

# SCIENTIFIC PROGRAMME

## ORAL PRESENTATIONS

**MONDAY, 1 JULY 2019**

### **VENUE:**

0730	Registration
<b>Opening Ceremony</b>	
0845	Cultural entertainment
0900	Welcoming Remarks by Associate Prof Ranjeet Bhagooli, Chair of Local Organizing Committee
0905	Address by the WIOMSA President, Dr Jacqueline Uku
0915	Address by Sida representative, Prof Lena Gipperth
0925	Address by the Head of Nairobi Convention, Mr Dixon Waruinge
0935	Address by the Secretary General, Indian Ocean Commission, Mr. Madi Hamada
0945	Address by the Pro-Vice Chancellor of Planning & Resources, University of Mauritius, Associate Professor (Dr) Mohammad Issack Santally
0955	Opening Address by the Guest of Honour, the H.E Mr Premdutt Koonjoo, Minister of Ocean Economy, Marine Resources, Fisheries and Shipping
1015	Photo Session
1030	Coffee break

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<b>Session I: Stock status assessment</b>	
1100	Conand, C.; C. Michel; D. Chamari; F. Stella; G. Rodney; L. Thierry; L. Marc; M. Twalibu; M. Thierry; S. Stanley; Y. Saleh; F. Kim - Fisheries and management of sea cucumbers in the WIO: an update
1120	Everett, B.; S. Fennessy; N. van den Heever - Tracking temporal and spatial patterns in the catch and effort of the South African Crustacean Trawl Fishery
1140	Kadagi, N.; R. Ahrens; N. Wambiji - Are we catching the same billfish? Characterizing competitive interactions between recreational and artisanal fisheries in Kenya
1200	Parker, D.; H. Winker; C. da Silva; S. Kerwath - Fishery Characteristics and Stock Status of Indian Ocean Striped Marlin ( <i>Tetrapturus audax</i> ) and Black Marlin ( <i>Makaira indica</i> )
1220	Roos, D.; D. Pelletier; M. Gaboriau; P. Dupont; E. Sucre; T. Claverie - Monitoring and assessing fish stock status using unbaited remote underwater rotating video: the EPICURE project for knowledge and ecosystem-based management of Geysers coral bank, Mozambique Channel
<b>POSTERS (Raised Plaza)</b>	
1400	
1600	<b>Mini-symposium 1:</b> D. Cotton (Convener) - Satellite Data for Coastal Risk Applications - building capacity in the South West Indian Ocean

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<b>Session II: Mangroves: Status and ecosystem services provided</b>	
1100	Antonio, V.; S. Bandeira; C. Macamo; R. Mahanzule - Value Chain Analysis of Mangrove Forests in Central Mozambique: Uses, Stakeholders and Income
1120	Kwilasa, E.; B. Lugendo; M. Mangora; L. Triest - Genetic connectivity within and between landward and seaward habitats of <i>Avicennia marina</i> in the mangrove of East Africa (Kenya and Tanzania)
1140	Oyucho, S.; K. Shilabukha; G. Muga; J. Kairo; S. Bandeira; C. Macamo; R. Mahanzule - Assessment of Community Values for Mangrove Ecosystem Services and their Link to SDG in Vanga, Kenya
1200	Ravelombola, F.; P. Ramanamandimby; S. Nischalke - Mangrove ecosystems importance, dependency, and its conservation for Food Security: case of Southwestern Madagascar (Mangoky Delta)
1220	Wanjiru, C.; M. Huxham; S. Rueckert; I. Nagelkerken - Effects of Habitat Quality in Fish Community Structure of Vanga Mangrove Ecosystem
<b>POSTERS (Raised Plaza)</b>	
1400	
	<b>Mini-symposium 2:</b> H. Kegler (Convener) New Digital Technologies for Marine Biodiversity Data Handling in East Africa – Data Linking People

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Session III: Status of coral reef and services dependent on them	
1100	Hanekom, T.; S. Porter; M. Schleyer - Physiological responses of South African high-latitude coral communities to global warming
1120	Mouquet, P.; T. Bajjouk; M. Ropert; J. Quod; L. Hoarau; L. Bigot; N. Le Dantec; C. Delacourt; J. Populus - Assessment and monitoring of coral reef using hyperspectral and multispectral data: application to ecological indicator implementation for reef conservation and management
1140	Pennober, G.; P. Rouet ; S. Goutorbe; M. Menguis; J. Machabee; P. Mouquet; L. Massé ; A. Lemahieu. Ten years monitoring of Reunion Island MPA recreational uses
1200	Schleyer, M.; S. Porter; C. Floros; S. Laing; A. Macdonald; P. Montoya-Maya; T. Morris; M. Seré - The Future of High-Latitude Coral Systems: A Review Based on Three Decades of South African Reef Research
1220	Wagner, J. - 30 years of reef monitoring in Mayotte: responses to local and global changes
<b>POSTERS</b> (Raised Plaza)	
1600	<b>Mini-symposium 3:</b> J. Groeneveld (Convener) - A socio-ecological approach to fisheries in estuarine systems of the Western Indian Ocean – identifying essential links for improved governance

