

# Oral Program

Environment

Biodiversity

People


Integration


Monday 3 September 2018

12:00-14:00	Registration   Function Floor Foyer			
Room:	Golden Ballroom			
14:00-14:30	Welcome Remarks			
14:30-14:45	Joining ECSA			
14:45-15:00	Introduction to awards and voting with App			
15:00-15:30	Refreshment Break   Grand River Ballroom			
Room	Golden Ballroom North	Golden Ballroom Centre	Golden Ballroom South	Mt Newman
15:30-17:15	<b>SS.1g Changing sea levels and changing tides</b>	<b>SS.1k Greenhouse gasses: Production, uptake, and emission</b>	<b>SS.2h Trait-based approaches for understanding ecosystem functioning in a changing world</b>	<b>GS.3d Societal values</b>
15:30-15:45	<b>SS1G.01: Hydrodynamic modeling of climate change impact and restoration scenarios in two contrasting Australian East Coast estuaries</b> V. Heimhuber*, W.C. Glamore, D.S. Rayner, M. Deiber, B.M. Miller, <i>University of New South Wales, Australia</i>	<b>SS1K.01: Greenhouse gas emission from the sediments of tidal wetlands: A review</b> X. Ouyang*, S.Y. Lee, <i>The Chinese University of Hong Kong, Hong Kong</i>	<b>SS2H.01: Functional trait responses to sediment deposition reduce macrofauna-mediated ecosystem functioning in an estuarine mudflat</b> C. Van Colen* <sup>1</sup> , S. Mestdagh <sup>1</sup> , L. Bagaço <sup>1</sup> , U. Braeckman <sup>1</sup> , T. Ysebaert <sup>2,3</sup> , B. De Smet <sup>1</sup> , T. Moens <sup>1</sup> , <sup>1</sup> <i>Ghent University, Belgium</i> , <sup>2</sup> <i>NIOZ Royal Netherlands Institute for Sea Research, The Netherlands</i> , <sup>3</sup> <i>Wageningen University and Research, The Netherlands</i>	<b>GS3D.01: Unravelling the social values of a small-scale fishery: Steps towards improving sustainability</b> C. Obregón*, M. Hughes, J.R. Tweedley, N.R. Loneragan, <i>Murdoch University, Australia</i>
15:45-16:00	<b>SS1G.02: Sea level and tides under climate change in the Pearl River Delta</b> M. De Dominicis*, S. Jevrejeva, J. Wolf, <i>National Oceanography Centre, UK</i>	<b>SS1K.02: Drivers of greenhouse gas (CO<sub>2</sub>, CH<sub>4</sub> &amp; N<sub>2</sub>O) emissions in New South Wales estuaries</b> J.Z.Q. Yeo*, J.A. Rosentreter, J.M. Oakes, B.D. Eyre, <i>Southern Cross University, Australia</i>	<b>SS2H.02: Estuarine barriers influence the compositions of the fish and invertebrate faunas, but do they alter functional and taxonomic diversity?</b> J.R. Tweedley*, S.J. Beatty, A. Cottingham, <i>Murdoch University, Australia</i>	<b>GS3D.02: Opinions and experiences of Australian recreational fishers with no-take marine reserves</b> M. Navarro* <sup>1</sup> , A. Hailu <sup>1</sup> , M.E. Kragt <sup>1</sup> , T. Langlois <sup>1,2</sup> , <sup>1</sup> <i>University of Western Australia, Australia</i> , <sup>2</sup> <i>UWA Oceans Institute, Australia</i>
16:00-16:15	<b>SS1G.03: The influence of the 18.6-year nodal cycle in Western Australia during the next decade</b> C.B. Pattiaratchi* <sup>1</sup> , M.J. Eliot <sup>2</sup> , <sup>1</sup> <i>The University of Western Australia, Australia</i> , <sup>2</sup> <i>Damara WA Pty Ltd, Australia</i>	<b>SS1K.03: Tidal reinstatement and wetland gas flux: The mediating influence of climate and geomorphic context</b> N. Saintilan* <sup>1</sup> , J. Kelleway <sup>1</sup> , G. Edwards <sup>1</sup> , K. Negandhi <sup>1</sup> , K. Rogers <sup>2</sup> , <sup>1</sup> <i>Macquarie University, Australia</i> , <sup>2</sup> <i>University of Wollongong, Australia</i>	<b>SS2H.03: Assessing estuarine fish community status: From classical ecological assessment to functional indices</b> N. Teichert, J. Lobry, M. Lepage*, <i>Irstea, UR EABX, Equipe FREEMA, France</i>	<b>GS3D.03: Societal perceptions of New Zealand's coastal and marine environments: Understanding human dimensions to better manage our environments</b> M.L. Campbell* <sup>1,2</sup> , C.L. Hewitt <sup>1</sup> , <sup>1</sup> <i>Murdoch University, Australia</i> , <sup>2</sup> <i>University of Waikato, New Zealand</i>

16:15-16:30	<p><b>SS1G.04: Influence of river discharge change on tidal propagation in Chengtong Reach of Yangtze Estuary</b> Y.P. Chen*, M. Gan, J.X. Li, Z.S. Xu, Hohai University, China</p>	<p><b>SS1K.04: Nitrogen reduction pathways and controlling factors across a mosaic of benthic habitats in the Noosa River estuary, Australia</b> J. Chen*, N. Wells, D. Erler, B. Eyre, Centre for Coastal Biogeochemistry, Australia</p>	<p><b>SS2H.04: Density dependent effects of a deposit-feeding tellinid bivalve on sediment stability along a wave exposure gradient</b> H.R. Needham*<sup>1</sup>, C.A. Pilditch<sup>1</sup>, M.O. Green<sup>2</sup>, <sup>1</sup>University of Waikato, New Zealand, <sup>2</sup>Streamlined Environmental, New Zealand</p>	<p><b>GS3D.04: Social values of the Kimberley coast for marine planning</b> H.T. Kobryn*<sup>1</sup>, J. Munro<sup>1,3</sup>, G. Brown<sup>2</sup>, S.A. Moore<sup>1</sup>, <sup>1</sup>Murdoch University, Australia, <sup>2</sup>California Polytechnic State University, USA, <sup>3</sup>Biodiversity and Attractions, Australia</p>
16:30-16:45	<p><b>SS1G.05: Application of satellite altimetry as a tool for managing coastal risk in Mozambique, Madagascar and South Africa</b> A.E. Becker*<sup>1,2</sup>, P.D. Cotton<sup>3</sup>, A. Hibbert<sup>1</sup>, S.D.P. Williams<sup>1</sup>, M.D. Pickering<sup>4</sup>, K.J. Horsburgh<sup>1</sup>, <sup>1</sup>National Oceanography Centre, UK, <sup>2</sup>University of Liverpool, UK, <sup>3</sup>SatOC, UK, <sup>4</sup>University of Southampton, UK</p>	<p><b>SS1K.05: Role of carbonate burial in "Blue Carbon" ecosystems budgets</b> V.S. Saderne, King Abdullah University of Science and Technology (KAUST), Saudi Arabia</p>	<p><b>SS2H.05: The application of bioturbation to sediment bioremediation: A review and meta-analysis</b> S. Vadillo-Gonzalez*, K. Dafforn, P. Gribben, E. Johnston, University of New South Wales, Australia</p>	<p><b>GS3D.05: Mapping the intangibles: Cultural ecosystem services obtained from Lake Macquarie estuary, New South Wales, Australia</b> C.L. Martin, The University of Newcastle, Australia</p>
16:45-17:00	<p><b>SS1G.06: Assessing estuaries in a changing climate</b> W. Glamore*, D. Rayner, V. Heimhuber, B. Miller, P. Raham, M. Deiber, UNSW Sydney, Australia</p>	<p><b>SS1K.06: Modelling major greenhouse gases (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O) in an estuarine environment: A case study in a eutrophic sub-tropical estuary</b> P. Huang*<sup>1</sup>, N. Wells<sup>2</sup>, B. Eyre<sup>2</sup>, M. Hipsey<sup>1</sup>, <sup>1</sup>University of Western Australia, Australia, <sup>2</sup>Southern Cross University, Australia</p>	<p><b>SS2H.06: Does size matter? The effect of bivalves on ecosystem functioning in sandflats</b> S.F. Thomas*<sup>1</sup>, C. Savage<sup>1</sup>, C.A. Pilditch<sup>2</sup>, <sup>1</sup>University of Otago, New Zealand, <sup>2</sup>University of Waikato, New Zealand</p>	
17:00-17:15	<p><b>SS1G.07: Sea level rise and tidal dynamics – Numerical investigations of two Mid-Atlantic estuaries</b> S.B. Lee*<sup>1</sup>, M. Li<sup>2</sup>, F. Zhang<sup>2</sup>, <sup>1</sup>Griffith University, Australia, <sup>2</sup>University of Maryland Center for Environmental Science, USA</p>		<p><b>SS2H.07: Community response of meiofauna to a changing climate in tropical and temperate coasts</b> A.M. Vafeiadou<sup>1</sup>, B.L.P. Bretaña<sup>1</sup>, C. van Colen*<sup>1</sup>, G.A.P. dos Santos<sup>2</sup>, T. Moens<sup>1</sup>, <sup>1</sup> Ghent University, Belgium, <sup>2</sup>Federal University of Pernambuco, Brazil</p>	
17:15-18:15	Welcome Drinks Reception & Poster Session 1   Grand River Ballroom			
18:15-20:45	Perth Walking Tour (Optional Ticketed Event)			

Tuesday 4 September 2018

08:00-08:30	Arrival Tea & Coffee   Function Floor Foyer					
Room:	Golden Ballroom					
08:30-09:15	<b>[KEY1] Possible trajectories for coastal areas and sea-level rise</b> Robert Nicholls, <i>University of Southampton, UK</i>					
09:15-10:00	<b>[KEY2] Addressing climate-driven changes in marine systems requires integration of ecology, conservation and social science</b> Gretta Pecl, <i>University of Tasmania, Australia</i>					
10:00-10:30	Refreshment Break   Grand River Ballroom					
Room	Golden Ballroom North	Golden Ballroom Centre	Golden Ballroom South	Hamersley	Goldsworthy	Mt Newman
10:30-11:30	<b>GS.1c Oceanography and physical-biological coupling</b>	<b>SS.1e Coastal wetland vulnerability: Climate change, anthropogenic pressures, and extreme events</b>	<b>SS.2h Trait-based approaches for understanding ecosystem functioning in a changing world</b>	<b>GS.2d Ecosystem structure and function</b>	<b>SS.4s EMECS Sponsored Session: Environmental management of enclosed coastal seas</b> 	<b>SS.3i Policies for improvement of artisanal fisheries in developing countries</b>
10:30-10:45	<b>GS1C.01: Oceanographic structures along the Western Australia coasts from a combined analysis of HF radar, altimetry, SST and subsurface observations</b> S. Cosoli*, C. Pattiaratchi, Y. Hetzel, <i>The University of Western Australia, Australia</i>	<b>SS1E.01: Mangroves as nutrient filters: Groundwater fluxes versus sediment burial</b> C. Sanders*, I. Santos, D. Tait, D. Mahar, <i>Southern Cross University, Australia</i>	<b>SS2H.08: The influence of environmental factors on seagrass response traits, functional traits and their relationship to ecosystem function</b> A. Moreira-Saporiti*, I. G. Viana <sup>1</sup> , E.F. Belshe <sup>1</sup> , M. Mtolera <sup>2</sup> , M. Teichberg <sup>1</sup> , <sup>1</sup> Leibniz Centre for Tropical Marine Research (ZMT), Germany, <sup>2</sup> Institute of Marine Science (IMS), Tanzania	<b>GS2D.01: Glimpses into the Precambrian past: The unique biodiversity of living peritidal stromatolites along South Africa's coastline</b> G.M. Rishworth*, R. Perissinotto, <i>Nelson Mandela University, South Africa</i>	<b>SS4S.01: Development of coastal management method to realize the sustainable coastal sea</b> T. Yanagi, <i>International EMECS Center, Japan</i>	<b>SS3I.01: Traditional fishermen in Rote Island: An alternative livelihood to illegal fishing activities</b> F.L. Benu* <sup>1</sup> , A.A. Nalle <sup>1</sup> , M.W. Muskanan <sup>1</sup> , P.G. King <sup>2</sup> , <sup>1</sup> University of Nusa Cendana, Indonesia, <sup>2</sup> Griffith University, Australia
10:45-11:00	<b>GS1C.02: ENSO effects on Southern South China Sea and upwelling features</b> A. Johari*, M.F. Akhir, <i>Universiti Malaysia Terengganu, Malaysia</i>	<b>SS1E.02: Losses of soil organic carbon with deforestation in mangroves of Madagascar</b> A. Arias-Ortiz* <sup>1</sup> , L. Glass <sup>2</sup> , L. Benson <sup>2,7</sup> , H. Kennedy <sup>3</sup> , P. Masqué <sup>1,4</sup> , J. Garcia-Orellana <sup>1</sup> , S. Ridgway <sup>4</sup> , G. Salgado <sup>4</sup> , C.M. Duarte <sup>5</sup> , C.E. Lovelock <sup>6</sup> , <sup>1</sup> Universitat Autònoma de Barcelona, Spain, <sup>2</sup> Blue Ventures Conservation, Madagascar, <sup>3</sup> Bangor University, UK, <sup>4</sup> Edith Cowan	<b>SS2H.09: Urbanisation supplements ecosystem functioning in disturbed estuaries</b> A.D. Olds* <sup>1</sup> , B.A. Frohloff <sup>1</sup> , B.L. Gilby <sup>1</sup> , R.M. Connolly <sup>2</sup> , N.A. Yabsley <sup>1</sup> , P.S. Maxwell <sup>3</sup> , C.J. Henderson <sup>1</sup> , T.A. Schlacher <sup>1</sup> , <sup>1</sup> University of the Sunshine Coast, Australia, <sup>2</sup> Griffith University, Australia, <sup>3</sup> Healthy Land and Water, Australia	<b>GS2D.02: Microbial community assembly in coastal ponds</b> C.R.J. Kavazos <sup>1</sup> , M.J. Huggett* <sup>1,2</sup> , U. Mueller <sup>1</sup> , P. Horwitz <sup>1</sup> , <sup>1</sup> Edith Cowan University, Australia, <sup>2</sup> The University of Newcastle, Australia	<b>SS4S.02: Evaluation of benthic quality using M-AMBI in Seto Inland Sea, Japan</b> A. Umehara* <sup>1</sup> , S. Nakai <sup>1</sup> , T. Okuda <sup>2</sup> , M. Ohno <sup>1</sup> , W. Nishijima <sup>1</sup> , <sup>1</sup> Hiroshima University, Japan, <sup>2</sup> Ryukoku University, Japan	<b>SS3I.02: Reef fish resources potential in marine protected area of Karimunjawa National Park</b> E. Yuliana* <sup>1</sup> , M. Boer <sup>1,2</sup> , A. Fahrudin <sup>1,2</sup> , M.M. Kamal <sup>1,2</sup> , S.T. Pardede <sup>1,3</sup> , <sup>1</sup> Universitas Terbuka (The Indonesia Open University), Indonesia, <sup>2</sup> Bogor Agricultural University, Indonesia, <sup>3</sup> Wildlife Conservation Society Indonesia Marine Program, Indonesia

