



Africa Section
Report of the Section activities for 2021

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Executive Summary

The Board of Directors of the SCB Africa Section presents this annual report of the Section's activities in 2021. The report serves to ensure accountability of the Section's administration, preserve institutional memory, and provide a summary of the proposed activities for 2022.

Despite the unabated pandemic that continues to ravage human societies, the SCB Africa Section Board of Directors continue to provide leadership to guide the Section in its goals and visions. Fifteen years ago, the SCB Africa Section hosted the International Congress for Conservation Biology (ICCB) 2007 at the Nelson Mandela Metropolitan University in Port Elizabeth, South Africa. In 2021, the SCB Africa Section hosted the 30th ICCB held virtually with Kigali, Rwanda being the geographical reference location. ICCB 2021 has been described a huge success, despite the pandemic uncertainty and the challenges posed by the wideranging time zones. As a compensation, SCB's Governing Board voted for the 31st ICCB, dubbed ICCB 2023, to be held in-person in Kigali, Rwanda. This provides a strong support and capacity building for SCB in Africa and African conservation experts.

In the year in focus, the SCB Africa Section approved its Section Policy guidelines, revamped the Section website, the first time in over 10 years, and also provided registration grants to allow African experts and students to attend the ICCB. Furthermore, the *African Conservation Telegraph* newsletter published four issues in its 16th volume, while the Section Board started the efforts to register the SCB Africa Section as an NGO in Africa. Also, the Section Board continues to explore suitable locations for its 4th African congress for conservation biology. The Section sustained efforts to provide membership services for members and African experts through sharing of vital information on research grants, graduate research positions, and scholarships through its ever-growing social media platforms and Gmail listserv. The e-mentoring program this year focused on increasing African representation at the ICCB 2021 through a workshop on how to write quality abstracts for ICCB.

These achievements would not have been possible without the selfless service and unflinching support of the Section Board and other member volunteers. We are also grateful to



the staff members of the Executive Office of the Society in Washington D.C., United States, Dr. Murali Pai, the Editor-in-Chief of the *African Conservation Telegraph* newsletter, Dr. Tuyeni Mwampamba, and Frowin Becker, who volunteers in managing the Section's social media platforms.

We look forward with high hopes to a productive 2022. We plan to complete the NGO registration for the SCB Africa Section in Rwanda, marking a major milestone in the history of the Section. We also hope to organize two events: the 4th ACCB as well as a biodiversity symposium for African Diaspora experts in conservation science. Furthermore, the Section Board looks forward to restructuring its e-mentoring program by expanding it to an Education Program that will cover several aspects of professional development programs for African experts. We need your wealth of experience, leadership, and expertise to accomplish these tasks.

Israel Borokini
President of the Board of Directors,
SCB Africa Section



SCB values

Mission

The mission of the Society for Conservation Biology is to advance the science and practice of conserving Earth's biological diversity.

Vision

The Society for Conservation Biology envisions a world where people understand, value, and conserve the diversity of life on Earth. We envision SCB, a global community of conservation professionals, as a leading scientific voice for the study and conservation of Earth's biological diversity.

Organizational Values

The Society for Conservation Biology holds these values:

- There is intrinsic value in the natural diversity of organisms, the complexity of ecological systems, and the resilience created by evolutionary processes.
- Human-caused extinctions and the destruction and loss of function of natural ecosystems are unacceptable.
- Maintaining and restoring biological diversity are individual and collective responsibilities
 of humans.
- Science is critical for understanding how the natural world operates and how human actions
 affect nature.
- Collaboration among scientists, managers, and policy-makers is vital to incorporate highquality science into policies and management decisions affecting biological diversity.



Strategic Priorities

In service to the mission, vision, and values, the SCB Strategic Plan focuses on five priorities:

1. Facilitate the creation and dissemination of conservation science.

The highest quality scientific research and expertise needed to understand and conserve biological diversity is identified, supported and disseminated.

2. Advance the application of conservation science to management, policy and education.

Management, policy and education at local, national, regional, and global levels are directly informed with the highest quality science. The effectiveness of management actions is routinely and openly evaluated.

3. Empower Sections, Committees, Working Groups & Chapters to build local, national & international capacity.

SCB Sections, Committees, Working Groups, and Chapters grow and develop to build local, national, and international capacity worldwide for conservation of biological diversity.



