



Conference Program

* indicates student presentations eligible for awards

Sunday 16th July

17:00 Registration opens. Reef HQ Aquaria

18:30 – 20:30 Welcome Function – Reef HQ Aquaria

Monday 17th July

TIME	
07:30	Registration opens
08:30	Conference opening – Chair Dr Andrew Hoey Welcome to Country – Sam Savage, Bindal people Dr Andrew Hoey, ACRS President
	Opening keynote address. Prof Terry Hughes, COE, Reef Studies, JCU Global warming transforms coral assemblages on the Great Barrier Reef

9:30 – 10:00 MORNING TEA				
	Raffles	Savoy	Kingston	Portside
	Crown of thorns seastars Chair: Morgan Pratchett	Feeding on the reef Chair: Daniella Ceccarelli	Reef building, evolution and the importance of crustose coralline algae Chair: Guillermo Diaz-Pulido	Monitoring Chair: Tom Bridge
10:00	Ciemon Frank Caballes and Morgan Pratchett * Temporal variability in gametogenesis and reproductive behavior of crown-of-thorns starfish in the northern Great Barrier Reef, Australia	Owen Coffee, Colin Limpus, Hannah Thomas, Janet Lanyon and David Booth * Contrasting dietary composition and habitat use across age classes of a green turtle (<i>Chelonia mydas</i>) population in a central Queensland foraging ground	Patrick Gartrell and Guillermo Diaz-Pulido * Coral-algae competition in a subtropical reef: a functional-form approach	Maarten De Brauwer, Jean-Paul Hobbs, Rohani Ambo-Rappe, Jamaluddin Jompa, Euan Harvey and Jennifer McIlwain * Biofluorescence as a survey tool for cryptic marine species
10:15	Jennifer Christina Wilmes, Samuel Matthews, Daniel Schultz, Vanessa Messmer, Andrew Hoey and Morgan Pratchett * Modelling growth of juvenile crown-of-thorns starfish on the northern Great Barrier Reef	Laura Rix, Jasper M. de Goeij, Dick van Oevelen, Ulrich Struck, Fuad Al-Horani, Christian Wild and Malik S. Naumann A trophic link between corals and sponge-associated fauna via the sponge loop	Alexandra Ordonez and Guillermo Diaz-Pulido Spatial and temporal patterns of recruitment and reproduction, and stock-recruitment relationship of crustose coralline algae on Heron Island-GBR	Russell Babcock, Karl Forcey, Joe Turner and Melanie Trapon Starbug-X: a Compact Autonomous Underwater Vehicle applied to surveys of deepwater reefs at Ningaloo