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Session IV: Compounds Isolation and genetic structure	
1100	Aullybux, A. D. Puchooa; T. Bahorun; R. Jeewon - Antibacterial and cytotoxic properties of exopolysaccharides from <i>Alcaligenes</i> and <i>Halomonas</i> species isolated from the marine environment of Mauritius
1120	Mghalu, J.; C. Nyiro - Antifungal Activity of epibiotic bacteria isolated from Kenyan Coastal marine cyanobacterium, <i>Moorea producens</i> against phytopathogenic <i>Rhizoctonia solani</i>
1140	Beesoo, R.; R. Bhagooli; V. Neergheen-Bhujun; W. Wu Li; A. Kagansky; N. Lall; C. Veale; T. Bahorun - Mauritius waters as medicinal cabinet: In vitro cytotoxic effects of the sponge <i>Neopetrosia exigua</i> against liver cancer cells
1200	Wambua, S.; H. Gourlé; E. de Villiers; A. Macdonald; E. Bongcam-Rudloff; S. de Villiers. - Coral-reef and Sub-littoral Microbiome Metabarcoding by 16S rRNA Gene Ion Torrent Sequencing
1220	Pearton, D.; G. Jessica; J. Keightly; S. Jackson - The Shell Game: Genetic analysis of Southern African Rock Oysters ( <i>Saccostrea</i> ) identifies multiple, sympatric, cryptic species
<b>POSTERS</b> (Raised Plaza)	
1600	<b>Mini-symposium 4:</b> J. Kairo & M. Gullström (Conveners) - Blue Carbon in the Western Indian Ocean

<b>Session V: MPA Management</b>	
1100	Hardisty, S.; A. De Vos; G. Cumming - Understanding how spatial resilience thinking can help address scale mismatches in marine protected areas: Case study of South African marine policies
1120	Jefwa, T.; I. Gedi; C. Gough; G. Grimsditch; S. Juma; N. Kanyange; J. Maina; K. Maize; M. Mchome; C. Munga; J. Naggea; S. Remy; L. Rogers-Bennett; J. Rubens; J. O'Leary - Unpacking MPA Management: Getting to evidence-based management of Western Indian Ocean MPAs
1140	Katikiro, R. - Partnerships as an approach to enhance conservation outcomes in Marine Protected Areas
1200	Mann, J.; R. Adams; S. Kirkman - What is in it for me? Exploring the social and economic objectives of Marine Protected Areas
1220	Muhl, E-K - Parks and People: Perceptions of Different Stakeholders to Changing MPA Regulations in the Tsitsikamma National Park
1400	<b>POSTERS</b> (Raised Plaza)
1600	<b>Mini-symposium 5:</b> G. David (Conveners) - Conservation of biodiversity in Africa and AICHI biodiversity targets: AMPs by 2020, at least 10 percent of coastal and marine areas, realistic target?

**TUESDAY, 2 July 2019**  
**Venue: POWA**

0900	<b>Keynote Presentation I:</b> C. GOLDEN - Global Fishery Declines and the Fate of Human Nutrition
0945	<b>Keynote Presentation II:</b> R. SUMAILA - Why Africa should be at the forefront of the fight to eliminate harmful subsidies at the WTO

**LT 1**

<b>Session VI: Small-scale fisheries resources: Status, impacts and management options</b>	
1100	Chande, M.; Y. Mgya; B. Benno. - The influence of environmental variables on the abundance and temporal distribution of <i>Octopus cyanea</i> around Mafia Island, Tanzania
1120	Jesse, K.; T. McClanahan - Outcomes of investing and disinvesting in natural fisheries capital in artisanal reef fisheries
1140	Okemwa, G.; G. Maina; E. Kimani; K. Karama; C. Aura; J. Ochiewo; F. Munyi; H. Owiti; E. Waiyaki; C. Munga; E. Mueni; M. Barabara; S. Komu; H. Yussuf; J. King - A multifaceted approach to tackling damaging fishing practices in Kenya's coastal waters
1200	Ranaivoson, B.N.J.; G. Pennober; P. Valade; M. Robin; P. Rouet; C. Revilion - Mangrove characterization and crab ( <i>Scylla serrata</i> ) productivity estimation using spatial tools: the case of three West Malagasy mangroves
1220	Robinson, J.; S. Wilson; J. Robinson; C. Gerry; J. Lucas; C. Assan; R. Govinden; S. Jennings; N.Graham - The changing structure and productivity of artisanal fisheries in Seychelles
<b>POSTERS (Raised Plaza)</b>	
1400	
1600	<b>Mini-symposium 6:</b> J. Mann, K. Van Puyvelde & D. Di Nitto (Conveners) - Communicating our Science to become better agents of change in marine conservation

