

17th South African Marine Science Symposium

Durban, 20-24 June 2022

Scientific Program



Monday, 20 June 2022

16:00-19:00	Registration (Elangeni foyer)
17:00-21:00	Ice breaker (Suite 2, 3, 4, 5)
17:00-18:30	Play: Lalela uLwandle (Listen to the Sea)* limited to 70 attendees (Tugela, Maharani hotel)

Tuesday, 21 June 2022

07:30-08:15	Arrival Tea Registration (Elangeni foyer)				
08:15-08:25	Welcome and Housekeeping (Great Ilanga & Suites 1-5, Elangeni)				
08:25-08:30	Welcoming address by Mr Ravi Pillay: MPL, MEC for Economic Development, Tourism & Environmental Affairs (Great Ilanga & Suites 1-5, Elangeni)				
08:30-08:45	Opening address by the Honourable Ms Creecy, the Minister of Environment, Forestry and Fisheries (Great Ilanga & Suites 1-5, Elangeni)				
08:45-09:00	Dr Gilbert Siko (DSI) (Great Ilanga & Suites 1-5, Elangeni)				
09:00-09:15	Tracy Klarenbeek (NRF) (Great Ilanga & Suites 1-5, Elangeni)				
09:15-10:00	Plenary Astrid Jarre: A voyage into inter- and transdisciplinary fisheries research (Great Ilanga & Suites 1-5, Elangeni)				
10:00-10:30	Tea (Elangeni foyer)				
10:30-12:30	2022 vision: strategies for adaptive management (Suite 1-2, Elangeni)	Novel insights from ecology and biology (Suite 3-4, Elangeni)	Ecosystem functions and services (Suite 5, Elangeni)	Lessons from the past: (Great Ilanga, Elangeni)	Global change: from prediction to action and adaptation (Umgeni & Congella, Marahani hotel)
	--- Session 1a: Fish and fisheries: linking science and society	--- Session 2a: Species and their populations Session Chair: Kolobe Mmonwa	--- Session 3b: Biogeochemical processes Session Chair: AJ Smit	--- Session 5a: Geology, paleo-environments Session Chair: Andy Green	--- Session 4e: Emergent and persistent threats to marine ecosystems

	<i>Session Chair: Bruce Mann</i>				<i>Session Chair: Trishan Naidoo</i>
10:30-10:45	<u><i>A Decade of Surf-Zone Linefish Monitoring In The Dwesa-Cwebe Marine Protected Area, With A Preliminary Assessment of The Effects of Rezoning and Resource Use.</i></u> Kerryn Bullock; Aidan Wood; Vivienne Dames; Jan Venter; Juan Greeff	<u><i>A Multi-Disciplinary Approach To Assessing Reef-Scale Drivers of Biotic Communities On Blood Reef (durban, South Africa).</i></u> Kaylee Smit; Talicia Pillay; Errol Wiles; Hayley Cawthra; Anthony Bernard	<u><i>Blue Carbon Sinks In South Africa: The Need For Restoration To Enhance Co2 Sequestration.</i></u> Jacqueline Raw; Lara Van Niekerk; Janine Adams	<u><i>Geology and Coastal Evolution of The Mittaq Continental Shelf, Southern Namibia: A Sea Level Context</i></u> *Marinja Bester; Andrew Green; Andrew Cooper; Lynette Kirkpatrick; Kegan Strydom; Megan Runds	<u><i>The Science of Nurdology – Lessons Learnt From The Durban Nurdle Spill</i></u> Lisa Guastella; Alan Smith
10:45-11:00	<u><i>Exploring The Impact of Future Environmental Scenarios On The South African Sardine and Anchovy Fishery</i></u> Kelly Ortega Cisneros; Carryn de Moor; Kevern Cochrane	<u><i>The Effects of Environmental Variability On The Early Life Stages of Marine Estuarine-Dependent Cape Stumpnose</i></u> Yanasivan Kisten; Nadine Strydom; Renzo Perissinotto; Sourav Paul; Mfundo Mpinga	<u><i>Co2 Sequestration In The Benquela Upwelling System From A Global Biological Carbon Pump Perspective</i></u> *Claire Siddiqui; Tim Rixen; Niko Lahajnar; Anja K. Van der Plas; Deon C. Louw; Tarron Lamont; Keshnee Pillay	<u><i>High-Resolution Sea Level Reconstruction Along The South African Coastline Using Salt Marsh Foraminifera As Proxies</i></u> Lauren Pretorius; Jemma Finch; Niamh Cahill; Trevor Hill; Robert Barnett; Kate Strachan; Tristan Pillay; Craig Cordier	<u><i>Combining Monitoring and Eco-Physiology To Understand The Response of A Coastal Fish To Ocean Acidification</i></u> Carla Edworthy; Nicola James; Warren Potts; Sam Dupont
11:00-11:15	<u><i>How Many Sardine Stocks Are There Off South Africa?</i></u>	<u><i>Bruvs Offer An Effective Monitoring Tool For Species-of-Special</i></u>	<u><i>Interannual Variability and Trends of The Surface Ocean</i></u>	<u><i>Real-Life Seafloor Response To An Artificially Accreted</i></u>	<u><i>Improving Our Understanding of Ocean</i></u>

	Carl van der Lingen	<u>Concern Inside The West Coast National Park Mpa</u> Sisanda Mayekiso; Alison Kock; Yonela Mahamba; Ndiviwe Baliwe	<u>Carbonate System In The Benquela Upwelling System</u> *Mutshutshu Tsanwani; John Bolton; Pedro Monteiro	<u>Shoreline In Southern Namibia</u> Lynette Kirkpatrick; Andrew Green	<u>Acidification In Coastal Habitats</u> Tamara Robinson; Phikolomzi Matikinca; Tainã Loureiro
11:15-11:30	<u>Prey Abundance, Fishing Catches and Exclusions Impact African Penguin Populations</u> Lorien Pichegru; Alistair McInnes	<u>Creatures of Habit: The Secret Lives of Zambezi Sharks (carcharhinus Leucas) On The East Coast of Southern Africa.</u> . Ryan Daly; John Filmalter; Bruce Mann; Laurent Dagorn; Ryan Cowley	<u>Reassessment of The Productivity of The Southern Benquela Upwelling System</u> Grant Pitcher; Trevor Probyn; Andre Du Randt; Lisa Mansfield	<u>Onshore Sedimentary Deposits – Reconstruction Towards Palaeo-Extreme Marine Events Inundation Along The South African Coast</u> *Athi N. Mfikili; Thomas G. Bornman; Hayley C. Cawthra	<u>Organochlorine Pesticides In Coral Reef Organisms From The Isimangaliso Wetland Park World Heritage Site</u> Sean Porter; Marc Humphries; Archibold Buah-Kwofie; Michael Schleyer
11:30-11:45	<u>What's In The Basket? Spatial Distribution and Availability of Harvestable Marine Species Around The South African Coast</u> Stephen Justin Lamberth; Sven Kerwath	<u>Contrasting Catsharks - Comparing Two Catsharks (poroderma Spp.) Across Three Ecological Axes</u> *Ralph Watson; Enrico Gennari; Paul Cowley	<u>Seagrass Blue Carbon Stocks Along The Cool-Warm Gradient: A South African Study</u> Andrew Ndhlovu; Janine B. Adams; Sophie von der Heyden	<u>The Algoa Water Supply System: Drought and Groundwater Use Linked To Coastal Aquifer Discharge</u> *Carla Dodd; Gavin Rishworth; Hayley Cawthra; Gudrun Massmann	<u>Microplastic Concentrations In The Zandvlei Catchment Area and Estuary, Cape Town</u> *Whitney Samuels; Adetunji Awe; Conrad Sparks
11:45-12:00	<u>Fish Ecology In An Anthropogenically-</u>	<u>Movement Patterns of Spotted Grunter In</u>	<u>Seasonality In Rates of Net Primary</u>	<u>Deltas, Rivers and Dunes: The Submerged</u>	<u>Physiological Responses of A South African High-</u>

	<u>Altered Temporarily Open/closed Estuary In Warm-Temperate South Africa</u> *Mfundo Mpinga; Nadine Strydom; Renzo Perissinotto	<u>Relation To An Existing Estuarine Protected Area</u> *Godfrey Padare; Paul Cowley; Taryn Murray; J Du Plessis; Stephen Lamberth; Lukhanyiso Vumazonke	<u>Productivity, Nitrogen Uptake and Regeneration: Southern Benguela Upwelling System</u> *Sizwekazi Yapi; Raquel Flynn; Jessica Burger; Keshnee Pillay; Sarah Fawcett	<u>Shorelines of The Thukela Shelf.</u> *Luke Engelbrecht; Andrew Green; Andrew Cooper; Fiona Mackay; Sean Fennessy; Kerry Sink	<u>Latitude Coral Community To Global Warming</u> *Tanja Hanekom; Sean Porter; Michael Schleyer
12:00-12:15	<u>Assessing Critical Elements On The Small Pelagics Fishery' Supply Chain: Implications For Climate Change</u> *Natalie Le Roux; Kelly Ortega-Cisneros; Kevern Cochrane	<u>Population Dynamics of Two Endemic Catshark Species Inferred From Molecular and Tag-Recapture Data</u> *Emma Hubble; Juliana Klein; Aletta E. Bester-van der Merwe; Michaela Van Staden; Meaghen McCord; Enrico Gennari; Tinus Beukes; Mary Rowlinson	<u>The Marine Carbon Footprint: Challenges In The Quantification of Co2 Emissions From Southern Africa</u> Tim Rixen; Niko Lahajnar; Tarron Lamont; Rolf Koppelman; Bettina Martin; Claire Siddiqui; Anja K. Van der Plas		<u>The Impacts of Stormwater Outlets On Microplastic Distribution and Environmental Risk Indices In Cape Town</u> *Rushdi Ariefdien ; Conrad Sparks; Maya Pffaf; Adetunji Awe
12:15-12:30		<u>Baited Remote Underwater Video System (bruvs) Survey of Chondrichthyan Diversity In Sodwana Bay, South Africa</u> *Laylaa Teixeira; Ursula Scharler; Jennifer Olbers	<u>Vertical Carbon Fluxes In The Aqulhas Bank: Possible Implication For The Benthic Nepheloid Layer (bnl)</u> *Nwabisa Malongweni; Sarah Giering; Emma Rocke; Margaux Noyon		<u>Characteristics of Microplastics In Rocky Shore Invertebrates In Simon's Town, South Africa</u> *Liam Ferguson; Adetunji Awe; Conrad Sparks
12:30-13:30	Lunch (Ocean Breeze (2nd floor) & Lingela (ground floor), Elangeni)				

