



ICES Annual Science Conference 15–19 September 2014



Committee meetings
13–20 September 2014
PALEXCO Congress and Exhibition Centre
A Coruña, Spain



Cover photograph courtesy of PALEXCO Congress and Exhibition Centre

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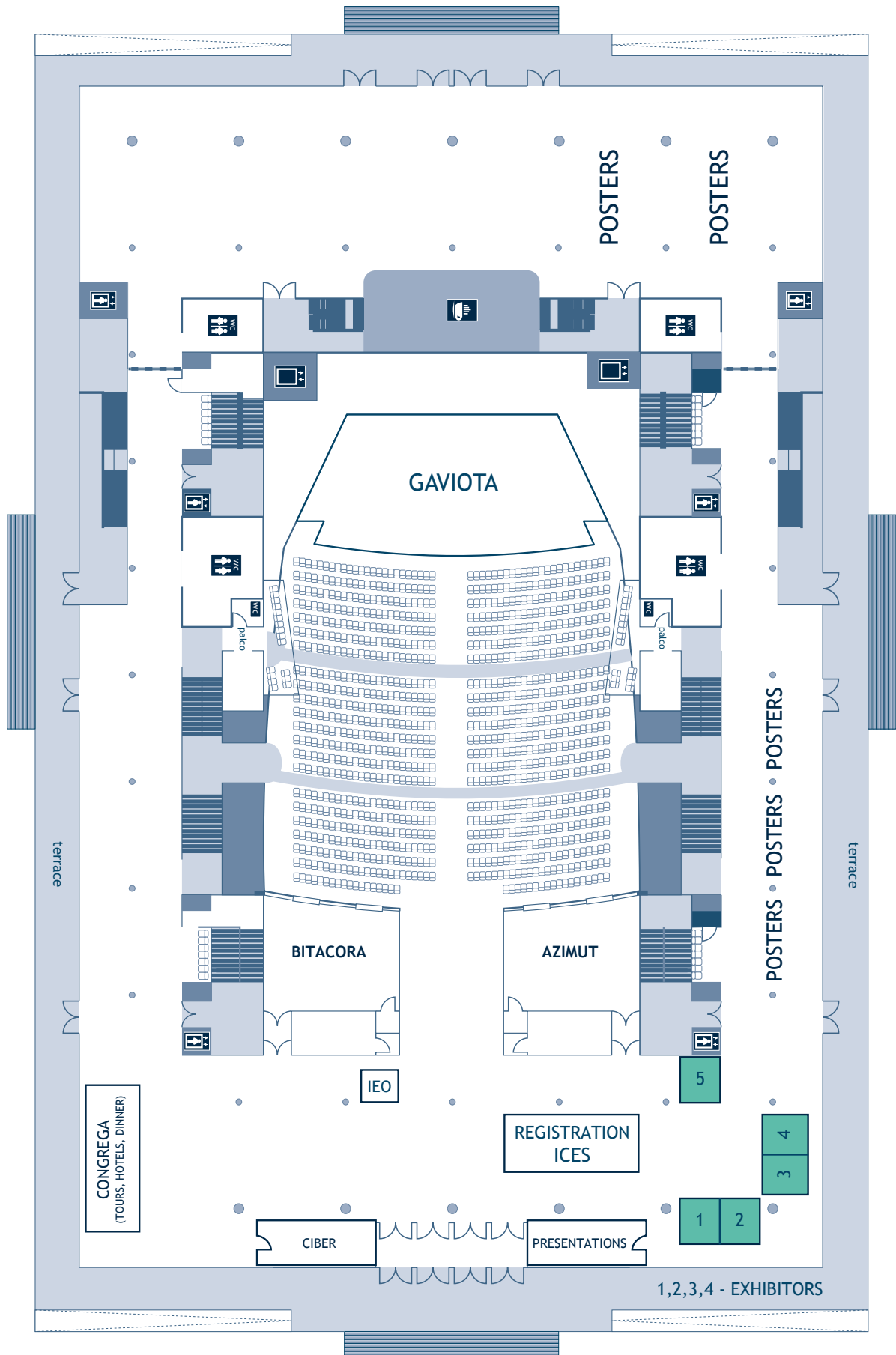
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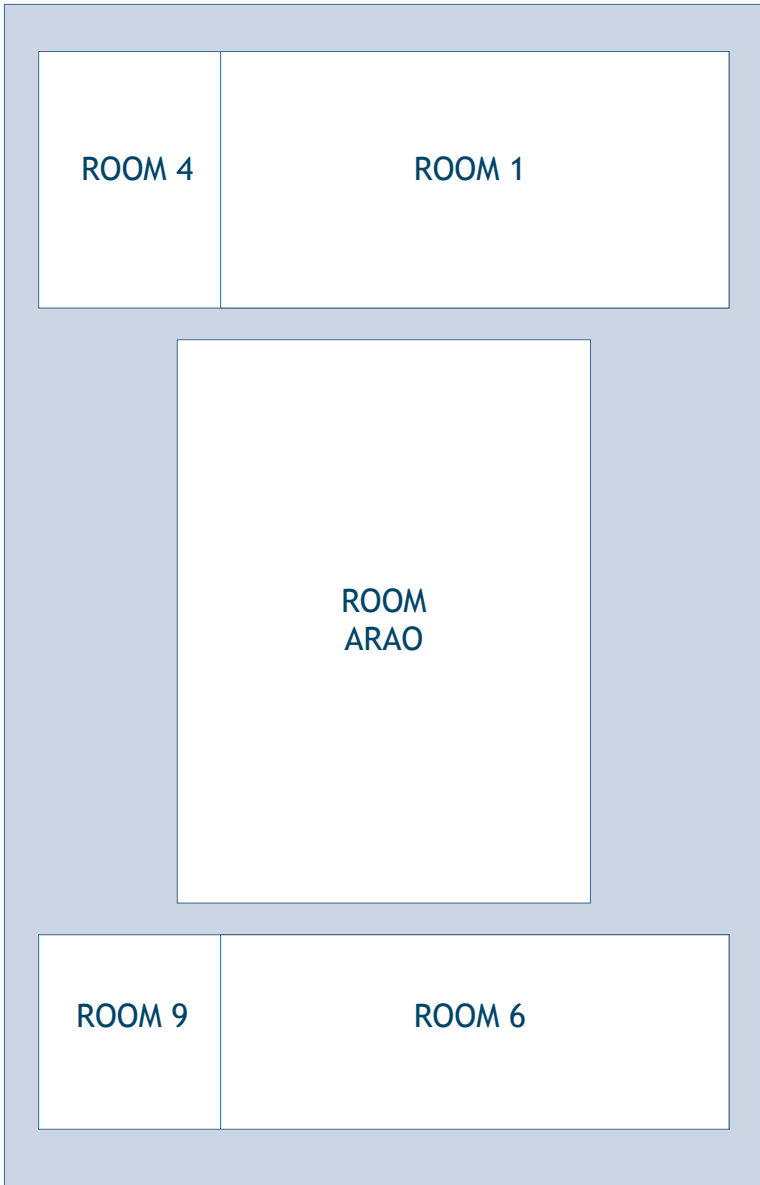
The list of participants will be available to registered participants before the Annual Science Conference. The content of this publication is correct as of August 2014. Please check at the venue for updates or changes to the schedule.

Overview of PALEXCO Congress and Exhibition Centre

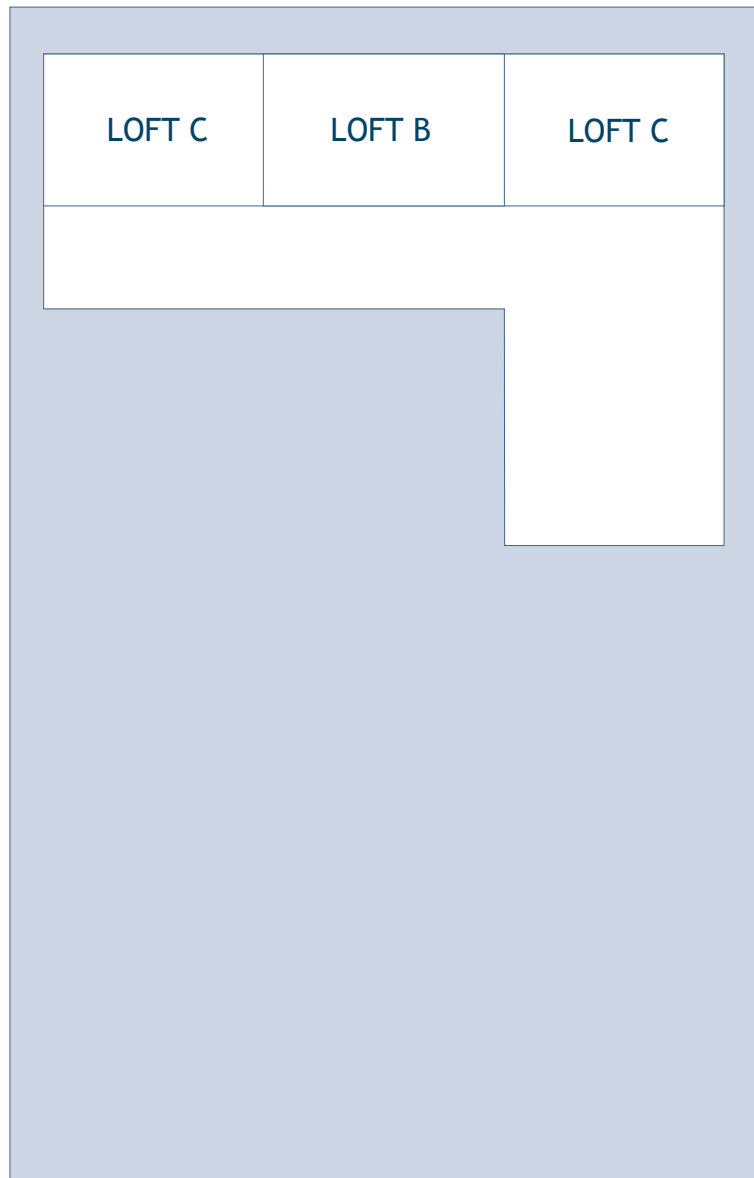
GROUND FLOOR



SECOND FLOOR



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Welcome from the President of ICES

“Es un placer” to welcome you all to this year’s gathering of the ICES family in the wonderful setting of A Coruña, Spain. Our Annual Science Conference offers the perfect opportunity for us to discuss, evolve, and coordinate the actions that are required to implement our new Strategic Plan. The ICES Strategic Plan (2014 – 2018) was adopted by Member Countries last October and was formally launched in March of this year at the Norwegian Mission in Brussels. Many high-level policy-makers, representatives from scientific institutes, and other organizations were present and the Strategy was well received. Its aims are well reflected in the scientific programme of this conference and will be the context for many discussions in business and planning meetings, and in networking with representatives from government laboratories, academia and policy-making.

The ICES Strategic Plan identifies *integrated ecosystem understanding* as the key challenge for ICES during the next five years. Therefore, work on integrated ecosystem observations, integrated ecosystem assessments, and the benchmarking process (translating science into the advisory process) become central to our work. The co-operation, coordination, and teamwork between the four pillars of ICES; science, advice, data and information, and the Secretariat are critical to the delivery of our Strategic Plan.

Two important areas for strategic development are identified in the Strategic Plan; namely aquaculture and the Arctic. It is important that we identify and establish a roadmap for the specific work to be carried out within these areas, building upon our expertise and experience and cooperating with relevant organizations.

The ICES Strategic Plan was developed and will operate in a changing science and policy landscape. It is therefore important that we work together as one organization and focus our efforts on areas where we can add value and establish strategic partnerships as necessary.

In July of this year, the Implementation Plan for the ICES Strategic Plan was released. This plan highlights the actions within and across science, advice, data and information and the Secretariat that will ensure we successfully reach the goals set out in the ICES Strategic Plan.

The ASC is a great forum to learn about the latest scientific developments and thinking on a wide range of marine issues and allows us to forge new contacts and to meet up with old comrades.

A Coruña provides the perfect setting. I know you will all engage actively in the conference and make it a success. Your work here will pave the way for the successful implementation of the ICES Strategic Plan.

Let me offer a warm thanks to our Spanish hosts for all their efforts in bringing us together and in making this a great event for ICES. Congratulations on the celebration of the centenary of the Instituto Español de Oceanografía, who has been a key and valued member of the ICES family for many years.



Paul Connolly
ICES President

Welcome from the delegates of Spain and ICES General Secretary

On behalf of the International Council for the Exploration of the Sea, the Spanish delegates, Carmela Porteiro and Eduardo Balguerías, are pleased and honoured to welcome you to A Coruña for the 2014 ICES Annual Science Conference.

This is a special year for the Instituto Español de Oceanografía as we are celebrating our centenary. Founded by the first Spanish ICES delegate, Professor Odón de Buen, our institute was created with the purpose of “studying the physical, chemical, and biological conditions of the seas around our territory and their applications to the problems of fisheries”.

Improved knowledge of the sea and the mechanisms by which it provides the services we, as a society, value, remains our objective one hundred years later. Ultimately, human well-being depends on our capacity to interact with our environment in a sustainable way without forgetting our responsibility to developing regions and future generations.

Human activities have global impacts and ecosystems are changing in response to these pressures, often in unpredictable ways. The ocean plays a crucial role in the world’s climate.

Improving our understanding of the processes involved in the functioning of the marine environment is perhaps more pressing now than it was one hundred years ago.

This brings us to the theme of this year’s ASC, “Sustainability in a changing ocean”. Within this main theme, there are sessions on the threats to sustainability posed by climate change and exploitation and their potential effects (reduction in body size, bioinvasions, harmful algal blooms, and increase in gelatinous zooplankton). There are also sessions devoted to the application of new techniques to old data to improve our historical knowledge, understanding how ecosystems provide the services we value and how their functioning may be affected by ongoing climate change and increasing human impacts, and sessions on the challenges of developing integrated ecosystem assessments.

With a coastline of almost 5000 km, the sea has a strong relationship with Spain – shaping our national identity as well as our history and economy. Fisheries and aquaculture are especially important in Galicia and you will see evidence of this in every corner of A Coruña, our crystal city. It is often thought that our city’s name originates from the presence of our Roman lighthouse,

the “Torre de Hércules” that, with 2000 years of history, is the oldest working lighthouse in the world and an UNESCO World Heritage Site. But in fact the name arises from the “galerías” in the fishermen’s houses that constitute the largest continuous glass window series in the world. We invite you to discover these and many other wonders as you enjoy the local cuisine and culture.

Don’t miss the opportunity to take a pilgrimage to Santiago de Compostela (less than one hour away); it is said the trip can earn your soul a reduced stay in purgatory!

We look forward to seeing you in A Coruña!



Eduardo Balguerías Guerra,
ICES Delegate of Spain



Carmela Porteiro,
ICES Delegate of Spain



Anne Christine Brusendorff,
ICES General Secretary

Introduction to ICES Annual Science Conference 2014

On behalf of ICES Science Committee (SCICOM), it is my great pleasure to welcome you to the beautiful city of A Coruña and to ICES Annual Science Conference (ASC) 2014.

The ASC gives us the opportunity to spread knowledge on the advancement of the scientific understanding of marine ecosystems. ASC 2014 promises an exciting programme with theme sessions carefully selected by SCICOM. Our choices reflect the launch of *ICES Strategic Plan 2014–2018* which commits ICES to building a foundation of science around one key objective; [integrated ecosystem understanding](#).

A busy week awaits! Choose from a total of seventeen theme sessions covering topics such as Integrated Ecosystem Assessments, bioarchives, genomics, the Arctic, stock assessments, ecosystem services, cephalopod fisheries, ocean circulation, jellyfish, MPAs, harmful algal blooms, and top predators. Not to mention a range of social events, which includes the opening reception, poster session, and conference dinner where you can catch up with friends and make new contacts.

We proudly present three outstanding keynote speakers. The opening lecture of the conference, [“Prospects and opportunities in a changing marine science and policy landscape”](#) is given by Luis Valdés, Head of Ocean Sciences, IOC–UNESCO. In addition, we have two plenary lectures; Phillip Levin, Northwest Fisheries Science Center, USA will discuss “Integrated science for integrated management: fairy tale or finally here?” while Ana Parma, Centro Nacional Patagónico, Argentina speaks about “Challenges and achievements in rebuilding fisheries: uncertainty, prescriptions, and scientific advice”.

The best way to start your conference is to attend the [SCICOM Open Sessions](#). These special events begin with the SCICOM Open Plenary on Monday morning followed by a number of stimulating and exciting Steering Groups’ topical sessions, which are open to all conference participants. Whether this is your first ASC or you are a regular participant, attending these sessions will offer you new inspiration for your science. They will give you a wider understanding of how both ICES and SCICOM work, inform you of the science highlights over the past year, and, most importantly, explain how you can become involved with a network that is full of great opportunities for marine science and scientists. Come along, engage in the future visions of ICES science, meet inspiring people, and network!

ICES ASC is an annual highlight for scientists, policy-makers, managers, and students wishing to learn about and influence marine science in the North Atlantic. We are sure you will enjoy the opportunity to meet your peers and take part in our expansive scientific programme.

Follow ICES @ices_ASC or @yvowal on Twitter to stay up to date on everything ASC – the important stuff and the fun stuff.

See you in A Coruña!



Yvonne Walther
Chair, ICES Science Committee
Yvonne.walther@ices.dk

Monday 15 September 12:30 – Gaviota Hall
Open Lecture “Prospects and opportunities in a changing marine science and policy landscape”
Dr Luis Valdés, Head of Ocean Sciences, IOC–UNESCO

Abstract

Strategic priorities in ocean sciences are far from stagnant. Whereas more scientific research is needed to improve our knowledge and understanding of a changing ocean, there is an increasing call for more social engagement with science responding more effectively to societal needs and involving different stakeholders that are important in the decision-making process and governance. The lecture will focus on three aspects: (i) prospects on marine sciences; (ii) opportunities to deepen into the science–policy interface; and (iii) analysis of the policy landscape and governance.

The drivers for ocean scientific research are connected to the sustainable use of the oceans and to the understanding, mitigation, and adaptation to climate change. In that sense, the main ocean-related scientific problems of our time are interdisciplinary, involving natural and social sciences, and they need to be addressed on a global scale through extensive international cooperation. To this end, both Future Earth (ICSU) and the UN Sustainable Development Goals are providing the ground to establish some new large international research programmes following the legacy of other past successful initiatives.

To influence and shape action, we must strengthen the interface between policy and science. The ability to make our science understandable to those who make decisions about our future is critical. Several international instruments and science–policy interfaces have been agreed, such as the EU Marine Strategy Framework Directive (MSFD), the UN World Ocean Assessment (WOA), the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES), and the Intergovernmental Panel on Climate Change (IPCC). These science–policy processes must ensure that updated and accurate science is appropriately reflected in high-level policy discussions (e.g. OSPAR, Conferences of the Parties of the CBD and UNFCCC, etc.).

We also must prepare ourselves to use the policy landscape for our own benefit as a vehicle to reinforce and add value to marine scientific research and to facilitate the transfer of knowledge and technology to third parties (this is a key to ensure cohesion in marine science and development). The active involvement of end-users of scientific information, including resource managers, policy-makers, and individual citizens, will enhance the impact and value of our research initiatives. For that, we need to understand, maintain and extend our relationships to relevant UN Agencies, International Councils, global programmes, NGOs, and participate in alliances and international agreements related for instance to ocean governance for a safer, more equitable, cleaner, and prosperous ocean for all.

Biography



Dr Luis Valdés Santurio (Spain) has been the Head of Ocean Sciences at the Intergovernmental Oceanographic Commission of UNESCO since January 2009, and before that (2000–2008) he was the Director of the Centro Oceanográfico de Gijón – Instituto Español de Oceanografía (CO Gijón–IEO). With more than 30 years of experience in marine research and field studies related with marine ecology and climate change, he established a time-series programme in 1990 based on ocean sampling sites and marine observatories which is maintained by Spain in the North Atlantic (www.seriestemporales-ieo.com). He has advised various governmental, intergovernmental, and international organizations as well as research funding agencies. He has a vast experience in ICES where he chaired different Working Groups and Committees, including the Oceanographic Committee. He also served as Spanish Delegate in ICES and in the IOC–UNESCO.

Tuesday 16 September 09:00–10:00 – Gaviota Hall
Plenary Lecture “Challenges and achievements in rebuilding fisheries: uncertainty, prescriptions and scientific advice”
Dr Ana Parma, Centro Nacional Patagónico, Argentina

Abstract

Global evaluations of fish stock status indicate that a more positive outlook for fisheries is beginning to emerge in many regions in response to new, stronger mandates to curbing overfishing and to rebuild depleted stocks. Legal frameworks have become increasingly prescriptive, requiring implementation of rebuilding plans and specifying clear benchmarks for tracking progress. Effective reductions in fishing pressure have been achieved in response to stringent management regulations, leading in many cases to a reversal of declining trends in stock size. While successful on many accounts, however, prescriptive frameworks have forced reliance on specific management approaches, often inadequate for specific fisheries, restricting the range of acceptable options and discouraging innovation. In the US, for example, a legal management framework built around the concept of maximum sustainable yield (MSY) mandates rebuilding to the MSY level within a predefined time frame once a stock has been classified as overfished. Such policy dependency on uncertain determinations of stock status relative to thresholds and targets often causes abrupt changes in management, exacerbating the impact of the inherent variability of stock assessments.

While these problems manifest themselves even in fisheries that can be classified as “data-rich”, the limitations of prescriptive frameworks are much more severe in data-poor situations. Major technical challenges still remain for rebuilding many world fisheries for which quantitative assessments are not available. For those fisheries, prescriptive management frameworks based on MSY exacerbate the consequences of data deficiencies and distract resources away from due consideration of alternative innovative approaches. Empirical decision rules for adjusting regulations (input or output controls), based on simple indicators of resource status and trends, may prove adequate to support “direction-oriented” strategies aimed at improving resource status. Although progress in evaluating performance of such rules is underway and useful guidelines are emerging, data limitations often go hand in hand with other structural features that hamper centralized management capabilities. In those cases, the most pressing challenges are not in resource assessment but in broader issues of fisheries governance.

Biography



Ana Parma is an expert in fisheries modeling, assessment, and management. Her interests focus on fisheries from different angles, ranging from stock assessment and the design of harvest control rules, to the institutional aspects of decision-making and fisheries governance. She earned a PhD in Fisheries at the University of Washington in 1989 and worked for 10 years at the International Pacific Halibut Commission, while she became involved in the assessment of several data-rich, industrial fisheries. In 2000 she returned to Argentina, her home country, to become a research scientist with Argentina’s National Scientific and Technical Research Council, working at a coastal research centre in Patagonia. With this move, the focus of her work broadened to include coastal reef and shellfish fisheries. Over recent years she has been involved with the

analysis of spatially explicit management approaches, and the evaluation of formal and informal rules to regulate fishing access privileges in small-scale fisheries. Ana has participated in many scientific and policy advisory groups in different countries and international organizations. In particular, she coordinated the design of the stock rebuilding strategy recently adopted by the Commission for the Conservation of Southern Bluefin Tuna, and co-chaired a committee that evaluated the effectiveness of fish stock rebuilding plans in the United States.

Thursday 18 September 09:00–10:00 – Arao Hall
Plenary Lecture “Integrated science for integrated
management: fairy tale or finally here?”
Dr Phillip Levin, Northwest Fisheries
Science Center, USA

Abstract

Ecosystem-based management (EBM) is not a new idea, nor, I will argue, is it absolutely necessary for sustainable fisheries. However, fishing, even sustainably, has clear ecosystem and conservation consequences, and it is within this realm of multiple objectives and management mandates that EBM is critical. But, how do we actually do EBM? Now that resource managers and policy-makers are embracing (or at least accepting) EBM in concept, there is somewhat limited practical advice on how to implement the tenets of EBM. Despite a reasonable understanding of many of the social and biogeophysical components of marine ecosystems, we lack a framework or process for using science to inform decision-making about multiple interacting management objectives. In this talk I will outline an approach to inform resource management decisions. Central to this framework is developing an understanding of both the bio-physical and the social aspects of ecosystems. This coupled approach allows us to make incremental progress towards EBM given current management, policy, and legal constraints.

Biography



Phillip Levin is a Senior Scientist and leads the Ecosystem Science Program and the Nearshore Ecology Team at NOAA Fisheries' Northwest Fisheries Science Center in Seattle, WA, USA. Dr Levin is a community ecologist and conservation biologist who is interested in bridging the gaps between theory and practice in conservation biology and fisheries science, and developing modeling and statistical approaches to inform ecosystem-based management of marine systems. The main focus of his current work is on developing scientific tools to inform Integrated Ecosystem Assessments and Coastal and

Marine Spatial Planning in the United States (and beyond). Levin is the scientific lead of NOAA's Integrated Ecosystem Assessment efforts in the California Current Large Marine Ecosystem and Puget Sound. In the course of this work, he has led the development of new analytical tools for characterizing ecosystem health and forecasting the cumulative effects of fisheries management and coastal zone management and climate change on living marine resources. Dr Levin received the Department of Commerce Silver Award and NOAA's Bronze Medal for his work on marine ecosystems, and the Seattle Aquarium's Conservation Research Award for his work in Puget Sound. He has published over 120 scientific papers in peer-reviewed journals, book chapters and technical reports, and his work has been featured in such news outlets as NPR, the BBC, MSNBC, The Economist, among others. Levin is the Senior Editor of the scientific journal, Conservation Letters, recently served as President of the Western Society of Naturalists, and has served on numerous editorial boards and scientific advisory panels. Before joining the National Marine Fisheries Service in 1999, Dr Levin was an Assistant Professor of Marine Biology at Texas A&M University. He received his Ph.D. in zoology from the University of New Hampshire in 1993 and was a postdoctoral fellow at the University of North Carolina.