		University, Australia, <sup>5</sup> King Abdullah University of Science and Technology, Saudi Arabia, <sup>6</sup> University of Queensland, Australia, <sup>7</sup> Lowestoft Laboratory, UK				
11:00-11:15	<b>GS1C.03: The influence of El Niño Southern Oscillation on the interannual variability of upwelling along the east coast of Peninsular Malaysia</b> P.H. Kok*, M.F. Akhir, <i>Universiti Malaysia Terengganu, Malaysia</i>	<b>SS1E.03: Foliar disease incidence on mangroves as indicator of environmental quality</b> M.M. Abdullah* <sup>1</sup> , A. Sahibu <sup>1</sup> , A.S. Hashim <sup>1</sup> , I.N.M. Sidiq <sup>2</sup> , <sup>1</sup> <i>School of Marine and Environmental Studies, Malaysia</i> , <sup>2</sup> <i>School of Food Science and Technology, Malaysia</i>	<b>SS2H.10: Anthropogenic disturbances affect the functional diversity and community structure of mangrove macrobenthos</b> I. Nordhaus* <sup>1</sup> , A.K. Seiz <sup>1,2</sup> , <sup>1</sup> <i>Leibniz Centre for Tropical Marine Research, Germany</i> , <sup>2</sup> <i>University of Bremen, Germany</i>	<b>GS2D.03: Genetic diversity and phylogeography of the horned ghost crab <i>Ocypode ceratophthalmus</i>: Evaluating drivers of Indo-Pacific marine biodiversity</b> K.H. Chu* <sup>1</sup> , K.Y. Ma <sup>1</sup> , L.H. Chow <sup>1</sup> , K.J.H. Wong <sup>2</sup> , H-N. Chen <sup>2</sup> , B.H.Y. Ip <sup>1,3</sup> , C.D. Schubart <sup>4</sup> , L.M. Tsang <sup>1</sup> , B.K.K. Chan <sup>2</sup> , <sup>1</sup> <i>The Chinese University of Hong Kong, Hong Kong</i> , <sup>2</sup> <i>Academia Sinica, Taiwan</i> , <sup>3</sup> <i>Education University of Hong Kong, Hong Kong</i> , <sup>4</sup> <i>University of Regensburg, Germany</i>	<b>SS4S.03: Reality of <i>Satoumi</i>-type coastal management expanding in Japan</b> O. Matsuda, <i>International EMECS Center, Japan</i>	<b>SS3I.03: The policy of FADs to support tuna fisheries management in the Indian Ocean (Regional Fisheries Management 573)</b> T.W. Nurani*, S.H. Wisudo, P.I. Wahyuningrum, <i>Bogor Agricultural University, Indonesia</i>
11:15-11:30	<b>GS1C.04: Interannual variability of the South Vietnam upwelling (south china sea): Contributions of wind, eddies, chaotic variability and ENSO</b> M. Herrmann* <sup>1,2</sup> , N.D. Da <sup>1</sup> , R. Morrow <sup>1</sup> , N.M. Huan <sup>3</sup> , <sup>1</sup> <i>IRD, France</i> , <sup>2</sup> <i>USTH, Vietnam</i> , <sup>3</sup> <i>VNU-HUS, Vietnam</i>	<b>SS1E.04: Contrasting patterns of long-term change in mangrove area at coastal sites in Oman: The role of extreme weather events and urbanisation.</b> Z. Al-Afifi* <sup>1,2</sup> , D. Raffaelli <sup>1</sup> , B. Beukers-Stewart <sup>1</sup> , <sup>1</sup> <i>University of York, UK</i> , <sup>2</sup> <i>Higher College of Technology, Oman</i>	<b>SS2H.11: Functional trait analysis of biogenic structures reveals idiosyncrasy at a regional scale</b> S. Dittmann* <sup>1</sup> , C. Buschbaum <sup>2</sup> , P. Fitzgerald <sup>1</sup> , <sup>1</sup> <i>Flinders University, Australia</i> , <sup>2</sup> <i>Alfred-Wegener Institute, Australia</i>	<b>GS2D.04: Novel uses of BRUVS in estuaries</b> L. Johnston <sup>1</sup> , M.E. Platell* <sup>1,2</sup> , V. Raoult <sup>1</sup> , T.F. Gaston <sup>1</sup> , <sup>1</sup> <i>University of Newcastle, Australia</i> , <sup>2</sup> <i>Murdoch University, Australia</i>	<b>SS4S.04: Trapping of plastics in semi-enclosed seas: Insights from the Bohai Sea, China</b> Y. Li* <sup>1</sup> , E. Wolanski <sup>2</sup> , Z. Dai <sup>1</sup> , J. Lambrechts <sup>3</sup> , H. Zhang <sup>1</sup> , <sup>1</sup> <i>Yantai Institute of Coastal Zone Research, China</i> , <sup>2</sup> <i>James Cook University, Australia</i> , <sup>3</sup> <i>Université Catholique de Louvain, Belgium</i>	<b>SS3I.04: Site selection and sustainability analysis for imminent threats of globally threatened horseshoe crab in Indonesia</b> L. Meilana*, Q. Fang, <i>Xiamen University, China</i>
11:30-11:40	Synchronisation Break					
Room	Golden Ballroom North	Golden Ballroom Centre	Hamersley	Goldsworthy	Mt Newman	
11:40-12:40	<b>GS.1c Oceanography and physical-biological coupling</b>	<b>SS.1e Coastal wetland vulnerability: Climate change, anthropogenic pressures, and extreme events</b>	<b>GS.2d Ecosystem structure and function</b>	<b>SS.4s EMECS Sponsored Session: Environmental management of enclosed coastal seas</b> 	<b>SS.3i Policies for improvement of artisanal fisheries in developing countries</b>	

11:40-11:55	<p><b>GS1C.05: The Bonney Coast upwelling: Spatial and temporal insights from the high-frequency imagery of the himawari-8 satellite</b> A. Leplastrier*, Z. Huang, <i>Geoscience Australia, Australia</i></p>	<p><b>SS1E.05: Modelling the impact of sea level rise on the geomorphological evolution of mangrove-belt-mudflat coastlines</b> U.S.N. Best*<sup>1</sup>, M. van der Wegen<sup>1,2</sup>, J. Dijkstra<sup>2</sup>, B. van Maanen<sup>3</sup>, B.W. Borsje<sup>4</sup>, D. Roelvink<sup>1,2</sup>, <i>IHE-Delft Institute for Water Education, The Netherlands</i>, <i>Deltares, The Netherlands</i>, <i>Utrecht University, The Netherlands</i>, <i>University of Twente, The Netherlands</i></p>	<p><b>GS2D.05: Spatiotemporal ichthyofaunal dynamics in a permanently open estuary, Otago, New Zealand</b> F. Taddese*, G.P. Closs, M. Schallenberg, <i>University of Otago, New Zealand</i></p>	<p><b>SS4S.05: Size and space distributions of microplastics in a coastal sea heavily used for aquaculture</b> N. Sagawa*, K. Kawaai, H. Hinata, <i>Ehime University, Japan</i></p>	<p><b>SS3I.05: Reclamation of the North Jakarta shore: A contested and dividing project</b> R.A. Kinseng*, A. Mahmud, <i>Bogor Agricultural University, Indonesia</i></p>
11:55-12:10	<p><b>GS1C.06: Modeling residence time of the Eastern Scheldt</b> L. Jiang*, T. Gerkema, K. Soetaert, <i>Royal Netherlands Institute for Sea Research (NIOZ) and Utrecht University, The Netherlands</i></p>	<p><b>SS1E.06: Characterising the impact of tropical cyclones on mangroves using Digital Earth Australia</b> L. Lymburner*<sup>1</sup>, C.E. Krause<sup>1</sup>, P. Bunting<sup>2</sup>, R. Lucas<sup>2</sup>, <i><sup>1</sup>Geoscience Australia, Australia</i>, <i><sup>2</sup>University of Aberyswyth, UK</i></p>	<p><b>GS2D.06: Habitat type and beach exposure shape fish assemblages in the surf zones of ocean beaches</b> H.P. Borland*<sup>1</sup>, T.A. Schlacher<sup>1</sup>, B.L. Gilby<sup>1</sup>, R.M. Connolly<sup>2</sup>, N.A. Yabsley<sup>1</sup>, A.D. Olds<sup>1</sup>, <i><sup>1</sup>University of the Sunshine Coast, Australia</i>, <i><sup>2</sup>Griffith University, Australia</i></p>	<p><b>SS4S.06: A double whammy: Sticky waters in enclosed seas</b> E. Wolanski*<sup>1</sup>, R. Patterson<sup>2</sup>, J. Lambrechts<sup>3</sup>, <i><sup>1</sup>James Cook University, Australia</i>, <i><sup>2</sup>Charles Darwin University, Australia</i>, <i><sup>3</sup>Université Catholique de Louvain, Australia</i></p>	
12:10-12:25	<p><b>GS1C.07: Bottom water intrusion into the coastal semi-enclosed bay in the Northern South China Sea</b> Y.J. Xu*, J.T. Hu, S.Y. Li, <i>Sun Yat-Sen University, China</i></p>	<p><b>SS1E.07: Mangrove conservation must go beyond simplistic large-scale planting</b> S.Y. Lee<sup>1,2</sup>, <i><sup>1</sup>The Chinese University of Hong Kong, Hong Kong</i>, <i><sup>2</sup>Mangrove Specialist Group, IUCN, Switzerland</i></p>	<p><b>GS2D.07: Does harvesting of drift algae to reduce nitrogen in coastal marine ecosystems pose a risk to associated animals?</b> J.M. Valero-Rodriguez*, T. Dempster, S. Swearer, <i>The University of Melbourne, Australia</i></p>	<p><b>SS4S.07: Flooding vulnerability and benefit cost ratio analysis of the Pearl River Estuary</b> C. Tang*, X. Liu, D. Li, X. Zheng, <i>Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, China</i></p>	
12:25-12:40	<p><b>GS1C.08: Dynamics and simulation of buoyant objects on the Rottneest Shelf under different transport mechanisms</b> M. van der Mheen*, C. Pattiaratchi, <i>The University of Western Australia, Australia</i></p>	<p><b>SS1E.08: Tropical cyclone impact on mangrove forest of Southwest Florida, USA</b> J.M. Smoak*<sup>1</sup>, R.P. Moyer<sup>2</sup>, K.R. Radabaugh<sup>2</sup>, D. Lagomasino<sup>3</sup>, B.E. Rosenheim<sup>1</sup>, C. Schafer<sup>1</sup>, L.G. Chambers<sup>4</sup>, S. Harttung<sup>4</sup>, J.L. Breithaupt<sup>4</sup>, J.C. Lynch<sup>5</sup>, <i><sup>1</sup>University of South Florida, USA</i>, <i><sup>2</sup>Florida Fish and Wildlife Conservation Commission, USA</i>, <i><sup>3</sup>University of Maryland, USA</i>, <i><sup>4</sup>University of Central Florida, USA</i>, <i><sup>5</sup>U.S. National Park Service, USA</i></p>	<p><b>GS2D.08: From microbes to fish: Divergent biodiversity patterns emerge in response to environmental gradients in the beauties and beasts of Red Sea coral reefs</b> S. Carvalho*, J.K. Pearman, H. Anlauf, <i>King Abdullah University of Science and Technology (KAUST), Saudi Arabia</i></p>	<p><b>SS4S.08: Multiple stressor effects on coral reef ecosystems in the Red Sea</b> A. Steckbauer*, S. Carvalho, H. Anlauf, B. Jones, J.I. Ellis, <i>King Abdullah University of Science and Technology (KAUST), Saudi Arabia</i></p>	
12:40-13:10	Lunch   Grand River Ballroom				

13:10-14:00	Poster Session 1   Grand River Ballroom					
Room	Golden Ballroom North	Golden Ballroom Centre	Golden Ballroom South	Hamersley	Goldsworthy	Mt Newman
14:00-16:10	<b>GS.1c Oceanography and physical-biological coupling</b>	<b>SS.1e Coastal wetland vulnerability: Climate change, anthropogenic pressures, and extreme events</b>	<b>SS.4i The Great Barrier Reef - A rapidly changing and degrading ecosystem: The need for urgent management and current opportunities</b>	<b>GS.2d Ecosystem structure and function</b>	<b>SS.4l Novel approaches to monitoring estuaries, coastal and shelf waters</b>	<b>GS.2c Connectivity (Energy, genes, habitats and disease)</b>
14:00-14:15	<b>GS1C.09: Tidal impacts on primary production in the North Sea</b> C. Zhao*, U. Daewel, C. Schrum, <i>Helmholtz-Zentrum Geesthacht, Germany</i>	<b>SS1E.09: Impact of eutrophication on carbon storage in seagrass meadows</b> C. Salinas* <sup>1</sup> , O. Serrano <sup>1,2</sup> , C. Duarte <sup>3</sup> , G. Kendrick <sup>2</sup> , P. Masque <sup>2,4</sup> , A. Arias-Ortiz <sup>4</sup> , J. Leon <sup>5</sup> , P. Lavery <sup>1,6</sup> , <sup>1</sup> <i>Edith Cowan University, Australia</i> , <sup>2</sup> <i>The University of Western Australia, Australia</i> , <sup>3</sup> <i>King Abdullah University of Science and Technology, Saudi Arabia</i> , <sup>4</sup> <i>Universitat Autònoma de Barcelona, Spain</i> , <sup>5</sup> <i>University of the Sunshine Coast, Australia</i> , <sup>6</sup> <i>Centre d'Estudis Avançats de Blanes, Spain</i>	<b>SS4I.01: The Great Barrier Reef - A rapidly changing and degrading ecosystem: An overview of the need for urgent management and current opportunities</b> J. Waterhouse* <sup>1</sup> , J. Brodie <sup>1</sup> , B. Schaffelke <sup>2</sup> , R. Bartley <sup>3</sup> , R. Eberhard <sup>4</sup> , M. Star <sup>5</sup> , P. Thorburn <sup>3</sup> , M. Ronan <sup>6</sup> , B. Taylor <sup>3</sup> , F. Kroon <sup>2</sup> , <sup>1</sup> <i>James Cook University, Australia</i> , <sup>2</sup> <i>Australian Institute of Marine Science, Australia</i> , <sup>3</sup> <i>CSIRO, Australia</i> , <sup>4</sup> <i>Eberhard Consulting, Australia</i> , <sup>5</sup> <i>Central Queensland University, Australia</i> , <sup>6</sup> <i>Department of Environment and Science, Australia</i>	<b>GS2D.09: A tale of two habitats: Comparing faunal communities where mangroves are expanding in South Africa</b> A. Rajkaran* <sup>1</sup> , J. Frederick <sup>1</sup> , N. James <sup>2</sup> , R. Kuer <sup>1</sup> , N. Peer <sup>3</sup> , <sup>1</sup> <i>University of the Western Cape, South Africa</i> , <sup>2</sup> <i>South African Institute of Aquatic Biodiversity, South Africa</i> , <sup>3</sup> <i>Nelson Mandela Metropolitan, South Africa</i>	<b>SS4L.01: A decade of integrated continental shelf observing in Western Australia</b> C.B. Pattiaratchi* <sup>1</sup> , S. Cosoli <sup>1</sup> , M. Feng <sup>2</sup> , <sup>1</sup> <i>The University of Western Australia, Australia</i> , <sup>2</sup> <i>CSIRO Oceans and Atmosphere, Australia</i>	<b>GS2C.01: Natural vs artificial marine-estuarine connectivity: Recruitment of marine fish species into the closed St Lucia Estuarine System (South Africa)</b> Q. Schutte*, L. Vivier, D.P. Cyrus, <i>University of Zululand, South Africa</i>
14:15-14:30	<b>GS1C.10: Photo-physiological response of phytoplankton to tidal mixing in coastal waters of north-western Australia</b> M.J. McLaughlin* <sup>1</sup> , J. Greenwood <sup>1</sup> , M.J. Lourey <sup>2</sup> , P. Branson <sup>1</sup> , C.E. Hanson <sup>3</sup> , <sup>1</sup> <i>Commonwealth Scientific and Industrial Research Organisation, Australia</i> , <sup>2</sup> <i>BMT Oceanica, Australia</i> , <sup>3</sup> <i>Department of Education Western Australia, Australia</i>	<b>SS1E.10: Effects of nutrient and light availability on the nitrate and ammonium uptake of three tropical seagrass species</b> E. Thomsen*, L.S. Herbeck, T.C. Jennerjahn, <i>Leibniz Centre for Tropical Marine Research, Germany</i>	<b>SS4I.02: The importance of coral reef water quality on the dissolution of carbonate sediments in an acidifying ocean</b> B.D. Eyre* <sup>1</sup> , M. Mongin <sup>1</sup> , <sup>1</sup> <i>Southern Cross University, Australia</i> , <sup>2</sup> <i>CSIRO, Australia</i>	<b>GS2D.10: Long-term changes in the macrobenthos of NW European estuarine ecosystems</b> S. Little* <sup>1</sup> , J.P. Lewis <sup>2</sup> , K. Mazik <sup>3</sup> , <sup>1</sup> <i>Nottingham Trent University, UK</i> , <sup>2</sup> <i>Loughborough University, UK</i> , <sup>3</sup> <i>University of Hull, UK</i>	<b>SS4L.02: Improving chlorophyll-a and phytoplankton community estimation in a shallow estuary using multi-wavelength fluorescence and machine learning techniques</b> S. Adiyanti* <sup>1</sup> , J. Cosgrove <sup>2</sup> , N. Moheimani <sup>3</sup> , A. Gedaria <sup>4</sup> , <sup>1</sup> <i>University of Western Australia, Australia</i> , <sup>2</sup> <i>Department of Biodiversity, Conservation and Attractions, Australia</i> , <sup>3</sup> <i>Murdoch University, Australia</i> , <sup>4</sup> <i>Australian Water Quality Centre, Australia</i>	<b>GS2C.02: Running the gauntlet to spawn and high genetic connectivity among estuarine populations of the riverbreem <i>Acanthopagrus vagus</i> along the southern African coast</b> C.J. Oosthuizen* <sup>1</sup> , P.D. Cowley <sup>2</sup> , S.R. Kyle <sup>3</sup> , P. Bloomer <sup>1</sup> , <sup>1</sup> <i>University of Pretoria, South Africa</i> , <sup>2</sup> <i>South African Institute for Aquatic Biodiversity, South Africa</i> , <sup>3</sup> <i>Ezemvelo KZN Wildlife, South Africa</i>