13:30-15:00	2022 vision: strategies for adaptive management (Suite 1-2, Elangeni)	Novel insights from ecology and biology (Suite 3-4, Elangeni)	Ecosystem functions and services (Suite 5, Elangeni)	Lessons from the past: (Great Ilanga, Elangeni)	Changing research fields and technology (Umgeni & Congella, Marahani hotel)
	--- Session 1a: Fish and fisheries: linking science and society Session Chair: Amber Childs	--- Session 2a: Species and their populations Session Chair: Lorien Pichegru	--- Session 3a: Trophic studies Session Chair: AJ Smit	--- Session 5a: Geology, paleo-environments Session Chair: Lauren Pretorius	--- Session 6c: Molecular techniques Session Chair: Angus Macdonald
13:30-13:45	<u>Debunking Myths Around South Africa's Recreational Fishery – A Path To Better Management</u> Warren Potts; Christopher Bova; Bruce Mann; Kyle Hewett; Michael Pyle; Aidan Du Preez; Winkler Alexander; Matthew Farthing; Amber-Robyn Childs	<u>Acoustic Foraging Network In African Penguins</u> Andrea Thiebault; Alistair McInnes; Lorien Pichegru; Tegan Carpenter-Kling; Katta Ludynia; Chloe Huetz; Thierry Aubin; Isabelle Charrier	<u>Assemblage and Trophic Structure of Mesopelagic Fishes In The Benquela Upwelling System</u> *Sabrina Duncan; Anne Sell; Wilhelm Hagen; Heino Fock	<u>Africa's Most Intense Tropical Cyclone: Geological Impacts of Cyclone Idai On The Mozambique Coast</u> Andrew Green; Jessica Pilarczyk; Lilian Pearson; Anthony Giang	<u>Bridging The Gap Between Morphological and Molecular Identification of Diatoms</u> *Brishan Kalyan; Gavin Snow; Thomas Bornman
13:45-14:00	<u>Scenario-Based Approaches To Change Management In Fisheries Can Address Challenges With Scale and Support The Implementation of An</u>	<u>Long-Term Trends In Wader and Shorebird Populations At Cape Recife (eastern Cape)</u> Maelle Connan; Phil Whittington; Greg Hofmeyr	<u>Isotopic Niche Partitioning and Trophic Relationships of Co-Occurring Large Marine Vertebrates Around An Indian Ocean Tropical Oceanic Island</u>	<u>No Need For Meltwater: The Collapse of Barriers and A Geologically Near Instantaneous Shoreline Retreat</u> Andrew Green; Andrew Cooper; Edward	<u>Genome Assemblies of Two Hammerhead Shark Species In Aid of Regional Population Genetic Assessments</u> *Dylan Grobler; Aletta Bester-van der Merwe ;

	<u>Ecosystem Approach To Fisheries Management</u> Louise Gammage; Astrid Jarre		*Guillaume CHANDELIER; Jeremy KISZKA; Violaine DULAU-DROUOT; Claire JEAN; Thomas POIROUT; Vanessa ESTRADÉ; Mathieu BARRET; Jacques FAYAN; Sébastien JAQUEMET	Anthony; Diaksha Ramdhunee	Juliana Klein; Matt Dicken ; Kolobe Mmonwa; Michelle Soekoe
14:00-14:15	<u>Understanding The Catch-and-Release Norms of An Eastern Cape Recreational Fishery</u> Christopher Bova; Matthew Farthing; Amber-Robyn Childs; Warren Potts	<u>Surviving Catastrophe: At-Sea Distribution of African Penguins Before and After Their Annual Catastrophic Moult.</u> Tegan Carpenter-Kling; Peter Ryan; Lorien Pichegru; Alistair McInnes	<u>Trophic Structure of Mesopelagic Fish Assemblages From Two Contrasting Regions of The South Atlantic Ocean</u> *Lourenco Zacarias	<u>Storm Waves Vs Tsunami? Surprises From A Boulder Beach and The March 2007 Storm</u> Andrew Green; Andrew Cooper; Warwick Hastie; Elisha Angath	<u>Towards Resolving Genetic Differences and Population Distributions of Rhynchobatus Species From The Southwest Indian Ocean</u> *Mia Groeneveld; Aletta Bester-van der merwe; Aidan Price; Juliana Klein; Michaela van Staden; Mark Bond; David Ebert; Jeremy Kiszka; John Nevill; Angus Macdonald; Bruce Mann; Rhett Bennet; Katie Gledhill
14:15-14:30	<u>Integrating Different Knowledge Systems In Estuarine Fisheries Management: Case of</u>	<u>Impacts of The Covid-19 Lockdowns On Shorebird Assemblages In A South African Urban Beach Ecosystem</u>	<u>Consolidating The Patterns of Trophic and Metal Bioaccumulation In Estuarine Macrofauna</u>	<u>Under The Sea: Relict Barriers, Spits and Beaches of The Southern Namibian Continental Shelf</u>	<u>Using Cutting-Edge Molecular Tools To Detect and Monitor Priority Marine Fishes</u>

	<u><i>The Sundays and Maitlands Estuaries</i></u> *Chilo Nonyane ; Bernadette Snow ; Nina Rivers ; Mia Strand	*Jemma Lewis; Deena Pillay	Aldwin Ndhlovu; Janine Adams; Gavin Rishworth; Lucienne Human	Andrew Green; Andrew Cooper; Lynette Kirkpatrick; Kegan Strydom; Megan Runds	*Jody-Carynn Oliver; Kerry Sink; Peter Teske; Stefano Mariani; Gwynneth Matcher
14:30-14:45	<u><i>Understanding South Africa's Marine Recreational Fishing Permit System</i></u> *Aidan du Preez; Warren Potts; Christopher Bova	<u><i>A Significant Shift In Cephalopod Diet of The Sooty Albatross During A Pronounced El-Niño Event</i></u> *Shamiso Banda; Maelle Connan; Tegan Carpenter-Kling; Pierre Pistorius	<u><i>Investigating The Trophic Ecology of Scomber Spp Off South Africa</i></u> Sindisa Sigam; Carl van der Lingen; Mark Gibbons	<u><i>The Stratigraphic Evolution of A Back-BARRIER Lacustrine System, Kosi Bay, South Africa.</i></u> *Nonkululeko Dladla; Andrew Green; Marc Humphries; Andrew Cooper; Matthew Godfrey; Ian Wright	<u><i>Population Genomics of The Bronze Whaler Shark Carcharhinus Brachyurus Across Southern Africa</i></u> Juliana Klein; Simo Maduna; Matthew Dicken; Charlene da Silva; Michelle Soekoe; Meaghan McCord; Warren Potts; Aletta Bester-van der Merwe
14:45-15:00	<u><i>Four-Decades (1980–2020) Trends In Bycatches From The Kwazulu-Natal Sharks Board Bather Protection Programme</i></u> Kolobe Mmonwa; Nomfundo Nkabi	<u><i>Population and Migratory Status of Roseate Terns In South Africa</i></u> Tony Tree; Maelle Connan; Philip Whittington	<u><i>Trophic Interactions and Pelagic Food-Web Structure In The Benquela Current Upwelling System</i></u> Holger Auel; Annabel Fee Mathiske; Maya Dalby; Wilhelm Hagen; Hans M. Verheye	<u><i>Geological Controls On The Morphodynamics of The Lower Shoreface: Dissipating The Bruun Rule.</i></u> *Henna Draycott; Andrew Green; Carlos Loureiro; Andrew Cooper	<u><i>The Junction of Metabarcoding, Community Analyses and Physical Oceanography: A Promising New Direction For Marine Ecological Research.</i></u> Ashrenee Govender; Sohana Singh; Johan Groeneveld; Sandi Willows-Munro
15:00-16:30	Play: Lalela uLwandle (Listen to the Sea) *limited to 70 attendees (Tugela, Maharani hotel)				

15:00-15:30	Tea				
15:10-16:00	Poster Session (see list at eand)				
16:00-17:30	2022 vision: strategies for adaptive management (Suite 1-2, Elangeni)	Novel insights from ecology and biology (Suite 3-4, Elangeni)	Changing research fields and technology (Suite 5, Elangeni)	Lessons from the past: (Great Ilanga, Elangeni)	Novel insights from ecology and biology (Umgeni & Congella, Marahani hotel)
	--- Session 1a: Fish and fisheries: linking science and society Session Chair: Judy Mann	--- Session 2a: Species and their populations Session Chair: Alison Kock	--- Session 6c: Molecular techniques Session Chair: Romina Henriques	--- Session 5b: Oceanographic variability over time Session Chair: Tammy Morris	--- Session 2d: Taxonomy and systematics Session Chair: Carol Simon
16:00-16:15	Examining The Expenditures and Retention of Money From Recreational Shore Anglers Along The Wild Coast *Michael Pyle; Warren Potts; Chris Bova; Gavin Fraser	Conservation Genetics of Inshore Bryde's Whales (balaenoptera Edeni Brydei) In Coastal South Africa *Dominique Paynee; Paulette Bloomer ; Gwenith Penry ; Els Vermeulen	Assessment of Fish Biodiversity In Selected Estuaries Around Ethekewini Municipality Using Edna Metabarcoding *Keneilwe Thekiso; Tshoanelo Miya	Intrusion of Antarctic Intermediate Waters Inshore of The Agulhas Current Along The Southeast Coast of South Africa: Perspectives From The Glorys-12v1 Model Issufo Halo; Tarron Lamont	A Dual Species- and Traits-Based Approach To Detail Macrobenthic Community Diversity In Kzn Coastal Waters Sikhumbuzo Maduna; Fiona MacKay
16:15:-16:30	Horizon Scan On The South African Recreational Marine Shore-Based Fishery - 100 Important Research Questions	Gauging The Threat: Exposure and Attraction of Sooty Albatrosses and White-Chinned Petrels To Fisheries Activities *Shamiso Banda; Florian Orgeret; Julien Collet;	A Temporal Comparison of Genetic Diversity In The Slinger Chrysoblephus Puniceus Along The East Coast of South Africa	Mesoscale Variability, Critical Latitude and Eddy Mean Properties In The Tropical South-East Atlantic Ocean Issufo Halo; Roshin P. Raj; Anton Korosov;	New Elasmobranch Records For The United Republic of Tanzania - Improved Knowledge On Species Distribution Dave van Beuningen; Rhett Bennett; Michael

	*Kyle Hewett; Warren Potts; Christopher Bova; Amber Childs; Edward Butler; Alex Winkler; Matthew Farthing; Bruce Mann; Judy Mann-Lang; Kieran Hyder	Alexandre Corbeau; Adrien Pajot; Henri Weimerskirch; Pierre Pistorius	*Samantha Ockhuis; Paul Cowley; Taryn Murray; Gavin Gouws; Sean Fennessy; David Pearton; Bruce Mann	Pierrick Penven; Mathieu Ruoualt; Johnny Johannessen	Markovina; Abdalla Abdulla; Jean Mensa; Adbulaziz Mussa; David Ebert; Patroba Matiku; Baraka Kuguru
16:30-16:45	<u>The Impact of Shark Liver Oil Trade On The Conservation and Management of Threatened Shark Species In Zanzibar, Tanzania.</u> *Frank Mirobo; Abebe Getahun; Saleh Yahya	<u>Improving Detectability of Dolphin Signature Whistles For Capture-Recapture Analysis: An Examination Using Real-World Data</u> *Jack Fearey; Simon Elwen; Greg Distiller; Tess Gridley	<u>Protocol Development For Assessing Marine Fish Assemblages Using Environmental Dna</u> *Mpilonhle Nyawo; Gwynneth Matcher; Anthony Bernard	<u>Ocean Structures and Dynamics of Two Open Bays On The Eastern Agulhas Bank</u> Xolisa Dlomo; Tommy Bornman	<u>Non-Invasive Edx Sem Technology For Marine Dentine Identification</u> Kristina Naidoo; Subashen Naidu; Matthew Dicken
16:45-17:00	<u>The Role of Fishing Guides In Promoting Pro-Environmental Fishing Behaviours In The Recreational Angling Community</u> *Matthew Farthing; Warren Potts; Amber Childs; Judy Mann-Lang	<u>Heard But Not Seen: Bryde's and Sei Whale Acoustic Occurrence In Bazaruto Archipelago, Mozambique</u> Fannie W. Shabangu; Michelle Caputo; Mario Lebrato; Karen R. Bowles; Ashlee Lillis	<u>Global Phylogeography and Population Genomics of The Commercially Exploited Smoothhound Shark</u> *Jessica Winn; Aletta Bester-Van der Merwe; Simo Maduna	<u>The Geography of Mixing On The East Coast of South Africa</u> Justin Pringle; Derek Stretch; Katrin Tirok	<u>Use of Openly Available Occurrence Data To Generate Biodiversity Maps Within The South African Eez</u> Dawit Yemane; Stephen Partrick Kirkman; Toufiek Samaai

