

## AMSA 2011 Scientific Program

### Information Disclaimer

The speakers, topics and times are correct at the time of publishing. In the event of unforeseen circumstances, the organisers reserve the right to alter or delete items from the Conference Program

## SUNDAY 3 JULY 2011

1600 – 1800	Registration – Indian Ocean Suite, Esplanade Hotel Fremantle
1600 – 2000	Speaker Preparation Open – Abrolhos Room, Esplanade Hotel Fremantle
1800 – 2000	WA Department of Fisheries Welcome Reception – Indian Ocean Suite, Esplanade Hotel Fremantle

## MONDAY 4 JULY 2011

0800 – 1800	Registration Desk Open				
0845 - 0855	Welcome by AMSA 2011 Committee				
0855 - 0900	Welcome to Country				
0900 – 0915	<b>Opening Address</b> Ian Poiner				
0915 - 1005	<b>Managing the resilience and services of coral reefs in a changing climate</b> Peter Mumby				
1010 - 1030	<b>Creating an Australian coastal and ocean assessment and prediction system</b> Ian Cresswell				
1030 - 1100	Morning tea				
<b>Session</b>	<b>SS1. Health assessment of estuaries – developing, implementing &amp; reporting</b>	<b>GS1. Marine ecology</b>	<b>SS10. Ningaloo – the benefits of a multi-disciplinary approach</b>	<b>SS23. Indian Ocean – the cascade of scales</b>	<b>SS5. The Australian Animal Tagging &amp; Movement System</b>
<b>Chair</b>	Vanessa Forbes	Kerry Neil	Jane Fromont	Jerry Wiggert	Mark Meekan
<b>Room</b>	Sirius	Pleiades	Orion	Carnac & Garden	Rottnest
1100 – 1120	<b>Malcolm Robb</b> The challenges of assessing estuarine condition	<b>Vanessa Jaiteh*</b> Sub-Surface Behaviour of Bottlenose Dolphins ( <i>Tursiops truncatus</i> ) interacting with Fish Trawl Nets in NW Australia	<b>Mike Van Keulen</b> Habitats & Biodiversity of Ningaloo Reef lagoon	<b>Nick D'Adamo</b> UNESCO IOC Perth Office & overview of Global Ocean Observing System (GOOS) programs in the Indian Ocean	<b>Rob Harcourt</b> The Australian Animal Tagging & Monitoring System (AATAMS)
1120 – 1140	<b>Catherine Thomson</b> Comparative eutrophic status of southwest WA estuaries	<b>Marion Cambridge</b> Are seagrasses in recovering systems resilient to further nutrient addition?	<b>Peter Michael</b> Variation in Macroalgal Herbivory by Fishes across a Coral-Reef Marine Park	<b>Gary Meyers</b> Indian Ocean Oceanography - a historical perspective	<b>Conrad Speed*</b> The trophic ecology of four co-occurring species of reef sharks determined through stable isotope analysis & telemetry
1140 – 1200	<b>Fiona Valesini</b> Classifying estuarine habitats & predicting their fish faunas – tools for managers & ecologists	<b>Jonathan Stark</b> The environmental impacts of a sewage outfall at Davis Station, Antarctica	<b>Christine Schönberg</b> Australia's biodiversity hotspots: the sponge gardens at Ningaloo Reef, WA	<b>Yukio Masumoto</b> GOOS/CLIVAR Indian Ocean Panel (IOP)	<b>Frazer McGregor*</b> Manta ray ( <i>Manta alfredi</i> ) visitation to Ningaloo Reef, WA - The importance of residence!
1200 - 1220	<b>Angus Thompson</b> A report card for monitoring the condition of hard coral communities over steep environmental gradients	<b>Graeme Clark</b> One man's drink is another man's poison: correlating ecological effects of a contaminant with background concentrations	<b>Zhi Huang</b> Surrogacy Study of Carnarvon Shelf (Ningaloo) Infauna Data	<b>Jane Cumneen</b> The Indian Ocean Tsunami Warning & Mitigation System	<b>Mark Meekan</b> Nurseries & movement patterns of rays at Ningaloo Reef, Western Australia
1220 – 1240	<b>Peter Scanes</b> Assessment of chlorophyll, turbidity & ecological processes as indicators of estuarine condition in NSW		<b>Jane Fromont</b> Deepwater biodiversity off Ningaloo Reef	<b>Jiangtao Xu*</b> Dynamics of the summer shelf circulation & transient upwelling off Ningaloo Reef	<b>Russ Babcock</b> Including habitats in estimates of utilization distributions for reef fish
1240 - 1340	Lunch				
<b>Session</b>	<b>SS1. Health assessment of estuaries – developing, implementing &amp; reporting</b>	<b>GS1. Marine ecology</b>	<b>SS10. Ningaloo – the benefits of a multi-disciplinary approach</b>	<b>SS23. Indian Ocean – the cascade of scales</b>	<b>SS5. The Australian Animal Tagging &amp; Movement System</b>
<b>Chair</b>	Malcolm Robb	Britta Munkes	Mike Van Kuelen	Gary Meyers	Russ Babcock
<b>Room</b>	Sirius	Pleiades	Orion	Carnac & Garden	Rottnest

