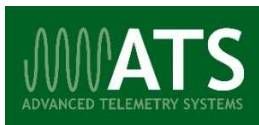




SAVING
OUR SPECIES



Please note that the ESA 2023 program is subject to change without notice.

Sunday 2 July 2023

0900-1700	ESA 2023 Post Graduate Day , CDU Waterfront Campus, Lecture Room 5.03 (\$40 participation fee applies; optional participation)
1200-1700	ESA Executive Planning Day , Darwin Convention Centre, Meeting Room 3
1730-1830	Registration and Welcome Drinks at Darwin Convention Centre (Ground Floor Foyer)
1830-1930	Find the story in your science , Darwin Convention Centre (Meeting Room 3) <i>Kick off your conference early! Come along and listen as eight enthusiastic presenters share their research in a fun and engaging session. Over the past few weeks, these eight presenters have worked with a communication coach to tease out the key messages in their work. This session will showcase the stories they found in their science.</i>

Information for virtual attendees:- all plenary sessions and all concurrent sessions in Auditorium 2 and Waterfront Room 1 will be live-streamed.

Monday 3 July 2023



0630-0815	Bird Watching: Esplanade (Bicentennial Park) <i>Tickets can be purchased - \$15 per person – pre-booking required.</i> Depart Darwin Convention Centre at 0630, or meet at the Darwin Family War Memorial, corner of Esplanade and Herbert street at 0645.
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0900-1030 OPENING PLENARY SESSION

Room	Auditorium 2
Chair	Alan Andersen
0900-0915	Welcome to Country: Dr Aunty Bilawara Lee
0915-0925	Conference Opening: ESA 2023 LOC Chair, Alan Andersen
0925-1000	Keynote Presentation: <i>An ecology of feeling, of being, of hope</i> Professor John Woinarski , Charles Darwin University
Chair	Stephen van Leeuwen
1000-1030	Keynote Presentation: <i>Martuwarra River of Life for All life</i> Professor Anne Poelina , Chair, Martuwarra Council

1030-1100 Morning tea

1100-1300 CONCURRENT SESSIONS

Room	Waterfront Room 1	Waterfront Room 2	Waterfront Room 3	Meeting Room 1	Meeting Room 2
	SYMPOSIUM: Indigenous Ecological Knowledge With thanks to Symposium Sponsors: Atlas of Living Australia and EcOz  	SYMPOSIUM: Transforming fire risk management to improve biodiversity conservation under climate change (1)	SYMPOSIUM: Unravelling the underground: new insights into plant-soil ecology from diverse fields	OPEN FORUM: Invasive species	OPEN FORUM: Ecological monitoring methods 1
Chair	Stephen van Leeuwen	James Barker	Carlos Aguilar	Louis Elliot	Segun Osunkoya
1100-1115	A Deadly Solution: Towards an Indigenous-led bushfood industry La Schaya Body , Australian Tropical Herbarium	Fire Management to Mitigate the Impacts of Large Bushfires on Ecological Values Dr Laurence Berry , Department of Energy, Environment and Climate Action	Embracing fungal multifunctionality Dr Carlos Aguilar-Trigueros , University of Jyväskylä	Buffering vulnerable wildlife from toxic Cane Toads at a landscape scale Dr Georgia Ward-Fear , Macquarie University	Eyes on Recovery: exploring the results of a large-scale camera trap initiative investigating post-fire wildlife recovery in Australia Dr Emma Spencer , WWF - Australia
1115-1130	Näpurru ga larrum naweku warrakangu nalapalmi ga djamarrkuli; Co-adapting fauna survey methods with Indigenous Rangers, Elders and youth Bridget Campbell , Macquarie University	Fire response strategies: groupings to estimate risk to species from fire Renee Woodward , Department of Planning and Environment - Science, Economics and Insights	Heatwaves and drought - How will Arbuscular Mycorrhizal Fungi help conserve our native communities? Shae Jones , University of Wollongong	Untangling the impact of plant invasion in combination with different types of herbivores on plant diversity in grassy woodlands Corinne Schlierenzauer , QUT	The effect of different camera setups on species detectability. Towards optimising camera-trap surveys Dr Doug Mills , NSW National Parks and Wildlife Service

Monday 3 July 2023

1130-1145	<i>Gadji Gadji Garden - Regrowing Traditional Language and Knowledge for plants and animals</i> Nat Raisbeck-Brown , CSIRO	<i>Immediate and long-term responses of native mammals to prescribed fire and invasive predation in fox-baited landscapes</i> Vishnu Ramachandran Menon , University of Melbourne	<i>Could biofertilisers accelerate restoration of degraded soils?</i> Dr Ellen Fry , Edge Hill University	<i>Using spatially explicit models to extract ecological insights for feral buffalo (<i>Bubalus bubalis</i>) management in the Northern Territory</i> Dr Kyana Pike , CSIRO	<i>Using waterbirds to monitor coastal catchment health</i> Claire Willard , James Cook University
1145-1200	<i>Aboriginal Medicinal Plants: Showcasing Indigenous Biocultural Knowledge Through Plants</i> Gerald Turpin , James Cook University	<i>Integrating multiple data sources to inform fire management planning in Victoria</i> Dr Cindy Hauser , Arthur Rylah Institute	<i>Assembling the dream team: Host filtering, not competitive exclusion, drives the assembly of arbuscular mycorrhizal fungi under high phosphorus</i> Dr Adam Frew , Western Sydney University	<i>People, Biodiversity and Urban Reptiles under pressure from Cane Toads</i> Graeme Sawyer , Biodiversitywatch	<i>Winner winner chicken dinner: testing the effectiveness of different lures for detecting spotted-tailed quolls</i> Nicole Lynch , University of Sydney
1200-1215	<i>Impacts of Seventh-day Adventism on Traditional Ecological Knowledge of the Raggiana Bird of Paradise along the Kokoda Track, Papua New Guinea</i> Challis Pulotu , Pacific Adventist University	<i>Long-term monitoring to inform fire management and improve biodiversity conservation</i> Dr Jane Williamson , Department of Planning and Environment	1200-1205 <i>Ecotypic variation in the dual mycorrhizal associations of <i>Melaleuca alternifolia</i></i> Luke Florence , La Trobe University 1205-1210 <i>Making sense of soil health: is microbial trait-based ecology a way forward?</i> Berenice Della Porta , La Trobe University 1210-1215 <i>Go belowground – microbial community in the rhizosphere as driver of plant-plant interactions</i> Wing Man Siu , University of Melbourne	1200-1205 <i>The last refuge: tussock grassland supporting native rodents in the horse dominated Northern Kosciuszko National Park</i> Sally Fuik-Burgemeestre , Deakin University 1205-1210 <i>Evasive invasives? Temporary neophobia of feral cats (<i>Felis catus</i>) towards <i>Felixers</i></i> Ned Ryan-Schofield , University of Adelaide	<i>Using fish earbones to determine birth origin, and guide management decisions related to both stocking programs and other restoration actions</i> Anniq Harris , Arthur Rylah Institute of Environmental Research
1215-1230	<i>The Mayh Recovery Program – two-way ecological monitoring in the Warddeken Indigenous Protected Area</i> Warddeken Rangers , Warddeken Land Management	1215-1220 <i>The Importance of Thermal Refugia for ectotherms under a Changing Climate: Fire-induced Impacts on reptile microhabitats in arid Mallee woodland</i> Max Tibby , The University of New England 1220-1235 <i>Measuring ecosystems for bushfire management: the current state and the next five years of fire ecology for better bushfire management</i> Dr Simon Watson , Department of Energy, Environment and Climate Action		1210-1225 <i>High altitude, groundwater-dependent wetlands are changing through time: insights from a 40 yr study</i> Zac Walker , University of Melbourne 1225-1230 <i>Non-target impacts of lethal control of an invasive mesopredator in a semi-arid mallee environment</i> Rachel Mason , Deakin University	<i>Searching for the Top End's most at risk reptile - the Arnhem Land gorges skink (<i>Bellatorias obiri</i>)</i> Dr Emily Hoffmann , Territory Natural Resource Management; UWA
1230-1245	<i>Doing science the right way: Reflecting on obstacles in our systems to doing right-way science</i> Stephen Brown , Budjiti Aboriginal Corporation	1235-1240 <i>The use of artificial refuges by small vertebrates after prescribed fire</i> Darcy Watchorn , Deakin University 1240-1245 <i>Toward a new tolerable fire interval system for NSW</i> Dr James Barker , NSW Department of Planning and Environment		<i>When the cat's away, the potoroos will play...</i> Dr David Hamilton , Tasmanian Land Conservancy	<i>Evaluation of a multi-method approach for systematically surveying koalas across NSW</i> Dr Graeme Gillespie , NSW Department of Environment and Planning
1245-1300				1245-1250 <i>Collateral damage: epiphytic orchids at risk from myrtle rust</i> Dr Heidi Zimmer , Centre for Australian National Biodiversity Research	<i>ForestGEO in Australia: The Starvation Creek Forest Dynamics Plot</i> Dr Patrick Baker , University of Melbourne