17:00-17:15	<u>How Does Society Benefit From Fisheries Assessment Within South Africa?</u> Carryn de Moor; Doug Butterworth; Susan Johnston; Anabela Brandao; Andrea Ross-Gillespie	<u>Killer Whales of Southern Africa – An Ecosystem Shaping Top Predator In A Changing Environment.</u> Simon Elwen; Danielle Conry; Denham Parker; Stewart Norman; Alison Towner; Alison Kock; Alex Vogel; Lloyd Edwards; Matt Dicken; Dave Hurwitz; Tess Gridley	<u>Genetic Signatures of Population Decline In White Shark (Carcharodon Carcharias, L.) Populations: A Natural History Investigation.</u> *Danielle Davenport; Romina Henriques; Alice Manuzzi; Belén Jiménez Mena; Michael Bennett; Christine Dudgeon; Paul Butcher; Einar Eg Nielsen; Charlie Huveneers ; Jennifer Ovenden ; Sara Andreotti	<u>Long Term Trends and Interannual Variability of Surface Hydrographic Conditions Around The Prince Edward Islands</u> *Tessa Toolsee; Tarron Lamont; Mathieu Rouault	<u>Taxonomic Revision of The Mantis Shrimp (Crustacea: Stomatopoda) of Southern Africa; South Africa and Mozambique</u> *Rouane Brokensha; Charles Griffiths; Jannes Landschoff
17:15-17:30	<u>Deep Connections, Deep Hurts and Deep Possibilities: A Case Study On Participation In An Mpa</u> Kira Erwin; Kerry Sink		<u>Investigating Fine-Scale Population Dynamics In The Endangered Cape Dwarf Eelgrass, Zostera Capensis, Using Radseq</u> *Megan Jackson; Sophie von der Heyden; Romina Henriques	<u>Marine Heatwaves In The Mozambique Channel</u> *Daneaja Mawren; Juliet Hermes; Chris J.C Reason	<u>The Integrative Taxonomists Toolbox: Effective Taxonomic Study Requires Taxonomists To Wear Many Hats.</u> *Michael Brown; Mark Gibbons
18:00-19:00 Guest Lecture By Prof. Peter Ryan (Tugela, Maharani hotel)					

Wednesday, 22 June 2022

08:00-08:45	Plenary Pierre Pistorius: Seabirds and marine mammals as sentinels of global change (Great Ilanga, Elangeni)				
08:45-09:05	Tea (Elangeni foyer)				
09:05-10:20	Global change: from prediction to action and adaptation (Suite 1-2, Elangeni)	Novel insights from ecology and biology (Suite 3-4, Elangeni)	Global change: from prediction to action and adaptation (Suite 5, Elangeni)	2022 vision: strategies for adaptive management (Great Ilanga, Elangeni)	Novel insights from ecology and biology (Tugela, Maharani hotel)
	--- Session 4f: Advances and tools for marine conservation Session Chair: Jean Harris	--- Session 2a: Species and their populations Session Chair: Deena Pillay	ecosystems under global change Session Chair: Janine Adams	--- Session 1c: Aquaculture for the future Session Chair: Niall Vine	--- Session 2b: Communities and ecosystems Session Chair: Tammy Robinson-Smythe
09:05-09:20	<u>A Marine Spatial Planning Journey: The Case of Algoa Bay (port Elizabeth, South Africa)</u> Anne Lemahieu; Amanda T. Lombard; Hannah Truter; Bernadette Snow	<u>Connecting Larval Dispersal Models With Observations of Exploited Fish Along Southern South Africa</u> Cuen Muller; Christophe Lett; Francesca Porri; Paula Pattrick; Dylan Bailey; Hugo Denis; Nicolas Barrier; David Michael Kaplan	<u>Flow Alterations and Nutrient Loading Reduce Primary Producer Variability In Small Estuaries</u> Monique Nunes; Daniel Lemley; Janine Adams	<u>Creating A Model To Develop Self-Sustainable Aquaculture Agribusiness Enterprises In South Africa</u> *Bernadette Brown-Webb; Azwihangwisi Nesamvuni; Melanie De Bruyn; Johan Van Niekerk; Parsuramen Pillay	<u>Grunting In Murky Waters: Morphological and Ethological Discrimination Among Functional Stocks of Spotted Grunter.</u> *Vivienne Coetzee; Denham Parker; Sven Kerwath; Stephen Lamberth
09:20-09:35	<u>A Systematic Conservation Plan For Sharks and Rays In South Africa</u>	<u>Effects of Heterosigma Akashiwo Blooms On Larval Estuarine Roundherring (gilchrsitella Aestuarial)</u>	<u>How To Kill A Lake: First Recorded Acidification of An Estuarine Lake In South Africa</u>	<u>Does Extra-Limital Abalone Ranching Have Ecosystem Impacts? Monitoring Commercial Operations On The</u>	<u>Investigating Trawling Impacts On The Complexity of Inshore Soft Sediment Habitats of South Africa</u>

	Nina Faure Beaulieu; Jennifer Olbers; Victoria Goodall; Amanda T. Lombard.; Jean Harris	<u><i>In A Warm-Temperate Estuary</i></u> Taryn Smit; Catriona Clemmesen; Daniel Lemley; Janine Adams; Eugin Bornman; Nadine Strydom	Lara van Niekerk; Janine Adams; Stephen Lamberth; Daniel Lemley; Jabulile Nhleko; Taryn Riddin; Gavin Rishworth ; Susan Taljaard; Sebastian Brown	<u><i>Namaqualand Coast Suggest Not.</i></u> Kenneth Hutchings; Barry Clark; Aiden Biccard	*Shakirah Rylands; Jock Currie; Kerry Sink; Natasha Karenyi
09:35-09:50	<u><i>Empirical Move-On Rules For Bycatch Avoidance In The South African Midwater Trawl Fishery</i></u> Jodie Reed; Amanda Lombard; Kerry Sink; Sven Kerwath	<u><i>Episodic Benthic Turbidity Events (benthic Nepheloid Layer) On The Eastern Agulhas Bank, South Africa.</i></u> *Brett Johnstone; Warwick Sauer; Michael Roberts	<u><i>Managing The Seemingly Unmanageable: Water Quality and Phytoplankton Dynamics In A Heavily Urbanised Low-Inflow Estuary</i></u> Daniel Lemley; Lucienne Human; Gavin Rishworth; Emily Whitfield; Janine Adams	<u><i>Effects of Dietary Protein On The Culture of Juvenile Yellowtail Kingfish In Recirculating Aquaculture System.</i></u> *Apelele Manjingolo; Niall Vine	<u><i>Linking Movement Patterns and Reproductive Biology To Assess Habitat Connectivity In Spotted Grunter Pomadasys Commersonii</i></u> *Bantony Ziko; Paul Cowley; Taryn Murray; John Filmalter
09:50-10:05	<u><i>Measuring Marine Ecosystem Condition To Support Marine Spatial Planning</i></u> Kaylee Pam Smit; Anthony T.F. Bernard; Kerry J Sink; Amanda T Lombard	<u><i>Larval Assemblages In Intertidal Habitats: The Use of Artificial and Natural Microhabitats</i></u> *Seshnee Reddy; Francesca Porri; Paula Pattrick	<u><i>Quantifying Nutrient Storage Capacity of Invasive Alien Aquatic Plants In The Upper Swartkops Estuary</i></u> *Chuene Priscah Lakane; Janine Adams; Daniel Lemley	<u><i>Occurrence of Bisphenols and Benzophenone Uv-Filters In Wild Brown Mussels From Algoa Bay</i></u> Gabriela Castro; Amarein Fourie; Danica Marlin; Vishwesh Venkatraman; Susana González; Alexandros Asimakopoulos	<u><i>Nursery Provision of Macroalgae Reefs In A Coastal Seascape In Algoa Bay</i></u> *Mihle Gayiza; Nicola James; Anthony Bernard; Paul-Pierre Steyn

10:05-10:20	<u>Spatial Analyses To Assess The Effects of New Offshore Mpas On A Pelagic Longline Fishery</u> Jodie Reed; Amanda Lombard; Kerry Sink; Sven Kerwath	<u>The Effects of Easterly and Westerly Winds On The Settlement and Recruitment of Intertidal Invertebrates</u> *Oliver Olwethu Duna; Christopher McQuaid; Francesca Porri	<u>Seasonal Variation In Ecosystem Function of Two Subtropical South African Estuaries During A Drought Period</u> *Gemma Gerber; Ursula Scharler	<u>The Use of Biotic Indices To Assess The Effect of Fish-Farming In Richards Bay Harbour.</u> *Sazi Fortune Nzama; Leon Vivier; An De Fortier	<u>Wio-Benth – A Project To Map Benthic Habitats and Communities In The Western Indian Ocean</u> Sean Fennessy; Bernadine Everett; Bernardino Malawene; Errol Wiles; Jean-Jacques Be; Fiona MacKay; Julius Okondo; Mertin Ohldieck; Mary Kische; Mike Roberts; Patrick Vianello; Rui Mutombene; Arved Staby
10:20-10:30	Break Session changeover				
10:30-12:30	Global change: from prediction to action and adaptation (Suite 1-2, Elangeni)	Novel insights from ecology and biology (Suite 3-4, Elangeni)	Ecosystem functions and services (Suite 5, Elangeni)	Changing research fields and technology (Great Ilanga, Elangeni)	Novel insights from ecology and biology (Tugela, Maharani hotel)
	--- Session 4f: Advances and tools for marine conservation Session Chair: Jean Harris	--- Session 2a: Species and their populations Session Chair: Gan Moodley	--- Session 3c: Ecosystem resilience and sustainability Session Chair: Charles Von Der Meden	--- Session 6a: Big data and modelling Session Chair: Ursula Scharler	--- Session 2b: Communities and ecosystems Session Chair: Eleonora Puccinelli
10:30-10:45	<u>Ebsas In The Bclme - Leveraging National Processes To Ensure A</u>	<u>A Multi-Method Analysis of The Movement Patterns of Giant</u>	<u>The Value of Multibeam Bathymetry Data In Marine Spatial Initiatives</u>	<u>An Intercomparison of Global Reanalysis Products For Southern</u>	<u>Deep Forests:progress In The Identification, Scoring and Mapping of Vmes In South Africa</u>