Annual Science
Conference programme

Monday 15 September 2014

	Hall	Gaviota	Arao
09:00–10:00	Posters		SCICOM Open Strategic science Shaping the ICES together
10:00–10:30			
10:30–12:00	Posters	SCICOM open sessions ↳	Integrate and Ecosystem Modular
12:00–12:30			
12:30–14:30	Posters	General Assembly and Open lecture on “Prospects and opportunities in a changing marine science and policy landscape” by Dr Luis Valdés	
14:30–16:30			
16:30–19:00	Posters	O Landings obligation as a pathway towards the integration of CFP and MSFD – lessons learned and forward look after 2015	R Analytical assessment using telemonitoring to assess marine Diadromous migratory fish
19:30–21:00	Welcome of Implementation		

Tuesday 16 September 2014

	Hall	Gaviota	Arao
09:00–10:00	Posters	Plenary lecture on “Challenges and achievements in rebuilding fisheries: uncertainty, prescriptions and scientific advice” by Dr Ana Parma	
10:00–10:30			
10:30–13:00	Posters	G Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments	O Landings obligation as a pathway towards the integration of CFP and MSFD – lessons learned and forward look after 2015
13:00–15:00			
15:00–16:30	Posters	G Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments	O Landings obligation as a pathway towards the integration of CFP and MSFD – lessons learned and forward look after 2015
16:30–17:00			
17:00–17:30	Posters	G Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments	O Landings obligation as a pathway towards the integration of CFP and MSFD – lessons learned and forward look after 2015
17:30–18:00			E Stocks in fluctuating environmental pressures via genetic adaptation to impacts on ecosystem services
18:00–19:30			
19:30–21:30			

	Modular Room 1	Modular Room 6
Plenary Scientists: Future path of r		
Coffee break		
Assessments System Surveys Room 3	Steering Group on Ecosystem Processes and Dynamics / Strategic Initiative on Biodiversity Advice and Science Modular Room 8	Open Session on Ecosystem Pressures and Impacts Modular Room 1 + 2
Coffee break		
Lunch break		
Approaches to ometry data to ne survival of s and other ish species	B The science and tools for the management of networks of Marine Protected Areas	M Ecological consequences of reduced body size of organisms in the future ocean
reception at PALEXCO and launch <i>Implementing the ICES Strategic Plan</i>		

	Modular Room 1	Modular Room 6
Coffee break		
obligation as towards the of CFP and MSFD arned and forward 015	B The science and tools for the management of networks of Marine Protected Areas	M Ecological consequences of reduced body size of organisms in the future ocean
Lunch break		
obligation as towards the of CFP and MSFD arned and forward 015	B The science and tools for the management of networks of Marine Protected Areas	M Ecological consequences of reduced body size of organisms in the future ocean
Coffee break		
obligation as towards the of CFP and MSFD arned and forward 015	B The science and tools for the management of networks of Marine Protected Areas	F Arctic biodiversity under climate change and other stressors
ix: From selection ia phenotypic and ptive responses on ecosystem	I The increasing importance of biofouling for marine invasions: an ecosystem altering mechanism	
Poster Session		

Annual Science
Conference programme

Wednesday 17 September 2014

	Hall	Gaviota	Arao
09:00–10:00	Posters	G Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments	E Stocks in flu pressures v genetic ada to impacts services
10:00–10:30			
10:30–13:00	Posters	G Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments	E Stocks in flu pressures v genetic ada to impacts services
13:00–15:00			
15:00–16:30	Posters	SCICOM open sessions ↳	Benchmark (BSG) Open ways forward ecosystem and advice
16:30–17:00			
17:00–19:00	Posters	SCICOM open sessions ↳	Facing the E Open Session operational publishing
19:00			

Thursday 18 September 2014

	Hall	Gaviota	Arao
09:00–10:00	Posters		Plenary lect science for management finally here! by Dr Phillip
10:00–10:30			
10:30–13:00	Posters	G Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments	C One size do what does ecosystem do to YOU?
13:00–15:00			
15:00–16:30	Posters	G Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments	C One size do what does ecosystem do to YOU?"
16:30–17:00			
17:00–17:30	Posters	G Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments	K The applica ecosystem-ment of aqu
17:30–19:00		P Operational solutions for cephalopod fisheries and culture	
20:00–23:00	Confere		

	Modular Room 1	Modular Room 6
ux: From selection ia phenotypic and ptive responses on ecosystem	A Gelatinous zooplankton on a global perspective: interactions with fisheries and consequences for socio- economics	Q Physical and biological consequences of North Atlantic circulation patterns
Coffee break		
ux: From selection ia phenotypic and ptive responses on ecosystem	A Gelatinous zooplankton on a global perspective: interactions with fisheries and consequences for socio- economics	Q Physical and biological consequences of North Atlantic circulation patterns
Lunch break		
Steering Group Session: Finding rd for integrated understanding	Strategic Initiative for Stock Assessment Methods (SISAM) Open Session: Advancement of stock assessment methods to support sustainable fisheries	
Coffee break		
Data Armada: An on on big data, products, and		ICES/PICES Strategic Initiative on Climate Change (SICCME) Open Session: Key findings of the 5th Report of the IPCC; SICCME plans for 2015–2016
Tour of A Coruña		

	Modular Room 1	Modular Room 6
ture on “Integrated integrated nt: fairy tale or ?” o Levin		
Coffee break		
es not fit all – an integrated assessment mean	A Gelatinous zooplankton on a global perspective: interactions with fisheries and consequences for socio- economics	L Pelagic ecosystem dynamics from integrated monitoring surveys
Lunch break		
es not fit all – an integrated assessment mean	H Harmful algal blooms in aquaculture and fisheries ecosystems: prediction and societal effects	L Pelagic ecosystem dynamics from integrated monitoring surveys
Coffee break		
tion of science for based manage- aquaculture	H Harmful algal blooms in aquaculture and fisheries ecosystems: prediction and societal effects	L Pelagic ecosystem dynamics from integrated monitoring surveys
		N Resilience and marine ecosystem services
nce dinner at “Pazo de Vilaboa”		

Annual Science
Conference programme

Friday 19 September 2014

	Hall	Gaviota	Arao
09:00–10:30	Posters	P Operational solutions for cephalopod fisheries and culture	J Climate cha future for m
10:30–11:00			
11:00–13:00	Posters	P Operational solutions for cephalopod fisheries and culture	J Climate cha future for m
13:00–15:00			
15:00–17:00	Posters	P Operational solutions for cephalopod fisheries and culture	J Climate cha future for m
17:00–17:15			
17:15			

	Modular Room 1	Modular Room 6
Topic: Back to the marine predators	H Harmful algal blooms in aquaculture and fisheries ecosystems: prediction and societal effects	N Resilience and marine ecosystem services
Coffee break		
Topic: Back to the marine predators	H Harmful algal blooms in aquaculture and fisheries ecosystems: prediction and societal effects	N Resilience and marine ecosystem services
Lunch break		
Topic: Back to the marine predators	H Harmful algal blooms in aquaculture and fisheries ecosystems: prediction and societal effects	N Resilience and marine ecosystem services
Short break		
Closing session in Aroa		



Council Officers

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 Mark Tasker, UK (2015)

Science Committee (SCICOM)

Yvonne Walther, Sweden (2016)

Steering groups

SCICOM Steering Group on Ecosystem Processes and Drivers (SSGEPD) • Graham Pierce, UK (2015)
 SCICOM Steering Group on Ecosystem Pressures and Impacts (SSGEPI) • Daniel Duplisea, Canada (2014)
 SCICOM/ACOM Steering Group on Integrated Ecosystem Assessments (SSG) • David Reid, Ireland (2015)
 SCICOM/ACOM Steering Group on Integrated Ecosystem Observation and Monitoring (SSGIEOM) • Nils Olav Handegard, Norway (2015) and Mike Armstrong, UK (2016)
 SCICOM/ACOM Benchmark Steering Group (BSG) • Carmela Porteiro, Spain (2016) and Jörn Schmidt, Germany (2016)

Strategic Initiatives

Strategic Initiative on Biodiversity Science and Advice (SIBAS) • Henn Ojaveer, Estonia (2014) and Mark Tasker, UK (2016)
 ICES–PICES Strategic Initiative on Climate Change Impacts on Marine Ecosystems (SICCME) • Brian R. MacKenzie, Denmark (2014), Manuel Barange, UK (2014), Anne B. Hollowed, USA, and Suam Kim, Republic of Korea
 Strategic Initiative on Stock Assessment Methods (SISAM) • Steven Cadrin, USA (2014) and Ciaran Kelly, Ireland (2016)

Operational groups

Data and Information Group (DIG) • Ingeborg de Boois, the Netherlands (2016)
 Publications and Communications Group (PUBCOM) • Myron Peck, Germany (2015)
 Training Group (TRAINING) • Steven Cadrin, USA (2014)
 (Year) for election/appointment of new officer/chair.

Notes for Guidance

Registration and conference services

The ICES registration desk is on the ground floor, in front of the main entrance to PALEXCO. Any changes to the schedule will be posted by the desk.

Presentations

Please note that you must hand in your PowerPoint presentation to the ICES presentations desk (located on the 1st level next to the registration desk) no later than 16:00 on the day before your talk, and preferably sooner (in your own interest). We will load it onto the conference server and check that it works properly in that environment. In case of technical problems with your presentation, we will contact you by e-mail. Theme session conveners have been instructed not to accept presentations that have not followed this procedure. In order to allow the sessions to run smoothly and in fairness to other speakers, please note that all presentations are expected to adhere strictly to the time allocated. The starting time for your presentation appears in the Agendas and Orders of the Day.

Posters

Posters will be displayed in the right-hand wing of the PALEXCO on the ground floor. The poster boards will be ready for use by Sunday afternoon. Please contact poster staff located in the poster area to record receipt of your submission and for assistance with mounting the poster to the poster board. The posters will remain on display throughout the conference week. A special poster session will be held on Tuesday 16th September, between 19:30 and 21:30, with an informal get-together. All contributors of posters are requested to be present at this session to discuss their presentations and to answer any questions.

ICES CM Documents USB stick

This year all registered participants will receive a USB stick containing most of the ICES Conference and Meeting (CM) documents relating to ICES Annual Science Conference 2014 and ICES business meetings. It includes reports of ICES committees and expert groups as well as scientific papers and posters presented at the ASC.

The updated contents of this year's USB will also be available online at

<http://www.ices.dk/publications/our-publications/Pages/CM-documents.aspx>

Refreshments and lunches

Complimentary refreshments will be served during morning and afternoon breaks at the coffee stations located throughout the building. Lunch is not included in the conference, thus participants are encouraged to enjoy lunches in the very cosy surrounding area.

Smoking

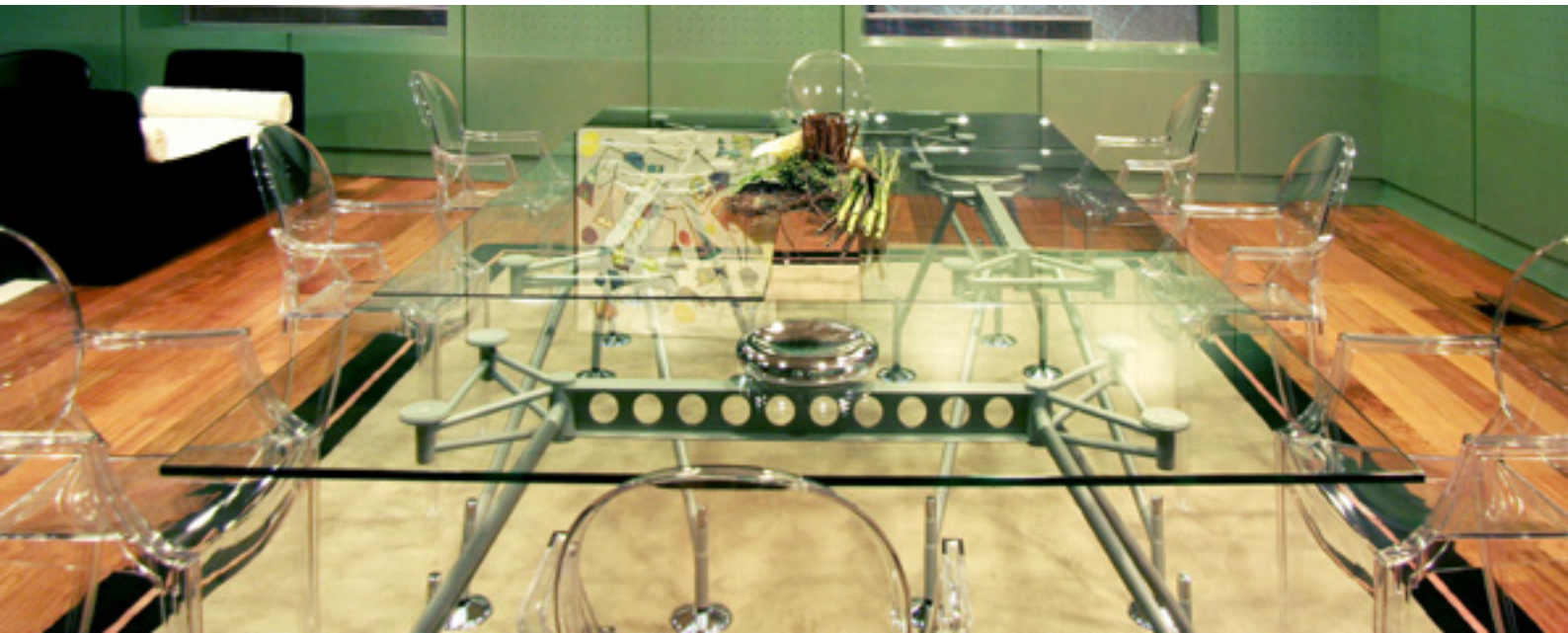
Smoking is not allowed inside the venue.

Social events and tours

Please see the [ASC website](#) for detailed programmes and where to sign up for tours.

Data Centre

The Data Centre presentation desk is located next to the registration desk.



SCICOM Open Sessions

Shape the future path of ICES science

ICES Science Committee (SCICOM) invites you to the SCICOM Open Sessions. Attending these open sessions will give you a wider understanding of how both ICES and SCICOM work, inform you about the science highlights of the past year, and, most importantly, show you how to take part in a network full of great opportunities for marine science and scientists.

ICES Strategic Initiatives and Steering Groups coordinate the work of ICES science expert groups. SCICOM Open Sessions represent an opportunity for these structures, together with ICES ASC participants, to review their activities, strategize their science, develop synergies, and address common challenges. These sessions often result in new proposals for working groups, workshops, or theme sessions for forthcoming ASCs.

All ASC attendees are welcome and encouraged to attend.

Monday, 15 September 2014

SCICOM Open Plenary: Strategic Scientists: Shaping the future path of ICES together Palexco Congress and Exhibition Centre, Arao Hall	9:00–10:00
Joint Open Session: Integrated Assessments and Ecosystem Surveys (SSGIEA/SSGIEOM) Palexco Congress and Exhibition Centre, Modular Room 3	10:30–12:00
Joint Open Session: Steering Group on Ecosystem Processes and Dynamics / Strategic Initiative on Biodiversity Advice and Science (SSGEPD/SIBAS) Palexco Congress and Exhibition Centre, Modular Room 8	10:30–12:00
Open Session on Ecosystem Pressures and Impacts (SSGEPI) Palexco Congress and Exhibition Centre, Modular Rooms 1+2	10:30–12:00

Wednesday, 17 September 2014

Strategic Initiative for Stock Assessment Methods (SISAM) Open Session: Advancement of stock assessment methods to support sustainable fisheries Palexco Congress and Exhibition Centre, Modular Room 1	15:00–16:30
Benchmark Steering Group (BSG) Open Session: Finding ways forward for integrated ecosystem understanding and advice Palexco Congress and Exhibition Centre, Arao Hall	15:00–16:30
Facing the Data Armada: An Open Session on big data, operational products, and publishing Palexco Congress and Exhibition Centre, Arao Hall	17:00–19:00
ICES/PICES Strategic Initiative on Climate Change (SICCME) Open Session: Key findings of the 5th Report of the IPCC; SICCME Plans for 2015–2016 Palexco Congress and Exhibition Centre, Modular Room 6	17:00–19:00

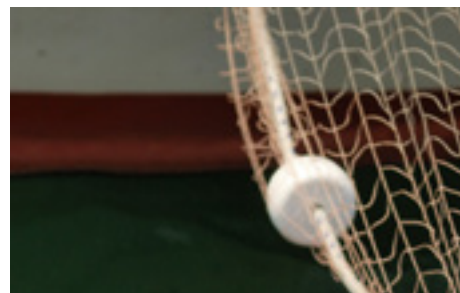
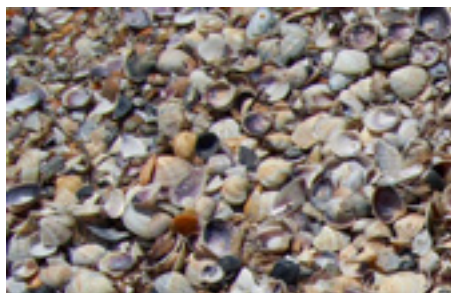


SCICOM Open Plenary: Strategic Scientists - Shaping the future path of ICES together

SCICOM Chair: Yvonne Walther (Sweden, ICES)
Palexco Congress and Exhibition Centre, Arao Hall
Monday, 15 September 2014, 9:00–10:00

The first part of the SCICOM Open Sessions is the SCICOM Open Plenary. This session includes presentations by the SCICOM Chair, Yvonne Walther, and the Steering Group Chairs. They will inform you about the recently launched *ICES Strategic Plan 2014–2018* and the associated *Implementing the ICES Strategic Plan 2014–2018: Linking Science, Advice, Data and Information, and the Secretariat*. As the world's oldest and largest marine science organization, ICES takes the lead on issues that are of great importance to the marine environment and how to implement them in society. ICES current strategy includes the development of integrated ecosystem understanding to support ecosystem-based management (EBM) and advice.

The SCICOM Open Plenary will give you an overview and help you choose between the following parallel sessions given by the Steering Groups and Strategic Initiatives. These sessions will go deeper into specific topics. The discussions are usually lively and interactive and we hope you will join us and make it even more interesting.



Joint Session: Integrated assessments and ecosystem surveys (SSGIEA/SSGIEOM)

Chairs: David Reid (Ireland) and Nils Olav Handegard (Norway)
Palexco Congress and Exhibition Centre, Modular Room 3
Monday, 15 September 2014, 10:30–12:00

This session will be a joint exploratory session of the Science Steering Groups on Integrated Ecosystem Observation and Monitoring (SSGIEOM) and Integrated Ecosystem Assessment (SSGIEA). It will focus on both the needs of those doing IEA in the monitoring community, and the information that the monitoring community needs to deliver for the best cost-effective combination of information from ICES monitoring. The aim will be to move past the spiral of “What do you want? – Well, what can you deliver?” questions. The aim will be to facilitate the interaction between survey methods expert groups in SSGIEOM and integrated ecosystem assessment expert groups in SSGIEA. The different expert groups will be asked prior to the meeting what they see as the main issues in the interface between the two groups. These will be summarized and raised for discussion by the Steering Group chairs. Where appropriate new initiatives for expert groups and workshops in 2015 will be proposed, including new areas for integrated ecosystem assessments and how to develop our survey programme accordingly.

Agenda

1. Opening, introduction to work of SSGIEA and SSGIEOM	10:30
2. Adoption of the agenda, nomination of rapporteurs	
3. Presentation of the key issues at the SSGIEOM/SSGIEA interface (Nils Olav Handegard/Dave Reid)	10:40
4. Open discussion session on the key issues	10:50
5. Summing up and action points	11:45
Closing	12:00



Joint Session: Steering Group on Ecosystem Processes and Dynamics / Strategic Initiative on Biodiversity Advice and Science (SSGEPD/SIBAS)

Chairs: Graham Pierce (UK) and Henn Ojaveer (Estonia)
Palexco Congress and Exhibition Centre, Modular Room 8
Monday, 15 September 2014, 10:30–12:00

ICES Steering Group on Ecosystem Processes and Dynamics (previously SCICOM Steering Group on Ecosystem Function) provides a forum for ICES expert groups which work primarily to improve our understanding of the structure and function of marine ecosystems in the North Atlantic. Biodiversity science is a key component, with much work now focused on the implementation of the EU Marine Strategy Framework Directive (MSFD), which sets out a roadmap to achieve good environment status in European seas by 2020.

ICES Strategic Initiative on Biodiversity Advice and Science was established to ensure that ICES work remains current and correctly focused in a changing policy environment.

The three main topic areas of SIBAS are:

- define and further develop measures of biodiversity;
- quantification and spatio-temporal mapping of pressures acting on biodiversity; and
- identify activity-pressure-state links and consider those in relation to management.

The Open Session at ICES ASC will communicate the most recent advances in biodiversity-relevant indicators in relation to the EU Marine Strategy Framework Directive (identified as a high-priority area in ICES). The session will also, through active discussion with the audience, obtain feedback on achievements in order to shape future activities.

Agenda

1. Steering Group on Ecosystem Processes and Dynamics and Strategic Initiative on Biodiversity Advice and Science – introduction, Graham Pierce	10:30
2. Monitoring the changing status of North Sea fish communities: at what point is Good Environmental Status achieved? (Simon Greenstreet)	10:35
3. MSFD and benthic indicators: from indicator compatibility and complementarity to efficient monitoring programmes (Steven Degraer)	10:45
4. Non-indigenous species in the MSFD: requirements and reality In data availability, indicator development and impact assessment (Henn Ojaveer)	10:55
5. Questions of scale, challenges raised by regional assessments of GES for biodiversity (Mark Dickey-Collas)	11:05
6. Current ICES advice in relation to biodiversity issues (Mark Tasker)	11:10
7. The contribution of molecular taxonomy to biodiversity science (Ann Bucklin)	11:20
8. Open discussion moderated by Graham Pierce and Henn Ojaveer	11:30
Closing	12:00

Open Session on Ecosystem Pressures and Impacts (SSGEPI)

Chair: Daniel Duplisea, Canada
Palexco Congress and Exhibition Centre, Modular Rooms 1+2
Monday, 15 September 2015, 10:30–12:00

This will be a more classic reporting session at the ASC than what has occurred in recent years. Working groups are expected to have a representative at this meeting (group chair or another familiar with their group's work). Daniel Duplisea will summarize and present feedback reports (completed by each group before the ASC) and search for common themes with an eye towards developing integrated ecosystem understanding as the centre-piece of the Science Plan. Discussion will follow amongst participants, including working group representatives and anyone who wishes to attend this meeting.

Agenda

1. Brief description of Science Plan and goal of meeting, Daniel Duplisea, SSGEPI Chair	10:30
2. Roundtable introductions	10:40
3. Presentation of working group feedback from online tool or form	10:45
4. Open discussion	11:30
Closing	12:00



Strategic Initiative for Stock Assessment Methods (SISAM) Open Session: Advancement of stock assessment methods to support sustainable fisheries

Chair: Steve Cadrin, USA
Palexco Congress and Exhibition Centre, Modular Room 1
Wednesday, 17 September 2013, 15:00–16:30

The ICES Strategic Initiative for Stock Assessment Methods (SISAM) was designed to assure that scientists can apply the best stock assessment methods when developing management advice for fisheries. The first stage of SISAM culminated in a simulation-based workshop to evaluate performance of stock assessment methods and the World Conference on Stock Assessment Methods (WCSAM, 17–19 July 2013, Boston USA). The second stage of SISAM involves continued coordination with regional fishery management organizations and national agencies, the development of “good practice” guidelines, and further evaluation of model performance. The ICES Annual Science Conference offers a valuable opportunity to present planning options and solicit feedback from global experts in stock assessment methods. SISAM leadership organized an open session with an agenda that is intended to inform the audience on progress and plans and to encourage discussion to develop the scope and vision of the initiative.

Agenda

1. Strategic Initiative on Stock Assessment Methods - 2010–2013 progress (Steve Cadrin, SISAM Co-Chair)	15:00
2. ICES Methods Working Group progress and future directions (José De Oliveira and David Miller, WGMG Chair)	15:15
3. Development of Good Practices Guidance (Rick Methot, SISAM Steering Committee)	15:30
4. The Next Stage of the Strategic Initiative on Stock Assessment Methods (Ciaran Kelly, SISAM Co-Chair)	15:45
5. Open discussion moderated by Steve Cadrin	16:00
Closing	16:30

Presentations, discussions, and conclusions will be reported to the ICES Science and Advisory Committees.

Benchmark Steering Group (BSG) Open Session: Finding ways forward for integrated ecosystem understanding and advice

Co-Chairs: Carmen Fernández (Spain) and Jörn Schmidt (Germany)
Palexco Congress and Exhibition Centre, Arao Hall
Wednesday, 17 September 2014, 15:00–16:30

The new ICES Benchmark Steering Group is tasked with ensuring the effective transfer and application of innovative and relevant science into sound, credible, and responsive advice. In ICES, a benchmark refers to a process whereby the available scientific knowledge, data, and methods are reviewed in terms of their soundness and suitability for the purpose of advice provision, selecting the most appropriate methodologies to take forward into the advisory process. The Benchmark Steering Group is particularly tasked with advancing the benchmark process in ICES to include ecosystem and ecosystem sub-component assessments, and to develop the concept of regional ecosystem benchmarks with corresponding methods to deal with complexity and uncertainty. Its work will focus on: incorporation of relevant mixed-fisheries, multispecies, and ecosystem aspects (environmental drivers, impacts, constraints) in the stock assessment process; potential establishment of benchmarks for other environmental/ecosystem aspects of ICES advice (for example in connection with assessments of seabird population status or marine mammals); develop a multiyear roadmap for assessment of ecosystem components and integrated ecosystem assessments. The roadmap should consider how a benchmark process should look at a regional scale, identifying common issues across the region (e.g. data quality, fisheries management, surveys, environmental conditions and changes); data workshops for the region may precede integrated ecosystem assessment workshops.

The above tasks are undeniably challenging. In this open session we aim to generate ideas from the scientific community to help progress and to identify ways forward. The session will consist of three presentations and an open discussion, which will consider ways forward and challenges.

Agenda

1. Introduction to the Benchmark Steering Group (Carmen Fernández and Jörn Schmidt, BSG Co-Chairs)	15:00
2. Integrating Vulnerable Species concerns into the ICES Advice Framework (Simon Northridge, University of St Andrews)	15:10
3. Use of complex models for integrated advice: methodological approaches and examples (Sigrid Lehuta, Ifremer)	15:30
4. Indicators for Integrated Ecosystem Assessments (Phillip Levin, NOAA)	15:50
5. Open discussion	16:10
Closing	16:30

Presentations, discussions and conclusions will be reported to the ICES Science and Advisory Committees.

Facing the Data Armada: An Open Session on big data, operational products, and publishing

Co-Chairs: Jens Rasmussen (UK) and Jörn Schmidt (Germany)
Palexco Congress and Exhibition Centre, Arao Hall
Wednesday, 17 September 2014, 17:00–19:00

Tools for generating, managing, analysing, visualizing, citing, and sharing huge volumes of data are evolving at breakneck speed. Collectively, these developments are often referred to as “big data”.

The ICES community produces and manages big data – a large volume of distributed high-value data (Hampton *et al.*, 2013¹) – from both marine sampling programmes and modelling activities. With the improving capacity to cite datasets and freely available tools to perform the required tasks, the ICES marine science community is in a position to set out on the Big Data journey. But, are we ready for the trip? And how do we ensure the journey is better fated than the Spanish Armada that set out from A Coruña in 1588?

