

THE PACIFIC CIRCLE



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PACIFIC CIRCLE NEWS and NOTES

Welcome to our new organizational leadership and thank you to Profs. Warwick Anderson, Zuoyue Wang and Roy MacLeod for their long-term engagement and leadership. Warwick and Roy will be staying on as Council members, while Zuoyue takes a well-deserved break.

Our new Council includes:

President, Prof. Sujit Sivasundaram, Professor of World History, Director, Centre of South Asian Studies, and Fellow in History, Gonville and Caius College, University of Cambridge. Dr. Suvasundaram's research began in the Pacific Ocean before turning towards the Indian Ocean. He has recently published *Waves Across the South: A New History of Revolution and Empire*, an attempt to narrate the story of those two oceans in the "Age of Revolutions." His research engages with the history of science and knowledge, environmental history, the history of race and oceanic history. He is also interested in methodological questions in world history and the history of animals. His most recent paper is a short viewpoint in *Past and Present* on the long origins of Covid-19 told with special attention to the history of indigenous peoples and their knowledges in South Asia. He is undecided on his future research, but expects to return, in intellectual terms, to Sri Lanka.

Vice-President, Prof. Bronwen Douglas, School of Archaeology & Anthropology, ANU. Dr. Douglas has taught Pacific History and written ethnographic histories of New Caledonia and south Vanuatu until the mid-1960s. She has since combined the ethnohistory of encounters in Oceania with the history of the human sciences and the sciences of place. She was co-editor of the *Journal of Pacific History* in 2014-2018. Among Prof. Douglas' publications are *Science, Voyages, and Encounters in Oceania, 1511-1850* (Palgrave Macmillan, 2014); *Collecting in the South Sea: The Voyage of Bruni d'Entrecasteaux 1791-1794* (Sidestone Press, 2018), and *Foreign Bodies: Oceania and the Science of Race 1750-1940* (ANU ePress, 2008).

Vice-President, Prof. Martin Dusinberre, Professor and Chair for Global History, Department of History, University of Zurich. Dr. Dusinberre's research focuses on the history of Japan's engagement with the Pacific world from the mid-19th to the mid-20th-centuries. In the last decade, he has published on the history of transpacific migration, shipping, sugar plantation labor, and Japanese conceptions of the 'Pacific age.' He is currently completing his second monograph, a study of the constitution of "the" archive in an age of global history. He has co-edited special issues of *The Journal of Global History* (2016), *Historische Anthropologie* (2019), and the *Historical Journal* (2021). He has served on the Editorial Board of *Past and Present* since 2020.

Our New Council Members include:

Frances Steel (Otago, New Zealand)

Noelani Arista (University of Hawai'i, USA)

Meifang Zhang (China)
 Seema Alavi (Delhi University, India)
 Ricardo Roque (Institute of Social Sciences, Lisbon, Portugal)
 Hao Chen (China)
 Buhm Soon Park, (KAIST, Republic of Korea)
 Romain Bertrand (Sciences Po, France)
 Evelleen Richards (University of Sydney, Australia)

Ex-Officio Council Members:

Commission on the Historiography of Oceanography:
 Jacob Hamblin (Oregon State University USA)
 Helen Rozwadowski (University of Connecticut, USA)
 Commission on Science and Empire:
 Michael Osborne (Oregon State University, USA)

Congratulations to....

Dr. Sophie Chao, University of Sydney, who was awarded the Duke University Press Scholars of Color First Book award for *In the Shadow of the Palms: More-Than-Human Becomings in West Papua*, to be published in 2022. This book explores how deforestation and monocrop oil palm expansion reconfigure the multispecies lifeworld of Indigenous Marind communities through its effects on the landscape, time, personhood, and dreams.

Dr. Chao also recently published the following:

“We Are (Not) Monkeys: Contested Cosmopolitan Symbols in West Papua,” *American Ethnologist*, <https://doi.org/10.1111/amet.13023>.

“Eating and Being Eaten: The Meanings of Hunger among Marind,” *Medical Anthropology: Cross-Cultural Studies in Health and Illness*, DOI: 10.1080/01459740.2021.1916013.

“Children of the Palms: Growing Plants and Growing People in a Papuan Plantationocene,” *Journal of the Royal Anthropological Institute*, DOI: 10.1111/1467-9655.134898.

“Beetle or the Bug? Multispecies Politics in a West Papua Oil Palm Plantation,” *American Anthropologist*, <https://anthrosource.onlinelibrary.wiley.com/doi/abs/10.1111/aman.13592>.

Dr. Neelakantan Vivek for:

“‘No Nation Can Go Forward When It Is Crippled by Disease:’ Philippine Science and the Cold War, 1946-65,” *Southeast Asian Studies* 10:1 (2021), 53-87.

Prof. Helen M. Rozwadowski for:

Oceans in Three Paradoxes: Knowing the Blue through the Humanities, Virtual Exhibition, Environment and Society Portal, Virtual Exhibitions 2021, No. 2. <http://www.environmentandsociety.org/exhibitions/oceans-three-paradoxes>.

FUTURE MEETINGS, CONFERENCES and CALLS FOR PAPERS

17-20 November 2021. Pacific History Association Biennial Conference, to be held at the University of the South Pacific in Suva, Fiji. The conference theme is “In Their Own Words,” and the meeting sessions will combine face-to-face and online connections. For questions, please visit <https://www.pacifichistoryassociation.net/pha2021>.

18-21 November 2021. History of Science Society annual meeting, to be held jointly with the Society for the History of Technology in New Orleans, LA, USA. Questions regarding the program and accommodations? Please contact info@hassonline.org.

23-26 November 2021. The New Zealand Historical Association Conference, to be held at Massey’s Manawatu Campus, Palmerston North. This year’s theme is “Ako: Learning from History?”

1-4 December 2021. 17th Biennial Conference of the Australian and New Zealand Society of the History of Science, Medicine and Technology (ANZSHM), to be held at the University of Newcastle, Australia, and other local venues. Additional information about the program and venue is available at the ANZSHM website, <https://www.anzshm.org.au> and from Dr. Jan McLeod at jan.mcleod@newcastle.edu.au.

24-27 March 2022. Association for Asian Studies annual meeting in Honolulu, HI, USA. The AAS is looking forward to once again hosting in-person meetings in 2022. Please look for updates at <https://www.asianstudies.org/conference/>.

BOOK, JOURNAL, EXHIBITION and RESEARCH NEWS

Mark Brilliant and **David M. Kennedy**, eds., *World War II and the West it Wrought*, Stanford University Press, 2020, includes at least three chapters of possible interest to Pacific Circle members: **Daniel J. Kevles**, “Enlisting the Laboratories: Science, Defense, and the Transformation of the High-Tech West” (38-73); **Gavin Wright**, “World War II, the Cold War, and the Knowledge Economies of the Pacific Coast” (74-99) and **Mary L. Dudiak**, “How the Pacific World Became West” (161-178).

The Journal of the Royal Society of New Zealand continues its special issue devoted to “The 150th Anniversary of Rutherford’s Birth.” Individual articles will be listed below in our current bibliography section, but that will only include the most recent ones.

The Australian Journal of Zoology 67:6 (2021) is a special issue on “Bat Research in Australasia – In Memory of Les Hall,” Part I. **Brad Law, Justin Welbergen,** and **Paul Cooper** provide an introductory overview of the 11 published papers.

JAHIGEO (The Japanese Association for the History of Geosciences) *Newsletter* No. 23 (May 2021) includes: **Yatsumimi Toshifumi**, “The Lives of Zhang Dingzhao and Okada Ietake, Members of the Department of Chemistry, The Shanghai Science Institute,” pp. 2-7. For more information, please contact **Prof. Michiko Yajima**, Editor at pxi02070@nifty.com.

The editors of *Terrae Incognitae* have called for submissions to their special issue on “Disease and Exploration History,” to be published as volume 55, number 1 in April 2023. They are looking for “innovative approaches to exploration history as the crossroads with disease. Scholars from any discipline are invited to contribute to this interdisciplinary issue.” Proposals should include a 250-word abstract that articulates the aims of the article, why it is innovative, what conclusions it plans to yield, as well as the critical or theoretical frame that will be used, in addition to a 150-word biography sent to hbarnet2@uwo.ca and lbeck@mta.ca by October 1st, 2021. Once accepted, articles will be due by August 1st, 2022. Articles should be no longer than 8,000 words (including notes) and must closely follow the Journal’s style guide.

Routledge Press announces the publication of *The Routledge Handbook of Science and Empire*, edited by **Andrew Goss**, which includes the following chapters:

1. Introduction: an imperial turn in the history of science
Andrew Goss
2. Situating the empire in history of science
Pratik Chakrabarti
3. Cartography and empire from early modernity to postmodernity
Thomas Simpson
4. Racial science
James Poskett
5. Meteorology and empire
Martin Mahony
6. Colonial psychiatry
Matthew M. Heaton
7. Anthropology and empire
Fenneke Sysling
8. Natural history collections and empire
Andreas Weber
9. Non-Western collectors and their contributions to natural history, c. 1750-1940
Jennifer R. Morris

10. Energy and empire
Nathan Kapoor
11. Science, empire, and the old Society of Jesus, 1540-1773
Maria Pia Donato and Sabina Pavone
12. Networks of knowledge in the Indo-Pacific, 1600-1800
Dorit Brixius
13. Between transimperial networking and national antagonism: German scientists in the British Empire during the long nineteenth century
Ulrike Kirchberger
14. Iberian science, Portuguese Empire, and cultures of inquiry in early-modern Europe
Hugh Cagle
15. The dynamic trajectory of French colonialism and science
Michael A. Osborne
16. Another empire: science in the Ottoman lands
Daniel A. Stolz
17. The planting of “colonial” science in Russian soil
Anna Kuxhausen
18. Scientific knowledge in the Qing Empire: engaging with the world, 1644-1911
James Flowers
19. Empire, cultivation, and the environment in Southeast Asia since 1500
Timothy P. Barnard
20. Science and its publics in British India
Charu Singh
21. From history of science to history of knowledge? Themes and perspectives in colonial Australasia
James Beattie and Ruth A. Morgan
22. Empires and science: the case of the sixteenth-century Iberian Empire
Antonio Barrera-Osorio
23. Science in early North America
Cameron B. Strang
24. Science, the United States, and Latin America
Megan Raby
25. Arctic science
Nanna Katrine Lüders Kaaalund
26. Science and decolonisation in UNESCO
Casper Andersen
27. Decolonising science and medicine in Indonesia
Hans Pols



RESEARCH NOTE and QUERIES

Are you interested in history related to oceans? The International Commission for the History of Oceanography (ICHO) is always seeking new members. To learn more about it, visit the website. Membership is free! To become a member, please sign up here:

https://docs.google.com/forms/d/e/1FAIpQLSez4X0xiTO4dkTRVeonlMqP1uSn3V171MwxVUBVHON_WSPxFQ/viewform.

(Please note: A complete list of IUHPST/DHST commissions is available from the Circle editor at perterh@hawaii.edu.)

PACIFIC BIBLIOGRAPHY: SELECT RECENT and FORTHCOMING PUBLICATIONS

BOOKS and BOOK CHAPTERS

The Australian Soil Classification, 3rd edition, by **R.F. Isbell**, CSIRO, 2021.

Ecoagriculture for a Sustainable Food Future, by **Nicole Y. Chalmer**, CSIRO, 2021.

Environmental Offsets, by **Tor Hundloe** and **Shelley Burgin**, eds., CSIRO, 2021.

The Flowering of Australia's Rainforests: Pollination Ecology and Plant Evolution, 2nd edition, by **Geoff Williams**, CSIRO, 2021.

A Natural History of the Hawaiian Islands: Selected Readings III, by **Cynthia L. Hunter**, ed., University of Hawai'i Press, 2020.

Photographic Field Guide to Australian Frogs, by **Mark G. Sanders**, CSIRO, 2021.

Timber and Forestry in Qing China: Sustaining the Market, by **Meng Zhang**, University of Washington Press, 2021.

Voyagers: The Settlement of the Pacific (The Landmark Library/ Kindle Edition), by **Nicholas Thomas**, Apollo, 2021.

ARTICLES and ESSAYS

"Age and Growth of Tiger Shark (*Galeocerdo cuvier*) from Western Australia," by **Sophia M. Emmons**, **Brooke M. D'Alberto**, **Jonathan J. Smart**, and **Colin A. Simpfendorfer**, *Marine & Freshwater Research* 72:7 (2021), 950-963.