	<u>Regionally Integrated Conservation Network</u> Erich Maletzky	<u>Kingfish <i>Caranx Ignobilis</i> From Southern Africa</u> *Russell Dixon; Paul Cowley; Taryn Murray; Ryan Daly; Bruce Mann	*Thamsanqa Wanda; Errol Wiles; Hayley Cawthra; Anton de Wit	<u>Africa's Major Oceanographic Features</u> Cristina Russo; Jennifer Veitch; Matthew Carr; Giles Fearon; Christo Whittle	*Mari-Lise Franken; Kerry Sink; Natasha Karenyi; Lara Atkinson; Kerry Howell
10:45-11:00	<u>Ecological Infrastructure As A Framework For Including Ecosystem Services In Systematic Conservation Planning</u> *Myriam J. Perschke; Linda R. Harris; Kerry J. Sink; Amanada T. Lombard	<u>Comparative Population Genomics Reveals Contrasting Evolutionary Responses For <i>Merluccius Capensis</i> and <i>M. Paradoxus</i></u> *Sarah Forde; Sophie von der Heyden; Deon Durholtz; Paulus Kainge; John Kathena; Marek Lipinski; Hilka ON Ndjuala; Conrad A Matthee; Romina Henriques	<u>Phytoplankton As Nutrient Filters In An Urbanized and Eutrophic Estuary.</u> *Emily Whitfield; Janine Adams; Daniel Lemley	<u>Ditching The Concrete Jungle: Using Gabions In Coastal Eco-Engineering</u> *Jessica Seath; Louw Claassens; Louise Firth	<u>Latitudinal Changes In The Composition and Diversity of Non-Copepod Neuston Along The West Coast of Africa</u> *Luanne Samantha Thomas; Mark John Gibbons
11:00-11:15	<u>Effectiveness of Permit Regulations Within The South African Boat-Based Whale-Watching Industry</u> Minke Witteveen; Gwenith S Penry; Mark Brown; Amanda T. Lombard	<u>Does Ocean Variability Influence The Distribution of Sequential Hermaphrodite Fishes?</u> Colin Attwood	<u>Impacts of Burrowing Sandprawns (<i>kraussilichirus Kraussi</i>) On Water Quality and Phytoplankton Assemblages In Estuarine Water</u> *Carla de Cerff; Deena Pillay ; Emma Rocke	<u>Integrating Biological Data Into Marine Ecosystem Classification and Mapping Through Statistical Modelling</u> Natasha Karenyi; Allan Clark	<u>Mesophotic Benthic Communities of Comoros</u> *Ayesha Bobat; Ramadhoina Ali; Lucy Woodall; Paris Stefanoudis; Jean Harris; Rosalie Wright; Ryan Palmer; Nirina Rasoanandrasana; Melita Samoilyls

11:15-11:30	<u>Effects of Dwesa-Cwebe Mpa Reopening On The Density and Size Structure of Perna Perna (linnaeus 1758)</u> *Naledi Nkohla; Dlaza Thembinkosi	<u>Island Or Oasis? The Role of Shallow Oceanic Seamounts In Structuring Populations of Yellowtail Seriola Lalandi</u> Sven Kerwath	<u>An Ecosystem Map and Assessment of The Threat Status of South African Kelp Forests</u> Loyiso Dunga; Kerry Sink ; John Bolton ; Mark Rothman; Melanie Lück-Vogel; Laura Blamey; Phillip Desmet	<u>Modelling On The Edge of The Agulhas: A Downscaling Approach To Simulating Bay-Scale Dynamics</u> Jennifer Veitch; Giles Fearon; Matthew Carr; Cristina Russo	<u>Quantifying The Functional Diversity of Benthic Epifauna In Offshore Regions of South Africa</u> *Jordan Van Stavel; Lara Atkinson; Juliet Hermes; Tamaryn Morris
11:30-11:45	<u>Nematodes As Indicators of Sediment Metal Contamination: do We Need To Work At Genus Level?</u> *Buyani Mazeka; Leon Vivier; An De Fortier; Hendrick Mzimela	<u>Population Connectivity and Genetic Diversity of Two Southern African Endemic Acroteriobatus Species</u> *Michaela van Staden; Charlene da Silva; Aletta Bester-van der Merwe	<u>Anthropogenic Disturbance and Subsequent Recovery of Benthic Habitats and Associated Macrofaunal Communities In Southern Africa</u> Kirti Gihwala; Aiden Biccard; Nina Steffani; Barry Clark; Safiyya Sedick; Cherucha Swart; Songezo Mtsokoba; Aletia Bock; Blessing Kamwi; Josef Shikeva	<u>Modelling The Coastal Ocean Between Table Bay and Walker Bay: From Long-Term Changes To Forecasts</u> Matthew Carr; Jennifer Veitch ; Sian Seymour	<u>Spatial and Temporal Analysis of Fish Assemblages Within The Knysna Estuary System</u> *Andrew Meiklejohn; Amber Childs; Kyle Smith; Ian Meiklejohn; Phakama Nodo; Nikki James
11:45-12:00	<u>The Advantages of System Dynamics Models In Decision-Support For Integrated Ocean Management</u>	<u>Remote Video Analysis of An Unusual Fish Life-History Combination: Nest-Building, Paternal Care and Protoqyny In A Seabream</u>	<u>Groundtruthing National Pressure-Based Assessments Using Fish and Benthic Community Data From Rocky Reef Ecosystems</u>	<u>Nurdle Spill Scenarios: Using A Numerical Model To Identify High Risk Coastal Regions</u>	<u>The Fish Community Structure and Habitat Utilization of Marine Juveniles In The Richards Bay Harbour (kzn).</u>

	Amanda Lombard; Estee Vermeulen; Jai Clifford-Holmes; Bernadette Snow	*Nina Faure Beaulieu; Colin Attwood	Kaylee Pam Smit; Anthony T.F. Bernard; Kerry J Sink; Lynne Shannon; Amanda T Lombard	*Giovanna Birkett; Juliet Hermes; Jennifer Veitch; Michael Hart-Davis	*Quintin Schutte; Leon Vivier; Digby Cyrus
12:00-12:15	<u>The Economic Value of The Ecosystem Services Rendered By Alqoa Bay</u> Mathew Bentley; Twesigye Twekye; James Blignaut; Estee Vermeulen; Bernadette Snow; Pablo Rees	<u>Swordfish Around South Africa: Indian Or Atlantic Ocean Stock?</u> Wendy West; Sven Kerwath; Colin Attwood; Rouvay Roodt-Wilding	<u>Organophosphate Pesticides Sequestered In An Aquatic Macrophyte - Phragmites Australis From An Estuarine System</u> Chijioke Olisah; Gletwyn Rubidge; Lucienne R. D. Human; Janine B Adams	<u>Ocean Accounts: Bringing Long-Term Ocean Monitoring To Your Fingertips</u> Erika Brown; Ken Findlay; Nicole du Plessis; Juliet Hermes; Tommy Bornman; Hayden Wilson	<u>Pinging The Benquela: Revealing Deep-Scattering Layers, Krill Migrations and Fish Aggregations With Hydroacoustic Observations</u> Tim Dudeck; Matthias Schaber; Lea Hartkens; Werner Ekau
12:15-12:30	<u>Using Behaviour and Aerobic Scope Phenotypes To Predict The Survival of Linefish Under Climate Variability</u> *Lauren Bailey	<u>The Movement of Mugil Cephalus In Response To Changes In Micro-Algal Biomass Using Acoustic Telemetry</u> *Eugin Bornman; Paul Cowley; Nadine Strydom; Janine Adams	<u>The Use of Satellite Imagery For Mapping Coastal River Plumes In The Marine Realm</u> Aphiwe Mtetandaba; Lara Van Niekerk ; Marie Smith; Kerry Sink	<u>Port Alfred Upwelling: A Numerical Modelling Approach</u> *Sheveenah Taukoor; Pierrick Penven; Isabelle Ansoorge; Thulwaneng Mashifane; Tarron Lamont	<u>Size Spectra of Zooplankton and Mesopelagic Fish In The Benquela Upwelling System</u> Tim Dudeck; Henrike Andresen; Dawit Yemane; Heino Fock; Sabrina Duncan; Werner Ekau
12:30-13:30	Lunch (Ocean Breeze (2nd floor) & Lingela (ground floor), Elangeni)				
13:00-13:30	SANCOR student representative election meeting (Great Ilanga, Elangeni)				
13:30-15:00	Ecosystem functions and services (Suite 1-2)	Global change: from prediction to action and adaptation (Suite 3-4)	Ecosystem functions and services (Suite 5)	Changing research fields and technology (Great Ilanga breakaway)	Novel insights from ecology and biology (Tugela, Maharani hotel)

	<p>--- Session 3a: Trophic studies <i>Session Chair: Gavin Rishworth</i></p>	<p>--- Session 4a: Sentinel species and global change <i>Session Chair: Francesca Porri</i></p>	<p>--- Session 3c: Ecosystem resilience and sustainability <i>Session Chair: William Froneman</i></p>	<p>--- Session 6b: Robotics, telemetry, ROVs etc. <i>Session Chair: Ryan Daly</i></p>	<p>--- Session 2b: Communities and ecosystems <i>Session Chair: Shaun Deyzel</i></p>
13:30-13:45	<p><u>Assessing The Relationship Between The Abundance of Lanternfish In The Cape Fur Seal Diet and The Lüderitz Coastal Upwelling Index and Sea Surface Temperature</u> *Diina Mwaala; Jean-Paul Roux; Margit Wilhelm</p>	<p><u>Spatio-Temporal Trends In Marine Megafauna Occurrence In The Nearshore Region of Nosy Be, Madagascar</u> *Alicea Lubbé; Michelle Caputo; Stella Diamant; William Froneman; Jeremy Kiszka</p>	<p><u>The Effects of Temperature and Nutrient Loading On The Biofiltration Function of Sandprawns</u> *Cheryl Marlene Thomas; Carla De Cerff; Maniel Grégoire Arthur Vincent; Abioye E. Oyatoye; Deena Pillay</p>	<p><u>Efectiveness of Satellitte and Drone Imagery In Assessing Marginal Mangroves: Wavecrest, Eastern Cape, South Africa</u> Astika Bhugeloo; Sershen Naidoo; Anusha Rajkaran</p>	<p><u>Epilithic Diatoms Along The Coast of South Africa: Insights From Baseline Studies</u> *Phumlile Cotiyane-Pondo; Thomas Bornman; Przemysław Dąbek</p>
13:45-14:00	<p><u>Food Quality As A Predictor of Macroinvertebrate Dietary Consumption In Modern Supratidal Microbialite Ecosystems of Nelson Mandela Bay, Gqeberha</u> *Sarah Hawkes; Lucienne Human; Daniel Lemley; Paul-Pierre Steyn; Shaun Welman; Gavin Rishworth</p>	<p><u>Singing In The South: The Presence of Humpback Whale Song During Migration Along The Western Coast of Southern African</u> *Erin Ross-Marsh; Simon Elwen; Alexa Prinsloo; Bridget James; Tess Gridley</p>	<p><u>Spatial and Temporal Variability of Net Primary Production On The Agulhas Bank, 1998 - 2018</u> *Sixolile Mazwane; Alex Poulton; Margaux Noyon</p>	<p><u>Is Two Better Than One? Dual Cameras On Towed Seabed System Improves Survey Effectiveness</u> Grant van der Heever; Thomas Petrus Arnoldus Botha; Lara Jane Atkinson; Moddy Pikiso</p>	<p><u>Long-Term Microbial Community Variability of A Highly Dynamic Coastal Upwelling Site In The Southern Benguela Region.</u> Kathryn Morrissey; Emma Rocke; Nicole Dames; Duncan Smith; Casha De Vos; Coleen Moloney</p>

