



Programme for the ICES/PICES Conference for Early Career Scientists

Oceans of Change

**23–27 April 2012
Calvià, Majorca, Spain**

Sponsors



Local Host



MONDAY 23

From 13:00	Registration at the Hotel
16:00-18:00	Steering Committee and convener's meeting
19:00–21:30 (approx)	Wellcome at the Castell de Bellver
19:00	Buses at the Hotel
19:30	Informal welcome words Invited: City Major delegate, GD Research Miguel José Deyà, Beatriz Morales, and Ignacio Catalán
19:45	Finger food and wine

TUESDAY 24

	Plenary room		
09:00–9:30	Open ceremony Welcome by Authorities/Organisers Miguel José Deyà (GD Research, Balearic Islands), Jaume Jesús Carot (Vice-rector, University of the Balearic Islands), Skip McKinnell (PICES), Antoni Alcover (Vice director of IMEDEA), Ignacio Catalán (IMEDEA, Local organizer)		
09:30–10:10	Conveners: Joaquín Tintoré, Ignacio Catalán, Helen Findlay Keynote Senior: <u>Joaquín Tintoré</u> (Spain): <i>From Small to large Scales: the real challenges in the next decades</i>		
10:10–10:30	Invited Junior Talk: <u>Marta Coll</u> (Spain): <i>The Mediterranean Sea under siege: a beautiful, but complex and highly impacted large marine ecosystem</i>		
10:30–10:50	Invited Junior Talk: <u>Akinori Takasuka</u> (Japan): <i>Early growth and spawning of small pelagic fish in the western North Pacific: biological processes linking climate variability to species alternations</i>		
10:50–11:25	Coffee break /room conversion		
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top; border-right: 1px solid black; padding: 5px;"> S1:B1.Impact of Change on Marine Ecosystems Conveners: Marta Varela and Marta Coll </td><td style="width: 50%; vertical-align: top; padding: 5px;"> S1:B2. Human Interaction with the Marine Environment Conveners: Ignacio Catalán and Eun Jun Choy </td></tr> </table>	S1:B1.Impact of Change on Marine Ecosystems Conveners: Marta Varela and Marta Coll	S1:B2. Human Interaction with the Marine Environment Conveners: Ignacio Catalán and Eun Jun Choy
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11:25–11:45	274. Jan-Olaf Meynecke (Australia). Marine protected areas and giant mud crabs (<i>Scylla serrata</i>) – an individual based model approach from Moreton Bay, Australia	323. Sam Rastrick (UK). The effect of ocean acidification and temperature on the physiological response of ecologically important benthic invertebrates: Possible effects on growth, reproduction and organism health'
11:45–12:05	381. Nam-Il Won (Korea). Environmental effects on marine benthic communities: implications from ecological studies on abalone <i>Haliotis discus hannai</i> in Pacific coast of northern Japan	464. Lauren Gregoire (UK). Can we emit enough CO ₂ to cause dangerous ocean acidification?
12:05–12:25	84. Louise Firth (UK). Extreme environmental conditions and intertidal organisms: examples from two case studies in the sub-tropics	497. Kirsten Redmond (Norway). Real-time environmental monitoring with whole organisms: a method to link risk assessment, monitoring and possible environmental impacts
12:25–12:45	172. Raquel Vaquer-Sunyer (Spain). Temperature effects on oxygen thresholds for hypoxia in marine benthic organisms	174. Sarah Henkel (US). Addressing potential interactions of ocean renewable energy development and benthic communities
12:45–13:05	448. Dafne Eerkes-Medrano (US). Differential effects of oxygen and nearshore environmental conditions on decapod meroplankton	522. Ana Sousa (Portugal). Salt marshes' meaning on nitrogen remediation
13:05–13:25	490. David Elliott (US). Sublethal effects of hypoxia: Feeding of the copepod <i>Acartia tonsa</i>	115. Gwladys Lambert (UK). Assessing the large-scale effects of fishing on habitat complexity and associated communities using novel cost-effective underwater imagery methods
13:25–13:45	526. Karyn Suchy (Canada). Using a novel approach to estimate community-level secondary production: how do copepod communities respond to variations in food quality?	521. Jameal Samhouri (US). Risky business: linking land- and sea-based activities to risk in coastal ecosystems
13:45–15:00	<p style="text-align: center;">Lunch</p> <p style="text-align: center;">Note. From 11.00 hrs, posters can be placed on the poster panels (close to the restaurant)</p>	
	S2:B1. Impact of Change on Marine Ecosystems	S2:B2. Human Interaction with the Marine Environment
	Conveners: Helen Findlay and Abigail McQuatters-Gollop	Conveners: Nina Overgaard Therkildsen and Akinori Takasuka
15:00–15:20	147. Kit Yu Karen Chan (US). Ocean acidification impacts on early life history stages of echinoids	499. Tara Duffy (US). Using life-history variation to understand and predict endocrine disruption in marine and anadromous fish species
15:20–15:40	88. Sebastian Hennige (UK). Acclimation of the cold water coral <i>Lophelia pertusa</i> to predicted rises in atmospheric CO ₂ and sea temperatures	195. Neala Kendall (US). Evolution of age and size at maturation of Alaskan sockeye salmon under size-selective
15:40–16:00	283. Jonathan Reum (US). Ocean acidification and recruitment dynamics of forage fish in coastal upwelling systems	236. Josep Alos (Spain). Moving predator and preys in the context of fisheries-induced evolution

