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AUTHOR BIOGRAPHIES

Stuart Bunn is the Director of the Australian Rivers Institute at Griffith University in Brisbane and Deputy Director of the Tropical Rivers and Coastal Knowledge research consortium. His major research interests are in the ecology of river and wetland systems with a particular focus on the science to underpin river protection and restoration, including the assessment of environmental flows and aquatic ecosystem health.

Andrew Brooks is a Senior Research Fellow in the Australian Rivers Institute. His research interests are centred around geomorphological processes responsible for determining the nature of river channels such as erosion processes, riparian controls and rehabilitation and restoration of stream channels.

Michele Burford is an Associate Professor and research scientist at the Australian Rivers Institute, Griffith University. She is interested in understanding the factors promoting algal productivity and the flow-on effects through food webs. She has over 50 scientific publications which examine a range of marine, estuarine and freshwater systems.

Damien Burrows is the Director of the Australian Centre for Tropical Freshwater Research at James Cook University. He has spent 20 years studying freshwater and estuarine ecosystems and catchment management in the tropics. He has also worked extensively with government, community and industry on a range of applied topics in northern Australia, producing >200 publications and technical reports.

Paul Close is a Research Fellow at the University of Western Australia, Centre of Excellence in Natural Resource Management. He is interested in the ecological response to threatening processes and particularly the effects of habitat degradation and flow alteration on freshwater and estuarine fish communities. He is currently a member of the Tropical Rivers and Coastal Knowledge research program investigating methods for the assessment of river and wetland health.

Ben Cook is a Postdoctoral Research Fellow at the Australian Rivers Institute, Griffith University. He is currently involved with the Tropical Rivers and Coastal Knowledge programs using molecular approaches to study freshwater biodiversity patterns in northern Australia. His research interests include freshwater phylogeography, landscape genetics and conservation biology.

Peter Davies is the Director of the Centre of Excellence in Natural Resource Management at the University of Western Australia. He is a freshwater ecologist with a particular interest in river restoration and the translation of research outcomes into practical on-ground works.

Ian Dixon is a former Research Fellow at Charles Darwin University where he developed and applied methods for assessing riparian condition across northern Australia. His research has contributed to several regional and national riparian assessment methods that are now used widely by land and water managers. His interests also lie in aquatic ecology and the relationships between catchment land use and riverine health.

Peter Dostine is an ecologist at the Aquatic Health Unit of the NT Dept of Natural Resources, Environment, the Arts and Sport with nearly 30 years experience in freshwater and terrestrial systems in northern Australia. His research interests include the ecology and conservation of wetland and grassland birds, with a particular interest in the spatial ecology of granivorous birds.

Michael Douglas is Professor and Director of the Tropical Rivers and Coastal Knowledge research consortium and is based at Charles Darwin University. His research interests are broadly centred on the role of science in aiding sustainable management of northern Australia's aquatic ecosystems and have included research on the impact of fire on stream ecosystems, weeds and the top-down control of aquatic assemblages and food web structure.

Erica Garcia is a Senior Research Fellow with the Tropical Rivers and Coastal Knowledge research hub at Charles Darwin University. Much of her current research examines the relative importance of different ecological processes (e.g top-down, bottom-up, cross-ecosystem interactions and subsidies) in structuring aquatic food webs.

Arthur Georges has had a long-standing fascination for freshwater turtles. He and his students have published over 70 papers and book chapters on their physiology, ecology, systematics and evolution. Much of his focus has been in northern Australia, first working with the Messel-Webb team in the early 1970's in Arnhem Land, later on the Daly River with a focus on the pig-nosed turtle. He is currently with the Institute for Applied Ecology at the University of Canberra.

Stephen Hamilton is a professor at Michigan State University (USA) who has spent two study leaves working with the Australian Rivers Institute. In addition to studying river systems of northern Australia and Cooper Creek, he has worked extensively on tropical floodplains of South America. Biogeochemistry, food webs, and linkages between hydrology and ecology are frequent topics of his research. In Michigan he also works on stream and wetland nutrient cycles and on agricultural ecology.

Virgilio Hermoso is a Postdoctoral Research Fellow at the Australian Rivers Institute, Griffith University. His current research is focused on the adaptation of systematic conservation and rehabilitation planning to protect freshwater ecosystems. He has also worked on the evaluation of the role of different drivers of freshwater biodiversity loss in Mediterranean rivers and the development of bioassessment programs.

Jane Hughes is a Professor at Griffith University, a senior member of the Australian Rivers Institute, Griffith University and program leader within the Tropical Rivers and Coastal Knowledge consortium. She is interested in understanding the genetic basis of biodiversity, the factors determining the distribution of species across the landscape and how the management of aquatic resources can be improved by the incorporation of information concerning evolutionary processes.

Chris Humphrey is a freshwater ecologist who has most of his research career investigating tropical streams of northern Australia. He has developed environmental monitoring programs used to assess human impacts on streams and has been involved in national and international river health and remediation programs. He is the author of recent revisions to Australia's water quality guidelines.