Monday 3 July 2023

1300-1400	Lunch				
1300-1400	Workshop: ALLY Training (Monday session) Facilitated by Leanda Mason Room: Waterfront Room 3				
1400-1530	CONCURRENT SESSIONS				
Room	Waterfront Room 1	Waterfront Room 2	Waterfront Room 3	Meeting Room 1	Meeting Room 2
1400-1530	SYMPOSIUM: Building Cross-cultural Futures Through Healing Country	SYMPOSIUM: Transforming fire risk management to improve biodiversity conservation under climate change (2)	OPEN FORUM: Conservation Biology	OPEN FORUM: Animal behaviour / animal physiology	OPEN FORUM: Ecological monitoring methods 2
Chair	Stephen van Leeuwen	Victoria Reynolds	John Woinarski	Georgia Ward-Fear	Graeme Gillespie
1400-1415	<i>The Wuyagiba Bush Uni: Local Solution for on-Country two-way Higher Education</i> Dr Emilie Ens , Macquarie University	<i>Moving to a risk-based approach: using Bayesian network modelling to create a Fire Risk Estimator for threatened species fire management</i> Dr Victoria Reynolds , Department of Planning and Environment	<i>Delivering incremental benefits for Moreton Bay's migratory shorebirds.</i> Liz Gould , Healthy Land & Water	1400-1405 <i>Fear, flight, and fitness: The adaptive significance of escape response in Hooded Plovers, <i>Thinornis cucullatus cucullatus</i></i> April Timmis , Deakin University 1405-1410 <i>Diving into new waters: quantifying the dive behaviour of short-tailed shearwaters (<i>Ardenna tenuirostris</i>) foraging in southeast Tasmania</i> Olivia Dove , Institute for Marine and Antarctic Studies, University of Tasmania 1410-1415 <i>Using telomeres to investigate physiological stress in free-ranging vertebrates in response to anthropogenically influenced landscapes</i> Natarsha Babic , Monash University	<i>Habitat and detectability of the endangered Condamine earless dragon</i> Laura Harms , The University of Queensland
1415-1430	<i>Indigenous led Data Governance and Djandak Dja Kundjtia (Country Healing its Home)</i> Caitlin Dunolly-Lee , Djandak	<i>Predicting risks to conservation activities by simulating spatial patterns of fire risk with climate change and management</i> Dr Erica Marshall , The University of Melbourne	<i>How does habitat fragmentation influence pollinators and pollination dynamics of native wildflowers?</i> Manuel Sevenello , University of Melbourne	<i>Daily rhythmic behaviour of water buffalo and its effect on their spatial distribution</i> Scott Forrest , Queensland University of Technology	<i>Thermal cameras versus spotlighting: New opportunities for monitoring threatened small endotherms</i> Finella Dawlings , Monash University
1430-1445	<i>Kimberley cross-cultural partnerships to strengthen ecological health and resilience</i> Tom Andrews , Leroy Andrews , Yawuru Rangers, Dr Leigh-Ann Woolley , WWF-Australia	<i>The influence of fire and habitat on mammal distribution and activity in Victoria's mallee region</i> Ange Pestell , Deakin University	<i>Things that go munch in the night: the investigation and emergency management of a novel threat to endangered orchids</i> Erika Roper , NSW Department of Planning and Environment	<i>Increasing hypoxia progressively slows early embryonic development in an oviparous reptile</i> David Adams , Monash University	1430-1435 <i>Spying on phascogales - a how to guide</i> Tessa Manning , University of Adelaide 1435-1440 <i>Recording phenological observations in Eucalyptus species: an approach to capturing intrinsically complex and entangled data</i> Claudia Helena Giraldo Escobar , University of Melbourne 1440-1445 <i>Global review of indicators used in terrestrial ecosystem risk assessments</i> Clare Vernon , Deakin University

