

Theme Session on the Spatial Dimension of Ecosystem Structure and Dynamics (L)

Conveners: Maria Borges, Portugal, Jason Link, USA, and Einar Svendsen, Norway

Agenda and Order of the Day

Thursday 22 September 11.00–18.00 (Gordon B Room)

		Time
1.	Opening	11.00–11.10
2.	Introduction	
3.	Presentation of Papers	
<i>Code</i>	<i>Author(s) and title</i>	
L:26	<i>Sophie Bertrand, Erich Diaz, Boris Dewitte, Gordon Swartzman, Arnaud Bertrand, and Mariano Gutiérrez: From Kelvin waves to fishers' trajectories: evidences of multi-scales teleconnections in the Peruvian upwelling ecosystem</i>	11.10–11.30
L:01	<i>Elizabeth T. Methratta and Jason Link: Vital population rates across multiple spatial scales: A geostatistical analysis</i>	11.30–11.50
L:22	<i>James E. Overland and N. A. Bond: Upscaling unique ecosystem-climate relationships for the Bering Sea</i>	11.50–12.10
L:08	<i>Vlad Kostylev and Charles G. Hannah: Benthic habitat mapping: the habitat template approach</i>	12.10–12.30
	Lunch break	12.30–13.30
L:25	<i>A. Sinclair, K. Conway, and W. Crawford: Associations between bathymetric, geologic and oceanographic features and the distribution of the British Columbia groundfish trawl fishery</i>	13.30–13.50
L:19	<i>Yolanda Sagarminaga, Victoriano Valencia, and Angel Borja: Spatio-temporal distribution of phytoplankton in the Bay of Biscay (1998–2004)</i>	13.50–14.10
L:04	<i>Xabier Irigoien, A. Urtizberea, L. Zarauz, M. Santos, Y. Sagarminaga, P. Alvarez, and A. Uriarte: Factors affecting sardine and anchovy egg distribution in the Bay of Biscay</i>	14.10–14.30
L:16	<i>Mathieu Woillez, Pierre Petitgas, Jacques Rivoirard, Jean Charles Poulard, and Nicolas Bez: Indices for capturing spatial pattern and change across years of a fish population: an application on European hake (<i>Merluccius merluccius</i>) in the Bay of Biscay</i>	14.30–14.50
L:13	<i>Edwige Bellier, Grégoire Certain, Joël Chadœuf, Vincent Bretagnolle, and Pascal Monestiez: How foraging strategy influences the spatial pattern in seabird distribution: The case of Northern gannets in the Bay of Biscay</i>	14.50–15.10
L:24	<i>Esben Moland Olsen, W. Melle, S. Kaartvedt, J. C. Holst, and K. A. Mork: Distribution and feeding of herring (<i>Clupea harengus</i>) in the Norwegian Sea during spring, as determined from generalised additive models</i>	15.10–15.30

	Coffee break	15.30–16.00
L:03	<i>Aril Slotte, Arne Runde, Georg Skaret, Bjørn Erik Axelsen, Anders Fernö, Arne Johannessen, Leif Nøttestad, and Jan Tore Øvredal: Spatial and temporal overlap and trophic interactions between Atlantic saithe (<i>Pollachius virens</i>) and Norwegian spring-spawning herring (<i>Clupea harengus</i>) on herring spawning grounds</i>	16.00–16.20
L:21	<i>S. Vaz, C. S. Martin, B. Ernande, F. Coppin, S. Harrop, and A. Carpentier: Using geostatistics to quantify annual distribution and aggregation patterns of fishes in the Eastern English Channel</i>	16.20–16.40
L:05	<i>Arne Johannessen, Leif Nøttestad, Bjørn Erik Axelsen, Anders Fernö, Rune Vabø, and Jan Tore Øvredal: A natural “model” environment (MARE MINIMUM) for studies of ecosystem dynamics with emphasis on herring spawning dynamics</i>	16.40–17.00
L:10	<i>Jonathan Side and Paul Jowitt: Incorporating spatial dimension into descriptive fishery models</i>	17.00–17.20
L:23	<i>Pierre Petitgas and Sandrine Vaz: Investigating the interaction between population spatial organisation and population dynamics using an age-structured multi-site matrix model on anchovy in Biscay</i>	17.20–17.40
L:02	<i>Jason Link, William Overholtz, Jay O’Reilly, Jack Green, Elizabeth Methratta, David Dow, Debra Palka, Chris Legault, Steve Edwards, Gordon Waring, William Stockhausen, David Mountain, Joseph Vitaliano, Vincent Guida, Joe Kane, Jack Jossi, Michael Fogarty, and Jon Brodzia: An overview of EMAX: The Northeast U.S. continental shelf ecological network</i>	17.40–18.00