"Age-Related Changes in Orbits of Ancient Children from Zaghunluq Cemetery in Xinjiang, China," by **Haijun Li**, **Huimin Chen**, **Letian He**, **Liming**

Liu, Bo Wang, and **Xiaoyong Xiao,** *Human Biology* (2021), https://digitalcommons.wayne.edu/humbiol_preprints/183.

“Alec Chisholm and the Extinction of the Paradise Parrot,” by **Russell McGregor,** *Historical Records of Australian Science* 32:2 (2021), 156-167.

“Anatomical Note on a Tree Snail *Amphidromus (Amphidromus) cambojiensis* (Reeve, 1860) from Vietnam (Eupulmonata: Camenidae),” by **Chirasak Sutcharit, Fred Naggs, Jonathan D. Ablett, Pham Van Sang, Luong Van Hao,** and **Somsak Panha,** *Journal of Natural History* 55:17-18 (2021), 1059-1069.

“Ancient Oral Tradition in Central Java Warns of Volcano-Earthquake Interaction,” by **Valentin R. Troll, Frances M. Deegan,** and **Nadhirah Seraphine,** *Geology Today* 37:3 (2021), 100-109.

“Antares as the Older Brother of Wakea in Pre-Contact Hawaiian Astronomy,” by **Martha Noyes,** *The Journal of Pacific History* 56:2 (2021), 173-184.

“Anuran Assemblage and Its Trophic Relations in Rice-Paddy Fields of South Asia,” by **K.S. Seshadri, Jesudasan Allwin, N.K. Seena,** and **T. Ganesh,** *Journal of Natural History* 54:41-42 (2020), 2745-2762.

“Are Goldfish Spiders Able to Teach Naïve Predators to Avoid Bullet Ants? A Possible Case of Müllerian Mimicry in Spiders and Ants,” by **Robert Perger,** *Journal of Natural History* 55:9-10 (2021), 625-627.

“Aspects of the Historiography of Australian Archaeology,” by **Hilary Howes,** *Historical Records of Australian Science* 32:2 (2021), 125-140.

“Australian Bogong Moths *Agrotis infusa* (Lepidoptera: Noctuidae), 1951-2020: Decline and Crash,” by **Ken Green, Peter Caley, Monika Baker, David Dreyer, Jesse Wallace,** and **Eric Warrant,** *Austral Entomology* 60:1 (2021), 66-81.

“Australian Landscapes from Eocene to Anthropocene,” by **Peter Bridgewater,** *Proceedings of the Royal Society of Victoria* 133:1 (2021), 14-17.

“Banded Charnockite – The Result of Crustal Magma Generation, Piecemeal Emplacement and Fluid-driven Mineral Replacement in High-grade Crust (Central Dronning Maud Land, Antarctica),” by **Ane K. Engvik, Fernando Corfu, Ilka Kleinhanns,** and **Synnøve Elvevold,** *The Journal of Geology* (2021), <https://www.journals.uchicago.edu/doi/10.1086/715789>.

“Birds Respond to Woodland Type, Soil and Mesic Gradients in Heterogeneous Woodlands at Dryandra,” by **Graham R. Fulton** and **John Lawson,** *Australian Journal of Zoology* 68:2 (2021), 55-61.

“Breeding Biology of a High Altitudinal *Aethopyga* Sunbird in Southwestern China,” by **Dan Liang, Yang Liu, Ge Gao,** and **Xu Luo,** *Journal of Natural History* 54:37-38 (2021), 2381-2390.

“*Bundoksia* gen. nov. (Dictyoptera: Blattodea: Blattidae), A New Sexually Dimorphic Cockroach from the Philippines,” by **Cristian C. Lucañas,** *Journal of*

Natural History 55:15-16 (2021), 1009-1020.

“The Business of Biodiversity: The Role of Odonata,” by **Nigel Sharp**, *Proceedings of the Royal Society of Victoria* 133:1 (2021), 32-35.

“Butterflies Australia: A National Citizen Science Database for Monitoring Changes in the Distribution and Abundance of Australian Butterflies,” by **Chris Sanderson, Michael F. Braby**, and **Suzi Bond**, *Austral Entomology* 60:1 (2021), 111-127.

“Butterflies on the Brink: Identifying the Australian Butterflies (Lepidoptera) Most at Risk of Extinction,” by **Hayley M. Geyle, Michael F. Braby**, et al., *Austral Entomology* 60:1 (2021), 98-110.

“Can Extension Programs Improve Grazing Management in Rangelands: A Case Study in Australia’s Great Barrier Reef Catchments,” by **John Rolfe, Megan Star**, and **Adam Curcio**, *The Rangeland Journal* 42:6 (2021), 447-459.

“Can Flexible Timing of Harvest for Translocation Reduce the Impact on Fluctuating Source Populations?” by **Simon J. Verdon, William F. Mitchell**, and **Michael F. Clarke**, *Wildlife Research* 48:5 (2021), 458-469.

“Changes in a Peri-Urban Butterfly Assemblage Over 80 Years Near Melbourne, Australia,” by **Michael F. Braby, Matthew R. Williams, Fabian Douglas, Campbell Beardsell**, and **David F. Crosby**, *Austral Entomology* 60:1 (2021), 27-51.

“Citizen Science and Social Movements: A Case of Participatory Monitoring of Genetically Modified Crops in Japan,” by **Aya H. Kimura**, *The Sociological Review* 69:3 (2021), 580-602.

“Civil War is Associated with Longer Escape Distances among Sri Lankan Birds,” by **Jonathan J. Gnanapragasam, Kasun B. Ekanayake, Kithsiri Ranawana, Matthew R.E. Symonds**, and **Mike Weston**, *The American Naturalist* (2021), <https://doi.org/10.1086/716660>.

“Coextinction of *Pseudococcus markharveyi* (Hemiptera: Pseudococcidae): A Case Study in the Modern Insect Extinction Crisis,” by **Melinda L. Moir**, *Austral Entomology* 60:1 (2021), 89-97.

“Cold Treatment: An Effective Post-Harvest Disinfestation Treatment for *Bactrocera tryoni* (Diptera: Tephritidae) in ‘Gold3’ Kiwifruit,” by **Solomon Balagawi, John Archer, David Cruickshank, Christine Cruickshank**, and **Idris Barchia**, *Austral Entomology* 60:3 (2021), 621-627.

“Community Structure of Epiphytic Bacteria on *Potamogeton pectinatus* and the Surrounding Bacterioplankton in Hongze Lake,” by **Jie Ma, Ruijie Shi, Ruiming Han, Ming Ji, Xiaoguang Xu**, and **Guoxiang Wang**, *Marine & Freshwater Research* 72:7 (2021), 997-1003.

“Comparative Survey Techniques for a Cryptic Australian Snake

(*Hoplocephalus bitorquatus*),” by **Michael B. Shelton** and **Ross L. Goldingay**, *Australian Journal of Zoology* 68:2 (2021), 68-75.

“A Comprehensive Approach to Assessing the Future Persistence of the Endangered Rainforest Tree, *Macadamia jansanii* (Proteaceae) and the Impact of Fire,” by **Glenn Hayward**, **Catherine Nock**, **Yoko Shimizu**, and **Alison Shapcott**, *Australian Journal of Botany* 69:5 (2021), 285-300.

“The Conservation Management of the Green Carpenter Bee *Xylocopa aerata* (Hymenoptera: Apidae) Through Provision of Artificial Nesting Substrate,” by **Katja Hogendoorn**, **Richard V. Glatz**, and **Remko Leijts**, *Austral Entomology* 60:1 (2021), 82-88.

“Conspicuous Genetic Similarity Within a Widely Distributed and Newly Described Species of *Parasesarma* De Man, 1895 from Western Pacific Oceanic Islands, with Notes on the Allied *P. calypso* Group (Crustacea: Brachyura: Sesamididae),” by **Adnan Shahdadi**, **Christoph D. Schubart**, and **Jose Christopher E. Mendoza**, *Invertebrate Systematics* 35:5 (2021), 542-569.

“The Contribution of Pathogenic Soil Microbes to Ring Formation in an Iconic Australian Arid Grass, *Triodia basedowii* (Poaceae),” by **Neil D. Ross** and **Angela T. Moles**, *Australian Journal of Botany* 69:3 (2021), 113-120.

“The Courtship Dance of a Lesser Bird of Paradise Figured in J.E. Gray’s *Illustrations of Indian Zoology* (1830-1835),” by **Ann Datta**, *Archives of Natural History* 48:1 (2021), 89-93.

“Cretaceous Fore Arc Sedimentation and Contemporary Basin Tectonics in Northwestern Borneo: New Sedimentological Insights from Pedawan Formation, Kuching Zone, East Malaysia,” by **Rajat Mazumder**, **Farah Bt. Mohd Anthony**, **Bashil Shung Say Teo**, **Subhajit Roy**, **Armal Al Hajri**, **Tohru Ohta**, **Shuvabrata De**, and **Octavian Catuneanu**, *The Journal of Geology* (2021), <https://doi.org/10.1086/715790>.

“The Crisis of Crisis: Rethinking Epidemics from Hong Kong,” by **Robert Peckham**, *Bulletin of the History of Medicine* 94:4 (2020), 658-669.

“A Culture-Led Approach to Understanding Energy Transitions in China: The Correlative Epistemology,” by **Ping Huang**, **Linda Westman**, and **Vanesa Castán Broto**, *Transactions of the Institute of British Geographers* (2021), <https://doi.org/10.1111/tran.12453>.

“Cutoff Low Over the Southeastern Pacific Ocean: A Case Study,” by **Nelson Quispe-Gutiérrez**, **Vannia Allaga-Nestares**, **Diego Rodríguez-Zimmerman**, **Martí Bonshoms**, et al., *Journal of Southern Hemisphere Earth Systems Science* 71:1 (2021), 17-29.

“Cycad Killer, Qu’est-ce Que c’est? Dieback of *Macrozamia communis* on the South Coast of New South Wales,” by **Keith L. McDougall**, **Penelope J. Gullan**, **Phil Craven**, **Genevieve T. Wright**, and **Lyn G. Cook**, *Australian Journal of*

Botany 69:2 (2021), 102-109.

“Deformation Structures in a Large Slump Horizon, Paleoproterozoic Vempalle Formation, Cuddapah Basin, Southern India,” by **Sayani Khan, Tuasha Majumder, Sarbani Patranabis-Deb, and Dilip Saha**, *The Journal of Geology* 128:6 (2020), 517-534.

“Demographic Stability of the Australian Temperate Exoneurine Bees (Hymenoptera: Apidae) Through the Last Glacial Maximum,” by **Nahid Shokri Bousjein, Michael G. Gardner, and Michael P. Schwarz**, *Austral Entomology* 60:3 (2021), 549-559.

“Description of a New Species of Southeast Asian Reed Snake from Northern Laos (Squamata: Colubridae: Genus *Calamaria* F. Boie, 1827) with a Revised Diagnosis of *Calamaria yunnanensis* Chernov, 1962,” by **Justin L. Lee**, *Journal of Natural History* 55:9-10 (2021), 531-560.

“Description of Two New Species of *Glenea* Newman, 1842 from Southern India and Reinstatement of *Glenea vestalis* Heller, 1934 (Coleoptera: Cerambycidae: Lamiinae: Saperdini),” by **Sangamesh R. Hiremath and Mei-Ying Lin**, *Journal of Natural History* 55:3-4 (2021), 205-245.

“Dimorphism, Polyploidy, and Genetic Diversity in the Australian Endemic *Lycium austral* (Solanaceae),” by **Jill S. Miller, Kimberly Greenberg, Derek Schneider, and Rachel A. Levin**, *International Journal of Plant Sciences* 182:5 (2021), 356-376.

“Direct Development of the Bush Frog *Raorchestes longchuanensis* (Yang and Li 1978) Under Laboratory Conditions in Southern China,” by **Fang Yan, Xiaolong Liu, Yinpeng Zhang, and Zhiyong Yuan**, *Journal of Natural History* 55:1-2 (2021), 125-132.

“The Distribution, Habitat Preference and Population Dynamics of the Pale Field-Rat (*Rattus tunneyi*) at Edel Land, Shark Bay, Western Australia: The Role of Refuges and Refugia in Population Persistence,” by **Sally O’Neill, Jeff Short, and Mike Calver**, *Wildlife Research* 48:5 (2021), 444-457.