16:00–16:20	338. Kristy Kroeker (US). Ocean acidification affects recruitment and competition in benthic communities surrounding natural CO ₂ vents	80. Johnson, Andrew (UK). Indirect effects of a bottom trawl fishery on the diet of demersal fish species
16:20–16:40	537. J Michael Beman (US). Global declines in oceanic nitrification rates as a consequence of ocean acidification	350. Christoph Petereit (Germany). Effects of suspended sediments on eggs and yolk-sac larvae of commercially important fish species
16:40–17:00	Coffee break	
17:00–19:00	Workshop 1. Communicating science. M. Pastoors Cooperation between marine and maritime research. W. Wawrzynski	
19:00–20:00	Pre-dinner Social, poster session	
20:00	Dinner at Hotel (Bufette)	

WEDNESDAY 25

Plenary room		
	Conveners: Jack Barth, Bryan Black, and Marta Varela Keynote Senior: <u>Jack Barth (US)</u> : <i>New Eyes on our Changing Ocean</i> Invited Junior talk: <u>Monique Messié (US)</u> : <i>Synchronous global-scale patterns of variability in ocean color and physical variables: ecosystem functioning in relation to climate variability and change</i>	
9:00–9:40		
9:40–10:00		
10:00–10:20	Invited Junior talk: <u>Eun Jung Choy (Korea)</u> : <i>Comparison of the Nakdong River estuary and Marian Cove, King George Island to estimate trophic base using stable C and N isotopes</i>	
10:20–11:00	Coffee break /room conversion	
	S3:B1 Impact of change on marine Ecosystems Conveners: Hanna Na and Monique Messié	S1:B3 New Tools and Views Conveners: Bryan Black and Malin Pinsky
11:00–11:20	114. Ekaterina Sofina (Russian F.). Evaluation of diapycnal mixing in the Arctic Ocean for improvement of climate models	222. Pablo Otero (Spain). Recent advances in the knowledge of the coastal ocean circulation off the Euro region Galicia-North Portugal using a high resolution ocean model
11:20–11:40	465. Raquel Somavilla Cabrillo (Germany). Temperature and salinity changes in the deep Arctic Ocean	282. Evan Turner (US). Simulating Nutrient Cycles of Coastal Waters using NPZ Model Ensembles

11:40–12:00	518. Ayan Chaudhuri (US). Basin-scale response of the eastern and western North Atlantic circulation to an episodic climate event	163. Mustafa Yucel (France). <i>In-situ</i> biogeochemical tools to study sulfide speciation and dynamics in marine environments
12:00–12:20	101. Maxime Cyril Bridoux (US). Diversity and Environmental Distribution of Long Chain Polyamines: Role in Global Biogeochemical Cycles and Paleoceanographic Reconstruction	143. Sung Yong Kim (US). Sustained observations of mesoscale and submesoscale surface circulation off the U.S. West Coast.
12:20–12:40	256. Manuel Hidalgo (Norway). Fishing-induced size erosion can trigger antagonist evolutionary demography	417. Nibedita Mukherjee (Belgium). Caught in the net: Ecological functionality of mangroves
12:40–13:00	495. Taewook Park (Korea). ENSO-related sea surface salinity variability in the Yellow and East China Seas	200. Gerrit Nanninga (Saudi Arabia). Reconstructing larval connectivity in the Red Sea
13:00–13:20	00. Bryan Black (US). Of trees, birds, and fish: a 498-year history of upwelling variability in the California Current Ecosystem	530. Robin Kodner (US). Phytoplankton in a Changing World: What we can learn from Metanomics Technologies
13:20–14:15	<p style="text-align: center;">Lunch</p> <p style="text-align: center;">Buses leaving for offsite excursion</p> <p style="text-align: center;">Offsite outing to the Northern Coast and back with bus</p> <p style="text-align: center;">Free night</p>	
14:30		
20:00		