- 4. Build organizational capacity to maintain robust & sustainable economic & business models. SCB has the capacity necessary to sustain core operations and implement programmatic goals and objectives that advance our vision and mission.
 - 5. Enhance services to meet current & potential member needs.

The needs of current and potential SCB members are effectively served to maximize their impact in advancing our vision and mission.



Strategic priority 1: Facilitate the creation and dissemination of conservation science

In 2021, the SCB Africa Section hosted the 30th International Congress for Conservation Biology (ICCB), between December 6 and 17, 2021. Due to the pandemic, it was organized as a fully virtual event, with the hopes of returning to an in-person meeting in Kigali, Rwanda in 2023. The meeting provided an opportunity for African scientists to present their work and network with colleagues. The meeting was attended by 1193 participants from 90 countries, with South Africa, Rwanda, and Kenya among the top 10 countries with the highest number of participants. The success of this unprecedented meeting is attributed to the indefatigable efforts of members of the ICCB Steering Committee, headed by Badru Mugerwa, the Scientific Subcommittee chaired by Dr. Tuyeni Mwampamba, the SCB Africa Section leadership, headed by Dr. Israel Borokini, and the SCB Executive Office. The Section Board also acknowledge the untiring efforts of Drs. Fatsuma Olaleru, Falko Buschke, and other African experts who volunteered in many ways. This also includes countless number of African volunteers who stepped up to help with reviewing abstracts and proposals, moderating general oral sessions, proposed and organized symposia and roundtable discussions during the congress.

The findings of the 2016-2018 surveys administered to over 300 African conservation science experts and protected area managers were presented during a roundtable discussion at ICCB 2021. The roundtable discussion, titled, "Developing a research agenda for addressing key threats to biodiversity conservation in Africa" was co-organized by Drs. Tuyeni Mwampamba, Ruth Kansky, and Israel Borokini. Findings from the survey show that species overexploitation remains the greatest direct threat to African biodiversity, followed by land use change. Major indirect threats to biodiversity include weak governance, poverty, and knowledge gaps, among others. Unfavorable policy, research gaps, and financial resources were identified as the top three barriers to positive conservation outcomes. The respondents also recommended that research priorities should be given to long-term monitoring of biodiversity and sustainability projects, and solution-driven studies to reverse biodiversity loss, human-wildlife conflict, restoration, and climate



change adaptation. For African experts to conduct research in these areas, respondents highlighted the need for skill acquisition in specific areas such as statistical modeling, geospatial analysis, effective leadership and communication strategies, and multidisciplinary studies that integrate social sciences, among others. Separate but tangential studies however, revealed little collaboration among researchers in African countries. The findings of this survey will hopefully be published as a policy brief and/or paper in scientific journal.

African Conservation Telegraph, ACT, the Section's official newsletter, continues to lead the Section's effort to facilitate conservation research information exchange and dissemination in Africa. This year, the newsletter published four issues in its 16th volume, which were released in May, August, October, and December 2021. The Section board is grateful to Dr. Murali Pai, Lalarisoa Rakotoarimino, and other volunteer editorial team for their sustained efforts to manage the ACT newsletter. Dr. Pai continues his unflinching support and excellent service for this newsletter since its resuscitation eight years ago.

Hosting the ICCB 2021 also brought tremendous benefits and global exposure to the SCB Africa Section and our contribution to biodiversity conservation. The *Current Conservation* magazine published a special Africa issue, titled, "African Conservation Today: New Trends, Perspectives and Opportunities" in its Volume 15.3, focusing on conservation developments and advancement on the continent. It also featured an article by Dr. Gladys Kalema-Zikusoka, who is also one of the plenary speakers during the ICCB 2021. You can access the special issue here:

https://www.currentconservation.org/issues/15-3/

SCB's three journals continue to receive wide readership in the conservation community. *Conservation Biology* and *Conservation Letters* continue to remain in the top 10 of the most impactful conservation journals globally. *Conservation Science and Practice* received its first impact factor since its creation, which stood strong at 3.23. This journal fills the publication niche for papers with smaller study areas and with focus on management practices that cut across a wide range of readership, typical for many African studies. Therefore, we continue to encourage African scientists to consider submitting their papers



to this journal. SCB members from qualifying Global South countries whose papers were accepted can get publication fee waivers. Currently, there are eight African associate editors for *Conservation Science and Practice* journal.