**LT 2**

<b>Session VII: Mangroves: Impacts and management strategies</b>	
1100	Balidy, H.; S. Bandeira; C. Macamo; M. Mechisso; J. Laissone - Community-Based Mangrove Restoration: the Cases of the Limpopo Estuary and Quelimane Municipality
1120	Lugendo, B.; I. Kimirei - The Effectiveness of Different Components of Mangrove Ecosystems in Ascertaining the Nutrient Pollution Status of Mangrove Habitats
1140	Muriuki, A.; J. Kanya; N. Gichuki; J. Kairo - Use of Improved Cooking Stoves for Emission Reductions and Conservation of Mangrove Forests in Kenya
1200	Ramboatiana, N.; T. Razafindrianilana; P. Ramanamandimby; H. Rakotomalala; M. Randrianirina; H. Rakotondrazafy; A. Ratovoson - Ranking mangrove ecosystems degradation drivers in Northwestern Madagascar: Case of Bay of Ambaro
1220	Kairu, A.W.; R. Mbeche; K. Kotut; J.G. Kairo. Evolution of forest policies and their implications on mangrove management in Kenya
<b>POSTERS (Raised Plaza)</b>	
1400	
1600	<b>Mini-symposium 7:</b> T. Ribbink (convener) - Towards Zero Plastics to the Seas of the Western Indian Ocean

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<b>Session VIII: Coral reef fish: Status and changes</b>	
1100	Ebrahim, A.; J. Bijoux; P. Mumby; A. Olds; I. Tibbetts - Reef features, not marine reserves, shape the distribution of herbivorous fishes on coral reefs in the Seychelles
1120	Eggertsen, L.; T. Mendes; C. Ferreira; C. Berkstrom - Functional diversity of reef fish in seagrass, mangroves and among reefs: implications for conservation management
1140	Hammou, J.; T. McClanahan; D. Mouillot; N. Graham - Functional changes in coral reef fish over time in Kenyan MPAs: application of an evidence-based trait selection approach
1200	Samoilys, M.; R. Roche; K. Osuka; A. Halford; D. Obura; M. Gudka; J. Mbugua; G. Rowlands; L. Alvarez-Filip - Fish as indicators of biodiversity change in coral reefs
1220	Behivoke, F.; M. Pierre Etienne; M. Léopold; R. Randriantsara; J. Guillon; E. Ranaivoson. - Estimating effective fishing effort in coral reef fisheries using fine-scale GPS tracking
<b>POSTERS (Raised Plaza)</b>	
1400	
1600	<b>Mini-symposium 8:</b> I. Halo, S. Mahongo and M. García-Reyes (Conveners) PEACC project - A synthesis of new Knowledge, Key achievements and Reflections for future interdisciplinary research in the WIO region

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<b>Session IX: Genetic structure and connectivity</b>	
1100	Ikinya, W.; F. Huyghe; M. Kochzius - Genetic population structure of the small giant clam <i>Tridacna maxima</i> in the Western Indian Ocean and Red Sea
1120	<i>Nielsen, E.; M. Beger; R. Henriques; S. von der Heyden - Inferring evolutionary significant areas from patterns of climatic stability and genetic diversity</i>
1140	Jaonalison, H.; J-D. Durand; J. Mahafina; L.R. Raharinaivo; D. Ponton. How DNA Barcoding can enhance our knowledge about fish biodiversity in Madagascar
1200	Samaai, T.; S. Kirkman; D. Yemane; L. Janson; M. Fester - Patterns of species richness and biodiversity hotspots of sponges in the Benguela and Agulhas Somali Current Large Marine Ecosystem: Its importance for bioregionalisation and conservation planning
1220	Victorero, L.; J. Delavenne; B. Leroy; S. Samadi - The role of the Mozambique Channel on the biogeography of the Indo-Pacific Ocean
<b>POSTERS (Raised Plaza)</b>	
1400	
1600	<b>Mini-symposium 9:</b> T. McClanahan (Convener) - Governance Effectiveness and Perceptions of Fishing Restriction Benefits in East African Reef Fisheries

<b>Session X: Primary productivity and fish biomass</b>	
1100	Huggett, J.; N. Msweli; T. Morris; D. Walker; T. Bornman; S. Fawcett; J. Hermes - Zooplankton variability across the Agulhas Current
1120	Naik, S.; A. Anil - Influence of darkness on pigments of <i>Tetraselmis indica</i> (Chlorodendrophyceae, Chlorophyta)
1140	Senkondo, E.; D. Raitzos; F. Jebri; Y. Shaghude; E. Popova - Remotely sensing the seasonal variability of chlorophyll-a in Tanzanian coastal waters
1200	Soondur, M.; D. Kaullysing; R. Bhagooli; R. Boojhawon; R. Lowe. - Micro-phytoplankton and estimated net primary productivity variations around Mauritius Island: implications for sustainable fisheries
1220	Oddenyo, R.; T. McClanahan; N. Graham; A. Friedlander. - Coral Reef Fish Biomass in the Western Indian Ocean: Modelling of Baselines to Establish Status
1400	<b>POSTERS</b> (Raised Plaza)
1600	<b>Mini-symposium 10:</b> J. Bosire (Convener) - Facilitating successful ecosystem restoration in the WIO Region: Practical experiences for shared learning