THURSDAY 26

Plenary room		
9:00–9:40	<p style="text-align: center;">Conveners: Anne Hollowed, Nina Overgaard Therkildsen and Hanna Na</p> <p>Keynote Senior: <u>Anne Hollowed (US)</u>: <i>Climate change effects on fish and fisheries: current outlooks and a roadmap for interdisciplinary research</i></p>	
9:40–10:00	Invited Junior talk: <u>Abigail McQuatters-Gollop (UK)</u> : <i>Challenges for managing our seas in a climate of macroecological change</i>	
10:00–10:20	Invited Junior talk: <u>Malin Pinsky (US)</u> : <i>Speed traps and speeding tickets: can marine species keep up with rapid climate velocities?</i>	
10:20–11:00	<p style="text-align: center;">Coffee break/room conversion</p>	
	<p>S4:B1. Impact of Change on Marine Ecosystems</p> <p>Conveners: Marta Varela and Marta Coll</p>	<p>S4:B2. Human Interaction with the Marine Environment</p> <p>Conveners: Naoki Yoshie and Malin Pinsky</p>
11:00–11:20	270. Bridget Ferriss (US). Regional variation in the growth of salmon along the coast of British Columbia, Canada	489. Carey McGilliard (US). Accounting for marine reserves and fish movement in stock assessments

11:20–11:40	116. Hao Yu (US). Interannual spatial distribution of yearling spring Chinook salmon off Washington and Oregon	268. Daphne Munroe (US). How do fishery and marine protected area strategies influence metapopulation genetic connectivity? A modeling study with oysters.
11:40–12:00	459. Anne Beaudreau (US). Effects of climate variability on the distribution of demersal fishes in the California Current Large Marine Ecosystem	534. Olaf Jensen (US). Meta-analysis of exploited marine fish populations using the RAM Legacy Stock Assessment Database
12:00–12:20	383. Seo Hyunju (Korea). The effect of global warming and density-dependence on Hokkaido chum salmon from the 1940s to the early-2000s	204. James Thorson (US). Developing a generic platform and database for global fisheries meta-analysis, with application to natural mortality and recruitment compensation
12:20–12:40	420. Filipe Martinho (Portugal). Estuarine fish assemblages as indicators of environmental changes: the Mondego estuary case study	456. Kjell Rong Utne (Norway). Multispecies modelling of pelagic fish species in the Norwegian Sea—how to optimize the long term yield
12:40–13:00	412. Lauren Rogers (Norway). Linking climate variability to Atlantic cod population dynamics along the Norwegian Skagerrak coast	289. Dorothy Dankel (Norway). What is the new generation of ICES science communication and advice? Putting interdisciplinary challenges into practice in ICES Expert Groups
13:00–13:20	113. Robert Leaf (US). Phenology of the Northeast US Continental Shelf and its relationship to commercial groundfish production.	382. Kristen Marhaver (US). How to organize and communicate conservation science for maximum policy impact in the Age of Google
13:20–14:30	Lunch	
	S5:B1. Impact of Change on Marine Ecosystems Conveners: Hanna Na and Monique Messié	S5:B2. Human Interaction with the Marine Environment Conveners: Ignacio Catalan and Abigail McQuatters-Gollop
14:30–14:50	492. Phoebe Chan (Canada). Interdecadal Variability in Coralline Algal Calcification Rates in Response to the Pacific Decadal Oscillation	502. Lasse Marohn (Germany). Translocation of eels into freshwaters: a management tool without impact?
14:50–15:10	135. Pablo Saenz-Agudelo (Saudi Arabia). Larval connectivity and population replenishment in a coastal coral reef metapopulation	511. Gavin Fay (US). Management strategy evaluation of ecological indicator based approaches for ecosystem-based fisheries management
15:10–15:30	339. Raffaele Bernardello (US). Response of phytoplankton community structure to climate change: an IPCC AR5 earth system model inter-comparison	531. Katie Arkema (US). Getting the science into the hands of managers: ecosystem service models for marine spatial planning and climate assessment
15:30–15:50	433. Ertugrul Agirbas (Turkey). Decadal changes in chlorophyll-a and phytoplankton size classes derived from <i>in-situ</i> pigment data from the Atlantic Meridional Transect program (AMT)	547. Jamie Womble (US). Assessing overlap between a wide-ranging marine vertebrate and human-related threats