<p>10:30</p>	<p>Vanessa Messmer and Morgan Pratchett</p> <p>The role of sublethal predation on crown-of-thorns starfish populations</p>	<p>Luke A. Morris, Sabrina L. Rosset, Adam J. Reed, Cecilia D'Angelo and Jörg Wiedenmann *</p> <p>The impact of heterotrophic feeding on the physiology of the coral host and associated symbiont in contrasting dissolved</p>	<p>Stephanie Duce, Belinda Dechnik, Jody Webster, Ana Vila-Concejo, Quan Hua, James Sadler, Gregory Webb, Luke Nothdurft, Marcos Salas-Saavedra, Jian-Xin Zhao and Sarah Hamylton</p> <p>Let's get physical! Waves, currents and fore reef evolution</p>	<p>Eva Kovacs, Chris Roelfsema, Kathryn Markey, Stuart Phinn, Petra Lundgrun, Manueal Gonzalez-Rivero, Alberto Rodriguez-Ramirez, Oscar Beijbom, Javier Leon, Daniel Harris, Renata Ferrari and William Figueira</p> <p>What is the benefit of using geo-located photographs of submerged habitats?</p>
<p>10:45</p>	<p>Karlo Hock, Scott Condie, Rebecca Gorton, Yves-Marie Bozec, Juan Ortiz, Nicholas Wolff, Christopher Doropoulos, Chris Roelfsema, Petra Lundgren and Prof Peter J. Mumby</p> <p>Developing regional management strategies from the coupled coral and crown-of-thorns starfish (CoTS) connectivity models on the Great Barrier Reef</p>	<p>Victor Huertas and David Bellwood *</p> <p>Mucus-secreting lips: An unusual adaptation in coral-feeding reef fishes</p>	<p>Merinda Nash, Guillermo Diaz-Pulido and Jodie Bradby</p> <p>Gemstone-tough algal-armour shields coral reefs – how a unique biomineral composite underpins reef structures</p>	<p>Dominic Bryant, Alberto Rodriguez-Ramirez, Stuart Phinn, Manuel González-rivero, Kristen Brown, Benjamin Neal, Ove Hoegh-Guldberg and Sophie Dove *</p> <p>Comparison of methodologies for collecting and analysing the condition of coral reef ecosystems</p>
<p>11:00</p>	<p>Yves-Marie Bozec, Karlo Hock, Juan Carlos Ortiz, Mark Baird, Kenneth Anthony, Chris Roelfsema, Petra Lundgren and Peter Mumby</p> <p>Integrating the impacts of water quality and crown-of-thorns outbreaks into reef management: a modelling approach</p>	<p>Tessa N. Hempson, Nicholas A.J. Graham, M. Aaron MacNeil, Andrew S. Hoey and Glenn R. Almany *</p> <p>Trophodynamics in novel coral reef ecosystems</p>	<p>Damian Thomson, Mick Haywood, Cindy Bessey and Anna Cresswell</p> <p>Carbonate production and bioerosion at Ningaloo Reef, Western Australia; the first two years of the Ningaloo Outlook Shallow Reefs project</p>	<p>Discussion</p>

11:15	<p>Mary Bonin, Karen Chong-Seng, Vicki Bonanno, Fred Nucifora, Roger Beeden, David Wachenfeld, Richard Quincey, Sarah Salmon, Sascha Taylor, Suzanne Long, Sheriden Morris, Col McKenzie and Steve Moon</p> <p>Starfish wars: managing outbreaks of crown-of-thorns starfish on the Great Barrier Reef</p>	<p>Discussion</p>	<p>Josh Wodak</p> <p>The life (and death) aquatic: Conservation biology and environmental engineering in artificial coral reefs</p>	
11:30	<p>Discussion</p>		<p>Discussion</p>	
12:00 – 13:00	<p>LUNCH</p>			
	<p>Raffles</p>	<p>Savoy</p>	<p>Kingston</p>	<p>Portside</p>
	<p>Coral bleaching Chair: Jessica Stella</p>	<p>Biogeography and regional trends Chair: Selina Ward</p>	<p>Anthropogenic environmental effects on fish Chair: Bjorn Illing</p>	<p>Monitoring Chair: Laurence McCook</p>
13:00	<p>Farhan Rizwi, Mark Baird, Elisa Elofer, Marion Mengin, Mike Herzfeld and Mathieu Mongin</p> <p>High resolution reef maps of thermal stress on corals in the GBR using eReefs' RECOM</p>	<p>Michael McWilliam, Mia Hoogenboom, Terry Hughes, Andrew Baird and Chao-Yang Kuo</p> <p>Regional differences in the diversity and redundancy of coral functional roles *</p>	<p>Sofia Jain-Schlaepfer, Eric Fakan, Stephen Simpson and Mark McCormick *</p> <p>Managing noise stress in fish embryos: Fish embryos show stress responses to recreational boat noise that differ with engine type</p>	<p>Maria Zann and Mike Ronan</p> <p>Incorporating coral into the tidal tapestry: classification, typology and mapping of the intertidal and subtidal benthic habitats of the Wide Bay / Great Sandy region</p>