**WEDNESDAY, 3 July 2019****Venue: POWA**

0815	<b>Special Event 1: IRD/WIOMSA – MOZALINK Video</b>
0900	<b>Keynote Presentation III:</b> J-L. WEBER - Towards Ecological Stewardship Based on Ecosystem Natural Capital Accounting
0945	<b>Keynote Presentation IV:</b> V.N. ATTRI - Sustainable and Inclusive Blue Economy Paradigm: Developments at Global, Regional and National Level

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<b>Session XI: Dugong status and by-catch mitigation</b>	
1100	Taju, A. - Population size and distribution of dugongs in the Bazaruto Archipelago region, Mozambique coast
1120	Wambiji, N.; N. Kadagi - Can circle hooks mitigate bycatch of marine megafauna? A case study of Kenyan artisanal handline and longline fisheries
1140	Fennessy, S.; B. Everett; E. Kimani; N. Wambiji; R. Anam; M. Nalovic - Progress towards implementation of Turtle Excluder Devices in the WIO
1200	Berggren, P.; A. Temple; S. Fennessy; N. Jiddawi; C. Poonian; S. Stead; J. Kiszka; S. Jorge; E. Kimani; N. Wambiji - BY-Catch Assessment and Mitigation in Western Indian Ocean Fisheries (BYCAM)
1220	Kakai, T. - Assessing the Effectiveness of Led Lights in Reduction of Sea Turtle Bycatch and Mortality in Artisanal Gillnet Fishery – A Case Study in the North Coast of Kenya
1400	<b>POSTERS</b> (Raised Plaza)
<b>Session XII: Involvement of communities in research and management</b>	
1600	Huet, J.; M. Daide; S. Rosendo. - Itinerant fishers in northern Mozambique and implications for community-based fisheries management
1620	Kareko, J.; N. Kanyange; M. Izaava. - Towards Establishment of Small-scale Fisheries Coastal-Marine Joint Co-management Areas in Kenya
1640	Kimanga, F.; J. Ochiwo; F. Munyi; E. Waiyaki; A. Richard. - Socioeconomic assessment of the impact of coral rehabilitation in Wasini, Kwale County, Kenya
1700	Macamo, C.; O. Bandeira; J. Adams; H. Balidy; F. Inácio. - Mangrove community-based management in Eastern Africa: experiences from rural Mozambique
1720	Omukoto, J.; J. Manyala; C. Munga; L. Mwasi. - Co-management roles perceptions, fishers' aspirations and the implications on coastal small scale fisheries governance in Kenya



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<b>Session XIII: Seagrasses: Status, impacts and management options</b>	
1100	Chiriko, A.; E. Aller; J. Eklöf - Additive effects of marine protected areas and land-use on inter- and intraspecific trait variability in tropical seagrass assemblages
1120	Daudi, L.; J. Uku; M. De Troch. - Implications of meadow structural alteration on associated epiphytic fauna in Kenyan seagrass meadows
1140	Mabuto, M.; M. Cuambe; S. Chitará; N. Zandamela; V. António; A. Murrube; D. Cossa; M. Scarlett; S. Bandeira - Response of Seagrass <i>Zostera capensis</i> to physical disturbance (clam collection) and evaluation of replanting experiment using plug method
1200	Pike, F.; J. Eklöf; B. Jones; N. Jiddawi; R. Unsworth; L. Cullen-Unsworth; M. de la Torre-Castro; L. Mtwana Nordlund - Social-ecological domains of the seagrass-associated invertebrate gleaning fishery in Zanzibar, Tanzania
1220	Rakotoarimino, L.; M. Ramiandrisoa; P. Davis. - Using incentivized Environmental Stewardship to conserve dugongs and seagrass habitat at an identified national hotspot
<b>POSTERS (Raised Plaza)</b>	
1400	
<b>Session XIV: Carbon stocks and mitigation options</b>	
1600	Dajka, J-C.; V. Beasley; G. Gendron; J. Barlow; N. Graham - Weakening macroalgal feedbacks by shading to assist coral recovery
1620	Gabriel J.; A. Magana; M. Njoroge; J. Kairo - Seagrass Carbon Stocks in Mangrove Fringed Creeks of Gazi Bay, Kenya
1640	Matuta, M.; J. Kairo; B. Kirui - Soil Organic Carbon in the Mangrove Forests of Lamu, Kenya
1700	Mbatha, A.; M. Githaiga; K. Kotut; J. Kairo. - Vegetation Carbon Stocks of the Mangrove Forests of Lamu County, Kenya
1720	Mohamed, A.; N. Koedam; J. Kairo - Seagrass Mapping in Gazi Bay Kenya