Outlook for 2022

Building on the ICCB 2021 momentum, the Section Board is working towards organizing its 4th African congress for conservation biology (ACCB). In 2021, we explored suitable locations in Namibia and Kenya, but was not successful either due to expensive conference venues or limited number of local volunteers to coordinate the planning. We have not yet given up, as we continue to explore other country options up till March 2022. Needless to say, organizing Section meetings provides a great opportunity to incubate collaborations among African experts and just like other SCB Sections, financial gains from such meetings are used to provide scholarships and research grants for members.

Parallel to the proposed ACCB 2022, the Section Board has also partnered with the SCB North America Section to organize a symposium during their 6th North American congress for conservation biology (NACCB), which will be held on July 16-21 in Reno, Nevada, United States. This symposium is being organized for the African Diaspora experts in conservation science, with the hopes of building and consolidating the Diasporic efforts on conservation science, policy, and management in their home countries.

Organized as a pilot project, we are hoping to replicate the anticipated success of this symposium in Europe in the near future.

During the SCB Africa Section general meeting held at the ICCB 2021, members reiterated the need to create a scientific journal where African SCB members and conservation experts in the continent can publish their papers. The Section Board shares in members' sentiments towards this, but has not taken any actions given the enormity of creating a new journal. The Section Board will continue to nurture this idea until an appropriate time when such a mega project can be implemented.



Strategic priority 2: Advance the application of conservation science to management, policy and education

Following the establishment of the Section Policy Committee in 2020, the Section Board and the Policy Committee developed and approved the Section's first ever Policy guideline in 2021. This guideline went through revisions by the Section Board and the Global Policy Committee before its approval by the Section Board in April 2021. This Committee is one of the most active Committees in the Section and the team work demonstrated by the Committee is unparalleled. The Section Board is grateful to Dr. Abraham Ekperusi, the Policy Committee Chair, for his experience and dedication to this Committee.

Outlook for 2022

The Section Policy Committee continues to seek volunteer members from the Southern Africa bloc, in order to ensure diversity and inclusion. Secondly, the Section Board and Policy Committee will strive to encourage members and Chapters to write policy statements and briefs to highlight and address conservation issues at their local, regional and national levels.

Strategic priority 3: Empower Sections, Committees, Working Groups & Chapters to build local, national & international capacity

The Section successfully held a general election for some of its vacant Board positions. Starting in 2022, Frowin Becker, who was previously appointed as the Memberat-Large #2, succeeds Dr. Tahiana Ramananantoandro as the Information Officer. The Member-at-Large #2 position is now occupied by Dr. Jean Bernard Ndayambaje, while Jean Aimé Ruticumugambi becomes the Section's Member-at-Large #3 and Student Representative. Aimé succeeds Alain Ngute who served and facilitated the creation of the Section's social media platforms. Towards the end of 2021, both Bernard and Aimé have been coordinating the Section's efforts to register the SCB Africa Section as an NGO in Rwanda. Frowin, Bernard, and Aimé start their first terms in the respective Board positions. Michelle, Margaret, and Janette were re-elected to their current Board positions,



starting their second terms. The Section Board election was particularly successful in that the contestants who did not win the elections offered or accepted the offer to serve the Section in other platforms. James Munyawera offered to help manage the Section's social media platforms and he has been working with Frowin in this area since December 2021. Tsholofelo Lori accepted the offer to coordinate the e-mentoring program of the Section and facilitate its transformation into an Education Program.

The Section Board was excited with the creation of an SCB Chapter in Rwanda in October 2021. The events leading to the creation of the Chapter was exceptional given the tireless efforts of Dr. Antoine Nsabimana which resulted in the membership registration of over 20 people before the official registration of the Chapter. Antoine went on to become the Chapter's first President. He and his team are also coordinating the efforts to register the SCB Africa Section as an NGO in Rwanda.

The Nigeria SCB Chapter had a successful election of new Chapter Board members, led by Dr. Adedotun Afolayan. Secondly, the Nigerian Chapter also reviewed and approved its constitution to guide the Chapter's activities, and also held a general members' meeting on September 15, 2021. Furthermore, the Chapter began its monthly webinar and has made efforts to increase internal communication among members. The Chapter Board hopes to complete the registration of the Chapter as an NGO in Nigeria in 2022.