<p>13:15</p>	<p>Craig Steinberg, Hemerson Tonin, Mike Herzfeld, Jessica Benthuyesen, Scott Bainbridge, William Skirving, Scott Heron, Claire Spillman, Tristan Simpson, Rachel Pears, Eduardo Klein Salas, Chaojiao Sun, Neal Cantin and Richard Brinkman</p> <p>A Torres Strait and Northern Great Barrier Reef persistent thermal refugia from mass coral bleaching</p>	<p>Mathieu Mongin, Mark Baird, Emlyn Jones, Roger Scott, Nugzar Margvelashvili, Barbara Robson, Jenny Skerratt, Karen Wild-Allen, Monika Wozniak, Thomas Schroeder and Cedric Robillot</p> <p>The biogeochemical state of the Great Barrier Reef (2013-2016): results from a re-analysis using the eReefs model constrained by ocean colour</p>	<p>Cassandra Thompson *</p> <p>The decline in abundance and diversity of <i>Chaetodon</i> butterflyfish and effects on sociality due to coral loss</p>	<p>Scott Heron, Jacqueline De La Cour, Erick Geiger, Andrea Gomez, Gang Liu, Ben Marsh, William Skirving, Alan Strong, Kyle Tirak and Mark Eakin</p> <p>Additions and improvements to NOAA Coral Reef Watch monitoring and prediction</p>
<p>13:30</p>	<p>Neal Cantin, Craig Steinberg, Scott Heron, Rachel Pears, Will Skirving, Claire Spillman, Scott Bainbridge, Jessica Stella, Mathieu Mongin, Mark Baird, Michelle Jonker and Britta Schaffelke</p> <p>A re-assessment of summer thresholds of heat stress in a warming ocean following repetitive annual widespread bleaching on the Great Barrier Reef</p>	<p>Jessica Benthuyesen and Miles Furnas</p> <p>Intrusive upwelling in the Central Great Barrier Reef</p>	<p>Martin Hing, Marian Wong and Selma Klanten *</p> <p>Into the storm – The effects of multiple cyclone impacts on the social organisation of habitat specialist coral reef fish</p>	<p>Chris Roelfsema, Eva Kovacs, Stuart Phinn, Juan Ortiz, Yves Marie Bozec, Nicholas Wolff, Marji Puotinen, Karlo Hock, Prof Peter J. Mumby, David Callaghan, Mike Ronan, Sarah Hamylton and Magnus Wettle</p> <p>How much coral habitat is there on the Great Barrier Reef (GBR)? An ecological modelling and remote sensing journey</p>
<p>13:45</p>	<p>Daniel Harrison</p> <p>Regional marine cloud brightening for bleaching mitigation on coral reefs</p>	<p>Juan Ortiz, Yves-Marie Bozec, Karlo Hock, Mark Baird, Ken Anthony, Petra Lundgren, Chris Roelfsema and Peter J. Mumby</p> <p>The effect of changes in coral demographic rates on the recovery of inshore vs offshore GBR reefs</p>	<p>Heather Veilleux, Taewoo Ryu, Jennifer Donelson, Philip Munday and Timothy Ravasi</p> <p>The epigenome: molecular mechanisms for transgenerational acclimation to ocean warming in a tropical reef fish</p>	<p>Karen Chong-Seng, April Burt, Nancy Bunbury, Morgan Pratchett and Frauke Fleisher-Dogley</p> <p>Assessing Aldabra's coral reefs: insights from managing a remote world heritage site</p>