14:30-14:45	<p><b>GS1C.11: Cyclones and hurricanes: What are their impacts on phytoplankton ecology?</b> P.A. Thompson, CSIRO, Australia</p>	<p><b>SS1E.11: Typhoon-induced changes of seagrass beds over the past three decades in the Korean coastal waters</b> K. Kim*<sup>1</sup>, B-J. Kim<sup>1</sup>, J-K. Choi<sup>1,2</sup>, J-H. Ryu<sup>1</sup>, <sup>1</sup>Korea Institute of Ocean Science and Technology, Republic of Korea, <sup>2</sup>KIOST-PML, UK</p>	<p><b>SS4I.03: A tale of two flood plumes: Examining the influence of 'new' terrestrial sediment delivery on inshore reefs of the Great Barrier Reef</b> S. Lewis*<sup>1</sup>, T. Stevens<sup>1</sup>, Z. Bainbridge<sup>1</sup>, J. Gorman<sup>1</sup>, S. Smithers<sup>1</sup>, J. Burton<sup>3</sup>, A. Garzon-Garcia<sup>3</sup>, C. Chen<sup>2</sup>, J. Olley<sup>2</sup>, M. Bahadori<sup>2</sup>, <sup>1</sup>James Cook University, Australia, <sup>2</sup>Griffith University, Australia, <sup>3</sup>Department of Environment and Science, Australia</p>	<p><b>GS2D.11: Impact of infaunal ecosystem engineers on microbial communities</b> A.J. Wyness*, A.J. Blight, P.C. Browne, M.T.G. Holden, D.M. Paterson, University of St Andrews, UK</p>	<p><b>SS4L.03: The development of a robust, autonomous pCO<sub>2</sub> monitoring system using low-cost sensors</b> S.C. Poh*<sup>1</sup>, D.J.J. Lee<sup>1</sup>, K.T. Kee<sup>1</sup>, W.W. Wong<sup>2</sup>, M.S. Mohd Nadzir<sup>3</sup>, L. Zhan<sup>4</sup>, <sup>1</sup>Universiti Malaysia Terengganu, Malaysia, <sup>2</sup>Monash University, Australia, <sup>3</sup>Universiti Kebangsaan Malaysia, Malaysia, <sup>4</sup>Third Institute of Oceanography, State Oceanic Administration, China</p>	<p><b>GS2C.03: How genetic variation may influence connectivity estimates obtained by trace elemental fingerprinting</b> C.R. Norrie*<sup>1</sup>, N.L.C. Ragg<sup>2</sup>, B.J. Dunphy<sup>1</sup>, C.J. Lundquist<sup>1,3</sup>, <sup>1</sup>University of Auckland, New Zealand, <sup>2</sup>Cawthron Institute, New Zealand, <sup>3</sup>NIWA, New Zealand</p>
14:45-15:00	<p><b>GS1C.12: An island by any other shape - How does flow topography interaction influence primary productivity patterns in the Northern Indian Ocean?</b> D. Su*, E.M.S. Wijeratne, C.B. Pattiaratchi, University of Western Australia, Australia</p>	<p><b>SS1E.12: Recovery of seagrass habitats from earthquake disturbances</b> I.D. Marsden, University of Canterbury, New Zealand</p>	<p><b>SS4I.04: Discharge of nitrogen species from Great Barrier Reef catchments, transformations in the marine environment and implications for management.</b> J. Brodie*<sup>1</sup>, A. Garzon-Garcia<sup>2</sup>, J. Burton<sup>2</sup>, J. Waterhouse<sup>3</sup>, S. Lewis<sup>3</sup>, R. Gruber<sup>4</sup>, B. Robson<sup>4</sup>, M. Baird<sup>5</sup>, M. Burford<sup>6</sup>, <sup>1</sup>James Cook University, Australia, <sup>2</sup>Queensland Government, Australia, <sup>3</sup>James Cook University, Australia, <sup>4</sup>Australian Institute of Marine Science, Australia, <sup>5</sup>CSIRO, Australia, <sup>6</sup>Griffith University, Australia</p>	<p><b>GS2D.12: Defining soft-sediment macrofaunal baseline conditions through large-scale diversity and biological trait analysis</b> N. Breine<sup>1</sup>, A. De Backer*<sup>1</sup>, K. Hostens<sup>1</sup>, C. Van Colen<sup>2</sup>, T. Moens<sup>2</sup>, G. Van Hoey<sup>1</sup>, <sup>1</sup>Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium, <sup>2</sup>Ghent University, Belgium</p>	<p><b>SS4L.04: Benefits of satellite open data cube concepts for cyanobacterial bloom monitoring</b> T. Malthus*<sup>1</sup>, J. Anstee<sup>1</sup>, E. Lehmann<sup>1</sup>, X. Ho<sup>1</sup>, E. Botha<sup>1</sup>, J. Brayon<sup>2</sup>, M. Shaikh<sup>2</sup>, <sup>1</sup>CSIRO, Australia, <sup>2</sup>NSW Department of Industry, Australia</p>	<p><b>GS2C.04: Reproductive synchrony, spore dispersal and connectivity between shallow and deep kelp beds</b> A. Giraldo Ospina*, R. Hovey, G.A. Kendrick, University of Western Australia, Australia</p>
15:00-15:10	Synchronization Break					
15:10-15:25	<p><b>GS1C.13: Do environmental drivers shape phytoplankton biomass off Western Iberia?</b> A.C. Brito<sup>1,2</sup>, P. Garrido-Amador<sup>3</sup>, A.M. Ferreira*<sup>1</sup>, <sup>1</sup>MARE/FCUL, Portugal, <sup>2</sup>Departamento Biologia Vegetal, FCUL, Portugal,</p>	<p><b>SS1E.13: Coastal evolution and stress factors affecting a coastal wetland in the central - south of Chile</b> C. Martinez<sup>1</sup>, M. Villagran*<sup>2</sup>, J. Quezada<sup>3</sup>, A. Belmonte<sup>3</sup>, R. Aranguiz<sup>2</sup>, M. Gomez<sup>2</sup>, <sup>1</sup>Pontificia Universidad Catolica de Chile, Chile, <sup>2</sup>Universidad Catolica de</p>	<p><b>SS4I.05: Modelling the role of Trichodesmium in the Great Barrier Reef</b> B.J. Robson*<sup>1,3</sup>, K. Wild-Allen<sup>2</sup>, J.H. Skerratt<sup>2</sup>, M.E. Baird<sup>2</sup>, M. Furnas<sup>1</sup>, M. Mongin<sup>2</sup>, F. Rizwi<sup>2</sup>, <sup>1</sup>Australian Institute of Marine Science, Australia, <sup>2</sup>CSIRO, Australia,</p>	<p><b>GS2D.13: A novel multifaceted approach for exploring trophic interactions in an estuarine system</b> S.R. Glazier*<sup>1</sup>, F. Valesini<sup>1</sup>, J. Tweedley<sup>1</sup>, S. Beatty<sup>1</sup>, R. McCallum<sup>2</sup>, G. Hydnes<sup>2</sup>, <sup>1</sup>Murdoch University, Australia, <sup>2</sup>Edith Cowan</p>	<p><b>SS4L.05: Using remote sensing for continental scale monitoring of estuarine condition</b> A.B. Bugnot*<sup>1</sup>, M. Lyons<sup>1</sup>, P. Scanes<sup>2</sup>, G.F. Clark<sup>1</sup>, S. Fyfe<sup>3</sup>, A. Lewis<sup>3</sup>, E.L. Johnston<sup>1</sup>, <sup>1</sup>The University of New South Wales, Australia, <sup>2</sup>Office of</p>	<p><b>GS2C.05: Climate-induced distribution shifts of marine fish while in coastal nurseries and their potential in affecting connectivity with adult stocks at sea</b> A. Franco<sup>1</sup>, J.A. Strong<sup>1,2</sup>, M. Elliott*<sup>1</sup>, <sup>1</sup>University of Hull, UK, <sup>2</sup>National</p>

	<sup>3</sup> Max Planck Institute, Germany	la Santisima Concepcion, Chile, <sup>3</sup> Universidad de Concepcion, Chile	<sup>3</sup> AIMS@JCU, Australia	University, Australia	Environment and Heritage, Australia, <sup>3</sup> Geosciences Australia, Australia	Oceanography Centre, UK
15:25-15:40	<p><b>GS1C.14: Functioning and variability of the pelagic planktonic ecosystem in the South China sea: Answers from a physical/biogeochemical coupled modeling study</b></p> <p>B.N. Trinh<sup>*1,2</sup>, M. Herrmann<sup>1,2</sup>, C. Ulses<sup>3</sup>, T. Duhaut<sup>3</sup>, J.P. Montoya<sup>4</sup>, B. Tranchant<sup>5</sup>, E. Gutknecht<sup>6</sup>, D.T. To<sup>7</sup>, D.V. Vu<sup>8</sup>, <sup>1</sup>University of Sciences and Technologies of Hanoi, Vietnam, <sup>2</sup>Universite de Toulouse, France, <sup>3</sup>Laboratoire d'Aérodologie, France, <sup>4</sup>Georgia Institute of Technology, USA, <sup>5</sup>CLS/Sustainable Management of Fisheries, France, <sup>6</sup>Mercator Ocean, France, <sup>7</sup>Institute of Oceanography, Vietnam, <sup>8</sup>Institute of Marine Environment and Resources, Vietnam</p>	<p><b>SS1E.14: Habitat shift in coastal wetlands following storm events</b></p> <p>X. Li<sup>*</sup>, N. Leonardi, A. Plater, University of Liverpool, UK</p>	<p><b>SS4I.06: From policy to paddock: How focusing on social and institutional concerns can improve water quality outcomes in the Great Barrier Reef</b></p> <p>R. Eberhard<sup>*</sup>, B.M. Taylor, Eberhard Consulting, Australia</p>	<p><b>GS2D.14: The effect of nutrient enrichment and sediment load on the composition and function of benthic microbial communities using lipid biomarkers and total carbohydrate and protein analysis of sediment</b></p> <p>J.A. Hope<sup>*</sup>, S.F. Thrush, University of Auckland, New Zealand</p>	<p><b>SS4L.06: The multivariate Benthic Health Model: A standardised and sensitive approach to assessing estuary health</b></p> <p>D. Clark<sup>*1,2</sup>, J. Hewitt<sup>3,4</sup>, J. Ellis<sup>5</sup>, C. Pilditch<sup>2</sup>, A. Zaiko<sup>1,4</sup>, <sup>1</sup>Cawthron Institute, New Zealand, <sup>2</sup>University of Waikato, New Zealand, <sup>3</sup>National Institute of Water and Atmospheric Science, New Zealand, <sup>4</sup>University of Auckland, New Zealand, <sup>5</sup>King Abdullah University of Science and Technology, Saudi Arabia</p>	<p><b>GS2C.06: Modelling oceanic dispersal of sea turtle hatchlings through locomotors energetic cost and ocean currents</b></p> <p>M.U. Rusli<sup>*1</sup>, M.F. Akhri<sup>1</sup>, D.T. Booth<sup>2</sup>, N.R. Daud<sup>3</sup>, <sup>1</sup>Universiti Malaysia Terengganu, Malaysia, <sup>2</sup>The University of Queensland, Australia, <sup>3</sup>Universiti Teknologi MARA, Malaysia</p>
15:40-15:55	<p><b>GS1C.15: Phytoplankton dynamics in West English Channel determined by chemotaxonomic and abundances approaches</b></p> <p>T. Hernández Fariñas<sup>*1</sup>, F. Menet<sup>1</sup>, L. M Zari<sup>1</sup>, T. Schwanka<sup>2</sup>, G. Courtay<sup>1</sup>, <sup>1</sup>Ifremer, France, <sup>2</sup>University of Caen, France</p>	<p><b>SS1E.15: Modelling bio-physical processes for long-term tidal mudflat dynamics</b></p> <p>P. Willemsen<sup>*1,2</sup>, B.W. Borsje<sup>1</sup>, T.J. Bouma<sup>2</sup>, Z. Hu<sup>3</sup>, S.J.M.H. Hulscher<sup>1</sup>, <sup>1</sup>University of Twente, The Netherlands, <sup>2</sup>NIOZ Royal Netherlands Institute for Sea Research and Utrecht University, The Netherlands, <sup>3</sup>Sun Yat-sen University, China</p>	<p><b>SS4I.07: Great Barrier Reef water quality, tree clearing and the 2016 federal election</b></p> <p>M. Newlands<sup>*</sup>, J. Brodie, James Cook University, Australia</p>	<p><b>GS2D.15: From ESCROC to ESCROPath, an innovative Bayesian method for estimating POP's biomagnification and trophic flows in estuarine food webs</b></p> <p>J. Lobry<sup>*1</sup>, M. Ballutaud<sup>1</sup>, H. Drouineau<sup>1</sup>, L. Carassou<sup>1</sup>, G. Muñoz<sup>2</sup>, X. Chevillot<sup>1</sup>, P. Labadie<sup>3</sup>, H. Budzinski<sup>3</sup>, <sup>1</sup>Irstea, France, <sup>2</sup>McGill University, Canada, <sup>3</sup>Université de Bordeaux, France</p>	<p><b>SS4L.07: 'You can't manage what you can't measure'; nutrient sensor technologies for improved decision-making at the farm-water quality interface</b></p> <p>A.M. Davis<sup>*1</sup>, A.J. Webster<sup>2</sup>, T. McShane<sup>4</sup>, P.J. Thornburn<sup>2</sup>, P. Fitch<sup>3</sup>, <sup>1</sup>James Cook University, Australia, <sup>2</sup>CSIRO Agriculture and Food, Australia, <sup>3</sup>CSIRO Land and Water, Australia, <sup>4</sup>Burdekin Bowen Integrated Floodplain Management Advisory Committee Inc., Australia</p>	



15:55-16:10	<p><b>GS1C.16: Physical-chemical-biological processes model and long-term effects of turbulence caused by cross road piers on marine ecosystem in Tokyo Bay</b> M. Watanabe, Chuo University, Japan</p>		<p><b>SS4I.08: Hear our voice: Scientific disputes... farmer protests...</b> R. Hay*, L. Eagle, M. Newlands, James Cook University, Australia</p>	<p><b>GS2D.16: Tipping points in ecosystem function: Microbial enzyme activities in estuarine sediments identify thresholds in nutrient cycling</b> C. Savage*<sup>1,2</sup>, J. Crawshaw<sup>1</sup>, S. Thomas<sup>1</sup>, F. Baltar<sup>1</sup>, B. Thomson<sup>1</sup>, S.F. Thrush<sup>3</sup>, C.A. Pilditch<sup>4</sup>, <sup>1</sup>University of Otago, New Zealand, <sup>2</sup>University of Cape Town, South Africa, <sup>3</sup>University of Auckland, New Zealand, <sup>4</sup>University of Waikato, New Zealand</p>	<p><b>SS4L.08: High-throughput marine monitoring in practice: A comparative study of anthropogenic impact assessments using environmental DNA metabarcoding</b> E. Aylagas*<sup>1</sup>, J. Pearman<sup>1</sup>, O. Laroche<sup>2</sup>, P. Sanchez-Jerez<sup>3</sup>, X. Pochon<sup>2,4</sup>, S. Wood<sup>2</sup>, Y. Kattan<sup>5</sup>, B.H. Jones<sup>1</sup>, J. Ellis<sup>1</sup>, S. Carvalho<sup>1</sup>, <sup>1</sup>King Abdullah University of Science and Technology (KAUST), Saudi Arabia, <sup>2</sup>Cawthron Institute, New Zealand, <sup>3</sup>University of Alicante, Spain, <sup>4</sup>University of Auckland, New Zealand, <sup>5</sup>Saudi Aramco, Saudi Arabia</p>	
16:10-16:40	Refreshment Break   Grand River Ballroom					
Room	Golden Ballroom North	Golden Ballroom Centre	Golden Ballroom South	Hamersley	Goldsworthy	Mt Newman
16:40-17:55	<p><b>GS.1c Oceanography and physical-biological coupling</b></p>	<p><b>GS.1a Land - ocean linkages</b></p>	<p><b>4.i. The Great Barrier Reef - A rapidly changing and degrading ecosystem: The need for urgent management and current opportunities</b></p>	<p><b>GS.2d Ecosystem structure and function</b></p>	<p><b>SS.4I Novel approaches to monitoring estuaries, coastal and shelf waters</b></p>	<p><b>SS.2j Paleocology: A tool for informed management of estuarine and coastal ecosystems</b></p>
16:40-16:55	<p><b>GS1C.17: Limited connectivity between two adjacent populations of the jellyfish <i>Chironex fleckeri</i></b> J.A. Schlaefer*<sup>1,2</sup>, E. Wolanski<sup>1,3</sup>, J. Lambrechts<sup>4</sup>, M.J. Kingsford<sup>1,2</sup>, <sup>1</sup>James Cook University, Australia, <sup>2</sup>Centre of Excellence for Coral Reef Studies, Australia, <sup>3</sup>Tropical Water &amp; Aquatic Ecosystem Research (TropWATER), Australia, <sup>4</sup>Université de Louvain, Belgium</p>	<p><b>GS1A.01: Melting glaciers as potential secondary sources of organic contaminants – Hornsund (Spitsbergen, Svalbard)</b> A. Pouch*, A. Zaborska, K. Pazdro, Institute of Oceanology, Polish Academy of Sciences, Poland</p>	<p><b>SS4I.09: Can cost transfer be useful for improved management of catchments adjacent to the Great Barrier Reef?</b> M.L. Star*, J.C. Rolfe, Central Queensland University, Australia</p>	<p><b>GS2D.17: The importance of macrofauna functional trait interaction for biogeochemical fluxes in marine sediments and scaling-up ecosystem functions</b> S. Schenone*<sup>1</sup>, T. O'Meara<sup>2,3</sup>, S. Thrush<sup>1</sup>, <sup>1</sup>The University of Auckland, New Zealand, <sup>2</sup>Smithsonian Environmental Research Center, USA, <sup>3</sup>Oak Ridge National Laboratory, USA</p>	<p><b>SS4L.09: Hydrodynamic modelling and rapid molecular identification improves monitoring of marine eggs and larvae (example of Western Australian dhufish, <i>Glaucosoma hebraicum</i> (Richardson, 1845))</b> J. Strzelecki*, M. Feng, O. Berry, CSIRO, Australia</p>	<p><b>SS2J.01: Undisturbed coastal sediments record human colonisation and land-use change, offshore from Abel Tasman National Park, New Zealand</b> S.J. Handley*<sup>1</sup>, M. Horrocks<sup>2</sup>, T.J. Willis<sup>3</sup>, <sup>1</sup>National Institute of Water and Atmospheric Research Ltd. (NIWA), New Zealand, <sup>2</sup>Microfossil Research Ltd., New Zealand, <sup>3</sup>University of Portsmouth, UK</p>

