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Theme Session I

Marine spatial planning: The multidisciplinary approach

Conveners: Vanessa Stelzenmüller, Germany, Eugene Nixon, Ireland, and Robert J. Brock

CM Code	
I:01 Oral	<p>Title: Marine spatial planning: achieving and evaluating integration</p> <p>Authors: Michelle Portman</p> <p>Keywords: boundary demarcation, integration, oceans policy, sectoral management</p>
I:02 Oral	<p>Title: Developing and testing approaches for marine spatial planning: the case of aquaculture.</p> <p>Authors: Lauren McWhinnie, Robert Briers, Ian Davies, Matthew Gubbins, and Teresa F. Fernandes.</p> <p>Keywords: marine spatial planning, zoning schemes, geographical information systems, aquaculture</p>
I:03 Oral	<p>Title: Planned Edge - integrating spatial planning across the land sea divide</p> <p>Authors: Kate R Johnson, Sandy A Kerr, and Jonathan C Side</p> <p>Keywords: Planning; Integration; Land sea divide</p>
I:04 Oral	<p>Title: Development of guidance for better integration of aquaculture, fisheries and other activities in coastal waters</p> <p>Authors: V. Stelzenmüller <i>et al.</i></p> <p>Keywords: integration of human uses, evaluation, GIS, monitoring, practical tools, spatial management measures</p>
I:05 Oral	<p>Title: Marine Spatial Planning in Practice</p> <p>Authors: Jeremy Collie <i>et al.</i></p> <p>Keywords: decision-support tools, marine spatial planning, performance assessment, policies, tradeoffs</p>
I:06 Oral	<p>Title: Quantitative incorporation of fishers' spatial access priorities into strategic conservation planning and fisheries management</p> <p>Authors: K. L. Yates and D. S. Schoeman</p> <p>Keywords: spatial management, protected areas, fisheries management, marine conservation, stakeholder engagement, strategic conservation planning</p>

[I:07](#)
[Oral](#) **Title:** Evaluating multifunctional use of offshore wind farms in the German EEZ - a GIS modelling approach

Authors: Antje Gimpel, Britta Grote, and Vanessa Stelzenmüller

Keywords: German EEZ, geographic information system (GIS), integrated multi-trophic aquaculture (IMTA), marine spatial planning (MSP), multi criteria evaluation (MCE), multifunctional use, offshore site selection, spatial management scenario

I:08
Oral **Withdrawn**

[I:09](#)
[Oral](#) **Title:** Can spatial management of human activities help robustly reaching management goals?

Authors: Loïc Gasche, Stéphanie Mahévas, Paul Marchal, Sigrid Lehuta, and Michel Desprez

Keywords: channel, spatial management, ISIS-Fish, habitats, dredging, windfarms, flat-fish fishery, interactions.

[I:10](#)
[Oral](#) **Title:** A decade of marine spatial planning in Belgium: a journey towards integrated management

Authors: Ellen Pecceu, An Cliquet, Frank Maes, and Kris Hostens

Keywords: marine spatial planning, governance, integrated management

[I:11](#)
[Oral](#) **Title:** Integrated maritime governance: applied consideration of existing legal frameworks

Authors: A. M. O'Hagan and J. Gault

Keywords: aquaculture and fisheries, integrated maritime governance, COEXIST project, interactions, law, institutions

[I:12](#)
[Oral](#) **Title:** Using a multi-disciplinary approach to quantify spatial overlap between deep diving seabirds and tidal stream turbines

Authors: J. J. Waggitt, B. J. Williamson, Ph. Blondel, P. S. Bell, and B. E. Scott

Keywords: offshore developments, marine renewable energy installations (MREI), seabirds, physical oceanography, marine ecology

[I:13](#)
[Oral](#) **Title:** Marine spaces: thought for food

Authors: Reg Watson *et al.*

Keywords: food security, marine resources, marine protected areas, fisheries productivity

[I:14](#)
[Oral](#) **Title:** GPS tracking of great skuas (*Stercorarius skua*) to investigate interactions with fisheries and marine renewable energy developments

Authors: H. M. Wade *et al.*

Keywords: vessel monitoring system, telemetry, marine protected areas, seabird behaviour, seabird distributions, movement ecology

I:15 Oral	Title: Lessons learned in Marine Spatial Planning (MSP): The Shetland experience
	Authors: Christina Kelly, Lorraine Gray, and Rachel Shucksmith
	Keywords: Shetland, marine, spatial plan, evaluation, monitoring