“Distribution of *Culicoides* Biting Midges (Diptera: Ceratopogonidae) in Southern Australia and Insight into the *Culicoides victoriae* Morpho-Variants,” by **Peter T. Mee, Peter J. Walker, Andrew R. Weeks, Ary A. Hoffmann, and Jean-Bernard Duchemin**, *Austral Entomology* 60:3 (2021), 525-534.

“Does Assortative Mating Contribute to Reproductive Isolation Among Sympatric Ecotypes of the Wing-Dimorphic Stonefly *Zelandoperla fenestrata* (Plecoptera: Gripopterygidae)?” by **Gracie C. Kroos, Jonathan M. Waters, and Graham A. McCulloch**, *Austral Entomology* 60:3 (2021), 571-577.

“Drought Stress Affects the Germination of Four Co-occurring *Eucalyptus* Species from North-West New South Wales,” by **Nathan J. Emery and Justin C. Collette**, *Australian Journal of Botany* 69:3 (2021), 143-151.

“Dynamics of the Ground Layer Communities of Tropical Eucalypt Woodlands of Northern Queensland,” by **V.J. Neldner** and **D.W. Butler**, *Australian Journal of Botany* 69:2 (2021), 85-101.

“Early Paleozoic Arc Magmatism and Accretionary Orogenesis in the Indochina Block, Southeast Asia,” by **Nguyen Huu Trong**, **Keqing Zong**, **Yongsheng Liu**, **Yu Yuan**, **Pham Trung Hieu**, **Le Tien Dung**, and **Pham Minh**, *The Journal of Geology* 129:1 (2021), 33-48.

“The Earthworm Fauna of Palawan, Philippines with Description of Nineteen New Pheretimid Species (Clitellata: Megascolecidae),” by **Nonillon M. Aspe**, **Rafael Ethan Manasan**, **Albert B. Manlavi**, **Ma. Lotus E. Patiluna**, **Maria Asela B. Sebido**, **Marie Christine M. Obusan**, et al., *Journal of Natural History* 55:11-12 (2021), 733-797.

“Ecology and Conservation of Bats in Temotu Province, Solomon Islands and Torba Province, Vanuatu,” by **Tyron H. Lavery**, **Tanya N. Leary**, **Christina Shaw**, **Martika Tahi**, **Corzzierrah Posala**, and **Ray Pierce**, *Pacific Conservation Biology* 27:1 (2021), 27-38.

“The Effect of Environmental Conditions on Seasonal and Inter-Annual Abundance of Two Species in the Yangtze River Estuary,” by **Richard Kindong**, **Jinhui Chen**, **Libin Dai**, **Chunxia Gao**, **Dongyan Han**, et al., *Marine & Freshwater Research* 72:4 (2021), 493-506.

“Effects of a Native New Zealand Freshwater Mussel on Zooplankton Assemblages, Including Non-Native Daphnia: A Mesocosm Experiment,” by **Ian C. Duggan**, **Anita C. Pearson**, and **Ian A. Kusabs**, *Marine & Freshwater Research* 72:5 (2021), 709-717.

“Environmental Flows Stimulate the Upstream Movement of Juvenile Diadromous Fishes,” by **F. Amtstaetter**, **Z. Tonkin**, **J. O'Connor**, **I. Stuart**, and **W.M. Koster**, *Marine & Freshwater Research* 72:7 (2021), 1019-1026.

“Evidence for Aposematism in a Southern Hemisphere Stonefly Family (Plecoptera: Austroperlidae),” by **Brodie J. Foster**, **Graham A. McCulloch**, and **Jonathan M. Waters**, *Austral Entomology* 60:2 (2021), 267-275.

“Evolution of Rutherford’s Ion Beam Science to Applied Research Activities at GNS Science,” by **John V. Kennedy**, **William Joseph Trompetter**, **Peter P. Murmu**, **Jerome Leveneur**, **Prasanth Gupta**, et al., *Journal of the Royal Society of New Zealand* (2021), <https://doi.org/10.1080/03036758.2021.1897021>.

“Fingerprints of the Kerguelen Mantle Plume in Southern Tibet: Evidence from Early Cretaceous Magmatism in the Tethyan Himalaya,” by **Dongyang Lian**, **Fei Liu**, **Jingsui Yang**, **Zhiqin Xu**, and **Weiwei Wu**, *The Journal of Geology* 129:2 (2021), 207-231.

“First Record of Biological Traits of the Australian Endemic Longfin Pike (*Dinolestes lewini*: Dinolestidae),” by **Charles A. Gray**, *Australian Journal of*

Zoology 68:1 (2021), 40-44.

“First Records of the Genus *Tuponia* Reuter (Hemiptera: Heteroptera: Miridae: Phylinae) from the Korean Peninsula, with Description of a New Species and Notes on Natural History with *Tamarix*,” by **Junggon Kim, Marcos Roca-Cusachs, Bong-Woo Lee, Il-Kwon Kim, and Sunghoon Jung**, *Journal of Natural History* 55:19-20 (2021), 1267-1275.

“First Records of the Introduced African Carder Bee, *Pseudoanthidium* (*Immanthidium*) *repetitum* (Hymenoptera: Megachilidae), in Western Australia,” by **Kit S. Prendergast**, *Pacific Conservation Biology* 27:1 (2021), 39-46.

“First Report of *Cleruchoides* Lin & Huber (Hymenoptera: Mymaridae) from the Oriental Region with Description of a New Species from India,” by **H. Sankararaman, S. Palanivel, S. Manickavasagam, and A. Rameshkumar**, *Journal of Natural History* 55:17-18 (2021), 1161-1167.

“First South American Record of *Winteroxylon*, Eocene of Laguna del Hunco (Chubut, Patagonia, Argentina): New Link to Australasia and Malesia,” by **Mariana Brea, Ari Iglesias, Peter Wilf, Eliana Moya, and Maria A. Gandolfo**, *International Journal of Plant Sciences* 182:3 (2021), 185-197.

“The Fishery Technology Complex: From Mapping to Depletion of Pacific Ocean Perch, 1880s-1970s,” by **Colin Levings**, *Technology and Culture* 62:1 (2021), 185-211.

“Foliar Elemental Microprobe Data and Leaf Anatomical Traits Consistent with Drought Tolerance in *Eucalyptus largiflorens* (Myrtaceae),” by **Denise R. Fernando, Jonathan P. Lynch, Meredith T. Hanlon, and Alan T. Marshall**, *Australian Journal of Botany* 69:4 (2021), 215-224.

“Fossil Dennstaedtiaceae and Hymenophyllaceae from the Early Eocene of the Pacific Northwest,” by **Kathleen B. Pigg, Melanie L. DeVore, David R. Greenwood, Michael A. Sundue, Pedro Schwartsburd, and James F. Basinger**, *International Journal of Plant Sciences* 182:7 (2021), <https://doi.org/10.1086/715633>.

“Four New Species of Parabathynellidae (Bathynellacea, Syncarida) from the Interstitial Environment of the Mekong River,” by **Jong-Geun Park**, *Journal of Natural History* 55:17-18 (2021), 1075-1111.

“Gendering Nineteenth-Century Data: The Women of the Smithsonian Meteorological Project,” by **Sara J. Grossman**, *Journal of Women’s History* 33:1 (2021), 85-109.

“Genetic Structure and New Occurrence Records of the Iconic Tasmanian Mountain Shrimp *Anaspides tasmaniae* (Thomson 1893) (Anaspidesidae: Anaspidea) Reveal Relictual Distribution in Southern Tasmania,” by **Christoph G. Höpel, Shane T. Ah Yong, and Stefan Richter**, *Australian Journal of Zoology* 68:1 (2021), 45-53.

“The Genus *Amorphoscelis* Stål (Mantodea: Amorphoscelidae) from China, with Description of Two New Species and One Newly Recorded Species,” by **Chao Wu** and **Chun-Xiang Liu**, *Journal of Natural History* 55:3-4 (2021), 189-204.

“The Genus *Pectocera* Hope, 1842 (Coleoptera: Elateridae, Oxynopterinae) in China, with Description of Two New Species and One New Record,” by **Zhen Liu** and **Shi-Hong Jiang**, *Journal of Natural History* 55:3-4 (2021), 247-270.

“Gesturing to the Past: The Case for an Ethnography of Melanesian Poetics,” by **Deborah Van Heekeren**, *The Contemporary Pacific* 33:1 (2021), 97-122.

“Global Commodity Chains and Local Use-Value: William Colenso, Natural History Collecting and Indigenous Labour,” by **Megan Kuster**, *Journal of Colonialism and Colonial History* 22:2 (2021), DOI: 10.1353/cch.2021.0021.

“*Gonipterus* (Coleoptera: Curculionidae) in Subtropical Australia: Host Associations and Natural Enemies,” by **Natalia M. Souza**, **Simon A. Lawson**, and **Helen F. Nahrung**, *Austral Entomology* 60:3 (2021), 588-597.

“Grasshopper Country Before and After: A Resurvey of Ken Key’s Collecting Expeditions in New South Wales, Australia, 70 Years On,” by **Michael R. Kearney**, **Md Anwar Hossain**, **Steve J. Sinclair**, and **Hojun Song**, *Austral Entomology* 60:1 (2021), 52-65.

“Hawai‘i as a Laboratory Paradise: Divergent Sociotechnical Island Imaginaries,” by **Mascha Gugganig**, *Science as Culture* 30:3 (2021), 342-366.

“Honey Bees (Hymenoptera: Apidae) Outnumber Native Bees in Tasmanian Apple Orchard: Perspectives for Balancing Crop Production and Native Bee Conservation,” by **Kit S. Prendergast**, **Nicolas Leclercq**, and **Nicolas J. Vereecken**, *Austral Entomology* 60:2 (2021), 422-435.

“Identification of a Novel Hybrid Zone within the Black-Footed Rock-Wallaby (*Petrogale literalis*) in Western Australia,” by **Mark D.B. Eldridge**, **David J. Pearson**, and **Sally Potter**, *Australian Journal of Zoology* 68:2 (2021), 98-107.

“The Impact of Ebony Wood Harvesting on *Diospyros samoensis* (Ebenaceae) on Vangunu Island, Western Solomon Islands,” by **Ramokasa Anisi**, **Alyse de Souza**, **Gilianne Brodie**, **Randy Thaman**, **Stefan Peters**, **Laurence W. Jessop**, and **Gunnar Keppel**, *Pacific Conservation Biology* 27:2 (2021), 177-185.

“Implications of Water Quality Policy on Land Use: A Case Study of the Approach in New Zealand,” by **R.W. McDowell**, **P. Pletnyakov**, **A. Lim**, and **G. Salmon**, *Marine & Freshwater Research* 72:4 (2021), 451-455.

“Incorporating Indigenous Knowledge in Mine Closure: Ranger Uranium Mine,” by **Christopher Brady**, **Peter Christophersen**, and **Justin O’Brien**, *Proceedings of the Royal Society of Victoria* 133:1 (2021), 18-22.

“Integrative Taxonomy Reveals Multiple Lineages of the Spider Genus *Cybaeus* Endemic to the Ryukyu Islands, Japan (Arachnida: Araneae: Cybaeidae),”

by **Yoh Ihara**, **Naoki Koike**, and **Takafumi Nakano**, *Invertebrate Systematics* 35:2 (2021), 216-243.

“Intense East Coast Lows and Associated Rainfall in Eastern Australia,” by **Acacia Pepler** and **Andrew Dowdy**, *Journal of Southern Hemisphere Earth Systems Science* 71:1 (2021), 110-122.

“Interdecadal Modulation of the Effect of ENSO on Rainfall in the Southwestern Pacific,” by **Tony Weir**, **Ravind Kumar**, and **Arona Ngari**, *Journal of Southern Hemisphere Earth Systems Science* 71:1 (2021), 53-65.

“Investigating the Relationships Between Soil Acidity and Phosphorus Fractions in High Country Farmland of New Zealand’s South Island,” by **Daniel L. Hendrie**, **Jim L. Moir**, **Gustavo Boitt**, **Zachary P. Simpson**, and **Leo M. Condrón**, *Soil Research* 59:5 (2021), 463-471.

“Investigation of Two Native Australian Perennial Forage Legumes for their Potential Use in Agriculture: *Indigofera australis* subsp. *hesperia* and *Glycyrrhiza acanthocarpa*,” by **R. Snowball**, **H.C. Norman**, and **M.F. D’Antuono**, *Crop and Pasture Science* 72:4 (2021), 311-323.