Monday 3 July 2023

1445-1500	<i>First Nations peoples and NRM research and implementation on private lands</i> Dr Wesley Ward , Gulbali Research Institute, Charles Sturt University	<i>Comparing How Burn Severity Affects Key Habitat Values in Western Australian Forests using the OzCBI</i> Dr Valerie Densmore , Department of Biodiversity, Conservation & Attractions	<i>Evaluating the recovery potential of threatened ecosystems</i> Javiera Olivares-Rojas , Monash University	<i>Biomarkers reveal the physiological impacts of long-term environmental challenges on a large ectotherm</i> Kaitlin Barham , The University of Queensland	<i>Challenges in measuring progress in the recovery of threatened ecological communities</i> Dr Megan Good , University of Melbourne
1500-1515	<i>Rrambaŋi djäma (working together): a co-designed camera trap network for Yolŋu priority and threatened warrakan (animals) in the Laynhapuy IPA</i> Yirralka Rangers and Dr Shaina Russell , Macquarie University	<i>Biodegradable artificial refuges as a disaster response for wildlife and restoration opportunity</i> Dr Alexandra Carthey , Macquarie University	<i>Towards mapping critical habitat for threatened species</i> Dr Michelle Ward , WWF Australia	<i>Rest for the weary: Baleen whale gene expression and blubber cortisol concentrations reveal reduced physiological stress during COVID-19 restrictions</i> Jacob Linsky , The University of Queensland	1500-1505 <i>Collecting good spatial ecological data in the field using customised smartphone apps</i> Dr Claire Moore , Flinders University 1505-1510 <i>Detecting early warning signs of decline in currently common species for prompt conservation action</i> Dr Holly Sitters , Australian Wildlife Conservancy
1515-1530		1515-1520 <i>Forecasting future fire impacts through demographic modelling</i> Lily Wheeler , The University of Melbourne	1515-1520 <i>Novel ecological impact assessment: Effect of habitat fragmentation and environmental variation on Trillium camschatcense</i> Dr Hiroyuki Yokomizo , National Institute for Environmental Studies 1520-1525 <i>Individual movements and seascape connectivity of threatened sea snake populations</i> Shannon Coppersmith , University of Adelaide Peter Fairweather Award Winner	<i>Intraspecific geographic variation in metabolic rates of a temperate amphibian</i> Sebastian Chekunov , University of Adelaide	1510-1525 <i>Is there a need for horizon scan for new, emerging weeds in Queensland?</i> Dr Olusegun (Segun) Osunkoya , Queensland Department of Agriculture & Fisheries
1530-1600	Afternoon tea				
1600-1730	CONCURRENT SESSIONS				
Room	Waterfront Room 1	Waterfront Room 2	Waterfront Room 3	Meeting Room 1	Meeting Room 2
	SYMPOSIUM: A yarn about Walking Together	SYMPOSIUM: Transforming fire risk management to improve biodiversity conservation under climate change 3	OPEN FORUM: Conservation policy and decision-making 1	OPEN FORUM: Species interactions	OPEN FORUM: Evolutionary biology
Chair	Katharina-Victoria Perez-Hammerle	Andrew Denham	Martine Maron	Kirsti Abbott	Sam Banks
1600-1615	<i>Reconnecting fire culture of Aboriginal communities with contemporary wildfire risk management</i> Amos Atkinson , RMIT	<i>Tropical savanna vegetation trends after a decade of changing climate and regional adaptive management</i> Dr Ian Radford , Department of Biodiversity Conservation and Attractions	<i>Art as Environmental Policy Strategy</i> Dr Tony Meppem , Mud Render Institute	<i>Predicting conservation risks without simplifying complex food-web dynamics</i> Sarah Vollert , Queensland University of Technology	<i>Lifespan and investment strategies in ants: a field and lab study</i> Hannah Riskas , La Trobe University
1615-1630	<i>Walking together: women returning food plants and healing Country</i> Nina Roberts , La Trobe University	<i>Buffel Grass and its place in the changing climate of Arid Australia</i> Michelle Franklin , Weed Management Branch	1615-1620 <i>Modelling for ecological resilience decision making in bushfire management planning: A Victorian perspective</i> Irena Cassettari , DEECA	<i>From threatened to threatening: Impacts of a reintroduced predator on reintroduced prey</i> Ben Stepkovitch , Centre for Ecosystem Science, UNSW	<i>Random mating in a bird species harbouring two lineages with predicted mitonuclear incompatibilities</i> Lana Austin , Monash University

Monday 3 July 2023

			1620-1625 <i>Sneaky Snakes: Using species distribution models in the conservation planning of the endangered floodplain snake - Ngabi (Hemiaspis damelii)</i> Talia Schlen		
1630-1645	<i>"Turtuni sits in Murrukupuni": Using local governance stories to guide decision-making for Murrukupuni (Country), Tiwi Islands, Australia</i> Dr Alana Brekelmans , Deakin University	<i>Fire severity affects mistletoe abundance in Warrumbungle National Park</i> Cameron Kirk , University of Wollongong / Local Land Services	1625-1640 <i>A new method to visualise landscape level ecological connectivity for urban planning</i> Dr Holly Kirk , RMIT University	<i>The critical role of birds as pollinators of Banksia menziesii</i> Dr Siegfried Krauss , Kings Park Science, DBCA	<i>Complex selection processes on invasive crayfish phenotype at the leading-edge of the Zambezi floodplains ecoregion</i> Professor Ryan Wasserman , Rhodes University
1645-1700		<i>Assets of Intergenerational Significance provides for a practical mechanism to ensure environmental values are protected from bushfires</i> Jessica Birrell , NSW National Parks and Wildlife Service	1640-1655 <i>Understanding the policy-related reasons for contemporary deforestation in northern Australia</i> Hannah Thomas , University of Queensland	<i>Carnivorous plants and thieving bugs: the relationship is not exclusive</i> Zoe Bloesch , UNSW	<i>How can we use novel techniques to understand the success of invasive predators in Australian Ecosystems</i> Joshua Gaschk , University of The Sunshine Coast
1700-1715		1700-1730 <i>Australian Megafire Synthesis II</i> Professor Don A. Driscoll , Deakin University	1655-1710 <i>Planning R&D for conservation: an adaptive management problem</i> Luz Pascal , QUT / CSIRO 1710-1725 <i>Impacts on ecosystems by invasive ungulates: a global systematic review and meta-analysis</i> Professor Euan G Ritchie , Deakin University	<i>Wombat burrows are hotspots for small vertebrates in a landscape subject to gigafire</i> Grant Linley , CSU	1700-1705 <i>Omnivore to predator, a dietary shift in an Australian gliding marsupial</i> Meagan Powley , University of Wollongong
1715-1730				<i>Leveraging light to understand forest function</i> Dr Laura Williams , Hawkesbury Institute for The Environment, Western Sydney University	
1730-1800	Queer Mixer Networking event - cash bar available Room: Waterfront Room 1				
1900	DOCUMENTARY AND PANEL DISCUSSION with the Film Director Cathryn Vasseleu, Head of the University of Melbourne TIGRR Lab Prof. Andy Pask, Deakin University Wildlife & Conservation Ecologist Prof. Euan Ritchie and Traditional Owners of Arnhem Rock Art. Facilitated by ABC Darwin. DECK CHAIR CINEMA - Tiger on the Rocks TIGER ON THE ROCKS takes audiences on a journey around Australia, posing questions about the Thylacine's 25 million year old past, when it lived across the continent and showing how Australia's largest surviving marsupial predator co-existed with Australia's First People for many thousands of years. <i>Optional: book directly with Deck Chair via their website. You can purchase Nepalese fusion food and drinks at the venue.</i>				

Tuesday 4 July 2023

0630-0815	Bird Watching: East Point Mangrove boardwalk - \$15 per person pre-booking required. Depart Darwin Convention Centre at 0630 or meet at the Mangrove Boardwalk carpark at the northern end of Lake Alexander at 0645.
0900-1000	PLENARY SESSION
Room	Auditorium 2
Chair	Samantha Lloyd
0900-0930	Keynote Presentation: Biodiversity on the balance sheet - guiding decision making and scaling up of nature finance to fund global restoration targets Dr Rachael Marshall , Accounting for Nature

Tuesday 4 July 2023

0930-1000 [Keynote Presentation: ESA Ecological Impact Award Presentation *Fitness consequences of weakened anti-predator responses: experimental release of havened and non-havened woylies \(Bettongia penicillata ogilbyi\) to inform conservation management*](#) **Natasha Harrison**, University of Western Australia and **Peter Lacey**, Department of Biodiversity, Conservation, and Attractions, Wheatbelt Region