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<b>Session XV: Climate change related stressors</b>	
1100	Bhagooli, R.; G. Philippart; N. Taleb-Hossenkhan; S. Jeetun; A.S. Virassamy; A. Gopeechund; M. Soondur; J-F. Flot; T. Lajeunesse. - Characterising Stylophora from Mauritius and their photo-physiological responses to heat stress
1120	Duncan, M.; N. James; A. Bates; W. Potts - Considering "Ocean Weather" will improve predicting the effects of climate change on marine biodiversity
1140	Hoarau, L.; P. Mouquet; S. Bonhommeau; A. Cuvillier; L. Bigot; L. Massé; T. Bajjouk - Sea level drop: extreme tide event affects corals and benthic organisms on the reef flats of Reunion Island in the South West Indian Ocean
1200	Louis, Y.; R. Bhagooli; D. Seveso; P. Galli; M. Vai; S. Dyall. - Differential expression of hsp70 gene and Hsp70 protein in populations of the staghorn coral <i>Acropora muricata</i> with different bleaching susceptibilities
1220	Macdonald, A.; C. Onyango. - A biochemical index to assess response to heat stress and bleaching in two coral holobionts of varying resilience in the KwaZulu-Natal Coast, Durban
1400	<b>POSTERS</b> (Raised Plaza)
<b>Session XVI: Estuaries and tidal creeks systems: impacts and their governance</b>	
1600	McKelvey, B.; F. MacKay - Remote sensing for the quantification of sand mining activities affecting estuaries in KwaZulu-Natal: Preliminary results
1620	Mgaya, Y.D.; Y.W. Shaghude; D.S. Mukaka; M. Kishida; M. Sakaguchi. Ecological and Oceanographic Characteristics of a Meandering Tidal Creek, the Sudi Creek, Southern Tanzania Mainland
1640	Newman, B.; K. Ramparsad. - Interpreting metal concentrations in sediment: a practical lesson on pitfalls of some approaches
1700	Pitiri, G.; E. Makule; A. Matem. - Assessment of heavy metals and pesticide residue in prawns, water and sediments along the Indian Coastline of Tanzania
1720	Wayayi, V.; E. Okuku; B. Ohowa. - Persistent organochlorine pesticide and PCB residues in surface sediments of selected estuaries in Kenya

<b>Session XVII: Physical processes and modelling</b>	
1100	Bailey D. - A performance assessment approach for a regional ocean model of the south eastern coast of South Africa
1120	Becker, A.; C. Sams; S. Groom; C. Brockmann; K. Stelzer; S. Salama; T. Kutser; M. Dobson; M. Kossida; V. Byfield. - ESA EO4SD Marine & Coastal Resources Management - increasing the uptake of EO-derived information in sustainable development
1140	Braby, L.; B. Backeberg; M. Krug; C. Reason. - Towards understanding the impact of changing wind stress on simulated Agulhas Current source region eddies in HYCOM
1200	Ogega, O.; M. Mistry. - The future of east Africa's coastal cities in a changing climate: a case of Mombasa, Kenya
1220	Reason, C.; D. Mawren. - Modelling tidal effects in the Mozambique Channel and implications for tropical cyclones
1400	<b>POSTERS</b> (Raised Plaza)
<b>Session XVIII: Elasmobranchs and marine mammals</b>	
1600	Barra, T.; L. Hoarau; M. Dalleau; S. Delaspre; A. Landes; L. Bejder. - Unoccupied aerial vehicles and underwater observations reveal agonistic behaviors by humpback whales toward whale-watching in Réunion island
1620	Bennett, R.; A. Bräutigam; M. Bürgener; A. Clausen; J. Kiszka; C. Razafindrakoto; A. Bladon; R. Leeney; N. Okes; R. Ranaivoson; N. Muthiga; R. Oddenyo; C. Birrell; A. Bernard; S. Markes; M. Markovina; M. Kasuga; D. Beuningen. - Improving shark and ray conservation and management in the Western Indian Ocean through a collaborative regional process
1640	Beuningen, D.; R. Bennett. - Gaps in our knowledge of threatened shark and ray species in the Western Indian Ocean
1700	Klein, J.; A. Bester-van der Merwe; M. Dicken; K. Mmonwa; P. Teske. - Reproductive philopatry and site fidelity of the raggedtooth shark <i>Carcharias taurus</i> in South Africa
1720	Markovina, M.; A. Abdullah; S. Markes; S. Fasih; M. Kasuga; T. Davenport; R. Bennett; I. Salum; B. Kuguru. - Market and catch surveys to inform policy development for management of chondrichthyans in the United Republic of Tanzania

