteswara Rao

RESEARCH ARTICLES

- Rainfall and temperature projections and their impact assessment using CMIP5 models under different RCP scenarios for the eastern coastal region of India

 S. Vijayakumar, A. K. Nayak, A. P. Ramaraj, C. K. Swain, V. Geethalakshmi, S. Pazhanivelan, Rahul Tripathi and N. S. Sudarmanian
- Seroprevalence of dengue in urban and rural settings in Kerala, India
 Abidha Suresh, K. Vijesh Sreedhar, Jessu Mathew, K. N. Vijayakumar, P. M. Ajithlal,
 Prasanta Saini, N. Pradeep Kumar and Ashwani Kumar
- Ancient high-carbon steel from southern Tamil Nadu, India: microstructural and elemental analysis

Amit Kumar Singh, Alok Kumar Kanungo, V. Selvakumar and Amit Arora

केन्द्रीय पुस्तकार्ग Central सिकिस्म विश्वविद्यालय

CURRENT SCIENCE, VOL. 121, NO. 2, 25 JULY 2021

- Calibrated phasor measurement unit as a reliable metrological tool for national power grid operation in India
 Saood Ahmad, Anish M. Bhargav, Anurag Gupta, V. N. Ojha and D. K. Aswal
- Role of hydrothermal fluids in the deterioration of pictographs and petroglyphs in rock shelters of the Gawilgarh Hills, Madhya Pradesh, India
 Kirtikumar Randive, Prabash Sahu, Sanjeevani Jawadand, Tushar Meshram, Sneha Dandekar, Tejashree Raut, Gunjan Saha, M. L. Dora and Nandini Bhattacharya-Sahu
- 264 Analysis of heat stress in an underground coal mine using computational fluid dynamics
 Navin Prasad and Bindhu Lal
- Quantitative assessment of BIGV and structural response based on velocity and frequency around an opencast mine
 Anand Kumar, Pusker Singh, Sanjay Kumar Sharma, Nawal Kishore and C. S. Singh
- Do conspecific herbivores track resource depletion through host phenology-specific HIPVs?
 P. D. Kamala Jayanthi, Anjana Subramoniam, P. Saravan Kumar, B. R. Jayanthimala and A. Rekha
- Native shade trees aid bird conservation in tea plantations in southern India T. R. Shankar Raman, Chayant Gonsalves, P. Jeganathan and Divya Mudappa
- Black palm squirrel (Funambulus palmarum Linn.) from India: association with a frame shift mutation in the MC1R gene
 R. Dileepkumar, K. Anaswara, V. Navya, S. Beena, A. Jacob, L. Divya, A. S. Vijayasree, V. Deepthi, G. Renganayaki, P. R. Shidhi, M. A. Akbarsha, K. P. Laladhas, Achuthsankar S. Nair, P. R. Sudhakaran and O. V. Oommen

RESEARCH COMMUNICATIONS

- 313 The extinction of experience in a biodiversity hotspot: rural school children's knowledge of animals in the Western Ghats, India
 V. V. Binoy, Anitha Kurup and Sindhu Radhakrishna
- 316 Energy production and its emission generation impact on the environment Guanghui Chang, Du Jianguo, Daniel Adu, Kofi Baah Boamah, Pu tianfeng and Ransford Darko

BOOK REVIEW

323 Elements of Dynamical Systems: Texts and Readings in Mathematics, Vol. 79. Anima Nagar, Riddhi Shah and Shrihari Sridharan (eds); reviewed by Nikita Agarwal

PERSONAL NEWS

325 Chintamani Mande (1925–2021), V. B. Sapre



COVER. Black Indian palm squirrel (Funambulus palmarum Linn.). See page 306.

Indexed in CURRENT CONTENTS/GEOBASE/CHEMICAL ABSTRACTS/IndMED/SCOPUS/WEB OF SCIENCE

