

Oral presentation listing

Time	Allocation	Lead author	Title
Monday 14 September			
09:30	Keynote	Einar Svendsen	Future information-needs to meet the ecosystem approach to marine research and management
Theme 5: Socio-economic aspects and management strategies – what are the key needs and resulting decisions and actions that should guide oceanic resource management under climate change			
10:00	O5.1	S. Dueri*	Projecting the impact of climate change and socio-economic scenarios on the global skipjack tuna fisheries
10:15	O5.2	M. Juan-Jordá	Progress of tuna regional fisheries management organizations in applying an ecosystem approach to fisheries management
10:30	O5.3	C. Mullon	A network model to test for future scenarios about the global supply chain for tuna
10:45	O5.4	D. Squires	Ecosystem impacts under climate change: a strategy of incentivizing
Theme 2: Implications of potential distribution and abundance shifts in oceanic organisms for food security and species conservation			
11:30	O2.1	H. Arrizabalaga	Habitat shifts for commercially valuable tunas
11:45	O2.2	B. Arthur	Predicting the availability of foraging habitats under changing ocean conditions: What can seven years of tracking a wide-ranging predator tell us?
12:00	O2.3	M. Baumgartner	Monitoring changes in baleen whale distribution from a variety of autonomous platforms
12:15	O2.4	E. Blanco Gonzalez	Climate change and the development of the corkwing wrasse (<i>Symphodus melops</i>) fishery in Scandinavia: genetic population structure and potential implication of translocated cleaner fish
12:30	O2.5	M. Hindell	Foraging habitat requirements of a Southern Ocean predator (the southern elephant seal), and an assessment of potential changes in population distribution and viability into the future
12:45	O2.6	I. Fraile	Effects of environmental factors on catch rates of yellowfin (<i>Thunnus albacares</i>) and skipjack (<i>Katsuwonus pelamis</i>) tunas in the western Indian Ocean
14:00	Keynote	Emanuele Di Lorenzo	Forecasting North Pacific climate and ecosystem changes: advances and challenges

Time	Allocation	Lead author	Title
Theme 4: Integrated modelling to project and explore future patterns - evaluation of model complexity vs generality, evidence of important processes to include in models, and evaluation of model results			
14:30	O4.1	K. Evans	Describing the movements of marine predators: common metrics and their appropriateness
14:45	O4.2	E. Galbraith	Simulating fishing effort: a key component of future fish projections
15:00	O4.3	T. Gorgues	Multi-model variability assessment of ocean biogeochemical climatic predictions
15:15	O4.4	C. Griffiths	Does body size accurately predict movement rates in fish? A meta-analysis of telemetry data
Theme 1: Early life history of pelagic species – winners and losers in the future ocean			
16:15	O1.1	A. Carlilse	Early life history habitat models of lamnid sharks: linking thermal physiology with habitat availability
16:30	O1.2	A. García	Early life trophic pathways of Atlantic bluefin tuna (<i>T. thynnus</i>) and its associated tuna species off the Balearic Sea (NW Mediterranean) by stable isotopes analysis
16:45	O1.3	R. Laiz-Carrion	Comparative trophodynamics of Atlantic bluefin tuna (<i>Thunnus thynnus</i>) larvae from the Gulf of Mexico and Mediterranean spawning areas
09:30	O1.4	M-A Lea	Finding winning strategies in a changing ocean
09:45	O1.5	J. Llopiz	Feeding dynamics and degree of cannibalism of Atlantic bluefin tuna larvae in the Gulf of Mexico