1340 – 1400	<b>Chris Hallett</b> Establishing reference conditions for multimetric health indices: the benefits & challenges of historical data sets	<b>Margaret Mohring*</b> Reproductive ecology of <i>Ecklonia radiata</i>	<b>Saskia Hinrichs*</b> Impacts of hydrodynamic shifts on coral condition at Ningaloo Reef	<b>Jerry Wiggert</b> SIBER: Sustained Indian Ocean Biogeochemical & Ecosystem Research	<b>Colin Simpfendorfer</b> 3D kernel utilization distributions as a tool to demonstrate activity space in aquatic animals
1400 – 1420	<b>Sabine Dittmann</b> Understanding the health status of the Murray River estuary: information from macroinvertebrate studies	<b>Mat VanderKliff</b> Variation in $\delta^{13}C$ and $\delta^{15}N$ of kelp <i>E. radiata</i> explained by geographical patterns in light availability & individual patterns of growth	<b>James Falter</b> Coupling & de-coupling of diurnal calcification rates from light, net production, & carbonate chemistry in a Ningaloo reef community	<b>Lynnah Beckley</b> Larval fish assemblages & particle back-tracking provide insight into Eastern Indian Ocean boundary current processes	<b>Gabriel Viana*</b> Socio-economic & Community Benefits from Shark-diving Tourism in Palau: a Sustainable Use of Reef Shark Populations
1420 – 1440	<b>Anne Brearley</b> Invertebrate fauna of the Hardy Inlet, estuary of the Blackwood River, Western Australia 2008 comparisons with 1976	<b>Renata Ferrari Legorreta*</b> Coral algae competition on Glovers Reef Atoll, Belize	<b>Emily Twiggs*</b> Development & demise of a fringing coral reef during Holocene environmental change, eastern Ningaloo Reef, WA	<b>Miles Furnas</b> Large-scale distribution of pelagic primary production on the North-West & Sahul Shelves	Discussion
1440 - 1500	<b>Vanessa Forbes</b> Rapid seagrass assessment methods as estuarine condition indicators	<b>Ezequiel Marzinelli</b> Processes affecting the re-establishment of the habitat-forming alga <i>Phyllospora comosa</i> in Sydney	<b>Wojciech Klonowski</b> Airborne hyperspectral remote sensing in support of mapping the physical & environmental assets of the Ningaloo Reef	<b>Cynthia Bluteau*</b> Near-bottom turbulent mixing in regions of internal wave activity on the Australian North West Shelf	Discussion
1500 - 1520	<b>Emma Johnston</b> Ecological changes in highly modified estuaries: what to measure?	<b>Alex Campbell</b> Diseases affecting habitat-forming seaweeds: complex environmental effects on pathogens & hosts	<b>Vincent Rossi</b> A bio-physical characterization of water masses off Ningaloo reef in May 2010	<b>Nicole Jones</b> Internal wave climatology at Ningaloo Reef	Discussion
1520 - 1550					
<b>Session</b>	<b>SS1. Health assessment of estuaries – developing, implementing and reporting</b>	<b>GS1. Marine ecology</b>	<b>SS10. Ningaloo – the benefits of a multi-disciplinary approach</b>	<b>SS22. The West Australian Integrated Marine Observation System (WAIMOS)</b>	<b>GS8. Approaches to understanding cross-boundary patterns in the marine environment</b>
<b>Chair</b>	<b>Fiona Valesini</b>	<b>Candace Willison</b>	<b>Damian Thomson</b>	<b>Jamie Oliver</b>	<b>Christel Hassler</b>
<b>Room</b>	<b>Sirius</b>	<b>Pleiades</b>	<b>Orion</b>	<b>Carnac &amp; Garden</b>	<b>Rottnest</b>
1550 – 1610	<b>Katherine Dafforn</b> Bang for buck, the challenge of choosing between chemical & biological monitoring tools for assessing the health of estuaries	<b>Shirley Sorokin</b> Megafaunal biodiversity in two contrasting submarine canyons on Australia's southern continental shelf	<b>Christin Sawstrom</b> Phytoplankton size structure & productivity in the Leeuwin Current off Ningaloo Reef, Western Australia	<b>Tim Lynch</b> Quality control & preliminary results from the IMOS Australian National Reference Stations	<b>Aimée Kornugabe*</b> Can Black Corals Unravel the Mysteries of the Deep? A Study of Trace Element Composition in Antipatharian Skeletons
1610 – 1630	<b>Melanie Sun*</b> Fingerprinting bacterial communities in estuarine sediments: identifying potential bioindicators of estuarine health	<b>Michael Sams</b> Recruitment frequency has a variable influence on sessile marine communities	<b>Soheila Taebi*</b> Seasonal variability in lagoon-ocean exchange at Ningaloo Reef, WA	<b>Thisara Welhena*</b> Dense water formation & cross-shelf exchange on the Rottnest Continental Shelf in south-western Australia	<b>Lu Fan*</b> Metagenomic study unveiled the symbiotic life style of microorganisms in Australian marine sponges
1630 – 1650	<b>Alyson O'Brien</b> Developing a mesocosm approach to detect community responses to pollutants in estuaries	<b>Justin Lathlean*</b> Novel use of infrared technology to test the effect of small scale temperature variability on early life history of an intertidal barnacle	<b>Ryan Lowe</b> Climatology of Circulation & Temperature Variability off Ningaloo Reef, Western Australia	<b>Mun Woo</b> Seaglider deployments off Western Australia	<b>Glenn Dunshea*</b> DNA-based diet estimation techniques: From toothed whales to Antarctic fish & snails
1650 – 1710	<b>Joel Williams*</b> Spatial distribution of larval black bream in relation to the physico-chemical structure of a drought stricken estuarine lagoon system	<b>Muhammad Azmi Abdul Wahab*</b> Larval behaviour & settlement cues of a brooding coral reef sponge	<b>Anna Lewis*</b> Multidisciplinary Methods: Sustainable Camping Along the Ningaloo Coast	<b>Florence Verspecht</b> Surface Current Measurements off Fremantle using HF Radar	<b>Christopher Mooney*</b> Stable isotopes of Cubozoan jellyfishes: their utility to discriminate taxa & elucidate population ecology
1710 – 1730	<b>Mirela Tulbure</b> Investigation of nutrient thresholds for ecological regime change in the Vasse-Wonnerup Estuary in SW WA		<b>Joanna Tonge*</b> Using photographs to explain visitors' attachment to the southern Ningaloo coast	<b>Anton Kuret*</b> Seasonal variability of phytoplankton biomass off the SW WA: assessment by ocean gliders & <i>in situ</i> sampling	
1730 – 1930	<b>CERF Marine Biodiversity Hub Poster Session</b>	<b>Indian Ocean Suite, Esplanade Hotel Fremantle</b>			