While a daunting prospect for many, the ICES community is already addressing a range of these challenges. In particular, the recent progress on both sides of the operational oceanographic “supply chain” is a step towards enabling much wider scale analysis. Data providers are continually improving existing products, as well as developing new ones to support the ICES community (e.g. index-based products of environment and oceanographic change) and the user community has started to explore the integration of these data products into the decision-making process (e.g. through close collaboration across expert groups).

Finally, an ongoing discussion on openness and replicability of scientific advice, which requires public datasets, tested methodologies, and open-source software is developing. A key aspect in addressing data openness is the method of publishing and citing data for collection efforts to be recognised. Without the ability to publish data in a coherent, but easily accessible way where collectors are recognised for their efforts, the Data Armada may well be sunk before it leaves port.

In this open session, we aim to open a dialogue, and blur the distinction between users (scientists, managers) and service providers (modellers, data centres, programmers) to explore wishes for the future and examples of current state-of-the-art data handling, visualization, citation, and e-repositories. We invite all interested parties to join the discussion and programme.

Agenda

1. Introduction to the big data challenge (Co-Chairs Jens Rasmussen, Jörn Schmidt)	17:00
2. Algorithmic challenges for big data problems in theory and applications (Dr Lasse Riemann, CAU Kiel, Germany)	17:10
3. Operational Oceanography products (Dr Rosa Barciela, Met Office, UK)	17:40
4. Open discussion on big data	
Closing	19:00

¹ Hampton, S. E., Strasser, C. A., Tewksbury, J. J., Gram, W. K., Budden, A. E., Batcheller, A. L., Duke, C. S., and Porter, J. H. 2013. Big data and the future of ecology. *Frontiers in Ecology and the Environment*, 11: 156–162. <http://dx.doi.org/10.1890/120103>.

ICES/PICES Strategic Initiative on Climate Change (SICCME) Open Session: Key findings of the 5th Report of the IPCC; SICCME plans for 2015–2016

Co-Chairs: Anne B. Hollowed (USA), Brian R. MacKenzie (Denmark), Manuel Barange (UK), and Suam Kim (Republic of Korea)
Palexco Congress and Exhibition Centre, Modular Room 6
Wednesday, 17 September 2014, 17:00–19:00

The Intergovernmental Panel on Climate Change released its fifth report in 2013–2014. At this session, four presentations will highlight the key findings of the panel in respect to past and future climate change, changes in the oceans (including the Polar Oceans), impacts on marine ecosystems, and consequences for fisheries and ecosystem management.

The last 20 minutes of the session will be dedicated to planning new SICCME activities in the coming 1–2 years (e.g. identifying theme session and workshop topics, update on plans for Brazil Symposium in 2015, etc.).

All ICES attendees are welcome.

Agenda

1. Introduction and welcome by SICCME Chairs	17:00
2. Long-term projections of climate change from the IPCC 5th Assessment Report (Matt Collins – IPCC WG I AR5)	17:05
3. Global climate change has regional implications and regional impacts - extraction from the ocean chapters of IPCC WGII AR5 (Svein Sundby – IPCC WG II AR5, The Oceans)	17:25
4. Projected impacts of climate change on Arctic marine ecosystems: a summary of key findings from the IPCC 5th Assessment Report (Anne Hollowed – IPCC WG II AR5, Polar Regions)	17:45
5. WG III - Mitigation. Why is the ocean missing? (Jake Rice – IPCC WG III AR5)	18:05
6. General discussion, questions	18:25
7. SICCME planning – coming events in 2015–2016, especially Brazil symposium (speakers, deadlines, etc.) – proposals for new theme sessions, workshops, conferences, symposia	18:40
Closing	19:00

ICES Recognition Programme

Presentation of the Prix d'Excellence

Innovation, teamwork, mentoring, and objective communication with the public exemplify the career of the recipient of the ICES Prix d'Excellence. Like the marine science community, this award is broader than ICES. Candidates will have contributed to the sustained use and conservation of marine ecosystems through their research, scientific leadership and/or leadership in the objective application of science to policy.

Presentation of the Outstanding Achievement Award

ICES Outstanding Achievement Award recognizes sustained, outstanding performance and contributions by a member of the ICES community whose career has been distinguished by a sustained commitment to excellence in endeavours of science, research, and leadership.

General Assembly, Monday 15 September 12:30–14:30

ICES Merit Awards

Many conferences give merit awards at the end of the event, offering formal recognition to the best research paper(s) and poster(s). What is different in ICES is that we also reward as many as three Early Career Scientists for their excellent oral or poster presentations. These awards are significant, and include a financial contribution for the awardees to attend ICES workshops, working groups, or conferences.

Best Presentation – the candidate who demonstrates scientific excellence, creativity, innovation, and leadership in addressing a particular science question in an objective, clear, and concise manner. The individual's ability to respond to questions concerning their presentation will also be considered.

Best Poster – creative, straightforward, and balanced, combining science and art. It should integrate the text and figures in a creative way and present them in a manner understandable by viewers with little previous knowledge of the scientific subject. The message of the poster should be readily visible and understandable. People should remember this poster as THE POSTER of the meeting.

Early Career Scientists awards – two oral presentation awards and one poster presentation award will be provided to Early Career Scientists. The award winners are selected by an evaluation panel appointed by ICES Science Committee (SCICOM).

In this session we will also present Service Awards to scientists who play a significant role in the running of ICES and who are coming to the end of their tenures. This provides a fitting finale to an action-packed conference.

Closing Session, Friday 19 September 17:15–18:15

Stay up to date with award winners and all other ASC news
#ices_asc (https://twitter.com/ICES_ASC)
ICES facebook (<https://www.facebook.com/ICES.Marine>)
And keep an eye out for the Inside the ASC blog

Theme Sessions

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Theme Session A

Gelatinous zooplankton on a global perspective: interactions with fisheries and consequences for socio–economics

Conveners: Cornelia Jaspers (Denmark), Richard Brodeur (PICES), and José Luis Acuña (Spain)

Agenda and Orders of the Day for:

Wednesday 17 September 2014, 09:00–13:00 – Modular Room 1

Wednesday 17 September 2014, 17:00–19:00 – Modular Room 1

Thursday 18 September 2014, 10:30–13:00 – Modular Room 1

- | | |
|------------------------------|-------|
| 1) Opening and introduction | 09:00 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM Code	Time
WEDNESDAY 17 SEPTEMBER 2014, 09:00–13:00 – Modular Room 1	
A: 01 Oral	09:15
Title: Recurrent jellyfish blooms in the East Asian seas: how to adapt and manage for fisheries sustainability	
Author: Shin-ichi Uye	
Keywords: <i>Aurelia aurita</i> , <i>Nemopilema nomurai</i> , causes, forecast, countermeasures, fisheries sustainability, adaptation, management, East Asian seas	
A: 02 Oral	09:30
Title: Has the biomass of jellyfish already surpassed small pelagic fish in the NW Mediterranean Sea? Results from an intense spatiotemporal survey during 2011-2014 and comparison with the long-term trend.	
Authors: Martin K.S. Lilley, Leo Berline, Martina Ferraris, Amanda Elineau, Perrine Cuvilliers, Lars Stemmann, Fabien Lombard	
Keywords: Jellyfish, spatial and temporal distribution, abundance, biomass, carbon flux	
A: 03 Oral	09:45
Title: Fish, jellyfish, and Killing the Winner	
Authors: Anders F. Opdal and Dag L. Aksnes	
Keywords: jellyfish, fish, competition, eutrophication, water clarity	
BREAK	
A: 04 Oral	10:30
Title: Jellyfish, Forage Fish and the World's Major Fisheries	
Authors: Kelly L. Robinson, W. Monty Graham, Richard D. Brodeur, James J. Ruzicka, Frank J. Hernandez, Mary Beth Decker, Marcelo Acha, Hermes W. Mianzan, Javier Quiñones, and Shin-ichi Uye	
Keywords: wasp-waist species, forage fish fisheries, jellyfish blooms, ecosystem transformation, ecosystem-based fisheries management	

A: 05 Oral	Title: Impact of <i>Pelagia noctiluca</i> jellyfish on fish populations: predation and food competition in the NW Mediterranean	10:45
	Authors: Uxue Tilves, Jennifer E. Purcell, Verónica Fuentes, Josep-Maria Gili, Vanesa Raya, Maria Pascual, and Ana Sabatés	
	Keywords: scyphozoan, gut content, digestion time, ichthyoplankton, zooplankton	
A: 06 Oral	Title: Role of large coastal jellyfish and forage fish as energy transfer pathways in the northern Gulf of Mexico	11:00
	Authors: Kelly L. Robinson, James Ruzicka, Mary Beth Decker, Frank Hernandez, Richard D. Brodeur, and W. Monty Graham	
	Keywords: forage fish, Gulf menhaden, jellyfish, ecosystem modeling, Gulf of Mexico, ecosystem-based fisheries management	
A: 07 Oral	Title: Effects of <i>Pelagia noctiluca</i> jellyfish swarms on caged gilthead sea bream	11:15
	Authors: M. Bosch-Belmar, O. Kéfi-Daly Yahia, C. M'Rabet, R. Dhaouadi, V. Fuentes, M. Chalghaf, and S. Piraino	
	Keywords: marine aquaculture, gelatinous zooplankton, fish mortalities, gill disorders	
A: 08 Oral	Title: Distribution of the non-indigenous ctenophore <i>Mnemiopsis leidyi</i> and impact on plankton community structure in the Eastern English Channel–Southern North Sea region	11:30
	Authors: Elvire Antajan, Vincent Cornille, Kris Hostens, Valérie Lefebvre, Sophie Pitois, Morgane Travers-Trolet, Lies Vansteenbrugge, Dorothee Vincent, David Vuylsteke, Lodewijk van Walraven, and Sofie Vandendriessche	
	Keywords: <i>Mnemiopsis leidyi</i> , spatial distribution, plankton typology, English Channel, Southern North Sea	
A: 09 Oral	Title: Fine-scale vertical distribution and migration of gelatinous zooplankton and ichthyoplankton in the northern Gulf of Mexico	11:45
	Authors: Jessica Y. Luo, Cedric M. Guigand, and Robert K. Cowen	
	Keywords: diel vertical migration, ichthyoplankton, gelatinous zooplankton, gulf of mexico, imaging systems, trophic interactions	
A: 10 Oral	Title: The influence of habitat occupancy by gelatinous zooplankton on pelagic community in Barents Sea ecosystem	12:00
	Author: Elena Eriksen	
	Keywords: gelatinous zooplankton, habitat occupancy, biomass, Barents Sea	
A: 11 Oral	Title: Comparison between introduced and native ctenophores in Nordic waters – feeding rates and survival in low food conditions	12:15
	Authors: Lena Granhag and Aino Hosia	
	Keywords: lobate ctenophores, zooplankton predation, starvation survival, ballast water transfer	
A: 12 Oral	Title: Gelatinous zooplankton in the Belgian part of the North Sea and the adjacent Schelde estuary: a real problem?	12:30
	Authors: Lies Vansteenbrugge, Kris Hostens, Tina Van Regenmortel, Marleen De Troch, and Magda Vincx	
	Keywords: Gelatinous zooplankton, spatial and temporal distribution, Belgian part of the North Sea, Schelde estuary	

A: 13 Oral	Title: Does the "snot" of the oceans matter? Engaging with the public on gelatinous zooplankton. Lessons learned from The Danish Eel Expedition 2014	12:45
	Author: Line Reeh, Cornelia Jaspers, Sune Riis Sørensen, Mads Christoffersen, Torkel Gissel Nielsen, and Peter Munk	
	Keywords: gelatinous zooplankton, snot, communication, public engagement, public outreach, social media, press, Sargasso Sea, European Eel, www.facebook.com/aaleekspedition	

WEDNESDAY 17 SEPTEMBER 2014, 17:00–19:00 – Modular Room 1

A: 14 Oral	Title: Range expansion of the Sea Nettle (<i>Chrysaora quinquecirrha</i>) and impacts on pelagic food webs	17:00
	Authors: Paul A. X. Bologna, John J. Gaynor, Christie Castellano, and Dena Restaino	
	Keywords: Jellyfish invasion, top-down, <i>Chrysaora</i> , <i>Mnemiopsis</i>	
A: 15 Oral	Title: Coelenterates on the upswing along the west coast of India – review of data from International Indian Ocean Expedition (IIOE, 1960–1965) to 2005	17:15
	Author: Rosamma Stephen	
	Keywords: jelly fish blooms, coelenterates, fishery	
A: 16 Oral	Title: A density dependent <i>Thalia democratica</i> population model	17:30
	Authors: Natasha Henschke, James A Smith, Jason D. Everett, and Iain M Suthers	
	Keywords: salps, salp swarm, <i>Thalia democratica</i> , population model	
A: 17 Oral	Title: <i>Scyphozoan medusae</i> : the seasonal and spatial distribution along transects trough the Baltic Sea	17:45
	Author: Elena Karasiova, Igor Karpushevski, and Alexander Zezera	
	Keywords: <i>Scyphozoan medusae</i> , distributional traits, biotopes	
A: 18 Oral	Title: Along-shore and cross-shelf distributions of planktonic cnidarians during autumnal offshore transport in the southern Gulf of Mexico	18:00
	Authors: L. Martell, M. Sánchez-Ramírez, and A. Ocaña-Luna	
	Keywords: jellyfish, hydromedusae, siphonophores, offshore transport, Bay of Campeche	
A: 19 Oral	Title: Changes in jellyfish populations during mucilage event in the Izmit Bay (the northeastern Marmara Sea)	18:15
	Author: Melek Isinibilir	
	Keywords: Marmara Sea, mucilage, gelatinous zooplankton	
	Tribute to Hermes Mianzan	18:30
	Discussion	18:45

THURSDAY 18 SEPTEMBER 2014, 10:30–13:00 – Modular Room 1

A: 20 Oral	Title: Invited speaker Veronica Fuentes	10:30
A: 21 Oral	Title: Laboratory studies on planulae and polyps of scyphozoans help reveal the dynamics and constraints of North Sea jellyfish populations Authors: Maria Gambill, Marc Hufnagl, Markus Kreuz, and Myron A. Peck Keywords: jellyfish, planulae, polyps, ecophysiology, laboratory, experiments, biophysical modelling	11:00
A: 22 Oral	Title: Growth and lifecycle of the scyphozoan jellyfish <i>Pelagia noctiluca</i> : results from laboratory rearing and <i>in situ</i> observations Authors: Martin K.S. Lilley, Martina Ferraris, Amanda Elineau, Leo Berline, Perrine Cuvilliers, Laurent Gilletta, Gabriel Gorsky, and Fabien Lombard Keywords: Jellyfish, growth rates, carbon flux, seasonal impact	11:15
A: 23 Oral	Title: Dynamics of production and mortality of <i>Aurelia aurita</i> 's ephyrae in Thau Lagoon, Northwestern Mediterranean Authors: R. Marques, C. Bouvier, M. Cantou, A. Darnaude, J.C. Molinero., C. Przybyla, S. Soriano., J.A. Tomasini, and D. Bonnet Keywords: <i>Aurelia aurita</i> , polyps, ephyrae, population dynamics, Thau lagoon, fish predation	11:30
A: 24 Oral	Title: The regulation of the scyphomedusa <i>Cyanea capillata</i> through predation on its larval stages, from release of planulae to settlement Author: Zafir Kuplik, Dror Angel, and Dani Kerem Keywords: jellyfish, planula, predation, population regulation	11:45
A: 25 Oral	Title: What are jellyfish really eating? Authors: M. Parra, R. Marques, P. Chainho, M. Angelico, J. Cruz, P. Morais, and M. A. Chicharo Teodosio Keywords: <i>Blackfordia virginica</i> , plankton, RNA/DNA ratios, estuaries	12:00
A: 26 Oral	Title: Trophic ecology and potential predation impact of <i>Carybdea marsupialis</i> (Cnidaria: Cubozoa) in the NW Mediterranean Authors: M.J. Acevedo, V.L. Fuentes, M.B. Belmar, A.J. Canepa, K. Toledo-Guedes, C. Bordehore, and A. Calbet Keywords: box jellyfish, <i>Carybdea marsupialis</i> , gut content, prey selection, trophic role, predation impact	12:15
A: 27	<i>Withdrawn</i>	
A: 38 Oral	Title: Summer Jellyfish Blooms in an Upwelling Ecosystem: Modeling Impacts upon Fish Production and Evaluating Evidence Authors: James J. Ruzicka, Elizabeth A. Daly, and Richard D. Brodeur Keywords: jellyfish, fisheries, food web, model	12:30

A: 28 Oral	Title: Jellyfish as prey: frequency of predation and selective foraging of <i>Boops boops</i> (Vertebrata, Actinopterygii) on the mauve stinger <i>Pelagia noctiluca</i> (Cnidaria, Scyphozoa)	12:45
	Authors: Giacomo Milisenda, Sara Rosa, Veronica L. Fuentes, Ferdinando Boero, Letterio Guglielmo, Jennifer E. Purcell, and Stefano Piraino	
	Keywords: Jellyfish as prey, biochemical composition, energy content, fish foraging behaviour, trophic dead-ends, source-sink dynamics	
	End of session	13:00

Posters

A: 29 Poster	Title: Monsoon-driven hydrographic features affect thaliacean distribution in the Taiwanese waters, western North Pacific Ocean	
	Authors: W.T Lo, Z.H. Liao, and H.Y. Hsieh	
	Keywords: Monsoon, water mass, Taiwan thaliacean, distribution	
A: 30 Poster	Title: Lumpfish as main consumer of northern comb jelly and effective tool of its research	
	Authors: S.M. Rusyaev and A.M. Orlov	
	Keywords: Ctenophora, comb jelly, lumpfish, diet, distribution, Barents Sea	
A: 31 Poster	Title: Fish Predators of Northeast Pacific Jellyfish: What are we missing?	
	Authors: R.D. Brodeur, T.W. Buckley, and R.E. Hibpshman	
	Keywords: jellyfish, nekton, diets, pelagic, demersal, digestion rates	
A: 32 Poster	Title: Jellyfish boost pelagic productivity	
	Authors: Aino Hosia, Christina Augustin, Julie Dinasquet, Jorun K Egge, Lena Granhag, Maria L Paulsen, Lasse Riemann, Janne-Markus Rintala, Outi Setälä, Julia Talvitie, and Josefin Titelman	
	Keywords: trophic cascades, energy pathways, pelagic community, food web	
A: 33 Poster	Title: First report on the population of gelatinous zooplankton around the French Caribbean islands (Guadeloupe and Martinique)	
	Authors: Delphine Thibault, Aurélie Boisnoir, Cecila Claeys, Louis Arreghini, and Fabien Lombard	
	Keywords: French Caribbean islands, gelatinous zooplankton, species, pluridisciplinarity oceanography/sociology	

A: 34 Poster	Title: A synthesis of the distribution of <i>Mnemiopsis leidyi</i> in European waters
	Authors: Cornelia Jaspers, Elvire Antajan, Ragnihild Asmus, Maarten Boersma, Umberto Binetti, Delphine Bonnet, Delphine Botha, Jens Tang Christensen, Floriane Delpy, Galina Finenko, Veronica Fuentes, Matilda Haraldsson, Holger Haslob, Aino Hosia, Bastian Huwer, Jamileh Javidpour, Lyudmila Kamburska, Florian Kellenreiter, Sandra Kube, Victor Langenberg, Thomas Lesniowski, Fabien Lombard, Martin Lilley, Arne Malzahn, Macarena Marambio, Veselina Mihneva, Lene Friis Møller, Ulrich Niermann, Melek Isinibilir Okyar, Sophie Pitois, Johan Robbens, Hans Ulrik Riisgaard, Matthias Schaber, Kremena Stefanova, Henk van der Veer, Lies Vansteenbrugge, and Lodewijk van Walraven
	Keywords: Invasive species, comb jelly, fisheries, gelatinous zooplankton
A: 35 Poster	Title: Potential impacts of fouling and planktonic cnidarians on farmed sea bass in the Western Mediterranean Sea
	Authors: M. Bosch-Belmar, M.M. Isern, V. Taurisano, G. Milisenda, S. Piraino, M. López, and V. Fuentes
	Keywords: marine aquaculture, gelatinous zooplankton, fouling, fish mortalities, gill disorders
A: 36 Poster	Title: Seasonal survey of gelatinous plankton within a harbour of the North Sea (Dunkirk, France): assessing potential clogging risk for coastal industrial plants
	Authors: Thomas Bastian, Elvire Antajan, Thomas Raud, Vincent Cornille, Jean-Michel Brylinski, and Dorothee Vincent
	Keywords: jellyfish, gelatinous plankton, seasonal monitoring, risk assessment, coastal industrial plant
A: 37 Poster	Title: A stinging tale? Looking for nematocysts of <i>Catostylus</i> jellyfish in gills of trawl-caught-and-discarded fish in Southeastern Australia
	Authors: Sebastian S. Uhlmann, Matt K. Broadhurst, and C. P. Brand
	Keywords: <i>Catostylus</i> jellyfish, histopathology, nematocysts, Surf bream (<i>Acanthopagrus australis</i>), unaccounted discard mortality
A: 39 Poster	Title: Potential impacts of the occurrence of blooms of <i>Blackfordia virginica</i> in the Mira estuary, SW Portugal
	Authors: Maria Manuel Angélico, Filipa Marques, Paula Chainho, Isabel Domingos, Alexandra Teodósio, and José Lino Costa
	Keywords: <i>Blackfordia virginica</i> , feeding behaviour, jelly impact
A: 40 Poster	Title: Development of <i>Carybdea brevipedalia</i> (Kishinouye, 1891) (Cnidaria: Cubozoa: Carybdeida: Carybdeidae) collected from northern Japan
	Authors: Sho Toshino, Haruka Shibata, and Hiroshi Miyake
	Keywords: budding, Cubozoa, life history, polyp

A: 41 Poster	Title: Jellyfish and the wind: distribution and abundance of <i>Chrysaora quinquecirrha</i> in a shallow water estuary, North Carolina, USA
	Authors: Mahealani Y. Kaneshiro and David G. Kimmel
	Keywords: jellyfish, sea nettles, <i>Chrysaora quinquecirrha</i> , wind-driven circulation, estuaries, recreation
A: 42 Poster	Title: The water content of gelatinous animals
	Author: A. Molina-Ramírez, C. Cáceres, J. Bueno, J.I. González-Gordillo, X. Irigoien, J. Sostres, X. Salaberria, A. Bode, M. L. Fernández Puelles, and F. Echevarria
	Keywords: body size, carbon, wet weight, gelatinous zooplankton, gelatinous necton, jellyfish, salp, ctenophore
A: 43 Poster	Title: JeDI (Jellyfish Database Initiative): a new open-access gelatinous plankton database
	Author: Cathy H. Lucas, Robert H. Condon, Carlos M. Duarte, William M. Graham, Kelly L. Robinson, Kylie A. Pitt, Mark Schildhauer, and Jim Regetz
	Keywords: plankton database, geographic patterns, cnidarian jellyfish, NCEAS
A: 44 Poster	Title: Jellyfish Distribution and Dynamics in the North Sea
	Author: Antonio Pliru and Christopher Lynam
	Keywords: jellyfish distribution; North Sea; species assemblages

Theme Session B

The science and tools for the management of networks of Marine Protected Areas

Conveners: Henrique Queiroga (Portugal), Helen Bailey (USA), and Elsa Vázquez Otero (Spain)

Agenda and Orders of the Day for:

Monday 15 September 2014, 16:30–19:00 – Modular Room 1

Tuesday 16 September 2014, 10:30–18:00 – Modular Room 1

- | | |
|------------------------------|-------|
| 1) Opening and introduction | 16:30 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM Code		Time
MONDAY 15 SEPTEMBER 2014, 16:30–19:00 – Modular Room 1		
B:01 Oral	<p>Title: Wandering Mussels: using natural tags to identify connectivity matrices amongst Marine Protected Areas</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Authors: Inês Gomes, Laura G. Peteiro, Rui Albuquerque, Steve E. Swearer, and Henrique Queiroga</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Keywords: natal source, trace element chemistry, <i>Mytilus</i>, elemental fingerprinting, LA-ICPMS, population connectivity</p>	16:45
B: 02 Oral	<p>Title: Identification and management implications of whale movement corridors and connectivity among a network of marine protected areas</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Authors: Helen Bailey, Bruce Mate, Ladd Irvine, Daniel Palacios, Elliott Hazen, Steven Bograd, Karin Forney and Evan Howell</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Keywords: marine protected areas, seascape ecology, habitat model, top predators, national marine sanctuaries</p>	17:00
B: 03 Oral	<p>Title: Post-breeding season migration patterns of a top predator, the harbor seal (<i>Phoca vitulina richardii</i>), from a marine protected area in Alaska</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Authors: Jamie Womble and Scott M. Gende</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Keywords: marine protected area, pinniped, harbor seal, migration, site fidelity, conservation</p>	17:15
B: 04 Oral	<p>Title: Towards the development of an MPA network of in the Gulf of Mexico; modeling larval drift, connectivity, and source/sink regions.</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Authors: Michael Drexler and Cameron H. Ainsworth</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Keywords: population connectivity, ecosystem model, MPA, Atlantis</p>	17:30

B: 05 Oral	Title: Effects of marine protected areas, environmental conditions, and biological interactions on the abundance of echinoderms on Georges Bank	17:45
	Authors: Judith Rosellon-Druker and Kevin D.E. Stokesbury	
	Keywords: MPA, predator-prey interactions, essential habitat, spatial analysis, Ecosystem Based Fisheries Management	
B: 06 Oral	Title: MPA design: modelling species distribution with ENFA and MADIFA approaches	18:00
	Authors: N. Sánchez-Carnero, D. Rodríguez-Pérez, E. Couñago, F. Le Barzik, F. and J. Freire	
	Keywords: marine protected area, habitat suitability, ENFA, MaDiFA	
B: 07 Oral	Title: Combining multispecies home range and distribution models to evaluate the optimal design of MPAs	18:15
	Authors: David Abecasis, Pedro Afonso, and Karim Erzini	
	Keywords: marine reserve, acoustic telemetry, species distribution models, vulnerability to fishing	
B: 08 Oral	Title: Maerl beds in Galician Marine Protected Areas. How the scientific research can contribute to their management	18:30
	Authors: Viviana Peña, Rodolfo Barreiro, Ignacio Bárbara, Javier Cremades, Pilar Díaz, Cristina Pardo, Lúa López, Belén Carro, Cristina Piñeiro, and Verónica García	
	Keywords: biogenic habitats, conservation, maerl beds, management	
B: 09 Oral	Title: The MPA "Parc naturel marin d'Iroise" (France, Brittany), a zone of high conservation value for kelp forest biodiversity	18:45
	Authors: Marine Robuchon, Lucía Couceiro, Régis Gallon, Line Le Gall, and Myriam Valero	
	Keywords: genetic tools, <i>Laminaria digitata</i> , <i>Laminaria hyperborea</i> , seaweed communities, species distribution modelling, refuge area	