14:00-14:15	<p><u>Foraging Behaviour of Breeding Sooty Albatrosses In Relation To Environmental Variability</u></p> <p>*Shamiso Banda; Florian Orgeret; Tegan Carpenter-Kling; Pierre Pistorius</p>	<p><u>Seasonal Characterization and Environmental Influence On Humpback Whale Sounds Off The West Coast of Sa</u></p> <p>*Bianca Soares; Tarron Lamont; Fannie Shabangu</p>	<p><u>Modelling of The Ecological Role of Submarine Canyon Heads On The East Coast of South Africa</u></p> <p>*Abigail Rohde; Ursula Scharler; Jean Harris; Mandy Lombard</p>	<p><u>Underwater Photoqrammetry For Coral Reef Monitoring and Understanding Rugosity of Coral Reefs In South Africa</u></p> <p>Sam Hofmeyr; David Pearton</p>	<p><u>The Macrozoobenthos Community Structure and Dynamics of Umdloti Estuary</u></p> <p>*Andile Cynthia Vumile Nkosi; Ursula Scharler; Fiona Mackay</p>
14:15-14:30	<p><u>The Eco-Morphology of Early Life History Stages of Small Pelagic Fish In The Benguela</u></p> <p>*Matthew Horton; Lynne Shannon; Carl van der Lingen</p>	<p><u>How do Selected Organisms From A Warm-Temperate Coastal Ecosystem Respond To The Effects of Climate Change?</u></p> <p>Kerry-Ann van der Walt; Francesca Porri; Warren Potts; Murray Duncan; Nicola James</p>	<p><u>Reno Matt-Tropolis: How An Artificial Structure Can Provide Habitat For Estuarine Species</u></p> <p>Nina de Villiers; Alan Hodgson; David Harasti; Louw Claassens</p>	<p><u>Utility of Unmanned Aerial Vehicles For Coastal Ecology In South Africa: Advantages, Considerations and Limitations</u></p> <p>David C. Dyer; Albertus J. Smit</p>	<p><u>The Ecology of Picophytoplankton In The Southern Benguela Coastal Upwelling Ecosystem</u></p> <p>Zimkhita Gebe; Emma Rocke; Coleen Moloney; Maya Pfaff</p>
14:30-14:45	<p><u>Top-Down Control By Grapsoid Crabs In South African Estuarine Salt Marshes</u></p> <p>*Leigh-Ann Smit; Janine Adams; Nasreen Peer; Gavin Rishworth</p>	<p><u>Has Increased Marine Traffic Driven The Recent Catastrophic Decline of African Penguins At Their Largest Global Colony?</u></p> <p>Alistair McInnes; Laëtitia Vibert; Andrea Thiebault; Isabelle Charrier; Tegan Carpenter-Kling; Katta</p>	<p><u>Limited Influence of The Largest African Penguin Colony On The Nearshore Productivity On Algoa Bay</u></p> <p>Giannina Passuni; Lucienne Human; Stuart Riddick; Mfundo Bizani; Paula Patrick; Shaun Deyzel; Tommy Bornman; Nadine</p>	<p><u>Movements of The Estuary Dependent Leervis Lichia Amia: Results From Long-Term Acoustic Tracking</u></p> <p>*Vuyolwethu Mxo; Paul D Cowley; Taryn S Murray; Matt C Parkinson; Bruce Mann</p>	

14:45-15:00	<p><u>Understanding Resource Partitioning In Three Species of Gobiidae Living In The Warm-Temperate Sundays Estuary</u> *Phumza Ndaleneni; Nikki James; Josie South</p>	<p>Ludynia; Nicky Stander; Lorien Pichegru</p> <p><u>African Penguins Facing Climate Change: Can Early Warning Systems For Extreme Events Inform Management Interventions?</u> Katta Ludynia; Nicola van Wilgen; Alison Kock; Arne Purves; Mashudu Mashau; Trudi Malan; Kevin Graham; Faroeshka Rogers; Mikaela Slier; Varadaman Hahndiek; Kashiefa Amos; Mpumelelo Mabutyana; Angelo Hufke; Wendy Foden</p>	<p>Strydom; Lorien Pichegru</p> <p><u>Coastal Ecosystem Services In False Bay: The Role of Benthic Filter Feeders In Mitigating Pollution</u> Eleonora Puccinelli; Francesca Porri; Katye Altieri; Raquel Flynn; Hazel Little; Tayla Louw; Paula Pattrick; Conrad Sparks; Mutshutshu Tsanwani; Sonya de Waardt; David Walker; Sarah Fawcett</p>		
15:00-15:30	Tea				
15:10-16:00	Poster Session (same titles as for Tuesday session) (Small Ilanga)				
16:00-17:00	<p>Ecosystem functions and services (Suite 1-2, Elangeni)</p> <p>--- Session 3a: Trophic studies Session Chair: Kelly Ortega Cisneros</p>	<p>Global change: from prediction to action and adaptation (Suite 3-4, Elangeni)</p> <p>--- Session 4a: Sentinel species and global change</p>	<p>Novel insights from ecology and biology (Suite 5, Elangeni)</p> <p>--- Session 2a: Species and their populations Session Chair: Barry Clark</p>	<p>Global change: from prediction to action and adaptation (Great Ilanga, Elangeni)</p> <p>--- Session 4c: Evolution, ecosystems and global change</p>	<p>Novel insights from ecology and biology (Tugela, Maharani hotel)</p> <p>--- Session 2b: Communities and ecosystems</p>

16:00-16:15	<p>Dietary Assessment of Cape Gannets In Algoa Bay Using Dna Metabarcoding</p> <p>*Kezia Sabrina Bowmaker-Falconer ; Julie McInnes ; Sophie Von der Heyden; Pierre Pistorius ; Azwianewi Makhado; Bruce Dyer ; Maelle Connan</p>	<p>Session Chair: Simon Elwen</p> <p>A New Insight Into Southern Right Whale Reproduction Via Baleen Endocrine and Stable Isotope Analysis</p> <p>*Loraine Shuttleworth; Meghan C. van Zyl; Andre Ganswindt; Alejandro Fernández Ajó; Emma L. Carroll; Kathleen E. Hunt; S. Mduduzi Seakamela; Luciano Valenzuela; Els Vermeulen</p>	<p>Effects of Spatial Protection On Macro-Invertebrates In The Table Mountain National Park Marine Protected Area</p> <p>Kathryn Gardner; Alison Kock; Barry Clark; Ken Hutchings; Colin Attwood</p>	<p>Session Chair: Warren Potts</p> <p>Assessing The Long-Term Impact of Ocean Acidification On The Thermal Physiology of A Juvenile Marine Fish</p> <p>*Caitlin Allison; Amber- Robyn Childs; Cuen Muller; Warren Potts</p>	<p>Session Chair: Fiona MacKay</p> <p>A First Characterisation of Unconsolidated Habitats For Macro-benthic Assemblages On The Kwazulu-Natal Shelf</p> <p>*Khutso Ramalepe; Fiona MacKay</p>
16:15-16:30	<p>Dietary Plasticity of Two Coastal Dolphins In The Benquela Upwelling Ecosystem</p> <p>*Michelle Caputo; Simon Elwen; Tess Gridley; Sophie Kohler; Jean-Paul Roux; Pierre Wiliam Froneman; Jeremy Kiszka</p>	<p>Cetacean Species Richness In Relation To Anthropogenic Impacts and Areas That Provide Protection In South African Oceans</p> <p>*Jean Purdon; Michael Somers; Fannie Shabangu; Ken Findlay; Marc Pienaar</p>	<p>Mapping The Mangrove Snail, Cerithidea Decollata, Distribution In Selected Wild Coast Estuaries</p> <p>*Sinxolo Fiki; Motebang Nakin; Theminkosi Dlaza</p>	<p>Cooling and Ocean Acidification Reduce Diversity and Alter Fouling Community Structure</p> <p>*Phikolomzi Matikinca; Tamara Bridgett Robinson</p>	<p>Characterising Epibenthic Diversity and Physical Drivers In Unconsolidated Marine Habitats of Algoa Bay, South Africa.</p> <p>Hannah Truter; Lara Atkinson; Charles Von Der Meden; Dylan Bailey; Wayne Goschen; Amanda Lombard</p>
16:30-16:45	<p>Spatial and Ontogenetic Changes In $\Delta^{15}n$ and $\Delta^{13}c$ Isotopic Signatures</p>	<p>Using Otolith Biochronologies From Sardine (sardinops</p>	<p>Using Bioacoustics To Understand The Occurrence and</p>	<p>Impact of Exploitation On The Activity of A Coastal Fish During</p>	<p>Geographical Variation In Soft-Bottom Benthic Infaunal Communities In</p>

	<u>of Two Species of South African Dogfish</u> *Aseeqah Davids; Robin Leslie; Mark Gibbons	<u>Sagax) In The Southern Benquela To Identify Ecosystem Shifts</u> *Faye Brinkman; Margit Wilhelm; Yonela Geja; Carl van der Lingen	<u>Movement of South Africa's Most Endangered Marine Mammal</u> *Sasha Dines; Guilherme Frainer ; Simon Elwen; Enrico Gennari; John Measey ; Tess Gridley	<u>Intense Cold Temperature Extremes</u> *Nonhle Mlotshwa; Warren Potts; Amber-Robyn Childs; Cuen Muller; Micheal Skeeles; Murray Duncan; Alexander Winkler	<u>The Benquela Upwelling Region</u> Jessica Dawson; Aiden Biccard; Barry Clark; Bruce Mostert; Kenneth Hutchings; Nina Steffani; Karen Tunley; Charles Griffiths
16:45-17:00	<u>Size Composition of Mesozooplankton As An Indicator of Energy Transfer In The Pelagic Food-Web of Algoa Bay</u> Giannina Passuni; Paula Patrick; Shaun Deyzel; Mfundo Bizani; Margaux Noyon; Lucienne Human; Lorien Pichegru; Lorien Pichegru	<u>Recent Changes In The South African Southern Right Whale Population – What do We Know So Far?</u> Els Vermeulen	<u>Hake Merluccius Capensis Recruitment Depends Mostly On The Previous Year's Recruitment</u> Margit Wilhelm; Diina Mwaala; Jean-Paul Roux	<u>Impact of Exploitation On Resident Reef Fish Activity In A Thermally Variable Environment</u> Amber-Robyn Childs; Michael Skeeles; Nonhle Mlotshwa; Alexander Winkler; Duncan Murray; Cuen Muller; Kyle Smith; Warren Potts	<u>Response of Benthic, Macrofaunal Assemblages On The Continental Shelf To Orange River Flood Events</u> Aiden Biccard; Barry Clark; Nina Steffani; Kevin Schmidt; Blessing Kamwi; Anelisa Makhosonke
19:00-23:00	Gala Dinner (Elangeni, Suites 1-5)				