## TUESDAY 5 JULY 2011

0800 – 1800	Registration Desk Open											
0845 - 0850	Welcome											
0850 - 0900	Award presentation											
0900 - 0930	<b>Silver Jubilee 2011 Address</b> Graham Edgar - Generalisation of marine research outcomes: local to global, static to decadal and populations to biomes											
0930-1000	<b>Silver Jubilee 2010 Address</b> Pat Hutchings - Diversity of polychaetes, and a life time spent studying them											
1000-1030	AMSA AGM											
1030 - 1100	Morning tea											
<b>Session</b>	<b>SS9. From Sound to Sea: the oceanography &amp; ecology of the Kimberley</b>	<b>GS1. Marine ecology</b>	<b>SS8. Bridging the Australian New Zealand divide – modeling species &amp; community distributions across the worlds two largest EEZs</b>	<b>SS16. Re-shaping the continent: Predicting &amp; managing environmental impacts of dredging</b>	<b>SS13. Plankton – the foundation of marine food webs</b>							
<b>Chair</b>	<b>David Holliday</b>	<b>Kieryn Kilminster</b>	<b>Tanya Compton &amp; Piers Dunstan</b>	<b>Ross Jones, Cam Sim &amp; Andrew Negri</b>	<b>Graham Hosie</b>							
<b>Room</b>	<b>Sirius</b>	<b>Pleiades</b>	<b>Orion</b>	<b>Carnac &amp; Garden</b>	<b>Rottnest</b>							
1100 – 1120	<b>Peter Thompson</b> The Kimberley: some pieces of the puzzle	<b>Alistair Poore</b> An inordinate fondness for amphipods? Testing links between plant feeding & diversification in the aquatic Crustacea	<b>Jacquomo Monk*</b> Testing the influence of survey method for building species distribution models of marine fishes	<b>Matthew Jury</b> Dredging & port construction around coral reefs – Overview of PIANC Report 108 (2010)	<b>Graham Hosie</b> Predicting biogeographic patterns of Southern Ocean & Antarctic zooplankton using Continuous Plankton Recorder data							
1120 – 1140		<b>Gary Choney*</b> The impact of Black Swan ( <i>Cygnus atratus</i> ) herbivory on the seagrass <i>Halophila ovalis</i> in the Lower Swan River estuary	<b>Piers Dunstan</b> Defining & identifying areas worth protecting	<b>Stuart Field</b> Effects of the Gorgan Dredging Program on Selected Aspects of the Marine Biodiversity of the Montebellos/Barrow Islands MPAS	<b>Frank Coman</b> Plankton observing in Australia: the Australian Continuous Plankton Recorder (AusCPR) survey							
1140 – 1200	<b>James McLaughlin</b> Physical forcing of pelagic primary production on the Kimberley Shelf	<b>Damon Bolton*</b> Caught between a rock & a hard place: Predation pressure in crevice communities	<b>Tanya Compton</b> Distribution patterns of New Zealand macroalgae	<b>Kerry Neil</b> Scales of investigation & impact – asking the right sized question for the problem at hand	<b>Joanna Strzelecki</b> Zooplankton Communities in Australia: a comparison between east & west coasts							
1200 - 1220	<b>Nicole Patten</b> Onshore to offshore gradients in picoplankton: environmental forcing of the microbial food web	<b>Peter Morse</b> Temporal & spatial variation in distribution & composition of benthic communities on intertidal reef platforms in the Pilbara	<b>Nick Ellis</b> Predicted biodiversity patterns of marine fauna on the continental shelf around Australia	<b>Claus Pedersen</b> Dredge Plume Modelling as a Tool in Ecological Impact Assessments	<b>Alicia Sutton*</b> Horizontal & vertical distribution of euphausiids associated with a meso-scale eddy of the Leeuwin Current							
1220 – 1240	<b>David Holliday</b> Exploring Australia's northern boundary: larval fish & krill assemblages of the complex Kimberley pelagic ecosystem	<b>Britta Munkes</b> Hydrodynamic effects on grazing strength in seagrass ecosystems	<b>Maile Gail*</b> Phenotypic, isotopic, genetic & conditional differences in <i>F. magellanicus</i> populations from Chatham Rise & Bass canyon	<b>Brenton Chatfield</b> Evaluating impacts dredging projects have on the marine environment: Regulatory framework vs. mapping accuracy	<b>Ben Harris*</b> Kill in temperate Australia along the EAC separation Zone							
1240 - 1340	Lunch											
<b>Session</b>	<b>SS9. From Sound to Sea: the oceanography &amp; ecology of the Kimberley</b>	<b>GS1. Marine ecology</b>	<b>GS7. Climate Change</b>	<b>SS16. Re-shaping the continent: Predicting &amp; managing environmental impacts of dredging</b>	<b>SS13. Plankton – the foundation of marine food webs</b>							
<b>Chair</b>	<b>David Holliday</b>	<b>Sabine Dittman</b>	<b>Glenn Shiell</b>	<b>Ross Jones, Cam Sim &amp; Andrew Negri</b>	<b>Frank Coman</b>							
<b>Room</b>	<b>Sirius</b>	<b>Pleiades</b>	<b>Orion</b>	<b>Carnac &amp; Garden</b>	<b>Rottnest</b>							
1340 – 1400	<b>Jim Underwood</b> Larval dispersal & conservation of corals & reef fish at the isolated atolls of northwest Australia	<b>Claire Wellington*</b> Cross-shelf changes in fish assemblage structure over a 500 metre depth gradient on the lower west coast of Australia	<b>Peter Schlegel*</b> Origin-dependent responses of temperate sea urchins to near-future ocean acidification	<b>Andrew Negri</b> A laboratory-based approach to determining coral thresholds for dredging impact assessment	<b>Joanna Browne*</b> First use of DNA sequencing to link a jellyfish to fish in a diagenic life-cycle							