TUESDAY 16 SEPTEMBER 2014, 10:30–18:00 – Modular Room 1

B: 10 Oral	Title: Marine protected areas in the Atlantic Arc: "paper reserves" or effective management tools?	10:30
	Authors: Inmaculada Álvarez-Fernández, Nuria Fernández, and Juan Freire	
	Keywords: marine reserves, MPA, management, performance, Atlantic Arc	
B: 11 Oral	<i>Withdrawn</i>	10:45
B: 12 Oral	Title: Adaptive management based on monitoring of marine protected areas in California	11:00
	Authors: L.W. Botsford, J.W. White, E.A. Moffitt, K.J. Nickols, M. E. Carr, F. Cordoleani, L. A. K. Barnett, M. L. Baskett, and A. Hastings	
	Keywords: marine protected areas, monitoring, adaptive management	
B: 13 Oral	Title: FishSET: a spatial economics toolbox to better incorporate fisher behavior into fisheries management	11:15
	Author: Alan Haynie	
	Keywords: fleet behavior, location choice, software, model comparison, marine protected areas	

B: 14 Oral	Title: Taking into account medium term impact of conservation measures on mixed fisheries across the MPA network in the Eastern English Channel for conservation planning	11:30
	Authors: Yves Reece, Sigrid Lehuta, Loïc Gasche, Sandrine Vaz, Stéphanie Mahévas, Robert J Smith, and Paul Marchal	
	Keywords: MPAs, systematic conservation planning, fleet dynamics, model coupling, Eastern English Channel	
B: 15 Oral	<i>Withdrawn</i>	
B: 16 Oral	Title: Baie ny Carrickey Closed Area: Managing fishermen to manage Marine Protected Areas	11:45
	Authors: Isobel Bloor, Peter Duncan, Sam Dignan, Lee Murray, and Michel Kaiser	
	Keywords: MPAs, closed areas, crustaceans	
B: 17 Oral	Title: Fisheries management measures in an MPA: socioeconomic impact assessment and governance issues in the case of the German small scale gillnet fisheries around the island of Fehmarn in the Baltic Sea	12:00
	Author: Leyre Goti	
	Keywords: MPA, small scale fisheries, Baltic Sea, economic impact assessment, governance	
B: 18 Oral	Title: Ramsey Marine Nature Reserve Fisheries Management Zone: A novel approach to mitigating the socioeconomic impacts of an MPA	12:15
	Authors: Sam Dignan, Isobel Bloor, Peter Duncan, Michel Kaiser, Lee Murray, and Kevin Kennington	
	Keywords: marine nature reserve, cooperation, ecosystem capital, fuel costs	
B: 19 Oral	Title: Changes in species abundance, richness, diversity and community structure after three years of protection. Protection evidences?	12:30
	Authors: D. Fernández-Márquez, P. Pita, N. Alborés, N. Fernández-Rodríguez, and R. Muiño	
	Keywords: marine protected areas, community structure, protection effects, marine fishery reserve, Galicia; Atlantic coast, multivariate analysis	
	Discussion	12:45
LUNCH		
B: 20 Oral	Title: A Question of Scale: Evaluating the impact of marine protected areas off of New England on groundfish productivity	15:00
	Authors: Lisa A. Kerr, Jake Kritzer, and Steven X. Cadrin	
	Keywords: marine protected areas, groundfish, spatial and temporal scale	
B: 21 Poster	Title: Predicting diversity hot-spots using data from scientific fisheries surveys	15:15
	Authors: A.K. Miriam Püts, W. Nikolaus Probst, and Kay Panten	
	Keywords: biodiversity, species distribution, distribution models, GAM fisheries surveys, ecological monitoring	

B: 22 Poster	Title: Seabed mapping and Vulnerable Marine Ecosystems protection in the high-seas fisheries: Four case studies on progress in the Atlantic Ocean	15:17
	Authors: P. Durán Muñoz, M. Sacau, J.L. Del Río, L.J. López-Abellán, and R. Sarralde	
	Keywords: Atlantic Ocean, bottom fisheries, closed areas, habitat mapping, high-seas, protection, Vulnerable Marine Ecosystems	
B: 23 Poster	Title: Unravelling the role of marine fin-fish farms on the design, implementation, and management of networks of protected areas for the conservation of marine top predators	15:19
	Author: Bruno Díaz López	
	Keywords: MPAs, marine aquaculture, top predators, coastal conservation	
B: 24 Poster	Title: The effect of consumers' depletion on the resistance of the seagrass <i>Posidonia oceanica</i> to the invasion of the macroalga <i>Caulerpa racemosa</i> in a Mediterranean MPA	15:21
	Authors: Sarah Caronni, Chiara Calabretti, Maria Anna Delaria, Giuseppe Bernardi, Augusto Navone, Anna Occhipinti-Ambrogi, Pieraugusto Panzalis, and Giulia Ceccherelli	
	Keywords: Marine protected area, predation, spread, resistance, <i>Caulerpa racemosa</i> , <i>Posidonia oceanica</i>	
B: 25 Poster	Title: Spear fishing ban in MPAs: the rational choice?	15:23
	Authors: Pablo Pita and Diana Fernández-Márquez	
	Keywords: MPA, spearfishing, biological impacts, economic benefits	
B: 26 Poster	Title: Habitat characterization of intertidal populations of the purple sea urchin, <i>Paracentrotus lividus</i> (Lamark, 1816), in north Portugal	15:25
	Authors: Rula Domínguez, José Manuel Parada Encisa, and Iacopo Bertocci	
	Keywords: sea urchin, <i>Paracentrotus lividus</i> , intertidal, rock pools, spatial scale	
B: 27 Poster	Title: Evaluating the efficiency of no-take areas to restore fish stocks – the Swedish experience	15:27
	Authors: A-B. Florin, L. Bergström, and U. Bergström	
	Keywords: MPA, no-take zones, Licknevarpefjärden, Gotska Sandön	
B: 28 Poster	Title: A benign technique for mapping coral distribution in the closed areas of the Rockall Plateau	15:29
	Authors: Fiona D. McIntyre, Francis Neat, and Paul G. Fernandes	
	Keywords: cold-water coral, towed camera, geostatistics	
B: 29 Poster	Title: Using elemental microchemistry, fatty acid profile, and geometric morphometrics to identify goose barnacle origin	15:31
	Authors: R. Albuquerque, H. Queiroga, C.R. Correia, R. Calado, and S.M. Leandro	
	Keywords: goose barnacle, ICP-MS, fatty acid profile, geometric morphometrics, source of origin, discriminant function analysis	

B: 30 Poster	Title: Using variable transects widths to study rocky reefs fishes in poor visibility environments, a suitable technique for monitoring marine protected areas from Galicia	15:33
	Authors: D. Fernández-Márquez, A. Tubio, R. Muiño, and P. Pita	
	Keywords: marine protected areas, underwater visual census (UCV), transect wide, low-visibility environments	
B: 31 Poster	Title: A new method for assessing the underwater seascape for marine tourism management in Marine Protected Areas	15:35
	Authors: Cristina Piñeiro-Corbeira, Raquel de la Cruz Modino, Mercedes Olmedo, and Rodolfo Barreiro	
	Keywords: marine protected areas, underwater seascape, perceptible seascape elements, potential observation index, snorkelling	
B: 32 Poster	Title: Using acoustic telemetry to measure fine-scale movement and interactions of marine animals: implications for Marine Protected Areas	15:37
	Authors: J.E. Ehrenberg, T.W. Steig, C.H. Greene, and I. Brosnan	
	Keywords: acoustic telemetry, fine-scale movement, species interaction	
B: 33 Poster	Title: Digital image-based Area/Weight-Models improve weight estimates of important North Sea fish	15:39
	Authors: Florian Krau, Sven Hammann, and Joachim Gröger	
	Keywords: whiting (<i>Merlangius merlangus</i>), Atlantic cod (<i>Gadus morhua</i>), Area-Weight-Model, digital imaging	
B: 34 Poster	Title: Mismatch between biological, exploitation, and governance scales and ineffective management of sea urchin (<i>Paracentrotus lividus</i>) fisheries in Galicia	15:41
	Authors: Rosana Ouréns, Inés Naya, and Juan Freire	
	Keywords: metapopulation, denso-dependency, management, sea urchin, spatial structure, rotations, reserve networks	
B: 35 Poster	Title: Inventory and Designation of Marine Natura 2000 Areas in the Spanish Seas, the LIFE+ INDEMARES project	15:43
	Author: David Peña Uceda	
	Keywords: biodiversity, Marine Natura 2000 Network, Sites of Community Importance (SCIs), Special Protection Areas for Birds (SPAs)	
	Discussion	15:45
	BREAK	16:30
	End of session	18:00

Theme Session C
One size does not fit all –
What does an integrated ecosystem assessment mean to YOU?

Conveners: Rebecca Shuford (USA), Hein Rune Skjoldal (Norway), and Robin Andersen (Canada)

Agenda and Order of the Day for:
 Thursday 18 September 2014, 10:30–16:30 – Arao

- 1) Opening and introduction 10:30
- 2) Appointment of rapporteur
- 3) Presentation of papers

CM Code		Time
C: 01 Oral	<p>Title: Matching Content of Integrated Assessments to Intended Uses</p> <p>Author: Jake Rice</p> <p>Keywords: integrated assessments, science-policy interactions, assessment of assessments integrated assessments, science-policy interactions, assessment of assessments integrated assessments, science-policy interactions, assessment of assessments</p>	10:40
C: 02 Oral	<p>Title: Describing the "Integrated" in Integrated Ecosystem Assessments</p> <p>Authors: Rebecca L. Shuford, Hein Rune Skjoldal, and M. Robin Anderson</p> <p>Keywords: assessment, integrated ecosystem assessment, ecosystem approach to management</p>	10:55
C: 03 Oral	<p>Title: Distilling complex information for Integrated Ecosystem Assessments</p> <p>Authors: Gavin Fay and Jason S. Link</p> <p>Keywords: data visualization, model output presentation, gaming, animations, video, social media, management strategy evaluation, decision analysis</p>	11:10
C: 04 Oral	<p>Title: A demonstration of an integrated ecosystem assessment and advice for Baltic Sea fish stocks</p> <p>Authors: Christian Möllmann, Lena Bergström, Thorsten Blenckner, Michele Casini, Jan Dierking, Margit Eero, Philip Levin, Martin Lindegren, Stefan Neuenfeldt, Saskia Otto, Jörn Schmidt, Maciej Tomczak, Rudi Voss, and Anna Gårdmark</p> <p>Keywords: Baltic Sea, indicator approaches, integrated advice, integrated ecosystem assessment, multispecies modelling, strategic modelling</p>	11:25

C: 05 Oral	Title: The Integrated Assessment as the main goal for achieving an Ecosystem Approach to Management in the Western European Shelf Seas	11:40
	Authors: E. Andonegi, S. Beggs, M.F. Borges, P. Laffargue, M. Llope, E. Nogueira, and D. Reid	
	Keywords: integrated assessment, ecosystem, western European shelf seas, MSFD	
C: 06 Oral	Title: Integrated Ecosystem Assessments in Norway: Comparison over three different ecosystems	11:55
	Author: Daniel Howell, Edda Johannesen, Geir Huse, Hein Rune Skjoldal, Gro van der Meeren, Kjell Utne, and Geir Ottersen	
	Keywords: IEA, Norway, Barents Sea, Norwegian Sea, North Sea	
C: 07 Oral	Title: Perspectives on an Integrated Ecosystem Assessment for European Regional Seas: the ODEMM Approach	12:10
	Author: L.A. Robinson, K.N. Papadopoulou, F.E. Culhane, H. Bloomfield, P. Breen, T. Churilova, F. Goodsir, S.S. Hussain, A.M. Knights, P. Margonski, G.J. Piet, J. Raakjaer, S.I. Rogers, C.J. Smith, and C.L.J. Frid	
	Keywords: structured assessment, trade-offs, holistic, management options, policy objectives	
C: 08 Oral	Title: Incorporating Integrated Ecosystem Assessment products into stock assessments in the Gulf of Mexico: A first experience with gag grouper (<i>Mycteroperca microlepis</i>)	12:25
	Authors: Arnaud Grüss, Skyler Sagarese, Michael J. Schirripa, Jakob C. Tetzlaff, Meaghan Bryan, John Walter III, David Chagaris, Alisha Gray, Mandy Karnauskas, Claire B. Paris, Glenn Zapfe, Behzad Mahmoudi and Cameron H. Ainsworth	
	Keywords: stock assessment, Gulf of Mexico, ecosystem considerations, ecosystem modeling	
C: 09 Oral	Title: Strategic Environmental Assessments for the Newfoundland and Labrador Offshore Area	12:40
	Authors: Elizabeth Young	
	Keywords: Canada–Newfoundland and Labrador Offshore Petroleum Board, Strategic Environmental Assessment, Newfoundland and Labrador, offshore area, petroleum resources, oil and gas	
LUNCH		
	Discussion: The human dimensions of Integrated Ecosystem Assessment	15:00
	Panellists: Elizabeth Young, Canada–Newfoundland and Labrador Offshore Petroleum Board, Canada; Mark Dickey-Collas, ICES, Denmark; and Phillip Levin, Northwest Fisheries Science Center, USA	
C: 10 Oral	Title: New dance, old steps? Co-creation for the Ecosystem Approach to Management	15:25
	Authors: M. Ballesteros, R. Chapela, and Jose L. Santiago	
	Keywords: participation, science-policy gap, ecosystem approach to management	
C: 11	<i>Withdrawn</i>	
C: 12	<i>Withdrawn</i>	

C: 13 Oral	Title: Selecting indicators for operational assessment of marine ecosystem services	15:40
	Authors: Anahita Marzin, Dominique Davoult, Olivier Guyader, Martial Laurans, Philippe Le Nilliot, Alice Vanhoutte-Brunier, and Rémi Mongruel	
	Keywords: marine ecosystem services, indicators, kelp, ecosystem-based management	
C: 14 Oral	Title: Can we develop an integrated ecosystem assessment without using reference points?	15:55
	Authors: Marie-Joëlle Rochet & Verena Trenkel	
	Keywords: reference points , integrated ecosystem assessment, multiple drivers, indicators	
C: 15 Oral	Title: Comparison of Scientific Review Processes for Improving the Integrity and Throughput of Scientific Information for Ecosystem Based Fishery Management	16:10
	Authors: William L. Michaels, Manoj Shivilani, David Die, David Sampson, and Roberto Koeneke	
	Keywords: ecosystem management, fisheries management, scientific integrity, peer review	
	Discussion	16:25
	Posters	
C: 16 Poster	Title: The Gulf of Cadiz ecosystem, first steps towards its Integrated Ecosystem Assessment	
	Authors: Marcos Llope, Francisco Baldó, María J. Bellanco, Gustavo F. Carvalho-Souza, Carmen González and Maria Á. Torres	
	Keywords: IEA, Ecosystem Based Management (EBM)	
C: 17 Poster	Title: Multispecies reference points for three a species system with a predator and two prey species in the Baltic Sea	
	Authors: Niclas Norrström, Michele Casini, and Noël Holmgren	
	Keywords: interaction, reference points, maximum sustainable yield, production	
C: 18 Poster	Title: Intertidal seagrass meadows of San Simón Bay (NW Spain) as a coupled social-ecological system	
	Authors: Leticia Bas Ventín	
	Keywords: Sustainability, integrated coastal management, intertidal seagrass meadows, governance, social-ecological system	
C: 19 Poster	Title: An Ecosystem Services Framework for Integrated Ecosystem Assessment of the Northeast U.S. Continental Shelf	
	Authors: Michael J. Fogarty, Kevin Friedland, Sarah Gaichas , Robert Gamble, Scott Geis, Jon Hare, Kimberly Hyde, Sean Lucey and Marie-Caroline Martin	
	Keywords: Ecosystem Services, environmental stressors, integrated ecosystem assessment, ecosystem-based management, ecosystem reference points	

C:20 Poster	Title: Four fish in 2048 -What will be the status of the wild ones?
	Authors: Martin F. Quaas, Rudi Voss, Jörn O. Schmidt and Olli Tahvonen
	Keywords: ecological-economic model, economic drivers, multi-species model, cod, tuna, demand, technological progress, aquaculture
C:21 Poster	<i>Withdrawn</i>
C:22 Poster	Title: Identifying species assemblages on the Northeast Shelf from bottom trawl surveys
	Authors: Kristin M. Kleisner, Michael J. Fogarty, Sally McGee, Jennifer Greene, Christopher McGuire, Jay Odell, Vincent Saba and Katherine Weaver
	Keywords: Integrated Ecosystem Assessment, species assemblage, northeast U.S. shelf

Theme Session E

Stocks in flux: From selection pressures via phenotypic and genetic adaptive responses to impacts on ecosystem services

Conveners: Ulf Dieckmann (IIASA), Mikko Heino (Norway), and Filip Volckaert (Belgium)

Agenda and Orders of the Day for:

Tuesday 16 September 2014, 17:30–19:30 – Arao
Wednesday 17 September 2014, 09:00–13:00 – Arao

- | | |
|------------------------------|-------|
| 1) Opening and introduction | 17:30 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM Code	Time
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TUESDAY 16 SEPTEMBER 2014, 17:30–19:30 – Arao

E: 01 Oral	Title:	Understanding the causes of maturation shifts in gadoid populations	17:40
	Authors:	Peter J. Wright, Stephen C.F. Palmer and Declan Tobin	
	Keywords:	Maturation; temperature effects; individual-based modelling; fisheries-induced evolution	
E: 02 Oral	Title:	How strong is fisheries-induced selection? An assessment of selection differentials caused by fishing	17:55
	Authors:	Shuichi Matsumura, Mikko Heino, Bruno Ernande, Adriaan Rijnsdorp, Ulf Dieckmann, and the WGEVO participants	
	Keywords:	fisheries-induced evolution, fisheries management, growth, phenotypic plasticity, probabilistic maturation reaction norm, selection differential, reproductive investment	
Poster presentations			
E: 03 Poster	Title:	Population diversity and structure in <i>Lipophrys pholis</i> (Blenniidae, Teleostei) in Central Portugal, variation across a decade	18:10
	Authors:	Sara Francisco and Joana I. Robalo	
	Keywords:	rock intertidal, population genetics, temporal variation	
E: 04 Poster	Title:	Inferring natal homing behavior in Atlantic mackerel (<i>Scomber scombrus</i> L.) through population genomics: implications for stock assessment	18:12
	Authors:	Naiara Rodriguez-Ezpeleta, Paula Álvarez, Unai Cotano, and Xabier Irigoien	
	Keywords:	mackerel, population genomics, natal homing, stock assessment	

E: 05 Poster	Title: Evidence of local adaptation in European anchovy (<i>Engraulis encrasicolus</i> , L) from the Bay of Biscay	18:14
	Authors: Iratxe Montes, Iratxe Zarraindia, Mikel Iriando, Carmen Manzano, Darrell Conklin, Unai Cotano, W. Stewart Grant, Xabier Irigoien, and Andone Estonba	
	Keywords: SNP, population genetics, divergent selection, salinity, ecotypes, ecological speciation	
E: 06 Poster	Title: How strong is fisheries-induced selection? A general framework for estimating fisheries-induced selection differentials	18:16
	Authors: Mikko Heino, Bruno Ernande, Shuichi Matsumura, Adriaan Rijnsdorp, Ulf Dieckmann, and the WGEVO participants	
	Keywords: fisheries-induced evolution, fisheries management, growth, phenotypic plasticity, probabilistic maturation reaction norm, selection differential, reproductive investment	
E: 07 Poster	Title: Population structure of ling (<i>Molva molva</i>) in the Northeast Atlantic and its implications for stock assessments and management advice	18:18
	Authors: Enrique Blanco Gonzalez, Halvor Knutsen, Per Erik Jorde, Kevin Alan Glover, and Odd Aksel Bergstad	
	Keywords: population structure, microsatellite, fishery management, gadidae	
E: 08 Poster	Title: A genetic multi marker approach to estimate spatial and temporal structuring and Ne of albacore (<i>Thunnus alalunga</i>)	18:20
	Authors: Urtzi Laconcha, Haritz Arrizabalaga, and Andone Estonba	
	Keywords: albacore, single nuclear polymorphisms, stock delimitation, effective population size	
E: 09 Poster	Title: Genetic structure and population dynamics of wreckfish (<i>Polyprion americanus</i>) in the North Atlantic	18:22
	Authors: Alfonso Pita, Nedra R. Matusse and Pablo Presa	
	Keywords: wreckfish, <i>Polyprion americanus</i> , microsatellites, worldwide distribution	
E: 10 Poster	Title: Temporal variation of the pseudo-selective transcribed spacer ITS1-rDNA in the Atlantic hake population (<i>Merluccius merluccius</i>)	18:24
	Authors: Alfonso Pita, Montse Pérez, José Cuellar and Pablo Presa	
	Keywords: <i>Merluccius merluccius</i> , ITS1, molecular network, fishery evolution	
E: 11 Poster	Title: An evolutionary explanation of female-biased sexual size dimorphism in North Sea plaice, <i>Pleuronectes platessa</i> L.	18:26
	Authors: Fabian M. Molle, Katja Enberg, David S. Boukal, Adriaan D. Rijnsdorp, and Ulf Dieckmann	
	Keywords: life-history evolution, female-biased sexual size dimorphism, energy allocation, growth, maturation, reproductive investment	

E: 12 Poster	Title: A non-lethal approach identifies ontogenetic shifts in d15N signatures in fin rays of Goliath Grouper, <i>Epinephelus itajara</i>	18:28
	Authors: Orian Tzadik	
	Keywords: goliath grouper; ontogeny; isotope chronologies; trophic shifts	
E: 13	<i>Withdrawn</i>	
	Discussion	18:30

WEDNESDAY 17 SEPTEMBER 2014, 09:00–13:00 – Arao

E: 14 Oral	Title: Latitudinal variation in female sole (<i>Solea solea</i>) life-history strategy in the Northeast Atlantic	09:00
	Authors: Bruno Ernande, Fabian M. Mollet, Georg H. Engelhard, Anssi Vainikka, Ane T. Laugen, and Adriaan D. Rijnsdorp	
	Keywords: latitudinal gradient, thermal gradient, life-history, phenotypic plasticity, local adaptation, counter-gradient genetic variation, evolution, climate change	
E: 15 Oral	Title: A simulation approach to managing isolation-by-distance stock structure in marine fish, Pacific cod and blackspotted rockfish: Where do we draw the line?	09:15
	Authors: Ingrid Spies, Paul Spencer, and André E. Punt	
	Keywords: Fisheries management, isolation-by-distance, ecosystem services	
E: 16 Oral	Title: Lack of parallelism between the phenotypic drift of overexploited fisheries and their neutral genetic variation	09:30
	Authors: J. Cuéllar-Pinzón and P. Presa	
	Keywords: overexploited fisheries, phenotypic drift, genetic erosion	
E: 17 Oral	Title: The evolutionary effect of fishing pressure on <i>Sardinella aurita</i> population's spatial distribution off North-West Africa investigated with an individual based biophysical model	09:45
	Authors: Timothée Brochier, Pierre-Amaël Auger, Laure Pecquerie, Eric Machu, Baye Cheikh Mbaye, Modou Thiaw, and Patrice Brehmer	
	Keywords: fisheries-induced evolution, North-West African Upwelling System, small pelagic fish, <i>Sardinella aurita</i> , fish migration	
BREAK		
E: 18 Oral	Title: Behavioural differences between experimental populations of guppies (<i>Poecilia reticulata</i>) that experienced size-selective fishing	10:30
	Authors: Beatriz Diaz Pauli, Anne Christine Utne-Palm, Joan Sala, Martin Wiech, and Mikko Heino	
	Keywords: size-selective fishing, behaviour, mating, boldness, experiment, <i>Poecilia reticulata</i>	
E: 19 Oral	Title: Evolutionary and ecological consequences of fisheries-induced selection of behavioural types	10:45
	Authors: Lise Marty and Ken H. Andersen	
	Keywords: Behaviour, selectivity, fisheries-induced evolution	

E: 20 Oral	Title: Changes in age and size at maturation of Northeast Arctic cod are driven by the interplay between environmentally-induced phenotypic plasticity and fisheries-induced selection	11:00
	Authors: Mikko Heino, Olav Rune Godø, and Ulf Dieckmann	
	Keywords: cod, density-dependent growth, fisheries-induced evolution, fisheries management, phenotypic plasticity, probabilistic maturation reaction norm	
E: 21 Oral	Title: Phenotypic and genetic changes in life history traits in experimental populations of guppies (<i>Poecilia reticulata</i>) that experienced size-selective fishing	11:15
	Authors: Beatriz Diaz Pauli, Heikki Savolainen, Anne Christine Utne-Palm, Diep Mach Ellertsen, David Reznick, and Mikko Heino	
	Keywords: size-selective fishing, maturation schedule, phenotypic change, genetic change, experiment, <i>Poecilia reticulata</i>	
E: 22 Oral	Title: Influence of gear selectivity on maturation evolution and yield	11:30
	Authors: Fabian Zimmermann and Christian Jørgensen	
	Keywords: fisheries management, fishing-induced evolution, size-selective fishing, gear selectivity	
E: 23 Oral	Title: Evolutionary impact assessment of the North Sea plaice fishery	11:45
	Authors: Fabian M. Mollet, Jan Jaap Poos, Ulf Dieckmann, and Adriaan D. Rijnsdorp	
	Keywords: n.a.	
E: 24 Oral	Title: Economic repercussions of fisheries-induced evolution	12:00
	Authors: Anne Maria Eikeset, Andries Richter, Erin S. Dunlop, Ulf Dieckmann, and Nils Chr. Stenseth	
	Keywords: Atlantic cod, genetic adaptations, harvest control rule, marine governance, adaptive management	
E: 25 Oral	Title: Molecular genetic evidence for fisheries-induced evolution in the North Sea stock of sole	12:15
	Authors: Eveline Diopere, Gregory E. Maes, Bruno Ernande, Bart Hellemans, Fabian Mollet, Adriaan D. Rijnsdorp, and Filip A.M. Volckaert	
	Keywords: evolution, fisheries, genomics, quantitative genetics, sole	
E: 26 Oral	Title: Fisheries-induced neutral and adaptive evolution and consequences for adaptive potential	12:30
	Authors: Lise Marty, Ulf Dieckmann, and Bruno Ernande	
	Keywords: fisheries-induced evolution, life-history traits, eco-genetic model, genetic drift, selection, genetic markers, effective population size, genetic erosion	
	Closing Discussion	12:45
	End of session	13:00