14:00	<p>Mark Baird, Mathieu Mongin, Malin Gustafsson, Peter Ralph, Line Bay, Katharina Fabricius and Neal Cantin</p> <p>Modelling photoinhibition-driven thermal bleaching in Scleractinian coral as a function of light, temperature, and heterotrophy</p>	<p>Alana Grech, Emmanuel Hanert, Len McKenzie, Michael Rasheed, Michelle Waycott, Jolan Wolter and Rob Coles</p> <p>Cumulative effect of multiple impacts on seagrass connectivity in the Great Barrier Reef</p>	<p>Jennifer Donelson, Rebecca Fox, Patrick Monarca and Andrew Hoey</p> <p>You can't always get what you want: the relationship between habitat temperature, thermal preference and actual thermal experience of mobile coral reef fishes</p>	Discussion
14:15	Discussion	Discussion	Discussion	
14:30 – 15:00	AFTERNOON TEA			
	Raffles	Savoy	Kingston	Portside
	<p>Ocean acidification Chair: Neal Cantin</p>	<p>Assessing impacts on reef habitats Chair: Roger Beeden</p>		<p>Conservation – fish and marine reserves Chair: Mike Emslie</p>
15:00	<p>Laura Stoltenberg, Kai Schulz, Tyler Cyronak and Bradley Eyre</p> <p style="text-align: right;">*</p> <p>Temporal variations in sediment dissolution rates under ambient and elevated pCO₂ in a shallow coral reef lagoon</p>	<p>Laura E. Richardson, Nicholas A.J. Graham and Andrew S. Hoey</p> <p style="text-align: right;">*</p> <p>Cross-scale habitat structure driven by coral species composition on tropical reefs</p>		<p>Eva McClure, Garry Russ, Andrew Hoey and Rene Abesamis</p> <p>Characteristics of Philippine no-take marine reserve reef communities under varying anthropogenic and environmental influence</p>
15:15	<p>Joy Smith, Mathieu Mongin, Angus Thompson, Hugh Sweatman and Katharina Fabricius</p> <p>Large-scale trends in carbonate chemistry impact reef ecosystems across the Great Barrier Reef</p>	<p>Daniel Harris, Alessio Rovere, Hannah Power, Elisa Casella, Remy Canavesio, Antoine Collin, Andrew Pomeroy, Jody Webster and Valeriano Parravicini</p> <p>Healthy coral communities may insure coastal protection by coral reefs under future sea level rise</p>		<p>Edmond Sacre, Bob Pressey, Rebecca Weeks and Michael Bode</p> <p style="text-align: right;">*</p> <p>Protect the far and safe or the near and threatened? Measuring the impact of reactive and proactive conservation strategies on the coral reefs of Micronesia</p>

15:30	<p>Katharina Fabricius, Sam Noonan, David Abrego, Lindsay Harrington and Glenn De'Ath</p> <p>Recruitment success as bottleneck for coral communities under ocean acidification</p>	<p>Blake Ramsby, Mia Hoogenboom, Steve Whalan, Nicole Webster and Angus Thompson *</p> <p>A decadal analysis of bioeroding sponge cover on the inshore Great Barrier Reef</p>		<p>Emmanuel Mbaru, Nick Graham, Josh Cinner and Tim McClanahan *</p> <p>Ecological implications of a conservation innovation: How do escape slot traps alter the selectivity and climate sensitivity of coral reef fisheries?</p>
15:45	<p>Guillermo Diaz-Pulido, Mark Hay, Carlos Del Monaco and Cristina Barron</p> <p>Chemical interactions between seaweeds and corals and influence of ocean acidification</p>	<p>Rachel Pears, Jessica Stella, Jen Dryden and Mark Read</p> <p>Overview of 2016/2017 multiple impacts on the Great Barrier Reef</p>		<p>Daniela Ceccarelli, David Williamson, Richard Evans, Geoffrey Jones and Garry Russ</p> <p>A tale of three island groups: how do MPAs perform under natural and human pressure?</p>
16:00	<p>Emma Kennedy and Guillermo Diaz-Pulido</p> <p>Coralline algae calcification as a resilience indicator for ocean acidification impacts on the GBR</p>	<p>Discussion</p>		<p>Discussion</p>
16:15	<p>Discussion</p>			

16:30 Panel presentation and discussion on Reef Resilience Summit

Chair:

Dr David Wachenfeld

Dr Mark Read

Dr Roger Beeden

17:30	POSTER SESSION	
	Helping people to understand coral reefs can enhance conservation	Maxwell Beeden, Roger Beeden and Anya Beeden
	Dissecting the establishment of the symbiotic partnership between algae and animals that powers coral reefs	Giada Tortorelli, Madeleine J H van Oppen, Simon K Davy and Geoffrey I McFadden *
	Highly autotrophic coral reef flats and seagrass habitat in Saipan Lagoon, Commonwealth of the Northern Mariana Islands and Heron Island, southern Great Barrier Reef	Denise Perez, Stuart Phinn, Chris Roelfsema, Emily Shaw, Lyza Johnston and John Iguel *
	Seasonal variation of zooplankton nutritional quality at Manta Ray (<i>Manta alfredi</i>) feeding grounds	Alexandra Thornton *
	Predation pressure of butterflyfish on coral communities may decrease under ocean acidification	Tessa Hill, Mia Hoogenboom and Sue-Ann Watson *
	Monitoring reef Manta Ray (<i>Manta alfredi</i>) cleaning behaviour using 360-degree remote underwater video	Tarryn Coward, Mike van Keulen and Frazer McGregor *
	The Great Barrier Reef during the Last Interglacial: integrating new coralgal assemblage and geochronological evidence from One Tree Reef	Madhavi A. Patterson, Kelsey L. Sanborn, Jody M. Webster, Juan C. Braga, Gregory E. Webb, Jian-Xin Zhao, Belinda Dechnik, Luke Nothdurft, Richard Murphy, Willem Renema, Marc Humblet and Trevor Graham *

	Coral larval dispersal patterns in the Pilbara Western Australia; are we getting any better at predicting recruitment sources and sinks?	Damian Thomson, Russ Babcock, Fabio Boschetti and Ming Feng
	Dimethylsulphoniopropionate (DMSP) production in coral-associated bacteria	Felicity Kuek, Jean-Baptiste Raina, Cherie Motti, Aurelie Moya, David Miller and David Bourne *
19.30	Dangerous Song Blue performance – Raffles Room	



Tuesday 18th July

TIME				
07:30	Registration opens			
08:30	Keynote address – Dr Britta Schaffelke Water quality in the Great Barrier Reef: pressures, consequences and future challenges Chair: Russ Babcock			
	Raffles	Savoy	Kingston	Portside
	Ecology and evolution Chair: Jennifer Donelson	Physiological responses of reef animals Chair: Andrew Chin	Ocean acidification – mitigation and adaptation Chair: Selina Ward	
09:05	Samuel Payet, Jp Hobbs, Joseph Dibattista, Tane Sinclair-Taylor, Hugo Harrison, Michael Berumen and Jennifer McIlwain * Hybridisation between reef fish in the east Indian Ocean and implications for evolution	Audrey Schlaff, Michelle Heupel, Vinay Udyawer and Colin Simpfendorfer * Biological and environmental effects on activity space of a common reef shark on an inshore reef	Ellie Bergstrom, Cintia Martins, João Silva and Paulo Horta * Seagrasses may mitigate negative effects of ocean acidification for calcifying algae	
09:20	Peter Cowman, Valeriano Parravicini, Michel Kulbicki and Sergio Floeter Temporal patterns of endemism and provinciality in tropical reef fishes	Tiffany Nay, Connor Gervais, Gillian Renshaw, Jacob Johansen, John Steffensen and Jodie Rummer * Too hot to handle? Using movement to mitigate exposure to elevated temperatures in a benthic elasmobranch, <i>Hemiscyllium ocellatum</i>	Lei Jiang and Hui Huang * Brooded <i>Pocillopora damicornis</i> larvae may benefit from future increases in temperature and pCO ₂ : implications for local acclimatization	