1400 – 1420	<b>Nagur Cherukuru</b> Optical properties of marine waters near the Kimberley Coast	<b>Owen O'Shea*</b> The effects of bioturbation by stingrays at Ningaloo Reef, Western Australia	<b>Catherine Collier</b> Thermal tolerance of two tropical seagrass species & implications for their distribution in the Great Barrier Reef	<b>Siti Maryam Yaakub*</b> Loss & recovery of a monospecific <i>Halophila ovalis</i> seagrass meadow in Singapore – responses to shading	<b>Penelope Ajani*</b> Toxic phytoplankton in oyster-growing estuaries of NSW – latitudinal diversity, seasonality & estuary susceptibility
1420 – 1440	<b>Lei Tian*</b> Dynamics of tidally-driven circulation in a topographically-complex macrotidal coastal system: the Kimberley, Western Australia	<b>James Tweedley*</b> Relationships between fish & benthic macroinvertebrate faunas & habitat types in Broke Inlet, Western Australia	<b>Michelle Heupel</b> Response of inshore predators to extreme weather events: Implications of a changing climate	<b>Adam Gartner</b> Recovery of fauna following disturbance in a <i>Amphibolis griffithii</i> seagrass system	<b>Christel Hassler</b> Iron bioavailability to phytoplankton from the Tasman Sea
1440 – 1500	<b>Matthew Rayson*</b> Ocean Dynamics of the Browse Basin & Scott Reef	<b>Mark Langdon*</b> Factors influencing the distribution & population of the grazing urchin <i>E. mathaei</i> within the Ningaloo Marine Park	<b>Emily Shaw*</b> Coral reef calcification shows higher future vulnerability due to natural CO2 variations	<b>Helen Taylor</b> Seasonal dynamics, productivity & resilience of tropical deepwater seagrasses: Implications for Port developments	<b>Marie Sinoir*</b> The role & requirements for zinc in temperate, oceanic phytoplankton
1500 - 1520	<b>David Waayers</b> Post-nesting movements of flatback ( <i>N. depressus</i> ) & green turtles ( <i>C. mydas</i> ) from a northern WA rookery		<b>Laura Parker*</b> Adult exposure influences offspring response to ocean acidification in oysters	<b>Kathryn McMahon</b> Indicators for monitoring dredging impacts to seagrasses	Discussion
1520 - 1550	Afternoon Tea				
<b>Session</b>	<b>SS9. From Sound to Sea: the oceanography &amp; ecology of the Kimberley</b>	<b>GS1. Marine ecology</b>	<b>GS7. Climate change</b>	<b>GS1. Marine Ecology</b>	<b>GS8. Open</b>
<b>Chair</b>	<b>Lynnth Beckley</b>	<b>Simon Allen</b>	<b>Catherine Collier</b>	<b>Glenn Hyndes</b>	<b>Katie Dafforn</b>
<b>Room</b>	<b>Sirius</b>	<b>Pleiades</b>	<b>Orion</b>	<b>Carnac &amp; Garden</b>	<b>Rottnest</b>
1550 – 1610	<b>Richard Brinkman</b> Carbon budget of an isolated coral reef exposed to large amplitude internal waves	<b>Ana Sequeira*</b> Predicting ocean-scale habitat suitability of whale sharks & detecting annual trends based on tuna-fishery sightings	<b>Ana Redondo Rodriguez*</b> Climate variability of the Great Barrier Reef in relation to the Tropical Pacific	<b>Fred Wells</b> Monitoring for Introduced Marine Pests for the Gorgon LNG Project	<b>Elizabeth Sinclair</b> Influence of environmental conditions on clonal diversity in seagrass meadows – <i>Posidonia australis</i>
1610 – 1630	<b>Tim Cooper</b> Genetic connections & the role of zooxanthellae in deep water corals of the mesophotic zone at Scott Reef, WA	<b>Gabrielle Cummins*</b> Humpback whale distribution & habitat use in the Nickol Bay region, WA, a potential resting area	<b>Catherine Lovelock</b> Keeping up with sea level rise: Processes contributing to stability in intertidal wetlands	<b>Kathryn Wiltshire</b> Assessing risks & impacts of the invasive alga <i>Caulerpa taxifolia</i> in South Australia	<b>Paul Carnell*</b> Resilience of temperate sub-tidal reefs: algal canopy disturbance & sea urchin barrans
1630 – 1650	<b>Alison Sampey</b> Synthesis of marine species data for the Kimberley region	<b>Rebecca Dunlop</b> Behavioural response studies in large marine mammals	<b>Megan Saunders</b> Predicted changes in seagrass distribution in Moreton Bay, SE Queensland, as a result of sea level rise	<b>Dana Burfeind</b> Invasive species performance in marine reserves	<b>Michele Burford</b> Does flooding fuel estuarine productivity in the wet-dry tropics?
1650 – 1710	<b>Katrina Baxter</b> Predicting distribution of benthic habitats for environmental impact assessments & investigating ecological drivers	<b>Chris Burton</b> Occurrence & distribution of blue whales ( <i>Balaenoptera musculus</i> ) in the Timor Trough 2007-08	<b>Sven Utinck</b> Interactive effects of climate change & terrestrial runoff on symbiont bearing benthic foraminifera from the GBR	<b>Emma Wilkie*</b> Biotic resistance to the invasive oyster <i>Crassostrea gigas</i> is not presently weakened by oyster disease	<b>60 Glenn Shiell</b> Environmental management of benthic macro-algal communities: is hypothesis testing an appropriate management tool?
1710 – 1730			<b>Kate Osborne</b> Impact of temperature stress on Acroporidae on Great Barrier Reef survey reefs		
1800 - 2300	<b>Student Night</b> – Upstairs Function Room, Newport Hotel Fremantle				