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Friday 23 September 10.30–12.30 (Gordon B Room)

	Opening	10.30–10.40
L:07	<i>Jacob I. Nogueira and Kevin D.E. Stokesbury</i> : Implications of marine protected areas on sea scallop recruitment in the Northwest Atlantic	10.40–11.00
L:11	<i>Fabio Pranovi</i> : The source-sink model and the fishing disturbance: a dynamic perspective	11.00–11.20
L:17	<i>Leonie Robinson, Simon Greenstreet, and Gerjan Piet</i> : The importance of including spatial dynamics in models of fisheries disturbance	11.20–11.40
L:09	<i>S.I. Rogers, P.D. Eastwood, C.A. Houghton, and C. Mills</i> : Developing a UK framework for defining the spatial interactions between human activities in the marine environment	11.40–12.00
L:06	<i>Tu H. Truong, Yue Jiao, Farhad Azadivar, and Brian J. Rothschild</i> : SMAST Decision Support System: a spatially quantitative tool for ecosystem fisheries management	12.00–12.20
	Posters	
L:20	<i>Beatriz Mendes</i> : Spatial distribution of seven species captured by bottom trawling in Algarve (Portuguese southern coast): using multivariate geostatistical methods	
L:35	<i>P. L. Luque, G. Hernandez Milian, M. Bulling, Kirstie Dyson, E.N. Ieno, G.J. Pierce, M. Solan, D. Raffaelli, and D. Paterson</i> : Biodiversity-ecosystem processes in heterogeneous environments	
L:31	<i>Michael C. Marino II and Kevin D. E. Stokesbury</i> : Impact of sea star predation on sea scallops in marine protected areas on Georges Bank	
L:33	<i>Monika Haugland, Jens Christian Holst, Marianne Holm, and Lars Petter Hansen</i> : Feeding of Atlantic salmon (<i>Salmo salar</i> L.) postsmolts in the Northeast Atlantic	
L:38	<i>Eveliina Lindén, Maiju Lehtiniemi, Sini Heino, and Markku Viitasalo</i> : Predator-prey interactions in a changing habitat: examples from Baltic littoral planktivores	
L:28	<i>Aida Campos, Paulo Fonseca, Tereza Fonseca, and Joaquim Parente</i> : Definition of fishing trip types in the bottom trawl fisheries off the Portuguese coast	
L:36	<i>Guillermo Boyra, Paula Alvarez, Unai Cotano, and Andres Uriarte</i> : Spatial onset of anchovy recruitment in the Bay of Biscay: JUVENA surveys	
L:37	<i>Fátima Cardador, Maria de Fátima Borges, Corina Chaves and Steve Groom</i> : Hake (<i>Merluccius merluccius</i> L.) spatial and temporal recruitment variability as a key species in the Portuguese upwelling ecosystem	

- L:27 *Evald Ojaveer and Margers Kalejs: The Baltic Sea as habitat*
- L:29 *Vadim A Shtrik: The changes of marine algae flora and phytocenoses of Barents Sea (Russian coast) as the indicator of climatic fluctuations of North Atlantic region*
- L:30 *Colm Lordan, Glen Nolan, Fiona FitzPatrick, and Richard Briggs: Using UWTV surveys to test conceptual ecosystem models of *Nephrops* population distributions*
- L:39 *Bradley P. Harris and Kevin D. E. Stokesbury: Mapping benthic substrate along the northwest Atlantic Ocean continental shelf with underwater video surveys*