16:55-17:10	<p><b>GS1C.18: Self-organisation in a two-way coupled numerical model of benthic organisms and tidal sand waves</b>  J.H. Damveld*<sup>1</sup>, H.L. Maris<sup>2</sup>, B.W. Borsje<sup>1,3</sup>, P.C. Roos<sup>1</sup>, S.J.M.H. Hulscher<sup>1</sup>,  <sup>1</sup>University of Twente, The Netherlands, <sup>2</sup>Sweco Nederland, The Netherlands, <sup>3</sup>Board Young Waddenacademie, The Netherlands</p>	<p><b>GS1A.02: Spatial distribution of microplastic concentrations in a cross-section of the Edo River</b>  T. Kataoka*, F. Kitaura, Y. Nihei, K. Kudou, Tokyo University of Science, Japan</p>	<p><b>SS4I.10: Great Barrier Reef reporting: Media reporting from false hope to restoration</b>  M. Newlands*, L. Eagle, R. Hay, James Cook University, Australia</p>	<p><b>GS2D.18: Protect or repair: Insight into shoreline habitat complexity in Australia's urbanized tropical estuaries</b>  C. Trave*<sup>1,2</sup>, N. Waltham<sup>1,2</sup>, M. Sheaves<sup>1,2</sup>, <sup>1</sup>James Cook University, Australia, <sup>2</sup>TropWATER, Australia</p>	<p><b>SS4L.10: The use of passive monitoring systems to inform flexible colony-centred fishing closures</b>  A.M. McInnes*<sup>1</sup>, L. Pichegru<sup>1</sup>, P.G. Ryan<sup>2</sup>, J. Pead<sup>2</sup>, R. Verrinder<sup>2</sup>, L.J. Waller<sup>3</sup>, K. Ludynia<sup>4</sup>, P.A. Pistorius<sup>1</sup>, <sup>1</sup>Nelson Mandela University, South Africa, <sup>2</sup>University of Cape Town, South Africa, <sup>3</sup>Cape Nature, South Africa, <sup>4</sup>The Southern African Foundation for the Conservation of Coastal Birds, South Africa</p>	<p><b>SS2J.02: Use of multiproxy palaeo-based approach for source identification and high-resolution heavy metal assessment to improve future management within historically contaminated coastal systems</b>  A. Trewarn*<sup>1</sup>, B. Panther<sup>1</sup>, J. Reeves<sup>1</sup>, P. Gadd<sup>2</sup>, A. Reynolds<sup>1</sup>, A. Bonica<sup>1</sup>, S. Reichman<sup>3</sup>, <sup>1</sup>Federation University, Australia, <sup>2</sup>Australian Nuclear Science and Technology Organisation, Australia, <sup>3</sup>RMIT University, Australia</p>
17:10-17:25	<p><b>GS1C.19: Large scale drivers of benthic recruitment: Effects of environmental change and a harmful algal bloom</b>  C. Muñiz*<sup>1</sup>, N. Weidberg<sup>1,2</sup>, C.D. McQuaid<sup>1</sup>, <sup>1</sup>Rhodes University, South Africa, <sup>2</sup>Arctic University of Norway, Norway</p>	<p><b>GS1A.03: Ingestion of microplastics by zooplankton in Terengganu coastal water, Malaysia</b>  E.S. Sohaimi, R. Md Amin*, Universiti Malaysia Terengganu, Malaysia</p>	<p><b>SS4I.11: Governance systems analysis for effective management of the Great Barrier Reef</b>  A. Dale<sup>1</sup>, R. Eberhard*<sup>1</sup>, K. Vella<sup>2</sup>, R.L. Pressey<sup>1</sup>, J. Brodie<sup>1</sup>, M. Gooch<sup>1</sup>, R. Potts<sup>3</sup>, <sup>1</sup>James Cook University, Australia, <sup>2</sup>Queensland University of Technology, Australia, <sup>3</sup>Cardiff University, UK</p>	<p><b>GS2D.19: Habitat connectivity exerts opposing effects on key ecological functions</b>  T. Martin*<sup>1</sup>, A. Olds<sup>2</sup>, A. Olalde<sup>3</sup>, C. Berkstrom<sup>3</sup>, B. Gilby<sup>2</sup>, T. Schlacher<sup>2</sup>, I. Butler<sup>4,5</sup>, N. Yabsley<sup>2</sup>, M. Zann<sup>6</sup>, R. Connolly<sup>1</sup>, <sup>1</sup>Griffith University, Australia, <sup>2</sup>University of the Sunshine Coast, Australia, <sup>3</sup>Stockholm University, Sweden, <sup>4</sup>Australian National University, Australia, <sup>5</sup>CoraLogic Environmental Consulting, Australia, <sup>6</sup>The University of Queensland, Australia</p>	<p><b>SS4L.11: What can drones tell us about turtles?</b>  N.A. Mortimer*, M. Vanderklift, R. Pillans, CSIRO Oceans and Atmosphere, Australia</p>	<p><b>SS2J.03: Paleo-ecological analyses to assess long-term phytoplankton variations in response to climate change in a pristine coastal region, Kimberly, northwest of Australia</b>  Z. Yuan*<sup>1</sup>, J. Keesing<sup>2</sup>, M. Zhao<sup>3</sup>, D. Liu<sup>4</sup>, <sup>1</sup>Chinese Academy of Science, China, <sup>2</sup>CSIRO Marine and Atmospheric Research, Australia, <sup>3</sup>Ocean University of China, China, <sup>4</sup>East China Normal University, China</p>
17:25-17:40	<p><b>GS1C.20: Cold water intrusion events and associated biogeochemical effect in Dongsha Atoll</b>  G.Y. Chen, National Sun Yat-sen University, Taiwan</p>		<p><b>SS4I.12: Acknowledging critical challenges for scientists and regulators regarding marine environments: What are we managing towards and how do we know? Examples from Australia</b>  P. Larcombe*<sup>1</sup>, A. Morrison-Saunders<sup>2</sup>, P.V. Ridd<sup>3</sup>, C. Styan<sup>4</sup>, <sup>1</sup>University of</p>			<p><b>SS2J.04: Paleo-ecological analyses to assess long-term environmental effects of pearl farming in Western Australia</b>  D. Liu*<sup>1</sup>, Y. Peng<sup>2</sup>, J.K. Keesing<sup>3</sup>, <sup>1</sup>East China Normal University, China, <sup>2</sup>University of the Chinese Academy of Sciences, China, <sup>3</sup>CSIRO Oceans and Atmosphere, Australia</p>

			Western Australia, Australia, <sup>2</sup> Edith Cowan University, Australia, <sup>3</sup> James Cook University, Australia, <sup>4</sup> University College London, UK			
17:40-17:55	<p><b>GS1C.21: Bivalve shells - Geochemistry archives of environmental variability</b>  M. Peharda*<sup>1</sup>, K. Markulin<sup>1</sup>, R. Mertz-Kraus<sup>2</sup>, B.R. Schöne<sup>2</sup>, I. Janekovic<sup>3,4</sup>, H. Mihanovic<sup>1</sup>, D. Ezgeta-Balic<sup>1</sup>, H. Uvanovic<sup>1</sup>, I. Zupan<sup>5</sup>, I. Vilibic<sup>1</sup>, <sup>1</sup>Institute of Oceanography and Fisheries, Croatia, <sup>2</sup>Johannes Gutenberg University, Germany, <sup>3</sup>Ruder Boškovic Institute, Croatia, <sup>4</sup>The University of Western Australia, Australia, <sup>5</sup>University of Zadar, Croatia</p>					<p><b>SS2J.05: Seasonal distribution of living and total foraminiferal assemblages in Galpin's Salt Marsh, South Africa</b>  T. Hanekom*<sup>1,2</sup>, K.L. Strachan<sup>3</sup>, R. Toefy<sup>1</sup>, <sup>1</sup>Cape Peninsula University of Technology, South Africa, <sup>2</sup>Oceanographic Research Institute, South Africa, <sup>3</sup>University of the Witwatersrand, South Africa</p>
19:00-20:30	Free Workshop: Opportunities for industry engagement within and beyond research (sign-up required)					<p>In conjunction with</p>  <p><b>Harry Butler Institute</b> MURDOCH UNIVERSITY</p>

Wednesday 5 September 2018

07:30-08:00	Arrival Tea & Coffee   Function Floor Foyer					
Room:	Golden Ballroom					
08:00-08:45	<b>[KEY3] Estuarine and coastal ecology: Changing climates and connectivity in the Anthropocene</b> Alan Whitfield, <i>South African Institute for Aquatic Biodiversity, South Africa</i>					
08:45-09:30	<b>[KEY4] Environmental behaviour change: Benefits, barriers and the need for integrated strategies</b> Lynne Eagle, <i>James Cook University, Australia</i>					
09:30-10:00	Refreshment Break   Grand River Ballroom					
Room:	Golden Ballroom North	Golden Ballroom Centre	Golden Ballroom South	Hammersley	Goldsworthy	Mt Newman
10:00-12:10	<b>GS.1b Coastal morphodynamics and sediment transport</b>	<b>GS.1a Land - ocean linkages</b>	<b>SS.4q Keeping major urban estuaries, ports and harbours viable</b>	<b>SS.3j Assessing and valuing our environment: Challenging the ecosystem service approach</b>	<b>SS.2f Incorporating an understanding of resilience into the management, conservation and restoration of benthic primary producer habitats</b>	<b>SS.2g Omics advances in estuarine research and applications</b>
10:00-10:15	<b>GS1B.01: Quantifying the relative impact of waves and water levels</b> J.A. Simmons*, K.D. Splinter, T. Beuzen, <i>Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Sydney, Australia</i>	<b>GS1A.04: Tracking dissolved organic nitrogen from farm to sea across an agriculturally-dominated coastal catchment: A stable isotope approach</b> N.S. Wells*, M.Y. Reshid, B.D. Eyre, <i>Centre for Coastal Biogeochemistry, Southern Cross University, Australia</i>	<b>SS4Q.01: Impacts of high summer flow events on the ecological health of estuaries</b> C.S. Hallett* <sup>1</sup> , F.J. Valesini <sup>1</sup> , M.R. Hipsey <sup>2</sup> , P. Huang <sup>2</sup> , B. Busch <sup>2</sup> , <sup>1</sup> Murdoch University, Australia, <sup>2</sup> University of Western Australia, Australia	<b>SS3J.01: How to couple 'ecosystem services' and 'ecosystem assessments' to reach useful 'ecosystem based management'?</b> V.N. de Jonge* <sup>1</sup> , U. Schückerl <sup>2</sup> , <sup>1</sup> The University of Hull, UK, <sup>2</sup> Schleswig-Holstein Agency for Coastal Defence, Germany	<b>SS2F.01: Resilience of the marsh-mangrove ecotone in Texas, USA following a series of extreme events</b> A.R. Armitage* <sup>1</sup> , J.S. Kominoski <sup>2</sup> , M.J. Osland <sup>3</sup> , J.F. Schalles <sup>4</sup> , S.C. Pennings <sup>5</sup> , <sup>1</sup> Texas A&M University at Galveston, USA, <sup>2</sup> Florida International University, USA, <sup>3</sup> U.S. Geological Survey, USA, <sup>4</sup> Creighton University, USA, <sup>5</sup> University of Houston, USA	<b>SS2G.01: Sequence ecology: Investigating the impact of contaminants on microbial community structure and function in urban waterways as assessed by novel bioinformatics tools</b> F. Wemheuer* <sup>1</sup> , E. Johnston <sup>1</sup> , S.C. Birrer <sup>1</sup> , P. Steinberg <sup>1</sup> , S.L. Simpson <sup>2</sup> , J. Potts <sup>3</sup> , P. Scanes <sup>3</sup> , M. Sutherland <sup>1</sup> , V. Sim <sup>1</sup> , T. Lachnit <sup>4</sup> , <sup>1</sup> University of New South Wales, Australia, <sup>2</sup> CSIRO, Australia, <sup>3</sup> Office of Environment and Heritage, Australia, <sup>4</sup> Kiel University, Germany
10:15-10:30	<b>GS1B.02: Applying a sediment cell hierarchy to decadal-scale coastal evolution</b> T. Stul* <sup>1</sup> , M. Eliot <sup>1,2</sup> , I. Eliot <sup>1</sup> , J. Gozzard <sup>3</sup> , <sup>1</sup> Damara WA Pty Ltd, Australia, <sup>2</sup> The University of Western Australia, Australia, <sup>3</sup> Formerly at Geological Survey of Western Australia, Australia	<b>GS1A.05: Carbon and nutrients in submarine groundwater discharge around Taiwan and in SE China</b> S.L. Wang <sup>1</sup> , C.T.A. Chen* <sup>2</sup> , H.C. Tseng <sup>2,3</sup> , H.K. Lui <sup>4</sup> , T.R. Peng <sup>5</sup> , J. Zhang <sup>6</sup> , L.Y. Yang <sup>7</sup> , J.Y. Lou <sup>8</sup> , F.W. Kuo <sup>9</sup> , X.G. Chen <sup>10</sup> , <sup>1</sup> National Kaohsiung Marine University, Taiwan,	<b>SS4Q.02: Predicted shifts in estuarine fish communities with climate change: Winners and losers</b> G. Hyndes*, K. Trayler, K. Smith, <i>Edith Cowan University, Australia</i>	<b>SS3J.02: Virtuous circles in social-ecological systems - Redressing the imbalance of ecosystem services with stewardship services</b> J.W. Turnbull*, E.L. Johnston, G.F. Clark, <i>University of New South Wales, Australia</i>	<b>SS2F.02: Incorporating ecosystem resilience into understanding the impacts of seagrass loss and recovery in the Shark Bay World Heritage Site</b> G.A. Kendrick* <sup>1</sup> , M.W. Fraser <sup>1</sup> , E.A. Sinclair <sup>1</sup> , M. Breed <sup>2</sup> , J. Statton <sup>1</sup> , <sup>1</sup> The University of Western Australia, Australia, <sup>2</sup> University of Adelaide,	<b>SS2G.02: Identifying biomarkers of microbial nitrogen cycling in coastal sediments</b> A. Marshall* <sup>1,2</sup> , L. Phillips <sup>4</sup> , A. Longmore <sup>3,5</sup> , C. Tang <sup>2</sup> , K. Heidelberg <sup>6</sup> , P. Mele <sup>1,2</sup> , <sup>1</sup> Department of Economic Development, Australia, <sup>2</sup> La Trobe University, Australia, <sup>3</sup> Centre for Aquatic Pollution

		<p><sup>2</sup>National Sun Yat-sen University, Taiwan,  <sup>3</sup>University of Cadiz, Spain,  <sup>4</sup>Taiwan Ocean Research Institute, Taiwan, <sup>5</sup>National Chung Hsing University, Taiwan, <sup>6</sup>University of Toyama, Japan, <sup>7</sup>Fuzhou University, China, <sup>8</sup>Republic of China Naval Academy, Taiwan, <sup>9</sup>National Museum of Marine Biology &amp; Aquarium, Taiwan, <sup>10</sup>Zhejiang University, China</p>			Australia	<p>Identification and Management, Australia,  <sup>4</sup>Agriculture and Agri-Food Canada / Government of Canada, Canada, <sup>5</sup>The University of Melbourne, Australia, <sup>6</sup>The University of Southern California, USA</p>
10:30-10:45	<p><b>GS1B.03: An all-of-catchment sediment budget for a highly modified tidal estuarine system – Broadwater, Gold Coast, Australia</b>  J. Purandare*<sup>1</sup>, R. Tomlinson<sup>1</sup>, N. Cartwright<sup>1</sup>, M. Gibbs<sup>2</sup>,  <sup>1</sup>Griffith University, Australia,  <sup>2</sup>Queensland University of Technology, Australia</p>	<p><b>GS1A.06: Beyond burial: Lateral exchange is a significant atmospheric carbon sink in mangroves</b>  D.T. Maher*, M. Call, I.R. Santos, C.J. Sanders,  Southern Cross University, Australia</p>	<p><b>SS4Q.03: Freshwater flow and phytoplankton: Is a drying climate good for shallow salt-wedge estuaries?</b>  F.M.L. D'Souza*<sup>2</sup>, J.R. Tweedley<sup>2</sup>, N.R. Loneragan<sup>2</sup>, M. Cousins<sup>1</sup>, M. Robb<sup>1</sup>,  <sup>1</sup>Department of Water and Environmental Regulation, Government of Western Australia, Australia,  <sup>2</sup>Murdoch University, Australia</p>	<p><b>SS3J.03: Influence of submerged vegetation on food web characteristics of shallow coastal lagoons of the Baltic Sea</b>  M. Paar*, I. Blindow,  Biological Station of the University Greifswald, Germany</p>	<p><b>SS2F.03: Collapse and recovery of seagrasses in the Albany harbours: A study of resilience</b>  M.L. Cambridge*, R.K. Hovey, G.R. Bastyan,  The University of Western Australia, Australia</p>	<p><b>SS2G.03: Using ecogenomics and network analysis to unravel bacterial interactions in an anthropogenically impacted urban-estuary</b>  T.C. Jeffries, Western Sydney University, Australia</p>
10:45-11:00	<p><b>GS1B.04: Suspended matter dynamics in the estuary - coastal ocean - open sea continuum: From the Red River to the Gulf of Tonkin (Vietnam)</b>  V. Piton*<sup>1</sup>, S. Ouillon<sup>1</sup>, M. Herrmann<sup>1,2</sup>, P. Marsaleix<sup>1</sup>, V.D. Vinh<sup>2,1</sup>, T. Duhaut<sup>1</sup>, F. Lyard<sup>1</sup>, D. Allain<sup>1</sup>, <sup>1</sup>CNRS, France, <sup>2</sup>VAST, Vietnam</p>	<p><b>GS1A.07: Seascape connectivity shapes reserve performance on exposed coastlines</b>  N.L. Ortodossi*<sup>1</sup>, B.L. Gilby<sup>1</sup>, T.A. Schlacher<sup>1</sup>, R.M. Connolly<sup>2</sup>, N.A. Yabsley<sup>1</sup>, A.D. Olds<sup>1</sup>,  <sup>1</sup>University of The Sunshine Coast, Australia, <sup>2</sup>Griffith University, Australia</p>	<p><b>SS4Q.04: Modelling harmful algal blooms in the Hawkesbury River, Australia</b>  P. Ajani*<sup>1</sup>, M. Larsson<sup>1</sup>, A. Rubio<sup>2</sup>, S. Bush<sup>1</sup>, S. Brett<sup>3</sup>, S. Woodcock<sup>1</sup>, H. Farrell<sup>4</sup>, S. Murray<sup>1</sup>, <sup>1</sup>University of Technology Sydney, Australia, <sup>2</sup>Hornsby Shire Council, Australia, <sup>3</sup>Microalgal Services, Australia, <sup>4</sup>NSW Food Authority, Australia</p>	<p><b>SS3J.04: Carbon frontiers; Emerging environments, places and practices under blue carbon</b>  J. Atchison, University of Wollongong, Australia</p>	<p><b>SS2F.04: Approaches for the managing the ecological resilience of seagrass ecosystems</b>  K. McMahon, Edith Cowan University, Australia</p>	<p><b>SS2G.04: MicrogAMBI, a DNA bacterial community-based index to assess human impact sources in marine systems</b>  A. Borja, AZTI, Spain</p>
11:00-11:10	Synchronisation Break					