1000-1030 Morning tea

1030-1230 CONCURRENT SESSIONS

Room	Waterfront Room 1	Waterfront Room 2	Waterfront Room 3	Meeting Room 1	Meeting Room 2
	SYMPOSIUM: Practitioner Engagement: Collaborative Research Informing Ecological Management	SYMPOSIUM: Business and Biodiversity 1	SYMPOSIUM: Thinking about human-non-human relationships - what does this mean and why does it matter for ecology? 1	OPEN FORUM: Climate change and extreme events	SYMPOSIUM: Ecosystem Services: concepts, valuation, and applications
Chair	Sacha Jellinek	Sarah Luxton	Euan Ritchie	Susanna Venn	Kamaljit Sangha
1030-1045	<i>Cross-cultural conservation: combining balanda science and Bininj knowledge to protect a threatened Stone Country endemic species</i> Dr Kelly Dixon , Territory Natural Resource Management	<i>Setting the scene: what is the nature-positive economy?</i> Dr Sarah Luxton , CSIRO Environment	<i>Diverse ways of connecting, diverse ways of knowing the more-than-human</i> Dr Rachel Morgain , University of Melbourne	<i>No drought about it: Disturbance impacts body condition</i> Kristina Macdonald , Deakin University	<i>An overview of the symposium and introduction to the common ecosystem services concepts and approaches</i> Dr Kamaljit Sangha , Associate Professor
1045-1100	<i>The first field trial of a novel, biodegradable artificial refuge to assist post-fire mammal recovery</i> Angela Rana , University of Sydney	<i>A nature-positive world is more than the sum of its parts</i> Dr Simon Ferrier , SIRO Environment	<i>Ecology via onto-epistemology</i> Katharina-Victoria Perez-Hammerle	<i>Microclimatic effects on high country pollinators</i> Joshua Coates , Australian National University	<i>People's preference of land uses for ecosystem services and well-being in Bangladesh</i> Dr Ronju Ahammad , Charles Darwin University
1100-1115	<i>Bridging the gap: using people power to provide temporary habitat connectivity in storm damaged forests</i> Dr Jo Isaac , Ecology and Restoration Australia P/L	<i>Nature Positive must not distract from the Mitigation Hierarchy</i> Professor Martine Maron , The University of Queensland	<i>"Divisible Governance: or how environmental regulation is failing us"</i> Dr Kirsty Howey , Environment Centre	<i>Biodiversity trends in South East Queensland – the cooling of a biodiversity hotspot in a heating climate</i> Liz Gould , Healthy Land & Water	1100-1105 <i>Harnessing wild and managed stingless bees as pollinators of crops in the Northern Territory: mango as a case study</i> Dr James Makinson , Hawkesbury Institute for The Environment, Western Sydney University 1105-1110 <i>Environmental Values: underpinning moral philosophies, theories, and concepts</i> Elizabeth Damoah , University of South Australia 1110-1115 <i>Describing a typology of values for nature positive outcomes using IPBES framing</i> Dr Kim Zoeller , CSIRO
1115-1130	<i>1115-1120 Islands in the Stream: using population connectivity modelling to shape impactful conservation strategies for a threatened endemic plant</i> Sabrina Ropiha , Department of Environment, Parks and Water Security, Northern Territory Government	<i>What is a 'financial ESG professional' and how are they responsible for averting biodiversity loss? A trek through corporate lingo, organizational management, and risk appetite</i> Natasha Cadenhead	<i>Creative interventions for cultivating good relations with soil worlds</i> Professor Mindy Blaise , Centre For People, Place, & Planet, Edith Cowan University	<i>Flood impacts on Victorian Native Fish populations</i> Ruby Stoios , Arthur Rylah Institute, Department of Energy, Environment and Climate Action	1115-1120 <i>Linking ecosystem health to ecosystem services: a systematic review at the biome level</i> Michael Traurig , Deakin University 1120-1125 <i>Ecosystem accounting and the need to</i>

Tuesday 4 July 2023

	1120-1125 <i>Managing Koalas during plantation harvest</i> Stacey Harwood , Deakin University				recognise Indigenous perspectives: An example from Yawuru Country Anna Normyle , Australian National University
	1125-1130 speed talk QA				
1130-1145	<i>Diet breadth of a critically endangered owl presents challenges for management</i> Victoria F Sperring , Monash University	<i>Measuring and reporting on corporate nature-related impacts, dependencies, and risks for a nature-positive economy</i> Dr Greg Smith , CSIRO	<i>Weaving knowledge systems to understand, protect and heal Country</i> Oliver Costello	<i>Modelling Long-Term Effects of Climate Change on Coral Reefs</i> Kaitlyn Brown , Queensland University of Technology	
1145-1200	<i>Restore and Renew: Provenancing for restoration based on genetics and climate</i> Karina Guo , RECER / Botanic Gardens of Sydney	<i>Needs and opportunities for biodiversity markets: perspectives on the way forward</i> Dr Anthelia Bond , CSIRO	1145-1230 <i>Facilitated discussion: cultivating connection in ecology and beyond</i> Dr Rachel Morgain , University of Melbourne	<i>Quantifying responses to forest thinning</i> Dr Katinka Ruthrof , Department of Biodiversity, Conservation and Attractions	
1200-1215	<i>Fish use of Tasmanian coastal saltmarsh following invasive <i>Spartina anglica</i> removal</i> Violet Harrison-Day , School of Geography, Planning, and Spatial Sciences, University of Tasmania	<i>Cart before the horse: What are the enabling legislative conditions necessary for effective biodiversity markets?</i> Allana Brown , Environment Centre		<i>Animal population decline and recovery after severe fire: Relating ecological and life history traits with expert estimates of population impacts from the Australian 2019-20 megafires</i> Miki Ensbey , University of Melbourne and Charles Darwin University	
1215-1230		1215-1220 <i>Agribusiness; a key partner in increasing biodiversity above and below ground</i> Dr Samantha Grover , RMIT University		1215-1220 <i>Low recruitment success limits the upward range shift of Snowgum at alpine treeline despite a warming climate and fire disturbance</i> Dr Susanna Venn , Deakin University 1220-1235 <i>Greater gliders out on a limb: using movement to inform conservation</i> Viviana Miritis , The University of Sydney	
1230-1330	Lunch				
1330-1500	PLENARY SESSION				
Room	Auditorium 2				
Chair	Perpetua Turner				
1330-1400	ESA AERA Award Presentation: <i>Transects, trade-offs, teamwork, and tenacity: Survival guide for infusing ecology into policy and management in Queensland</i> – Dr Teresa Eyre				
1400-1430	ESA Gold Medal 2022 Winner Presentation – Professor David Keith , Centre for Ecosystem Science, University of NSW				
1430-1500	ESA Gold Medal 2023 Winner Presentation – Professor Dieter Hochuli , The University of Sydney				
1500-1530	Afternoon tea				
1530-1730	CONCURRENT SESSIONS				
Room	Waterfront Room 1	Waterfront Room 2	Waterfront Room 3	Meeting Room 1	Meeting Room 2
	SYMPOSIUM: Open interoperability frameworks and data management for monitoring biodiversity and the environment to help meet global societal challenges	SYMPOSIUM: Business and Biodiversity 2	SYMPOSIUM: Thinking about human-non-human relationships - what does this mean and why does it matter for ecology? 2	OPEN FORUM: Fire ecology	Early Career Ecologist Pathways Forum
Chair	Siddeswara Guru	Sarah Luxton	Rachel Morgain	Dieter Hochuli	Sam Lloyd and Caragh Threlfall