Theme Session F

Arctic biodiversity under climate change and other stressors

Conveners: Sarah Bailey (Canada), Phillippe Archambault (Canada),
and Andrea Sneekes (the Netherlands)

Agenda and Order of the Day for:

Tuesday 16 September 2014, 17:00–19:30 – Modular Room 6

- 1) Opening and introduction 17:00
- 2) Appointment of rapporteur
- 3) Presentation of papers

CM Code		Time
F: 01	Title: Non-native species risks to the Arctic	17:15
Oral	Authors: Sarah Bailey, Anders Jelmert, Dan Minchin, and Andrea Sneekes	
	Keywords: aquatic invasive species, non-indigenous species, vector management	
F: 02	Title: Is the Canadian Arctic likely to be invaded by aquatic invasive species? A niche modelling study under various climate change scenarios	17:30
Oral	Author: Jesica Goldsmit, Kimberly Howland, Guillem Chust, and Philippe Archambault	
	Keywords: Arctic, aquatic invasive species, niche modelling, climate change	
F: 03	Title: Evaluating temperature effects on the efficacy of ballast water treatments to prevent non-indigenous introductions into the Canadian Arctic.	17:45
Oral	Authors: Oscar Casas-Monroy, Robert D. Linley, and Sarah Bailey	
	Keywords: Canadian Arctic, biological invasion, ballast water treatment, plankton invasive species	
F: 04	Title: Snow crab (<i>Chionoecetes opilio</i>): a new invasive crab species becoming an important player in the Barents Sea ecosystem.	18:00
Oral	Authors: Jan H. Sundet and S. Bakanev	
	Keywords: non-native species, snow crab, Barents Sea, arctic	
F: 05	Title: Functional redundancy of Barents Sea fish	18:15
Oral	Authors: Magnus Aune Wiedmann, Michaela Aschan, Michael Greenacre, Andrey Dolgov, and Raul Primicerio	
	Keywords: Barents Sea, fish, functioning, redundancy	

F: 06 Oral	Title: Shape analysis provides information on functional traits and diversity of Barents Sea fish	18:30
	Authors: Charlotte Weber, Magnus Wiedmann, Michaela Aschan, and Raul Primicerio	
	Keywords: Functional biodiversity, landmarks, morphometrics, Barents Sea fish community	
Posters		
F: 07 Poster	Title: Arctic climate and the main commercial fish stocks	18:45
	Author: Oleg Bulatov	
	Keywords: walleye pollock, pacific cod, Greenland halibut, temperature, Atlantic Multi-Decadal Oscillation	
F: 08 Poster	Title: A new method to extract time series features in different scales with application to the analysis of sea temperature variation in Norwegian and Barents sea	18:47
	Authors: Päivi Laukkanen-Nevala, Leena Pasanen, Ilkka Launonen, Ann Kristin Østrem, Sergey Prusov, Lasse Holmström, and Eero Niemelä	
	Keywords: Arctic sea temperature, climate change, simulation, time series, visualization	
F: 09 Poster	Title: Mackerel feed different from cod in the high Arctic	18:49
	Authors: Jørgen Berge, Kristin Heggland, Ole Jørgen Lønne, Finlo Cottier, Haakon Hop, Geir Wing Gabrielsen, and Ole Arve Misund	
	Keywords: mackerel, cod, diet, high Arctic	
F: 10 Poster	Title: Changes in, and impacts of, fish distributions in the Barents Sea	18:51
	Authors: Daniel Howell, Harald Gjørseter, and Bjarte Bogstad	
	Keywords: Climate change, population distribution, Barents Sea, Kara Sea	
F: 11 Poster	Title: Ballast water treatment at low temperatures: An important limiting condition	18:53
	Authors: N. H. B. M. Kaag and A. C. Sneekes	
	Keywords: ballast water treatment, biocides, limiting conditions, Arctic	
	Closing discussion	18:55
	End of session	19:30

Theme Session G

Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments

Conveners: Gavin Fay (USA), Eva-Lotta Sundblad (Sweden), Scott Large (USA),
and David Goldsborough (the Netherlands)

Agenda and Orders of the Day for:

Tuesday 16 September 2014, 10:30–19:30 – Gaviota
Wednesday 17 September 2014, 09:00–13:00 – Gaviota
Thursday 18 September 2014, 10:30–17:30 – Gaviota

- | | |
|------------------------------|-------|
| 1) Opening and introduction | 10:30 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM		Time
Code		
TUESDAY 16 SEPTEMBER 2014, 10:30–19:30 – Gaviota		
G: 01 Oral	Title: Structuring Societal Information for the Marine Strategy Framework Directive	10:35
	Authors: Anders Grimvall, Eva-Lotta Sundblad, and Lena Gipperth	
	Keywords: Marine Strategy Framework Directive, actors, behaviour, programmes of measures	
G: 02 Oral	Title: Social Indicators of Fishing Community Vulnerability and Resilience: An Emergent Method for Fisheries Social Impact Assessment in the United States	10:50
	Authors: Lisa L. Colburn and Michael Jepson	
	Keywords: social indicators, social vulnerability and fisheries social impact assessment	
G: 03 Oral	Title: Social Objectives and Indicators in Australian Fisheries Management Plans	11:05
	Authors: Kate Brooks	
	Keywords: social objectives, social indicators, ESD, triple-bottom-line assessment, national guidelines, fisheries management	
G: 04 Oral	Title: Social indicators of community-level vulnerability for the West Coast	11:20
	Authors: Karma Norman, Stacey Miller, Kristin Hoelting, and Stephen Kasperski	
	Keywords: ecosystem management, California Current communities, social indicators	

G: 05 Oral	Title: Actor-oriented societal indicators of man-made eutrophication of marine environments	11:35
	Authors: Eva-Lotta Sundblad, Anders Grimvall, and Lena Gipperth	
	Keywords: societal indicators, actors, behaviour, Marine Strategy Framework Directive	
G: 06 Oral	Title: Understanding artisanal fishery reality of Fonseca's Golf: socio-economic indicators and technical advice for a basic management	11:50
	Authors: Duarte Fernández-Vidal, Ana Tubío, Diana Fernández-Márquez, and Ramón Muiño	
	Keywords: social-economic indicators, participatory methods, artisanal fisheries, management, technical advice, LEK	
G: 07 Oral	Title: Economic dependence of fishing species in Galician and Cantabrian area (NW and N of Spain) – Socioeconomic indicators	12:05
	Authors: I. González Herraiz, P. Sampedro Pastor, J. Castro Pampillón, M. Marín González, A. C. Fariña Pérez, and D. Garabana Barro	
	Keywords: fishing activity, socioeconomic indicators, Galicia, Cantabrian Sea, Spain	
G: 08 Oral	Title: Combining Indicators for Policy Implementation? Let Form Follow Function	12:20
	Author: Jake Rice	
	Keywords: ecosystem indicators, management objectives, risk management, integration	
G: 09 Poster	Title: Assessing the ecological footprint of commercial fisheries using a spatially explicit semi-quantitative risk assessment for New Zealand deepwater fish stocks	12:35
	Authors: Charles Edwards and Alistair Dunn	
	Keywords: by-catch, deepwater, swept-area, risk, impact assessment	
G: 10 Oral	Title: An evaluation of the use of the Traditional Ecological Knowledge of the fishers in the management of their fisheries: the case of the Galician purse seine fleet	12:36
	Authors: Pablo Pita, Duarte Fernández-Vidal, and Ramón Muiño	
	Keywords: Purse seine, log-book, data-logger, TEK, mapping	
G: 12 Poster	Title: The times they are a-changin': the radical and successful transformation of the artisanal shellfisheries in Galicia	12:51
	Authors: Gonzalo Macho, Sebastián Villasante, Inés Naya, Juan Freire, Emilio Abella, José Manuel Parada, Antonio García-Allut, Ricardo Arnaiz, Elsa Vázquez, José María da Rocha, Jose Alberto de Santiago, Ana Parma, Jose Lobo Orensanz, and José Molaes	
	Keywords: small-scale fisheries governance, community-based management, co-management, territorial tenure rights	
G: 13 Poster	Title: A Generic Matrix tool for identifying key regional pressure-impact links in marine management	12:52
	Authors: O. Kryvenko, T. Churilova, V. Suslin, K. Mazik, S. Barnard, K. N. Papadopoulou, C. J. Smith, S. Moncheva, J. Patricio, K. C. Bisel, O. Solaun, M. Elliott, and A. Borja	
	Keywords: pressure assessment, biodiversity, marine management, MSFD	

G: 14 Poster	Title: Impact of management measures, fish prices and stock abundance in the fleet dynamics of the otter-trawlers operating in Galician-Cantabrian Sea fishing ground	12:53
	Authors: M. P. Sampedro, I. González Herraiz, A. C. Fariña, J. Castro, and D. Garabana	
	Keywords: fleet dynamics, Cantabrian Sea, fish price, management measures, stock abundance	
G: 15	<i>Withdrawn</i>	
	Discussion	12:54
LUNCH		
G: 16 Oral	Title: Using Performance Indicators to Evaluate U.S. Fisheries	15:00
	Authors: Ayeisha Brinson and Eric Thunberg	
	Keywords: catch shares, performance indicators, economics	
G: 17	<i>Withdrawn</i>	
G: 11 Oral	Title: Propagation of Uncertainties in Fisheries Science for Advice: the case for Confidence Interval Harvest Control Rules (CI-HCRs)	15:15
	Authors: Dorothy J. Dankel, Sondre Aanes, and Jon Helge Vølstad	
	Keywords: stock assessment, harvest control rules, confidence intervals, uncertainty communication, hidden uncertainties, unknown knowns, science for policy advice, fisheries models, technoscience, technofeminism	
G:18 Oral	Title: Fuel use in fishing – an important indicator for sustainable fisheries	15:30
	Authors: F. Ziegler and S. Hornborg	
	Keywords: LCA, fuel use, fisheries management, trawling	
G: 19 Oral	Title: Using Bayesian belief networks to disclose interactions between small-scale fisheries and offshore aquaculture developments off south-east Portugal	15:45
	Authors: Jorge Ramos, Miguel Neves dos Santos, and Miguel Caetano	
	Keywords: Bayesian belief networks (BBN), fishing communities, offshore aquaculture, small-scale fishermen, socioeconomic indicators	
G: 20 Oral	Title: Towards a Shark and Ray Management Plan for the North Sea : the role of stakeholder participation	16:00
	Authors: P. A. Walker, I. Kingma, and M. van de Water	
	Keywords: sharks and rays; MSFD; stakeholder participation; management plan	
	Discussion	16:15
BREAK		
G: 21 Oral	Title: Providing advice in small-scale fisheries: The key role of the “Barefoot Fisheries Advisors” in the Co-managed TURF system of Galicia	17:00
	Authors: Gonzalo Macho, Inés Naya, Juan Freire, Sebastián Villasante, and José Molares	
	Keywords: Barefoot Fisheries Advisors, small-scale fisheries, co-management, scientific advice, knowledge collectors and translators	

G: 22 Oral	Title: Practical application of food web indicators in a fisheries context	17:15
	Authors: Stuart Rogers, Jason Link, and Mark Dickey-Collas	
	Keywords: food web, structure, function, resilience	
G: 23 Oral	Title: Environmental impacts of a demersal freeze trawler on a fishing trip basis	17:30
	Authors: F. Ziegler, E. Groen, S. Hornborg, E. Bokkers, K. M. Karlsen, and I. J. M. de Boer	
	Keywords: LCA, fuel use, fisheries management, trawling	
G: 24 Oral	Title: Spatio-temporal biodiversity indicators for monitoring common objectives of the German Maritime Spatial Plan and the Marine Strategy Framework Directive	17:45
	Authors: Henrike Seidel and Vanessa Stelzenmüller	
	Keywords: ecological indicators, spatio-temporal analysis, biodiversity, functional traits analysis, demersal finfish, marine spatial planning, MSFD, policy objectives	
G: 25 Oral	Title: The Large Fish Indicator in North Sea waters: Does it respond to the recent decline in fishing?	18:00
	Authors: Antonios Stamoulis, Hans Polet, Els Torreele, and Adriaan D. Rijnsdorp	
	Keywords: indicators, Large Fish Indicator (LFI), MSFD, North Sea, EAFM, demersal fish community	
G: 26	<i>Withdrawn</i>	
G: 27 Oral	Title: How to be "good" – Comparing methods to assess time series of ecological indicators	18:15
	Author: Wolfgang Nikolaus Probst	
	Keywords: indicator assessment; ecological indicator, time series analysis, trend-based assessment, breakpoint analysis	
G: 28 Oral	Title: Incorporating ecological and societal indicators to identify ecosystem reference points in response to multiple pressures	18:30
	Authors: Scott I. Large, Gavin Fay, Kevin Friedland, and Jason S. Link	
	Keywords: ecosystem thresholds, EBFM, gradient forest, The IndiSeas Project	
G: 29 Oral	Title: Detection of unique multispecies demersal-fish communities in high-diversity systems and modeling the impact of environment on their stability	18:45
	Authors: Joshua P. Kilborn, David L. Jones, and Ernst B. Peebles	
	Keywords: multispecies community dynamics, environmental drivers, minimum spanning tree, dissimilarity profile, groundfish trawl survey	
	Discussion	19:00

WEDNESDAY 17 SEPTEMBER 2014, 09:00–13:00 – Gaviota

G: 30 Oral	Title: Ecosystem models for fisheries management: finding the sweet spot	09:00
	Authors: Jeremy S. Collie, Louis W. Botsford, Alan Hastings, Isaac C. Kaplan, John L. Largier, Patricia A. Livingston, Éva Plagányi, Kenneth A. Rose, Brian K. Wells, and Francisco E. Werner	
	Keywords: ecosystem-based management, fisheries, marine, model complexity, trade-off	
G: 31 Oral	Title: Use and advice on incorporating ecosystem indicators In the stock assessment of North Atlantic swordfish	09:15
	Author: Michael J. Schirripa	
	Keywords: swordfish, stock assessment, ecosystem indicators, advice considerations	
G: 32 Oral	Title: Evaluating projection methodology for Northwest Atlantic groundfish with consideration of biological assumptions and environmental influence	09:30
	Authors: E. N. Brooks and C. M. Legault	
	Keywords: Retrospective forecast, projection methodology, projection time horizon, environmental driver	
G: 33 Oral	Title: A state-space age-structured assessment model that accommodates environmental effects on demographic parameters and biological reference points	09:45
	Authors: Timothy J. Miller and Saang-Yoon Hyun	
	Keywords: space models, stock assessment, environmental effects	
BREAK		
G: 34 Oral	Title: Moving towards multi species/integrated management	10:30
	Authors: Rosa Mato Amboage, José-María Da-Rocha, and Santiago Cerviño	
	Keywords: mixed fisheries, harvesting control rules, overfishing risk	
G: 35 Oral	Title: Simple As Necessary approach to the Baltic Sea holistic assessment	10:45
	Authors: Oleg P. Savchuk and Maciej T. Tomczak	
	Keywords: Baltic Sea, fishery and eutrophication, modeling	
G: 36 Oral	Title: Incorporating species interactions in a statistical catch-at-age model of the Georges Bank fish community	11:00
	Authors: Kiersten L. Curti, Jeremy S. Collie, Christopher M. Legault, and Jason S. Link	
	Keywords: multispecies model, ecosystem approach to fisheries, population dynamics	

G: 37 Oral	Title: Reading the crystal ball: using multi-species stock-assessment models to predict climate-driven changes to recruitment, mortality, and biological reference points for Bering Sea (USA) fisheries	11:15
	Authors: Kirstin K. Holsman, Kerim Aydin, James Ianelli, Anne Hollowed, and Albert Hermann	
	Keywords: Climate change, multi-species, stock assessment models, predator-prey, trophic interactions, Alaska, groundfish	
	Discussion	11:30
G: 38 Oral	Title: Towards operational assessments: selection, vetting, and standardized analysis of ecosystem indicators for the Northeast US Large Marine Ecosystem	11:45
	Authors: S.Gaichas, J. Link, J. Hare, M. Fogarty, P. Pinto da Silva, G. DePiper, J. Cournane, J. Manderson, S. Lucey, M. Lowe, S. Large, and G. Fay	
	Keywords: ecosystem indicators, integrated ecosystem assessment, risk assessment, Northeast US Large Marine Ecosystem	
G: 39 Oral	Title: Environmental risk assessments in the context of marine spatial management: Current approaches and some perspectives from the German EEZ of the North Sea	12:00
	Authors: V. Stelzenmüller, H. O. Fock, A. Gimpel, H. Seidel, R. Diekmann, W. N. Probst, U. Callis, F. Bockelmann, H. Neumann, and I. Kröncke	
	Keywords: Bayesian believe network, disturbance indicator, fishing frequency, GIS, marine spatial planning	
G: 40 Oral	Title: Broadening the perspective on fisheries management actions: assessing resource use and environmental impacts from seafood products	12:15
	Authors: Sara Hornborg and Friederike Ziegler	
	Keywords: LCA, sustainable development, fuel use, fisheries management	
G: 41 Oral	Title: Evaluation of spatial management scenarios supporting an ecosystem-based approach to MSP – the German case	12:30
	Authors: Antje Gimpel and Vanessa Stelzenmüller	
	Keywords: geographic information system-based multi criteria evaluation (GIS MCE), German EEZ, marine spatial planning (MSP), spatial management scenario, species distribution model (SDM)	
	Discussion	12:45

THURSDAY 18 SEPTEMBER 2014, 10:30–17:30 – Gaviota

G: 42 Oral	Title: Investigating spatial and demographic indicator-based Harvest Control Rules for the Eastern English Channel mixed fisheries	10:30
	Authors: Sigrid Lehuta, Paul Marchal, and Youen Vermard	
	Keywords: harvest control rules, spatial indicators, demographic indicators, simulation study, mixed fishery, Eastern Channel	

G: 43 Oral	Title: Management performance of ecological indicators in the Northeast US: evaluation using a whole-of-system model	10:45
	Authors: Gavin Fay, Jason S. Link, Robert J. Gamble, Rebecca Gorton, Scott I. Large, and Elizabeth A. Fulton	
	Keywords: management strategy evaluation, Atlantis, ecosystem-based fisheries management, Northwest Atlantic, ecosystem modeling	
G: 44 Oral	Title: A multi-model evaluation of ecosystem indicators' performance	11:00
	Authors: Yunne-Jai Shin, Jennifer Houle, Sylvain Bonhommeau, Alida Bundy, Marta Coll, Lynne Shannon, Laure Velez, Ekin Akoglu, Caihong Fu, Beth Fulton, Clément Garcia, Arnaud Grüss, Chris Lynam, Ricardo Oliveros, and Baris Salihoglu	
	Keywords: ecosystem indicators, ecosystem models, indicator performance, fishing and climate effects	
G: 45 Oral	Title: Designing stable management strategies: linking ecosystem biodiversity, catches, and stakeholder preferences for stability	11:15
	Authors: José-María Da-Rocha, Javier García Cutrín, María José Gutiérrez, Julia Touza, and Julia Torralba	
	Keywords: stakeholder preferences, biodiversity, HCR	
G: 46 Oral	Title: Translating the stock assessments into socio-economic effects	11:30
	Authors: Jose L. Santiago, Juan C. Surís-Regueiro, and Julia Torralba-Cano	
	Keywords: EAFM, socio-economic effects, input-output, fisheries	
G: 47 Oral	Title: A Bio-economic Model of European Fleets	11:45
	Authors: Griffin Carpenter and Aniol Esteban	
	Keywords: bio-economic model, socio-economic indicators, MSY, ecosystem-based management	
G: 48 Oral	Title: Trading yield against precautionarity and the need for stability in the fishing sector	12:00
	Authors: Mikael van Deurs, Anna Rindorf, Morten Vinther, Henrik Mosegaard, and Lotte Worsøe	
	Keywords: MSE, stability, precautionarity, sandeel, sprat	
G: 49 Oral	Title: Modelling the spatio-temporal interplay between North Sea saithe (<i>Pollachius virens</i>) and multiple fleet segments for management evaluation	12:15
	Authors: Sarah Laura Simons, Ralf Döring, and Axel Temming	
	Keywords: fleet dynamics, socio-economics, spatial structure, stock assessment, population dynamics	
	Discussion	12:30
LUNCH		
G: 50 Oral	Title: Assessing the relative importance of economic valuation, ecological and socio-economic ecosystem indicators: a multi-criteria application to Australian coastal development	15:00
	Authors: Jean-Baptiste Marre, Olivier Thebaud, Sean Pascoe, Sarah Jennings, and Jean Boncoeur	
	Keywords: multi-criteria analysis, Analytic Hierarchy Process, indicators, ecosystem services, coastal development, economic valuation	

G: 51 Oral	Title: Choosing a response when supporting information is contradictory and stakeholders disagree	15:15
	Authors: Deirdre E. Duggan, Keith D. Farnsworth, Sarah B. M. Kraak, Dave G. Reid, and Dorothy J. Dankel	
	Keywords: uncertainty, fisheries science, post-normal science, paradigm shift, communication framework, NUSAP	
G: 52 Oral	Title: Managing ecosystems of the high seas of the Southern Ocean practicing consensus-based decision-making	15:30
	Authors: Jessica Nilsson, Marcus Haward, Elizabeth Fulton, and Craig Johnson	
	Keywords: Antarctica, ecosystem-based management, CCAMLR, by-catch mitigation, Southern Ocean, consensus-based management	
G: 53 Oral	Title: Fish are Normal, Fisheries are Post-Normal: A Post-Normal Science characterization of quantifying uncertainty in datasets by using the NUSAP approach	15:45
	Author: Dorothy J. Dankel	
	Keywords: uncertainty, fisheries science, post-normal science, paradigm shift, communication framework, NUSAP	
G: 54 Oral	Title: Linking information use to societal contexts in ecosystem-based management: knowledge interaction and policy-integration at different scales of EU fisheries governance	16:00
	Authors: Sebastian Linke and Alfred Sandström	
	Keywords: fisheries co-management, information use, knowledge interaction, policy analysis	
	Discussion	16:15
BREAK		
	Discussion / Review paper planning	17:00
	End of session	17:30

Theme Session H
Harmful algal blooms in aquaculture and fisheries ecosystems:
prediction and societal effects

Conveners: Beatriz Reguera (Spain), Juan Blanco (Spain), and Bengt Karlson (Sweden)

Agenda and Orders of the Day for:

Thursday 18 September 2014, 15:00–19:00 – Modular Room 1

Friday 19 September 2014, 09:00–17:00 – Modular Room 1

- 1) Opening and introduction
- 2) Appointment of rapporteur
- 3) Presentation of papers

CM Code	Time
THURSDAY 18 SEPTEMBER 2014, 15:00–19:00 – Modular Room 1	
H: 01	15:00
Title: Distribution and impacts of harmful algal blooms in the ICES area	
Oral	
Authors: B. Reguera, E. Bresnan, J. Martin, P. Tester, and B. Karlson	
Keywords: harmful algal blooms, HAB distribution, socio-economic impacts	
H: 02	15:15
Title: Harmful Algal Blooms and their impacts on bivalve molluscs	
Oral	
Authors: H. Hegaret, C. Fabioux, C. Lambert, H. Haberkorn, M. Lassudrie, A. Lelong, and P. Soudant	
Keywords: HABs, bivalve, fisheries, aquaculture	
H: 03	15:30
Oral	
Title: Assessing the behavioral toxicity of a globally expanding harmful dinoflagellate, <i>Cochlodinium polykrikoides</i> , to estuarine forage fish	
Authors: Konstantine J. Rountos, Ellen K. Pikitch, and Christopher J. Gobler	
Keywords: Harmful algal blooms, forage species, toxicity	
H: 04	15:45
Oral	
Title: Diarrhetic Shellfish Toxins in blue mussels (<i>Mytilus edulis</i>) in Sweden: Experiences from monitoring of the toxins and <i>Dinophysis</i> spp., the causative organisms	
Authors: B. Karlson, M. Johansen, and M. Persson	
Keywords: Aquaculture, Mussel farming, Blue mussels, <i>Mytilus edulis</i> , Phytoplankton, Harmful Algal Blooms, Dinoflagellates, <i>Dinophysis</i>	
H: 05	16:00
Oral	
Title: Effect of industrial process for canning on okadaic acid toxins detection/quantification by different techniques	
Authors: Angeles Moroño, Fabiola Arévalo, J. Correa, M. Corina Porro, Ana G Cabado, Juan M. Vieites, and Juan Blanco	
Keywords: okadaic acid, dinophysistoxin 2, LC-MS/MS, Mouse Bioassay, phosphatase inhibition, industrial steaming, canning, DSP toxicity	

H: 06 Poster	Title: Potentially toxic cyanobacteria in winter plankton of the Curonian Lagoon, Baltic Sea	16:15
	Author: Eugenia Lange	
	Keywords: Curonian Lagoon, winter phytoplankton, toxic cyanobacteria	
H: 07 Poster	Title: Toxicity of coastal water in the Curonian Lagoon, Baltic Sea during autumn HAB, 2013	16:20
	Authors: Elena Ezhova, Natalia Molchanova, and Julia Polununa	
	Keywords: Curonian Lagoon, <i>Daphnia magna</i> , microcystins, neurotoxins, paralysis	
H: 08 Poster	Title: Bioaccessibility and changes on cylindrospermopsin concentration in edible mussels over storage and processing time	16:25
	Authors: Marisa Freitas, Joana Azevedo, Vera Mendes, Bruno Manadas, Alexandre Campos, António Paulo Carvalho, and Vitor Vasconcelos	
	Keywords: Bioaccessibility, cylindrospermopsin, food storage, food processing, <i>in vitro</i> human digestion	
BREAK		
H: 09 Oral	Title: Azaspiracids and their producing organisms	17:00
	Authors: Bernd Krock and Urban Tillmann	
	Keywords: Azaspiracid shellfish poisoning (AZP), Azadinium, Amphidoma	
H: 10 Oral	Title: Current knowledge and perspectives of study on benthic toxic dinoflagellates of the genus <i>Gambierdiscus</i> in the Canary Islands	17:15
	Authors: F. Rodríguez, S. Fraga, P. Riobó, and JM. Franco	
	Keywords: <i>Gambierdiscus</i> , benthic dinoflagellates, ciguatera, Canary Islands	
H: 11 Oral	Title: Occurrence of harmful phytoplankton species in Moroccan Atlantic Shellfish areas during 2003–2013	17:30
	Authors: A. Bennouna, J. EL Attar, R. Abouabdelah, MT. Moita, A. Penna., BP. Oliveira, and S. Palma	
	Keywords: Phytoplankton, <i>Ostreopsis</i> , karenia, Dinophysis, Alexandrium, <i>Pseudo-nitzschia</i> , upwelling, Atlantic Moroccan coasts	
H: 12 Oral	Title: Emergent marine toxins in the temperate north Atlantic coast	17:45
	Authors: M. Baptista, M. Silva, B. Sabour, M. Hassouani, A. Barreiro, P. Otero, J. Azevedo, A. Alfonso, LM. Botana, and V. Vasconcelos	
	Keywords: BMAA, new vectors, north Atlantic, SPX, TTX	
H: 13 Oral	Title: Structural diversity of ovatoxins in <i>Ostreopsis cf. ovata</i> – AZ strain and their impact on monitoring	18:00
	Authors: R. Rossi, A. Zingone, V. Soprano, and T. Yasumoto	
	Keywords: <i>Ostreopsis cf. ovata</i> , ovatoxins, ESI-LC-TOF	
H: 14 Oral	Title: Overview of activities of the ICES-IOC Working Group on Harmful Algal Bloom Dynamics	18:15
	Author: B. Karlson	
	Keywords: Phytoplankton, Harmful Algal Blooms, HAEDAT Harmful Algae Event Database, aquaculture	

