

Main Menu

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)

CM Code	Oral Presentations	
M: 01 Oral	Title:	Change in size of deep-sea demersal fish over depth and time
	Authors:	Mindel, B.L., Neat, F.C., Webb, T.J. & Blanchard, J.L.
	Keywords:	Deep sea; community ecology, continental slope; L(max); time series; bathymetric gradient
M: 02 Oral	Title:	Effects of rebuilding cod size structure in a warmer Barents Sea
	Authors:	Bjarte Bogstad and Jennfier A. Devine
	Keywords:	Cod, Barents Sea, size structure, rebuilding
M: 03 Oral	Title:	Contrasting patterns in fish size spectra across geographic and bathymetric gradients: an Atlantic - Mediterranean comparison
	Authors:	M. Hidalgo, A. Quetglas, M. Delgado, A. Esteban, L. Gil de Sola, F. Ordines, L. Rueda, A. Punzón and E. Massutí
	Keywords:	Comparative analyses, fish communities, fishing impact, size-based indicators, size-spectra, spatial heterogeneity.
M: 04 Oral	Title:	The consequences of fishing-induced changes in predator size for top-down control of prey populations
	Authors:	Rebecca L. Selden, Robert R. Warner, and Steven D. Gaines
	Keywords:	ontogenetic, diet, predator-prey, fishing, niche overlap
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
	Authors:	Paúl Gómez-Canchong, Sergio Neira
	Keywords:	balanced harvesting, metabolic balance, biomass size spectra, trophic spectra
M: 06 Oral	Withdrawn	
M: 07 Oral	Title:	Some like it cold - Consequence of warming seas for the distribution of large bodied fish
	Authors:	Hannes Höffle, Olav Sigurd Kjesbu
	Keywords:	Gadus morhua, 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
	Authors:	C. Tara Marshall
	Keywords:	climate change, fish growth, temperature-size rule, fisheries yield

CM Code	Oral Presentations	
M: 13 Oral	Title:	Trends in the size of mesozooplankton during the last 25 years at A Coruña (N Spain)
	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
	Authors:	Dudeck, Tim, Rohlf, Norbert, Möllmann, Christian, Hufnagl, Marc
	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 contribution to reduced body size in the ectotherm <i>Haliotis rubra</i>
	Authors:	Fay Helidoniotis, Malcolm Haddon, Farhan Rizwi
	Keywords:	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
	Authors:	Ann Merete Hjelset, Jan H. Sundet and Einar M. Nilssen
	Keywords:	Barents Sea, mate choice, maximum age, large male-selective harvest, population structure
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
	Authors:	N. Arandia-Gorostidi, T.M. Huete-Stauffer, L. Alonso-Sáez, 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
	Authors:	TM Huete-Stauffer, N Arandia-Gorstidi, XAG 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
	Authors:	Jaime Otero, Antonio Bode, Xosé Antón Álvarez-Salgado, 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
	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



CM Code	Oral Presentations	
M: 21 Oral	Title:	Microbial plankton size matters for mussels
	Authors:	F.G. Figueiras, C.G. Castro, M. Froján, U. Labarta, M.J. Fernández-Reiriz, D. Zúñiga, B. Arbones, I. G. Teixeira, 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
	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.
CM Code	Posters	
M: 09 Poster	Title:	Spatial heterogeneity in size-based change: Understanding the relative effects of fishing and climate on North Sea fish
	Authors:	Abigail Marshall, Grant Bigg, John Pinnegar, Thomas J. Webb, Sonja van Leeuwen, Hua-Liang Wei, 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
	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 (NW Iberian Peninsula). State of the art and catalogue of species
	Authors:	Besteiro, C.
	Keywords:	marine meiofauna, catalogue, Galicia
M: 12 Poster	Title:	More, smaller bacteria in response to ocean's warming
	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, T.M. Huete
	Keywords:	bacterioplankton, time-series, temperature-size relationships, global warming, long-term trends, Atlantic Ocean