## WEDNESDAY 6 JULY 2011

0800 – 1800	Registration Desk Open									
0845 - 0850	Welcome									
0850-0940	<b>Marine Biodiversity in the 21st Century: Making Ocean Life Count</b> Paul Snelgrove									
0940-1000	<b>The Western Australian Marine Science Institution [WAMSIS] – the first five years</b> Steve Blake									
1000-1020	<b>Replacement of native with invasive sources of detritus: impacts to estuarine sediment communities</b> Melanie Bishop									
1030 - 1100	Morning tea									
<b>Session</b>	<b>SS7. First Census of Marine Life 2010 – Highlights of a Decade of Discovery</b>									
<b>Chair</b>	Kristen Yanicik	Robert McCauley	Norm Duke & Marcus Sheaves	SS11. Mangroves & salt marshes – crucial communities at the land-sea boundary	Melanie Bishop & Paul Lavery	SS12. Cross-boundary detrital subsidies in a changing world	SS2. Coastal Processes – Megafauna Interactions			
<b>Room</b>	Sirius	Pleiades	Orion		Carnac & Garden		Rottnest			
1100 – 1120	<b>Paul Snelgrove</b> Partnering Science & Policy for Sustainable Oceans: The Canadian Healthy Oceans Network	<b>Rudy Kloser</b> Using acoustics to understand the biomass, distribution, variability & energetics of mid-trophic level organisms in oceans	<b>Gina Newton</b> Protecting coastal saltmarsh under national environment law	<b>Paul Boon</b> Victorian saltmarshes & mangroves: typology, inventory, threats, & losses since European colonization	<b>Andrea Nicasastro*</b> Predicting effects of sea level rise on eelgrass decomposition: direct & indirect effects of tidal inundation	<b>Glenn Hyndes</b> Linking land & sea: different pathways for marine subsidies	<b>Chandra Salgado Kent</b> A theodolite tracking study of baleen whales in Geographie Bay, Western Australia			
1120 – 1140	<b>Graham Hosie</b> The Census of Antarctic Marine Life. A platform for the future	<b>Douglas H Cato</b> Listening to ocean sounds: using underwater acoustics to study marine animals	<b>Stephanie Baggalley</b> Mangrove condition monitoring in Gulf St. Vincent, South Australia - First outcomes & experiences	<b>John Russell Hanley</b> Mapping & estimating areas of mangroves in Port Hedland harbour: evidence of losses & gains since 1963	<b>Mirella Verhoeven*</b> How Frequency, Timing & Composition of Detrital Pulses Influences Benthic Macrofauna	<b>Ryan Baring*</b> Fish & invertebrate assemblages associated with floating macrophytes in surf zones of sandy beaches	<b>Carly Holyoake</b> An unusually severe presentation of dolphin poxvirus in bottlenose dolphins ( <i>Tursiops aduncus</i> ) within the Dolphin Watching zone on the West Coast of Mauritius			
1140 – 1200	<b>Nicholas Bax</b> Marine Biodiversity in the Australian Region & contributions to the international Census of Marine Life	<b>Miles Parsons</b> Are Swan River mulloway totally tone deaf or can the 'great one' hold a tune?	<b>Kerrylee Rogers</b> Modelling mangrove & saltmarsh surface elevation dynamics: applications to forecast effects of sea-level rise on coastal wetlands	<b>Candace Willison*</b> Seagrass wrack degradation: Temporal & spatial variations in degradation rates of <i>P. sinuosa</i> & the associated processes	<b>Asha De Vos*</b> Determining the relationship between blue whales & oceanic processes off southern Sri Lanka	<b>Richard Campbell</b> Foraging behaviours of dugong ( <i>Dugong dugong</i> ) in the West Kimberley: A community approach				
1200 - 1220		<b>Iain Parnum</b> Automatic detection of beaked whale echolocation clicks recorded in the Coral Sea								
1220 – 1240	<b>Pat Hutchings</b> Australian Polychaete Diversity & Distribution Patterns	<b>Robert McCauley</b> Long term trends in pygmy blue whale use of the Perth Canyon via passive acoustics								
1240 – 1340	Lunch									
<b>Session</b>	<b>SS7. First Census of Marine Life 2010 – Highlights of a Decade of Discovery</b>	<b>GS4. Fisheries</b>	<b>SS11. Mangroves &amp; salt marshes – crucial communities at the land-sea boundary</b>	<b>SS4. Rigorous assessments of the potential impact of industry &amp; coastal developments</b>	<b>SS21. Optical remote sensing of aquatic ecosystems: crossing boundaries from turbid coastal waters to the blue open ocean</b>					
<b>Chair</b>	Patricia Miloslavich	Alastair Hirst	Paul Boon	Simon Allen	Andy Steven					
<b>Room</b>	Sirius	Pleiades	Orion	Carnac & Garden	Rottnest					
1340 – 1400	<b>Elena Kupriyanova</b> Undiscovered diversity of deep-sea serpulid polychaetes	<b>Claire Spillman</b> Seasonal Forecasting to Support the Management of Wild Fisheries & Aquaculture in Australia	<b>Norm Duke</b> On the capacity of mangroves to respond to climate change & more	<b>Ken Pollock</b> Some design principles for marine mammal impact assessment studies	<b>Arnold Dekker</b> Earth Observing Inland to Marine Ecosystems-Satellite Application Developments help cross the Boundaries					