I:16 Oral	Title: Shetland Marine Spatial Plan: Developing spatial guidance for renewables
	Authors: Rachel Shucksmith, Lorraine Gray, Christina Kelly, iLaria Marengo, and Jacqueline Tweddle
	Keywords: Shetland, marine spatial plan, renewable energy, spatial guidance

I:17 Oral	Title: Towards an accurate mapping of diversity indices
	Authors: Nicolas Bez, Victoria Suntov, Jean-Marc Fromentin, and Bastien Mérigot
	Keywords: spatial distribution, diversity, richness, Rao's quadratic entropy, simulations

I:18 Oral	Title: Economic Impacts of Spatial management, a case study for the North Sea
	Authors: Bartelings, H., K. Hamon., E. Buisman, and H. van Oostenbrugge
	Keywords: spatial modelling, optimization

I:19 Oral	Title: Marine Spatial Planning in the Coastal North Sea – the COEXIST framework application as a mapping out approach
	Authors: Katrine Soma <i>et al.</i>
	Keywords: Coastal North Sea, COEXIST framework, decision support, marine spatial planning (MSP), spatial management, stakeholder consultation

I:20 Oral	Title: The need for an integrated management framework to support Maritime Spatial Planning
	Authors: J. Gault and A. M. O'Hagan
	Keywords: ICZM, aquaculture, marine renewable energy, participatory processes

I:21 Oral	Title: Spatial management strategies influence disease interactions and animal health
	Authors: Øivind Bergh <i>et al.</i>
	Keywords: diseases, spatial management measures, biosecurity, risk modulation

I:22 Oral	Title: Evaluation of spatial planning as a tool for integrated marine and coastal management: serious gaps and interesting opportunities
	Authors: Andrea Morf, Gonçalo Carneiro, Anders Grimvall, and Cecilia Lindblad
	Keywords: evaluation, marine spatial planning, integrative coastal management, ecosystem approach, Sweden

I:23 Oral	<p>Title: Towards an assessment of spatial interaction between human activities</p> <p>Authors: Youen Vermard, Paul Marchal, and Sigrid Lehuta</p> <p>Keywords: Fine scale data, spatial interactions, human activities, fish distribution</p>
I:24 Oral	<p>Title: Ecosystem based management – three context-specific dimensions of interaction between stakeholders</p> <p>Authors: Christine Röckmann, Judith van Leeuwen, David Goldsborough, Marloes Kraan, and Gerjan Piet</p> <p>Keywords: Ecosystem based management, governance perspective, participation, joint knowledge production, scientific policy advice</p>
I:25 Oral	<p>Title: Utilizing acoustic telemetry to develop spatial and temporal protection of the endangered Atlantic sturgeon</p> <p>Authors: Keith J. Dunton, Adrian Jordaan, Kim McKown, and Michael G. Frisk</p> <p>Keywords: Spatial management, human activities, fisheries, protected species</p>
I:26 Oral	<p>Title: Experiences from applying a generic framework for the monitoring and evaluation of spatially managed areas in nine case studies in EU sea basins</p> <p>Authors: Lene Buhl-Mortensen <i>et al.</i></p> <p>Keywords: Spatially Managed Areas, integrated framework, ecosystem components, human activities, conflict resolution</p>
I:27 Oral	<p>Title: Mapping fishing activity in Scotland's inshore waters – analytical approaches applied to data from fishery stakeholders</p> <p>Authors: Andronikos Kafas, Anne McLay, Marianna Chimienti, and Matt Gubbins</p> <p>Keywords: ScotMap, Inshore fisheries, mapping, fishery stakeholders, Scotland</p>
I:28 Oral	<p>Title: Interactions of commercial fisheries and marine renewable energy developments in Scottish waters</p> <p>Authors: Andronikos Kafas, Gareth Jones, Ian Davies, and Beth Scott</p> <p>Keywords: marine renewables, commercial fisheries, interactions, Scotland</p>
I:29 Oral	<p>Withdrawn</p>
I:30 Oral	<p>Title: The Maritime Spatial Planning – from planning for society to planning with society</p> <p>Authors: R. Aps, M. Kopti, and Ü. Suursaar</p> <p>Keywords: Baltic Sea, Maritime Spatial Planning, fisheries, transdisciplinarity, Mutual Learning, knowledge integration</p>
I:31 Oral	<p>Title: Integration at the round table – Marine Spatial Planning in multi-stakeholder settings</p> <p>Authors: E. Olsen, A. H. Hoel, D. L. Fluharty, F. Maes, and E. Pececu</p>

Keywords: Marine Spatial Planning, MSP, governance, integrated management, multi-stakeholder

[I:32](#) **Title:** Experimental forecasts of the ecological consequences of spatial management decisions: an experiment on sandeel and the Dogger Bank Natura 2000 process