*presented by co-author

Time	Allocation	Lead author	Title
Tuesday 15 September			
09:00	Keynote	Molly Lutcavage	Large pelagics research in the U.S.: two steps forward, one step back, future unknown
Theme 6: Influence and role of biophysical processes and feedbacks on top predators			
09:30	O6.1	M. Abecassis	Characterizing a cetacean foraging hotspot off the west side of the Island of Hawai'i with tagging and oceanographic data
09:45	O6.2	M. Albo-Puigserver	Ecological energetics of pelagic fish of the Mediterranean Sea: interspecific and seasonal differences
10:00	O6.3	Y. Aoki	Change in energy acquisition of skipjack tuna (<i>Katsuwonus pelamis</i>) with northward migration in the western North Pacific
10:15	O6.4	S. Bestley	Prediction of krill swarm characteristics driving a marine predator 'hotspot' region in East Antarctica
10:30	O6.5	S. Bograd	On the present, past and future of upwelling ecosystems
10:45	O6.6	D. Briscoe	Adaptive plasticity in the face of a changing climate: North Pacific loggerhead sea turtle
Theme 3: Trophic pathways in open ocean ecosystems - changes in mid-trophic level community composition as a result of changes to physical, chemical and biological components of the marine environment			
11:30	O3.1	E. Bachiller	Spatial and trophic interactions of Northeast Atlantic mackerel, Norwegian spring-spawning herring and blue whiting during the major feeding season in the Norwegian Sea
11:45	O3.2	C. Choy	Monitoring mid-trophic micronekton community responses to long-term environmental change within the North Pacific
12:00	O3.3	L. du Buisson	Vertical distribution of mid-trophic level organisms in pelagic marine ecosystems: a dual acoustic and modelling approach
12:15	O3.4	N. Goñi	Albacore predation on mesopelagic fauna in the temperate Eastern Atlantic
12:30	O3.5	B. Hunt	Implications of physical-chemical controls of lower trophic levels on pelagic food web structure and productivity in a changing climate
12:45	O3.6	Y. Kato	Spatial pattern in stable isotope ($\delta^{13}C$ and $\delta^{15}N$) values of the jumbo flying squid, <i>Dosidicus gigas</i> , in the Southeastern Pacific Ocean
Theme 9: Data, analyses and tool development associated with understanding the impacts of climate variability on fisheries			
14:30	O9.1	J-N. Druon	Monitoring of pelagic habitats as a driver of tuna potential distribution and growth: an ecological niche model approach
14:45	O9.2	J-M. Fromentin	Combined effects of oceanographic changes and exploitation on the spatio-temporal dynamics of Atlantic bluefin tuna
15:00	O9.3	N. Goikoetxea	What does albacore look for in Northeast Atlantic waters? Let's ask ecological niche-models

Time	Allocation	Lead author	Title
15:15	O9.4	W. Ingram.	Separating observation uncertainty from individual variability in movement and migration: a step toward more accurate habitat prediction for large pelagic predators
Theme 8: Scenarios of large marine organisms and their fisheries in a changing world			
16:00	O8.1	E. Di Lorenzo	A filtering hypothesis to explain climate synchrony in fish populations
16:15	O8.2	E. Kim*	Potential influences of man-made Fish Aggregating Devices (FADs) to tropical Pacific fisheries under climate change
16:30	O8.3	P. Lehodey	Forecasting climate change impacts on tuna populations and fisheries
16:45	O8.4	J. Lopez	Environmental preferences of tuna and non-tuna species associated with drifting fish aggregating devices (DFADs) in the Atlantic Ocean, ascertained through fishers' echo-sounder buoys

*presented by co-author

Time	Allocation	Lead author	Title
Wednesday 16 September			
09:00	Keynote	Jock Young	Trophodynamics of marine top predators: advances and challenges
Theme 7: Biodiversity, conservation and adaptive management – future strategies for incorporating long term change			
09:30	O7.1	R. Alderman*	Testing a climate adaptation strategy for vulnerable seabirds based on prioritisation of intervention options
09:45	O7.2	M. Gasalla	Policy analysis and critical review on the status of top predators in marine ecosystems off Brazil in a changing ocean
10:00	O7.3	J. Hartog	Seasonal forecasting as a stepping stone to climate adaptation in marine fisheries and aquaculture
10:15	O7.4	E. Hazen	Managing for climate variability and change across multiple scales: a case study using blue whales in the Northeast Pacific
10:30	O7.5	F. Lucena Frédou	An ecological risk assessment for teleosts bycatch in longline fisheries
10:45	O7.6	S. Ortega-Garcia	Spatio-temporal modeling of three large pelagic species in the tropical eastern Pacific Ocean: a dynamic management proposal considering climate variability
Theme 2: Implications of potential distribution and abundance shifts in oceanic organisms for food security and species conservation			
11:30	O2.7	J. Lamkin	Climate change impacts on Atlantic bluefin tuna and alternative spawning sites in the western Atlantic
11:45	O2.8	K-W. Lan	The relationship between interannual variation of environmental variations and bigeye tuna (<i>Thunnus obesus</i>) catch rates in the Atlantic Ocean
12:00	O2.9	P. Michael	Climate change in the southern Indian Ocean: towards projecting impacts on tuna distribution, longline fleet-dynamics, and albatross bycatch
12:15	O2.10	M. Schirripa	A hypothesis of a recent redistribution of North Atlantic swordfish based on changing ocean conditions
12:30	O2.11	C. Silva	Forecasts of swordfish (<i>Xiphias gladius</i>) and common sardine (<i>Strangomera bentincki</i>) off Chile under the A2 IPCC climate change scenario