“Japan’s Contribution to Peace, Prosperity & Sustainability: Energy Transitions in the Indo-Pacific Region*,” by **Parul Bakshi**, *The Pacific Review* 34:5 (2021), <https://doi.org/10.1080/09512748.2021.1955950>.

“John Gooden and the Birmingham Proton Synchrotron,” by **Brett A. Gooden**, *Historical Records of Australian Science* 32:2 (2021), 141-155.

“Lack of Reliable Post-Fire Recovery Mechanisms Makes the Iconic Tasmanian Conifer *Athrotaxis cupressoides* Susceptible to Population Decline,” by **Aimee Bliss**, **Lynda D. Prior**, and **David M.J.S. Bowman**, *Australian Journal of Botany* 69:3 (2021), 162-173.

“Learning from the Earthquake Nation: Japanese Science Diplomacy in the Twentieth Century,” by **Julia Mariko Jacoby**, *Journal of Contemporary History* 56:3 (2021), 485-501.

“Leichhardt’s Ethnobotany for the Eucalypts of South-East Queensland,” by **Roderick J. Fensham**, *Australian Journal of Botany* 69:4 (2021), 185-214.

“Let’s Catch Octopus for Dinner: Ancient Inventions of Octopus Lures in the Mariana Islands of the Remote Tropical Pacific,” by **Mike T. Carson** and **Hsiao-Chun Hung**, *World Archaeology* 52:4 (2021), <https://doi.org/10.1080/00438243.2021.1930134>.

“Life History of Two Data-Poor but Commercially Valuable Tropical Reef Fishes, *Parupeneus barberinus* and *Mulloidichthys flavolineatus*, from the Saipan Fishery, Northern Marian Islands,” by **Erin M. Reed** and **Brett M. Taylor**, *Marine & Freshwater Research* 72:3 (2021), 383-397.

“Life Stages of the non-Native *Ommatoiulus moreleti* (Lucas, 1860) (Julida,

Julidae) in Australian Small Grain Systems,” by **Thomas Heddle, Paul A. Umina, Maarten van Helden, Lamyaa Alhwash, Xuan Cheng**, et al., *Agricultural and Forest Entomology* (2021), <https://doi.org/10.1111/afe.12444>.

“Linking Social and Biophysical Systems to Inform Long-Term, Strategic Management of Coral Reefs,” by **Micheli D.P. Costa, Russell Gorddard, Pedro Fidelman**, et al., *Pacific Conservation Biology* 27:2 (2020), 126-132.

“*Liuomelita mollipalma*, a New Genus and Species of Melitidae Amphipoda: Hadzioidea) from Hydrothermal Vents of the Okinawa Trough, North-West Pacific,” by **Wang Yanrong, Chaodong Zhu, Zhongli Sha**, and **Xianqiu Ren**, *Journal of Natural History* 55:19-20 (2021), 1299-1310.

“Long-Lived Life History for Onaga *Etelis coruscans* in the Hawaiian Islands,” by **Allen H. Andrews, Jon Brodziak, Edward E. DeMartini**, and **Eric Cruz**, *Marine & Freshwater Research* 72:6 (2021), 848-859.

“*Lycaugea Edieae* gen. et Sp. Nov., A Late Devonian Lycopsid from New South Wales, Australia,” by **Brigitte Meyer-Berthaud, Anne-Laure Decombeix**, and **Romain Blanchard**, *International Journal of Plant Sciences* 182:6 (2021), 418-429.

“Making Sense of Serodiscordance: Pathways and Aftermaths of HIV Testing Among Couples with Mixed HIV Status in Papua New Guinea,” by **Asha Persson, Angela Kelly-Hanku, Agnes Mek, Elke Mitchell, Richard Nake Trumb, Heather Worth**, et al., *The Asia Pacific Journal of Anthropology* 22:4 (2021), 298-314.

“Marine and Coastal Ecosystem-Based Adaptation in Asia and Oceania: Review of Approaches and Integration with Marine Spatial Planning,” by **Alyssa L. Giffin, Christopher J. Brown, Johanna Nalau, Brendan G. Mackey**, and **Rod M. Connolly**, *Pacific Conservation Biology*, 27:2 (2020), 104-117.

“Market-Based Commons: Social Agroforestry, Fire Mitigation Strategies and Green Supply Chains in Indonesia’s Peatlands,” by **Michelle Ann Miller**, *Transactions of the Institute of British Geographers* (2021), <https://doi.org/10.1111/tran.12472>.

“Mesozoic Unroofing History of the Dabie Orogen, Eastern China: Evidence from Detrital Zircon Geochronology of Sediments in the Hefei Basin,” by **Yongsheng Wang, Qiao Bai, Ziqiang Tian**, and **Hui Du**, *The Journal of Geology* 129:2 (2021), 183-206.

“Method for Estimating Inoculum of the Soilborne Fungal Pathogen *Verticillium dahliae* in Australian Cotton Soils,” by **S. Young, K. Kirkby, S. Roser**, and **S. Harden**, *Crop & Pasture Science* 72:2 (2021), 146-154.

“Migratory Pattern and Larval Duration of an Amphidromous Goby (*Rhinogobius nagoyae*) at Sado Island, in Northern Japan,” by **Midori Iida, Kyoka Kido**, and **Kotaro Shirai**, *Marine & Freshwater Research* 72:8 (2021), 1243-1249.

“Minimising Mortalities in Capturing Wildlife: Refinement of Helicopter

Darting of Chital Deer (*Axis axis*) in Australia,” by **Jordan O. Hampton, Matthew Amos, Anthony Pople, Michael Brennan, and David M. Forsyth**, *Wildlife Research* 48:4 (2021), 304-313.

“Modeling the Impact of Canker Disease and Fire Regimes on the Population Dynamics and Extinction Risk of the Critically Endangered and Granite Endemic Shrub *Banksia verticillata* R. Br.,” by **C.J. Yates, S. Barrett, M. Dilly, S.D. Hopper, B. Stewart**, et al., *Australian Journal of Botany* 69:5 (2021), 274-284.

“Molecular Systematics and Biogeography of an Australian Soil-Burrowing Cockroach with Polymorphic Males, *Geoscapheus dilatatus* (Blattodea: Blaberidae),” by **Perry G. Beasley-Hall, Harley A. Rose, Thomas Bourguignon, and Nathan Lo**, *Austral Entomology* 60:2 (2021), 317-329.

“Molecular Systematics and Diversification of a Taxonomically Unstable Group of Asian Cicada Tribes Related to Cicadini Latreille, 1802 (Hemiptera: Cicadidae),” by **Kathy B.R. Hill, David C. Marshall, Kiran Marathe, Maxwell S. Moulds, Young June Lee**, et al., *Invertebrate Systematics* 35:5 (2021), 570-601.

“Monitoring the Behaviour of Australian Vertosols in Response to the Shrink-Swell Characteristic and Cotton Picker Traffic,” by **Mohammed A.M. Al-Shatib, Guangnan Chen, John McL. Bennett, and Troy A. Jensen**, *Soil Research* 59:4 (2021), 396-405.

“The More the Merrier: Using Environmental Flows to Improve Floodplain Vegetation Condition,” by **Cherie Joy Campbell, Fiona Linda Freestone, Richard P. Duncan, Will Higginson, and Sascha Jade Healy**, *Marine & Freshwater Research* 72:8 (2021), 1185-1195.

“Morphological and Genetic Characterisation of the Introduced Copepod *Lernaea cyprinacea* Linnaeus (Cyclopoida: Lernaeidae) Occurring in the Murrumbidgee Catchment, Australia,” by **Xiaocheng Zhu, Diane P. Barton, Skye Wassens, and Shokoofeh Shamsi**, *Marine & Freshwater Research* 72:6 (2021), 876-886.

“Multiple Trans-Torres Strait Colonisations by Tree Frogs in the *Litoria caerulea* Group, with the Description of a New Species from New Guinea,” by **Paul M. Oliver, Eric N. Rittmeyer, Janne Torkkola, Stephen C. Donnellan, Chris Dahl, and Stephen J. Richards**, *Australian Journal of Zoology* 68:1 (2021), 25-39.

“Na Compound Fertiliser Improves Growth Performance, Drought Resistance, and Water-Saving Efficiency of the Succulent Xerophyte *Haloxylon ammodendron* in the Alxa Desert Region of China,” by **Jian-jun Kang, Jian-long Yu, Jin-lin Zhang, Jian-hua Xu, and Suo-min Wang**, *Australian Journal of Botany* 69:5 (2021), 318-327.

“A New ⁴⁰Ar/³⁹Ar Analysis Method of Volcanoclastic Strata to Determine Eruption Periods – Example of Xintaimen, China,” by **Xin Zhou, Ji Jianqing, Zhou Jing, Zhang Yining, Yungchen Lhamo, Quan Wuxun, and Tu Jiyao**, *The Journal of Geology* 129:1 (2021), 63-76.

“A New Peltospirid Snail (Gastropoda: Neomphalida) Adds to the Unique

Biodiversity of Longqi Vent Field, Southwest Indian Ridge,” by **Chong Chen, Yuru Han, Jonathan T. Copley, and Yadong Zhou**, *Journal of Natural History* 55:13-14 (2021), 851-866.

“A New Potentially Endangered Species of *Megophrys* (Amphibia: Megophryidae) from Mount Ky Quan San, North-West Vietnam,” by **Benjamin Tapley, Timothy Cutajar, Luan Thanh Nguyen, Christopher Portway, Stephen Mahony, Chung Thanh Nguyen**, et al., *Journal of Natural History* 54:39-40 (2021), 2543-2575.

“New Records of a Non-Indigenous *Branchiomma* and *Parasabella* Species (Sabellidae: Annelida) in South Australia Highlight the Continuing Challenges for Sabellid Taxonomy,” by **Aria L. Lee, Maria Capa, Katherine A. Dafforn, Pat A. Hutchings and Anna Murray**, *Journal of Natural History* 54:39-40 (2021), 2647-2673.

“A New Species and New Synonym of *Amphinemura* (Plecoptera: Nemouridae) from Zhejiang Province of China,” by **Meng-Yuan Zhao and Yu-Zhou Du**, *Journal of Natural History* 55:11-12 (2021), 699-711.

“A New Species of *Cyrtodactylus* Gray, 1827 (Squamata: Gekkonidae) from Western Yunnan, China,” by **Shuo Liu and Dingqi Rao**, *Journal of Natural History* 55:11-12 (2021), 713-731.

“New Sr-Nd Isotope Data Record Juvenile and Ancient Crust-Mantle Melt Interactions in the Vijayan Complex, Sri Lanka,” by **Sanjeewa P.K. Malaviarachchi, M. Satish-Kumar, and Toshiro Takahashi**, *The Journal of Geology* 129:2 (2021), 233-253.

“No Room to Move: Bat Response to Rainforest Expansion into Long-Unburnt Eucalypt Forest,” by **Andrew G. Baker, Claudia Catterall, Kirsten Benkendorff, and Bradley Law**, *Pacific Conservation Biology* 27:1 (2020), 13-26.

“Noble Savages: Human-Independent *Rattus* Rats in Japan,” by **Vladimir Dinets and Keishu Asada**, *Journal of Natural History* 54:37-38 (2020), 2391-2414.

“Notes on the Genus *Nigrimacula* Shi, Bian & Zhou, 2016 (Tettigoniidae: Meconematinae: Meconematini) from Yunnan, China with Two New Species,” by **Peng Cui, Qing Liu, and Fu-Ming Shi**, *Journal of Natural History* 55:15-16 (2021), 969-977.

“‘Now it’s not a Billabong:’ Eco-Cultural Assessment of Billabong Condition in Remote Northern Australia,” by **Shaina Russell, Emilie Ens, and Ngukurr Yangbala Rangers**, *Marine & Freshwater Research* 72:7 (2021), 925-941.

“Observations of Brown Band Disease in the Gulf of Mannar, India,” by **M. Selva Bharath, K. Diraviya Raj, Greta S. Aeby, and J.K. Patterson Edward**, *Marine & Freshwater Research* 72:5 (2021), 732-737.

“On the Accuracy of Soil Survey in Queensland, Australia,” by **Andrew J.W. Biggs, Mark Crawford, Kaitlyn Andrews, Mark Sugars, Dan Smith, and**

Warwick Brown, *Soil Research* 59:4 (2021), 359-372.

“On the Taxonomic Validity of Indian Ground Spiders: IV. Genera *Apodrassodes* Vellard, 1924, *Herpyllus* Hentz, 1832 and *Sergiolus* Simon, 1892 (Araneae: Gnaphosidae),” by **Pradeep M. Sankaran, John T.D. Caleb, and Pothalil A. Sebastian**, *Journal of Natural History* 54:43-44 (2021), 2839-2857.