9.35 – 10:00 MORNING TEA				
	Raffles	Savoy	Kingston	Port
	Ecology and evolution Chair: Jennifer Donelson	Physiological responses of reef animals Chair: Andrew Chin	Reproduction and recruitment Chair: Line Bay	Regulators discussion panel Chair: Merinda Nash
10:00	John Choat and Kendall Clements Parrotfish: Born in disturbance, flourishing in adversity	Ian Bouyoucos, Ornella Weideli, Colin Simpfendorfer, Serge Planes and Jodie Rummer * Dead tired: Temperature resilience but prolonged recovery upon exhaustive exercise in newborn blacktip reef sharks (<i>Carcharhinus melanopterus</i>)	Mariana Alvarez-Noriega, Andrew Baird, Dornelas Maria, Joshua Madin, Vivian Cumbo and Sean Connolly * Fecundity and the demographic strategies of coral morphologies	Representatives from agencies involved in regulating the Great Barrier Reef and its catchments will give short introductions then contribute to a discussion around regulations. Members of the panel include: Moderator – Dr Merinda Nash, Commonwealth Department of Environment and Energy (DEE)
10:15	Anna Cresswell, Damian Thomson and Michael Renton * Three-dimensional coral reefs: what are the morphological superior competitors of the future?	Leteisha Prescott, Tiffany Nay, Bridie Allan and Jodie Rummer Phenotypic plasticity at the gills of coral reef fishes in response to increased temperatures during a coral bleaching event	Alyson Kuba, Joana Figueiredo and Saki Harii * Consequences of thermal stress on and beyond coral reproduction	Liz McMillan, DEE James Barker, DEE Kirsten Dobbs, GBRMPA
10:30	Christopher Hemingson and David Bellwood * Biogeographic patterns in major marine realms: function not taxonomy unites fish assemblages in reef, seagrass and mangrove systems	Yim Ling Mak Physiological and behavioural impacts of Pacific ciguatoxin-1 (P-CTX-1) on marine medaka (<i>Oryzias melastigma</i>): Implications on integrity of coral reef ecosystems	Luis Gomez-Lemos, Christopher Doropoulos, Elisa Bayraktarov, Anthony Carroll and Guillermo Diaz-Pulido * Novel coral settlement inducer compounds from crustose coralline algae	Louise Smyth, Department Environment, Heritage and Protection, Qld Ryan Turner, Paddock to reef, Department of Science, Information Technology and Innovation

10:45	<p>Matheus Athayde, Ove Hoegh-Guldberg, Selina Ward and Sophie Dove *</p> <p>Calcification and production in two populations of <i>Porites cylindrica</i>: impact of reciprocal translocation</p>	<p>Kristy Potgieter, Ian Bouyoucos, Colin A. Simpfendorfer and Jodie L. Rummer *</p> <p>Using blood chemistry to understand the physiological stress response in reef sharks following exhaustive exercise</p>	<p>Carrie Sims, Eugenia Sampayo and John Pandolfi *</p> <p>Presence of an adult influences coral recruitment success</p>
11:00	<p>Paloma Matis, Rebecca Fox, Andrew Hoey and David Booth *</p> <p>Latitudinal variation in behavioural patterns and social group structure of coral reef fishes</p>	<p>Josephine Nielsen, Carly Kenkel, David Bourne and Line Bay *</p> <p>Too hot or too cold – Linking the thermal spectrum and physiological response of <i>Acropora millepora</i></p>	<p>Mikaela Nordborg, Florita Flores, Diane Brinkman, Susana Agusti and Andrew Negri *</p> <p>The phototoxic effects of hydrocarbon fuels on coral larval settlement</p>
11:15	<p>Saskia Jurriaans *</p> <p>Variation in coral thermal performance along a latitudinal gradient on the Great Barrier Reef</p>	<p>Jessica Stella and Geoffrey Jones</p> <p>Does moderate disturbance to coral habitat promote invertebrate biodiversity on tropical reefs?</p>	<p>Kerry Cameron, Dexter Dela Cruz and Peter Harrison *</p> <p>Restoring corals on degraded reefs with enhanced supply of larvae</p>
11:30	Discussion	Discussion	Discussion
12:00 – 13:00	LUNCH		
13:00	<p>Keynote address – Prof Nick Graham, Lancaster University, Lessons on coral reef devastation, reorganisation, and management from East Africa Chair: Jennifer Donelson</p>		