H: 15 Poster	Title: A preliminary study of lipophilic toxins in Galician sediments	18:30
	Authors: E. Martín-Morales, C. Mariño, H. Martín, and J. Blanco	
	Keywords: lipophilic toxins, okadaic acid, 13 desmethyl SPX C, PTX-2, sediments, persistence, Galician coast	
H: 16 Poster	Title: Variability of toxin profile and content of <i>Ostreopsis</i> cf. <i>ovata</i> from the Mediterranean Sea	18:35
	Authors: L. Tartaglione, C. Dell'Aversano, E. Dello Iacovo, P. Ciminiello, S. Casabianca, and A. Penna	
	Keywords: <i>Ostreopsis</i> , ovatoxins, palytoxin, LC-HRMS	
H: 17 Poster	Title: AQUA-USERS: AQUAculture USEr driven operational Remote Sensing information services	18:40
	Authors: Marnix Laanen, Steef Peters, Kathrin Poser, Nils de Reus ¹ , Semhar Ghebrehiwot, Annelies Hommersom, Marieke Eleveld, Peter Miller, Andrey Kurekin, Steve Groom, Olly Clements, Vanda Brotas, Ana Amorim, Ana Brito, Carolina Sá, Åse Åtland, Trine Dale, Kai Sørensen, Anna Birgitta Ledang, Mark Powell, Lars Boye Hansen, Silvia Huber, Lotte Nyborg, Hanne Kaas, Henrik Andersson, John Icely, and Bruno Fragoso	
	Keywords: Aquaculture, water quality, Earth observation, in-situ data, user-driven	
H: 18 Poster	Title: Improving the knowledge of sub-surface temperature, salinity and fluorescence variability patterns on the Southern Coast of Galicia	18:45
	Authors: E. Tel, JM. Cabanas, G. Gonzalez-Nuevo, and A. Cabrero	
	Keywords: thermosalinometer, variability, inlets, interpolating	
H: 19 Poster	Title: Real Time Monitoring and Alert System to forecast Harmful Algal Blooms (HAB) based on Cyberinfrastructure Technologies	18:50
	Authors: Agustín Monteoliva, Alberto Criado, Lucía López, Analía López, Jesús Torres, Margarita Fernández, and Carles Guallar	
	Keywords: Cyberinfrastructure, real time monitoring, early warning, HAB forecast	

FRIDAY 19 SEPTEMBER 2014, 09:00–17:00 – Modular Room 1

H: 20 Oral	Title: Seeding of <i>Gymnodinium catenatum</i> blooms on the Iberian shelf	09:00
	Authors: Ana Amorim, Rita Nolasco, Paulo B.Oliveira, Teresa Silva, Alexandra Silva, Bernardo Domingues, Vanda Brotas, Jesus Dubert, and M. Teresa Moita	
	Keywords: <i>Gymnodinium catenatum</i> , seed population, Lagrangian model, Regional Ocean Modelling System, Iberia	
H: 21 Oral	Title: Environmental drivers and bloom characteristics of <i>Alexandrium minutum</i> along the French coasts	09:15
	Authors: C. Guallar, T. Hernández-Fariñas, C. Bacher, and A. Chapelle	
	Keywords: <i>Alexandrium minutum</i> , phenology, niche, environmental drivers, multivariate analysis	

H: 22 Oral	Title: Towards forecasting <i>Dinophysis</i> blooms off NW Iberia: a decade of events	09:30
	Authors: M. Teresa Moita, Y. Pazos, C. Rocha, A. Rocha, and P.B. Oliveira	
	Keywords: HABs, alongshore transport, upwelling, DSP	
H: 23 Oral	Title: Trends on <i>Dinophysis acuminata</i> and <i>D. acuta</i> populations in the Galician Rias based on twenty years of weekly monitoring of oceanography and phytoplankton	09:45
	Authors: Y. Pazos, A. Morono, S. Calvo, and B. Reguera	
	Keywords: <i>Dinophysis acuminata</i> , <i>Dinophysis acuta</i> , time series, downwelling, monitoring, Galician Rias	
H: 24 Oral	Title: Harmful algal blooms in the Curonian Lagoon of the Baltic Sea and environmental effects	10:00
	Author: S. Aleksandrov	
	Keywords: algal blooms, eutrophication, Curonian Lagoon	
H: 25 Poster	Title: Conditions associated with unusual summer blooms of <i>Dinophysis acuta</i> in an upwelling area	10:15
	Authors: P. Diaz, B. Reguera, I. Bravo, M. Ruiz-Villarreal, and S. Fraga	
	Keywords: <i>Dinophysis acuta</i> , physical-biological interactions, upwelling, diarrhoetic shellfish poisoning (DSP)	
H: 26 Poster	Title: Dynamics of toxic HABs in the Curonian Lagoon, Baltic Sea during 2010-2013	10:20
	Authors: E. Ezhova, E. Lange, Y. Russkikh, E. Chernova, and Z. Zhekovskaya	
	Keywords: Curonian Lagoon, toxic HAB, cyanotoxins, <i>Microcystis viridis</i> , <i>Aphanisomemon flos-aqua</i>	
H: 27 Poster	Title: Effect of natural and anthropogenic factors on eutrophication and de-eutrophication and algal blooms in the estuaries of different types (by the example of Curonian and Vistula Lagoons and the Volga Delta)	10:25
	Authors: Julia Gorbunova and Sergey Aleksandrov	
	Keywords: eutrophication, algal blooms, estuary, Volga delta, Curonian, Vistula Lagoons	
BREAK		
H: 28 Oral	Title: ASIMUTH, an operational HAB Forecasting System in Ireland	11:00
	Authors: J. Silke, C. Cusack, G. Nolan, K. Lyons, and T. Dabrowski	
	Keywords: Shellfish, Harmful Algal Blooms, toxins, aquaculture, forecasting	
H: 29 Oral	Title: Numerical simulations with the ASIMUTH forecast system for understanding and forecasting HAB events in Galicia (NW Spain)	11:15
	Authors: M. Ruiz Villarreal, L. García, M. Cobas, B. Reguera, and P. Díaz	
	Keywords: HAB Forecast system, along-shore and across-shore transport, <i>Dinophysis acuminata</i> and <i>acuta</i>	
H: 30 Oral	Title: Forecasting Harmful Algal Blooms in a coastal embayment using Artificial Neural Networks	11:30
	Authors: Margarita Fernández-Tejedor, Carles Guallar, Maximino Delgado, and Jorge Diogène	
	Keywords: HAB forecast, Karlodinium, <i>Pseudo-nitzschia</i> , environmental factors, Artificial Neural Networks	

H: 31 Oral	Title: <i>Alexandrium fundyense</i> - <i>Amoebophrya</i> spp. dynamics in a semi enclosed embayment: Implications of sexual reproduction and excystment/encystment strategies on host-parasite coexistence	11:45
	Authors: L. Velo-Suárez, M. Arancio, DJ. McGillicuddy Jr., and M. Sourisseau	
	Keywords: <i>Alexandrium fundyense</i> , <i>Amoebophrya</i> spp., host-parasite interactions, harmful algae blooms, models, refuge strategies.	
H: 32 Oral	Title: Accumulation, biotransformation, ways of excretion and depuration kinetics of DSP toxins in bivalves	12:00
	Author: Juan Blanco	
	Keywords: Diarrhetic shellfish toxins, accumulation, depuration, feces, 7-o-acyl derivatives, biotransformation, excretion way	
H: 33	Withdrawn	
H: 34 Oral	Title: Searching multi-annual and seasonal trends of bivalve toxicity by PSTs in estuarine and littoral areas: the case study of Portugal	12:15
	Authors: Maria João Botelho, Carlos Vale, and João Gomes Ferreira	
	Keywords: Paralytic shellfish toxins, <i>Gymnodinium catenatum</i> , <i>Mytilus</i> spp., <i>Cerastoderme edule</i> , <i>Donax trunculus</i> , <i>Spisula solida</i>	
H: 35 Oral	Title: Estability of okadaic acid, 13-desmethyl SPX and Gymnodimine in Galician coast waters	12:30
	Authors: E. Martín-Morales, C. Mariño, H. Martín, and J. Blanco	
	Keywords: Okadaic acid, 13 desmethyl SPX C, gymnodimine, seawater, sediments, Galician coast, degradation, persistence, cysts	
	Discussion	12:45
LUNCH		
H: 36 Oral	Title: Innovative technologies applied to monitoring of benthic HAB <i>Ostreopsis</i> : an overview of molecular and analytical tool development for <i>in situ</i> characterization of harmful benthic blooms	15:00
	Authors: A. Penna, S. Casabianca, F. Perini, A. Casabianca, C. Dell'Aversano, P. Ciminiello, E. Dello Iacovo, L. Tartaglione, M. Vila, P. Riobò, JM. Franco, and C. Chiantore	
	Keywords: benthic HAB, monitoring, <i>Ostreopsis</i> , palytoxins, qPCR	
H: 37 Oral	Title: Real Time PCR methodologies as a routine monitoring tool for the detection of <i>Pseudo-nitzschia</i> and <i>Azadinium</i> species in Irish waters	15:15
	Authors: Dave Clarke, Rafael Gallardo Salas, and Joe Silke	
	Keywords: Amnesic Shellfish Poisoning, Azaspiracid Shellfish Poisoning, <i>Azadinium</i> , <i>Pseudo-nitzschia</i> , molecular, real time PCR	
H: 38 Oral	Title: Occurrence of lipophilic shellfish toxins (LST) in Scottish lochs: Detection using Solid Phase Adsorption Toxin Tracking (SPATT)	15:30
	Authors: Guillaume Hermann, Krystle Boss, and Jean-Pierre Lacaze	
	Keywords: SPATT, passive sampler, biotoxin, LC-MS	

H: 39 Poster	Title: Phenotypic and genetic correlations for several potentially interacting traits related to DSP toxin accumulation in the Mediterranean mussel (<i>Mytilus galloprovincialis</i>)	15:45
	Authors: A. Pino-Querido, J. Alvarez-Castro, M. Vera, B. G. Pardo, M.A. Toro, J. Regueiro, J. Fuentes, J. Blanco, and P. Martinez	
	Keywords: Diarrhetic shellfish poisoning toxins, okadaic acid, accumulation, depuration, heritability, growth, colour	
H: 40 Poster	Title: The role of <i>Ruditapes philippinarum</i> glutathione transferases in the metabolism of microcystin-LR	15:50
	Authors: Mariana Carneiro, Bruno Reis, Joana Azevedo, Vítor Vasconcelos, and José Carlos Martins	
	Keywords: Microcystins, Glutathione transferases, detoxification, metabolism, <i>R. philippinarum</i>	
H: 41 Poster	Title: Assessment of okadaic acid genotoxicity on cells of the mussel <i>Mytilus galloprovincialis</i>	15:55
	Authors: MV. Prego-Faraldo, V. Valdiglesias, C. Hidalgo, B. Laffon, JM. Eirín-López, and J. Mendez	
	Keywords: okadaic acid, comet assay, genetic integrity, bivalve molluscs, mussels	
H: 42 Poster	Title: Preliminary findings on gene expression study of STXa1 in <i>Alexandrium minutum</i>	16:00
	Authors: F. Perini, L. Galluzzi, C. Dell'Aversano, E. Dello Iacovo, L. Tartaglione, P. Ciminiello, and A. Penna	
	Keywords: HAB, monitoring, <i>Alexandrium</i> , saxitoxin, sxtA, PSP, gene expression	
H: 43 Poster	Title: Glutathione transferases proteomic responses in <i>Mytilus galloprovincialis</i> following exposure to toxic <i>Microcystis aeruginosa</i> cells, extracts and pure toxins	16:05
	Authors: Catarina Caetano, Mariana Carneiro, Joana Azevedo, Alexandre Campos, Vítor Vasconcelos, and José Carlos Martins	
	Keywords: Microcystins, Glutathione Transferases, Proteomics, <i>M. galloprovincialis</i>	
H: 44 Poster	Title: Transcriptional responses of glutathione transferase genes in <i>Ruditapes philippinarum</i> and <i>Mytilus galloprovincialis</i> exposed to microcystin-LR	16:10
	Authors: Bruno Reis, Mariana Carneiro, Joana Azevedo, Vítor Vasconcelos, and José Carlos Martins	
	Keywords: Microcystins, Glutathione Transferases, Gene expression, <i>R. philippinarum</i> , <i>M. galloprovincialis</i>	
H: 45 Oral	Title: Key point of Galicia LBM monitoring program: efficient information dissemination to end users	16:15
	Author: C. Salgado	
	Keywords: LBM, monitoring program, information dissemination, end users	
H: 46 Oral	Title: Baltic Algae Watch System: twelve years of service	16:30
	Authors: J. Öberg and B. Karlson	
	Keywords: Phytoplankton, Harmful Algal Blooms, satellite remote sensing, cyanobacteria	

H: 47 Oral	<p>Title: "PHYCOTOX", from microalgae to the risks for human and ecosystem: a French working network on Harmful Algal Blooms</p> <p>Authors: H. Hégaret, P. Hess, Z. Amzil, R. Araoz, V. Fessard, L. Guillou, E. Michel-Guillou, J. Molgó, and M. Nicolas</p> <p>Keywords: French working network, toxins, ecosystem, socio-economic impacts</p>	16:45
	End of session	17:00

Theme Session I

The increasing importance of biofouling for marine invasions: an ecosystem altering mechanism

Conveners: Andrea Sneekes (the Netherlands), Francis Kerckhof (Belgium),
and Thomas Therriault (PICES)

Agenda and Order of the Day for:

Tuesday 16 September 2014, 18:00–19:30 – Modular Room 1

- 1) Opening and introduction 18:00
- 2) Appointment of rapporteur
- 3) Presentation of papers

CM Code		Time
I: 01 Oral	Title: New developments in non-native species issues associated with biofouling Authors: A.C. Sneekes, F. Kerckhof, H. Ojaveer, L. Brown, J. Canning Clode, C. McKenzie, and D. Minchin Keywords: Biofouling, non-native species, stepping stones, risks	18:05
I: 02 Oral	Title: Succession of marine fouling hydrozoan assemblages at a finfish aquaculture facility in Taranto, Italy Authors: L. Martell, R. Bracale, M. Lezzi, J. E. Purcell, S. Piraino, and F. Boero Keywords: hydroids, alien species, biofouling, jellyfish, finfish aquaculture	18:20
I: 03 Oral	Title: Native and non-native marine biofouling species present on commercial vessels using Scottish dry docks and harbours Authors: Lyndsay Brown and Tracy McCollin Keywords: Biofouling, non-native species, North Sea, Scottish dry docks	18:35
I: 04 Oral	Title: A Study on recreational boating in Atlantic Canada as a Potential Vector for the Introduction and Spread of Non-native Biofouling Species Authors: C. McKenzie, N. Simard, T. Wells, J. Martin, A. Locke, and R. Bernier Keywords: biofouling, non-native species, recreational boating, best practices	18:50
I: 05 Oral	Title: Monitoring biofouling on hard substrata through DNA based approaches Authors: Naiara Rodríguez-Ezpeleta, Iratxe Menchaca, Izaskun Zorita, and Javier Franco Keywords: biofouling, metabarcoding, genomics	19:05

I: 06 Poster	Title: Byssus attachment strength of two mytilids in mono-specific and mixed-species mussel beds	19:20
	Authors: Jose M.F. Babarro and Luc Comeau	
	Keywords: <i>Mytilus galloprovincialis</i> , <i>Limnoperna secures</i> , substrate, salinity, byssus attachment, facilitation	
I: 07 Poster	Title: Knock, knock. Who's there? Searching facilitating habitats for invasive interstitial species	19:22
	Authors: Shea Cameron, Sabine Dittmann, and Peter Fairweather	
	Keywords: monitoring marine pests, facilitation, interstitial fauna, Marine Protected Areas, artificial structures	
	Discussion	19:24
	End of session	19:30

Theme Session J

Climate change: Back to the future for marine predators

Conveners: Tore Haug (Norway), Morten Frederiksen (Denmark), and John Pinnegar (UK)

Agenda and Order of the Day for:

Friday 19 September 2014, 09:00–17:00 – Arao

- 1) Opening and introduction 09:00
- 2) Appointment of rapporteur
- 3) Presentation of papers

CM Code		Time
J: 01 Oral	<p>Title: Impacts of oceanographic change on UK kittiwake productivity</p> <hr/> <p>Authors: Matthew Carroll, Adam Butler, Ellie Owen, Steven Ewing, Tessa Cole, Roddy Mavor, David Johns, Jonathan Green, Louise Soanes, John Arnould, Stephen Newton, Julia Baer, Francis Daunt, Sarah Wanless, Mark Newell, Gail Robertson, and Mark Bolton</p> <hr/> <p>Keywords: black-legged kittiwake, climate change, plankton, sandeels, stratification, temperature</p>	09:10
J: 02 Oral	<p>Title: Ocean warming and evolutionary responses: Life history adaptations in two genetic distinct colour morphs of Common Guillemots</p> <hr/> <p>Authors: Tone Reiertsen, Kjell Einar Erikstad, Mike Harris, Mari Myksvoll, Francis Daunt, Børge Moe, Rob Barrett, Mark Newell, and Sarah Wanless</p> <hr/> <p>Keywords: Climate change, life-history strategies, colour polymorphism, micro-evolution, common guillemot, survival, sea surface temperature</p>	09:30
J: 03 Oral	<p>Title: Ocean Climate Influences on Marine Birds in the Northwest Atlantic</p> <hr/> <p>Authors: W.A. Montevecchi, A.D. Buren, C.M. Burke, G.K. Davoren, S. Garthe, A. Hedd, L. MacFarlane Tranquilla, P.M. Regular, G.J. Robertson, and S. Wilhelm</p> <hr/> <p>Keywords: ocean climate, sea surface temperature, pelagic and forage fishes, marine birds, sea ice, Northwest Atlantic</p>	09:50
J: 04 Oral	<p>Title: Before and after the climate change: some reasons of declining impact of major salt water inflows on cod reproduction in Gotland Basin of the Baltic Sea</p> <hr/> <p>Authors: Elena Karasiova and Alexander Zezera</p> <hr/> <p>Keywords: cod reproduction, major inflows, environmental conditions, seasonal dynamics</p>	10:10
BREAK		

J: 05 Oral	Title: Evaluation of saithe (<i>Pollachius virens</i>) and hake (<i>Merluccius merluccius</i>) potential competition in the North Sea and its potential impact on saithe stock	11:00
	Authors: Xochitl Cormon, Alexander Kempf, Youen Vermard, and Paul Marchal	
	Keywords: saithe, hake, competition, bottom-up processes	
J: 06 Oral	Title: A cascade of warming impacts brings bluefin tuna to Greenland waters	11:20
	Authors: Brian R. MacKenzie, Mark R. Payne, Jesper Boje, Jacob L. Høyer, and Helle Siegstad	
	Keywords: bluefin tuna, Greenland, temperature, climate, mackerel, trophic cascade, predator-prey, food web	
J: 07 Oral	Title: Observations of gadoid feeding by large baleen whales in the Norwegian Sea	11:40
	Authors: Leif Nøttestad, Bjørn A. Krafft, Valentine Anthonypillai, Øyvind Tangen, Lise Langård, and Matteo Bernasconi	
	Keywords: Marine mammals, killer whales, fin- and humpback whales, distribution, ecology, juvenile cod and haddock, Norwegian Sea	
J: 08 Oral	Title: The battle for food in the Barents Sea: Cod vs. marine mammals	12:00
	Authors: Bjarte Bogstad, Harald Gjøsæter, Tore Haug, and Ulf Lindstrøm	
	Keywords: Cod, harp seal, minke whale, Barents Sea, competition	
J: 09 Oral	Title: Marine Mammals Distribution and Numbers in Modern Oceanographic Conditions in the Barents Sea	12:20
	Author: Vladimir Zabavnikov	
	Keywords: marine mammals, the Barents Sea, fish stocks, ecosystem survey, top predators, climate situation	
J: 10 Oral	Title: Generalists and ecosystem change	12:40
	Authors: Sophie Smout, Phil Hammond, Roman Susdorf, Anna Rindorf, and Tor-Arne Oigard	
	Keywords: Foodweb, ecosystem based management, multi-species model, Bayesian, inference, climate change	
LUNCH		
J: 11 Oral	Title: Estimation of common dolphin (<i>Delphinus delphis</i>) biological parameters for the construction of a population dynamic model: an approximation of the mortality-at-age and the influence of the bycatch	15:00
	Authors: Camilo Saavedra, Daniel Howell, Santiago Cerviño, Graham J. Pierce, Fiona Read, and M. Begoña Santos	
	Keywords: top predators, multispecies models, mortality, common dolphin, bycatch	
J:12 Oral	Title: The impact of changing climate on reproduction of northwest Atlantic harp seals, <i>Pagophilus groenlandicus</i>	15:20
	Authors: Garry Stenson, Alejandro Buren, and Mariano Koen-Alonso	
	Keywords: harp seal, <i>Pagophilus groenlandicus</i> , reproductive rates, fecundity, abortions, density dependent, density independent, beta model	

J: 13 Oral	Title: Reproductive parameters of Greenland Sea hooded seal (<i>Cystophora cristata</i>) females 1958–1999 – clues to the lack of population recovery?	15:40
	Author: Anne Kirstine Frie, Vladislav Svetochnev, Garry Stenson, and Tore Haug	
	Keywords: density dependence, age at primiparity, size at primiparity, hooded seals	
	Discussion	16:00
	End of session	17:00

Theme Session K

The application of science for ecosystem-based management of aquaculture

Conveners: Dave Jackson (Ireland), Heather Moore (UK), and Neil Auchterlonie (UK)

Agenda and Order of the Day for:

Thursday 18 September 2014, 17:00–19:00 – Arao

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|------------------------------|-------|
| 1) Opening and introduction | 17:00 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM Code		Time
K: 01 Oral	<p>Title: Sustainable finfish farming on islands – the example from the Faroe Islands</p> <hr/> <p>Authors: Knud Simonsen, Gunnvør á Norði, and Øystein Patursson</p> <hr/> <p>Keywords: management, zonation, fallowing, salmon</p>	17:15
K: 02 Oral	<p>Title: Planning marine space for mussel farming with focus on use of scientific knowledge – Estonian Case Study</p> <hr/> <p>Authors: R. Aps, J. Kotta, V. Lauringson, and K. Oganjan</p> <hr/> <p>Keywords: Maritime Spatial Planning, mussel farming, zebra mussel, Baltic Sea</p>	17:30
K: 03 Oral	<p>Title: Shellfish aquaculture at the confluence of science, policy, and conflicting stakeholder interests: lessons learned from geoduck farming in the northeastern Pacific</p> <hr/> <p>Authors: P.S. McDonald, A.W.E. Galloway, J.L. Price, K. McPeck, D.A. Armstrong, C. Ryan, and G.R. VanBlaricom</p> <hr/> <p>Keywords: shellfish aquaculture, environmental impact, stakeholder conflict</p>	17:45
K: 04 Oral	<p>Title: Estimation of aquaculture carrying capacity in Southeast Asia: needs and capabilities for modelling of common water bodies</p> <hr/> <p>Author: David A. Bengtson</p> <hr/> <p>Keywords: aquaculture, carrying capacity, Asia</p>	18:00
K: 05 Oral	<p>Title: Determining the activity patterns and potential seabed impact of aquaculture: The example of blue mussel culture in Belfast Lough, Northern Ireland</p> <hr/> <p>Authors: Adele Boyd, Annika Clements, Heather Moore, Rhys Cooper, Meredith Scanlon, and Matthew Service</p> <hr/> <p>Keywords: shellfish aquaculture, blue mussels, backscatter, seafloor integrity, ecosystem model, fishing effort, Natura-2000</p>	18:15
K: 06 Oral	<p>Title: A Social-Ecological System (SES) that Integrates Carrying Capacity for the Sustainable Management of Bivalve Aquaculture</p> <hr/> <p>Authors: Carrie Byron</p> <hr/> <p>Keywords: n.a</p>	18:30

K: 07 Poster	Title: Culturing mussels near fish cages, lessons learned towards the future implementation of Integrated Multi-Trophic Aquaculture (IMTA) in the Galician Rías	18:45
	Authors: Jade Irisarri, María José Fernández-Reiriz, and Uxio Labarta	
	Keywords: Integrated Multi-Trophic Aquaculture, effluent bioremediation; mussel, Scope for Growth, growth rate, fatty acid markers	
K: 08 Poster	Title: The dissolution and absorption of two kinds of clay minerals in eutrophic water and corresponding effect of solvents on phytoplankton	18:47
	Authors: Shuxia Liu, Wenli Qin, Shidi Jin, and Ying Ye	
	Keywords: aquaculture, eutrophication, clay mineral, phytoplankton	
K: 09 Poster	Title: Future of farming of <i>Saccharina latissima</i> (Laminariales, Ochrophyta) in land-based IMTA systems in Galicia (NW. Iberia)	18:49
	Authors: P. Touriñán, J.R.C. Freitas , M. Lastres, and J. Cremades	
	Keywords: IMTA, <i>Saccharina latissima</i> , Seaweeds aquaculture, biofilter, nitrogen supplies, climate change	
K: 10 Poster	Title: Dutch policy rules minimize the risk of invasive species distribution by shellfish transports	18:51
	Authors: A.A.J. Smolders and A. Gittenberger	
	Keywords: shellfish transports, marine invasive species, Dutch policy, nuisance species, assessment	
	Discussion	18:53
	End of session	19:00