11:10-11:25	<p><b>GS1B.05: Chaining coastal evolution and storm impact models to inform adaptation to sea level rise at gravel barrier coasts</b>  B.T. Phillips*<sup>1,2</sup>, J.M. Brown<sup>1</sup>, M.D. Hurst<sup>3</sup>, G. Masselink<sup>4</sup>, T. Scott<sup>4</sup>, A.J. Plater<sup>2</sup>,  <sup>1</sup>National Oceanography Centre, UK, <sup>2</sup>University of Liverpool, UK, <sup>3</sup>Glasgow University, UK, <sup>4</sup>Plymouth University, UK</p>	<p><b>GS1A.08: Human interventions affecting the silicon cycle in the land - ocean transition in the tropics?</b>  T.C. Jennerjahn*, P. Kelm, Leibniz Centre for Tropical Marine Research, Germany</p>	<p><b>SS4Q.05: Modelling the role of effluent discharges in driving primary production and potential changes to ecosystem health</b>  J.E. Ruprecht*<sup>1</sup>, W.C. Glamore<sup>1</sup>, S. Mitrovic<sup>2</sup>, S. Birrer<sup>1</sup>, K. Dafforn<sup>1</sup>, D.S. Rayner<sup>1</sup>, <sup>1</sup>UNSW Sydney, Australia, <sup>2</sup>University of Technology Sydney, Australia</p>	<p><b>SS3J.05: Quid pro quo: Assessment of phytoplankton's ecosystem services during transient phase-shifts in eutrophic coastal waters</b>  M. Berthold*, R. Schumann, H. Schubert, University of Rostock, Germany</p>	<p><b>SS2F.05: Guiding environmental flow delivery to a hypersaline lagoon: Importance of considering life-stage specific habitat requirements for seagrass recovery</b>  P.L.A. Erftemeijer*<sup>1</sup>, M.R. Hipsey<sup>1</sup>, C.J. Collier<sup>2</sup>, K.J. Van Dijk<sup>3</sup>, N.R. Foster<sup>3</sup>, E. O'Loughlin<sup>3</sup>, K. Ticli<sup>4</sup>, M. Waycott<sup>3,4</sup>, <sup>1</sup>University of Western Australia, Australia, <sup>2</sup>James Cook University, Australia, <sup>3</sup>Adelaide University, Australia, <sup>4</sup>DEWNR State Herbarium of South Australia, Australia</p>	<p><b>SS2G.05: Environmental DNA (eDNA) metabarcoding: Lessons learnt on how to conduct biotic eDNA surveys from marine environments</b>  M. Bunce*<sup>1</sup>, M. Stat<sup>1</sup>, A. Koziol<sup>1</sup>, K. West<sup>1</sup>, T. Berry<sup>1</sup>, J. McDonald<sup>2</sup>, J. DiBattista<sup>3</sup>, E. Harvey<sup>1</sup>, <sup>1</sup>Curtin University, Australia, <sup>2</sup>Department of Primary Industries and Regional Development, Australia, <sup>3</sup>Australian Museum Research Institute, Australia</p>
11:25-11:40	<p><b>GS1B.06: Modelling sediment dynamics in coastal environments: First results with Delft3D Flexible Mesh</b>  A.A. van Rooijen*<sup>1,2</sup>, M. Gawehn<sup>3</sup>, B. Robke<sup>3</sup>,  <sup>1</sup>Deltares Australia, Australia, <sup>2</sup>University of Western Australia, Australia, <sup>3</sup>Deltares, The Netherlands</p>	<p><b>GS1A.09: Comparison of environmental conditions in two different Spitsbergen fjords (Kongsfjorden, Hornsund) based on pigments in recent sediments</b>  M. Krajewska*, M. Szymczak-Zyla, G. Kowalewska, Institute of Oceanology Polish Academy of Sciences, Poland</p>	<p><b>SS4Q.06: Nitrogen and phosphorus dynamics along the freshwater-estuarine continuum of the peri-urban Hawkesbury Nepean River - Implications for building more realistic models</b>  A.J.P. Ferguson*, J.D. Potts, P. Davies, P. Scanes, New South Wales Office of Environment and Heritage, Australia</p>	<p><b>SS3J.06: The Ecosystem Services approach to support local management of coastal areas: A case study of NW Portugal</b>  S. Ramos*<sup>1,2</sup>, J. Cunha<sup>1</sup>, C. Pita<sup>3</sup>, M. Elliott<sup>2</sup>,  <sup>1</sup>CIIMAR/CIMAR, Interdisciplinary Centre of Marine and Environmental Research, University of Porto, Portugal, <sup>2</sup>Institute of Estuarine and Coastal Studies, University of Hull, UK, <sup>3</sup>Centre for Environmental and Marine Studies (CESAM), Universidade de AVEIRO, Portugal</p>	<p><b>SS2F.06: Optimizing seagrass conservation for ecological functions</b>  C.J. Henderson*<sup>1</sup>, T.F. Stevens<sup>2</sup>, S.Y. Lee<sup>3</sup>, B.L. Gilby<sup>1</sup>, T.A. Schlacher<sup>1</sup>, R.M. Connolly<sup>2</sup>, J. Warnken<sup>2</sup>, P.S. Maxwell<sup>4</sup>, A.D. Olds<sup>1</sup>, <sup>1</sup>University of the Sunshine Coast, Australia, <sup>2</sup>Griffith University, Australia, <sup>3</sup>Chinese University of Hong Kong, China, <sup>4</sup>Healthy Land and Water, Australia</p>	<p><b>SS2G.06: Human impacts on the microbiome and condition of habitat-forming seaweeds</b>  E.M. Marzinelli*<sup>1,3</sup>, Z. Qiu<sup>1</sup>, A.H. Campbell<sup>1,2</sup>, T. Peters<sup>1,2</sup>, M.A. Coleman<sup>4</sup>, M. Mayer-Pinto<sup>1</sup>, K.A. Dafforn<sup>1</sup>, E.L. Johnston<sup>1</sup>, T. Thomas<sup>1</sup>, <sup>1</sup>UNSW, Australia, <sup>2</sup>SIMS, Australia, <sup>3</sup>SCELSE, Singapore, <sup>4</sup>NSW DPI, Australia</p>
11:40-11:55	<p><b>GS1B.07: Biogeomorphic impact of oligochaetes (Annelida) on sediment properties and <i>Salicornia</i> spp. establishment</b>  M. van Regteren*, R. Ten Boer, E.H. Meesters, A.V. de Groot, Wageningen University and Research, The Netherlands</p>	<p><b>GS1A.10: Lethal and sub lethal effects of simultaneous exposure to aluminium and hypoxia on juvenile Eastern School Prawn</b>  C.M. McLuckie*<sup>1,2</sup>, N. Moltschaniwskyj<sup>1,2</sup>, T. Gaston<sup>2</sup>, H. Dunstan<sup>2</sup>, M. Crompton<sup>2</sup>, M. Taylor<sup>1,2</sup>,</p>	<p><b>SS4Q.07: Carbon budget for a large drowned river valley estuary adjacent to an emerging megacity (Sydney Harbour)</b>  E.L. Tanner*<sup>1</sup>, B.E. Eyre<sup>2</sup>, <sup>1</sup>The University of Sydney, Australia, <sup>2</sup>Southern Cross University, Australia</p>	<p><b>SS3J.07: An innovative approach to identify, map and assess coastal and marine perceived values</b>  P. Rodriguez-Salinas*<sup>1,2</sup>, M.L. Campbell<sup>2,3</sup>, C.L. Hewitt<sup>1</sup>, E. Jackson<sup>4</sup>, <sup>1</sup>University of Waikato, New Zealand, <sup>2</sup>The Environmental Research</p>	<p><b>SS2F.07: Seagrass species traits mediate patterns of resistance against herbivory intensity</b>  T. Smith*<sup>1</sup>, A. Ricart<sup>2</sup>, R. Arthur<sup>2,4</sup>, Y. Ontoria<sup>2,5</sup>, M. Perez<sup>5</sup>, J. Romero<sup>5</sup>, F. Rossi<sup>6</sup>, N. Sanmarti<sup>5</sup>, T. Alcoverro<sup>2,4</sup>, <sup>1</sup>University of Newcastle, Australia,</p>	<p><b>SS2G.07: A baseline survey of soil eukaryotic communities from a World Heritage tropical coastal floodplain under threat from sea-level rise</b>  S. Stephenson*<sup>1</sup>, T.M. Nelson<sup>2</sup>, C. Streten<sup>2</sup>, K.S. Gibb<sup>3</sup>, D. Williams<sup>2</sup>, P. Greenfield<sup>1</sup>, A. Chariton<sup>4,1</sup>,</p>

		<sup>1</sup> Port Stephens Fisheries Institute, Australia, <sup>2</sup> University of Newcastle, Australia		Institute, University of Waikato, New Zealand, <sup>3</sup> Harry Butler Institute, Murdoch University, Australia, <sup>4</sup> Central Queensland University, Australia	<sup>2</sup> Centre d'Estudis Avançats de Blanes, Spain, <sup>3</sup> University of California, USA, <sup>4</sup> Nature Conservation Foundation, India, <sup>5</sup> University of Barcelona, Spain, <sup>6</sup> Universite Montpellier 2, France	<sup>1</sup> CSIRO, Australia, <sup>2</sup> AIMS, Australia, <sup>3</sup> Charles Darwin University, Australia, <sup>4</sup> Macquarie University Sydney, Australia
11:55-12:10	<b>GS1B.08: Effect of seagrass canopies on sediment resuspension in a shallow embayment</b> N. Contti Neto*, A. Pomeroy, R. Lowe, M. Ghisalberti, University of Western Australia, Australia		<b>SS4Q.08: Does tidally-driven sediment resuspension control nutrient cycling in a large peri-urban river?</b> J. Potts* <sup>1,3</sup> , A. Ferguson <sup>1</sup> , P. Scanes <sup>1</sup> , F. Maggi <sup>2</sup> , F. Tang <sup>2</sup> , <sup>1</sup> NSW Office of Environment and Heritage, Australia, <sup>2</sup> University of Sydney, Australia, <sup>3</sup> University of Canberra, Australia		<b>SS2F.08: Tropical seagrass community dynamics under environmental change reveal the role of biological feedbacks in influencing system resilience</b> M. Teichberg* <sup>1</sup> , A. Moreira-Saporiti <sup>1</sup> , I. González-Viana <sup>2</sup> , E.F. Belshe <sup>1</sup> , A. Fricke <sup>1</sup> , M. Mtolera <sup>3</sup> , <sup>1</sup> Leibniz Centre for Tropical Marine Research, Germany, <sup>2</sup> University of Vigo, Spain, <sup>3</sup> Institute of Marine Science, Tanzania	
12:10-12:40	Lunch   Grand River Ballroom					
12:40-13:30	Poster Session 2   Grand River Ballroom					
Room:	Golden Ballroom North	Golden Ballroom Centre	Golden Ballroom South	Hamersley	Goldsworthy	Mt Newman
13:30-15:40	<b>GS.1b Coastal morphodynamics and sediment transport</b>	<b>SS.1f Similarities, stressors and sustainability of southern hemisphere estuaries on wave-dominated coasts</b>	<b>SS.4q Keeping major urban estuaries, ports and harbours viable</b>	<b>SS.3k Estuarine ecology, fishery resources, threats and solutions towards a sustainable management</b>	<b>SS.2f Incorporating an understanding of resilience into the management, conservation and restoration of benthic primary producer habitats</b>	<b>GS.4c Case studies of eco-engineering and ecosystem restoration</b>
13:30-13:45	<b>GS1B.09: The effects of hydrodynamic forcing and vegetation morphology on the sediment budget of coastal saltmarshes</b> R.E. Reef* <sup>1,2</sup> , M. Schuerch <sup>2</sup> , E.K. Christie <sup>2</sup> , T. Spencer <sup>2</sup> , <sup>1</sup> Monash University, Australia, <sup>2</sup> Cambridge University, UK	<b>SS1F.01: Inherent sensitivities of estuaries in New South Wales, Australia, to land use pressures</b> J. Dela-Cruz*, P. Scanes, NSW Office of Environment and Heritage, Australia	<b>SS4Q.09: The efficacy of eco-engineered interventions for enhancing the native biodiversity of seawalls in harbours across the globe.</b> E.M.A. Strain* <sup>1,2</sup> , P. Steinberg <sup>1,3</sup> , E. Johnston <sup>3</sup> , M. Bishop <sup>1,4</sup> , <sup>1</sup> Sydney Institute of Marine Science, Australia, <sup>2</sup> University of Melbourne, Australia, <sup>3</sup> University of NSW, Australia, <sup>4</sup> Macquarie University, Australia	<b>SS3K.01: Modelling prey-predator interactions to investigate a low recruitment success of oyster larvae in Hiroshima Bay, Japan</b> W.P. Sasmita*, T. Yamamoto, Graduate School of Biosphere Science, Hiroshima University, Japan	<b>SS2F.09: Seagrass seeds in motion: Genetic assignment and hydrodynamic models demonstrate concordant patterns of seagrass dispersal across a natural embayment</b> E.A. Sinclair* <sup>1,2</sup> , L. Ruiz-Montoya <sup>1,2</sup> , R. Lowe <sup>4</sup> , S.L. Krauss <sup>3</sup> , J.M. Anthony <sup>3</sup> , G.A. Kendrick <sup>1,2</sup> , <sup>1</sup> School of Biological Sciences, UWA, Australia, <sup>2</sup> Oceans Institute, UWA, Australia, <sup>3</sup> Kings Park	<b>GS4C.01: Delivering valuable ecosystem services to communities around the world by restoring bivalve habitat at scale</b> B. Hancock* <sup>1</sup> , C. Gillies <sup>2</sup> , C. Shepard <sup>1</sup> , S. Branigan <sup>2</sup> , A. Nedosyko <sup>2</sup> , <sup>1</sup> The Nature Conservancy, USA, <sup>2</sup> The Nature Conservancy, Australia

					Science, Department of Biodiversity, Australia, <sup>4</sup> ARC Centre of Excellence for Coral Reef Studies, Australia	
13:45-14:00	<p><b>GS1B.10: Observing and modelling the tropical cyclone-driven sediment dynamics over the Australian North West Shelf</b> F. Dufois*, R. Lowe, M. Rayson, P. Branson, <i>University of Western Australia, Australia</i></p>	<p><b>SS1F.02: The Shoalhaven Estuary: Past, present and future dynamics of a mature wave-dominated system in Southeast Australia</b> R. Carvalho*, K. Kumbier, T.S.N. Oliver, C.D. Woodroffe, <i>University of Wollongong, Australia</i></p>	<p><b>SS4Q.10: Overcoming the seed of doubt for improved sub-tropical seagrass restoration and creation</b> E.L. Jackson*, P. Alva-Gatchalian, K. Dillon, A.D. Irving, <i>CQUniversity, Australia</i></p>	<p><b>SS3K.02: Modelling sustainable oyster culture with minimal environmental deterioration in a small embayment</b> T. Yamamoto*<sup>1</sup>, J. Yamashita<sup>1</sup>, O. Kawaguchi<sup>2</sup>, H. Mutsuda<sup>1</sup>, <i><sup>1</sup>Hiroshima University, Japan, <sup>2</sup>Hiroshima Prefectural Technology and Research Institute, Japan</i></p>	<p><b>SS2F.10: Recovery is the missing link in predicting resilience: Insights from seagrass ecosystems</b> K.R. O'Brien*<sup>1</sup>, M.P. Adams<sup>1</sup>, M. Waycott<sup>2-3</sup>, K. McMahon<sup>4</sup>, K. Kilminster<sup>5</sup>,<sup>6</sup>, P. Maxwell<sup>7</sup>, C. Collier<sup>8</sup>, <i><sup>1</sup>School of Chemical Engineering, University of Queensland, Australia, <sup>2</sup>School of Biological Sciences, The University of Adelaide, Australia, <sup>3</sup>Plant Biodiversity Centre, Australia, <sup>4</sup>Edith Cowan University, Australia, <sup>5</sup>WA Department of Water, Australia, <sup>6</sup>The University of Western Australia, Australia, <sup>7</sup>Healthy Land and Water, Australia, <sup>8</sup>James Cook University, Australia</i></p>	<p><b>GS4C.02: Relationships between distribution of benthic invertebrates and environmental factors in Lake Nakaumi, Japan</b> K. Kurata*<sup>1</sup>, K. Seto<sup>1</sup>, T. Sonoda<sup>2</sup>, K. Yamaguchi<sup>1</sup>, <i><sup>1</sup>Shimane University, Japan, <sup>2</sup>Tokyo University of Agriculture, Japan</i></p>
14:00-14:15	<p><b>GS1B.11: Turbidity, dredging and tidal amplitude: Data from heavily industrialised macrotidal systems</b> S.B. Mitchell*<sup>1</sup>, R.J. Uncles<sup>1</sup>, <i><sup>1</sup>University of Portsmouth, UK, <sup>2</sup>Plymouth Marine Laboratory, UK</i></p>	<p><b>SS1F.03: Altered reality: Implications of catastrophic events for trophic state of estuarine lagoons</b> P.R. Scanes*, J.D. Potts, A. Ferguson, J. Dela Cruz, <i>NSW Office of Environment and Heritage, Australia</i></p>	<p><b>SS4Q.11: Urban-related distribution patterns of the giant Pacific octopus (<i>Enteroctopus dofleini</i>) in Puget Sound, Washington, USA</b> E.C. Heery*<sup>1,2</sup>, A.Y. Olsen<sup>3</sup>, B.E. Feist<sup>4</sup>, K.P. Sebens<sup>1,5</sup>, <i><sup>1</sup>National University of Singapore, Singapore, <sup>2</sup>University of Washington, USA, <sup>3</sup>Seattle Aquarium, USA, <sup>4</sup>Northwest Fisheries Science Center (NOAA), USA, <sup>5</sup>Friday Harbor Laboratories, USA</i></p>	<p><b>SS3K.03: Importance of estimating predation rates to increase the success of aquaculture-based enhancements</b> B. Poh*<sup>1</sup>, J.R. Tweedley<sup>1</sup>, J.A. Chaplin<sup>1</sup>, K.M. Trayler<sup>2</sup>, N.R. Loneragan<sup>1</sup>, <i><sup>1</sup>Murdoch University, Australia, <sup>2</sup>Department of Parks and Wildlife, Australia</i></p>	<p><b>SS2F.11: Hierarchical monitoring improves managers' confidence of the trajectory of recover - a seagrass example</b> K.L. Kilminster*<sup>1,2</sup>, M. Sanchez-Alarcon<sup>1</sup>, K. Bennett<sup>1</sup>, <i><sup>1</sup>Department of Water and Environmental Regulation, Australia, <sup>2</sup>University of Western Australia, Australia</i></p>	<p><b>GS4C.03: Biomanipulative approaches can break persistent cyanobacterial blooms in eutrophic temperate lagoons</b> M. Berthold*, V. Reiff, R. Wulff, R. Schumann, <i>University of Rostock, Germany</i></p>