	Raffles	Savoy	Kingston	Portside
	Conservation and reefs Chair: Chris Roelfsema	Ocean acidification – behaviour and physiology Chair: Andrew Hoey	Reef disturbance and recovery Chair: Stephanie Duce	Microbial communities of reefs Chair: David Bourne
13:30	Andreas Dietzel, Michael Bode and Terry Hughes * Global census population size estimates of Indo-Pacific corals	Kelly Hannan and Jodie Rummer * Oxygen transport strategies in coral reef fishes under elevated CO ₂ conditions, do they take after their ancestors?	Mike Emslie, Murray Logan, Alistair Cheal, Kerryn Johns, Michelle Jonker, Ian Miller, Kate Osborne and Hugh Sweatman Recovery of the Great Barrier Reef?	Stephanie Gardner, Jean-Baptiste Raina, Matthew Nitschke, Bonnie Laverock, Cherie Motti, Peter Ralph and Katherina Petrou * Sniffing out the secrets of the sea: dimethylsulphoniopropionate (DMSP) in the coral microbiome
13:45	Danielle Asson, Bob Pressey, Sean Connolly and Tom Bridge * Using generalized dissimilarity modeling to reclassify the bioregions of the Great Barrier Reef	Taryn Laubenstein, Jodie Rummer, Mark McCormick and Philip Munday * A trade-off between behavioral and physiological performance could limit adaptation to the combined effects of warming and ocean acidification in a reef fish	Chao-Yang Kuo, Andrew H. Baird, Paul A. Marshall, Morgan S. Pratchett and Joshua S. Madin * Fifteen years of changes in the abundance of corals on inshore reefs in the Central Great Barrier Reef: a test of adaptive strategy theory	Ole Brodnicke, Bette Willis, David Bourne, Scott Heron, Rachel Pears and Jessica Stella * Unravelling the links between thermal stress, bleaching and disease: Fate of tabular corals following a combined disease and bleaching event
14:00	Tristan Simpson Torres Strait long term coral reef monitoring project	Maureen Ho and Robert Carpenter * Interactive effects of ocean acidification and temperature on metabolic rates of non-calcifying macroalgae in Moorea, French Polynesia	Marine Gouezo, Yimnang Golbuu, Katharina Fabricius, Victor Nestor, Dawnette Odsulong and Christopher Doropoulos * Long-term spatial dynamics and recovery process of coral reef communities in Palau, Micronesia	David Bourne, Steven Robbins, Cheong Chan, Hua Ying, Petra Lundgren, Madeleine van Oppen, David Miller, Mark Ragan, Ove Hoegh-Guldberg, Gene Tyson, Christian Voolstra, Ira Cooke, Anna Fitzgerald and Sylvain Foret The hologenome of the reef building coral <i>Porites lutea</i> : a platform for understanding coral resilience

14:15	<p>Tom Bridge, Osmar Luiz, Chao-Yang Kuo, Kristin Precoda, Elizabeth Madin, Josh Madin and Andrew Baird</p> <p>Do life history traits support conservation status assessments in reef corals?</p>	<p>Blake Spady, Philip Munday and Sue-Ann Watson *</p> <p>Projected near-future CO₂ levels alter cephalopod behaviours and physiology</p>	<p>Samuel Matthews and Camille Mellin *</p> <p>Roads to recovery: a temporally and spatially explicit model of coral resilience on the Great Barrier Reef</p>	<p>Samantha Goyen, Emma Camp, Lisa Fujise, Matthew Nitschke and David Suggett *</p> <p>Seasonal regulation of scleractinian coral microbiomes from southerly high latitude reefs of eastern Australia</p>
14:30	Discussion	Discussion	Discussion	Discussion
15:00 – 15:30	AFTERNOON TEA			
	Raffles	Savoy	Kingston	Port
	<p>Management overview Chair: Petra Lundgren</p>	<p>Effects of environmental conditions on coral growth Chair:</p>	<p>Conservation and fish Chair: Vanessa Messmer</p>	<p>Symbiodinium Chair: Emma Kennedy</p>
15:30	<p>Petra Lundgren, Ken Anthony, Mark Baird, Yves Marie Bozec, Scott Condie, Karlo Hock, Eric Lawrey, Peter Mumby, Juan Carlos Ortiz and Chris Roelfsema</p> <p>Delivering a reef resilience plan for the Great Barrier Reef</p>	<p>Stephanie Diperna, Katharina Fabricius, Mia Hoogenboom and Sam Noonan *</p> <p>Effects of short-term variable light on photoacclimation, net photosynthetic production and growth potential of the reef corals <i>Pachyseris speciosa</i> and <i>Acropora millepora</i></p>	<p>Bjoern Illing and Jodie L. Rummer</p> <p>How physiology can support the management and conservation of coral reef fishes</p>	<p>Daniel A Nielsen, Katherina Petrou and Ruth D Gates</p> <p>Coral bleaching from a single cell perspective</p>