The Zimbabwe Chapter, under the leadership of Mxolisi Sibanda continues to wax stronger, with its sustained monthly webinar which are posted on their YouTube channel. The Chapter also successfully nominated Professor David Cumming for the SCB's Distinguished Edward T. LaRoe III Memorial Award.

Outlook for 2022

Registration of the SCB Africa Section as an NGO in Africa is the main priority for 2022. Historically, the Section Board has made several attempts to achieve this, but the process has been daunting and many African countries have a challenging process for registering as an international NGO. Luckily, Rwanda has an easy process for registration as an international NGO and with an SCB Chapter in the country, we hope to complete the



NGO registration by the end of the first quarter of 2022. This will ease the pains of Africans paying their membership dues to the SCB bank in the United States, which attracts bank transfer fees. Secondly, registering as an NGO in Africa will help increase SCB presence in Africa and increase chances of getting donor funds to implement capacity building projects and organizing conferences.

The Section Board will leverage the ongoing major administrative changes being implemented in SCB to strengthen its relationship with Chapters, through strategic communications and providing liaisons with Chapter presidents. These communications will facilitate information exchange among Chapters in Africa and help to sustain these Chapters for long-term grassroots impacts on conservation.

Furthermore, we continue to look for and explore the opportunities for creating more Chapters in Africa, by leveraging over 100% increase in paid members of the society in Africa. Members from the same country would be contacted and encouraged to start an SCB Chapter in their country.

Strategic priority 4: Build organizational capacity to maintain robust & sustainable economic & business models

Registration of the SCB Africa Section as an NGO as well as opening a bank account with a pan-African bank is a strategic effort towards organization capacity to increase the SCB presence in Africa and attract funding for conservation efforts in the continent. Moreover, this will also ease the challenges associated with paying SCB membership dues from Africa. The effort started in 2021 with the Section Board identifying Rwanda and Kenya having potentials for international NGO registration. The Section Board received tremendous support from Prof. Antoine Nsabimana, the SCB Rwanda Chapter President, and Prof. Beth Kaplin both at University of Rwanda, and Prudence Ndabasanze, the cofounder of Nature Rwanda NGO. With their support and the creation of the SCB Chapter in Rwanda, the Section Board is making giant strides towards completing the NGO registration in the first quarter of 2022. This will be followed by opening a bank account with a pan African bank that have branches in several African countries and can facilitate



continental money transfer without bank fees. We will continue to explore this and other options as we get sufficient information that will guide our decisions.

The Section Board successfully revamped the Section's website [https://conbio.org/groups/sections/africa] for the first time in over 10 years! While some webpages were updated with new information, new webpages were added, and some pages with outdated content were archived. Many of the Section's achievements over the past several years were integrated into this Section website.

The Section's social media presence has continued to grow steadily – aided by the new section logo, which was officially launched in January 2021. At this moment in time, subscription to our Twitter account grew from 350 reported in the 2020 annual report to 459, while our Facebook following grew from 500 to 592. These are still relatively modest numbers, and we are aiming to roll out a more coherent strategy in 2022, to strengthen engagement on our social media pages. We are also well positioned to expand our activities beyond these two platforms with demands for more photo and video content prompting the proposed establishment for a YouTube channel, for example. In the upcoming year, we hope to build on these foundations with more intention, having acquired experienced volunteered services to advance our work. Section publicity will also benefit from the proposed African Congress for Conservation Biology, planned for 2022.

Outlook for 2022

In 2022, fund raising will be one of our top priorities. The Section Board hopes to hire an intern that will help with many of the Section's administrative tasks and reduce the workload on its Board. The Board also hopes to generate extra funding to support its bid towards the 4th ACCB and provide scholarships and research grants for members and other African experts, among other membership services.

The Section Board will also produce a new strategic plan for the Section, create a roadmap for new ideas and activities to enhance member services, and also revise the Section's bylaws. The revision of the Section Bylaws is critical to make room for the NGO registration, clear definition of the duties and terms for the Section Board, and also



integrate new developments such as the terms of reference for the Section Policy Committee.

Strategic priority 5: Enhance services to meet current & potential member needs

SCB is a membership-based professional society, therefore membership services are an important part of the Society's mission. This is particularly important for African members and students, many of whom may not afford the membership dues or have great expectations for paid members' benefits. This is one of the reasons the Section's Gmail listserv is open all African conservation experts, regardless of their SCB membership status.