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Time	Allocation	Lead author	Title
Thursday 17 September			
09:00	Keynote	Lisa Ballance	Marine mammals and seabirds in a changing ocean
Theme 1: Early life history of pelagic species – winners and losers in the future ocean			
09:30	O1.6	H. Murua	Fast versus slow growing tuna species: age, growth, and implications for population dynamics and fisheries management
09:45	O1.7	P. Reglero	Comparison of pelagic habitat use between egg and larvae of Atlantic bluefin tuna and albacore in the NW Mediterranean
10:00	O1.8	M. Roffer	Backtracking Atlantic bluefin tuna larvae caught in the Bahamas 2013
10:15	O1.9	G. Shillinger	Impacts of El Niño on the early life history of eastern Pacific leatherback turtles
Theme 7: Biodiversity, conservation and adaptive management – future strategies for incorporating long term change			
10:30	O7.7	M. Pou	New rules and regulatory requirements to protect oceans in current changing scenarios. Arctic region focus.
10:45	O7.8	K. Weng	Home range and the scale of fishery closed areas: implications for climate-resilient reserve networks
Theme 9: Data, analyses and tool development associated with understanding the impacts of climate variability on fisheries			
11:30	O3.7	M. Kiyota	Northern fur seal diet information revealed long-term shifts of fish fauna in the western North Pacific
11:45	O3.8	F. Ménard	Trophic pathways in the Indian Ocean: lessons from 15 years of investigations
12:00	O3.9	R. Trebilco	Using size-based models to assess the importance of mesopelagics for Southern Ocean foodwebs: implications for predators under climate change
Theme 6: Influence and role of biophysical processes and feedbacks on top predators			
12:15	O6.7	S. Brodie	Modelling the oceanic habitats of pelagic fish using recreational fisheries data
12:30	O6.8	D. Costa	The role of physiological constraint in the foraging ecology and ability of sea lions to respond to climate change
12:45	O6.9	C. Cotté	Integrating predator tracking and resources data with the meso- and submesoscale dynamics of the open ocean
Theme 3: Trophic pathways in open ocean ecosystems - changes in mid-trophic level community composition as a result of changes to physical, chemical and biological components of the marine environment			
14:30	O9.5	A. Lorrain	Toward a three dimensional approach of top predators foraging habitat through mercury isotopes

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14:45	O9.6	T. Patterson	Separating observation uncertainty from individual variability in movement and migration: a step toward more accurate habitat prediction for large pelagic predators
15:00	O9.7	G. Puncher	Unlocking the evolutionary history of the mighty bluefin tuna, <i>Thunnus thynnus</i> , using novel paleogenetic techniques and ancient tuna remains
15:15	O9.8	J. Salinger	Critical time scale for forecasting environmental conditions and tuna habitats
Theme 4: Integrated modelling to project and explore future patterns - evaluation of model complexity vs generality, evidence of important processes to include in models, and evaluation of model results			
16:00	O4.5	J. Guiet	Modeling the role of environmental condition on the structure, metabolism and diversity of global oceanic fish communities
16:15	O4.6	O. Maury	Schooling determines tuna's growth patterns and regulates marine populations and ecosystems
16:30	O4.7	K. Scales	Identifying suitable foraging habitats for a wide-ranging marine predator using ensemble ecological niche models
16:45	O4.8	I. Senina	The recent advances in predicting tuna population dynamics with help of a spatial dynamic model and data
17:00	O4.9	Y. Tyutunov.	Minimal modeling framework to simulate pursuit-evasion behavior in a predator-prey system

