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Theme Session N

Resilience and marine ecosystem services

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

CM Code	Oral Presentations	
N: 01 Oral	Title:	Evaluating ecosystem services: Starting at the bottom of the food-chain?
	Authors:	Jacqueline F. Tweddle, Rory O'Hara Murray, Beth Scott, Matthew Gubbins
	Keywords:	ecosystem services; primary production; marine renewables; marine management
N: 02 Oral	Title:	100 years of Baltic Sea Changes
	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
	Authors:	Heino O. Fock, Matthias Kloppmann, 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
	Authors:	Olivier Thébaud, Fabio Boschetti, Sarah Jennings, Anthony D. M. Smith, Sean Pascoe
	Keywords:	biodiversity offsets, compensatory restoration, cumulative impacts, habitat-resource interactions, bioeconomic modelling, social acceptability, coastal and marine ecosystem resilience
N: 05 Oral	Withdrawn	
N: 06 Oral	Title:	Quantifying the value created from research surveys
	Authors:	Raúl Pallezo and Rogelio Pozo
	Keywords:	Value creation, Ecosystem services, Uncertainty, Bayes, Research surveys

CM Code	Oral Presentations	
N: 07 Oral	Title:	Eco-HCRs: Bringing the Environmental Dimension into Harvest Control Rules for Marine Fisheries Management
	Authors:	Dorothy J. Dankel, Anne Maria Eikeset, Geir Ottersen, Mette Skern-Mauritzen, Sondre Aanes, 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
	Authors:	Marcos Llope, Thorsten Blenckner, Georgi Daskalov, Nils Chr. Stenseth
	Keywords:	regime shifts, trophic control, marine food webs
N: 09 Oral	Title:	Fishermen prioritization of sustainable management strategies
	Authors:	Julia Touza, Julia Torralba, Jose Maria Da Rocha, Javier Garcia Cutrin, Paz Sampedro, Rosa Mato amboage, Dorleta Garcia, Raul Prellezo, Santiago Cervi
	Keywords:	stakeholder preferences, survey design, harvesting tradeoffs
N: 10 Oral	Title:	An ecosystem approach to Portuguese mixed fisheries
	Authors:	Inês Cardoso*, Teresa Moura, Hugo Mendes, Cristina Silva , Manuela Azevedo, 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)
	Authors:	Duarte Fernández-Vidal*, Patricia Verísimo, Antonio García-Allut, Juan Freire.
	Keywords:	Local ecological knowledge (LEK); design; participation; validation; marine reserves of fishing interest
N: 12 Oral	Title:	Mapping ecosystem goods and services provided by benthic habitats in the European North Atlantic Ocean
	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)
	Authors:	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)
	Authors:	Villasante, Sebastian; Macho, Gonzalo; Elias, Ines
	Keywords:	Ecosystem services, small-scale fisheries, South Patagonia

CM Code	Oral Presentations	
N: 15 Oral	Title:	Ecosystem valuation, synergies and trade-offs of marine social-ecological systems in South Patagonia (Argentina)
	Authors:	Villasante, Sebastian; Macho, Gonzalo; Elias, Ines
	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
	Authors:	Paris Vasilakopoulos (HCMR) and C. Tara Marshall (University of Aberdeen, UK)
	Keywords:	fold-bifurcation; Gadus morhua; resilience assessment; stability landscape; tipping point
CM Code	Posters	
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 (WG-COMEDA)
	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,
	Keywords:	Comparative analyses, ecosystem-based management, ecosystem functioning, environmental influence, fishing impact, forage species, resilience ecology, WG COMEDA
N: 18 Poster	Title:	Stability and resilience in marine communities confronting fisheries disturbances: an allometric approach
	Authors:	Paúl Gómez-Canchong, Renato A. Quiñones
	Keywords:	balanced harvesting, biomass size spectra, overexploited alternate regime