<b>Session XIX: Species richness and biodiversity hotspots</b>	
1100	Czachur, M.; S. Creer; G. Carvalho; M. Seymour; S. von der Heyden. - A rapid biomonitoring method: Using environmental DNA to characterise coastal fish biodiversity in South Africa
1120	Dunga, V.L.; J. Bolton; K. Sink; M. Luck-Vogel; M. Rothman, L. Blamey; S. Sibanda. Victor Dunga - Mapping to assess ecosystem threat status of South Africa's subtidal seaweed ecosystems
1140	Harris, J.; M. Samoilys; R. Palmer; A. Bernard; L. Woodall; N. Rasoanandrasana; I. Mohammed-Tohir - Building knowledge of marine benthic biodiversity and fish in Comoros Archipelago to support improved capacity and support for conservation action
1200	Mvula, P.; A. Macdonald; M. Pfaff. - Biodiversity monitoring for rocky shores in KwaZulu-Natal, South Africa
1220	Nyawo, M.; A. Bernard; T. Livingstone. - Do submarine canyons influence the diversity and structure of benthic fish assemblages occurring on the continental shelf edge?
<b>POSTERS (Raised Plaza)</b>	
1400	
<b>Session XX: Generation of data and its management</b>	
1600	Barde, J.; S. Bonhommeau; S. Poulain; B. Motah; P. Bresnahan; T. Cyronak; E. Chassot; B. MÉRIGOT - Citizen science: Riding the wave of data in coral reef ecosystems
1620	Celliers, L.; N. Fourie; J. Francis. - Sharing is caring for the WIO: data governance and management practices of the region
1640	Gulekana, M. - Lessons learnt from coordinating and organising a successful multi-disciplinary research cruise - 2017 IIOE-2 African Regional Training cruise as an "ex-sample"
1700	Isabelle G.; A. Fortuin; N. Schermbrucker; T. Mtontsi; C. Smith; M. van Rensburg; M. Pfaff. - Youth citizen science on the rocks: the LIMPET marine monitoring programme
1720	Mbugua, J.; D. Obura; K. Osuka; M. Samoilys. - Improving marine data accessibility and use in the Western Indian Ocean

**THURSDAY, 4 July 2019**  
**Venue: POWA**

0830	<b>Special Event 2:</b> Special Presentation on: WIO Journal of Marine Science & Exercises in Marine Biodiversity and Ecology: a training manual for the Western Indian Ocean
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0900	<b>Keynote Presentation V:</b> N. GRAHAM - Lessons from coral reef devastation, reorganisation, and recovery
0945	<b>Keynote Presentation VI:</b> S. DUPONT - A taste of Ocean Acidification

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<b>Session XXI: Mariculture and FADs</b>	
1100	Capello, M.; Y. Baidai; G. Pérez; M. Travassos; F. Forget; L. Dagorn. - Using FADs as scientific platforms to study the ecology of pelagic fish species with implications for fisheries management
1120	Kimathi, A.; J. Wakibia; M. Gichua. - Growth rates of Eucheumoids (Rhodophyta; Gigartinales) cultured using modified off-bottom and floating raft techniques in the Kenyan coast
1140	Kuehnhold, H.; N. Steinmann; Y. Huang; A. Meyer; A. Kunzmann . - Temperature-dependent aerobic scope and Hsp70 expression in the sea cucumber <i>Holothuria scabra</i>
1200	Robinson, G.; W. Reid; A. Nelson; C. Jones; S. Rushton; S. Stead; G. Caldwell. - The Microbiome is the Nexus Between Sediment Bioremediation and Deposit Feeder Growth
1220	Rodrigues, A.; R. Rocha; J. Huet; A. Costa; P. Bem-Haja; I. Silva; H. de Almeida; S. Amada; A. Soares; H. Koldewey; A. Pinto. - Viability study of <i>Pinctada cf. margaritifera</i> community-based aquaculture in Quiwia, northern Mozambique, Our Sea Our Life project
<b>POSTERS (Raised Plaza)</b>	
<b>Session XXII: Innovative techniques for assessment fisheries resources</b>	
1600	Léopold, M.; R. Govinden; J. Caquelard; A. Ebrahim; P. Bach. - Estimating sea cucumber resource abundance in Seychelles using fishery-dependent data
1620	Lindkvist, E.; N. Wijermans; T. Daw; B. Gonzalez-Mon; A. Gíron-Nava; A. Johnson; I. van Putten; X. Basurto. - Navigating complexities: Agent-based modeling to support research, governance and management in small-scale fisheries
1640	Sidat, N.J.; J. Siteo; S. Fernando; A. Uetimane; E. Morais; P. Marques; I.M. da Silva; F. Joaquim, H. Costa, J. Bampton, R. Bennett. Using small scale fisheries landing site surveys to support conservation and management of sharks and rays in Mozambique
1700	Urbina-Barreto, I.; R. Pinel; V. Mahamadaly; S. Elise; M. Facon; S. Bureau; R. Garnier; L. Penin; M. Adjeroud. Photogrammetric three-dimensional modeling as a promising tool for characterization and management of coral reef ecosystems
1720	Vaughan, E.; N. Graham; P. Wynn; S. Wilson; G. Williams; P. Barker. - Determining the precision and cost-effectiveness of bioindicators for capturing nutrient regimes on coral reefs around the Inner Seychelles Islands