Time	Allocation	Lead author	Title
Friday 18 September			
09:00	Keynote	Dale Squires	Policy instruments for reducing bycatch in pelagic fisheries
Theme 6: Influence and role of biophysical processes and feedbacks on top predators			
09:30	O6.10	F. Juanes	Trophic niche overlap among northerly expanding dolphinfish and co-occurring tunas in the western North Atlantic
09:45	O6.11	C. Lam	A curious case of dissolved oxygen and billfish: habitat utilization of striped marlin in the Pacific Ocean
10:00	O6.12	M. Louzao	The role of climate and food availability on driving decadal abundance patterns of highly migratory pelagic predators in the Bay of Biscay
10:15	O6.13	J. Polovina	A multi-decade decline in productivity and shift in phenology in the North Pacific Transition Zone, a key habitat for large pelagics in transition
10:30	O6.14	F. Sardenne	Spatio-temporal variability in the trophic niche of tropical tunas in Western Indian Ocean
10:45	O6.15	I. Zudaire	Variations in the diet and stable isotope ratios during the ovarian development of female yellowfin tuna (<i>Thunnus albacares</i>) in the western Indian Ocean.
Theme 8: Scenarios of large marine organisms and their fisheries in a changing world			
11:30	O8.5	M. Lutcavage	Reproduction in a changing world – a case study for western Atlantic bluefin tuna
11:45	O8.6	O. Maury	Building 21st century scenarios for global oceanic ecosystems and fisheries
12:00	O8.7	G. Moreno	Towards discrimination of tuna species at FADs: are FADs pertinent as scientific platforms?
12:15	O8.8	M. Silva	Satellite tracking and stable isotope analysis provide novel insights into the migratory behaviour of large baleen whales

Poster presentation listing

Allocation	Lead author	Title
P3.1	M. Albo-Puigserver	Assessing the trophic ecology and ecological role of small and medium pelagic fish in the Mediterranean Sea; insights from diet studies, isotopic data and food-web models
P3.2	S. Czudaj	Food-web structure of mesopelagic communities in high and low oxygen environments in the eastern tropical north Atlantic as identified by stable isotope analysis
P3.3	I. Palomera	The ECOTRANS Project: unraveling the trophic pathways and energy transfer from small pelagic fish to top predators in the Mediterranean Sea
P3.4	S. Yonezaki	Characteristics of the food web structure of large marine ecosystem in the northwestern Pacific Ocean
P6.1	A. Della Penna	Quasi-planktonic movements of top marine predators: how does horizontal advection affect animal movement?
P6.2	J-N. Druon	Overlap of Atlantic bluefin tuna e-tags and ecological habitat: lessons on behavior
P6.3	E. Estess	Comparative bioenergetics of captive Pacific bluefin (<i>Thunnus orientalis</i>) and yellowfin tuna (<i>Thunnus albacares</i>)
P6.4	Y. Kanaji	Spatial distribution of small cetacean species in relation to physical environments in the North Pacific Ocean
P6.5	S. Saber	Assessing <i>Thunnus alalunga</i> adult and larvae spatial distribution and relations with pelagic seascapes in the western Mediterranean Sea
P6.6	R. Sáez-Liante	Feeding ecology and ecological role of three large pelagic fish <i>Sarda sarda</i> , <i>Xiphias gladius</i> , and <i>Euthynnus alletteratus</i> in the Western Mediterranean Sea
P6.7	T. dos Santos Schmidt	Fluctuations in life history traits of sexually mature Norwegian spring-spawning herring (<i>Clupea harengus</i> L.) over the last two decades mediated by ocean temperature and density-dependent effects
P6.8	J. Scutt Phillips	Surface-association behaviour in tropical tuna and the effect of fish aggregation devices
P6.9	I. Zhulay	Coupled Laptev Sea-Lena Delta system: variation in zooplankton species distribution and its composition driven by climate change
P8.1	K. Holsman	Evidence for trophic amplification of climate change impacts on groundfish species productivity in the Bering Sea, AK

Allocation	Lead author	Title
P8.2	E. Yáñez	Forecast of swordfish catches off Chile under the A2 climate change scenario
P9.1	H. Pethybridge	Biochemical tracers and predictive models: understanding spatial and temporal variations in marine ecosystems
P9.2	T. Okuda	Delineating the boundary and structure of higher trophic level assemblages in the western North Pacific Ocean
P9.3	J. Salinger	Providing relevant science based tools for regional decision makers: progress of the CAgM/JCOMM Joint Task Team on Weather, Climate and Fisheries