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Theme Session L

Pelagic ecosystem dynamics from integrated monitoring surveys

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

CM Code	Oral Presentations	
L: 01 Oral	Title:	The PELGAS story: from target species biomass assessment to multidisciplinary pelagic ecosystem monitoring
	Authors:	Mathieu Doray
	Keywords:	integrated monitoring, pelagic ecosystem, Bay of Biscay, indicators
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 H.AH. McQuinn, Daniel Duplisea, Martin Castongua
	Keywords:	monitoring, Atlantic Zone Monitoring Program, Gulf of St. Lawrence, physical environmental conditions, zooplankton, pelagic fish
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:	Anna Olafsdottir
	Keywords:	NEA mackerel feeding migration, temperature, zooplankton, spawning stock biomass
L: 04 Oral	Title:	Fine-scale dynamics shape the seascape from zooplankton to seabirds
	Authors:	Daniel Grados
	Keywords:	oxygen minimum zone; Internal waves; submesoscale; zooplankton; fish; seabirds
L: 05 Oral	Title:	Mediterranean biodiversity (from phytoplankton to top predators) and present threats
	Authors:	Gabriel Reygondeau
	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.
	Authors:	Svetlana Kasatkina
	Keywords:	multidisciplinary acoustic survey, plankton and fishes, species interaction, stock assessment and TAC



CM Code	Oral Presentations	
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 modeling
	Authors:	James Ruzicka
	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
	Authors:	Svetlana Kasatkina
	Keywords:	ecosystem data time series, monitoring surveys, 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
	Authors:	Pierre Petitgas
	Keywords:	ecosystem monitoring, multi-table analysis, data integration, spatial structure, bay of Biscay
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.
	Authors:	Santiago Alvarez Fernandez
	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.
	Authors:	Aitor Albaina
	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
	Authors:	Barbara Remond
	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
	Authors:	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
	Authors:	Patrícia Gonçalves
	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.
	Authors:	Stan Kotwicki
	Keywords:	combined acoustic-bottom trawl survey, semipelagic species, abundance, distribution



CM Code	Oral Presentations	
L: 16 Oral	Title:	On the way towards using hydroacoustic multifrequency techniques to assess Northeast Atlantic mackerel (<i>Scomber scombrus</i>)
	Authors:	Tim Kirchner, Matthias Schaber, Matthias Kloppmann, Jens Ulleweit, Sascha Fässler, Jeroen van der Kooij, Axel Temming
	Keywords:	target classification, multifrequency hydroacoustic data, mackerel egg survey, daily egg production method
CM Code	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

CM Code	Posters	
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	Title:	Integrating spatial processes into ecosystem models for sustainable utilization of fish resources
	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
	Keywords:	Baltic Sea, commercial fish, spatial ecology, ecosystem-based management
L: 27 Poster	Title:	Modelling the variation in larval dispersal of estuarine and coastal ghost shrimp: <i>Upogebia</i> congeners in the Gulf of Cadiz
	Authors:	R.F.T. Pires, M. Pan, A.M.P. Santos, Á. Peliz, D. Boutov, and A. dos Santos
	Keywords:	Decapoda, <i>Upogebia pusilla</i> , <i>Upogebia deltaura</i> , Gulf of Cadiz, larval transport, modelling, ROMS, Ichthyop
L: 28 Poster	Title:	<i>Calanus helgolandicus</i> and a changing climate: Analysis of a 25-year time series from the English Channel
	Authors:	Jacqueline Maud, Angus Atkinson, Andrew Hirst, Penelope Lindeque, Claire Widdecombe, Andrea McEvoy, and Rachel Harmer
	Keywords:	<i>Calanus helgolandicus</i> , population dynamics, English Channel, Station L4