

Main Menu

Theme Session R

Mapping and modelling of planktonic ecosystems for better monitoring and future projections of responses to global change

Conveners: Icarus Allen (UK), Johnny Johannessen (Norway), and Marcello Vichi (Italy)

	Papers/Oral Presentations
R:01	Title: Estimation from space of organic and inorganic production by phytoplankton in the ice-free Arctic Ocean
	Authors: Dmitry Pozdnyakov, Dmitry Petrenko, Elizaveta Zabolotskikh, and Francois Counillon
	Keywords: remote sensing, phytoplankton, production of organic and inorganic carbon, Arctic Ocean
R:02	Title: Mapping plankton biomass in the deep-ocean: an ecological provinces approach
	Authors: A. Bode et al.
	Keywords: plankton, biomass, deep-ocean, size-fractions, ecological provinces, Atlantic, Pacific, Indian
R:03	Title: How the Subpolar gyre strength influences phytoplankton blooms dynamics in the North Atlantic
	Authors: A.S.A. Ferreira, M. R. Payne, B. MacKenzie, and A. W. Visser
	Keywords: Phytoplankton blooms, subpolar gyre, North Atlantic
<u>R:04</u>	Title: Modeling interannual variability in the lower trophic levels in the North Atlantic
	Authors: Annette Samuelsen, Ehouarn Simon, and Laurent Bertino
	Keywords: North Atlantic, interannual variability, modeling, phytoplankton
R:05	Title: Modelling climate impacts on acidification in the North and Baltic Sea with ECOSMO II
	Authors: Ute Daewel, Corinna Schrum, and Dhanya Pushpadas
	Keywords: North and Baltic Sea, ECOSMO, acidification, climate change
R:06	Title: Challenges in the integration of ecological indicators within a network of Atlantic Ocean observations
	Authors: Marie-Fanny Racault, Trevor Platt, Shubha Sathyendranath, Ertugrul Agirbas, Victor Martinez Vicente, and John Bruun



distribution of cod eggs and settled juveniles in the North Sea Authors: Hannes Höffle and Peter Munk Keywords: fish eggs, juvenile fish, cod, North Sea
distribution of cod eggs and settled juveniles in the North Sea
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Title: Modelling the beginning and end of a planktonic life stage – the
Keywords: essential climate variables, plankton trophic dynamics, Western Channel Observatory
Authors: Stefano Ciavatta, Claudia Halsband, Claire Widdicombe, Tim Smyth, Elaine Fileman, and Angus Atkinson
Title: Climate-driven changes in plankton trophic dynamics
Keywords: phytoplankton functional groups, primary production, diatoms, ocean color remote sensing
Authors: Kimberly Hyde, Antonio Mannino, Xiaoju Pan, Margaret Mulholland, Michael Fogarty, Christopher Melrose, and Jonathan Hare
Title: Satellite derived phytoplankton functional group estimates in the northeast US Continental Shelf Large Marine Ecosystem
Keywords: Atlantic, in-situ, historical, longer term
Authors: John Bruun et al.
Title: Assessment of seasonal and decadal signals in the in-situ Atlantic plankton data
Keywords: Atlantic, integrated analysis, protocols
Authors: John Bruun et al.
Title: New methodologies to build an integrated global plankton database: the GreenSeas Analysis Framework
Keywords: Atlantic ocean, resolution, biogeochemical, models
Authors: William McKiver, Marcello Vichi, and Tomas Lovato
Title: Impact of resolved scales on global marine biogeochemical models
Withdrawn
Keywords: <i>Calanus finmarchicus, C. hyperboreus,</i> Nordic Seas, individual based modeling, life history strategy, climate change, genetic algorithm
Authors: Geir Huse, Solfrid Hjøllo, Cecilie Broms, Morten D. Skogen, and Webjørn Melle
Title: Effects of climate change on the <i>Calanus complex</i> in the Nordic Seas from individual based model simulations
Keywords: ecological indicators, earth observation, climate change, phytoplankton



R:15 Poster	Title: Planktonic ecosystem response to climate warming, signified by changes in abundance of krill and amphipods in Kongsfjorden, Svalbard
	Authors: Jon Rønning, Padmini Dalpadado, and Haakon Hop
	Keywords: Key words: macro-zooplankton, Kongsfjord, Arctic fjord systems, climate effects
R:16 Poster	Withdrawn
R:17 Poster	Title: Intercomparison of zooplankton (net) sampling systems used in mapping zooplankton.
	Authors: Hein Rune Skjoldal, Peter H. Wiebe, Lutz Postel, Tor Knutsen, Stein Kaartvedt, and Doug Sameoto
	Keywords: zooplankton; plankton nets; net intercomparison; towing speed
<u>R:18</u> <u>Poster</u>	Title: Nitrogen regeneration and assimilation rates in the euphotic zone of the Southern Benguela upwelling system
	Authors: Raissa Philibert, Howard Waldron, and Darren Clark
	Keywords: Southern Benguela; Nitrogen dynamics; Nitrification
R:19 Poster	Title: Towards a reanalysis of the North Atlantic and Arctic Ocean biology: a multi-year assimilation of satellite ocean color data with the deterministic ensemble Kalman filter
	Authors: Ehouarn Simon, Annette Samuelsen, and Laurent Bertino
	Keywords: data assimilation, reanalysis, North Atlantic/Arctic Ocean
R:20 Poster	Title: Copepods Monitoring in the southern Moroccan atlantic ocean : 21°N to 26°N
	Authors: Soukaina Zizah, Omar Ettahiri, Siham Salah, Ahmed Yahyaoui, and Mohammed Ramdani
	Keywords: Chlorophyll, Copepods, Biomass, Pelagic ecosystem, South Moroccan Atlantic
R:21 Poster	Title: Planktonic ecosystem model in the Japan Sea based on an operational ocean forecast system
	Authors: Tatsuro Watanabe and Katsumi Takayama
	Keywords: Japan Sea, NEMURO, operational ocean forecast system
R:22 Poster	Title: Applications of Box Jenkins Transfer function methods to identify seasonal and longer term trends in Marine time series
	Authors: John Bruun; Paul Somerfield, and Icarus Allen
	Keywords: Atlantic, time series analysis, transfer function, coherence



	Authors: The Green seas consortium
	Keywords: plankton data, global, numerical models, environmental indicators
R:24 Poster	Title: Atlantic zone monitoring program zooplankton atlas for the Northwest Atlantic
	Authors: Catherine L. Johnson, Pierre Pepin, Michel Harvey, and Benoit Casault
	Keywords: Northwest Atlantic, zooplankton, spatial distribution, biogeography
R:25 Poster	Title: Primary production in coastal waters off Mid-Norway
	Authors: Ingrid H. Ellingsen, Ole Jacob Broch, Øyvind Knutsen, Johanne Arff, Thomas A. McClimans, and Dag Slagstad
	Keywords: coupled models, primary production, upwelling
R:26 Poster	Title: Planktonic copepods structures and the impact of environmental parameters "Northwest African upwelling area"
	Authors: Siham Salah et al.
	Keywords: Cape Ghir Filament, Copepods, Seasonal variation, Physicochemical parameters and Nutrients
R:27 Poster	Title: The Integrated Ecosystems Assessment Initiative – enabling the assessment of impacts on Large Marine Ecosystems: informatics to the forefront of science based decision support
	Authors: Massimo DiStefano, Peter Fox, Stace Beaulieu, and Andrew Maffei