[Oral](#)

Authors: David Goldsborough, Thomas Kirk Sørensen, and Asbjørn Christensen

Keywords: marine spatial planning, modelling, simulation, spatial management proposals, ecological effects

[I:33](#) **Title:** Using high-resolution fishing effort estimates in the design of protection measurements for vulnerable marine ecosystems

[Oral](#)

Authors: Julian M. Burgos, Stefán Á. Ragnarsson, and Steinunn H. Ólafsdóttir

Keywords: Cold-water corals, electronic logbooks, vessel monitoring system, marine protected areas

[I:34](#) **Title:** Integrating ecosystem considerations into marine spatial management of human activities

[Oral](#)

Authors: Jake Rice and Roland Cormier

Keywords: Risk assessment, risk management, marine spatial planning

[I:35](#) **Title:** Identification of essential habitats for demersal stocks, a first step towards the implementation of spatial planning for Mediterranean fisheries

[Oral](#)

Authors: F. Colloca *et al.*

Keywords: Mediterranean, spatial modelling, nurseries, EAF

[I:36](#) **Title:** Marine Spatial Planning in Action: Pentland Firth and Orkney Waters case study

[Poster](#)

Authors: Shona Turnbull, Tracy McCollin, and James Green

Keywords: marine spatial planning, Pentland Firth, Orkney, Scotland

I:37 **Withdrawn**

Poster

I:38 **Withdrawn**

Poster

I:39 Poster	<p>Title: Spatiotemporal overlap of oil spills and early life stages of fish</p> <hr/> <p>Authors: Frode B. Vikebø, Petter Rønningen, Vidar S. Lien, Sonnich Meier, Mark Reed, Bjørn Ådlandsvik, and Trond Kristiansen</p> <hr/> <p>Keywords: Individual-based model, ichthyoplankton, oil drift model, Oscar, Northeast Arctic cod, exposure, toxicity, Lofoten, polycyclic aromatic hydrocarbons</p>
I:40 Poster	<p>Title: PartiSEApate: Pan-Baltic Stakeholder Dialogues for a sea-basin approach towards MSP</p> <hr/> <p>Authors: Angela Schultz-Zehden</p> <hr/> <p>Keywords: stakeholder involvement, sector engagement, pan-Baltic view, climate change, underwater cultural heritage, mariculture</p>
I:41 Poster	<p>Title: The importance of collaborative research when making government level decisions: an example with top predators and marine renewable energy installations</p> <hr/> <p>Authors: Z. Allcock, A. M. C. Robbins, H. Wade, J. J. Waggitt, P. S. Bell, and B. E. Scott</p> <hr/> <p>Keywords: meta-analysis, offshore developments, marine renewable energy installations (MREI), seabirds, marine mammals. marine ecology</p>
I:42 Poster	<p>Title: Rationalisation of anthropogenic pressure data layer development for operational management: an example for physical change</p> <hr/> <p>Authors: Alexander Koch and Freya Goodsir</p> <hr/> <p>Keywords: Anthropogenic Pressure, Physical change to sea bed type, human activities, marine spatial planning, footprint</p>
I:43 Poster	<p>Title: FLOWBEC: Long-term measurements of the environment around marine renewable energy devices</p> <hr/> <p>Authors: B. J. Williamson, Ph. Blondel, J. J. Waggitt, P. S. Bell, and B. E. Scott</p> <hr/> <p>Keywords: Marine renewable energy, environmental monitoring, remote sensing, underwater acoustics, multibeam sonar, seabirds, foraging ecology, physical oceanography</p>
I:44 Poster	<p>Withdrawn</p>
I:45 Poster	<p>Withdrawn</p>

[I:46](#) **Title:** Effects of trawling impacts on mega-epibenthic communities from heavy exploited to undisturbed areas in a Mediterranean fishing ground (Central Mediterranean Sea).
[Poster](#)

Authors: M. Cristina Mangano *et al.*

Keywords: ecosystem management, Fishery Exclusion Zones, VMS, Southern Tyrrhenian Sea

[I:47](#) **Title:** Marine spatial planning on the Dogger Bank: Reflections on the cross border spatial planning process for the adjoining Natura 2000 sites
[Poster](#)

Authors: David Goldsborough

Keywords: cross border spatial planning process, stakeholder participation, dialogue, role of actors, terms of reference

I:48 **Withdrawn**
Poster

[I:49](#) **Title:** Marine spatial planning & management in the Southern North Sea
[Poster](#) Leadership and transparency (can) make the difference

Authors: Christine Röckmann *et al.*

Keywords: MSP, North Sea, governance, uncertainty, transparency