“An Overview of the History, Current Contributions and Future Outlook of iNaturalist in Australia,” by **Thomas Mesaglio and Corey T. Callaghan**, *Wildlife Research* 48:4 (2021), 289-303.

“*Pandanus grayorum* (Pandanaceae), a New Species Endemic to North-Eastern Queensland (Australia),” by **Martin W. Callmander, Sven Buerki, Frank A. Zich, Ashley R. Field, and Timothy Gallaher**, *Australian Systematic Botany* 34:4 (2021), 327-335.

“Patterns of Resource Use by Asiatic Black Bear *Ursus thibetanus* During Pre-Hibernation in Kashmir Himalaya, India,” by **Farah Bashir, Monalisa Nawab, Bashir Ahmad Ganai, and Tawqir Bashir**, *Journal of Natural History* 54:37-38 (2020), 2455-2469.

“Petrogenesis of the Taishanmiao A-Type Granite in the Eastern Qinling Orogenic Belt: Implications for Late Cretaceous Tectonic Transition and Mineralization,” by **Jun He, Yue Qi, Xin Fan, and Fukun Chen**, *The Journal of Geology* 129:1 (2021), 97-114.

“Phenology and Litter Production in the Mangrove Genus *Xylocarpus* Along Rainfall and Temperature Gradients in Tropical Australia,” by **Alistar I. Robertson, Paul Dixon, and Irena Zagorskis**, *Marine & Freshwater Research* 72:4 (2020), 551-562.

“Phenotypic Variation in Adults of *Chilo partellus* (Swinhoe) from Diverse Ecological Regions of India,” by **Mukesh K. Dhillon, Aditya K. Tanwar, Fazil Hasan, and Amarpal S. Bhadauriya**, *Acta Zoologica* 102:3 (2021), <https://doi.org/10.1111/azo.12377>.

“A Phylogenetic Assessment of *Pronoprymna* spp. (Digenea: Faustulidae) and Pacific and Antarctic Representatives of the Genus *Steringophorus* Odhner, 1905 (Digenea: Fellodistomidae), with Description of a New Species,” by **S.G. Sokolov, S.V. Shchenkov, and I.I. Gordeev**, *Journal of Natural History* 55:13-14 (2021), 867-887.

“Phylogenetic Position of the Poorly Known Montane Cascade Frog *Amolops monticola* (Ranidae) and Description of a New Closely Related Species from Northeast India,” by **Naitik G. Patel, Sonali Garg, Abhijit Das, Bryan L. Stuart, and S.D. Biju**, *Journal of Natural History* 55:21-22 (2021), 1403-1440.

“Phylogenetic Relationships and Systematics of the Jumping Spider Genus *Colopsus* with the Description of Eight New Species from Sri Lanka (Araneae: Salticidae),” by **Nilani Kanesharatnam and Suresh P. Benjamin**, *Journal of Natural History* 54:43-44 (2020), 2763-2814.

“Phylogeographic Patterns of the Australian Grass Trees (*Xanthorrhoea* Asphodelaceae) Shown Using Targeted Amplicon Sequencing,” by **Todd G.B. McLay, Pauline Y. Ladiges, Stephen R. Doyle, and Michael J. Bayly**, *Australian Systematic Botany* 34:2 (2021), 206-225.

“*Pinus leptokrempfii*, an Oligocene Relative of the Flat-Needled Pine *PINUS krempfii* (Pinaceae) from China: Implications for Paleogeographic Origin,” by **Jian-Wei Zhang, Li Wang, Ashalata D’Rozario, Xiao-Qing Liang, Jian Huang, and Zhe-Kun Zhou**, *International Journal of Plant Sciences* 182:5 (2021), 389-400.

“Plastic Possibilities: Contrasting the Uses of Plastic ‘Waste’ in India,” by **Tridibesh Dey and Mike Michael**, *Anthropology Today* 37:3 (2021), 11-15.

“Population Declines and the Conservation of Insects and Other Terrestrial Invertebrates in Australia (Symposium Overview),” by **Michael F. Braby, David K. Yeates, and Gary S. Taylor**, *Austral Entomology* 60:1 (2021), 3-8.

“Population Genetics, Demographics and Implications for Conservation of *Brachychiton* sp. Ormeau, a Critically Endangered Rainforest Tree,” by **R. Roberts, R.W. Lamont, C.L. Simmons, G. Leiper, G.P. Guymmer, and A. Shapcott**, *Australian Journal of Botany* 69:5 (2021), 259-273.

“Potential Distribution of *Schistocerca gregaria gregaria* in Southwestern Asia,” by **Gengping Zhu, Yongliang Men, and Xinrao Han**, *Agricultural and Forest Entomology* 23:3 (2021), 388-391.

“Pre-Emptive Host-Specificity Testing of *Trissolcus japonicus* (Ashmead) (Hymenoptera: Scelionidae) Reveals High Parasitism Levels Against the Endemic New Zealand Alpine Shield Bug in Laboratory No-Choice Tests,” by **Thomas E. Saunders, Gonzalo A. Avila, and Gregory I. Holwell**, *Austral Entomology* 60:2 (2021), 411-421.

“Prediction of the Potential Global Distribution of Asian Longhorned Beetle *Anoplophora glabripennis* (Coleoptera: Cerambycidae) under Climate Change,” by **Yuting Zhou, Xuezhen Ge, Ya Zou, Siwei Guo, Tao Wang, and Shixiang Zong**, *Agricultural and Forest Entomology* (2021), <https://doi.org/10.1111/afe.12461>.

“Productivity of Diverse Forage Brassica Genotypes Exceeds that of Oats Across Multiple Environments within Australia’s Mixed Farming Zone,” by **Lucinda J. Watt, Lindsay W. Bell, Brett D. Cocks, Anthony D. Swan, Rebecca S. Stutz, Andrew Toovey, and Joanne De Faveri**, *Crop & Pasture Science* 72:5 (2021), 393-406.

“Proterozoic HT–LP Metamorphism in the Mahakoshal Belt, Central Indian Tectonic Zone (India): Structure, Metamorphism, U–Th–Pb Monazite Geochronology and Tectonic Implications,” by **Tanzil Deshmukh, N. Prabhakar, and A. Bhattacharya**, *The Journal of Geology* 129:2 (2021), <https://doi.org/10.1086/715791>.

“Rapid Colonisation, Breeding and Successful Recruitment of Eastern Barn Owls (*Tyto alba delicatula*) Using a Customised Wooden Nest Box in Remnant Mallee Cropping Areas of Southern Yorke Peninsula, South Australia,” by **Kelly M.**

Meaney, David E. Peacock, David Taggart, and James Smith, *Wildlife Research* 48:4 (2021), 334-344.

“A Record of Diatom Community Response to Catchment Land-Use Change in Moreton Bay, Australia,” by **Jack Coates-Marnane, Sarah Pausina, Joanne Burton, Deborah Haynes, Fred Oudyn, and Jon Olley**, *Marine & Freshwater Research* 72:6 (2021), 823-837.

“Recurrent Coral Bleaching in North-Western Australia and Associated Declines in Coral Cover,” by **R.C. Babcock**, et al., *Marine & Freshwater Research* 72:5 (2021), 620-632.

“Redefining Southern Australia’s Climatic Regions and Seasons,” by **Sonya Fiddes, Acacia Pepler, Kate Saunders, and Pandora Hope**, *Journal of Southern Hemisphere Earth Systems Science* 71:1 (2021), 92-109.

“Refining China’s Grassland Policies: An Interdisciplinary and Ex-Ante Analysis,” by **Colin Brown, Karl Behrendt, Li Ping, Qiao Guanghua**, et al., *The Rangeland Journal* 42:6 (2021), 435-445.

“The Reinvention of an Appropriate Tradition or the Colonial Birth of Vietnamese Medicine,” by **Laurence Monnais**, *Osiris* 36 (2021), 113-131.

“The Relationships Between Land Use and Amphibian Assemblages in a Traditional Agricultural Area, the Sun Moon Lake, Taiwan,” by **Chau-Ren Jung and Sheng-Hai Wu**, *Wildlife Research* 48:2 (2021), 181-192.

“Reptiles on the Brink: Identifying the Australian Terrestrial Snake and Lizard Species Most at Risk of Extinction,” by **Hayley M. Geyle, Reid Tingley, Andrew P. Amey, Hal Cogger**, et al., *Pacific Conservation Biology* 27:1 (2021), 3-12.

“The Response to Environmental Flows of a Culturally Significant Flood-Dependent Species: *Centipeda cunninghamii* (Asteraceae),” by **William Higginson, Tanya M. Doody, Cherie Campbell, and Fiona J. Dyer**, *Marine & Freshwater Research* 72:7 (2021), 1086-1091.

“Revalidation of the Australasian Genus *Microsandalus* Stål stat. rev., with Redescription of *M. umbrosus* Stål (Hemiptera: Reduviidae),” by **Yingqi Liu, Valérie A. Lemaître, and Wanzhi Cai**, *Austral Entomology* 60:3 (2021), 505-513.

“A Review of *Coptocheilus* Gould, 1862 from China, with Description of a New Species (Gastropoda: Caenogastropoda: Pupinidae),” by **Zhe-Yu Chen**, *Journal of Natural History* 54:41-42 (2021), 2703-2712.

“A Revision of *Epeorus* (*Proepeorus*) in China, with Descriptions of Two New Species (Ephemeroptera, Heptageniidae),” by **Zhen-Xing Ma, Zhi-Ming Lei, Wen-Juan Li, and Chang-Fa Zhou**, *Journal of Natural History* 55:17-18 (2021), 1131-1159.

“Roles of Roadside Vegetation in Insect Conservation in Australia,” by **Timothy R. New, Don P.A. Sands, and Gary S. Taylor**, *Austral Entomology* 60:1 (2021), 128-137.

“Rutherford and the Cavendish Laboratory,” by **Malcolm Longair**, *Journal of the Royal Society of New Zealand*, Special Issue on “The 150th Anniversary of Rutherford’s Birth,” 51:(2021), <https://doi.org/10.1080/03036758.2021.1885452>.

“Rutherford and Russian Physics: The Critical Influence of the Human Factor,” by **Olga Suvorova**, *Journal of the Royal Society of New Zealand*, Special Issue on “The 150th Anniversary of Rutherford’s Birth,” 51:3 (2021), <https://doi.org/10.1080/03036758.2021.1885452>.

“Rutherford’s Early Life and Work in New Zealand,” by **John Campbell**, *Journal of the Royal Society of New Zealand*, Special Issue on the “150th Anniversary of Rutherford’s Birth,” 51:3 (2021), <https://doi.org/10.1080/03036758.2021.1915805>.

“Saltwater Crocodile (*Crocodylus porosus*) Attacks in East Nusa Tenggara, Indonesia,” by **Brandon Sideleau, Tamen Sitorus, Dadang Suryana, and Adam Britton**, *Marine & Freshwater Research* 72:7 (2021), 978-986.

“The Scientists and the Shrub: Manzanar’s Guayule Project and Incarcerated Japanese American Scientists,” by **Jonathan van Harmelen**, *Southern California Quarterly* 103:1 (2021), 61-98.

“Seasonal Climate Summary for Australia and the Southern Hemisphere (Summer 2018-19): Extreme Heat and Flooding Prominent,” by **Ben S. Hague**, *Journal of Southern Hemisphere Earth Systems Science* 71:1 (2021), 147-158.

“Seasonal Diets of Asiatic Black Bear (*Ursus thibetanus*) in the Khangchendzonga National Park, Eastern Himalaya India,” by **Rakesh Basnett, Awadhesh Kumar, Anurag Vishwakarma, and Barin Kumar Boro**, *Journal of Natural History* 55:3-4 (2021), 163-175.

“Seasonal Movements and Metapopulation Structure of the Australian Fairy Tern in Western Australia,” by **James N. Dunlop and Claire N. Greenwell**, *Pacific Conservation Biology* 27:1 (2021), 47-60.

“Sedimentary System of Ash Deposits from Long-Term Vulcanian Activity at Sakurajima Volcano, Japan,” by **Takahiro Miwa and Futoshi Nanayama**, *The Journal of Geology* 129:2 (2021), 171-182.

“Sensing the Acoustics of a New Guinea Rainforest,” by **Borut Telban**, *The Asia Pacific Journal of Anthropology* 22:2-3 (2021), 252-254.