14:15-14:30	<b>GS1B.12: Influence of dike-induced morphologic and sedimentologic changes on the benthic ecosystem in the sheltered tidal flats, Shinsi Island, Saemangeum area, west coast of Korea</b> D. Kim <sup>1</sup> , J. Jo <sup>1</sup> , J. Ryu <sup>2</sup> , K. Choi <sup>*1</sup> , <sup>1</sup> Seoul National University, Republic of Korea, <sup>2</sup> Anyang University, Republic of Korea	<b>SS1F.04: Land use and regeneration capacity in a vulnerable ecosystem: A case study in mangrove areas in a Brazilian coastal city</b> C.T. Andreu, D.A. de Carvalho, K.S. de Oliveira, D. Honorio, M.C. Las Casas, M.C. Miraldo, M. Silveira, D.M. De Freitas*, São Paulo State University UNESP, Brazil	<b>SS4Q.12: Structurally complex habitats shape patterns of predation in estuaries</b> B. Gorissen <sup>*1</sup> , C.J. Henderson <sup>1</sup> , B.L. Gilby <sup>1</sup> , T.A. Schlacher <sup>1</sup> , R.M. Connolly <sup>2</sup> , A.D. Olds <sup>1</sup> , <sup>1</sup> University of the Sunshine Coast, Australia, <sup>2</sup> Griffith University, Australia	<b>SS3K.04: Marked changes in the abundance of an obligate estuarine penaeid over five years following restocking and atypical climatic conditions</b> N.R. Loneragan*, J.R. Tweedley, B. Poh, J.A. Crisp, Murdoch University, Australia	<b>SS2F.12: Resistance and recovery of an estuarine seagrass to extreme summer rainfall events</b> C. Webster <sup>*1</sup> , K. McMahon <sup>1</sup> , K. Kilminster <sup>2</sup> , M. Sanchez-Alarcon <sup>2</sup> , K. Bennett <sup>2</sup> , <sup>1</sup> Edith Cowan University, Australia, <sup>2</sup> Department of Water and Environmental Regulation, Australia	<b>GS4C.04: An unexpected Atlantis: Can artificial structures be used in the conservation of an endangered seahorse species?</b> L. Claassens <sup>*1,2</sup> , A.N. Hodgson <sup>1,2</sup> , B.R. Allanson <sup>2</sup> , <sup>1</sup> Rhodes University, South Africa, <sup>2</sup> Knysna Basin Project, South Africa
14:30-14:40	Synchronization Break					
14:40-14:55	<b>GS1B.13: A study on the coastal conservation method due to application of artificial reefs and mesh system</b> K-H. Kim, B-S. Shin, K-T. Shim*, Catholic Kwandong University, Republic of Korea	<b>SS1F.05: Saltmarsh in South Africa: Patterns, processes and predicted responses to climate change</b> J.B. Adams*, T. Riddin, S. Mbense, Nelson Mandela University, South Africa	<b>SS4Q.13: Benthic macroinvertebrate community response to varying sediment condition in a temperate, microtidal estuary</b> S. Cronin-O'Reilly*, C. Hallett, F. Valesini, Murdoch University, Australia	<b>SS3K.05: How stable are stable isotopes of carbon for estuarine zooplankton? An examination of zooplankton in three rivers during a period of variable freshwater inflows</b> E. Johnson <sup>*1</sup> , J. Hitchcock <sup>1</sup> , W. Hadwen <sup>2</sup> , D. Westhorpe <sup>3</sup> , S. Mitrovic <sup>1</sup> , <sup>1</sup> University of Technology Sydney, Australia, <sup>2</sup> Griffith University, Australia, <sup>3</sup> NSW Industry - Water, Australia	<b>SS2F.13: Dynamics of Zostera meadows in estuaries: The roles of salinity and light</b> T.M. Glasby, NSW Department of Primary Industries, Australia	<b>GS4C.05: Mud motor: Using dredged sediment disposal to stimulate salt marsh development</b> M. van Regteren <sup>*1</sup> , I. Colosimo <sup>2</sup> , E.H. Meesters <sup>1</sup> , A.V. de Groot <sup>1</sup> , K. Elscho <sup>1</sup> , B. van Prooijen <sup>2</sup> , M.J. Baptist <sup>1</sup> , <sup>1</sup> Wageningen University and Research, The Netherlands, <sup>2</sup> Technical University Delft, The Netherlands
14:55-15:10	<b>GS1B.14: Modelling reef carbonate production with low-lying island stability under sea level rise and increased cyclone severity in the Pilbara, Western Australia</b> N.K. Browne <sup>*1</sup> , M. O'Leary <sup>1</sup> , S. Dee <sup>1</sup> , R. Lowe <sup>2</sup> , <sup>1</sup> Curtin University, Australia, <sup>2</sup> UWA, Australia	<b>SS1F.06: Mangrove accommodation space in Northern Australia and implications of a rising sea level</b> C.D. Woodroffe*, K. Rogers, K. Kumbier, R. Salum, University of Wollongong, Australia	<b>SS4Q.14: Mud crabs as biological indicators for an estuarine industrial port</b> N. Flint*, A. Anastasi, J. De Valck, E. Chua, A. Rose, E.L. Jackson, Central Queensland University, Australia	<b>SS3K.06: Linking wetland habitats to fisheries productivity: The importance of saltmarsh</b> V. Raoul <sup>*1</sup> , T.F. Gaston <sup>1</sup> , M.D. Taylor <sup>2</sup> , <sup>1</sup> University of Newcastle, New South Wales, Australia, <sup>2</sup> New South Wales Department of Primary Industries, New South Wales, Australia	<b>SS2F.14: Seagrass vulnerability and resilience: The threat of sedimentation</b> S.T. Sorensen <sup>*1</sup> , M.L. Campbell <sup>2</sup> , M. Manley-Harris <sup>1</sup> , <sup>1</sup> University of Waikato, New Zealand, <sup>2</sup> Murdoch University, Australia	<b>GS4C.06: Estuary edges ecological enhancement: Application to a heavily modified estuary in North East England</b> S.J. Boyes <sup>1</sup> , N.D. Cutts <sup>1</sup> , A. Franco <sup>1</sup> , S.M. Thomson <sup>1</sup> , M. Elliott <sup>*1</sup> , G. Hull <sup>2</sup> , B. Lamb <sup>3</sup> , <sup>1</sup> University of Hull, UK, <sup>2</sup> Environment Agency, UK, <sup>3</sup> Tees Rivers Trust, UK
15:10-15:25	<b>GS1B.15: Flood management trigger levels</b> J.M. Brown <sup>*1</sup> , T. Prime <sup>1</sup> , T. Pullen <sup>2</sup> , P. Wisse <sup>3</sup> , A. Martin <sup>3</sup> , L.O. Amoudry <sup>1</sup> , <sup>1</sup> National Oceanography Centre, UK, <sup>2</sup> HR Wallingford, UK, <sup>3</sup> Sefton Council, UK	<b>SS1F.07: That sinking feeling - Influence of biophysical processes on mangrove forest resilience to sea-level rise</b> A. Swales <sup>*1</sup> , G. Reeve <sup>1</sup> , D.R. Cahoon <sup>2</sup> , C.E. Lovelock <sup>3</sup> , P. Denys <sup>4</sup> ,	<b>SS4Q.15: Knowledge requirements for proactively managing estuarine algal blooms</b> P.W. Coad <sup>*1</sup> , A. Rubio <sup>1</sup> , P. Ajani <sup>2</sup> , S. Murray <sup>2</sup> , <sup>1</sup> Hornsby Shire Council, Australia, <sup>2</sup> Univeristy of	<b>SS3K.07: An estimation of the average residence times and onshore-offshore diffusivities of beached microplastics</b> H. Hinata <sup>*1</sup> , K. Mori <sup>1</sup> , K. Ohno <sup>1</sup> , Y. Miyao <sup>1</sup> , T. Kataoka <sup>1,2</sup> , <sup>1</sup> Ehime	<b>SS2F.15: Seagrasses root for their microbiomes even during dark times</b> B.C. Martin <sup>*1</sup> , D. Gleeson <sup>1</sup> , J. Statton <sup>1,2</sup> , A.R. Siebers <sup>1</sup> , P. Grierson <sup>1</sup> , M.H. Ryan <sup>1</sup> , G.A. Kendrick <sup>1,2</sup> , <sup>1</sup> The University of Western	<b>GS4C.07: Prioritising restoration on coastal floodplains: Manning River, NSW case study</b> D. Rayner*, W. Glamore, J. Ruprecht, University of New South Wales, Australia

		<i><sup>1</sup>National Institute of Water and Atmospheric Research, New Zealand, <sup>2</sup>U.S. Geological Survey, USA, <sup>3</sup>The University of Queensland, Australia, <sup>4</sup>The University of Otago, New Zealand</i>	<i>Technology, Sydney, Australia</i>	<i>University, Japan, <sup>2</sup>Tokyo University of Science, Japan</i>	<i>Australia, Australia, <sup>2</sup>Western Australian Marine Science Institution, Australia</i>	
15:25-15:40	<b>GS1B.16: Modelling drag, inertia and porous effects on wave propagation in dense coastal forests</b> T. Suzuki <sup>1,2</sup> , Z. Hu <sup>3</sup> , K. Kumada <sup>4</sup> , L. Phan <sup>2</sup> , M. Zijlema <sup>2</sup> , <sup>1</sup> Flanders Hydraulics Research, Belgium, <sup>2</sup> Delft University of Technology, The Netherlands, <sup>3</sup> Sun Yat-sen University, China, <sup>4</sup> Katholieke Universiteit Leuven, Belgium	<b>SS1F.08: Drivers of mangrove distribution along the high-energy coastline of South Africa</b> J.L. Raw <sup>*1</sup> , J.B. Adams <sup>1</sup> , L. van Niekerk <sup>2</sup> , J.A. Godbold <sup>3</sup> , <sup>1</sup> Nelson Mandela University, South Africa, <sup>2</sup> Council for Scientific and Industrial Research, South Africa, <sup>3</sup> University of Southampton, UK	<b>SS4Q.16: Balancing estuarine and societal health in a changing environment</b> F. Valesini <sup>*1</sup> , M. Hipsey <sup>2</sup> , B. Eyre <sup>3</sup> , K. Kilminster <sup>4</sup> , P. Plummer <sup>2</sup> , M. Elliott <sup>5</sup> , C. Hallett <sup>1</sup> , P. Huang <sup>2</sup> , N. Wells <sup>3</sup> , K. Hennig <sup>4</sup> , <sup>1</sup> Murdoch University, Australia, <sup>2</sup> The University of Western Australia, Australia, <sup>3</sup> Southern Cross University, Australia, <sup>4</sup> Department of Water and Environmental Regulation, Australia, <sup>5</sup> University of Hull, UK	<b>SS3K.08: Nano-particle transport and sequestration: Intracellular titanium dioxide nano-particles</b> I.C. Souza <sup>*1,4</sup> , V.A.S. Mendes <sup>1</sup> , I.D. Duarte <sup>2</sup> , L.D. Rocha <sup>2</sup> , V.C. Azevedo <sup>3</sup> , S.T. Matsumoto <sup>2</sup> , M. Elliot <sup>4</sup> , D.A. Wunderlin <sup>5</sup> , M.V. Monferrán <sup>5</sup> , M.N. Fernandes <sup>1</sup> , <sup>1</sup> Universidade Federal de São Carlos, Brazil, <sup>2</sup> Universidade Federal do Espírito Santo, Brazil, <sup>3</sup> Simon Fraser University, Canada, <sup>4</sup> University of Hull, UK, <sup>5</sup> Universidad Nacional de Cordoba, Argentina	<b>SS2F.16: The importance of including belowground measurements in seagrass management and conservation plans</b> M.W. Fraser <sup>*1</sup> , G.A. Kendrick <sup>1</sup> , M.J. Rule <sup>2</sup> , B.C. Martin <sup>1</sup> , <sup>1</sup> The University of Western Australia, Australia, <sup>2</sup> Conservation and Attractions, Australia	
15:40-16:10	Refreshment Break   Grand River Ballroom					
Room:	Golden Ballroom North	Golden Ballroom Centre	Golden Ballroom South	Hamersley	Goldsworthy	
16:10-17:40	<b>GS.4a Socio-ecological dynamics, resilience and regime shifts</b>	<b>SS.1f Similarities, stressors and sustainability of southern hemisphere estuaries on wave-dominated coasts</b>	<b>SS.4q Keeping major urban estuaries, ports and harbours viable</b>	<b>SS.3k Estuarine ecology, fishery resources, threats and solutions towards a sustainable management</b>	<b>GS.3c Aquaculture</b>	
16:10-16:25	<b>GS4A.01: Bridging the great divide: Science integration into management of a RAMSAR listed wetland</b> K. Lynch*, K. Kilminster, L. Kalnejais, Department of Water and Environmental Regulation, Australia	<b>SS1F.09: Mangrove Dieback in Kakadu National Park, Northern Australia</b> E. Asbridge <sup>*1</sup> , K. Rogers <sup>1</sup> , R. Lucas <sup>2</sup> , C. Woodroffe <sup>1</sup> , R. Bartolo <sup>3</sup> , M. Finlayson <sup>4</sup> , <sup>1</sup> University of Wollongong, Australia, <sup>2</sup> Aberystwyth University, UK, <sup>3</sup> Environmental Research Institute of the Supervising Scientist, Australia, <sup>4</sup> Charles Sturt University, Australia	<b>SS4Q.17: Balancing the needs of the environment, industry and citizens in urban marine settings: Creating win-win opportunities for all in the 21st century</b> C.L. Hewitt <sup>*1</sup> , M.L. Campbell <sup>2</sup> , <sup>1</sup> University of Waikato, New Zealand, <sup>2</sup> Murdoch University, Australia	<b>SS3K.09: Catchment stressors and fisheries productivity: A tale of the humble school prawn</b> M.D. Taylor <sup>1,2</sup> , C. Mckluckie <sup>1,2</sup> , A. Russell <sup>1,2</sup> , R.H. Dunstan <sup>2</sup> , G. Mcfarlane <sup>2</sup> , N.R. Loneragan <sup>*3</sup> , N.A. Moltschaniwskyj <sup>1,2</sup> , <sup>1</sup> Port Stephens Fisheries Institute, Australia, <sup>2</sup> University of Newcastle, Australia, <sup>3</sup> Murdoch University, Australia	<b>GS3C.01: Let's get ready to rumble: How does increasing motion affect oyster shape</b> T. Smith <sup>*1</sup> , E. Wilkie <sup>2</sup> , V. Raoult <sup>1</sup> , T. Gaston <sup>1</sup> , <sup>1</sup> University of Newcastle, Australia, <sup>2</sup> Select Oyster Company, Australia	