1400 – 1420	<b>Rebecca Fisher</b> CReefs: Establishing a benchmark for global coral reef diversity	<b>Jason How</b> Possible environmental causes for reduced colonisation of western rock lobster puerulus collectors by other species	<b>Eric Paling</b> Cause-Effect pathways in mangrove ecosystems; can they make management easier?	<b>Sam du Fresne</b> Aerial surveys to establish baseline distribution & abundance of Hector's dolphin - Cloudy & Clifford Bays, NZ	<b>Martina Doblin</b> Calibrating & validating bio-optical signals from ocean sensors
1420 – 1440	<b>Jo Marie Acebes</b> Diverse case-studies, common themes: outcomes of HMAP in Asia & Australia	<b>Paul Lewis</b> Recruitment dynamics of Tailor ( <i>Pomatomus saltatrix</i> ) in Western Australia, determining the contribution to adult stocks	<b>Beth Toki</b> Mangrove resilience to human modification & natural disturbance	<b>Barry Shepherd</b> Integrating aerial & vessel baseline surveys to support environmental assessments of Browse LNG Development	<b>Lesley Clementson</b> The Lucinda Jetty Coastal Observatory - an example of a single point observation site
1440 - 1500	<b>Tim Moltmann</b> The Integrated Marine Observing System: developing approaches to sustained observations of marine ecosystems	<b>Alex Carter*</b> Significant variation in spawning frequency of common coral trout, <i>Plectropomus leopardus</i> , on the Great Barrier Reef	<b>Jack Mackenzie*</b> The effects of catchment modification on estuarine tidal wetland ecosystems	<b>Hugh Kirkman</b> A suggested new Process for Environmental Impact Assessments	<b>Ernesto Molina Balari*</b> Assessing primary production variability in the western Tasman Sea: a comparison of <i>in situ</i> & ocean color estimates
1500 - 1520		<b>Natalie Toon*</b> Behaviour of the western rock lobster to commercial traps	<b>Melissa Duggan*</b> Long & short term effects of extremes in freshwater flow on intertidal biota of a wet-dry tropical estuary	<b>Michelle Yuen</b> Nearshore regional survey of dugongs: first systematic assessment of west Kimberley coastal dugong population	<b>David Blondeau-Patissier*</b> Mapping & describing phytoplankton dynamics in the Great Barrier Reef lagoonal waters: towards a regional characterization
1520 - 1550	Afternoon Tea				
<b>Session</b>	<b>SS7. First Census of Marine Life 2010 – Highlights of a Decade of Discovery</b>	<b>GS4. Fisheries</b>	<b>SS11. Mangroves &amp; salt marshes – crucial communities at the land-sea boundary</b>	<b>SS4. Rigorous assessments of the potential impact of industry &amp; coastal development</b>	<b>SS21. Optical remote sensing of aquatic ecosystems: crossing boundaries from turbid coastal waters to the blue open ocean</b>
<b>Chair</b>	<b>Paul Snelgrove</b>	<b>Matt Pember</b>	<b>Eric Paling</b>	<b>Sam Du Fresne</b>	<b>Barbara Robson</b>
<b>Room</b>	<b>Sirius</b>	<b>Pleiades</b>	<b>Orion</b>	<b>Carnac &amp; Garden</b>	<b>Rottnest</b>
1550 – 1610	<b>Patricia Mitostavich</b> Distribution patterns of gastropod assemblages in rocky shores: a NaGISA snapshot & future initiatives	<b>Claire Smallwood</b> A new complementary survey design for estimating shore-based recreational fishing catch & effort	<b>Peter Vermeiren*</b> Expanding the scope of spatial distribution studies on crabs in unvegetated intertidal zone of tropical estuaries with photography	<b>Michael Noad</b> Measuring behavioural impacts of seismic surveys on humpback whales ( <i>Megaptera novaeangliae</i> )	<b>Andy Steven</b> Biogeochemical & bio-optical properties of the 2011 Floods in Moreton Bay, Queensland
1610 – 1630	<b>Kavah Samimi-Namin</b> Development of a CoML Node for the Arabian Sea: Sea of Oman & Arabo-Persian waters region	<b>Gary Jackson</b> An integrated statewide survey of recreational boat fishing in WA- how to survey more than 20,000 km of coastline	<b>Kathy Murray</b> Collecting ground data for remote sensing in mangroves	<b>Lars Bejder</b> North West Cape, Exmouth: A hotspot for Indo-Pacific humpback dolphins ( <i>Sousa chinensis</i> ) in Western Australia	<b>Michelle Devlin</b> Exposure to riverine plumes in the GBR: Characterisation of water types through the use of remote sensing & spatial mapping
1630 – 1650	Discussion	<b>Kade Mills*</b> Recreational fishing reefs for enhancing opportunities in Port Phillip Bay: comparison of monitoring data & boat ramp surveys	Discussion	<b>Krista Nicholson*</b> Abundance of bottlenose dolphins ( <i>Tursiops sp.</i> ) in the western gulf of Shark Bay, Western Australia	<b>Rodrigo Garcia*</b> Quantification of floating macroalgae using the scaled algae index (SAI)
1650 – 1710	Discussion		Discussion	<b>Rachel Groom*</b> Strategic assessments required for coastal developments to achieve species conservation outcomes	<b>Lachlan McKinna</b> Determining euphotic zone depth within shallow waters of the Great Barrier Reef using optical remote sensing
1710 – 1730	Discussion		Discussion	<b>Amanda Hodgson</b> Unmanned Aerial Vehicles: a new technique for surveying marine mammals	<b>Peter Davies</b> Biological Measurements of New South Wales Coastal Waters & the EAC
1730 - 2000	<b>Ports WA Movie Night – "Oceans"</b> – Southern Cross Ballroom, Esplanade Hotel Fremantle				