The Section Board held its general meeting during the ICCB. This 2-hour meeting was attended by over 30 people and members contributed very well during the meeting, sharing their thoughts and feedback for the Section Board. Following this general meeting, key alliances and collaborations are being created and new ideas are being explored. The Section Board is grateful to those who could attend the general meeting and their contributions and encouragement.

In 2021, the Section Board, through the e-mentoring programme, organized a 2-part workshop on writing abstracts during the call for ICCB 2021 abstracts. This workshop was organized to increase the chances of acceptance of abstracts from African experts and students. The workshop was attended by over 50 people.

The Section Board also spent over \$1000 to pay for the registrations of 33 African conservation experts to attend the ICCB 2021. Within 36 hours of the call, we received almost 150 applications, but we could only support a small number. Some of the people who received this conference registration grant also helped moderate oral sessions during the congress.

The Section Board wish to reiterate that members who are resident or nationals of qualifying Global South countries can get publication fee waivers for their accepted articles in any of the three SCB journals. This benefit is worth over \$2000 in publication fees that



non-members pay for their publications. This is one of the reasons we encourage members to consider submitting their papers to the SCB journals.

In 2021, the Section Board continues its enduring tradition of circulating news on research grants, funded graduate education and research and job opportunities to members, through the Gmail mailing list and the social media platforms. We have received numerous feedback from members thanking us for sharing such information, which has played important roles in their careers.

Outlook for 2022

In 2021, the Section Board voted to regularize its Young Women in Conservation Biology (YWCB) award to a biennial award in alignment with the SCB Global and regional awards policy. Therefore, the Section Board will be offering the YWCB award in 2022, either during the ACCB 2022 or the African Diaspora Biodiversity Symposium in the United States.

To enhance diversity, equity, inclusion and social justice issues within the SCB Africa Section and its decisions, the Section Board created a new Equity, Diversity, & Inclusion (DEI) Officer position. This position aligns with SCB's global agenda to enhance EDI issues within the Society and conservation science in general. This position will be occupied temporarily by an appointment who will be tasked with developing the portfolio for this office and also creating the Section's first ever EDI policy. Eventually, the position will be filled through an open general election by the end of 2022.

The Section will also focus on creating critical collaborations with other stakeholders in capacity building in African conservation science. These collaborations will build synergies that will benefit SCB members in several areas including professional development and training workshops. These key collaborations are being created as we work towards strengthening and expanding the Section's e-mentoring program.

Furthermore, the Section Board hopes to provide free access to SCB memberships through grants or research funding for students and early career experts, as funding improves. These membership grants will give priority nationals of countries where there is an existing SCB Chapter, as a way to strengthen these Chapters.

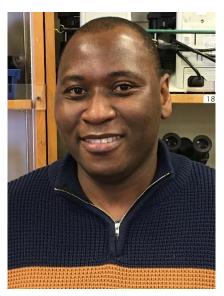


What can you do?

The Section Board, a group of volunteers, cannot do all of these alone; we rely heavily on members' participation and service. We would love for our North American Diasporic members to support the effort and attend the first ever African Diaspora Biodiversity Symposium between July 16-21 in Reno, Nevada. We encourage our experienced members to step up and help mentor the early career and student members, as well as volunteer to organize professional development courses. We need members who have expertise in NGO management and fundraising to contribute leadership in this important area for the Section. YWCB continue to seek members to join and grow their group and contribute to information exchange and peer mentoring. More opportunities will continue to be open through which members can serve the SCB Africa Section and we count on you to step up once you receive such notifications.



Appendix 2 Board of Directors, SCB Africa Section 2021





Israel Borokini

President of the Board of Directors, SCB Africa Section

Israel is a postdoctoral scholar at the University of California, Berkeley and a David H Smith Conservation Research Fellow. He is also a fellow with the current assessment on the Sustainable Use of Wild species of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) of the United Nations. Israel completed his Ph.D. in Ecology, Evolution and Conservation Biology at the University of Nevada, Reno. He also served on the technical expert group on invasive species management for the Convention on Biological Diversity (CBD). His research interests include conservation biogeography, spatial phylogenetics, plant ecology, and ethnobotany.