16:25-16:40	<p><b>GS4A.02: Deliberate transformation of fishery social-ecological systems: The Bahamas spiny lobster fishery improvement project experience</b> K.L. Thomas Travaille*<sup>1,3</sup>, J. Clifton<sup>1</sup>, J. Lindley<sup>2</sup>, L. Crowder<sup>3</sup>, <sup>1</sup>UWA Oceans Institute, The University of Western Australia, Australia, <sup>2</sup>School of Law, The University of Western Australia, Australia, <sup>3</sup>Hopkins Marine Station, Stanford University, USA</p>	<p><b>SS1F.10: Mangrove revegetation as a means of restoring macrofaunal communities along degraded coasts</b> D. Gorman*, A. Turra, Universidade de São Paulo, Brazil</p>	<p><b>SS4Q.18: Threats and risks to sustainability of NSW estuaries</b> P.R. Scanes, NSW Office of Environment and Heritage, Australia</p>	<p><b>SS3K.10: Citizen science helping make the management of data-poor, small-scale recreational fisheries cost effective</b> D. Harris*, D. Johnston, Department of Primary Industries and Regional Development, Australia</p>	<p><b>GS3C.02: Optimum temperature and diet for the growth and digestion physiology of hybrid grouper (<i>Epinephelus fuscoguttatus</i> ♀ × <i>E. lanceolatus</i> ♂)</b> S.K. Das*<sup>1,2</sup>, M. De<sup>1</sup>, M.A. Ghaffar<sup>1</sup>, <sup>1</sup>National University of Malaysia, Malaysia, <sup>2</sup>Universiti Malaysia Terengganu, Malaysia</p>
16:40-16:55	<p><b>GS4A.03: Social-environmental analysis of methane in the South China Sea and bordering countries</b> H.C. Tseng*<sup>1,2</sup>, A. Newton<sup>1,4</sup>, C.T.A. Chen<sup>3</sup>, A. V. Borges<sup>5</sup>, T.A. DelValls<sup>1</sup>, <sup>1</sup>CIMA, Universidade do Algarve, Portugal, <sup>2</sup>University of Cadiz, Spain, <sup>3</sup>National Sun Yat-sen University, Taiwan, <sup>4</sup>NILU-IMPEC, Norway, <sup>5</sup>Université de Liège, Belgium</p>	<p><b>SS1F.11: First report on carbon storage in warm-temperate mangroves of South Africa</b> J.L. Johnson*, J.B. Adams, J.L. Raw, Nelson Mandela University, South Africa</p>	<p><b>SS4Q.19: Modeling changes in the tidal propagation and its implication for vessel navigation in Guadalquivir Estuary (Spain)</b> J. Delgado*<sup>1</sup>, J. Moreno-Navas<sup>1</sup>, A. Pulido<sup>2</sup>, R. García<sup>2</sup>, J. García-Lafuente<sup>1</sup>, <sup>1</sup>Málaga University, Spain, <sup>2</sup>Port Authority of Sevilla, Spain</p>	<p><b>SS3K.11: The rise and fall of a coastal marine embayment blue swimmer crab fishery</b> D. Johnston*, R. Marks, A. Denham, A. Hesp, S.D. Lestang, N. Caputi, Department of Primary Industries and Resource Development, Australia</p>	<p><b>GS3C.03: Biodiversity retention in mangrove-derived brackishwater ponds: Bycatch from aquaculture</b> T.U. Bagarinao, SEAFDEC Aquaculture Department, The Philippines</p>
16:55-17:10	<p><b>GS4A.04: Anticipating pathways for marine science in a changing world</b> K.S. McDonald*<sup>1</sup>, A.J. Hobday<sup>1,2</sup>, E.A. Fulton<sup>1,2</sup>, P.A. Thompson<sup>1</sup>, <sup>1</sup>CSIRO, Australia, <sup>2</sup>CMS, Australia</p>	<p><b>SS1F.12: Sea-level change, mangrove shorelines and carbon storage in the southern hemisphere</b> K. Rogers*<sup>1</sup>, N. Saintilan<sup>2</sup>, C.D. Woodroffe<sup>1</sup>, <sup>1</sup>University of Wollongong, Australia, <sup>2</sup>Macquarie University, Australia</p>	<p><b>SS4Q.20: Challenges of managing swimming sites in estuaries downstream of urbanisation</b> A. Rubio*<sup>1</sup>, D. Cummings<sup>1</sup>, J. Ryland<sup>1</sup>, P. Coad<sup>1</sup>, R. Kadluczka<sup>2</sup>, B. McPherson<sup>2</sup>, <sup>1</sup>Hornsby Shire Council, Australia, <sup>2</sup>Manly Hydraulics Laboratory, Australia</p>	<p><b>SS3K.12: Beyond biology: Understanding the social dimensions of Blue Swimmer Crab fishing to help inform management</b> S.J. Poulton*, M. Hughes, J. Tweedley, C. Obregon, N. Loneragan, Murdoch University, Australia</p>	<p><b>GS3C.04: Novel ecosystems promoted by small-scale bivalve's aquaculture in Chile, implications for conservation within coastal systems</b> L. Henríquez*, S. Cook, P. Leal, F. Cárcamo, Instituto de Fomento Pesquero, Chile</p>
17:10-17:25			<p><b>SS4Q.21: Spatiotemporal variation in abundance of human pathogenic bacteria in waters and fishes of monsoonal estuary</b> V.S. Damare*, V.M. Shet, S. Naik, R. Barve, Goa University, India</p>	<p><b>SS3K.13: Modelling the structure and processes of an ecosystem formed by artificial timber reefs</b> J.F. Alam*<sup>1</sup>, T. Yamamoto<sup>1</sup>, T. Umino<sup>1</sup>, S. Nakahara<sup>2</sup>, K. Hiraoka<sup>2</sup>, <sup>1</sup>Graduate School of Biosphere Science, Hiroshima University, Japan, <sup>2</sup>Hiroshima Environmental and Health Association, Japan</p>	<p><b>GS3C.05: Benthic responses, salmon farming and depleted oxygen levels in Macquarie Harbour, Tasmania</b> J. Ross*<sup>1</sup>, C. MacLeod<sup>1</sup>, A. Davey<sup>1</sup>, K. Stehfest<sup>1</sup>, J. Semmens<sup>1</sup>, K. Wild-Allen<sup>2</sup>, J. Andrewartha<sup>2</sup>, <sup>1</sup>Institute for Marine and Antarctic Studies, University of Tasmania, Australia,</p>

					<sup>2</sup> CSIRO, Australia
17:25-17:40				<p><b>SS3K.14: Divergent use of a South-Western Australian estuary by four key fishery species: Evidence from acoustic telemetry</b></p> <p>D.E. Yeoh*<sup>1</sup>, F.J. Valesini<sup>1</sup>, J. Williams<sup>2</sup>, C.S. Hallett<sup>1</sup>, D.A. Abdo<sup>3</sup>, <sup>1</sup>Murdoch University, Australia, <sup>2</sup>Port Stephens Fisheries Institute, NSW Department of Primary Industries, Australia, <sup>3</sup>WA Department of Primary Industries and Regional Development, Australia</p>	<p><b>GS3C.06: World's best practice in environmental management for aquaculture - What is it? Who does it? How does it fit in with planning?</b></p> <p>C.K. Macleod, D.J. Ross*, F.T. Bush, <i>University of Tasmania, Australia</i></p>
18:00-23:00	Conference Dinner (Optional Ticketed Event)   Mandoon Estate, Swan Valley				

Thursday 6 September 2018

08:00-08:30	Arrival Tea & Coffee   Function Floor Foyer					
Room:	Golden Ballroom					
08:30-09:15	<b>[KEY5] What really is coastal sustainability?</b> Christopher D'Elia, <i>Louisiana State University, USA</i>					
09:15-10:00	<b>[KEY6] The Great Barrier Reef: Modelling to support science and policy for a natural wonder of the world</b> Barbara Robson, <i>Australian Institute of Marine Science, Australia</i>					
10:00-10:30	Refreshment Break   Grand River Ballroom					
Room:	Golden Ballroom North	Golden Ballroom Centre	Golden Ballroom South	Hamersley	Goldsworthy	Mt Newman
10:30-13:10	<b>SS.1j Coastal response to a changing climate</b>	<b>GS.1d Biogeochemistry and element cycling</b>	<b>SS.4h Assessing cumulative impacts and risks to marine ecosystem values</b>	<b>SS.4p Applied solutions for sustainable and resilient estuaries and coasts</b>	<b>SS.4o Matching scales and optimizing designs: From observational to modelling and assessing approaches for understanding estuarine and coastal system dynamics</b>	<b>GS.3a Sustainable natural resource exploitation</b>
10:30-10:45	<b>SS1J.01: Dynamics of sedimentary coasts in northern Australia observed in the dense 30 years' time-series of Landsat data</b> S. Sagar*, L. Lymburner, R. Bishop-Taylor, C. Phillips, B.P. Brooke, <i>Geoscience Australia, Australia</i>	<b>GS1D.01: Organic matters: Carbon fluxes in an urban coastal catchment</b> J.A. Middleton*, L.S. Beesley, N. Pettit, P. Grierson, <i>The University of Western Australia, Australia</i>	<b>SS4H.01: Impacts on a shelf-sea and ecological costs of climate change and tidal energy extraction</b> M. De Dominicis <sup>*1</sup> , J. Wolf <sup>1</sup> , R. O'Hara Murray <sup>2</sup> , D. Sadykova <sup>3,4</sup> , B.E. Scott <sup>3</sup> , A. Sadykov <sup>3,4</sup> , <sup>1</sup> National Oceanography Centre, UK, <sup>2</sup> Marine Scotland Science, UK, <sup>3</sup> University of Aberdeen, UK, <sup>4</sup> Queen's University Belfast, UK	<b>SS4P.01: Systematic landscape restoration: Planning for more effective and efficient restoration</b> B.L. Gilby <sup>*1</sup> , A.D. Olds <sup>1</sup> , R.M. Connolly <sup>2</sup> , C.J. Brown <sup>2</sup> , C.J. Henderson <sup>2</sup> , P.S. Maxwell <sup>3</sup> , T.A. Schlacher <sup>1</sup> , <sup>1</sup> University of the Sunshine Coast, Australia, <sup>2</sup> Griffith University, Australia, <sup>3</sup> Healthy Land and Water, Australia	<b>SS4O.01: Bringing the model closer to the observations: Novel approaches in a Great Barrier Reef biogeochemical model to improve model - data integration</b> M.E. Baird <sup>*1</sup> , K.A. Wild-Allen <sup>1</sup> , M. Mongin <sup>1</sup> , J. Skerratt <sup>1</sup> , E.M. Jones <sup>1</sup> , N. Margvelashvili <sup>1</sup> , M. Soja-Wozniak <sup>1</sup> , B.J. Robson <sup>2</sup> , <sup>1</sup> CSIRO, Australia, <sup>2</sup> Australian Institute of Marine Science, Australia	<b>GS3A.01: Factors associated with temporal changes in growth of a crustacean species in a temperate marine embayment</b> R. Marks <sup>*1,2</sup> , A. Hesp <sup>1</sup> , D. Johnston <sup>1</sup> , N. Loneragan <sup>2</sup> , <sup>1</sup> Department of Primary Industries and Regional Development, Australia, <sup>2</sup> Murdoch University, Australia
10:45-11:00	<b>SS1J.02: The long-term hydrologic evolution of an estuarine lagoon jointly affected by a drying climate trend and an artificial channel</b> P. Huang <sup>*1</sup> , K. Hennig <sup>2</sup> , J. Kala <sup>3</sup> , M. Hipsey <sup>1</sup> , <sup>1</sup> University of Western Australia, Australia, <sup>2</sup> Department of Water and Environment Regulation, Australia, <sup>3</sup> Murdoch University, Australia	<b>GS1D.02: Iron as a control for estuarine nitrogen cycling</b> A.J. Kessler <sup>*1</sup> , A. Bissett <sup>2</sup> , K.L. Roberts <sup>1</sup> , P.L.M. Cook <sup>1</sup> , <sup>1</sup> Monash University, Australia, <sup>2</sup> CSIRO Oceans and Atmosphere, Australia	<b>SS4H.02: In situ exposure to pile driving: Swim bladder barotrauma in Atlantic cod (<i>Gadus morhua</i>)</b> A. De Backer <sup>*1</sup> , E. Debusschere <sup>2</sup> , J. Ranson <sup>1</sup> , K. Hostens <sup>1</sup> , <sup>1</sup> Flanders Research Institute for Agriculture, Belgium, <sup>2</sup> Flanders Marine Institute (VLIZ), Belgium	<b>SS4P.02: Lost fish nursery function of coastal floodplains and systems repair in the Great Barrier Reef lagoon</b> N. Waltham <sup>*1</sup> , D. Burroes <sup>1</sup> , C. Wegscheid <sup>2</sup> , C. Beulow <sup>1</sup> , M. Ronan <sup>2</sup> , N. Connolly <sup>3</sup> , D. Audas <sup>3</sup> , P. Groves <sup>3</sup> , C. Creighton <sup>1</sup> , M. Sheaves <sup>1</sup> , <sup>1</sup> James Cook University, Australia, <sup>2</sup> Queensland Government, Australia, <sup>3</sup> Australian	<b>SS4O.02: Hybrid approach to simulating 100-year changes in estuary morphology and flood risk</b> J.R. French*, H. Burningham, <i>University College London, UK</i>	<b>GS3A.02: Survey design to assess biological characteristics in recreational fisheries</b> C.J. Desfosses*, K.L. Ryan, F.I. Trinnie, N.G. Hall, <i>Department of Primary Industries and Regional Development, Australia</i>

				<i>Government, Australia</i>		
11:00-11:15	<p><b>SS1J.03: Evolution of starved coastal systems in relation to sea level rise and ocean acidification (Mediterranean Sea)</b> S. Simeone*<sup>1</sup>, E. Molinaroli<sup>2</sup>, A. Conforti<sup>1</sup>, W. Brambilla<sup>1</sup>, G. De Falco<sup>1</sup>, <sup>1</sup>Istituto per l'Ambiente Marino Costiero - C.N.R. Sede Secondaria Oristano, Italy, <sup>2</sup>Università Ca' Foscari, Venice, Italy, Italy</p>	<p><b>GS1D.03: Nitrogen biogeochemistry of submarine groundwater discharge: Insights from two stable isotope approaches</b> W.W. Wong*, A.J. Applegate, P.L.M. Cook, Monash University, Australia</p>	<p><b>SS4H.03: Melting ice – Challenges and opportunities from increased cruise tourism in the Arctic</b> U. Kronfeld-Goharani, Kiel University, Germany</p>	<p><b>SS4P.03: Impact of sediment augmentation on vegetation and invertebrate communities in a southern California coastal wetland</b> K. McAtee, C.R. Whitcraft*, California State University Long Beach, USA</p>	<p><b>SS4O.03: Rethinking the sampling designs for multispecies surveys: The role of species associations</b> C. Zhang*<sup>1</sup>, Y. Chen<sup>2</sup>, B. Xu<sup>1</sup>, Y. Xue<sup>1</sup>, Y. Ren<sup>1</sup>, <sup>1</sup>Ocean University of China, China, <sup>2</sup>University of Maine, USA</p>	<p><b>GS3A.03: Sustainable management of coastal fishery catch using Ecopath with Ecosim model in the western part of Wakasa Bay, the Sea of Japan</b> H. Inoue*, H. Sawada, Y. Yamashita, Kyoto University, Japan</p>
11:15-11:30	<p><b>SS1J.04: Sediment supply and accommodation space dictate the adaptation of microtidal barrier-lagoon systems to sea level rise</b> G. De Falco*<sup>1</sup>, A. Conforti<sup>1</sup>, W. Brambilla<sup>1</sup>, E. Molinaroli<sup>2</sup>, S. Simeone<sup>1</sup>, C. Del Vais<sup>3</sup>, I. Sanna<sup>4</sup>, V. Pascucci<sup>5</sup>, <sup>1</sup>National Research Council, Italy, <sup>2</sup>University of Venice, Italy, <sup>3</sup>University of Cagliari, Italy, <sup>4</sup>Soprintendenza APAB, Italy, <sup>5</sup>University of Sassari, Italy</p>	<p><b>GS1D.04: Isotopic indicators of seasonally shifting sources of carbon and nitrogen to a highly modified estuarine system (Vasse Wonnerup)</b> R. McCallum*<sup>1</sup>, G. Hydes<sup>1</sup>, K. McMahon<sup>1</sup>, B. Eyre<sup>2</sup>, J. Oakes<sup>2</sup>, N. Wells<sup>2</sup>, J. Chambers<sup>3</sup>, <sup>1</sup>Edith Cowan University, Australia, <sup>2</sup>Southern Cross University, Australia, <sup>3</sup>Murdoch University, Australia</p>	<p><b>SS4H.04: Aggregating multiple indicators for a holistic integrated approach, in assessing the environmental status of Saronikos Gulf, Eastern Mediterranean</b> A. Borja*<sup>1</sup>, A. Pavlidou<sup>2</sup>, N. Simboura<sup>2</sup>, <sup>1</sup>AZTI, Spain, <sup>2</sup>HCMR, Greece</p>	<p><b>SS4P.04: Mitigating low oxygen conditions in the eutrophic Vasse Estuary via artificial oxygenation - A 2-year trial</b> R. Kam*, S. Larsen, Government of Western Australia, Australia</p>	<p><b>SS4O.04: Developing a new framework to incorporate prey abundance in species distribution models</b> Y. Xue*<sup>1,2</sup>, K. Tanaka<sup>2</sup>, H. Yu<sup>1</sup>, Y. Chen<sup>2</sup>, C. Zhang<sup>1</sup>, B. Xu<sup>1</sup>, Y. Ren*<sup>1</sup>, <sup>1</sup>Ocean University of China, China, <sup>2</sup>University of Maine, USA</p>	<p><b>GS3A.04: Abundance and size trends for North Western Australian sharks are cause for optimism for global shark conservation</b> M. Braccini*, B. Molony, Department of Primary Industries and Regional Development, Australia</p>
11:30-11:45	<p><b>SS1J.05: Application of geomorphic frameworks to sea-level rise impact assessment</b> M.J. Eliot*<sup>1,2</sup>, T. Stul<sup>1</sup>, I.G. Eliot<sup>1</sup>, <sup>1</sup>Damara WA Pty Ltd, Australia, <sup>2</sup>University of Western Australia, Australia</p>	<p><b>GS1D.05: Changing types of organic detritus influences nitrogen cycling rates in temperate estuary sediments</b> J. Crawshaw*<sup>1</sup>, T. O'Meara<sup>2</sup>, C. Savage<sup>1,3</sup>, B. Thompson<sup>1</sup>, F. Baltar<sup>1</sup>, S. Thrush<sup>2</sup>, <sup>1</sup>University of Otago, New Zealand, <sup>2</sup>University of Auckland, New Zealand, <sup>3</sup>University of Cape Town, South Africa</p>	<p><b>SS4H.05: Spatial cumulative impact assessment: Using ports and shipping in Spencer Gulf, South Australia as a case study</b> B.M. Gillanders*<sup>1</sup>, A. Jones<sup>1</sup>, Z. Doubleday<sup>1</sup>, P. Cassey<sup>1</sup>, T. Prowse<sup>1</sup>, S. Scrivens<sup>1</sup>, F. Bailleul<sup>2</sup>, M. Deveney<sup>2</sup>, S. Goldsworthy<sup>2</sup>, C. Huvneers<sup>3</sup>, <sup>1</sup>University of Adelaide, Australia, <sup>2</sup>SARDI Aquatic Sciences, Australia, <sup>3</sup>Flinders University, Australia</p>	<p><b>SS4P.05: Artificially oxygenating the Swan River estuary improves oxygen concentrations in the water and at the sediment interface</b> S. Larsen*<sup>1</sup>, K. Kilminster<sup>1,2</sup>, A. Mantovanelli<sup>1</sup>, Z. Goss<sup>1</sup>, G. Evans<sup>1</sup>, D. McGinnis<sup>3</sup>, L. Bryant<sup>4</sup>, <sup>1</sup>Department of Water and Environmental Regulation, Australia, <sup>2</sup>University of Western Australia, <sup>3</sup>University of Geneva, Switzerland, <sup>4</sup>University of Bath, UK</p>	<p><b>SS4O.05: Modelling the bioaccumulation of organic contaminants in coastal food webs: The case of PCBs and PFOSs in the Gironde estuary (SW France)</b> X. Chevillot*<sup>1</sup>, F. Mounier<sup>1</sup>, M. Lauzent<sup>2</sup>, M. Ballutaud<sup>1</sup>, P. Labadie<sup>2</sup>, H. Budzinski<sup>2</sup>, J. Lobry<sup>1</sup>, <sup>1</sup>IRSTEA, France, <sup>2</sup>UMR 5805 CNRS-EPOC, France</p>	<p><b>GS3A.05: TAC or TAE - Which works best for which fisheries?</b> B.S. Wise, B.W. Molony*, Department of Primary Industries and Regional Development, Australia</p>
11:45-11:55	Synchronisation Break					