## THURSDAY 7 JULY 2011

0800 – 1800	Registration Desk Open								
0845 - 0850	Welcome								
0850 - 0940	<b>The Biological Oceanography of Western Rock Lobster Larvae</b> Anya Waite								
0940 - 1000	<b>Simulation of 3-D hydrodynamics, flood plumes and connectivity on the Great Barrier Reef</b> Richard Brinkman								
1000-1020	<b>Marine Science Development and Cooperation in the Aratfura and Timor Seas - a regional and Timor Leste Perspective</b> Tonny Wagey & Lourenco Fontes								
1030 - 1100	Morning tea								
<b>Session</b>	<b>GS5. Oceanography</b>	<b>SS3. Marine science, connectivity, &amp; research cooperation in the Aratfura &amp; Timor Seas</b>	<b>GS8. Open</b>	<b>GS2. Coastal Processors</b>	<b>SS15. Integrated physical-ecological modelling for environmental management</b>				
<b>Chair</b>	<b>Anya Waite</b>	<b>Karen Edyvane</b>	<b>Rebecca Dunlop</b>	<b>Marion Cambridge</b>	<b>Matt Hispey &amp; Ryan Lowe</b>				
<b>Room</b>	<b>Sirius</b>	<b>Pleiades</b>	<b>Orion</b>	<b>Carnac &amp; Garden</b>	<b>Rottnest</b>				
1100 – 1120	<b>George Cresswell</b> Oceanographic data collected on the Fremantle-Hobart leg of the Danish Galathea 3 Expedition, Nov/Dec 2006	<b>Ian Poiner</b> Challenges & opportunities of the Aratfura & Timor Seas	<b>Rhiannon Kuchel*</b> <i>In vitro</i> effects of noradrenaline on Akoya pearl oyster ( <i>Pinctada imbricata</i> ) haemocytes	<b>Paul Lavery</b> Impact of seagrass wrack accumulations of hydrogen sulfide emissions from sandy beaches	<b>Jorgen Erik Larsen</b> Marine benthic & pelagic habitat modelling in baseline surveys & impact assessments for marine infrastructure projects				
1120 – 1140	<b>Alessandra Mantovanelli</b> Predicting advection & dispersion in southern GBR using Lagrangian trajectories computed from HF-radar currents	<b>Craig Steinberg</b> Current Observations from the Continental Shelves of the Aratfura & Timor Seas	<b>Amy Newman*</b> Visual-Eyes: A look at the distribution & total number of photoreceptor cells in the retina of rare deep-sea sharks	<b>Barbara Robson</b> 2011 Queensland floods: immediate biological response to the Fitzroy River Flood Plume	<b>Louise Bruce</b> Quantifying nitrogen dynamics of urban estuary with changing flow regimes using a 3D hydrodynamic-biogeochemical model				
1140 – 1200	<b>Moninya Roughan</b> Giving spatial & temporal context to 70 years of oceanographic observations at Port Hacking, NSW	<b>Bernadette Sioyan</b> Sustained Monitoring in the Timor Passage & Ombia Strait: Components of the Indonesian Throughflow	<b>Sarah Lau</b> Recent developments in methodology to permit more robust assessment of the impact of dredging on marine systems	<b>Lindsay Collins</b> Controls on Morphology & Growth Pattern of Coral Reefs, Australia's Western Margin	<b>Daniel Paraska*</b> Modelling sediment biogeochemistry: challenges & opportunities				
1200 - 1220	<b>Julie Wood*</b> The origin & variability of cold water events observed off Sydney, NSW	<b>David Williams</b> Coastal dynamics in the Aratfura Timor Seas	<b>196 Marty Deveney</b> Field trials of molecular tools for the detection of marine pests	<b>Peter Ralph</b> The influence of light & tidal exposure on primary production in the tropical seagrass <i>Zostera capricorni</i> & <i>Halophila ovalis</i>	<b>Karin Ulstrup</b> Toward an Ecolab Model for detection of Temperature, Light & Sediment Impacts on Coral Biomass				
1220 – 1240	<b>Klaus Joehnk</b> Simulation of river flood plumes in the Great Barrier Reef Lagoon	<b>Rachel Przeslawski</b> Integrated marine mapping to inform management of the Timor Sea	<b>9 Andrew Revill</b> Stable isotopic evidence for trophic groupings & bio-regionalization of predators & their prey in waters off eastern Australia	<b>Simon Allen*</b> Incidental dolphin capture in a Western Australian trawl fishery: Bycatch reduction devices no silver bullet	<b>Ben Radford</b> Predictive habitat mapping of deep water coral reefs: multibeam, AUV auto-classified data & ecological modelling approach				
1240 – 1340	Lunch								
<b>Session</b>	<b>GS5. Oceanography</b>	<b>SS3. Marine science, connectivity, &amp; research cooperation in the Aratfura &amp; Timor Seas</b>	<b>GS3. Marine Conservation</b>	<b>GS8. Habitat Modelling &amp; Mapping</b>	<b>SS15. Integrated physical-ecological modelling for environmental management</b>				
<b>Chair</b>	<b>Cynthia Bluteau</b>	<b>Tonny Wagey</b>	<b>Alison Sampey</b>	<b>Peter Scanes</b>	<b>Matt Hispey, Ryan Lowe &amp; Karin Ulstrup</b>				
<b>Room</b>	<b>Sirius</b>	<b>Pleiades</b>	<b>Orion</b>	<b>Carnac &amp; Garden</b>	<b>Rottnest</b>				
1340 – 1400	<b>Cyprien Bosserelle*</b> Inter-annual variability & longer-term changes in the wave climate of Western Australia between 1970 & 2009	<b>Jamie Oliver</b> Post-Montara assessments of nearby shallow reefs & submerged shoals: results from initial surveys	<b>Nathan Knott</b> Conservation of mudflat biodiversity: an experimental assessment of drivers & effects on ecosystem services	<b>Paul Erftemeijer</b> Predicting seagrass distribution based on habitat characteristics: a validated model for Venice Lagoon	<b>Leonardo Ruiz Montoya*</b> The role of ocean dynamics in seagrass seed dispersal & recruitment in Western Australia				