Sue Jackson is a Senior Research Scientist with CSIRO Sustainable Ecosystems in Darwin. Sue is a geographer with expertise in the fields of Indigenous natural resource management, social impact assessment and environmental planning. She leads a multi-disciplinary team investigating socio-economic values relating to water, primarily those held by Indigenous people, and their successful incorporation into resource management frameworks. Sue is a member of the TRaCK Research Executive Committee.

Tim Jardine is a Research Fellow at the Australian Rivers Institute, Griffith University. He completed his Ph.D. in 2009 at the University of New Brunswick, St John, Canada, on the source and fate of mercury in rivers. He currently applies stable isotope techniques to the study of river food webs in northern Australia.

Mark Kennard is a Senior Research Fellow in the Australian Rivers Institute. His research interests include freshwater fish ecology and its relationship to flow regime, the use of fish as indicators of ecosystem health and the identification and management of high conservation value aquatic ecosystems.

Peter Kyne is a Research Associate with the Tropical Rivers and Coastal Knowledge research hub at Charles Darwin University. He has an interest in the ecology of the northern Australian bird fauna, particularly in relation to riparian environments. Peter has a research background in the biology of sharks and their relatives and a keen interest in those species found in the freshwater environments of the north.

Silva Larson is a Research Scientist with CSIRO in Townsville. She is a Registered Environmental Impact Assessment Practitioner with more than 20 years of world-wide experience in environmental, social, strategic, sustainability and vulnerability assessments. Silva's main interest is in human wellbeing, and she is currently exploring human wellbeing as a potential indicator of regional prosperity and development.

Jon Olley is Professor of Water Science in the Australian Rivers Institute where he undertakes research into the way in which land use and climate alter channel morphology and sediment production in Australian rivers and catchments and a range of other geomorphological issues.

Colton Perna is a PhD candidate at the Australian Rivers Institute, Griffith University. He has worked at the Australian Centre for Tropical Freshwater Research for the past 10 years focusing mainly of freshwater fish biodiversity across tropical Australian rivers. He has undertaken research on fish habitat restoration in the extensive wetlands of the Burdekin River.

Neil Pettit is a Research Fellow at The University of Western Australia, Centre of Excellence in Natural Resource Management. Over the last 20 years Neil has worked on various aspects of catchment processes and river ecology throughout Australia and overseas, with a special interest in the ecology of riparian vegetation. He is currently a member of the TRaCK research programme investigating northern aquatic food-webs and river-floodplain interactions.

Brad Pusey is a Senior Research Fellow with the Australian Rivers Institute at Griffith University interested in the ways in which the distribution, ecology and evolution of freshwater fish help to inform about the way in which tropical rivers function. The majority of his research career has been undertaken in tropical and subtropical regions of Australia.

Samantha Setterfield is an Associate Professor in the Research Institute of the Environment and Livelihoods, Charles Darwin University. Her research focus is the impact of weeds and changed fire regimes on tropical savanna and wetland communities, particularly developing innovative techniques to predict and mitigate the risk of invasive grasses.

Jeff Shellberg is a PhD candidate within the Australian Rivers Institute. His thesis is concerned with the way in which human land use in the Mitchell River has altered gully erosion processes and sediment production and influenced channel morphology.

John Spencer is a Research Assistant in the Australian Rivers Institute where he is involved in the application of remote sensing and Geographic Information Systems (GIS) in the study of fluvial geomorphology, erosion and sediment transport processes in Australian rivers.

Natalie Stoeckl is an Associate Professor of Economics at James Cook University. She holds a BEc from the Australian National University (ANU), a MEc from JCU and a PhD from ANU and has spent almost two decades investigating economic aspects of environmental/natural resource management and regional/rural development in Northern Australia.

Ken Tews is a Research Assistant in the Australian Rivers Institute where he is involved combining laboratory analysis and specialist instrument operation and GIS to understand wind erosion processes and dust storm mapping.

Simon Townsend is a Research Fellow with Charles Darwin University and has lived and undertaken research in the tropics for most of his working life. His research interests are phytoplankton and benthic algal ecology, primary production, water quality, river health assessment, and the inclusion of monitoring in adaptive natural resource management.

Doug Ward is a Senior Research Fellow at the Australian Rivers Institute. His research interests are centred around the application of remote sensing, GIS and spatial modelling to provide insights into fields as diverse as eco-hydrology, aquatic and landscape ecology, spatial and temporal dynamics of aquatic systems and conservation science.

Danielle Warfe is a Research Fellow at Charles Darwin University. Her career has focussed on understanding aquatic food web structure and trophic interactions, the role of physical habitat and flow-ecology relationships of the aquatic biota of riverine systems, and the translation of this research into informed water management and planning.

Dave Wilson developed Australia's largest freshwater public aquarium in the early 1990's and continues to investigate the use of native water plants as aquarium subjects. He now runs an aquaculture business encouraging people to consider and use native fishes, crustaceans and plants as aquarium subjects and works toward getting better integration of the aquarium trade and government in issues of the security of exotic aquatics species.