Thursday, 23 June 2022

08:30-09:15	Plenary: Dr Moagabo Ragoasha Dr Mhlangabezi Mduyana (Great Ilanga, Elangeni)				
09:15-09:45	Tea (Elangeni foyer)				
09:45-10:30	2022 vision: strategies for adaptive management (Suite 1-2, Elangeni)	Novel insights from biology and ecology (Suite 3-4, Elangeni)	Novel insights from ecology and biology (Suite 5, Elangeni)	Environmental-Economic Accounting (Great Ilanga, Elangeni)	Global change: from prediction to action and adaptation (Tugela, Maharani hotel)
	--- Session 1a: Fish and fisheries: linking science and soc Session Chair: Matt Dicken	--- Session 2a: Species and their populations Session Chair: Johan Groeneveld	--- Session 2c: Biodiversity, discovery and prediction Session Chair: Nicola Carrasco	--- Session 8a: Environmental accounting for sustainable de Session Chair: Lara van Niekerk	--- Session 4e: Emergent and persistent threats to marine e Session Chair: Puleng Moloji
09:45-10:00	Are All Offshore Fluvial Deltas Ecologically Important Habitats? An 'Orange Cone' Ebsa Case Study Barry Clark; Erika Brown; Aiden Biccard; Kirti Gihwala; Karen Tunley	A Benthic Trawl Experiment: How do Faunal Communities Respond When Trawl Fishing Is Stopped? Lara Atkinson; Colin Attwood; Natasha Karenyi; Kerry Sink; Charles von der Meden; Grant van der Heever	Endobenthic Ecosystem Engineering: The Influence of Sandprawns (<i>kraussilichirus Kraussi</i>) On Zooplankton Assemblages *Abioye Oyatoye; Carla De Cerff; Cheryl Thomas; Grégoire Maniel; Deena Pillay	Indigenous Marine Innovations For Sustainable Environments and Economies: An Overview of The Imisee Project Francesca Porri; Paula Patrick; Lucienne Human; Boudina McConnachie; Eleonora Puccinelli; Betani Nkosazana; Michaela Howse; Cebo Mvubu; Phumile Cotiyane-Pondo; Kerry-Ann van	How Does Sublethal Glyphosate Exposure Affect Growth and Morphology of The Seagrass, <i>Zostera Capensis</i>? Willemien van Wyk; Sophie von der Heyden; Janine Adams

				der Walt; Rachel Wynberg	
10:00-10:15	<u>Catch Trends and Seasonal Distribution of Batoids Caught In Shark-Safety Gear Off The Kwazulu-Natal Coastline</u> NOMFUNDO NKABI; Kolobe Lucas Mmonwa	<u>Mussel Cover, Density and Size At Exploited and Unexploited Intertidal Reefs In Kwazulu-Natal</u> Erika Steyn; Johan Groeneveld; Jorge Santos; Xolani Mselegu	<u>Mapping Seabed Assemblages From South Africa's Demersal Trawl Surveys For Improved Management</u> Jock Currie; Francisco Murillo; Kerry Sink; Tracey Fairweather; Lara Atkinson	<u>The Blue Economy Valuation Toolkit In Seychelles: Notes From The Results and Its Possible Future</u> Stuart Laing	<u>Land-Cover Characteristics As An Indicator of Estuary Health</u> *Bianca McKelvey; Fiona MacKay
10:15 - 10:30	<u>Movement Patterns and Catch Trends of The Diamond Ray, <i>Gymnura Natalensis</i>, In South African Waters.</u> Ryan Daly; Gareth Lee Jordaan; Denham Parker; Jeremy Cliff; Nomfundo Nkabi; Robert Kyle; Sean Fennessy; Bruce Mann	<u>Worldwide Retrospective Genomic Analyses of Shortfin Mako (<i>isurus Oxyrhincus</i>) Reveals Complex Patterns of Population Sub-Structuring</u> Romina Henriques; Alice Manuzzi; Belen Jimenez-Mena	<u>Rostrum Abnormalities In The Endangered Indian Ocean Humpback Dolphin (<i>sousa Plumbea</i>)</u> Guilherme Frainer; Simon Elwen; Sasha Dines; Bridget James; Els Vermeulen; Gwenith Penry; O. Alejandra Vargas-Fonseca; Shanan Atkins; Danielle Conry; Tess Gridley		<u>Marine Heatwaves In The Southern Benguela</u> *Kirstin Petzer; Mathieu Rouault; Tarron Lamont
10:30-10:45	Break Session changeover				
10:45-12:45	2022 vision: strategies for adaptive management (Suite 1-2, Elangeni)	Novel insights from ecology and biology (Suite 3-4, Elangeni)	Novel insights from ecology and biology (Suite 5, Elangeni)	Lessons from the past (Great Ilanga, Elangeni)	Novel insights from ecology and biology (Tugela, Maharani hotel)

	<p>--- Session 1b: Adaptive conservation in a dynamic environm Session Chair: Mandy Lombard</p>	<p>--- Session 2a: Species and their populations Session Chair: Daniel Lemley</p>	<p>--- Session 2c: Biodiversity, discovery and prediction Session Chair: Jock Currie</p>	<p>--- Session 5b: Oceanographic variability over time Session Chair: Tarron Lamont</p>	<p>--- Session 2b: Communities and ecosystems Session Chair: Natasha Karenyi</p>
10:45-11:00	<p>Incorporating and Connecting Multi-Scale Oceanographic Features In Marine Spatial Planning and Management *Caroline Sejeng; Kerry Sink; Issufo Halo; Isabelle Ansorge; Laura Braby; Juliet Hermes</p>	<p>Antimicrobial, Anti-Quorum Sensing and Antibiofilm Potential of Pocillopora Species-Associated Bacterial Extracts *Olona Buswana; Hafizah Chenia; David Pearton</p>	<p>Does Protection Status, Seasons and Habitats Affect The Metal Contents In Saccostrea Cucullata Oyster *Olwethu Ndabankulu; Steven Thembinkosi Dlaza</p>	<p>Downstream Evolution of Hydrographic Properties and Fluxes Within The Agulhas Current Tamaryn Morris; Borja Aguiar-González; Tarron Lamont; Juliet Hermes</p>	<p>Between Light and Dark: Mesophotic Reef Communities and Their Environmental Drivers In The Amathole Region *Luther Adams; Natasha Karenyi; Denham Parker; Kerry Sink</p>
11:00-11:15	<p>Seagrass Transplantation As A Method To Rehabilitate Meadows In A Priority South African Lagoon *Katie Watson; Sophie von der Heyden; Deena Pillay</p>	<p>Isolation and Identification of Potential Probiotics From The Digestive Tract of The Short-Spined Sea Urchin (tripneustes Gratilla) *Emmanuel Akanbi; Henry Njom; Graeme Bradley; Niall Vine</p>	<p>Habitat Use By Juvenile Coastal Fish In Vegetated Habitats of Algoa Bay's Shallow-Water Seascape *Themhani Mkhize; Nicola James; Janine Adams; Shirley Parker-Nance</p>	<p>Towards An Integrated Ocean Observing System For South Africa Tamaryn Morris; Isabelle Ansorge; Laura Braby; Mardené De Villiers; Tania Daniels; Juliet Hermes; Tarron Lamont</p>	<p>Maxn Overestimates Patterns of Co-Occurrence and Poorly Describes Community Structure In Bruv Studies. *Emy Cottrant; Leslie Underhill; Meaghen McCord</p>
11:15-11:30	<p>The Effect of Participatory Scenario Planning Process On Climate Risk Perceptions</p>	<p>Mesozooplankton Responses To A Harmful Algal Bloom Induced By The Expatriate</p>	<p>Site and Habitat Effects On The Size and Protein Content of Ecklonia Radiata Kelp Along The South African East Coast</p>	<p>Assessing Techniques To Successfully Monitor The Oceanography of The Complex Uthukela Marine Protected Area.</p>	<p>Patterns and Drivers of Epifaunal Assemblages In Unconsolidated Outer Shelf Sediments of The Amathole Region.</p>

	<u><i>In Small Scale Fishing Communities.</i></u> *Tania Duba; Chris Jack; Anna Taylor; Juliet Hermes	<u><i>Dinoflagellate Lingulodinium Polyedra</i></u> *Mfundo Bizani; T.G Bornman; E.E. Campbell; Renzo Perissinoto; Shaun H.P. Deyzel	*Culumanco Sibotoboto ; Thembinkosi Steven Dlaza; Dumisani Horatius Kali	*Neha Ramsarup; Tamaryn Morris; Juliet Hermes; Matt Dicken	*Sinothando Shibe; Kerry Sink; Lara Atkinson; Nicola Carrasco
11:30-11:45	<u><i>The Spatiotemporal Distribution of White Sharks Has Implications For Interactions With Fisheries and Spatial Management</i></u> Alison Kock; Amanda Lombard; Ryan Daly; Victoria Goodall; Michael Meyer; Ryan Johnson; Chris Fischer; Pieter Koen; Dylan Irion; Enrico Gennari; Alison Towner; Oliver Jewell; Charlene da Silva; Matt Dicken; Malcolm Smale; Theoni Photopoulou	<u><i>Morphometric Analysis For Exploratory Stock Identification of Gilchristella Aestuarina (pisces: Clupeidae) From Diverse Environments Across Its Range.</i></u> *Munetsi Zvavahera; Sanet Hugo; Niall Vine; Olaf Weyl	<u><i>The Influence of Sampling Method On Detecting Offshore Benthic Biodiversity Patterns</i></u> *Silke Brandt; Natasha Karenzi; Lara Atkinson	<u><i>Cold Water Temperature Anomalies On The Sodwana Reefs and Their Driving Mechanisms</i></u> *Calvin Wells; Derek Stretch; Justin Pringle	<u><i>Barcoding of Estuarine Macrophytes and Phylogenetic Diversity of Estuaries Along The South African Coastline</i></u> Dimitri Veldkornet; Janine Adams; J.Stephen Boatwright; Anusha Rajkaran
11:45-12:00	<u><i>Into The Deep – Unlocking Namdeb’s Hidden Gems</i></u> Kegan Strydom	<u><i>Nursery Function of Shallow Nearshore and Estuarine Benthic Habitats For Demersal Fishes In Algoa Bay</i></u>	<u><i>Integrating Metabolomics and Genetic Data To Uncover Patterns of Diversity In Species of Ecklonia From Southern Africa</i></u>	<u><i>Drivers of Inter-Annual Sea Surface Temperature Changes Along South Africa’s East Coast</i></u>	<u><i>Biogeography and Biodiversity of The Rocky Shores Along The Namibian Coastline</i></u> Anja Kreiner; John Bolton; George Branch; Margo Branch; David

		*Phakama Nodo; Nicola James; Amber-Robyn Childs; Paula Patrick	Maggie M. Reddy; Stéphane Greff; Molly McCann; Anja Kreiner; Olivier P. Thomas; John Bolton	Marjolaine Krug; Laura Braby; Cristina Russo; Lisa Beal	Dyer; Charles Griffiths; Lineekela Kandjengo; Victor Libuku; Maya Pfaff; Andrea Pulfrich; Maggie Reddy; Nina Steffani; Evi Wieters; Zanné Zeeman
12:00-12:15	<u>From Hindsight To Foresight: Analysis of Stakeholder Comments On The Operation Phakisa Marine Protected Areas</u> Kerry Sink; Shakirah Rylands; Judy Mann-Laing; Megan van der Bank; Matthew Farthing; Warren Potts	<u>Zooplankton Assemblages Associated With Submarine Canyons Off The East Coast of South Africa</u> *Njabulo Mdluli; Jenny Huggett; Nicola Carrasco; Shael Harris; Amanda Lombard	<u>Coastal Biodiversity Connections of Living Microbialite Refugia In The Past and Present</u> Gavin Rishworth; Janine Adams; Hayley Cawthra; Carla Dodd; Arsalan Emami-Khoyi; Claudia Schnelle; Nadine Strydom; Peter Teske	<u>Kwazulu-Natal Bight Surface Circulation and Its Impact On Marine Protected Area Connectivity</u> *Sonia Heye; Marjolaine Krug; Pierrick Penven; Michael Hart-Davis; Mathieu Rouault	<u>Evaluating Spatial Protection of Reef Fish Communities In The Pondoland Marine Protected Area</u> Bruce Mann; Jade Maggs; Sean Porter; Wesley Dalton
12:15-12:30	<u>Marine Spatial Planning In Namibia</u> Anja Kreiner; Maria Amunyela; Rodney Braby; Gunnar Finke; Kira Gee; Roman Sorgenfrei		<u>There and Back Again: Confirmation of The Southern African Distribution of The Cryptogetic Marine Sponge Hymeniacidon Perlevis (montagu, 1814) In The Context of Its Global Dispersal</u> Toufiek Samaai; Dawit Yemane; Thomas Turner; Sven Kerwath;	<u>Variability In High Wave Energy Events Around The Southern African Coast</u> *Benjamin Oliver; Jennifer Veitch; Chris Reason	<u>Patterns In The Plankton: Long-Term Variability In Copepods On The Agulhas Bank</u> Jenny Huggett; Jacob Carstensen; Margaux Noyon; David Walker

