

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	<p>Title: The PELGAS story: from target species biomass assessment to multidisciplinary pelagic ecosystem monitoring</p> <hr/> <p>Authors: M. Doray, P. Petitgas, J. Massé, M. Huret, E. Duhamel, P. Bourriau, P. Grellier, C. Dupuy, O. van Canneyt, and G. Dorémus</p> <hr/> <p>Keywords: integrated monitoring, pelagic ecosystem, Bay of Biscay, indicators</p>	10:30
L: 02 Oral	<p>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</p> <hr/> <p>Authors: Stéphane Plourde, Peter S. Galbraith, François Grégoire, Ian A. McQuinn, Daniel Duplisea, and Martin Castonguay</p> <hr/> <p>Keywords: monitoring, Atlantic Zone Monitoring Program, Gulf of St. Lawrence, physical environmental conditions, zooplankton, pelagic fish</p>	10:45
L: 03 Oral	<p>Title: Westward feeding range expansion of Northeast Atlantic mackerel from 2007 to 2013: Effects of temperature, zooplankton abundance and spawning stock size</p> <hr/> <p>Authors: A. Olafsdottir, K. Utne, J.A. Jacobsen, L. Nottestad, G. Oskarsson, A. Slotte, and Webjorn Melle</p> <hr/> <p>Keywords: NEA mackerel feeding migration, temperature, zooplankton, spawning stock biomass</p>	11:00
L: 04 Oral	<p>Title: Fine-scale dynamics shape the seascape from zooplankton to seabirds</p> <hr/> <p>Authors: Daniel Grados, Arnaud Bertrand, François Colas, Sophie Bertrand, Xavier Capet, Alexis Chaigneau, Gary Vargas, Alexandre Mousseigne, and Ronan Fablet</p> <hr/> <p>Keywords: oxygen minimum zone, Internal waves, submesoscale, zooplankton, fish, seabirds</p>	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 Dorothée 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 Cannel, 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> <hr/> <p>Authors: Henn Ojaveer, Stefan Neuelfeldt, Jan Horbowy, Thorsten Blenckner, Michele Casini, Georgs Kornilovs, Patrick Polte, Christian Möllmann, Eero Aro, Andres Lehmann, Anders Nilsson, and Anders Nissling</p> <hr/> <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> <hr/> <p>Authors: R.F.T. Pires, M. Pan, A.M.P. Santos, Á. Peliz, D. Boutov, and A. dos Santos</p> <hr/> <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> <hr/> <p>Authors: Jacqueline Maud, Angus Atkinson, Andrew Hirst, Penelope Lindeque, Claire Widdecombe, Andrea McEvoy, and Rachel Harmer</p> <hr/> <p>Keywords: <i>Calanus helgolandicus</i>, population dynamics, English Channel, Station L4</p>