“Severe Convection-Related Winds in Australia and their Associated Environments,” by **Andrew Brown and Andrew Dowdy**, *Journal of Southern Hemisphere Earth Systems Science* 71:1 (2021), 30-52.

“Sexual Assault and the Evidential Body: Forensic Medicine and Law in Modern Japan,” by **Susan L. Burns**, *Osiris* 36 (2021), 163-180.

“The Shanghai Museum and the Introduction of Taxidermy and Habitat Dioramas into China, 1874-1952,” by **Li-chuan Tai**, *Archives of Natural History* 48:1 (2021), 111-130.

“Shelf-Oceanic Dynamics of Surface Environmental Parameters in the Kangaroo Island – Bonney Coast Region,” by **Dahlia Foo, Clive R. McMahon, Mark A. Hindell,** and **Simon D. Goldsworthy,** *Marine & Freshwater Research* 72:5 (2021), 679-692.

“Shifting Baselines and Political Expediency in New Zealand’s Freshwater Management,” by **M.K. Joy** and **A.D. Canning,** *Marine & Freshwater Research* 72:4 (2021), 456-461.

“A Short Scan of Māori Journeys to Antarctica,” by **Priscilla M. Wehi, Nigel J. Scott, Jacinta Beckwith, Rata Pryor Rodgers, Tasman Gillies, Vincent Van Uitregt,** and **Krushil Watene,** *Journal of the Royal Society of New Zealand* 51 (2021), <https://doi.org/10.1080/03036758.2021.1917633>.

“Silver Gull Harassment of Humpback Whales in Exmouth Gulf, Western Australia,” by **Philippa Harkness** and **Kate R. Sprogis,** *Marine & Freshwater Research* 72:4 (2021), 584-592.

“The Size of the Helium Nucleus: Then and Now,” by **Maarten D. Hoogerland,** *Journal of the Royal Society of New Zealand, Special Issue: The 150th Birthday of Rutherford’s Birth* 51 (2021), 1-10.

“Source Competition Controls the Petrogenesis of Jurassic-Cretaceous Adakitic Volcanic Rocks in the Central North China Craton,” by **Liang Zhou, Yuping Su, Jianping Zheng, Qiang Ma, Jian Wang, Xiahu Zhang,** and **Xiao Bian,** *The Journal of Geology* 129:2 (2021).

“Source of Detritus in Subducted Turbidites, Tectonic Mélange, Port Macquarie Block, Southern New England Orogen, Australia – A Geochemical Perspective,” by **Robin Offler** and **Ron Goyd,** *The Journal of Geology* 129:1 (2021), 49-62.

“Spatial Epidemiology of *Toxoplasma gondii* Seroprevalence in Sentinel Feral Chickens (*Gallus gallus*) in Kaua‘i, Hawai‘i,” by **Kayleigh Chalkowski, Kathryn Fiedler, William G. Lucey, Sarah Zohdy,** and **Christopher A. Lepczyk,** *Pacific Conservation Biology* 27:2 (2020), 170-176.

“Spatiotemporal Variability of Soil Organic Carbon for Different Topographic and Land Use Types in a Gully Watershed on the Chinese Loess Plateau,” by **Fan Yang, Xiaorong Wei, Mingbin Huang, Chenhui Li, Xiofang Zhao,** and **Zhongdian Zhang,** *Soil Research* 59:4 (2021), 383-395.

“The Species of the *Varius* Group of *Coccophagus* (Hymenoptera: Aphelinidae) from China, with a Description of a New Species, DNA Sequence Data, and a New Country Record,” by **Zhu Hong Wang, Li Yue Xu, Yu Si, Jian Huang, Stefan Schmidt, Andrew Polaszek,** and **Hui Geng,** *Journal of Natural History* 54:29-30 (2020), 1879-1896.

“Stock Structure of Pacific Cod (*Gadus macrocephalus*) Around the Korean Peninsula: An Otolith Microchemical Perspective,” by **Kali R. Stone, Craig R. Kastle, Irina M. Benson, Thomas E. Helser, Jonathan A. Short,** and **Sukyung**

Kang, *Marine & Freshwater Research* 72:6 (2021), 774-786.

“Stratigraphy, Depositional Setting, and SHRIMP U-Pb Geochronology of the Banded Iron Formation – Bearing Bailadila Group in the Bachelu Iron Ore Mining District, Bastar Craton, India,” by **Joydip Mukhopadhyay**, **Richard A. Armstrong**, **Jens Gutzmer**, **Michiel De Cock**, and **Nicolas J. Beukes**, *The Journal of Geology* 129:1 (2021), 115-130.

“Subaltern Surgeries: Colonial Law and the Regulation of Traditional Medicines in the British Raj and Beyond,” by **Projit Bihari Mukharji**, *Osiris* 36 (2021), 89-112.

“Survival of Immature *Helicoverpa punctigera* (Wallengren) (Lepidoptera: Noctuidae) on Some C4 and C3 Plants,” by **Samuel A. Bawa**, **Peter C. Gregg**, **Alice P. Del Socorro**, **Cara Miller**, and **Nigel R. Andrew**, *Austral Entomology* (2021), <https://doi.org/10.1111/aen.12563>.

“Sustainability of Nutrient Management in Grain Production Systems of South-West Australia,” by **Martin Harries**, **Ken C. Flower**, and **Craig A. Scanlan**, *Crop and Pasture Science* 72:3 (2021), 197-212.

“Systematics and Convergent Evolution in Three Australian Genera of Pepsinae Spider Wasps (Hymenoptera: Pompilidae),” by **Akira Shimizu**, **James P. Pitts**, **Juanita Rodriguez**, **Raymond Wahis**, and **Jin Yoshimura**, *Austral Entomology* 60:2 (2021), 301-316.

“Systematics of the Australian Golden Trapdoor Spiders of the *Euoplos variabilis*-group (Mygalomorphae: Idiopidae: Euoplini): Parapatry and Sympatry Between Closely Related Species in Sub-Tropical Queensland,” by **Jeremy D. Wilson** and **Michael G. Rix**, *Invertebrate Systematics* 35:5 (2021), 514-541.

“*Tainiasoma* gen. nov. (Coleoptera: Salpingidae), a New Genus from the Australo-Pacific Region Inhabiting Palm Fronds with Description of the Australian Species *Tainiasoma palmarum* sp. nov. and its Larva,” by **John F. Lawrence**, **Adam Slipinski**, and **Hermes E. Escalona**, *Austral Entomology* 60:2 (2021), 285-294.

“‘A Talented Young German:’ Exploration of the Early Career of Jacob Braché,” by **Gabrielle L. McMullen**, *Proceedings of the Royal Society of Victoria* 133:1 (2021), 39-55.

“Taxonomic Review of the Genus *Scaphoideus* Uhler (Hemiptera: Auchenorrhyncha: Cicadellidae: Deltocephalinae) from Korea, with Description of One New Species,” by **Eunji Kim** and **Sunghoon Jung**, *Journal of Natural History* 54:47-48 (2020), 3059-3073.

“Taxonomic Revision of Five Species Groups of Ebracteate-Erect *Myosotis* (Boraginaceae) Endemic to New Zealand, Based on Morphology, and Description of New Subspecies,” by **Heidi M. Meudt**, *Australian Systematic Botany* 34:3 (2021), 252-304.

“Corrigendum to: A Taxonomic Revision of the Australasian Genera

Dracophyllum and *Richea* (Richeeae: Styphelioideae: Ericaceae),” by **Stephanus Venter**, *Australian Systematic Botany* 34:1-2 (2021), 1-205 and 226.

“Taxonomic Revision of a Radiation of South-East Asian Freshwater Mussels (Unionidae: Gonideinae: Contradentini+Rectidentini),” by **John M. Pfeiffer, Daniel L. Graf, Kevin S. Cummings, and Lawrence M. Page**, *Invertebrate Systematics* 35:4 (2021), 394-470.

“Taxonomic Revision of *Riccia* (Ricciaceae, Marchantiophyta) in the Monsoon Tropics of the Northern Territory, Australia,” by **D. Christine Cargill, Karen Beckmann, and Rod Seppelt**, *Australian Systematic Botany* 34:4 (2021), 336-430.

“Technologies of Cold War Diplomacy: Transforming Postwar Japan,” by **Jessamyn R. Abel**, *Technology and Culture* 62:1 (2021), 128-155.

“‘This Mountain is It’: How Hawai‘i’s Mauna Kea was ‘Discovered’ for Astronomy (1959-79),” by **Pascal Marichalar**, *The Journal of Pacific History* 56:2 (2021), 119-143.

“A Threatened Ecological Community: Research Advances and Priorities for Banksia Woodlands,” by **Alison L. Ritchie, Lauren N. Svejcar, Bronwyn M. Ayre, et al.**, *Australian Journal of Botany* 69:2 (2021), 53-84.

“Tongan Socio-Environmental Spatial Layers for Marine Ecosystem Management,” by **Patrick F. Smallhorn-West, Sophie E. Gordon, Alexandra C. Dempsey, Sam J. Purkis, Siola’a Malimali, Tu’ikolongahau Halafihi, et al.**, *Pacific Conservation Biology* 27:1 (2021), 86-92.

“A Trickle, not a Flood: Environmental Watering in the Murray-Darling Basin, Australia,” by **Yiwen Chen, Matthew J. Colloff, Anna Lukasiewicz, and Jamie Pittock**, *Marine & Freshwater Research* 72:5 (2021), 601-619.

“The Tsunami of Pesticide Use for Rice Production on Java and Its Consequences,” by **Adlinanur Prihandiani, Dea Rifia Bella, Nadira Reza Chairani, Yunita Winarto, and James Fox**, *The Asia Pacific Journal of Anthropology* 22:4 (2021), 276-297.

“Two New Species and Additional Records of *Pseudopsis* Newman from China (Coleoptera: Staphylinidae: Pseudopsinae),” by **Zi-Wei Yin**, *Journal of Natural History* 55:15-16 (2021), 933-951.

“Two New Species of the Neoserica (sensu stricto) Group from China (Coleoptera: Scarabaeidae: Melolonthinae: Sericini),” by **Dirk Ahrens**, *Journal of Natural History* 54:45-46 (2021), 2927-2936.

“Unexpected Diversity in the Sponge-Associated Shrimps *Oncocaris* Bruce, 1981 (Crustacea: Decapoda: Palaemonidae) Revealed by Bulk Collecting Techniques and Molecular Tools,” by **Anna Šobánková and Zdeněk Ďuriš**, *Invertebrate Systematics* 35:4 (2021), 361-393.

“Updating the Australian Digital Soil Texture Mapping (Part 1*):

Re-Calibration of Field Soil Texture Class Centroids and Description of a Field Soil Texture Conversion Algorithm,” by **Brendan Malone** and **Ross Searle**, *Soil Research* 59:5 (2021), 419-434.

“Updating the Australian Digital Soil Texture Mapping (Part 2*): Spatial Modelling of Merged Field and Lab Measurements,” by **Brendan Malone** and **Ross Searle**, *Soil Research* 59:5 (2021), 435-451.

“Using Wildlife Carer Records to Identify Patterns in Flying-Fox Rescues: A Case Study in New South Wales, Australia,” by **Matthew Mo**, **Mike Roache**, **Ron Haering**, and **Alan Kwok**, *Pacific Conservation Biology* 27:1 (2021), 61-69.

“Variation in Sex Ratio of the Leafminer *Phytomyza plantaginis* Goureau (Diptera: Agromyzidae) from Australia,” by **Marianne P. Coquilleau**, **Xuefen Xu**, **Peter M. Ridland**, **Paul A. Umina**, and **Ary A. Hoffmann**, *Austral Entomology* 60:3 (2021), 610-620.

“*Ventilago* (Rhamnaceae) Fruit from the Middle Eocene of the Central Tibet, China,” by **Cedric Del Rio**, **Teng-Xiang Wang**, **Xiao-Ting Xu**, **Romain Sabroux**, et al., *International Journal of Plant Sciences* 182:7 (2021), 638-648.

“Waterlogging Tolerance of the Threatened Grass *Arthraxon hispidus* and Implications for Its Habitat Niche within the Endangered Wetlands in North-Eastern New South Wales,” by **Laura White**, **Claudia Catterall**, **Ben Wirf**, and **Kathryn Taffs**, *Pacific Conservation Biology* 27:1 (2021), 93-99.