LT 2

<b>Session XXIII: Pollution: Source, Fate and Social and Environmental Impacts</b>	
1100	Okello, C.; M. Owuor; N. Oduor; A. Tuda; G. Outa. - Adaptive Management to Coral Reef Systems in Kenya: Addressing Pollution Problems
1120	Porter, S.; M. Humphries; A. Buah-Kwofie; M. Schleyer. - Accumulation of organochlorine pesticides in reef organisms from marginal coral reefs in South Africa and links with coastal groundwater
1140	Adeleke, B. ; D. Robertson-Andersson; G. Moodley. - The combined effects of near-future coastal acidification and varying concentrations of heavy metals in <i>Dotilla fenestrata</i> (sand bubbler crab) in Durban harbour, Richards Bay harbour and Mlalazi estuary, South Africa
1200	Kachungwa, J. - Acetylcholinesterase Activity and Oxidative Stress Biomarkers in <i>Austruca occidentalis</i> from Mangroves of the Coast Of Dar es Salaam, Tanzania
1220	Okuku, E.; V. Wayayi; L. Kiteresi; G. Owato; C. Mwalugha - Survey of sediment contamination by Polonium (210Po) in three peri-urban creeks of Mombasa, Kenya
<b>POSTERS (Raised Plaza)</b>	
<b>Session XXIV: Microplastics pollution</b>	
1600	Bouwman, H.; R. Yive; C. Verster; D. Dalcos . - Plastics associated with birds from St. Brandon's, Mauritius, Western Indian Ocean
1620	Fourie, A.; A. Ribbink; A. Asimakopoulos; M. Ardelan. - A first look at South African oyster microplastic toxicity
1640	Lwalaye, O.; G. Moodley; D. Robertson-Andersson. - Impacts of Increasing Temperature and Microplastic Concentration on Microplastics Ingestion in Marine Invertebrates
1700	Seeruttun, L.; C. Appadoo. - A pioneer assessment of microplastics in selected coastal mangrove forests of Mauritius
1720	Thibault, M.; L. Hoarau; C. Jean; E. Cordier; L. Lebreton; M. Barret; S. Ciccione; M. Dalleau. - Macroplastics ingested by loggerhead sea turtles in the South West Indian Ocean: What are they and where do they come from?

<b>Session XXV: Endangered species: Marine turtles</b>	
1100	Obare, F. - Anthropogenic and Biophysical Factors Influencing the Nesting Choice of the Green Turtle ( <i>Chelonia mydas</i> , Linnaeus, 1759) Along the Kenyan Coast
1120	Mortimer, J.; N. Esteban; A. Guzman; G. Hays. - Importance of Chagos Archipelago sea turtle nesting populations to the wider Southwest Indian Ocean (SWIO) region
1140	Nel, R. - South Western Indian Ocean leatherback turtles: candidate environmental refugees or not?
1200	Nolte, C.; R. Nel; M. Pfaff; A. de Lecea. - Neritic and oceanic foraging habitats for nesting loggerhead ( <i>Caretta caretta</i> ) sea turtles: Evidence from epibiont community composition and stable isotope analysis
1220	Van der Schyff, V.; M. du Preez; R. Nel; H. Bouwman. - Organochlorine pollutants in loggerhead- and leatherback sea turtle eggs from the Indian Ocean coast of South Africa
<b>POSTERS (Raised Plaza)</b>	
<b>Session XXIV: Biology of crustaceans</b>	
1600	De Abreu, D.; A. Vetina; J. Matsombe; K. da Conceição; C. Verão; A. Macia; P. Moksnes. - Assessment of factors affecting juvenile penaeid shrimp distribution in nearshore nursery areas in Maputo Bay reveals substantial variation in habitat use
1620	Govender, A.; J. Groeneveld; S. Singh; S. Willows-Munro. - The design and testing of mini-barcode markers in marine lobsters
1640	Mugabe, E.; A. Bambo; E. Morais. - Population structure and biology of the exotic shrimp <i>Parapenaeopsis sculptilis</i> (Heller 1862), from Zalala Fishing Centre in Zambézia, Mozambique
1700	Ratsimbazafy, H.; C. Rumisha; M. Kochzius. - Tiger prawns' stock identification across the Indo-West Pacific and implication for the WIO fishery
1720	Singh, S.; J. Groeneveld; M. Hart-Davis; B. Backeberg; S. Willows-Munro. - Seascape genetics of the spiny lobster <i>Panulirus homarus</i> in the Western Indian Ocean