Theme Session L

Pelagic ecosystem dynamics from integrated monitoring surveys

Conveners: Sascha Fässler (the Netherlands), Jeroen van der Kooij (UK), and Pierre Petitgas (France)

Agenda and Order of the Day for:

Thursday 18 September 2014, 10:30–17:30 – Modular Room 6

- 1) Opening and introduction
- 2) Appointment of rapporteur
- 3) Presentation of papers

CM Code		Time
L: 01 Oral	Title: The PELGAS story: from target species biomass assessment to multidisciplinary pelagic ecosystem monitoring Authors: M. Doray, P. Petitgas, J. Massé, M. Huret, E. Duhamel, P. Bourriau, P. Grellier, C. Dupuy, O. van Canneyt, and G. Dorémus Keywords: integrated monitoring, pelagic ecosystem, Bay of Biscay, indicators	10:30
L: 02 Oral	Title: Using the Atlantic Zone Monitoring Program (AZMP) to develop indices of bio-physical environmental variability in the context of pelagic fish stock assessments in the Gulf of St. Lawrence, Canada Authors: Stéphane Plourde, Peter S. Galbraith, François Grégoire, Ian A. McQuinn, Daniel Duplisea, and Martin Castonguay Keywords: monitoring, Atlantic Zone Monitoring Program, Gulf of St. Lawrence, physical environmental conditions, zooplankton, pelagic fish	10:45
L: 03 Oral	Title: Westward feeding range expansion of Northeast Atlantic mackerel from 2007 to 2013: Effects of temperature, zooplankton abundance and spawning stock size Authors: A. Olafsdottir, K. Utne, J.A. Jacobsen, L. Nottestad, G. Oskarsson, A. Slotte, and Webjorn Melle Keywords: NEA mackerel feeding migration, temperature, zooplankton, spawning stock biomass	11:00
L: 04 Oral	Title: Fine-scale dynamics shape the seascape from zooplankton to seabirds Authors: Daniel Grados, Arnaud Bertrand, François Colas, Sophie Bertrand, Xavier Capet, Alexis Chaigneau, Gary Vargas, Alexandre Mousseigne, and Ronan Fablet Keywords: oxygen minimum zone, Internal waves, submesoscale, zooplankton, fish, seabirds	11:15

L: 05 Oral	Title: Mediterranean biodiversity (from phytoplankton to top predators) and present threats	11:30
	Authors: Gabriel Reygondeau, Camille Albouy, Tarek Hattab, Fabio Benedetti, Jean Olivier Irisson, Sakina Dorothee Ayata, Stephane Gasparini, Brian Mckenzie, Cécile Guieu, and Philippe Koubbi.	
	Keywords: biodiversity, anthropogenic pressures, Mediterranean sea, ecological niche model	
L: 06 Oral	Title: Multidisciplinary acoustic surveys with focus on fishes and plankton: How understanding species interaction can support fish stock assessment and management activity	11:45
	Authors: S. Kasatkina and P. Gasyukov	
	Keywords: multidisciplinary acoustic survey, plankton and fishes, species interaction, stock assessment and TAC	
L: 07 Oral	Title: Evaluating the role of local and basin scale processes in an upwelling ecosystem using time-series observations and biophysical food web modelling	12:00
	Authors: James Ruzicka, Kenneth Brink, Dian Gifford, Frank Bahr, Andrew Beet, Andrew Solow, and William Peterson	
	Keywords: coupled biophysical model, food web, time-series observations	
L: 08 Oral	Title: Improving the quality of ecosystem data time series for integrated assessment in the Baltic Sea	12:15
	Authors: S. Kasatkina and P. Gasyukov	
	Keywords: ecosystem data, monitoring survey, principal components analysis, rebuilding missed observations	
L: 09 Oral	Title: Spatial structure of the Bay of Biscay pelagic ecosystem in spring as revealed by the pelagic survey series PELGAS	12:30
	Authors: Pierre Petitgas, Mathieu Doray, Martin Huret, Christine Dupuy, Olivier van Cannet, and G. Dorémus	
	Keywords: ecosystem monitoring, multi-table analysis, data integration, spatial structure, Bay of Biscay	
	Poster Presentations	12:45
LUNCH		
L: 10 Oral	Title: Effect of zooplankton prey on distribution and abundance of North Sea herring (<i>Clupea harengus</i>) larvae: A long term study	15:00
	Authors: Santiago Alvarez Fernandez, Priscilla Licandro, and Cindy van Damme	
	Keywords: herring, larvae, recruitment, North Sea, Pseudocalanus, zooplankton, SCAI	
L: 11 Oral	Title: Insights on the role of predation in Bay of Biscay anchovy eggs and larvae mortality; development and application of a real-time PCR based assay to potential invertebrate and vertebrate predators	15:15
	Authors: Aitor Albaina, Unai Aldalur, Guillermo Boyra, Unai Cotano, Xabier Irigoien, María Santos, and Andone Estonba	
	Keywords: Predation, <i>Engraulis encrasicolus</i> , Fish eggs, Bay of Biscay, Molecular assay, Stomach contents, <i>Sardina pilchardus</i> , <i>Sprattus sprattus</i> , Macrozooplankton	

L: 12 Oral	Title: Bay of Biscay sound scattering layers composition	15:30
	Authors: Barbara Remond, Mathieu Doray, Anne Lebourges-Dhaussy, Laurent Berger, and Pierre Petitgas	
	Keywords: multi-frequency, classification, ground-truthing data, gas-bearing organisms, forward/inverse method	
L: 13 Oral	Title: Reconstructing of volume densities at several trophic levels by high resolution probing	15:45
	Authors: Egil Ona and Nils Olav Handegard	
	Keywords: probing, broad band acoustics, optics	
L: 14 Oral	Title: Pelagic versus demersal: a process to fully understanding the blue whiting (<i>Micromessistius poutassou</i>) dynamics off the Portuguese coast	16:00
	Authors: Patrícia Gonçalves, António Ávila de Melo, Paulo Fonseca, Inês Cardoso, Alberto Murta, and Henrique Cabral	
	Keywords: blue whiting, survey data, size and sex distribution, demersal vs. pelagic environments, diel variation in abundance	
L: 15 Oral	Title: Integrating acoustic and bottom trawl data to obtain spatial distribution and abundance estimates for semipelagic species	16:15
	Authors: Stan Kotwicki, Patrick H. Ressler, James N. Ianelli, André E. Punt, and John K. Horne	
	Keywords: combined acoustic-bottom trawl survey, semipelagic species, abundance, distribution	
L: 16 Oral	Title: On the way towards using hydroacoustic multifrequency techniques to assess Northeast Atlantic mackerel (<i>Scomber scombrus</i>)	16:30
	Authors: Matthias Schaber, Tim Kirchner, Matthias Kloppmann, Sascha Fässler, Jeroen van der Kooij, and Jens Ulleweit	
	Keywords: target classification, multifrequency hydroacoustic data, mackerel egg survey, daily egg production method	
	Discussion	16:45
	End of session	17:30

POSTERS

L: 17 Poster	Title: Modeling Iberian sardine Early Life Stages dynamics	
	Authors: Luz María García-García, Manuel Ruiz-Villarreal, and Marcos Cobas-García	
	Keywords: hydrodynamic model, biogeochemical model, Lagrangian model, sardine Early Life Stages, recruitment	
L: 18 Poster	Title: Multi-frequency characterization of the 3-dimensional, mesoscale spatial distribution of Biscay sound scattering layers	
	Authors: Barbara Remond, Mathieu Doray, Pierre Petitgas, and Laurent Berger	
	Keywords: classification method, pelagic ecosystem, sensitivity analysis, multi-frequency response, integrated survey	

L: 19 Poster	Title: Variability in <i>Engraulis encrasicolus</i> distribution patterns in the southern Bay of Biscay based on acoustic survey data (1992–2013)
	Authors: Carmen Hernández, B. Villamor, R. González-Quiros, J. Landa, and M.B. Santos
	Keywords: Bay of Biscay, <i>Engraulis encrasicolus</i> , generalized additive models
L: 20 Poster	Title: Pelagic Surveys series for sardine and anchovy in ICES Areas VIII and IX (WGACEGG) 2003–2012 – Towards an ecosystem approach - A Cooperative Research Report
	Authors: Jacques Massé, Andrés Uriarte, Maria Manuel Angelico, and Pablo Carrera
	Keywords: fisheries surveys, survey data products, ecosystem overviews, spatial distributions
L: 21 Poster	Title: Zooplankton distribution during pelagic surveys in Iberian Atlantic waters using image analysis
	Authors: Maria Manuel Angélico, Luís Sobrinho-Gonçalves, Alexandra Silva, and Vitor Marques
	Keywords: zooplankton distribution, image analysis, pelagic surveys
L: 22 Poster	Title: Assessing fish assemblages in the coastal pelagic ecosystem by midwater-pelagic trawls carried out during acoustic surveys
	Authors: Gualtiero Basilone, Marco Barra, Rosalia Ferreri, Simona Genovese, Ignazio Fontana, Giovanni Giacalone, Biagio De Luca, Salvatore Aronica, Salvatore Mazzola, and Angelo Bonanno
	Keywords: water circulation, water temperature, acoustic surveys, fish assemblages, Strait of Sicily
L: 23 Poster	Title: Variation in feeding ecology of small pelagic fish (<i>Trachurus trachurus</i> , <i>Sardina pilchardus</i> and <i>Engraulis encrasicolus</i>) in the Western Basin and central Mediterranean Sea using stable isotope analysis
	Authors: Paola Rumolo, Gualtiero Basilone, Marco Barra, Emanuela Fanelli, Monica Calabrò, Simona Genovese, Serena Gherardi, Biagio De Luca, and Angelo Bonanno
	Keywords: stable isotopes, trophic web, <i>Trachurus trachurus</i> , <i>Sardina pilchardus</i> , <i>Engraulis encrasicolus</i> , Strait of Sicily, northern Tyrrhenian Sea
L: 24 Poster	Title: Geographical variation in the reproductive potential of European anchovy in the central Mediterranean Sea
	Authors: Rosalia Ferreri, Gualtiero Basilone, Angelo Bonanno, Salvatore Aronica, Antonella Gargano, Salvatore Mangano, Antonino Di Maria, and Salvatore Mazzola
	Keywords: <i>Engraulis encrasicolus</i> , histological analysis, reproductive potential, Strait of Sicily, Tyrrhenian Sea
L: 25 Poster	Title: What is the role of Iberian Sardine in the Portuguese pelagic ecosystem?
	Authors: Tiago Malta, Marta Coll, and Alexandra Silva
	Keywords: foodweb, <i>Sardina pilchardus</i> , SURF index

L: 26 Poster	<p>Title: Integrating spatial processes into ecosystem models for sustainable utilization of fish resources</p> <p>Authors: Henn Ojaveer, Stefan Neufeldt, Jan Horbowy, Thorsten Blenckner, Michele Casini, Georgs Kornilovs, Patrick Polte, Christian Möllmann, Eero Aro, Andres Lehmann, Anders Nilsson, and Anders Nissling</p> <p>Keywords: Baltic Sea, commercial fish, spatial ecology, ecosystem-based management</p>
L: 27 Poster	<p>Title: Modelling the variation in larval dispersal of estuarine and coastal ghost shrimp: <i>Upogebia</i> congeners in the Gulf of Cadiz</p> <p>Authors: R.F.T. Pires, M. Pan, A.M.P. Santos, Á. Peliz, D. Boutov, and A. dos Santos</p> <p>Keywords: Decapoda, <i>Upogebia pusilla</i>, <i>Upogebia deltaura</i>, Gulf of Cadiz, larval transport, modelling, ROMS, Ichthyop</p>
L: 28 Poster	<p>Title: <i>Calanus helgolandicus</i> and a changing climate: Analysis of a 25-year time series from the English Channel</p> <p>Authors: Jacqueline Maud, Angus Atkinson, Andrew Hirst, Penelope Lindeque, Claire Widdecombe, Andrea McEvoy, and Rachel Harmer</p> <p>Keywords: <i>Calanus helgolandicus</i>, population dynamics, English Channel, Station L4</p>

Theme Session M
Ecological consequences of reduced body size
of organisms in the future ocean

Conveners: Antonio Bode (Spain), Tara Marshall (UNIABDN), and Xosé Anxelu G. Morán (Spain)

Agenda and Orders of the Day for:

Monday 15 September 2014, 16:30–19:00 – Modular Room 6

Tuesday 16 September 2014, 10:30–16:30 – Modular Room 6

- | | |
|------------------------------|-------|
| 1) Opening and introduction | 16:30 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM Code		Time
MONDAY 15 SEPTEMBER 2014, 16:30–19:00 – Modular Room 6		
M: 01 Oral	Title: Change in size of deep-sea demersal fish over depth and time <hr/> Authors: B.L. Mindel, F.C. Neat, T.J. Webb, and J.L. Blanchard <hr/> Keywords: Deep sea, community ecology, continental slope, L(max), time series, bathymetric gradient	16:30
M: 02 Oral	Title: Effects of rebuilding cod size structure in a warmer Barents Sea <hr/> Authors: Bjarte Bogstad and Jennifer A. Devine <hr/> Keywords: cod, Barents Sea, size structure, rebuilding	16:45
M: 03 Oral	Title: Contrasting patterns in fish size spectra across geographic and bathymetric gradients: An Atlantic-Mediterranean comparison <hr/> Authors: M. Hidalgo, A. Quetglas, M. Delgado, A. Esteban, L. Gil de Sola, F. Ordines, L. Rueda, A. Punzón, and E. Massutí <hr/> Keywords: Comparative analyses, fish communities, fishing impact, size-based indicators, size-spectra, spatial heterogeneity	17:00
M: 04 Oral	Title: The consequences of fishing-induced changes in predator size for top-down control of prey populations <hr/> Authors: Rebecca L. Selden, Robert R. Warner, and Steven D. Gaines <hr/> Keywords: ontogenetic, diet, predator-prey, fishing, niche overlap	17:15
M: 05 Oral	Title: A balanced harvesting strategy to counteract the effect on fisheries yields of reduced body size of organisms in the future ocean <hr/> Authors: Paúl Gómez-Canchong and Sergio Neira <hr/> Keywords: balanced harvesting, metabolic balance, biomass size spectra, trophic spectra	17:30

M: 06 Oral	Title: Spatial and temporal variation of individual growth of weakfish (<i>Cynoscion regalis</i>): A pattern correlates with climate oscillation	17:45
	Authors: Yan Jiao and Rob O'Reilly	
	Keywords: Bayesian, spatial and temporal fish growth, Atlantic weakfish, climate oscillation	
M: 07 Oral	Title: Some like it cold – Consequence of warming seas for the distribution of large bodied fish	18:00
	Authors: Hannes Höffle and Olav Sigurd Kjesbu	
	Keywords: <i>Gadus morhua</i> , thermal window, body size, Barents Sea	
M: 08 Oral	Title: A conceptual framework for diagnosing climate-induced phenotypic changes in body size of fish and projecting future responses	18:15
	Authors: C. Tara Marshall	
	Keywords: climate change, fish growth, temperature-size rule, fisheries yield	
M: 09 Poster	Title: Spatial heterogeneity in size-based change: Understanding the relative effects of fishing and climate on North Sea fish	18:32
	Authors: Abigail Marshall, Grant Bigg, John Pinnegar, Thomas J. Webb, Sonja van Leeuwen, Hua-Liang Wei, and Julia L. Blanchard	
	Keywords: spatio-temporal change, environment, NARMAX, size-based indicators	
M: 10 Poster	Title: Ecosystem models help to understand how phenotypic changes towards small body size and early maturation affect fish population recovery rates	18:34
	Authors: Asta Audzijonyte, Anna Kuparinen and Elizabeth A. Fulton	
	Keywords: body size, ecosystem models, fisheries-induced evolution, stock recovery	
M: 11 Poster	Title: Marine meiofauna from Galician coasts: State of the art and catalogue of species	18:36
	Author: C. Besteiro	
	Keywords: marine meiofauna, catalogue, Galicia	
M: 12 Poster	Title: More, smaller bacteria in response to ocean's warming	18:38
	Authors: X.A.G. Morán, L. Alonso-Sáez, E. Nogueira, H.W. Ducklow, N. González, Á. López-Urrutia, L. Díaz-Pérez, A. Calvo-Díaz, N. Arandia-Gorostidi, and T.M. Huete-Stauffer	
	Keywords: bacterioplankton, time-series, temperature-size relationships, global warming, long-term trends, Atlantic Ocean	
	Discussion	18:45

TUESDAY 16 SEPTEMBER 2014, 10:30–16:30 – MOD

M: 13 Oral	Title: Trends in the size of mesozooplankton during the last 25 years at A Coruña (N Spain)	10:30
	Authors: Antonio Bode and M. Teresa Álvarez-Ossorio	
	Keywords: zooplankton, size, upwelling, warming, climate change	

M: 14 Oral	Title: Long-term (1987–2013) dynamics in the winter zooplankton size distribution and species composition obtained from a so far unconsidered data series taken in the southern North Sea	10:45
	Authors: Tim Dudeck, Norbert Rohlf, Christian Möllmann, and Marc Hufnagl	
	Keywords: normalised biomass size-spectrum, zooplankton, Zooscan, long-term timeseries analysis, ecosystem models	
M: 15 Oral	Title: Differential effects of temperature on growth and maturity, may contribute to reduced body size in the ectotherm <i>Haliotis rubra</i>	11:00
	Authors: Fay Helidoniotis, Malcolm Haddon, and Farhan Rizwi	
	Keywords: abalone, Haliotis, southern hemisphere, temperature, maturity, growth	
M: 16 Oral	Title: Changes in maximum body size for male and female red king crab (<i>Paralithodes camtschaticus</i>) in Norwegian waters	11:15
	Authors: Ann Merete Hjelset, Jan H. Sundet and Einar M. Nilssen	
	Keywords: Barents Sea, mate choice, maximum age, large male-selective harvest, population structure	
	Discussion	11:30
LUNCH		
M: 17 Oral	Title: Testing the temperature-size rule in marine microorganisms: Effect of experimental warming on the size of major bacterioplankton groups as determined by CARD-FISH	15:00
	Authors: N. Arandia-Gorostidi, T.M. Huete-Stauffer, L. Alonso-Sáez, and X.A.G. Morán	
	Keywords: bacterioplankton, phylogenetic groups, Sar11, temperature-size relationships, global warming	
M: 18 Oral	Title: Exploring the temperature-driven size reduction of marine bacteria over an annual cycle	15:15
	Authors: T.M. Huete-Stauffer, N. Arandia-Gorostidi, and X.A.G. Morán	
	Keywords: bacterioplankton, HNA, LNA, temperature-size relationships, global warming, flow cytometry	
M: 19 Oral	Title: Biogeochemical shifts in a coastal upwelling area (NE Atlantic) do not lead to downsizing in phytoplankton species despite altering the structure of the community	15:30
	Authors: Jaime Otero, Antonio Bode, Xosé Antón Álvarez-Salgado, and Manuel Varela	
	Keywords: upwelling, nutrients, primary production, phytoplankton, community changes, body size, NE Atlantic	
M: 20 Oral	Title: The relative importance of intraspecific and interspecific effects to temperature-size relationships in diatom communities	15:45
	Authors: G. Adams, D. Pichler, E. Cox, E. O'Gorman, A. Seeney, G. Woodward and D. Reuman	
	Keywords: Bergmann's rule, climate change, community size structure, diatoms, global warming, James' rule, phytobenthos, phytoplankton, temperature-size relationships	
M: 21 Oral	Title: Microbial plankton size matters for mussels	16:00
	Authors: F.G. Figueiras, C.G. Castro, M. Froján, U. Labarta, M.J. Fernández-Reiriz, D. Zúñiga, B. Arbones, I. G. Teixeira, and F. Alonso-Pérez	

	Keywords: microplankton, upwelling mussel growth, global warming	
M: 22 Oral	Title: Shift in phytoplankton size structure and trophic status of the upwelling system Ría de Vigo (NW Iberia) due to mussel farming	16:15
	Authors: María Froján, B. Arbones, F. Alonso-Pérez, D. Zúñiga, F.G. Figueiras, C.G. Castro	
	Keywords: phytoplankton size-structure, trophic status, upwelling, primary production, mussel farming.	
	End of session	16:30

Theme Session N

Resilience and marine ecosystem services

Conveners: Sebastian Villasante (Spain), Gonzalo Macho (Spain), and Stephanie Stefanski (USA)

Agenda and Orders of the Day for:

Thursday 18 September 2014, 17:30–19:00 – Modular Room 6

Friday 19 September 2014, 09:00–17:00 – Modular Room 6

- | | |
|------------------------------|-------|
| 1) Opening and introduction | 17:30 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM		Time
Code		
THURSDAY 18 SEPTEMBER 2014, 17:30–19:00 – Modular Room 6		
N: 01 Oral	Title: Evaluating ecosystem services: Starting at the bottom of the food-chain?	17:45
	Authors: Jacqueline F. Tweddle, Rory O'Hara Murray, Beth Scott, and Matthew Gubbins	
	Keywords: ecosystem services, primary production, marine renewables, marine management	
N: 02 Oral	Title: 100 years of Baltic Sea changes	18:00
	Authors: Anna Luzencyk and Maciej T. Tomczak	
	Keywords: flounder, Baltic Sea, global change	
N: 03 Oral	Title: Quantification of environmental externalities in the utilization of ecosystem services – a long-term perspective on trade-offs in fisheries in the southern North Sea	18:15
	Authors: Heino O. Fock, Matthias Kloppmann, and Vanessa Stelzenmüller	
	Keywords: ecosystem services, ecological risk assessment, fisheries impacts, ecosystem state	
N: 04 Oral	Title: Of sets of offsets: cumulative impacts and strategies for compensatory restoration	18:30
	Authors: Olivier Thébaud, Fabio Boschetti, Sarah Jennings, Anthony D. M. Smith, and Sean Pascoe	
	Keywords: biodiversity offsets, compensatory restoration, cumulative impacts, habitat-resource interactions, bioeconomic modelling, social acceptability, coastal and marine ecosystem resilience	
N: 05 Oral	Title: Fish production, livelihoods and environmental challenges in some coastal communities of Nigeria and Sierra Leone	18:45
	Authors: Paul Bangura, Yemi Akegbejo-Samsons, and Abdul W. O	
	Keywords: environmental, fish	

FRIDAY 19 SEPTEMBER 2014, 09:00–17:00 – MOD

N: 06 Oral	Title: Quantifying the value created from research surveys	09:00
	Authors: Raúl Prellezo and Rogelio Pozo	
	Keywords: value creation, ecosystem services, uncertainty, Bayes, research surveys	
N: 07 Oral	Title: Eco-HCRs: Bringing the environmental dimension into Harvest Control Rules for marine fisheries management	09:15
	Authors: Dorothy J. Dankel, Anne Maria Eikeset, Geir Ottersen, Mette Skern-Mauritzen, Sondre Aanes, and Olav S. Kjesbu	
	Keywords: environmental data, NAO, salinity, temperature, population growth rates, harvest control rules, NEA cod, modelling	
N: 08 Oral	Title: Resilience of the trophic cascades in the Black Sea and Baltic Sea regime shifts	09:30
	Authors: Marcos Llope, Thorsten Blenckner, Georgi Daskalov, and Nils Chr. Stenseth	
	Keywords: regime shifts, trophic control, marine food webs	
N: 09 Oral	Title: Fishermen prioritization of sustainable management strategies	09:45
	Authors: Julia Touza, Julia Torralba, Jose Maria Da Rocha, Javier Garcia Cutrin, Paz Sampedro, Rosa Mato Amboage, Dorleta Garcia, Raul Prellezo, and Santiago Cervi	
	Keywords: stakeholder preferences, survey design, harvesting tradeoffs	
N: 10 Oral	Title: An ecosystem approach to Portuguese mixed fisheries	10:00
	Authors: Inês Cardoso, Teresa Moura, Hugo Mendes, Cristina Silva, Manuela Azevedo, and Alberto Murta	
	Keywords: mixed fisheries, multi-species, technical interactions, biological interactions, ecosystem scale	
N: 11 Oral	Title: Drawing and deconstructing scientific knowledge: validating LEK in designing of coastal space through Marine Reserve of Fishing Interest Ría de Cedeira (NW Spain)	10:15
	Authors: Duarte Fernández-Vidal, Patricia Verísimo, Antonio García-Allut, and Juan Freire	
	Keywords: local ecological knowledge (LEK); design; participation; validation; marine reserves of fishing interest	
BREAK		
N: 12 Oral	Title: Mapping ecosystem goods and services provided by benthic habitats in the European North Atlantic Ocean	11:00
	Authors: Ibon Galparsoro, Angel Borja, and María C. Uyarra	
	Keywords: ecosystem services, benthic habitat, regional seas, Marine Strategy Framework Directive, habitat classification	
N: 13 Oral	Title: Understanding links between fisheries and seagrass meadows through mapping the spatial and social distribution of marine uses in San Simón Bay (NW Spain)	11:15
	Author: Leticia Bas Ventín	
	Keywords: Spatial and social distribution of marine activities, fisheries, seagrass meadows, Natura 2000 Network, ecosystem services	

N: 14 Oral	Title: Cooperation, trust and social networks improve social welfare of fishing communities in Peninsula Valdés (Argentina)	11:30
	Authors: Sebastian Villasante, Gonzalo Macho, and Ines Elias	
	Keywords: ecosystem services, small-scale fisheries, South Patagonia	
N: 15 Oral	Title: Ecosystem valuation, synergies and trade-offs of marine social-ecological systems in South Patagonia (Argentina)	11:45
	Authors: Sebastian Villasante, Gonzalo Macho, and Ines Elias	
	Keywords: cooperation, ecosystem services, small-scale fisheries	
N: 16 Oral	Title: Quantifying ecological resilience in shifting complex natural systems: an application on Barents Sea cod	12:00
	Authors: Paris Vasilakopoulos and C. Tara Marshall	
	Keywords: fold-bifurcation, <i>Gadus morhua</i> , resilience assessment, stability landscape, tipping point	
N: 17 Poster	Title: The ICES Working Group on Comparative Analyses between European Atlantic and Mediterranean marine ecosystems – a new effort towards developing Ecosystem-based Fisheries Management (WGCOMEDA)	12:15
	Authors: M. Hidalgo, M. Coll, H. Hinz, I.C. Catalán, J. Claudet, M. Demestre, M. Giannoulaki, J.J. Heymans, F. Le Loch, M. Lindegren, C. Möllmann, A. Muntadas, J. Navarro, P. Olivar, J. Otero, I. Palomera, C. Piroddi, J. Steenbeek, K. Tsagarakis, and other WGCOMEDA participants	
	Keywords: comparative analyses, ecosystem-based management, ecosystem functioning, environmental influence, fishing impact, forage species, resilience ecology, WGCOMEDA	
N: 18 Poster	Title: Stability and resilience in marine communities confronting fisheries disturbances: an allometric approach	12:17
	Authors: Paúl Gómez-Canchong and Renato A. Quiñones	
	Keywords: balanced harvesting, biomass size spectra, overexploited alternate regime	
	Discussion	12:19
LUNCH		
	End of session	17:00

