



2017 WAMSI RESEARCH CONFERENCE

Kimberley Marine Research Program

Program

Tuesday 28th – Wednesday 29th November 2017
State Library of Western Australia, Perth

Day 1 – Tuesday, 28 November

Session 1, Chair: Luke Twomey, WAMSI		
Opening and keynote presentations		
P/P	Presentation	Speaker
9:00	Introduction and Welcome to Country.	Dr Len Collard
9:15	<u>Opening Address</u>	Chris Tallentire MLA Parliamentary Secretary to the Minister for Water; Fisheries; Forestry; Innovation and ICT; Science
9:35	WAMSI – Delivering research priorities for WA	Dr. Luke Twomey, WAMSI General Manager
9:50	<u>Keynote Presentation – The importance of science for conservation management</u>	Professor Chris Doepel PSM, Deputy Chair Conservation Commission
10:15	Morning Tea	
Session 2		
The Kimberley Marine Research Program		
Chair: Stuart Field, DBCA		
11:00	Kimberley Node Overview	Stuart Field, WAMSI and DBCA
11:20	Living on the Edge: Understanding the adaption and acclimation of nearshore turbid-zone corals to extreme environmental conditions	Mick O'Leary, Curtin
11:40	Physical drivers of reefs in the Kimberley	Ryan Lowe, UWA
12:00	Kimberley seabed biodiversity	Karen Miller, AIMS
12:30	Lunch	

Session 3		
Productivity in the Kimberley		
Chair: Kelly Waples, DBCA		
13:30	Reef production and nutrient uptake	Renee Gruber, UWA
13:40	Benthic primary productivity: production and herbivory of seagrasses, macroalgae and microalgae	Gary Kendrick, UWA
13:55	The magnitude and importance of herbivory in the Kimberley	Gary Kendrick, UWA
14:05	Remote Sensing	Peter Fearn, Curtin
14:25	Afternoon Tea	
Session 4		
Ecological processes of the Kimberley		
Chair: Stuart Field, DBCA		
15:20	Recruitment and herbivory in the southern Kimberley	Martial Depczynski, AIMS
15:40	Going with the flow: genomic insights into ecological connectivity in the Kimberley	Oliver Berry, CSIRO
16:00	Historical reconstructions of water quality in the Kimberley using sediment records	John Keesing, CSIRO
16:20	Climate change as registered by Sr/Ca, Li/Mg, $\delta^{11}\text{B}$ and B/Ca systematics in an ~100-year old Porites coral from the thermally extreme Kimberley region of northwestern Australia	Malcolm McCulloch, UWA
16:35	Heat tolerance of Kimberley corals and impacts of the 2016 marine heatwave on coral reefs in the inshore Kimberley region	Verena Schoepf, UWA

Day 2 – Wednesday, 29th November 2017

Session 1 Best practice indigenous engagement for healthy country management Chair: Stuart Field, DBCA		
9:00	Invited Speaker – People and Saltwater Country in the Kimberley	Dean Mathews, Yawuru and Albert Wiggin, Nyul Nyul
9:15	Using a Multiple Evidence Based approach to mobilise Indigenous knowledge and science	Beau Austin, CDU
9:25	Invited speakers – Working together on country for healthy country and MPA management	Darren Stevens, DBCA and Dean Mathews, Yawuru
9:40	Integrating Indigenous knowledge and survey techniques to develop a baseline for dugong management in the Kimberley	Peter Bayliss, CSIRO
10:00	A Regional Framework for Saltwater Monitoring in the Kimberley	Rebecca Dobbs, UWA and Albert Wiggin, Nyul Nyul
10:15	Morning Tea	
Session 2 Marine fauna of the Kimberley Chair: Kelly Waples, DBCA		
10:45	Key biological indices required to understand and manage nesting sea turtles along the Kimberley coast	Scott Whiting, DBCA
11:05	Modelling the spatial distribution of humpback whales in the Kimberley region of Western Australia	Michele Thums, AIMS
11:25	Relative abundance, population genetic structure and passive acoustic monitoring of Australian snubfin and humpback dolphins in regions within the Kimberley	Josh Smith, Murdoch/Simon Allen UWA, Chandra Salgado Kent, Curtin
11:45	Saltwater crocodiles in the Kimberley	Danny Barrow, DBCA
12:00	Lunch	
Session 3 Physical and biological processes and what we have learned from modelling Chair: Stuart Field, DBCA		
13:00	What is modelling and why do we care?	Matt Hipsey, UWA and Fabio Boschetti, CSIRO
13:20	Physical oceanographic dynamics in the Kimberley	Greg Ivey, UWA
13:35	Terrestrial-Ocean Linkages: the role of rivers and estuaries in sustaining marine productivity in the Kimberley	Nicole Jones, UWA and Andrew Revill, CSIRO
13:50	Biogeochemistry	Matt Hipsey, UWA

14:05	Opposite polarities of ENSO drive distinct patterns of coral bleaching potentials off WA coast	Ming Feng, CSIRO
14:20	Knowledge Integration and Management Strategy Evaluation (MSE) Modelling	Fabio Boschetti, CSIRO
14:40	Afternoon Tea	
Session 4 Science for ongoing management – how will we use what we have learned Chair: Luke Twomey, WAMSI		
15:10	Invited Speaker: Kimberley Marine Protected Areas	Kathleen Lowry, DBCA
15:25	Using social values to inform marine spatial planning	Jennifer Munro, DBCA
15:45	Is the Kimberley coast still a pristine wilderness?	Lynnath Beckley, Murdoch
16:00	Research and monitoring in the Kimberley – setting priorities for the future	Tom Holmes, DBCA
16:15	Navigating knowledge currents in Kimberley Saltwater Country	Dean Mathews, Yawuru and Albert Wiggin, Nyul Nyul
16:30	Creating a data legacy: WAMSI Data Management	Luke Edwards, WAMSI
16:40	Collaborating in science into the future	Patrick Seares, OEPA
	Closing Remarks and Close of Conference	Luke Twomey, WAMSI