Tuesday 4 July 2023

1530-1545	<i>The state of threatened reptile and amphibian monitoring in Australia</i> Tayla Lawrie , Terrestrial Ecosystem Research Network, The University of Queensland	<i>Lessons from Australia's carbon market</i> Dr Don Butler , Australian National University	<i>Indigenous Engagement to Support Resilience: A Case Study From Kamilaroi Country (NSW, Australia)</i> Associate Professor Bradley Moggridge , University of Canberra	<i>Fire ecology traits of Australian plants: Creating a database to summarise scientific knowledge about plant response to fire events</i> Dr José Rafael Ferrer-Paris , University of New South Wales	Facilitated by Dr Sam Lloyd and Dr Caragh Threlfall
1545-1600	<i>How to make a sharable code workflow for reproducible and efficient science: Learnings from {galah} and ALA Labs</i> Dr Dax Kellie , Atlas of Living Australia	<i>Boom or bust: Australia's Restoration Economy</i> Professor Owen Nevin , Western Australian Biodiversity Science Institute	<i>Managing urban flying-fox roosts amid ongoing challenges</i> Matthew Mo , NSW Department of Planning and Environment	<i>How does fire management shape vegetation structure along an environmental gradient?</i> Rachel McIntosh , La Trobe University	Panelists: Dr John Morgan , La Trobe University Dr Pep Turner , President, Ecological Society of Australia Dr Sam Lloyd , Queensland Fire and Biodiversity Consortium, Healthy Land and Water
1600-1615	<i>Strategic regional spatial planning for sustainable development of utility-scale solar and wind energy in the Northern Territory</i> Billee McGinley , Charles Darwin University	1600-1605 <i>Making nature count: biodiversity assessment for the nature repair market</i> Dayani Gunawardana , Department of Climate Change, Energy, The Environment and Water	1600-1605 <i>Larrakia-led biodiversity values of Darwin</i> Dr Adam Liedloff , CSIRO 1605-1610 <i>Nature Based Resilience - putting nature at the centre of disaster management</i> Amanda Lamont , Nature Based Resilience 1610-1615 <i>Recreational impacts on Moreton Bay Ramsar Wetland: Awareness raising campaign & an assessment of the public's perception and attitudes</i> Chelsea Kluske , Healthy Land & Water	<i>Resilience of small mammals and reptiles to prescribed burning in a desert ecosystem</i> Dr Tim Doherty , The University of Sydney	Lincoln Kern , Practical Ecology Dr Heather Neilly , Australian Landscape Trust Dr Kirsti Abbott , MAGNT Dr Anna Richards , CSIRO
1615-1630	<i>EcoAssets: streamlining access to data from Australian environmental research infrastructures</i> Dr Shandiya Balasubramaniam , CSIRO	1605-1700 <i>Facilitated Discussion: Business and Biodiversity</i> Dr Sarah Luxton , CSIRO Environment	1615-1620 <i>Comics as a tool for ecological storytelling</i> Dr Caitlyn Forster , The University of Sydney	<i>Stop, drop and get down that hole: Brush-tailed Rock-wallabies surviving megafires</i> Lauren Hook-Walker , Department of Planning and Environment, Biodiversity and Conservation	
1630-1645	<i>Enabling environmental data and services for researchers and decision makers: the Planet Research Data Commons</i> Kerry Levett , Australian Research Data Commons		1620-1700 <i>Facilitated discussion: opening pathways for a more-than-human ecology</i> Dr Rachel Morgain , University of Melbourne	<i>Bat species responses to short interval high severity fires</i> Sandra Penman , The University of Melbourne	
1645-1700	<i>Disentangling the metacommunity processes using species occurrence observations</i> Dr Taku Kadoya , National Institute for Environmental Studies			1645-1650 <i>Post-fire recovery of Mountain Galaxias (Galaxias olidus) in Namadji National Park, ACT</i> Chris Malam , ACT Government 1650-1655 <i>Where there's smoke, there's... bats? Reduced activity of Pilbara Leaf-nosed Bats (Rhinonictis aurantia) following fire in an arid-zone landscape</i> Heather North , GHD	
1700-1715	<i>Developing standards to represent and exchange site-based survey data</i> Dr Siddeswara Guru , University of Queensland				

Tuesday 4 July 2023

1730-1900 [ESA 2023: Barbara Rice Memorial Poster Session](#)

Wednesday 5 July 2023

0630-0815 [Birdwatching - George Brown Botanic Gardens](#) - \$15 per person – pre-booking required. Depart Darwin Convention Centre at 0630 or meet at the the Geranium Street carpark (accessed from Stuart Highway) at 0645.

0900-1000 PLENARY SESSION

Room Auditorium 2

Chair Kirsti Abbott

0900-0930 [Keynote Presentation: Incentivising sustainable fire management in fire-prone savanna landscapes](#) **Professor Jeremy Russell Smith**, Charles Darwin University

0930-1000 [Keynote Presentation: The Australian Ecosystem Models Framework: Harnessing expert knowledge to evaluate landscape change](#) **Dr Anna Richards**, CSIRO

1000-1030 Morning tea

1030-1230 CONCURRENT SESSIONS

Room	Waterfront Room 1	Waterfront Room 2	Waterfront Room 3	Meeting Room 1	Meeting Room 2
	SYMPOSIUM: Fire, biodiversity and ecological function in tropical savannas – insights from field experiments 1	OPEN FORUM	SYMPOSIUM: Detecting and attributing change in Australian vegetation 1	OPEN FORUM: eDNA and genomics	OPEN FOURM: Ecological management and restoration 1
Chair	Alan Andersen	Teigan Cremon	Rachael Gallagher	Paul Nevill	Patricia Werner
1030-1045	1030-1100 <i>The importance of fire in tropical savannas</i> Emeritus Professor William Bond , University of Cape Town	<i>Native wildflower meadows: a new opportunity to reinstate grassy ecosystems on hostile urban sites</i> Katherine Horsfall , University of Melbourne	<i>Generating and testing hypotheses for change in Australian vegetation</i> Professor Belinda Medlyn , Western Sydney University	<i>Taking to the hills: advances in terrestrial eDNA monitoring</i> Dr Erin Hahn , CSIRO	1030-1035 <i>Population genomic diversity and structure in the golden bandicoot: a history of isolation, extirpation, and conservation</i> Kate Rick , The University of Western Australia 1035-1040 <i>Wattle we do about all these weeds? Determining how interactions of co-occurring woody weeds affect restoration plantings</i> Diana Borse , University of Auckland 1040-1045 <i>Helping the Animal Housing Crisis</i> Courtney Morris , University of Adelaide
1045-1100		1045-1050 <i>Bridging the gaps: citizen science is the next frontier for biodiversity research</i> Louis Backstrom , University of Queensland 1050-1055 <i>The Seedling Image Library ID tool; starting with threatened wet sclerophyll forest</i> Ruby Paroissien , University of New South Wales 1055-1100 <i>The influence of disturbance and liana proliferation on invertebrate</i>	<i>Spatio-temporal variability in vegetation facets in southeast Australia highlights the need for refined ecosystem management goals under changing climates</i> Dr Matthew Adeleye , University of Cambridge	<i>Using molecular data to resolve species boundaries in lyrebirds</i> Yasara de Mel , QUT	<i>Surviving in a Changing Landscape: The Effects of Environmental Stress on Eastern Grey Kangaroos</i> Nora Campbell , UNSW