“‘We Want Development:’ Land and Water (Dis)connections in Port Moresby, Urban Papua New Guinea,” by **Michelle Nayahamui Rooney**, *The Contemporary Pacific* 33:1 (2021), 1-30.

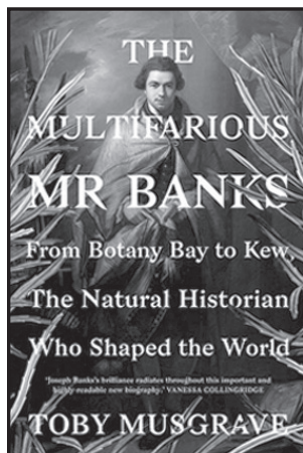
“Weather Systems and Extreme Rainfall Generation in the 2019 North Queensland Floods Compared with Historical North Queensland Record Floods,” by **Jeff Callaghan**, *Journal of Southern Hemisphere Earth Systems Science* 71:1 (2021), 123-146.

“What’s Wrong with the Australian River Assessment System (AUSRIVAS)?” by **Bruce C. Chessman**, *Marine & Freshwater Research* 72:8 (2021), 1110-1117.

“*Zozoros* Noyes and Hayat (Hymenoptera: Encyrtidae): First Report of Genus and Description of a New Species from India, with a Key to Species,” by **Mani Ayyamperumal** and **Sagadai Manickavasagam**, *Journal of Natural History* 55:17-18 (2021), 1169-1175.

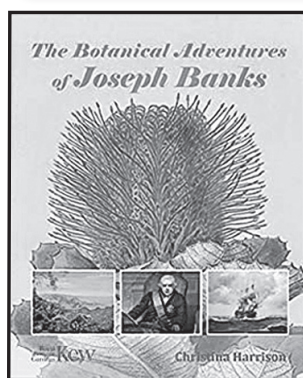


BOOK REVIEWS



Toby Musgrave, *The Multifarious Mr. Banks: From Botany Bay to Kew, the Natural Historian Who Shaped the World*. New Haven, CT: Yale University Press, 2021, xvii + 368. Maps. Figures. Bibliography. Index. ISBN 0300259204 and 978-0300259209. Cloth. US\$35.00 and

Christina Harrison, *The Botanical Adventures of Joseph Banks*. New edition, Kew, Royal Botanic Gardens: Kew Publishing, 2020. 127 pp. Maps. Figures. Bibliography. Index. ISBN 1842467158 and 978-1842467152. Cloth. US\$25.00.



Toby Musgrave's recent biography of Joseph Banks, *The Multifarious Mr. Banks: From Botany Bay to Kew, the Natural Historian Who Shaped the World*, presents the main outline of Banks' privileged and influential life, beginning with his family's history and ending with his death. The narrative follows the typical primary blocks of Banks's life, centering on his voyage aboard the *Endeavour* and his presidency of the Royal Society. His early life, his other voyages, some aspects of his personal life, and his many projects fill out the

narrative. The illustrations are often in color and of a high quality.

The book is an accessible work but does not have the scholarly depth of monographs such as Harold Carter's or John Gascoigne's treatment. In fact, discussion of the secondary literature on Banks is largely absent. There are no close readings or systematic analyses of the primary literature, including Banks journals and letters, which are only included to expand on the themes. Passing reference is made to writers such as Anne Salmon and Nicholas Thomas. As a result, while the narrative is seamless, it fails to engage with the scholarly literature.

Musgrave's overarching claim is that Banks was one of the most important men

of his age (xvi), a claim that the author argues persuasively, specifically in terms of Banks's role in creating, promoting, and leading key scientific institutions in Britain, and maintaining a workable relationship between those institutions and the British navy, the government, George III, and entities such as the East India Company. The details are informative and engaging, such as Banks's close connection to Iceland, extensive network of plant collectors, role in bringing Merino sheep to Britain, attempts to reform the Royal Mint, and role in creating the British presence in Australia.

At times, the narrative seems to be overly upbeat, where the positives are emphasized and the negatives are underplayed or explained away. For instance, Banks is criticized for his dealings with Miss Harriet Blosset and his arrogance during the preparation for Cook's second voyage. But these "expansive and dysfunctional aspects of his life" are quickly discussed, seldom raised and not connected to the other aspects of his life or a general assessment of his character.

Likewise, the death of Banks's servants in Tierra Del Fuego is labeled as "tragic," but not tied back to Banks's decisions. Instead, Banks maintained "a cool head in a crisis," even if he was a primary reason for the crisis occurring in the first place. Musgrave notes Banks's purchase of tattooed heads in New Zealand in a single sentence (108) and does not consider them when Banks's life and works are later assessed, even though he is described as "the father of ethnography" (136). A darker narrative of Banks's life and character could have been constructed from the same details, while still establishing his importance. Musgrave contents himself with narrating the life in a generally positive way and accepting that Banks was "a man of his times" (331).

Finally, Banks is criticized for failing to publish his research, including the *Florilegium*. On the other hand, Banks produced an impressive number of reports and essays for his various projects and institutions, even if they were not published. Musgrave also notes that Banks was closely connected to over 200 published papers. The biography effectively brings together many of the people and institutions that connect to Banks's importance. As the author notes, Banks was most impactful as an "enabler and facilitator" (223) or as an administrator and organizer, which means that his importance relies on what other people did on his behest or with his support. It is interesting how many of his projects relied on people who were Scottish educated.

Some textual errors were found. The 'okina in Hawai'i is present, but incorrectly printed as "Hawai'i." One unfortunate use of place names occurs when Musgrave refers to Haida Gwaii but does not mention its previous name, the Queen Charlotte Islands, which would indicate the link during Banks's time to Queen Charlotte, King George III, and British activities in the Pacific Northwest.

In addition, the index was noticeably incomplete. Hawai'i is not included, even though it is mentioned at least twice in the monograph. Places such as Jamaica and

Saint Vincent are likewise absent in the index, even though they are important parts of Banks's later accomplishments. There is also no cross-referencing system, so, for instance, the entry for sheep cannot be found through "Merino," even though Merino sheep are the primary topic discussed.

In short, this is an accessible, popular work on the life of Joseph Banks that tends towards a positive, redemptive account of Banks's character and accomplishments.

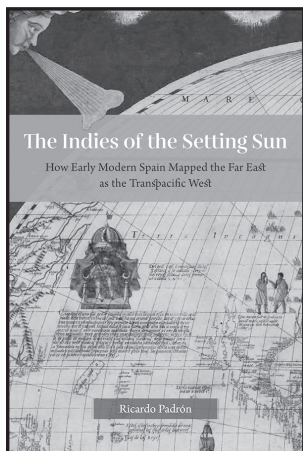
Christina Harrison's monograph, *The Botanical Adventures of Joseph Banks*, published by Kew Gardens, is a brief and accessible overview of Banks and Kew Gardens. In this retelling, Banks is "solely focused on his botanical mission" (27), which simplifies the narrative and his life. Banks's sexual activities are euphemistically referenced, the violence is downplayed, and the broader social and political impact of his life not considered.

The book is somewhat mistitled; it begins with Banks and the *Endeavour* voyage, but much of the book focuses on the collecting activities of other people organized or encouraged by Banks through his position as adviser on Kew Gardens to King George III. The book is as much about Banks being an institutional leader. Short, typically two-page, sections can be found on Francis Masson, Sydney Parkinson, Archibald Menzies, Allan Cunningham, Franz Andreas Bauer, William Bligh, and others. Additional sections focus on plants either secured for Kew Gardens by Banks, such as tea, mangoes, hemp, and ornamental plants from China. Each section is richly illustrated with high-quality reproductions of items in the Kew archives, contemporary portraits, and botanical illustrations from magazines.

The book is an accessible, well-produced overview of Joseph Banks and Kew Gardens. There are few details and no scholarly engagement, but the book is designed to appeal to a general audience interested in Kew Gardens.

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Ricardo Padrón, *The Indies of the Setting Sun: How Early Modern Spain Mapped the Far East as the Transpacific West*.

Chicago: University of Chicago Press, 2020, Maps. Illustrations. X + 346. Notes. Index. B&W Photographs. Paper and eBook Formats. ISBN 978-0-226-45567-9 and 9780226455679.

I enjoyed reading Ricardo Padrón's intriguingly entitled book, *The Indies of the Setting Sun: How Early Modern Spain Mapped the Far East as the Transpacific West*. The book encapsulates the global (and circular) issue of Far East and Transpacific West. The word Orient derives from the Latin

word *orior* – to rise – helping to understand the eastward meaning from where the sun rises. *Poniente* – to put or set in Spanish – lies to the west where the sun sets. All living things on our planet experience the rising and setting sun, but once the reference point is fixed in Spain (for example) the Orient becomes China, Japan or the Philippines, while westward looks across the Atlantic to the Americas and the Pacific. It is beneficial to think about where I reside on Oahu in the Hawaiian Islands. For me westward leads to China, Japan and the Philippines, while eastward is the Americas, the Atlantic Ocean and Europe. For Spanish-speakers, the study of Pacific Islands includes the Philippines a legacy from the early modern world. For English-speakers the Philippines usually falls into the category of Southeast Asian studies. This book brings them together while also looking globally at the Americas, India, China, and Japan.

Padrón builds on his expertise in literature and geography as developed in the 2004 book *The Spacious Word: Geography, Literature and Empire in Early Modern Spain* along with later journal articles. His new book continues to analyze Spanish thinking about space, creating maps and writing about an expanding empire. Padrón succeeds in explaining how the Spanish “spatial experience drew upon a unique geopolitical imaginary.” (p. 3) He shows how the “New World” became the two continents of America and how East Asia became the extreme end of the broad Orient. The newness of the discoveries allowed for multiple pathways. Padrón, using the term hodological space, explores the multiple paths or possible connections between places. A 1585 book by Juan González de Mendoza on the notable things, rites and customs of China also has a section about Spanish explorations into what would become New Mexico. The path from New Mexico to China seems convoluted and crazy to us, but as the author attempted to travel to China from Spain, he first

went to the kingdom of New Spain in Mexico, spoke with people who crossed the Pacific to China and also learned about the new discoveries to the north of the viceroyalty. The infrastructure of the Spanish Empire in the late sixteenth century linked China and New Mexico.

Padrón includes an introduction, eight chapters and a conclusion in the book. The chapters have memorable titles that help connect them together. Chapter 1 is entitled “The Map behind the Curtain.” This chapter has an internal section about a “new map for Spanish Pacific Studies” which reminds us that maps do not merely illustrate but shape developing knowledge. A map structures our facts and imagination as much as it elides assumptions and unknowns. Chapter 2 “South Sea Dreams” and Chapter 3 “Pacific Nightmares” work together in moving the European imagination from a globe with mostly land to a new reality after Magellan’s voyage where the Pacific Ocean encompassed more “emptiness” than Spaniards could envisage. Padrón describes Pigafetta’s tone in his description of the Pacific crossing as the distance measured in the “toll it takes on human bodies and souls.” (p. 83) Peter Martyr d’Anghiera tried to tame Pigafetta’s nightmares with assurance that surely there would be profitable islands to discover. Chapters 4 and 5 include ambitions and conquests, showing how one moved to the other. The theories and inventions about climates and continents in Chapter 4 connect well to the actual conquests realized in the Philippines, as well as the mapping of the northern Pacific as a mere gulf. The Indies of the West, already an invention from India and Indies of the East become a trio of the Indies of the Noon Day, Indies of the Big Dipper (septentrional, seven stars of *Ursa Major*) and the Indies of the Setting Sun (*poniente*). Chapter 6 and 7 focus on how the mapping of China and Japan into the Spanish imperial imagination emerged out of actual interaction, eschatological hopes and the disparate places within the Spanish Empire. Could Mexico really be a bridge to China? Was it likely that New Mexico was trading with China with one contiguous land across the north? The hodological space or potential paths were still possibilities, not certainties. Padrón, by focusing on the maps themselves, demonstrates that knowledge was contingent with unknowns, potentialities and futures.