Badru Mugerwa

President-elect, SCB Africa Section

Badru is PhD candidate at the Technical University of Berlin and Leibniz Institute of Zoo and Wildlife Research. Badru is a founder and director of a Community Based Conservation Organization working with local communities to stop poaching and other threats to wildlife in Uganda. He is also the chair of the African golden cat conservation and working group. His conservation work focuses on the interactions between people and biodiversity. The goal is to understand the threats and identify working community-based threat reduction interventions. Other research interests include ecological modeling, statistics, bush meat poaching, forest degradation, remote sensing and Geographical Information Systems.







Margaret Awuor Owuor

Education and Science Officer

Dr. Margaret Owuor is a National Geographic Explorer and ecologist with a bias for marine and coastal ecosystems. Owuor lectures and heads the Department of Hydrology and Aquatic Sciences at South Eastern Kenya University. Owuor holds a Ph.D in Marine and Coastal Management from the University of Cadiz, Spain. Owuor's research work on mapping and valuation of ecosystem services has also led to her winning grants from different organization like MASMA grant by Western Indian Ocean Marine Science Association, the National Geographic Early Career grant to map the flow of mangrove ecosystem services in Mtwapa Creek and National Geographic Support for Women Grant (Lyda Hill) and WWF Russell E. Train fellowship on Ocean Management to carry out her project on valuation and mapping of mangrove ecosystem services in Mida Creek using the choice experiments and the matrix approach.

Michelle Fasona

Financial Monitoring and Evaluation Officer

Michelle has a Ph.D. in Natural Resources Conservation from the University of Lagos, Nigeria. Her Ph.D. research used the interactive techniques of remote sensing, geographic information system, conservation biogeography and landscape genetics for large mammals in selected forest reserves in South-West, Nigeria.







Tahiana Ramananantoandro

Information Officer

Tahiana is Associate Professor and Deputy Director of the School of Agronomy (ESSA), University of Antananarivo, Madagascar. She is also a visiting Professor at the Ecole Supérieure du Bois in Nantes, France. She obtained her PhD in Process Engineering from the Ecole des Mines of Saint-Etienne, France (2005). Her research activity focuses on tropical timber identification, wood technology and forestry products valorization. Her ultimate goal is to make a significant contribution to the efficient and sustainable use of forest resources in tropical regions.

James Watuwa

Membership and Nominations Officer

Dr. James Watuwa is a wildlife veterinarian and conservationist. He earned his bachelor's degree in veterinary medicine at Makerere University Uganda. He currently works as a zoo veterinarian at the Uganda Wildlife Conservation Education Centre (Entebbe-Zoo), and he is the founder and CEO of Elgon Wildlife Conservation Organization, with a mission to promote biodiversity and wildlife conservation.







Janette Wallis Member-at-large #1 & YWCB Director

Janette is a primatologist whose primary interest is chimpanzees, baboons, and other African primates. She serves as the Editor-in-Chief of the IUCN journal *African Primates* and is Co-Vice Chair of the IUCN SSC Primate Specialist Group's Africa Section. In addition, Janette is a Scientific Advisor for the Plastic Pollution Coalition and serves on the boards of Kids Saving the Rainforest and the Tonkolili Chimpanzee Project. She is the Executive Director of the Kasokwa-Kityedo Forest Project in Uganda, where her research focuses on behavioral ecology of chimpanzees and the various effects of forest fragmentation. She also has an ongoing interest in the topics of primate conservation, disease transmission, and tourism.

Frowin Becker Member-at-large #2 & EID Officer

Frowin is an early career conservation scientist from Namibia, busy completing a PhD in Conservation Biology at the Victoria University of Wellington in New Zealand. Over the years, his research has focused on conservation technology and he is currently concentrating his efforts on using sound (particularly avian sound) to monitor environmental changes. Since 2016, Frowin has been working for the National Geographic Okavango Wilderness as a field technician and data scientist, helping the project collate a biodiversity baseline for the Okavango River basin.





Alain NguteMember-at-large #3 & Student representative

Alain is a PhD candidate based at the Tropical Forests & People Research Centre, University of the Sunshine Coast, Australia. As a fully dedicated member of the long-term, pan-tropical Forest Restoration and Climate Experiment, his research investigates the relationship between liana-tree competition and tropical forest ecosystem function & recovery following disturbances under climate change. He is also long-time serving member of IUCN World Commission on Protected Areas (IUCN WCPA).



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