		<i>indicators of rainforest function</i> Charlotte Raven , University of The Sunshine Coast			
1100-1115	<i>Burning for biodiversity in tropical savannas: a long-term field experiment</i> Professor Alan Andersen , Charles Darwin University	<i>Large-scale patterns in Delayed Greening</i> Giancarlo Chiarenza , UNSW Sydney	<i>Written in wood – insights into vegetation change from dendrochronology</i> Professor Pauline Grierson , The University of Western Australia	<i>The use of genetics tools in conservation management applications—a systematic review</i> Dr Maggie Watson , Charles Sturt University	<i>Living in human-modified landscapes narrows the dietary niche of a specialised mammalian scavenger, the Tasmanian devil</i> Anna Lewis , University of New South Wales
1115-1130	<i>Long-term fire regime effects on fine fuel loads and grass species composition in a northern Australian savanna</i> Merinda Day-Smith , La Trobe University	<i>Is there a lizard down that spider burrow? Microhabitat preferences of the endangered pygmy bluetongue (Tiliqua adelaidensis)</i> Kimberley Michael , Flinders University	<i>Historical forestry data offers novel insights into forest responses to climate and fire</i> Dr Patrick Baker , University of Melbourne	<i>Comparing the diets of co-occurring species to assess potential competition using DNA metabarcoding</i> Aurelie Kanishka , Australian National University	<i>Navigating the mining maze: how northern quolls interact with an altered landscape</i> Mitchell Cowan , Charles Sturt University
1130-1145	<i>The tropical savanna fuel load ‘time bomb’ – does it exist?</i> Dr John Morgan , La Trobe University	<i>Modelling environmental responses from the little life in the leaf-litter</i> Tessa Smith , University of Tasmania	<i>Diverging paths of ecosystem greening in Australian terrestrial ecosystems</i> Dr Sami Rifai , University of Adelaide	<i>Monitoring the birds and the bees: Environmental DNA metabarcoding of flowers detects plant-animal interactions</i> Dr Paul Nevill , Curtin University	<i>Land use effects and seasonal changes in bird community assembly across a low-intensity tropical agricultural landscape</i> Biang Syiem , Deakin University
1145-1200	<i>1145-1150 Effects of fire regime on Northern Australian tropical savanna soils: exploring microbial communities and their critical role in carbon cycling</i> Marissa Blunden , La Trobe University <i>1150-1155 Fire regime impacts grass diversity and function in tropical savannas</i> Dr Anna Richards , CSIRO	<i>Whale baleen reveals link between feeding patterns and climate cycles for humpback and southern right whales</i> Adelaide Dedden , University of New South Wales	<i>Attribution of change in riverine leaf area index (LAI) in dryland ecosystems</i> Jake Eckersley , University of Western Australia	<i>Microbial indicators of soil health: temperate to arid Australia</i> Dr Erinne Stirling , CSIRO	<i>Undermining anuran community dynamics: longwall mining exerts community-scale impacts on frog assemblages</i> Samantha Wallace , The University of Newcastle
1200-1215	<i>1155-1230 Facilitated Discussion: Fire, biodiversity and ecological function in tropical savannas – insights from field experiments</i> Professor Alan Andersen , Charles Darwin University	<i>The interactive effect of extreme precipitation, nutrient addition, and grazing on grassland productivity and diversity</i> Elise Verhoeven , The University of Sydney	<i>Satellite-observed shifts in C3/C4 abundance in Australian grasslands are associated with rainfall patterns</i> Dr Qiaoyun Xie , University of Western Australia	<i>Genomics approaches for environmental management: The current state of play</i> Allyson Malpartida , Charles Darwin University	<i>Are lianas preventing rainforest recovery in the Wet Tropics?</i> Emma Mackintosh , University of The Sunshine Coast
1215-1230		<i>Disentangling the direct and indirect effects of fire and livestock grazing on small mammals and reptiles</i> Miranda Rew-Duffy , The University of Queensland	<i>1215-1220 DTC, STS and GEDI-simulations, next generation ecological datasets?</i> Professor Simon Jones , RMIT <i>1220-1225 Up, down, and around: where will alpine species go with climate change?</i> Iris Hickman , La Trobe University	<i>eDNA and Pollinator Invertebrate Communities: An EPIC survey method comparison study</i> Allison Menzies , La Trobe University	<i>1215-1220 Coexistence conservation- can warabin (bush stone curlew) survive beyond the fence?</i> Shoshana Rapley , Australian National University
1230-1235				<i>A review on the Environmental DNA field sampling techniques for terrestrial and semi-aquatic macrofauna</i> Kendrika Gaur , Deakin University	
1230-1330	Lunch				
1330-1500	PLENARY SESSION				

Wednesday 5 July 2023

Room	Auditorium 2				
Chair	Andy Bennett				
1330-1345	ESA President's address, Dr Perpetua Turner				
1345-1400	Jill Landsberg Applied Ecology Scholarship 2022 Presentation - Danielle Wallace				
1400-1405	Jill Landsberg Applied Ecology Scholarship 2023 Winner - Sara Cavalcanti Marques				
1405-1420	ESA 2023 Applied Forest Ecology Scholarship presentation - Oscar Jones				
1420-1435	ESA 2022 Fundamental Ecology Award Presentation - Oliver Aylen				
1435-1500	KEYNOTE PRESENTATION: <i>ESA Next Generation Award Presentation</i> Dr Adam Frew , Western Sydney University				
1500-1530	Afternoon tea				
1530-1730	CONCURRENT SESSIONS				
Room	Waterfront Room 1	Waterfront Room 2	Waterfront Room 3	Meeting Room 1	Meeting Room 2
	SYMPOSIUM: Fire, biodiversity and ecological function in tropical savannas – insights from field experiments 2	SYMPOSIUM: Enhancing drone-based capabilities for improving conservation, management, monitoring and FAIR data	SYMPOSIUM: Detecting and attributing change in Australian vegetation 2	OPEN FORUM: Functional traits and Disease	OPEN FORUM: Urban ecology and seed biology
Chair	John Morgan	Tim Brown	Laura Williams	Mark Westoby	Sandra Penman
1530-1545	<i>Fire and space: Fire driven spatial patterns of trees in Australian tropical savannas</i> Dr Hari Paramjyothi , Supervising Scientist Branch, Department of Climate Change, Energy, the Environment and Water	<i>Edge effects, tammar wallabies and kangaroos: Precise distribution modelling from airborne thermal technology</i> Dr Mark Lethbridge , Ecoknowledge	<i>Ecological consequences of the loss of traditional Aboriginal fire management on the Arnhem Plateau using multiple lines of evidence</i> Professor David Bowman , University of Tasmania	<i>Quantifying plant functional traits and life strategies of Australian annual species to inform green roof plant selection</i> Zahra Saraeian , University of Melbourne	<i>Investigating the effect of artificial lighting on insectivorous bats in Brisbane</i> Rani Davis , The University of Queensland
1545-1600	<i>Termites, tree hollows and long-term fire regimes in Top End savannas</i> Ellen Rochelmeyer , Charles Darwin University	<i>Drones; Opportunities and Barriers to their use in Conservation and Environmental Management</i> Sophie Walker , James Cook University	<i>Attributing forest change – ecology, remote sensing, and geophysics</i> Dr Gavan McGrath , Department of Biodiversity Conservation and Attractions	<i>Linking functional traits to lifetime demographic performance in a diverse annual plant community</i> Alexandra Catling , The University of Queensland	<i>The insectivorous microbats of Adelaide, South Australia</i> Harry Rust , Faunatech
1600-1615	<i>Internal stem damage in tropical Australian savanna trees significantly reduces biomass</i> Abbey Yatsko , University of Miami	<i>Findable, Accessible, Interoperable, Reusable: National Research Infrastructure can enable rapid development of solutions for ecology, carbon drawdown and biodiversity preservation</i> Dr Timothy Brown , Australian Plant Phenomics Facility, ANU Node	<i>Combining disparate data and multiple forms of knowledge to monitor ecosystems</i> Alys Young , Deakin University	<i>Towards a unified theory in Microbial Community Ecology</i> Dr Jen Wood , La Trobe University	1600-1605 <i>Exploring Spontaneous and Precarious Urban Ecosystems</i> Professor Dieter Hochuli , The University of Sydney 1605-1610 <i>Investigating the complex germination requirements and seed dormancy of the nationally threatened Kakadu Hibiscus</i> Amelia Stevens , National Seed Bank, Australian National Botanic Gardens 1610-1615 <i>Happy as a frog in pondwater: Habitat characteristics that promote diversity of threatened frog species in urban Australia</i> Britt Mitchell , UNSW Sydney