Chapter 8 “The Anxieties of a Paper Empire” will remain in my thinking because the thinking on the paper maps and written pages captured developing perspectives. Philip II and Philip III of Spain hoped to expand their empire into Cambodia and more. But then even in 1609 there were discussions about abandoning the Philippines. In the early years of the 1600s, official historians for the Spanish Empire, Antonio de Herrera and Bartolomé Leonardo de Argensola tried to establish the “transpacific range of Spanish sovereignty.” Padrón shows how they betrayed “the anxieties of a monarchy in crisis.” (p. 234)

I recommend this book for the close reading of the early Spanish publications and subsequent explanations of how Spaniards imagined the discoveries that came

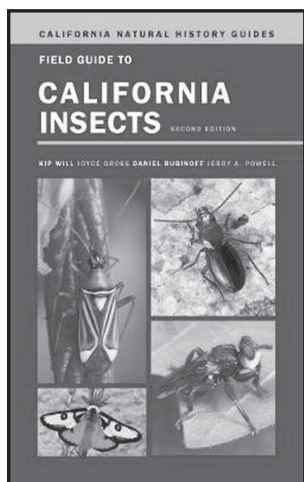
in torrents during the sixteenth century. We might snicker and point out how wrong they were, but their words lasted and, no matter how mistaken to us, their reasoning allows us entry into their minds. We often have a “false sense of familiarity with the past” and need to be shocked out of it, as Robert Darnton pointed out in *The Great Cat Massacre and Other Episodes in French Cultural History* (1984). As a phrase “Indies of the Setting Sun” continued the Columbus error considering his discoveries a route to India. Padrón explains how Spaniards saw their Pacific crossing as arriving at the Indies of the Setting Sun, linking their Indies.

Among its many delights, the book increases recent contributions to the Spanish Imperial history and Pacific Studies. The Spanish claims in the Americas should not make the voyages, colonization attempts and cultural legacies of Spain in the Pacific a mere footnote in Latin America Studies. Asian luxuries, Chinatowns in Mexico, Spanish American elites, even an expansive identity of Spanish-ness shows that the Spanish remained open to Asian connections.

Padrón analyzes European positions about Spanish mapping and discoveries, with their legacy through the subsequent centuries. Reading his contributions along with Epeli Hau‘ofa’s essays like “Our Sea of Islands,” Paul D’Arcy’s *People of the Sea* or Vicente Diaz’s articles and books about Chamorro and Micronesian sailing and education open an ocean for learning about multiple positions on the planet. I smile thinking that studying the “Far East” while in the Pacific could very well mean in my global positioning that I examine the history of a more provincialized Europe.

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Kip Will, Joyce Gross, Daniel Rubinoff and Jerry Powell, *Field Guide to California Insects, 2nd edition*. Oakland, CA: University of California Press, 2020, 521 pp. 707 color photographs, with maps and drawings. US \$26.95 ISBN 978-0-520-28874-4.

As amateur Natural History buffs, we welcome the publication of the *Field Guide to California Insects*, Second Edition. After 40 years in print, the popular first edition has been completely re-written and now includes color photographs of all the insects it describes. Jerry Powell, author of the first edition, is joined by a team of experts in writing the *Guide*. They include Joyce Gross and Kip Will from the

University of California and its Essig Museum of Entomology, and entomologist Dan Rubinoff from the University of Hawai‘i.

The book is important and unique. Why? The book’s title means what it says – it is a portable field guide, and it is written for students and amateur naturalists who are interested in insects of California and the West. A clear, accessible introduction to *Class Insecta* lays the groundwork, providing the basics of insect anatomy, reproduction, and behavior, as well as a description of the systems for classification and nomenclature. An overview and map of the six faunal provinces and the smaller ecoregions of California are also included to provide ecological context.

Since it would be impossible to catalog the 20-30,000 known insect species inhabiting California, the guide does not attempt to give comprehensive information on any one insect group. To be useful as a field guide, it selects only representative insects from each of the 26 orders that are found in the state. Each entry includes a high-quality color photograph together with distinguishing features, habitat, and range. Text and photos of the 707 insects are carefully integrated by a simple and clear numbering system. A comprehensive bibliography, glossary, and list of helpful online resources are also handy.

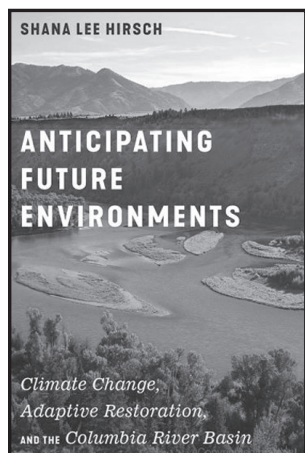
Today, when a beginner or student has questions about an unfamiliar insect, our first instinct is to go to the internet. In the case of animals, plants, or trees, there is an abundance of easy to find information. Yet for insects, the search is much more difficult – partly due to the much greater numbers of species, partly because entomology has been a less popular activity for amateurs and students. Citizen science has typically focused on the more glamorous birds, plants and marine life.

Are we missing the boat with insects? They are the foundation of the food chain and can be indicators of ecosystem health and the effects of climate change. But in a broader sense, insects are simply a wonderful, easily accessed window into the natural world around us. They are fascinating and they are everywhere!

In a recent article for the science blog “The Conversation,” University of Florida entomologists Akito Kawahara and Megan Ennes point out that because insects can be kept in the classroom, they are ideal for teaching children about nature – in a hands-on way. Collecting insects has been shown in studies in Japan to help children develop more positive attitudes towards all wild animals. The writers note that even during the current pandemic, insects are ideal for outdoor teaching and backyard science <<http://www.theconversation.com/want-to-teach-children-about-nature-insects-can-help-145160>>.

The new edition of the *Field Guide to California Insects* would be a fine companion in these adventures. In the context of climate change and possible population changes in both birds and insects, involvement of students and amateurs in citizen science is important for the future. This wonderful *Guide* belongs on the shelves of western libraries, schools and homes – and in the hands of students, hikers and backyard naturalists.

Robert and Marli Melton
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Shana Lee Hirsch, *Anticipating Future Environments: Climate Change, Adaptive Restoration, and the Columbia River Basin*. Seattle: University of Washington Press, 2020, 232 pages with 1 map, US\$30.00 and ISBN 9780295747293.

Anticipating Future Environments enters an important conversation: ecological restoration cannot afford to continue unaltered in the face of climate change. The methods are outdated and new methods which account for an undeniably and irreversibly changing environment must emerge locally through experimentation in the field using forward-predicting models and baselines rather than

casting back to the past.

The book's result and intent are not to promote and discuss concrete field methods but to appeal to working restorationists and potential donors to restoration to shift their focus considerably. It is about altering the conceptual paradigm of this field. Garnering hope from the progress in the Columbia River Basin, we see that the path is being forged. Except even they have a long way to go to accomplish such epistemic change. Much stands in their way – among others, continued habitat degradation, debate between engineering based and process based practices, lack of funding, and the old epistemic. It is here where the book hits the global sore point. These blockades to effective ecological restoration, preservation and conservation are found worldwide. A utilitarian approach is intensely historical and ubiquitous. The conversation is about changing this. The approach to climate change argued for in this book is kept large-scale, vague and conceptual. This is for good reason. It is a solution meant to be broadly applicable, meant to leave room for the creation of diverse concrete methods particular to each locality. The few methods addressed in the book are purposefully few and regionally important. There is great value in allowing for and promoting localized practices. The author was brilliantly careful to do so here.

The first two chapters clearly state the problems by looking at historical human and restoration activities in the Columbia River Basin. The present endangerment of salmonid species is ultimately a result of damaging alterations to the environment and overfishing working in concert. The author covers the advent of canning technology in the region, annihilating the fish runs with its high demand; the severe alteration, by various means, of the hydrology of the basin and its consequences; and the habitat loss accompanied by significant human development. It is clear the Columbia River Basin is a large and highly developed area, exacerbating the complexity of restoration. Restoration in the basin has involved heavy contestation of two conservation perspectives: utilitarian versus preservationist. These perspectives, or imaginaries, cause two different approaches to restoration: engineering-based and process-based, respectively. In one, humans force a change. In the other, humans make way for nature to heal itself.

The author covers how the field of ecology has evolved through the 1900s to the present to shift away from engineering approaches to focus more on process-based. Further the essential points were made that scientific practice was and is often conducted within the context of cultural values of a specific time and place and is at the mercy of those who fund it. The coverage of these topics are brief, and could be entire books themselves, but for the purposes of this book do well to give the reader a solid sense for the extent of the Columbia River Basin, the scale of the environmental problem it faces and the historical issues within restoration practice there.

In chapter 3 the issues with restoration practice deepens. In light of a climate

changed future, how can ecological restoration most effectively adapt? The author “zooms in” to two active restorationists to help start answering the cardinal question of the book. She also offers one of her most significant constructive criticisms. She makes use of the two restorationists, Sean Gallagher and Peter Bahls, throughout the chapter to drive points like the issues with baselines, the need to adjust baselines, the scale of climate-driven changes in the basin, and the difficulties faced by restorationists. Baselines for restoration are an issue because they focus too heavily on the past. The argument here is that baselines rather need to be an imagined, or anticipated, future where climate change and its subsequent environmental alterations are plugged in to the equation. The baselines of the past are unrealistic given the ineluctable approach and hold of climate change. This is a valuable suggestion and can be widely applicable. Although the author would do well to consider the fine balance between the mentioned “shifting baseline syndrome,” where depleted ecosystems are continually accepted as the norm, and the adoption of present-state or future-state baselines. Given the presently degraded state of many ecosystems it would be unwise to anticipate baselines without first seeking guidance from the historical state of any one of them. A historical baseline is better than any baseline derived from a depleted ecosystem.

Chapter 4 works to help reconcile the differences between engineering-based and process-based approaches to restoration using beaver dam analogs (BDAs) as an example. BDAs are a way to introduce, through engineering, an ultimately process-based pathway to restoration. The intention is to allow for interdisciplinarity in considering the greater issue, by which the emergence of more specific solutions that are largely process-based can occur. Changing the dominant approach, which is currently utilitarian, requires a paradigm shift among practicing restorationists and greater society to accept the ‘new’ picture of a healthy ecosystem as unpredictable and dynamic. These qualities give rivers “room to breathe” and greater capability to heal themselves.

By exploring monitoring strategies and computer modeling uses, chapters 5 and 6 remind us of the scale of the complexity and uncertainty of salmon restoration in the basin. The chapters start bringing together the concepts of emergence, acclimation and anticipation around which the last three chapters of the book are formed. These three are the “adaptive epistemologies” discussed in the introduction of the book. Computer modeling can be used to quantify, and therefore better control, uncertainty. Monitoring has been a contentious strategy but ultimately is an important informer of restoration work. Quantifying diversity, uncertainty and indicators of ecosystem health before and after restoration work is essential in better adapting to climate change.

The whole concept of acclimation applied here is about keeping our knowledge infrastructures flexible to acclimate to new knowledge and input rather than remaining rigid and unchanging amidst a rapidly changing environment. Monitoring

practices help encourage this. Removing rigidity from knowledge infrastructures and restoration and monitoring programs gives room for the emergence of new strategies. Modeling is a great tool for anticipating future environments and an infrastructure which accepts change enables the adoption of strategies to most effectively restore our natural world long-term.

Justification for the adaptive epistemologies and greater depth of explanation for environmental imaginaries conclude the book. It is right to conclude with this; environmental imaginaries are critical in how we as a society view and treat nature, and how we treat it now has material consequences for the future. It is here where this book clearly falls in place with the hordes of scientists, environmental historians, and general environmentalists who call for seeing nature differently. Our old epistemic, our utilitarian views, are narrow-minded and unsustainable. As the author claims, the book has clearly outlined the evolution of restoration thought in the basin over the past century, eventually leading to a comparatively progressive adaptive approach. What is being done in pockets across the basin can and should serve as models for other work across the globe. But the basin as a whole still has far to go.

In critique, an ecologist already engaged in this conversation would have to sift through much to get to the substance of the argument. The substantive answers provided are surrounded by information more appealing to the layperson or the potential donor to restoration work. Much time is spent working up to the proposed solutions, providing background for the reader to enter and understand the conversation. Additionally, the concepts which she claimed would be unsettling likely are to long-time practitioners, donors and institutions invested in the way restoration has historically been practiced. Though to the young and recently educated they are not. Such concepts and ways of thinking about the future are not foreign or new to this group. As such this book would likely fall short among this audience.

The book has a very “environmentalist” call to action. It reaches diverse audiences with its readability, careful and consistent statements and reminders of problem and intent, lack of jargon, and provides an essential awareness while presenting a widely applicable solution. What at first seem very basic concepts are applied and combined here brilliantly to form a powerful conceptual argument for thinking differently about ecological restoration in a changing climate.

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Bulletin of the Pacific Circle is the official publication of the Pacific Circle, organized in 1985 to promote and assist scholarship in the practice, history and social studies of Pacific science. The Circle is a commission of the International Union of the History and Philosophy of Science.

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