<p>15:45</p>	<p>Laurence McCook, Hui Huang, Jiansheng Lian, Xinming Lei, Xiubao Li, Zhu Chen and Guifang Xue</p> <p>Best-practice coral reef management, from the Great Barrier Reef to the coastal reefs of the South China Sea: challenges & opportunities...</p>	<p>Rene van der Zande, Michelle Achlatis, Dorothea Bender, Andreas Kubicek, Sophie Dove and Ove Hoegh-Guldberg *</p> <p>Finding the sweet range: Intermediate levels of diurnal and seasonal environmental variability yield faster coral growth rates</p>	<p>Jessica Zamborain Mason, Garry R. Russ, Abner A. Bucol, Rene A. Abesamis and Sean R. Connolly *</p> <p>Metapopulation persistence from a network approach: letting the fish return home</p>	<p>Kate Quigley, Line Bay and Bette Willis</p> <p>Geographic variation in free-living <i>Symbiodinium</i> communities across a temperature and water quality gradient</p>
<p>16:00</p>	<p>Roger Beeden, Fergus Molloy, Katherine Martin, Patricia Clive, Anna Dowd, Carol Marshall, Bronwyn Houlden and Polly Blayden</p> <p>Reef GPS: integrated monitoring enables resilience-based management of the Great Barrier Reef Marine Park</p>	<p>Line Bay, Rachel Wright, Hanaka Mera, Carly Kenkel and Mikhail Matz</p> <p><i>Acropora millepora</i>— an evolutionary jack-of-all-trades and a master-of-all under near future climate change conditions</p>	<p>Andrew Chin, Colin Simpfendorfer, Jon Day, Jessica Cramp, Karin Gerhardt and Michelle Heupel</p> <p>Do marine parks save sharks? Key questions and a conceptual framework for assessing the contribution of marine parks to shark and ray conservation</p>	<p>Raul Augusto Gonzalez Pech, Mark Ragan and Cheong Xin Chan *</p> <p>Unveiling signatures of <i>Symbiodinium</i> using functional genomics</p>
<p>16:15</p>	<p>Mark Read, Roger Beeden, Andrew Dunstan, David Wachenfeld, Dan Schaper, Richard Quincey, Damien Head, Tina Alderson, Katharine Robertson and Col Limpus</p> <p>Adaptive management at Raine Island - the world's largest green turtle rookery</p>	<p>Wing Yan Chan, Lesa Peplow, Ary Hoffmann and Madeleine van Oppen *</p> <p>Generating novel genetic diversity through hybridization as a tool to increase coral climate resilience</p>	<p>Naomi Gardiner, Aidah A Husain and Sutinah Made</p> <p>Sustaining reef fish assemblages in eastern Indonesia's most populated districts</p>	<p>Katherina Petrou, Daniel A Nielsen and Philip Heraud</p> <p>Shining light on coral bleaching: Synchrotron-based macromolecular profiling reveals major metabolic shifts in coral algal symbionts during heat stress and expulsion</p>



Australian Coral Reef Society 2017 Conference

16:30	Jon C. Day *	Discussion	Johanna Leonhardt, Morgan Pratchett and Andrew Hoey *	Discussion
	Public outcry will do more to save the Great Barrier Reef than all the science in the world		Algal-farming damselfish and their impacts on health and structure of coral hosts in the aftermath of severe coral bleaching	
16:45	Discussion		Discussion	
19:00 Australian Institute of Marine Science Conference Awards Dinner Rydges Ballroom				

Australian
Coral Reef Society