Wednesday 5 July 2023

1615-1630	<i>The effects of fire on ants in an Australian tropical savanna vary according to the vertical stratum they live in</i> François Brassard , Charles Darwin University	<i>Remote orange hawkweed flower detection using deep learning methods: challenges and lessons learned</i> Dr Remy Dehaan , Charles Sturt University	1615-1620 <i>Effect of drought on ecosystem gross primary productivity under different climate gradients across Australia</i> Huanhuan Wang , University of Technology Sydney 1620-1625 <i>Investigating opposing gradients in competition and stress along the NATT: impacts on savanna productivity</i> Prashant Paudel , Western Sydney University 1625-1630 <i>An introduction to Fowlers Gap and long term monitoring plans</i> Dr Hedley Grantham , UNSW	<i>Form versus function trade-offs in leaf venation networks</i> Ilaire Silveira Matos , University of California at Berkeley	<i>Homing pythons? Do relocated carpet pythons return to residential capture sites?</i> Jessica Sabatino , University of New England
1630-1645	<i>Lizard responses to experimental fire regimes in an Australian tropical savanna</i> Angga Rachmansah , Research Institute for the Environment and Livelihoods, Charles Darwin University	<i>Drone thermal imaging and machine learning for kangaroo population monitoring</i> Dr Lachlan Howell , Deakin University	<i>Linking remotely-sensed 3D-structural vegetation data to Forest and Biodiversity frameworks: using Ozius Biome to support nature-based solutions at scale</i> Alisa Starkey , Ozius	<i>Phylogenetically conservative trait correlation: quantification and interpretation</i> Professor Emeritus Mark Westoby , Macquarie University	<i>Seed banking is more applicable to the preservation of tropical montane flora than previously assumed: a cloud forest case study</i> Dr Gemma Hoyle , National Seed Bank, Australian National Botanic Gardens
1645-1700	1645-1650 <i>Hop, hop, and away: behavioural responses of magnificent tree frogs (<i>Litoria splendida</i>) to the olfactory and auditory cues of fire</i> Levi Brown , Macquarie University 1650-1705 <i>45 years of the Solar Village Project, a community science experiment of fire exclusion, reforestation and biodiversity stewardship</i> Liam Golding , Solar Village	1645-1715 <i>DISCUSSION: Enhancing drone-based capabilities for improving conservation, management, monitoring and FAIR data</i> Dr Timothy Brown , Australian Plant Phenomics Facility, ANU Node	<i>A new approach to monitor changes in carbon stocks following restoration of woodlands and shrublands across Australia's rangelands</i> Dr Jacqueline England , CSIRO	1645-1650 <i>Assessing which traits are important for reducing uncertainty in the plant model</i> Fiona Robinson , UNSW 1650-1705 <i>Eco-epidemiology of Beak and Feather Disease Virus in wild parrots of southern Australia</i> Professor Andy Bennett , University of Melbourne	<i>Species' probability of occurrence does not reflect environmental signals associated with seed germination in a Mediterranean woodland in Western Australia</i> Isis Arend Da Silva , The University of Queensland
1700-1715	1705-1720 <i>Facilitated Discussion: Fire, biodiversity and ecological function in tropical savannas – insights from field experiments</i> Dr John Morgan , La Trobe University		<i>What tools are available to build ecosystem-level state and transition models in Australia?</i> Dr James Furlaud , CSIRO	1705-1720 <i>Fleas, trypanosomes and sympatric Australian mammals: exploring the role of ectoparasite assemblages in Australian disease ecology</i> Chloe McAuley , Charles Sturt University	<i>Serotinous species display varying germination strategies and responses to recurrent fire</i> Ella Plumanns Pouton , University of Melbourne
1715-1730				1720-1735 <i>A dynamic geospatial model of habitat suitability for Japanese encephalitis virus in Australia</i> Professor Nick Golding , Telethon Kids Institute and Curtin University	1715-1720 <i>Cracking the code: Seed chemistry in physically dormant seeds</i> Sarah McInnes , The University of New South Wales
1730-1745				1735-1740 <i>Avoidance of environmental chytrid by green and golden bell frogs</i> Madeleine Holmes , Macquarie University	

Wednesday 5 July 2023

1800	<p>CONFERENCE DINNER, Museum and Art Gallery of the Northern Territory (Gardens), 19 Conacher Street, Darwin</p> <p><i>Tickets can be purchased via the conference registration site. Coaches depart Darwin Convention Centre from 5:30pm</i></p> <p>Join us for the Conference Dinner. A relaxed opportunity to network or just meet up with old and new friends over a meal and drinks. After dinner a cash bar will be available.</p>
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Thursday 6 July 2023

0630-0815 [Birdwatching - Darwin International Airport \(Gurambai Trail\)](#) - \$15 per person – pre-booking required. Depart Darwin Convention Centre at 0630 or meet at the carpark along Sir Norman Brearley Drive at 0645.

0900-1000 PLENARY SESSION

Room	Auditorium 2
Chair	Nigel Andrew
0900-0930	NZ Te Tohu Taiao Award Presentation: Building transdisciplinary across the biological invasion continuum: a role for One Biosecurity Professor Philip Hulme , Lincoln University
0930-1000	Keynote Presentation: Ecology of arid Australia: some answers, many questions Dr Steve Morton , Charles Darwin University