<b>Session XXVII: Biodiversity assessment for conservation planning</b>	
1100	Blamey, L.; N. Bodin; R. Walton; U. Bristol; R. Govinden; S. Talma. - Past, present, future: an overview of marine research and biodiversity status in Seychelles
1120	Harris, L.; A. Skowno; L. van Niekerk; K. Sink; M. Bessinger; A. Dayaram; S. Holness; S. Kirkman; T. Livingstone; A. Lombard; M. Lück-Vogel. - Advancing land-sea integration for ecologically meaningful coastal conservation and management
1140	Mabotja, M.; S. Harris; S. Weerts. - The larval fish biodiversity in relation to biozones off the KwaZulu-Natal coast, South Africa: Biodiversity surrogates for marine pelagic conservation planning
1200	Sibanda, M.; K. Sink; A. Skowno. - Protection Level Analysis of Marine Ecosystems in South Africa
1220	Sink, K.; L. Harris; T. Livingstone; S. Kirkman; L. Van Niekerk; S. Holness. - Identifying Critical Biodiversity Areas to support Marine Spatial Planning and Marine Protected Area Expansion in South Africa
<b>POSTERS (Raised Plaza)</b>	
<b>Session XXVIII: Socio-ecological factors and resource management</b>	
1600	Coals, L.; L. Nordlund; M. Mills; N. Jiddawi . - Women in fisheries: Importance of considering seasonal changes and social adaptive capacity for sustainable fisheries development
1620	Heckendorn, K.; W. Sauer; S. Aswani; I. da Silva; A. Bernard. - Fishers' decisions and willingness to change in three communities around Pemba Bay, Mozambique
1640	Jean H.; D. Di Nitto; F. Dahdouh-Guebas; T. Van der Stocken; N. Koedam - Murky mangroves and catchy corals – Does ecosystem attractiveness influence conservation action?
1700	Osuka, K.; S. Rosendo; M. Samoilys; M. Riddell. - Applying a social-ecological systems approach to understanding local marine management trajectories in northern Mozambique
1720	Woodhead, A.; N. Graham; A. Norström; G. Williams; C. Hicks. - Trap fishers' perception of changes in coral reef ecosystem services



<b>Session XXIX: Multidisciplinary research on socio-economic issues</b>	
1100	Dale, S.; R. Kramer; J.M. Harris; S. Paruk. Creating a Blue Port: Building ecological resilience and addressing youth unemployment in Durban Bay
1120	Dalleau, M.; L. Hoarau; S. Delaspre; T. Barra; A. Landes. - Towards a sustainable whale watching in Reunion island: assessing and mitigating humpback whale tourism disturbance
1140	Hicks, C.; P. Cohen; N. Graham; M. MacNeil; K. Nash; E. Allison; C. Lima; D. Mills; M. Roscher; S. Thilsted; A. Thorne-Lyman. - Harnessing fisheries to tackle micronutrient deficiencies
1200	Molelu, O.; B. Enserink; L. Celliers; C. Sutherland. - Shape shifting as a compulsory superpower for sustainable port-city development in Durban, South Africa
1220	O'Neill, L.D.; B. Crona; A. Ferrer; R. Pomeroy; N. Jiddawi. - Who benefits from seafood trade? A comparison of social and market structures in small-scale fisheries
1400	<b>POSTERS</b> (Raised Plaza)
<b>Session XXX: Regional and national ocean governance initiatives</b>	
1600	Gudka, M.; L. Ojwang; D. Obura; R. Mabwa; J. Mbugua; C. Obota; M. Bendera; N. Jiddawi; J. Komakoma; G. Maina; J. Moroa; H. Moumin; E. Mueni; G. Okemwa; E. Schemmel; A. Simtoe; N. Wambiji; L. West. - Testing the applicability of the Ocean Health Index framework as a tool to support ocean governance in the WIO: The case of Kenya and Tanzania
1620	Moore, L.; S. Brooks. - Taking the pulse of integrated coastal management: unpacking the experiences and worldviews of integrated coastal management role-players in the Western Cape
1640	Obura, D.; S. Owen; V. Bourquin; I. Chrisostomides; N. Deckert; M. Gudka; A. Jumbe; A. Ogada; L. Ojwang; H. Ralison; M. Samoilys; P. Scheren. - Scenarios for a sustainable blue economy for east and southern African countries
1700	O'leary, J.; G. Maina; N. Kanyange; A. Wamukota. - Readiness of Kenya's coastal communities for Marine Spatial Planning
1720	Schutter, M.; C. Hicks. - Networking the Blue Economy in Seychelles: Pioneers, Resistance, and the Power of Influence

**FRIDAY, 5 July 2019**  
**Venue: POWA**

0900	<b>Keynote Presentation VII:</b> C.E. Nauen - Gender and Ocean – recognition of women's roles in fisheries as a building block for sustainable living with the ocean
0945	Presentation of summary recommendations

**SPECIAL SESSIONS (from 1100 -1800)**

(Details on page 8)