1400 – 1420	<b>Shari Gallop*</b> The vertical current structure in response to sea breezes in south Western Australia	<b>Augy Syahaliatua</b> Review on marine research in Arafura Sea, with special notes on prospective manufacture of marine coastal resources	<b>Andrew Olds*</b> Connectivity in coral reef seascapes: are there different effects from neighbouring seagrass & mangroves?	<b>Halina Kobryn</b> Ningaloo Marine Park: Coral Reef & Coastal Zone Maps achieved with Hyperspectral, Remotely-Sensed Data	<b>Zhenlin Zhang*</b> Modelling calcification in coral reef systems using a coupled physical-biogeochemical approach
1420 – 1440	<b>Charles Lemckert</b> Turbulence measurements in near coastal waters of the Gold Coast, Queensland	<b>James Butler</b> Multi-scale Analysis of Climate Futures & Rural Livelihood Adaptation Strategies in Eastern Indonesia	<b>Christopher Beattie*</b> Mud crab size & gender both matter in the competitive world of marine reserves	<b>Peter Fearn</b> Airborne hyperspectral remote sensing in support of monitoring & management of the Pilbara & Kimberley Regions of WA	<b>Stuart Kininmonth</b> Dispersal connectivity & reserve selection for marine conservation
1440 – 1500	<b>Amandine Schaeffer</b> Coastal processes in the Gulf of Lions (Mediterranean Sea): Impact of wind forcing on hydrodynamic circulation, high resolution modeling	<b>Scott Whiting</b> Sea turtles in the Arafura & Timor Seas - management at a regional scale	<b>Hideyasu Shimadzu</b> How much does sub-sampling influence biodiversity estimation?	<b>Matt Pember</b> POTBot: A cost effective approach to mapping habitats	<b>Cuifen Pui</b> DSS Tool to Facilitate Decision Making of Sediment Impacts on Sensitive Marine Receptors
1500 - 1520	<b>Yasha Hetzel*</b> Gravity currents in Shark Bay, Western Australia: implications for scallop larval dispersal	<b>Sue Morrison</b> Marine life of the Kimberley bioregion: past, present & future	<b>Steffan Howe</b> An Adaptive Management Framework & Conservation Outcomes Hierarchy for Victoria's Marine National Parks	<b>Justy Siwabessy</b> Exploring the angular response curves of multibeam backscatter for seabed habitat mapping	<b>Cameron Dixon</b> Coupling hydrodynamics with larval & reproductive biology to maximise yield & minimise impact on recruitment of prawns
1520 - 1550	Afternoon Tea				
<b>Session</b>	<b>GS5. Oceanography</b>	<b>SS3. Marine science, connectivity, &amp; research cooperation in the Arafura &amp; Timor Seas</b>	<b>GS3. Marine Conservation</b>	<b>GS6. Biogeochemistry</b>	
<b>Chair</b>	<b>Mun Woo</b>	<b>Ian Poiner</b>	<b>Hugh Kirkman</b>	<b>Christin Säwström</b>	
<b>Room</b>	<b>Sirius</b>	<b>Pleiades</b>	<b>Orion</b>	<b>Carnac &amp; Garden</b>	
1550 – 1610	<b>Farhan Rizwi</b> Glider Observations in Storm Bay	<b>Chris Austin</b> Understanding marine biodiversity & connectivity in Arafura Timor Seas & SE Asia through partnerships in genetics	<b>Kim Friedman</b> WAMMP: Monitoring strategies for active adaptive conservation management of marine biodiversity in Western Australia	<b>Martin Lourey</b> Sediment nutrient fluxes & primary production by microphytobenthos in Perth coastal waters	
1610 – 1630	<b>Mark Baird</b> Dynamics of a surface gravity current in a cold-core eddy in the western Tasman Sea	<b>Ricky Gimin</b> Marine & Fishery Research in East Nusa Tenggara: The Role of The University of Nusa Cendana	<b>Tom Rose</b> Review of environmental threats & ecosystem health in industrial & urban embayment of Cockburn Sound, WA	<b>Kieryn Kilminster</b> Artificial oxygenation of the Swan River: assessing sediment condition	
1630 – 1650	<b>Dan McClary</b> The World Ocean Council & Sustainable Ocean Summit: cross-sectoral industry alliance for sustainability & stewardship	<b>Karen Edyvane</b> Partnerships in Marine Biodiversity Research, Conservation & Sustainable Development in East & West Timor	<b>Luke Edwards</b> Discover the AODN: Australia's interoperable, multi-disciplinary, online network of marine & coastal data resources	<b>Geoff Nicholson</b> Biogeochemical assessment of the sediments of Port Phillip Bay using benthic chamber technology	
1650 – 1710		<b>Vincent Lyne</b> Integrated Assessments of Coastal Marine Assets for Adaptation Planning in East Indonesia		<b>Anya Waite</b> The Biogeochemistry of the forming Leeuwin Current off Ningaloo	
1900 – 0000	<b>Department of Water WA Conference Dinner - Southern Cross Gala Ballroom, Esplanade Hotel Fremantle</b>				