1000-1030 Morning tea

1030-1230 CONCURRENT SESSIONS

Room	Waterfront Room 1	Waterfront Room 2	Waterfront Room 3	Meeting Room 1	Meeting Room 2
	SYMPOSIUM: Fire, biodiversity and ecological function in tropical savannas – insights from field experiments 3	SYMPOSIUM: Putting the floristics back into vegetation	OPEN FORUM: Conservation policy and decision-making 2	OPEN FORUM: Ecological management and restoration 2	OPEN FORUM
Chair	Anna Richards	Donna Lewis	Simon Ferrier	Pat Taggart	Allyson Malpartida
1030-1045	<i>Native mammal populations on the Tiwi Islands: what have we learnt so far?</i> Dr Hugh Davies , Charles Darwin University	<i>An Australian Alien Flora Standardised System (AAFSS) to facilitate management and decision making on biological invasions and biosecurity</i> Dr Irene Martin-Fores , Tern / The University of Adelaide	<i>Protected, cleared, or at risk: the fate of plant species ranges in the Australian environment</i> Associate Professor Rachael Gallagher , Hawkesbury Institute for The Environment, Western Sydney University	<i>LiDAR reveals old growth conservation is sensitive to rule-based definition and spatial patterns in old growth trees</i> Dr Raphael Trouve , The University of Melbourne	<i>Prediction and Protection of Re-emerging GAB Springs</i> Roxane Blackley , Desert Channels Queensland
1045-1100	<i>Using terrestrial laser scanning to quantify fire-induced changes to woodland structure and its impact on tropical savanna biodiversity</i> Dr Alyson Stobo-Wilson , CSIRO	<i>Putting ecology back into vegetation classification and mapping</i> Professor David Keith , Centre for Ecosystem Science, University of NSW	<i>Leadership for Good: Universities' Role in Biodiversity Management</i> Dr Eliza Middleton , The University of Sydney	<i>'Branching' with woody debris as a multipurpose restoration tool; improving soil and vegetation and creating habitat for fauna</i> Dr Heather Neilly , Calperum Station - Australian Landscape Trust	<i>Revegetated areas lack structural diversity compared to remnant areas: lessons for restoration practice</i> Dr Sacha Jellinek , University of Melbourne
1100-1115	1100-1105 <i>Understanding spatial population dynamics and small mammal population persistence in fire-prone landscapes on the Tiwi Islands</i> Professor Sam Banks 1105-1120 <i>Tiwi Fire Experiment: Does density differ?</i> Georgina Neave , Charles Darwin University	<i>National Vegetation Information System: a nationally consistent framework and future delivery of national vegetation data</i> Wes Davidson , Department of Climate Change, Energy, the Environment and Water	<i>Accounting for Australia's terrestrial threatened species – estimating recent change in habitat provision</i> Dr Kate Giljohann , CSIRO	<i>Climbing plant ecology, exploration of a problem they pose, and proposal of a cost-effective and climate-change mitigating solution</i> Professor Francis Putz , University of The Sunshine Coast	1100-1105 <i>Intersectional identities and barriers in ecological practices</i> Dr Leanda Mason , Curtin University 1105-1110 <i>Identifying the mechanistic underpinnings of heat adaptation in Themeda triandra</i> Dr Vinod Jacob , Western Sydney University 1110-1115 <i>Nest site fidelity in Australian Pelicans</i> Dr John Porter , NSW Department of Planning & Environment
1115-1130	1120-1125 <i>The use of spatial metrics in fire</i>	<i>The art of the possible: integrated vegetation classification and</i>	<i>Beyond the headline: roles of the IUCN Red List of Ecosystems across the Kunming-Montreal</i>	<i>The community composition of woodland birds in agricultural landscapes in south-east</i>	<i>Growth and survival of termite-hollowed trees decrease with degree of piping, contrary to</i>

Thursday 6 July 2023

	ecology Alex Carey , Charles Darwin University	mapping for NSW Daniel Connolly , NSW Department of Planning and Environment	Global Biodiversity Framework Professor Emily Nicholson , The University of Melbourne	Australia: trends and responses to restoration over 20-years Dr Caroline Wilson , Birdlife Australia	commonly-held belief that termites benefit host trees Professor Patricia Werner , Australian National University
1130-1145	1125-1140 <i>Fire and Food: Dietary response of three mammals to fire in tropical savanna</i> Dr Teigan Cremona , Charles Darwin University	<i>The Territory's regional ecosystem and landscape mapping program: considerations for classifying an ecological map</i> Dominique Lynch , Northern Territory Government	<i>Making decisions in biodiversity conservation management: a threatened species case study</i> Dr Caroline Chong , Department of Environment, Parks and Water Security, Northern Territory Government	<i>Fencing and revegetating around farm dams increases bird species richness and breeding activity</i> David Smith , Sustainable Farms, Fenner School of Environment and Society, Australian National University	<i>The importance of arid zone waterholes for terrestrial wildlife in a warming world</i> Professor Jenny Davis , Charles Darwin University
1145-1200	1140-1155 <i>Where there's smoke there's cats: long unburnt habitat is crucial to mitigating the impacts of cats on the Greater Bilby</i> Harry Moore , Department of Biodiversity, Conservation and Attractions 1155-1200 <i>Ecological prioritisation framework for fire managers: a Kimberley example</i> Dr Skye Cameron , Australian Wildlife Conservancy	<i>The Northern Territory vegetation macrogroups: adding value to Australia's major vegetation groups and state typologies</i> Dr Donna Lewis , Terrestrial Ecosystem Research Network	<i>An update on the Victorian Biodiversity Index (VBX) and gap analysis for Victoria</i> Dr Emily McColl-Gausden , The University of Melbourne	<i>A decade of demographic monitoring resolves factors affecting survival and recruitment in terrestrial orchid translocations</i> Dr Noushka Reiter , Royal Botanic Gardens Victoria	<i>Increasing knowledge of one of the most spectacular marine invertebrates' gathering</i> Dr Elodie Camprasse , Deakin University
1200-1215	<i>A conceptual framework and practical environmental accounting method to monitor condition in the Australian savanna biome</i> Gabrielle Davidson , Landscape Ecological Services		<i>A Mixed Method Habitat Suitability framework to inform Queensland Threatened Species legislative trigger maps</i> Stephen Trent , Queensland Department of Environment and Science	<i>Long-term monitoring of gas infrastructure development impacts on a population of the greater bilby at Davenport Downs in south-western Queensland</i> Dr Simon Hodgkison , GHD Pty Ltd	1200-1205 <i>Great knot gut microbes greatly differ among individuals and after long-distance migration</i> Dr Chava Weitzman , Charles Darwin University 1205-1210 <i>COVID-19 lockdowns reveal the impact of jumping crocodile tours</i> Dr Cameron Baker , Charles Darwin University 1210-1225 <i>Long-term monitoring of invasive species dynamics along and adjacent forest roads in protected conservation areas within Southeast Queensland</i> Dr Michael Ngugi , Queensland Herbarium and Biodiversity Science
1215-1230	<i>Facilitated Discussion: Fire, biodiversity and ecological function in tropical savannas – insights from field experiments</i> Dr Anna Richards , CSIRO			<i>Optimising predator baiting through a meta-analytic approach</i> Dr Pat Taggart , Bush Heritage Australia	
1225-1230	Quick refresh break				
1230-1315	ESA 2023 CLOSING SESSION				
	Announcement of Prizes and Awards Closing Remarks				
1315-1415	LUNCH				

1430-1630	WORKSHOPS					
Room	Waterfront Room 1	Waterfront Room 2	Waterfront Room 3	Meeting Room 1	Meeting Room 2	Meeting Room 3
1430-1630	Workshop: Writing for Publication	Workshop: Using the 'galah' R package to source open biodiversity data	Workshop: A Beginner's Guide to Data Analysis and Visualisation in Python for Ecologists using EcoCommons' Coding Cloud	Workshop: Introduction to Kaleidoscope Pro for Acoustic Analysis	Workshop: Australian Vegetation Classification	Workshop: ALLY Training (Thursday session)
1445-1630	Workshop: Top End Invertebrate Blitz! Held at MAGNT; Facilitated by Nick Volpe and Lucyna Kania. Coach departs Darwin Convention Centre at 2:30pm					
1715-1830	Book Launch: Field Guide to the Reptiles of the Northern Territory by Chris Jolly, Brendan Schembri & Stewart MacDonald <i>Facilitated panel discussion and QA with authors. Purchase the book at the launch.</i> Venue: MAGNT, Bullocky Point. Just near Mindil Beach Markets.					

Friday 7 July 2023

0630-0845	Birdwatching - Muirhead Bushland - <i>\$15 per person – pre-booking required</i> Depart Darwin Convention Centre at 0630 or meet at the pathway entrance along Lee Point Road, next to the communication tower at 0645.
0900-1500	Field Trip: Pudukul Cultural Tour <i>\$190 per person – pre-booking required</i> Coach departs Darwin Convention Centre at 0900
0830-1130	Field Trip: Introduction to Nature Journaling at Binybara Lee Point Coach departs Darwin Convention Centre at 0900
0830-1130	Field Trip: Macrophotography
0830-1700	Field Trip: Territory Wildlife Park Coach departs Darwin Convention Centre at 0900
1400-1600	Field Trip: Museum and Art Gallery of the Northern Territory (MAGNT)