11:55-12:10	<p><b>SS1J.06: Latitudinal shifts of the subtropical high pressure ridge cause anomalous winter cooling in Shark Bay, Australia</b> Y. Hetzel*, C.B. Pattiaratchi, <i>The University of Western Australia, Australia</i></p>	<p><b>GS1D.06: Nutrient enrichment stimulates breakdown of stored sediment organic matter and export of dissolved organic carbon</b> P.M. Riekenberg<sup>1</sup>, J.M. Oakes*<sup>2</sup>, B.D. Eyre<sup>2</sup>, <sup>1</sup>NIOZ Royal Netherlands Institute for Sea Research, <i>The Netherlands</i>, <sup>2</sup>Southern Cross University, <i>Australia</i></p>	<p><b>SS4H.06: SPIDA: An innovative database tool to assess the impacts of oil and gas infrastructure decommissioning activities</b> S. Barnard*, D. Burdon, M. Elliott, <i>University of Hull, UK</i></p>	<p><b>SS4P.06: Moor than meets the eye: Secondary impacts are a dominant driver of decline in a threatened seagrass meadow.</b> K.J. Griffin*, G. Clark, A.G.B. Poore, A. Vergés, E.L. Johnston, <i>University of New South Wales, Sydney, Australia</i></p>	<p><b>SS4O.06: Modelling and monitoring of mega-recharge interventions in achieving nature-based coastal resilience</b> C.O. Bird<sup>1,2</sup>, A.E. Becker*<sup>2,3</sup>, P.S. Bell<sup>2</sup>, J.E. Brown<sup>2</sup>, A. Sinclair<sup>1</sup>, G. Lymbery<sup>4</sup>, P. Wisse<sup>4</sup>, N. Leonardi<sup>3</sup>, P.J. Knight<sup>1,3</sup>, A.J. Plater<sup>3</sup>, <sup>1</sup>Marlan Maritime Technologies Ltd, <i>UK</i>, <sup>2</sup>National Oceanography Centre, <i>UK</i>, <sup>3</sup>University of Liverpool, <i>UK</i>, <sup>4</sup>Sefton Council, <i>UK</i></p>	<p><b>GS3A.06: Assessing generic pressures in the marine environment using expert judgement: A scalable approach to help inform sustainable natural resource exploitation, with applications for scenario-testing and for data-poor environments</b> S. Barnard*<sup>1</sup>, K.N. Papadopoulou<sup>2</sup>, <sup>1</sup>University of Hull, <i>UK</i>, <sup>2</sup>HCMR Hellenic Centre for Marine Research, <i>Greece</i></p>
12:10-12:25	<p><b>SS1J.07: Source and supply of sediment to a shoreline salient in a fringing reef environment</b> M. Cuttler*<sup>1,2</sup>, J. Hansen<sup>1</sup>, R. Lowe<sup>1,2</sup>, M. McCulloch<sup>1,2</sup>, <sup>1</sup>Oceans Graduate School and UWA Oceans Institute, <i>Australia</i>, <sup>2</sup>ARC Centre of Excellence for Coral Reef Studies, <i>Australia</i></p>	<p><b>GS1D.07: Diversity of methanogenic archaea in a tropical estuarine sediment: Implications for substrate utilization pattern and methane production potential</b> S.G.T. Vincent*, A.K. Pulickal, K.T. Radhakrishnan, <i>University of Kerala, India</i></p>	<p><b>SS4H.07: Western Australian marine oil pollution risk assessment: Identification of protection priorities</b> R. Morgan*<sup>1</sup>, E. Gifford<sup>2</sup>, A. Jacobs<sup>1</sup>, K. Swain<sup>3</sup>, <sup>1</sup>Advisian, <i>Australia</i>, <sup>2</sup>WA Department of Transport, <i>Australia</i>, <sup>3</sup>Woodside, <i>Australia</i></p>	<p><b>SS4P.07: A global analysis of factors influencing human perceptions of harbour health, and support of eco-engineering interventions</b> M.J. Bishop*<sup>1,2</sup>, E.M.A. Strain<sup>2,3</sup>, K.A. Alexander<sup>4</sup>, <sup>1</sup>Macquarie University, <i>Australia</i>, <sup>2</sup>Sydney Institute of Marine Science, <i>Australia</i>, <sup>3</sup>University of Melbourne, <i>Australia</i>, <sup>4</sup>University of Tasmania, <i>Australia</i></p>	<p><b>SS4O.07: Using modelling scenarios to guide management decisions in the highly-modified Vasse-Wonnerup estuaries</b> A. Mantovanelli*<sup>1</sup>, E.T. da Silva<sup>1</sup>, P. Kelsey<sup>1</sup>, L. Kalnejais<sup>1</sup>, J. Hall<sup>1</sup>, J. Browne<sup>1</sup>, J.Z. Coletti<sup>2</sup>, M. Hipsey<sup>2</sup>, K. Kilminster<sup>1</sup>, M. Robb<sup>1</sup>, <sup>1</sup>Department of Water and Environmental Regulation, <i>Australia</i>, <sup>2</sup>The University of Western Australia, <i>Australia</i></p>	<p><b>GS3A.07: Can habitat classification be used as a surrogate for reef biodiversity conservation in a climate change hotspot?</b> H.A. Malcolm*<sup>1</sup>, R. Ferrari<sup>2</sup>, A. Scott<sup>3</sup>, A.R. Jordan<sup>1</sup>, S.M. Smith<sup>4</sup>, A. Vergés<sup>4</sup>, <sup>1</sup>NSW Department of Primary Industries, <i>Australia</i>, <sup>2</sup>University of Sydney, <i>Australia</i>, <sup>3</sup>Southern Cross University, <i>Australia</i>, <sup>4</sup>University of New South Wales, <i>Australia</i></p>
12:25-12:40	<p><b>SS1J.08: Contrasting impact of floodwaters on coastal biogeochemistry in the Great Barrier Reef ecosystem</b> J.R. Crosswell*, G. Carlin, A. Steven, <i>CSIRO, Australia</i></p>	<p><b>GS1D.08: Responses of soil carbon and nutrient content, microbial biomass, and enzymatic activities to 7-year experimental warming in a non-tidal <i>Phragmites</i> wetland in the Yangtze Estuary</b> Q.C. Zhong*<sup>1</sup>, K.Y. Wang<sup>1</sup>, <sup>1</sup>Shanghai Academy of Landscape Architecture Science and Planning, <i>China</i>, <sup>2</sup>East China Normal University, <i>China</i></p>	<p><b>SS4H.08: Analysing coastal risk assessment through evolutionary economics</b> A.C. Eaves*<sup>1,3</sup>, P.S. Kench<sup>1,3</sup>, G. McDonald<sup>2</sup>, M.E. Dickson<sup>1,3</sup>, <sup>1</sup>University of Auckland, <i>New Zealand</i>, <sup>2</sup>Market Economics, <i>New Zealand</i>, <sup>3</sup>Resilience to Nature's Challenges National Science Challenge, <i>New Zealand</i></p>	<p><b>SS4P.08: How much enhancement is enough: Effect of habitat area and configuration on intertidal species richness on tropical seawalls at a landscape scale</b> L.H.L. Loke*, R.A. Chisholm, P.A. Todd, <i>National University of Singapore, Singapore</i></p>	<p><b>SS4O.08: The depletion and recovery of dissolved oxygen in Macquarie Harbour, Tasmania</b> K.A. Wild-Allen*, J. Andrewartha, J. Ross, <i>CSIRO Oceans &amp; Atmosphere, Australia</i></p>	<p><b>GS3A.08: Key drivers of effectiveness in small marine protected areas</b> J.W. Turnbull*<sup>1,3</sup>, Y. Shah Esmacelli<sup>2,3</sup>, G.F. Clark<sup>1</sup>, W.F. Figueira<sup>2,3</sup>, E.L. Johnston<sup>1,3</sup>, R. Ferrari<sup>2,4</sup>, <sup>1</sup>University of New South Wales, <i>Australia</i>, <sup>2</sup>University of Sydney, <i>Australia</i>, <sup>3</sup>Sydney Institute of Marine Science, <i>Australia</i>, <sup>4</sup>Australian Institute of Marine Sciences, <i>Australia</i></p>

12:40-12:55	<b>SS1J.09: WireWall - A new approach to coastal wave hazard monitoring</b> C.R. Sams <sup>1</sup> , J.M. Brown* <sup>1</sup> , M.J. Yelland <sup>1</sup> , R.W. Pascal <sup>1</sup> , T. Pullen <sup>2</sup> , P.S. Bell <sup>1</sup> , C.L. Cardwell <sup>1</sup> , D.S. Jones <sup>1</sup> , N.P. Milliken <sup>1</sup> , T.D. Prime <sup>1</sup> , <sup>1</sup> National Oceanography Centre, UK, <sup>2</sup> HR Wallingford, UK	<b>GS1D.09: Source apportionment of trace metals in surface sediments of Pearl River Estuary(China) using positive matrix factorization combined with GIS</b> Q.X. Liu*, S.Y. Li, J.T. Hu, Z.Z. Jia, Sun-Yat Sen University, China	<b>SS4H.09: Using best expert judgement to harmonise marine environmental status assessment and marine spatial planning</b> M. Elliott* <sup>1</sup> , S.J. Boyes <sup>1</sup> , S. Barnard <sup>1</sup> , A. Borja <sup>2</sup> , <sup>1</sup> University of Hull, UK, <sup>2</sup> AZTI, Spain	<b>SS4P.09: Characterising the ecological assemblages of urban rock pools: Implications for ecological engineering</b> N. Schaefer* <sup>1</sup> , M. Mayer-Pinto <sup>1</sup> , E.L. Johnston <sup>1</sup> , K.A. Dafforn <sup>1,2</sup> , <sup>1</sup> Evolution and Ecology Research Centre, Australia, <sup>2</sup> Macquarie University, USA	<b>GS3A.09: Australia's national law to restore wetlands by environmental water allocations</b> A.W. Gardner*, J.H. Jensen, <i>The University of Western Australia Law School, Australia</i>
12:55-13:10		<b>GS1D.10: Strontium isotopes and elemental constraints on coastal processes in South Australia: Implications for water source mixing and fish migration in the Coorong and Murray Mouth Estuary</b> Y. Shao, <i>University of Adelaide, Australia</i>	<b>SS4H.10: Guidelines for analysis of cumulative impacts and risks to the Great Barrier Reef, Australia</b> J.M. Dambacher*, P.K. Dunstan, <i>CSIRO, Australia</i>	<b>SS4P.10: Changes in biogeochemical cycling in response to retrofitting of urban structures</b> M. Mayer-Pinto* <sup>1,2</sup> , A.B. Bugnot <sup>1,2</sup> , J. Potts <sup>4</sup> , S. Ushiyama <sup>1</sup> , P. Scanes <sup>4</sup> , E. Strain <sup>2</sup> , T.M. Glasby <sup>3</sup> , L. Airoidi <sup>5</sup> , E.L. Johnston <sup>1</sup> , K.A. Dafforn <sup>1,2</sup> , <sup>1</sup> The University of New South Wales, Australia, <sup>2</sup> Sydney Institute of Marine Sciences, Australia, <sup>3</sup> Port Stephens Fisheries Institute, Australia, <sup>4</sup> NSW Office of Environment and Heritage, Australia, <sup>5</sup> University of Bologna, Australia	
13:10-13:40	Lunch   Grand River Ballroom				
13:40-14:30	Poster Session 2   Grand River Ballroom				
Room:	Golden Ballroom Centre	Golden Ballroom South	Hamersley	Goldsworthy	
14:30-15:45	<b>GS.1d Biogeochemistry and element cycling</b>	<b>SS.3g Coastal challenges for Small Island Developing States (SIDS)</b>	<b>SS.4p Applied solutions for sustainable and resilient estuaries and coasts</b>	<b>SS.4n Taking social sustainability to the sea: How to strengthen the social dimension of coastal and marine governance</b>	
14:30-14:45	<b>GS1D.11: Effect of ocean acidification on production of the recalcitrant dissolved organic carbon</b> T. Hama*, Y. Yoshida, Y. Inagaki, Y. Omori, S. Wada, <i>University of Tsukuba, Japan</i>	<b>SS3G.01: Future impacts of changing wave conditions on Caribbean coasts</b> L.M. Bricheno*, M. De Dominicis, S. Rynders, J.M. Brown, J. Wolf, <i>National Oceanography Centre, UK</i>	<b>SS4P.11: Integrating coastal restoration into resort management for shoreline and ecosystem protection in The Maldives</b> J. Purandare, <i>James Cook University, Australia</i>	<b>SS4N.01: Legal approaches to MPA governance in Indo-Pacific small island states</b> E.J. Techera, <i>University of Western Australia, Australia</i>	



14:45-15:00	<b>GS1D.12: The mechanisms behind changes in future benthic productivity: Temperature, CO<sub>2</sub> and pH</b> M. Simone*, K. Schulz, J. Oakes, B. Eyre, <i>Southern Cross University, Australia</i>	<b>SS3G.02: The influence of swash infiltration on the vertical extent of wave run-up</b> S. Brathwaite*, D. Villarroel-Lamb, <i>University of the West Indies St. Augustine, Trinidad and Tobago</i>	<b>SS4P.12: The impact of restored New Zealand Green Lipped mussels on ecosystem functioning</b> J.R. Hillman* <sup>1</sup> , A.G. Jeffs <sup>1</sup> , A.M. Lohrer <sup>1</sup> , T.A. O'Meara <sup>3</sup> , S.F. Thrush <sup>1</sup> , <sup>1</sup> <i>University of Auckland, New Zealand</i> , <sup>2</sup> <i>National Institute of Water and Atmospheric Research, New Zealand</i> , <sup>3</sup> <i>Oak Ridge National Laboratory, USA</i>	<b>SS4N.02: Barriers and enablers for institutionalising Marine Ecosystem Based Management: A systematic literature review</b> B.C. Glavovic* <sup>1</sup> , E. MacMahon <sup>2</sup> , R.L. Pond <sup>1</sup> , <sup>1</sup> <i>Massey University, New Zealand</i> , <sup>2</sup> <i>University College Cork, Ireland</i>
15:00-15:15	<b>GS1D.13: Mangrove carbon losses following a massive dieback event</b> J.Z. Sippo*, I.R. Santos, C.J. Sanders, D.T. Maher, <i>Southern Cross University, Australia</i>	<b>SS3G.03: Implementing land-based management for shoreline and marine ecosystem protection – Learnings from 10 years of community-based management in The Maldives</b> J. Purandare, <i>James Cook University, Australia</i>	<b>SS4P.13: Optimising seagrass for coastal defence</b> A. Twomey*, K. O'Brien, D. Callaghan, M. Saunders, <i>University of Queensland, Australia</i>	<b>SS4N.03: Exploring, examining and extending the social sustainability pillar in MSP</b> F.P. Saunders*, M. Gilek, <i>Södertörn University, Sweden</i>
15:15-15:30	<b>GS1D.14: Labile carbon distribution in tropical degraded mangrove in Sunderban, India</b> P. Bhattacharyya*, S.R. Padhy, P.K. Dash, H. Sulai, S. Neogi, <i>ICAR-NRRI, India</i>		<b>SS4P.14: Oysters on the front line: Nature-based solutions for coastal defence</b> R.L. Morris* <sup>1</sup> , D.M. Bilkovic <sup>2</sup> , D. Bushek <sup>3</sup> , J. Cebrian <sup>4</sup> , K.M. Kibler <sup>5</sup> , M.K. La Peyre <sup>6</sup> , G. McClenachan <sup>5</sup> , J.P. Shinn <sup>3</sup> , E. Sparks <sup>7</sup> , N. Temple <sup>7</sup> , <sup>1</sup> <i>The University of Melbourne, Australia</i> , <sup>2</sup> <i>Virginia Institute of Marine Science, USA</i> , <sup>3</sup> <i>Rutgers University, USA</i> , <sup>4</sup> <i>Dauphin Island Sea Lab, USA</i> , <sup>5</sup> <i>University of Central Florida, USA</i> , <sup>6</sup> <i>U.S. Geological Survey, USA</i> , <sup>7</sup> <i>Mississippi State University, USA</i>	<b>SS4N.04: The ecosystem approach and sustainable development in Baltic Sea marine spatial planning – The social pillar, a 'slow train coming'</b> M. Gilek*, F. Saunders, I. Stalmokaitė, <i>Södertörn University, Sweden</i>
15:30-15:45			<b>SS4P.15: The effects of habitat restoration on the ecological functioning of coastal ecosystems</b> C.K. Duncan* <sup>1</sup> , B.L. Gilby <sup>1</sup> , A.D. Olds <sup>1</sup> , C.J. Henderson <sup>1</sup> , R.M. Connolly <sup>2</sup> , T.A. Schlacher <sup>1</sup> , <sup>1</sup> <i>The University of the Sunshine Coast, Australia</i> , <sup>2</sup> <i>Griffith University, Australia</i>	
15:45-16:15	Awards and Closing Remarks   Golden Ballroom			

### Friday 7 September 2018

09:00-15:00	Free Workshop: Career development skills and pathways towards more effective and impactful research (sign-up required)   Freemantle Maritime Museum	Hosted by  <b>Harry Butler Institute</b> <small>MURDOCH UNIVERSITY</small>
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