12:30-12:45	Environmental Flows For Estuary Restoration Janine Adams; Lara Van Niekerk; Susan Taljaard		Jyothi Kara; Benedicta Ngwakum; Robyn Payne		
			A Cross-Disciplinary Approach To The Protection of South Africa's Threatened Sharks and Rays Jennifer Olbers; Nikki Chapman; Sandile Ntuli; Summer Newton; Jean Harris; Lauren van Nijkerk		Quantifying Complex Biogenic Habitat Provided By <i>Thouarella Spp. (octocorallia)</i>, and The Incidence of Associate Taxa Charles von der Meden; Paula Pattrick; Grant Van der Heever; Donia Wozniak; Francesca Porri; Lara Atkinson; Zoleka Filander; Prideel Madjit; Lisa Levin; Kerry Sink
12:45-13:45 Lunch (Ocean Breeze (2nd floor) & Lingela (ground floor), Elangeni)					
13:45-15:00	Global change: from prediction to action and adaptation (Suite 3-4, Elangeni) --- Session 4c: Evolution, ecosystems and global change Session Chair: Juliana Klein	2022 vision: strategies for adaptive management (Suite 1-2, Elangeni) --- Session 1b: Adaptive conservation in a dynamic environm Session Chair: Kaylee Smit	Global change: from prediction to action and adaptation (Suite 5, Elangeni) --- Session 4f: Advances and tools for marine conservation Session Chair: Lara Atkinson	People and the marine environment (Great Ilanga, Elangeni) --- Session 7a: Citizen science Session Chair: Kira Erwin	Novel insights from ecology and biology (Tugela, Maharani hotel) --- Session 2b: Communities and ecosystems Session Chair: Toufiek Samaai
13:45-14:00	A Sequential Account of A Major Ocean Weather Anomaly; Direct and	Assessing The Effects of No-Take Marine Protected Areas Across	Classification of Environmental Variables: A Predictive	How Social Science Can Help To Improve Communication About	A Geographical 'Hotspot' of Drifting Lobster

	<u>Indirect Impacts On Marine Life</u> Stephen Justin Lamberth; Niclas Baur; Tommy Bornman; Greg Brett; Nikki James; Marjolaine Krug; Cristina Russo; Paul Steyn	<u>Ecoregions and Rock Types</u> Ndiviwe Baliwe; Maya Pfaff; George Branch	<u>Tool To Support Marine Conservation</u> Kirsty McQuaid; Amelia Bridges; Kerry Howell; Kerry Sink; Mandy Lombard; Tiago Borges Ribeiro Gandra; Jock Currie; Vitor de Souza; Oliver T. Hogg; Tabitha R. R. Pearman; James Bell; Lara J. Atkinson; Diane Baum; Jarbas Bonetti; Alvar Carranza; Omar Defeo; Mary A. Gasalla; Neil Golding; Shannon L. Hampton; Sebastián Horta	<u>Marine Protected Areas – A Case Study</u> Judy Mann-Lang	<u>Larvae In The Kwazulu-Natal Bight?</u> Johan Groeneveld; Sohana Singh; Jenny Huggett
14:00-14:15	<u>Trends and Effects of Oceanic Noise On Whale Acoustic Detection Off South Africa’s West Coast</u> Fannie W. Shabangu; Dawit Yemane; Bobbi J. Estabrook; George Best	<u>Ecological Effectiveness of South Africa’s Mpas</u> Stephen Kirkman; Bruce Mann; Kerry Sink; Robin Adams; Tamsyn-Claire Livingstone; Judy Mann- Lang; Maya Pfaff; Toufiek Samaai; Megan van der Bank; Lauren Williams; George Branch	<u>Ecoregions of The Oceans Within The Eez of Southern Africa Based On Openly Available Biogeochemical Data</u> Dawit Yemane; Stephen Patrick Kirkman; Toufiek Samaai	<u>Piecing The Puzzle Together - Investigating Mass Abortion and Mortality In Cape Fur Seals (arctocephalus Pusillus Pusillus).</u> Tess Gridley	<u>A Unique Polychaete-Dominated Macrobenthic Community On The Fluviially-Dependent Uthukela Shelf, Kwazulu-Natal</u> Stacey Jordaan; Fiona MacKay
14:15-14:30	<u>Using Physiological Research Findings To Make Recommendations</u>	<u>Integrated Ecosystem Assessment To Support Ecosystem-Based</u>	<u>Improving Ocean Governance With Ocims and Mims</u>	<u>Re-Opening of Strictly No-Take Dwesa-Cwebe Mpa For Subsistence</u>	<u>Preliminary Analysis of Environmental and Ecological Data</u>

	<p><u>For Future-Proofing Our Coastal Fishery Species</u> Warren Potts; Amber-Robyn Childs; Cuen Muller; Lauren Bailey; Murray Duncan; Alexander Winkler; Kerry-Anne Van der Walt; Michael Skeeles; Bernard Erasmus; Carla Edworthy; Nicola James</p>	<p><u>Management In South Africa</u> Lisa Skein; Kerry Sink; Prideel Majiedt; Megan van der Bank; Lynne Shannon; Kaylee Smit</p>	<p>Marjolaine Krug; Lauren Williams; Tshikana Rasehlomi</p>	<p><u>Fishing Gives Insight Into Socio-Ecological Linkages Along The Wild Coast</u> Thembinkosi Dlaza; Dumisani Kali</p>	<p><u>Collected From South Africa In The Frame of The Sea Turtles For Ocean Research and Monitoring (storm) Research Programme</u> Olivier Bousquet</p>
14:30-14:45	<p><u>Worldwide Assessment of Genetic Diversity and Demographic History of Tiger Sharks Using Historical Samples</u> Alice Manuzzi; Romina Henriques; Belen Jimenez-Mena; Camilla Christensen; Danielle Davenport; Janette Edson; Michael Bennett; Charlie Huvener; Jennifer Ovenden; Einar E Nielsen</p>	<p><u>Supporting Marine Spatial Planning With An Ecosystem Model In Algoa Bay, South Africa</u> Kelly Ortega Cisneros; Emily Weigum; Russell Chalmers; Samantha Grusd; Amanda Lombard; Lynne Shannon</p>	<p><u>Sounds of A Changing Sea: Using Passive Acoustic Monitoring To Explore Coastal Biodiversity In Mozambique</u> Ashlee Lillis; Michelle Caputo; Mario LeBrato; Karen R. Bowles; Fannie Shabangu</p>	<p><u>Socio-Economics and Politics of Racial Transformation In The South African Marine and Coastal Sciences Research</u> Kolobe Lucas Mmonwa</p>	<p><u>Reactions of Microplankton On Physical Drivers In The Northern and Southern Benquela Upwelling Systems</u> Bettina Martin; Knut Heinatz; Sophia Hirschmann; Rolf Koppelman</p>
14:45-15:00		<p><u>The “Low Hanging Fruit” – Opportunities To Expand South Africa’s Marine Protected Area Estate</u></p>	<p><u>Enhanced Evolution: A Viable Strategy For Climate Resilience In Corals?</u> David Glassom</p>	<p><u>Trends In A Recreational Mussel Fishery In Kwazulu-Natal, Based On Postal-, Telephone- and Online Surveys</u></p>	<p><u>The Seascape of Coastal Nursery Areas In Temperate Algoa Bay, South Africa</u></p>

	Kendyl Wright; Jean Harris; Samantha Hofmeyr		Erika Steyn; Johan Groeneveld; Jorge Santos; Alke Kruger; Xolani Mselegu; Michael Scheyer	Nicola James; Amber Childs; Gavin Rishworth; Anusha Rajkaran; Lucienne Human; Paul-Pierre Steyn; Janine Adams; Taryn Murray; Carla Edworthy; Thembani Mkhize; Phakama Nodo; Aidan Jacobs; Mihle Gayiza; Melissa Pollard; Kylene Brown
15:00-16:00	Closing Ceremony & Prize Giving (Great Ilanga, Elangeni)			
16:00-16:30	Tea (Elangeni foyer)			
16:30-19:00	Opportunities in marine science information session (Suite 1-2, Elangeni)			

Friday, 24 June 2022

07:30-08:30	Arrival tea	
08:30-17:30	Application of automated pattern recognition, computer vision, machine learning/artificial intelligence in marine science: Where are we in South Africa? (Great Ilanga, Elangeni)	
08:30-12:30	Identifying next steps to advancing marine ecosystems assessments (Suite 3-4, Elangeni)	Next-generation sequencing applications in marine biology (Suite 1-2, Elangeni)
		Seeing is believing: Incorporating multibeam bathymetry data collection into marine biological projects (Suite 5, Elangeni)
10:00-10:30	Tea	
12:30-13:30	Lunch	
15:00-15:30	Tea	

Posters

1	A Comparison of Mangrove and Estuarine Fish Diversity Using Edna Metabarcoding and Baited Remote Underwater Video In South Africa and Mozambique
	*Jamila Janna; Nasreen Peer; Sophie von der Heyden; António de Sacramento Cabral
2	A Lost Lake St Lucia? Evidence For A Palaeo-Mkhuze River Lagoon
	*Diaksha Ramdhunee; Andrew Green; Marc Humphries; Andrew Cooper
3	An Investigation of The Phenology of Oceanic Turbulence In The Agulhas Current
	*Nasreen Burgher; Laura Braby; Steven Herbette; Juliet Hemes; Michael Roberts
4	Assessing Androgen Cycles In Male Southern Right Whales (eubalaena Australis) Through Baleen Analysis
	*Meghan van Zyl; Els Vermeulen; Kathleen Hunt; Alejandro Fernández Ajó; Andre Ganswindt
5	Assessing Changes In The Distribution and Anthropogenic Pressures of Mangrove Forests Along The Eastern Cape Coastline
	*ANESU MACHITE; Janine Adams