15:50–16:10	501. Tessa Francis (US). Climate effects on zooplankton interactions and community stability in the Northeast Pacific: a moving-window analysis.	139. Julie Rose (US). Exploring the science and policy of using shellfish aquaculture for nutrient removal in the coastal environment
16:10–16:40	Coffee break	
16:40–18:30	Workshop 2. How to write a good proposal J. Barth, J. Tintoré Life as a scientist in an Intergovernmental Organization S. McKinnell, A. Kellermann, P. Dengbol, A. Hollowed, S. Pedersen PICES inside PICES outside ICES inside Working in ICES – the Science Policy Interface The ICES Training Programme	
19:00	Buses departing to the Dinner Dinner SON TERMENS	

FRIDAY 27

09:00	S6:B1. Impact of Change on Marine Ecosystems Conveners: Helen Findlay and Eun Jun Choy	S6:B2. Human Interaction with the Marine Environment Conveners: Nina Overgaard Therkildsen, Akinori Takasuka
9:00–9:20	98. Charles Novaes de Santana (Spain). Topological properties of Arctic and Antarctic food webs	546. Kristin Kleisner (Canada). Regional patterns in global food provision—current status and likely future conditions: is less more?
9:20–9:40	208. Bayden Russell (Australia). Ecosystem resistance to predicted phase-shifts: will grazers help save kelp forests?	379. Jamie Cournane (US). Community-Based Fisheries Management of an Anadromous Alosine
9:40–10:00	341. Elizabeth Siddon (US). Shifts in community structure reflect species-specific responses to climate variability in sub-arctic seas	555. Sebastian Villasante (Spain). Marine ecosystem services, synergies and trade-offs in Peninsula Valdés (South Patagonia, Argentina)
10:00–10:20	92. Lorna Teal (Netherlands). Climate change, Dynamic Energy Budgets and Spatio-temporal dynamics	444. Joanna Murray (UK). Managing the Marine Aquarium Trade: Revealing Data Gaps using Ornamental Polychaetes

10:20–10:40	91. Elliot Hazen (US). Predicting Top Predator Habitat Shifts using Global Climate Change Models	314. Claire Goll��ty (UK). Linking BEF research with coastal management: Effect of (1) <i>Ascophyllum nodosum</i> harvesting and (2) saltmarsh plants restoration on biodiversity and ecosystem functioning
10:40–11:10	Coffee break	
	S7:B1. Impact of Change on Marine Ecosystems Conveners: Bryan Black and Malin Pinsky	S7:B2. Human Interaction with the Marine Environment Conveners: Naoki Yoshie and Monique Messi��
11:10–11:30	330. Robinson Fulweiler (US). Times they Are a-Changin' - Examining Long-term Changes and Short-term Variations in Benthic-pelagic Coupling and Sediment N Cycling in the Coastal Ocean	266. Steven Barbeaux (US). Monitoring on a shoestring: The use of commercial fishing vessels as inexpensive sampling platforms for long-term biological and oceanographic monitoring
11:30–11:50	397. Timothy Sullivan (Ireland). Continuous monitoring to detect short-term variability and long-term change in Irish marine waters: local and global benefits.	354. Michael Melnychuk (US). Harvest control rules and the adaptive capacity of fishery management systems for confronting climate change impacts on marine populations
11:50–12:10	205. Mary Hunsicker (US). The spatial effects of climate variability and demography on predator-prey interactions in the Gulf of Alaska ecosystem	548. Catherine Longo (US). Mapping sustainable uses of the ocean: the Ocean Health Index
12:10–12:30	166. Scott Large (US). Delineating Ecosystem Overfishing via Analysis of Ecosystem Indicator Inflection Points	389. Daniel Oesterwind (Germany). One question, two answers? - A comparison between primary and secondary fish stock indicators to be used within the EU MSFD
12:30–12:45	Concluding remarks and end of meeting. Adi Kellermann (ICES)	
12:45–14:00	Lunch	