Theme Session O

Landings obligation as a pathway towards the integration of CFP and MSFD – lessons learned and forward look after 2015

Conveners: Tom Catchpole (UK), Clara Ulrich (Denmark), and Marie-Joëlle Rochet (France)

Agenda and Orders of the Day for:

Monday 15 September 2014, 16:30–19:00 – Gaviota

Tuesday 16 September 2014, 10:30–17:30 – Arao

- | | |
|------------------------------|-------|
| 1) Opening and introduction | 16:30 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM Code	Time
MONDAY 15 SEPTEMBER 2014, 16:30–19:00 – Gaviota	
O: 01 Oral	16:45
Title: Choked by the implementation: An example on the Bay of Biscay	
Authors: Raúl Prellezo, Marina Santurtún, Jon Ruiz, Luis Arregi, Esteban Puente, Eider Andonegi, and Naiara Rodríguez-Ezpeleta	
Keywords: landing obligation, sustainability, implementation	
O: 02 Oral	17:00
Title: RTI may offer a solution to the choke-species problem under the landings obligation	
Authors: Sarah B. M. Kraak, Dave G. Reid, Edward A. Codling, Emer Rogan, and Ciarán J. Kelly	
Keywords: choke species, discard ban, Ecosystem Approach to Fisheries Management, landings obligation, mixed fisheries, Real-Time Incentives, spatiotemporal fisheries management	
O: 03 Oral	17:15
Title: TACs and the landing obligation working together	
Author: Lisa Borges	
Keywords: discards, management policy, European fisheries	
O: 04 Oral	17:30
Title: The landing obligation, an NGO perspective: learning by doing, the risks and opportunities.	
Author: Miquel Ortega Cerda	
Keywords: landing obligation, NGO, procedural limits, quota uplifts, control monitoring and enforcement, MSY	
O: 05 Oral	17:45
Title: Cost of selectivity: inducing of density dependent growth in Eastern Baltic cod (<i>Gadus morhua</i>)	
Authors: Henrik Svedäng and Sara Hornborg	
Keywords: <i>Gadus morhua</i> , selectivity, MSY, density-dependent growth	

O: 06 Oral	Title: Incentivising selective fishing under catch quotas: using an Fcube modelling approach to evaluate management options for North Sea mixed fisheries	18:00
	Authors: H.M. Condie, P.J. Dolder, T.L. Catchpole, C. Ulrich, and A. Grant	
	Keywords: catch quotas, Common Fisheries Policy, discard ban, Fcube, selective fishing, mixed fisheries, North Sea	
O: 07	<i>Withdrawn</i>	
O: 08 Oral	Title: Discard survival experiments on the Basque purse seine fleet	18:15
	Authors: Luis Arregi, Iñigo Onandia, Jon Ruiz, Esteban Puente, and Jose Mari Ferarios	
	Keywords: discard survival, exemptions to landing obligation, purse seine discard	
O: 09 Oral	Title: Rays of hope – discard survival in North Sea rays	18:30
	Authors: I. Kingma, P.A. Walker, and M. v.d Water	
	Keywords: rays, landing obligation, discards, discard survival, stakeholder participation	
	Discussion	18:45
TUESDAY 16 SEPTEMBER 2014, 10:30–17:30 – Arao		
O: 10 Oral	Title: The discourse on the landing obligation: understanding the great divide between the government and the fishermen in Dutch demersal fisheries	10:30
	Authors: M. Kraan, F. Quirijns, and M. Pastoors	
	Keywords: CFP, landing obligation, discards, discourse analysis	
O: 11 Oral	Title: Ecological and socioeconomic implications of landings obligation in a Mediterranean mixed fishery managed by input controls	10:45
	Authors: Paris Vasilakopoulos and Christos D. Maravelias	
	Keywords: Mediterranean, effort, mixed fisheries, sustainability, unwanted catch	
O: 12 Oral	Title: Likely status and changes in the main economic and fishery indicators under the various discards policies	11:00
	Authors: N. Alzorritz, E. Jardim, I. Mosqueira, G.C. Osio, J.J. Poos, and A. Rijnsdorp	
	Keywords: discard ban, fleet dynamics, Bay of Biscay, Basque trawl mixed fishery, effort allocation, management strategy evaluation	
O: 13 Oral	Title: Sharing real-time information about “bad” fishing locations. A tool for quota optimisation under landing obligations	11:15
	Authors: Søren Qvist Eliassen and Nikolaj Bichel	
	Keywords: fleet communication, hotspots, landing obligation, time-place selectivity, bycatch reduction	
O: 14 Oral	Title: Can EM support compliance with landings obligations?	11:30
	Author: Howard I. McElderry	
	Keywords: catch quota, full retention, electronic monitoring, EM, shore-based whiting fishery, hake, <i>Merluccius productus</i>	

O: 15 Oral	Title: Preparing for the landing obligation in pelagic fisheries: lessons from a pilot project to avoid, handle and document unwanted bycatch	11:45
	Authors: M.A. Pastoors, G.J. van Balsfoort, A.T.M. van Helmond, H.M.J. van Overzee, H.R. Offringa, and L.A. Bouts	
	Keywords: CFP, landing obligation, discards, pelagic fishery, selectivity, electronic monitoring	
O: 16 Oral	Title: Priority research areas for evaluating ecosystem consequences of a discard ban	12:00
	Authors: Maria Fatima Borges, Eider Andonegui, Jochen Depestele, Gerjan Piet, David Reid, Anna Rindorp, Thomas Kirk Sorensen, Gro I. van der Meeren	
	Keywords: discard ban, ecosystem consequences, research priorities	
O: 17 Oral	Title: Estimating biomass and harvest rates of bycaught sharks and rays in New Zealand and European fisheries	12:15
	Authors: Verena Trenkel, Pascal Lorange, Malcolm Francis, Alistair Dunn, and Charles Edwards	
	Keywords: bycatch, data poor assessment, fishing practice	
O: 18 Oral	Title: Estimating biomass, fishing mortality and 'total allowable discards' for surveyed non-target fish	12:30
	Authors: Samuel Shephard, David G. Reid, Hans Gerritsen, and Keith D. Farnsworth	
	Keywords: bycatch, Pope's Postulate, catchability, stock assessment, elasmobranchs	
O: 19 Oral	Title: Scenarios for the future of the French onboard observer programme	12:45
	Authors: Marie-Joëlle Rochet, Verena Trenkel, Patrick Berthou, Jacques Bertrand, Alain Biseau, Christian Dintheer, Youen Vermard, and Joël Vigneau	
	Keywords: onboard observer programmes, landing obligation, observation bias	
LUNCH		
	Discussion	15:00
	End of session	17:30

Theme Session P

Operational solutions for cephalopod fisheries and culture

Conveners: Marina Santurtun (Spain), Joao Pereira (Portugal), Begoña Santos (Spain), and Jean-Paul Robin (France)

Agenda and Orders of the Day for:

Thursday 18 September 2014, 17:30–19:00 – Gaviota

Friday 19 September 2014, 09:00–17:00 – Gaviota

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|------------------------------|-------|
| 1) Opening and introduction | 17:30 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM Code	Time
THURSDAY 18 SEPTEMBER 2014, 17:30–19:00 – Gaviota	
P: 01 Oral	17:45
Title: Environmental impacts on migrations of <i>Illex argentinus</i> in the Southwest Atlantic with applications to the distribution of fishing fleet Author: Alexander Arkhipkin Keywords: Southwest Atlantic, Falkland Islands, <i>Illex argentinus</i> , migrations, fishing fleet	
P: 02 Oral	18:00
Title: Modelling seasonal variability of cephalopod abundances of three contrasting species from Western Mediterranean Sea Authors: P. Puerta, M. Hidalgo, and A. Quetglas Keywords: seasonality, cephalopods, environmental variability, spatio-temporal trends	
P: 03 Oral	18:15
Title: Common octopus (<i>Octopus vulgaris</i> , Cuvier 1797) abundance dynamics and its relationship with environmental parameters on the Portuguese Northwest Coast Authors: Sílvia Lourenço, Carlos Soderblohm, Inês Cardoso, Ana Moreno, Cristina Silva, Karim Erzini, and João Pereira Keywords: common octopus, fisheries, abundance, environment	
P: 04 Oral	18:30
Title: Development of a predictive tool for English Channel squids abundance (<i>Loligo forbesii</i> and <i>Loligo vulgaris</i>) applicable early in the fishing season: linear approach using climatic data Authors: Edouard Duhem and Jean-Paul Robin Keywords: squid, <i>Loligo forbesii</i> , <i>Loligo vulgaris</i> , English Channel, abundance index, Delta-GLM, climatic variations, Bayesian	

P: 05 Oral	Title: Untangling drivers, mechanisms and scales of environmental effects on squid availability to a seasonal inshore fishery	18:45
	Authors: Owen C. Nichols, Jeremy R. King, Jonathan A. Hare, and Steven X. Cadrin	
	Keywords: cephalopod, <i>Doryteuthis pealeii</i> , distribution, abundance, temperature, climate	

FRIDAY 19 SEPTEMBER 2014, 09:00–17:00 – Gaviota

P: 06 Oral	Title: Environmental effects on <i>Octopus vulgaris</i> landings in northwest Spanish waters	09:00
	Authors: Gersom Costas, Isabel Bruno, and Graham J. Pierce	
	Keywords: <i>Octopus vulgaris</i> , environmental variables, landings, general additive model, time series	
P: 07 Oral	Title: Thermal habitat compression and density-dependent overwintering mortality in longfin inshore squid: Theory, empirical support, and a possible application enhancing the flexibility of fisheries management	09:15
	Authors: John Pilling Manderson, Howard Townsend, Josh Kohut, Laura Palamara, and Enrique Churchister	
	Keywords: dynamic habitat, habitat mediated density dependence, longfin inshore squid	
P: 08 Oral	Title: Spatial differences and temporal trends in cephalopod populations along the Mediterranean	09:30
	Authors: Stefanie Keller, Valerio Bartolino, Manuel Hidalgo, Antoni Quetglas, Isabella Bitetto, Loredana Casciaro, Antonio Esteban, Cristina Garcia, Germana Garofalo, Marios Iosifides, Angelique Jadaud, Argyris Kallianiotis, Evgenia Lefkaditou, Porzia Maiorano, Bojan Marceta, Enric Massuti, Roberta Mifsud, Panagiota Peristeraki, Paolo Sartor, Maria Teresa Spedicato, and George Tserpes	
	Keywords: Mediterranean, cephalopods, community analysis, spacio-temporal distribution	
P: 09 Oral	Title: New approach for Loliginids paralarvae identification in Galicia coastal waters	09:45
	Author: Lorena Olmos-Pérez, Álvaro Roura, and Ángel F. González	
	Keywords: Loliginids, paralarvae, molecular identification, Galicia	
P: 10 Oral	Title: Stylet increment analysis in <i>Eledone cirrhosa</i> from the Northwestern Iberian population	10:00
	Authors: M. Regueira, Ángel F. González, and Ángel Guerra	
	Keywords: <i>Eledone cirrhosa</i> , stylets, age, growth, Northeastern Iberian waters	
P: 11 Oral	Title: Sustainability of cephalopod fisheries across the World: fluctuations, stock assessment and management	10:15
	Authors: Vladimir Laptikhovsky and Beatriz Roel	
	Keywords: cephalopod, fishery, stock assessment, management	

BREAK

P: 12 Oral	Title: First steps towards providing management advice for the Bay of Biscay squid (<i>Loligo vulgaris</i>)	11:00
	Authors: Leire Ibaibarriaga, Sonia Sanchez, Marina Santurtun, Ane Iriondo, Edouard Duhem, and Jean-Paul Robin	
	Keywords: <i>Loligo vulgaris</i> , biomass dynamic model, data-limited stocks, Bay of Biscay	
P: 13 Oral	Title: Much ado about nothing – the Algarve small-scale octopus fishery flare 4 years hence – non-issues and realities	11:15
	Authors: João Pereira, Manuela Azevedo, and Cristina Pita	
	Keywords: Octopus, SSF, management, Portugal	
P: 14 Oral	Title: Can we manage Mediterranean cephalopod stocks at MSY by 2015?	11:30
	Authors: Antonio Quetglas, S. Keller, and E. Massutí	
	Keywords: MSY, assessment, management, cephalopods, Mediterranean	
P: 15 Oral	Title: Environmental and fishery-driven dynamics of the common octopus (<i>Octopus vulgaris</i>) based on time-series analyses from leeward Algarve, southern Portugal	11:45
	Authors: Carlos P. Sonderblohm, João Pereira, and Karim Erzini	
	Keywords: environment, <i>Octopus vulgaris</i> , Portugal, recruitment, time-series, trap fishing, trends	
P: 16 Oral	Title: Good environmental status for cephalopods in UK waters?	12:00
	Authors: G.J. Pierce, L.C. Hastie, N. El Shanawany, V. Valavanis, J. Fernandez, A. Arkhipkin, J-P. Robin, J. Ellis, F. Burns, S.P.R. Greenstreet, and B. Roel	
	Keywords: squid, octopus, cuttlefish, baselines, environmental relationships, MSFD	
P: 17 Oral	Title: Spatial and temporal distribution patterns of the effort of cuttlefish (<i>Sepia officinalis</i>) fishery at the Marine Reserve of Fishing Interest Ría de Cedeira (Galicia, NW Spain)	12:15
	Authors: Ana Tubío and Ramón Muiño	
	Keywords: cephalopod, cuttlefish, artisanal fisheries, management, marine protected areas, <i>Sepia officinalis</i>	
P: 21 Oral	Title: Competing strategies of two fleets (artisanal and recreational) for assuring fishing activity and resource sustainability	12:30
	Authors: Estanis Mugerza, Luis Arregi, Ane Iriondo, Lucia Zarauz, Jon Ruiz, and Marina Santurtun	
	Keywords: Cephalopods catches, artisanal and recreational fisheries, assessment, fleet interaction	
P: 18 Oral	Title: Nursery and spawning areas of the squid <i>Loligo vulgaris</i> on the Portuguese Northwest Coast	12:45
	Authors: Ana Moreno, Corina Chaves, Sílvia Lourenço, Hugo Mendes, and João Pereira	
	Keywords: <i>Loligo vulgaris</i> , nurseries, spawning areas, essential habitat	
LUNCH		
P: 19 Oral	Title: Using statistical time series approaches in the characterization and monitoring of cephalopod fisheries	15:00
	Authors: N. Prista, J. Pereira, and A. Moreno	
	Keywords: time-series analysis, landings, forecasts, cephalopods, Portugal	

P: 22 Oral	Title: Investigating husbandry and enrichment for captive common European cuttlefish (<i>Sepia officinalis</i>)	15:15
	Authors: Gavan M. Cooke and Belinda M. Tonkins	
	Keywords: cephalopods, cuttlefish, welfare, husbandry, enrichment, aquaculture	
P: 23 Oral	Title: European research surveys for fisheries assessment vs the ARRIVE Guidelines: or how to reduce unnecessary mortality on some species – octopus, rays and demersal sharks in Portuguese surveys	15:30
	Authors: João Pereira, Sílvia Lourenço, Corina Chaves, Irineu Batista, Bárbara Serra-Pereira, and Ivone Figueiredo	
	Keywords: ARRIVE guidelines, animal welfare, octopus, rays, sharks	
P: 24 Oral	Title: A joint academic-industrial project to culture the Asian common octopus commercially using land-based aquaria	15:45
	Authors: Ian G. Gleadall, Goh Nishitani, Masami Abe, Keiji Matsubara, Nobuhiko Akiyama, and Masazumi Nishikawa	
	Keywords: <i>Octopus sinensis</i> , aquaculture, paralarvae, feed	
P: 20 Oral	Title: Preliminary trials to model inshore migration of English Channel cuttlefish spawners (<i>Sepia officinalis</i>) by means of generalized depletion models applied to inshore trap fisheries in French and UK waters	16:00
	Authors: Edouard Duhem, Victoria Wearmouth, Olivier Basuyaux, Beatriz Roel, Franck Coppin, and Jean-Paul Robin	
	Keywords: cuttlefish, <i>Sepia officinalis</i> , English Channel, generalized depletion models, inshore fisheries, traps, spawning migrations	
Poster presentations		
P: 26 Poster	Title: What about recreational fishing? Estimating total harvest from the recreational squid fishery	16:15
	Authors: Miguel Cabanellas-Reboredo, Josep Alós, Miquel Palmer, Ángel Guerra, and Beatriz Morales-Nin	
	Keywords: recreational fishery, angler typology, total harvest, <i>Loligo vulgaris</i> , fishing effort, catch rates	
P: 28 Poster	Title: Squid jigging: An important emerging fishery for the Manx economy?	16:20
	Authors: Isobel Bloor, Sam Dignan, Lee Murray, and Michel Kaiser	
	Keywords: cephalopods, squid, jigging, Isle of Man, economy	
P: 25 Poster	Title: Trophic ecology of juvenile cuttlefish from the main spawning grounds of the English Channel	16:25
	Authors: K. Grangeré, S. Lefebvre, J. Lepoittevin, and J-P. Robin	
	Keywords: diet, stable isotopes, stomach contents, cuttlefish, trophic web	
P: 27 Poster	Title: Spawning habitat selection by <i>Octopus vulgaris</i> : A new tool for sustainable management of this resource in NE Atlantic	16:30
	Authors: Ángel Guerra, Jorge Hernández-Urcera, Manuel E. Garci, Marta Sestelo, Marcos Regueira, Ángel F. González, Miguel Cabanellas-Reboredo, Matías Calvo-Manazza, and Beatriz Morales-Nin	
	Keywords: <i>Octopus vulgaris</i> , essential habitat, visual censuses, environmental variable, fisheries management, marine protected areas	
	Discussion	16:35
	End of session	17:00

Theme Session Q

Physical and biological consequences of North Atlantic circulation patterns

Conveners: Ken Drinkwater (Norway), Cesar Gonzalez-Pola (Spain), Olafur Astthorsson (Iceland),
and Seth Danielson (PICES, USA)

Agenda and Order of the Day for:

Wednesday 17 September 2014, 09:00–13:00 – Modular Room 6

- 1) Opening and introduction 09:00
- 2) Appointment of rapporteur
- 3) Presentation of papers

CM Code		Time
Q: 01 Oral	<p>Title: Ramifications of a longitudinally shifting Aleutian Low</p> <p>Author: Seth Danielson</p> <p>Keywords: Bering Strait, Aleutian Low, Subarctic–arctic exchange</p>	09:15
Q: 02 Oral	<p>Title: On the role of East Greenland waters on the seasonal variability of the hydrography of the West Greenland Shelf</p> <p>Author: Ken Drinkwater</p> <p>Keywords: West Greenland, East Greenland, temperature, salinity, advection, seasonal variability</p>	09:30
Q: 03 Oral	<p>Title: Climatic variation in North Atlantic as a key factor in variability of salinity patterns in the Baltic Sea</p> <p>Author: G. Chernega</p> <p>Keywords: climatic variation, periods of zonal and meridional circulation, North Atlantic, Baltic Sea, water salinity</p>	09:45
BREAK		
Q: 04 Oral	<p>Title: What drives the spreading pattern of the Mediterranean Outflow Water (MOW) in the eastern Gulf Of Cadiz, SW Iberian Peninsula?</p> <p>Authors: Ricardo F. Sanchez-Leal, Maria Jesus Bellanco-Esteban, Jose Carlos Sanchez-Garrido, Manuel Ruiz-Villarreal, and Cesar Gonzalez-Pola</p> <p>Keywords: MOW, Gulf of Cádiz, NACW, mesoscale, topography, LADCP, CTD</p>	10:30
Q: 05 Oral	<p>Title: The northeastern Chukchi Sea: A complex high-latitude ecosystem</p> <p>Authors: Thomas J. Weingartner, R. H. Day, R. R. Hopcroft, A. L. Blanchard, A. E. Gall, D. E. Hannay, J. M. Mathis, B. L. Norcross, J. M. Questel, and B. M. Hollada</p> <p>Keywords: Chukchi Sea, arctic shelf ecosystem structure and function</p>	10:45
Q: 06 Oral	<p>Title: Prediction of silver hake distribution on the Northeast U.S. shelf based on Gulf Stream path index</p> <p>Authors: Xujing Jia Davis, Terrence M. Joyce, and Young-Oh Kwon</p> <p>Keywords: Gulf Stream path, silver hake distribution, autoregressive model prediction, Northeast U.S. Shelf</p>	11:00

Q: 07 Oral	Title: Interdecadal variations in the inorganic phosphorus content in the Atlantic Water and their possible impact on commercial resources of the Barents Sea	11:15
	Author: Oleg V. Titov	
	Keywords: inorganic phosphorus, Barents Sea, advection	
Q: 08 Oral	Title: How environmental conditions affect recruitment of King scallop (<i>Pecten maximus</i>) population in the Bay of Seine (Eastern English Channel, France)?	11:30
	Authors: Eric Foucher and Edouard Duhem	
	Keywords: king scallop, <i>Pecten maximus</i> , recruitment, English Channel, climate indices	
Q: 09 Oral	Title: Variability in the length–weight relationship and maturity-at-length of sardine <i>Sardine pilchardus</i> during the early spawning period (1992–2013)	11:45
	Authors: M. B. Santos, P. Diaz, R. Gonzalez-Quirós, S. Cranwell, and G. J. Pierce	
	Keywords: sardine, length–weight relationship, interannual variability, GAMs	
Q: 10 Oral	Title: Modelling the future biogeography of North Atlantic zooplankton communities in response to climate change	12:00
	Authors: Ernesto Villarino, Guillem Chust, Priscilla Licandro, Momme Butenschön, Leire Ibaibarriaga, Markus Kreuz, Aitor Larrañaga, and Xabier Irigoien	
	Keywords: zooplankton, GAM, climate change, Calanus, habitat suitability	
Q: 11 Poster	Title: Upwelling index as a regional climatic index in the NW Iberian Peninsula	12:15
	Authors: José Manuel Cabanas, Gonzalo González-Nuevo, Jesús Gago, and Águeda Cabrero	
	Keywords: upwelling index, NW Iberian shelf, climatic indices, oceanography, circulation	
Q: 12 Poster	Title: Long-term environmental variability in NW Iberian waters: influence over pelagic and demersal fish stocks	12:20
	Authors: José Manuel Cabanas, Águeda Cabrero, Jesús Gago, and Gonzalo González-Nuevo	
	Keywords: environmental variability, regime shifts, fish stock dynamics	
Q: 13 Poster	Title: Mediterranean Outflow Water in the eastern Gulf of Cadiz: pathways and seasonal variability	12:25
	Authors: Maria Jesus Bellanco Esteban, M. J. Bellanco Esteban, and R. F. Sánchez-Leal	
	Keywords: Gulf of Cadiz, MOW, pathways, dynamics	
Q: 14 Poster	Title: Patterns and trends in cetacean strandings on the Galician coast and their relationship with oceanography and fishing effort	12:30
	Authors: Camilo Saavedra, Águeda Cabrero, José Cedeira, Santiago Cerviño, Jesús Gago, Gonzalo González-Nuevo, Alfredo López, Graham J. Pierce, Fiona Read, and M. Begoña Santos	
	Keywords: oceanography, strandings, common dolphin, abundance	
	Discussion	12:35
	End of session	13:00

Theme Session R

Analytical approaches to using telemetry data to assess marine survival of diadromous and other migratory fish species

Conveners: Niall Ó Maoiléidigh (Ireland) and Ted Potter (UK)

Agenda and Order of the Day for:

Monday, 15 September 16:30–19:00 – Arao

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| 1) | Opening and introduction | 16:30 |
| 2) | Appointment of rapporteur | |
| 3) | Presentation of papers | |

CM Code		Time
R: 01 Oral	<p>Title: A novel approach to validate, analyze and display acoustic telemetry data</p> <hr/> <p>Authors: Dale Webber, Jonathan W. Carr, and Stephanie Smedbol</p> <hr/> <p>Keywords: n.a.</p>	16:45
R: 02 Oral	<p>Title: Using acoustic telemetry to estimate post-release survival and core use areas of sand tigers (<i>Carcharias taurus</i>)</p> <hr/> <p>Authors: J. P. Kilfoil, D. A. Fox, B. M. Wetherbee, and J. C. Carlson</p> <hr/> <p>Keywords: <i>Carcharias taurus</i>, post-release mortality, telemetry</p>	17:00
R: 03 Oral	<p>Title: Estimates of survival at varying temporal scales for fishes in the marine environment using electronic tagging technology</p> <hr/> <p>Authors: Michael J. W. Stokesbury and Jeffrey W. Beardsall</p> <hr/> <p>Keywords: n.a.</p>	17:15
R: 04 Oral	<p>Title: Estimating survival and the implications of predation</p> <hr/> <p>Authors: S. V. Johnston, T. W. Steig, and J. E. Ehrenberg</p> <hr/> <p>Keywords: telemetry, survival, predation</p>	17:30
R: 05 Oral	<p>Title: Bayesian hierarchical modeling of seven years of inter-stage survival rates of wild Atlantic salmon smolt and post-smolt from three rivers of eastern Canada</p> <hr/> <p>Authors: Gerald Chaput, Jonathan Carr, Fred Whoriskey, and Ian Jonsen</p> <hr/> <p>Keywords: n.a.</p>	17:45
R: 06 Oral	<p>Title: Partial Migration by New York Harbor and Hudson River Striped Bass: Insights through Multivariate Analysis</p> <hr/> <p>Authors: Benjamin I. Gahagan, David H. Secor (presenting authors), and Dewayne A. Fox</p> <hr/> <p>Keywords: telemetry, anadromy, striped bass, contingent, partial migration, multivariate analysis</p>	18:00

R: 07	Title: Habitat connectivity in a catadromous fish	18:15
Oral	Authors: Joy Young, Jim Whittington, Jynessa Dutka-Gianelli, and Ron Taylor	
	Keywords: acoustic telemetry, network analysis, catadromous	
R: 08	<i>Withdrawn</i>	
	Discussion	18:30
	End of session	19:00

Exhibitors



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