6	Assessment of Heavy Metals In Macroalgae-Limpet Species and Biomagnification of These Metals Along South-East Coast, South Africa
	*Nokubonga Mbandzi; Motebang Dominic Nakin; Adebola Oyedeji
7	Behavioural Responses of Cape Fur Seals To Swim-With-Seal Tourism Activities In The Robberg Mpa
	*Rodashia Basson; Stephen Kirkman; Kenneth Findlay
8	Benthic Macrofaunal Community Structure of The St Lucia Estuary Mouth, Following The Latest Mouth Restoration Project.
	*Puleng Moloi; Nicola K. Carrasco; Matthew S. Bird ; Gavin M Rishworth
9	Bioaccumulation of Microplastics In Perna Perna and Sacostrea Cucullata Along The North Coast of Kwazulu-Natal.
	*Sbusiso Cyril Mkhabela; HMM Mzimela; NF Masikane
10	Brown Mussel Harvesting and Seeding At Dwesa Cwebe
	*Olwethu Maqalekana; T.S Dlaza; H.D Kali
11	Characteristics of Ecotypes of Zostera Capensis In Two Contrasting Micro-Environments
	*Frederick Mokumo; Sophie von der Heyden; Guy Midgley; Janine Adams
12	Community Perceptions On The Role of Seagrass Ecosystems For Coastal Protection
	*Manuela Amone-Mabuto; Marlino Mubai; Salomão Bandeira; Mwanahija Shalli; Janine Adams; Blandina Lugendo; Johan Hollader
13	Comparison of The Metabolic Physiology of Exploited and Unexploited Populations of Red Roman Fish
	*Xolani Nabani; Amber Childs; Lauren Bailey; Warren Potts
14	Copepod Abundance and Size Composition On The Southeast Shelf of South Africa
	*Marco Worship; Jenny Huggett
15	Cryptic Species Or Not? Population Genetics of The Red-Chested Sea Cucumber Hemiocnus Insolens
	*Yi-Ting Ho; Emma Rocke; Natasha Karenyi
16	Cytotoxic Potential of Selected Mollusc Shell Species Against Cancer and Non-Cancerous Cells In The Wild Coast
	*Viwe PAYA; M.D.V Nakin; O.A Oyedeji; G.M Saibu; Mervin Meyer
17	Cytotoxicity Profile of Red Algae Species Found Along The Coastline of The Eastern Cape Province
	*Faith Masilive Mshiywa; Graeme Bradley
18	Distribution and Abundance of Microplastics In An Urban Estuary
	*Aamirah Botha; Anusha Rajkaran
19	Dna Barcoding and Edna Metabarcoding of Riverine and Estuarine Fauna In Mozambique

	*Claudia Schnelle; Peter Teske; Sophie Von Der Heyden; Arsalan Emami-Khoyi
20	Effect of Protection On The Biochemical and Amino Acid Composition of Cymbula Oculus and Scutellasta Longicosta.
	*Sethu Mnqotho; Thembinkosi Steven Dlaza
21	Entanglement Rates of Cape Fur Seals (arctocephalus Pusillus Pusillus), In South Africa
	*Maguiña Ramilo Henry; Simon Elwen; Tess Gridley
22	Establishment of Neural Cell and Inflammation-Specific Immunohistochemical Markers In Dolphin Brain Tissue
	*Christina Ruopp; Stephanie Plön; Natasha Roussouw; Dirk Lang
23	Feather Star (echinodermata: Crinoidea) Diversity of The Khathiawar Peninsula, Western India
	*Hitisha baroliya; Rahul kundu; Jenish Kavathiya
24	Feeding Traits and Bioremediation Ability of The Sea Cucumber Neostichopus Grammatus Fed Potential Aquaculture Wastes.
	*Abigail Onomu; Matthew Slater; Niall Vine
25	Finding The Sweet Spot: Drilling Precision On Shelled Molluscs By Octopus Vulgaris In False Bay, South Africa
	*Gareth Fee; Jennifer Mather; Jannes Landschoff; Charles Griffiths
26	Future Predicted Changes In Temperature and Ocean Ph Affect Survival and Shell Strength of The Cultured Oyster Crassostrea Gigas
	*Thierry Bassett; Tamara Robinson
27	Gut Bacterial Microbiome of The Sea Urchin Parechinus Angulosus Using Metabarcoding
	*Suzanne Redelinghuys; Francesca Porri; Gwynneth Matcher
28	Heavy Metal Concentration In Water of The Eastern Cape Coast
	*Siyasanga Zoko; Motebang Nakin
29	Hydro-Acoustic Discrimination and Biomass Estimation of Jellyfish Along The Namibian Coast – Revisiting The 2003 Abundance Estimate.
	*Ukarapo Mungunda; Janet Coetzee; Bjørn Erik Axelsen; Mark Gibbons
30	Identification of Mesopelagic Fish Species Using Multi-Frequency Acoustic Approaches – Implications For Biomass Estimation
	*Benedicto Kashindy; Coetzee Janet; Bjørn Axelsen; Mark Gibbons
31	Impact of Ocean Acidification On The Metabolic Performance of Early-Stage Larval Red Roman (chrysolephus Laticeps)
	*Cuen Muller; Warren Potts; Cuen Childs; Nicola James
32	Interactive Effect of Temperature, Nutrient Level and Sandprawn Ecosystem Engineering On Microplankton Community Structure
	*Oluwasegun Ogunnusi; Deena Pillay; Rocke Emma; Cheryl Thomas

33	Investigation of The Deep Scattering Layer Along A Trans-Equatorial Transect In The Atlantic Ocean
	*Alix Rommel; Tim Dudeck; Werner Ekau; Heino Fock
34	Links Between Wave Exposure and Rocky Shore: Validation of A Model-Based Habitat Classification Scheme
	*Ndanduleni Ivy Malwela; Maya Catharine Pfaff
35	Macroinfaunal Community In False Bay, South Africa.
	*Bomikazi Tshingana; Natasha Karenyi
36	Making A Living Out of The Estuary: Provisional and Cultural Ecosystem Services
	*Sipesihle Booi; Syden Mishi; Oddgeir Andersen
37	Mapping Bioregions On The West Coast of South Africa Using Epifaunal Trawl Survey Data
	*Donia Wozniak; Lara Atkinson; Natasha Karenyi
38	Marine Epifaunal Community Patterns Along The Shelf-Slope Transition Zone of The Agulhas Ecoregion
	*Leila Nefdt; Natasha Karenyi; Charles Griffiths; Lara Atkinson; Kerry Sink
39	Metal Bioaccumulation and Acetylcholinesterase Activity In Brown Mussels From Thukela Beach, Mvoti Estuary and Sheffield Beach.
	*Ntando Majola; Hendrick Mabutho Mduduzi Mzimela
40	Microplastics In Rocky Shores and Echinoderms From The Western Cape, South Africa.
	*Danielle Julius; Adetunji Awe; Conrad Sparks
41	Molecular Phylogeny and Systematics of The Genus Adeonella (bryozoa, Cheilostomatida) From False Bay, South Africa
	*Ntombifikile Nxiba; Melissa Boonzaaier-Davids; Jyothi Kara; Rashieda Toefy
42	Mombasa Port Operations and The Impact of Green House Gases Emissions
	*MERCY AMAI EMOJONG ; DENIS OMBUNA
43	Monitoring River Plumes In The Aghulhas Bank Using Machine Learning Techniques On Remote Sensing Data
	*Humesni Pillay
44	Monitoring The Impact of Deforestation On An Aquatic Ecosystem Using Remote Sensing: Case Study of The Mngazana Mangrove Forest In The Eastern Cape Province, South Africa.
	*Akhona Madasa
45	Morphological and Molecular Identification of Nereididae (annelida) In The Knysna Estuary, South Africa
	*Danne Beeslaar; Carol Simon; Jyothi Kara; Arturo Alvarez-Aguilar

46	Nexus Between Port Performance and Air Quality Management, The Case of Mombasa Port
	*DENIS OMBUNA SIMON; MERCY AMAI EMOJONG
47	Numerical Study of Wave Propagation Above Bathymetries
	*Corinne Marinà BARITIRY; Adolphe Andriamanga RATIARISON
48	Patterns In Diversity, Distribution and Abundance of The Mesopelagic Fishes Across The Indian Ocean In Relation To Environmental Factors
	*Osvaldo Chacate; Janet Coetzee; Mark Gibbons; Bjørn Axelsen; Dag Aksnes
49	Pelagic Food Web Structures In The Northern and The Southern Benguela Upwelling Systems
	*Sabrina Duncan; Holger Auel; Maya Bode-Dalby; Heino Fock; Wilhelm Hagen; Rolf Koppelman; Bettina Martin
50	Photographic Observations of Anaulus Australis At Muizenberg Beach, False Bay, South Africa: What 47000 Photos Can Tell Us About Surf-Zone Diatoms
	*Casha de Vos; Marthinus Bosman; Danel Wentzel; Nicole Dames; Emma Rocke; Coleen Moloney
51	Photosynthetic Activities of Ecotypes of Zostera Capensis From Knysna Estuarine Bay, South Africa
	*Frederick Mokumo; Sophie von der Heyden; Guy Midgley; Janine Adams
52	Population Assessment of Heaviside's Dolphins (cephalorhynchus Heavisidii) In Walvis Bay, Namibia
	*Rachel Probert; Tess Gridley; Simon Elwen
53	Prevalence, Population Structure and Burrow Morphology of The Kelp-Boring Amphipod Sunamphitoe Roberta
	*Maxine Wilcox; Jannes Landschoff; Charles Griffiths
54	Reproductive and Dietary Responses of Ecosystem Engineer (kraussillichirus Kraussi) To Human Disturbance In Langebaan Lagoon.
	*Kezia Madell; Deena Pillay
55	Long-Term Analysis of Microplastics and Meiofauna In Mpenjati Estuary, Kwazulu-Natal, South Africa
	*Jethro Broughton; Gan Moodley; Deborah Robertson-Andersson
56	Reproductive Cycle of Pseudocnella Sykion (lampert, 1885), From Kwazulu-Natal, South Africa
	*Jethro Broughton; Gan Moodley
57	Sexual and Asexual Reproduction In Holothuria Cinerascens (brandt, 1835), From Kwazulu-Natal, South Africa
	*Jethro Broughton; Gan Moodley
58	Resilience, Stability and Spatio-Temporal Variability In Macrobenthic Community Structure In Langebaan Lagoon
	*Geena Williams

59	Rocky Shores and Rivers: Geomorphology of The Mazeppa Bay To Port St. Johns Shelf
	*Sashan Manikam; Andrew Green ; Andrew Cooper; Gaynor Deacon
60	Sediment Metal Toxicity and Bioaccumulation In The Bhizolo Canal and Adjacent Mudflat, Richards Bay Harbour
	*Nivashni Nariensamy
61	Sensitivity of Grandierella Bonnieroides To An Organic Contaminant Sds and Photoperiod Effect On Amphipod Survival.
	*Mthokozisi Xulu; Sibusiso Mkhabela; Ntuthuko Masikane
62	Southern Right Whale Foraging Ecology and Migratory Behaviour In A Changing Climate
	*Matthew Germishuizen; Gideon Leon van den Berg; Els Vermeulen
63	Stable Isotope Connectivity In Seaweeds and Invertebrates At Dwesa-Cwebe Mpa Along The South African Wild Coast
	*Alizwa Mdludlu ; Theminkosi Steven Dlaza
64	Study of Feasibility Socio-Technical and Culture Test of Halymenia Durvillei In South West of Madagascar.
	*Mbolatiana Zon'Oliva RAZAFIMHAZO; Thierry LAVITRA; Lantoasinoro Nirinarisoa RANIVOARIVELO
65	Submerged Shorelines of The Inner To Mid-Shelf Offshore Hottentots Bay, Namibia.
	*TAMERA HEERALAL; Andrew Green; TAMLYN GOURRAH
66	Taxonomic Revision of The Squat Lobsters (chirostyloidea and Galattheoidea) of South Africa
	*Thomas Petrus Arnoldus Botha; Charles Griffiths; Lara Atkinson; Enrique Macpherson
67	The Alien Amphipod Jassa Marmorata Shows Little Vulnerability To Ocean Acidification and Future Changes In Temperature
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