### Theme Session E: Marine spatial planning in support of integrated management – tools, methods, and approaches

**Conveners:** Stuart Rogers (UK), Robert O’Boyle (Canada), Glen Jamieson, PICES (Canada), and Tana Worcester (Canada)

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<th>Authors, Title, and Keywords:</th>
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| E:01 | **Authors:** A. S. M. Vanderlaan, C. T. Taggart, and M. W. Brown  
**Title:** A practical example of a successful strategic approach to marine spatial analyses and minimising spatial conflict: How not to kill whales with vessels  
**Keywords:** spatial conflict, vessel, whale, risk, lethal encounter, mitigation, implementation |
| E:02 | **Authors:** Vanessa Stelzenmüller, John Aldridge, and Stuart Rogers  
**Title:** Comparing patterns of fishing pressure and natural disturbance on UK marine landscapes and their implications for marine spatial planning  
**Keywords:** GIS, fishing pressure dynamics, marine spatial planning, marine landscapes, VMS |
| E:03 | **Authors:** S. Vaz, J. Delavenne, R. J. Smith, C. S. Martin, L. Dupuis, F. Coppin, A. Carpentier  
**Title:** Comparative study of conservation planning strategies: a case study in the Eastern English Channel using MARXAN and ZONATION softwares  
**Keywords:** Eastern English Channel, MPA, Conservation planning, decision support software |
| E:04 Extended Abstract | **Authors:** H.-H. Hinrichsen, B. Huwer, M. Schaber, and G. Kraus  
**Title:** Marine Protected Areas as a fisheries management tool for eastern Baltic cod: coupling of observational data with hydrodynamic model simulations  
**Keywords:** Baltic cod, Marine Protected Areas, Fisheries Simulation model |
| E:05 | **Authors:** C. T. Taggart, K. R. Smedbol, and A. S. M. Vanderlaan  
**Title:** A practical example of a successful strategic approach to marine spatial analyses and minimising spatial conflict: How not to entangle whales in fishing gear  
**Keywords:** spatial conflict, fishing gear, whale, threat, entanglement, mitigation, implementation |
| E:06 | **Authors:** Wesley Flannery, Eugene Nixon, and Micheál Ó Cinnéide  
**Title:** Preparing the ground for marine spatial planning in Ireland  
**Keywords:** Marine Spatial Planning; Marine Resources; Ireland; Integrated Maritime Governance |
| E:07 | **Authors:** Eugeniusz Andrulewicz and Zbigniew Otremba  
**Title:** Existing and planned technical installations in the Baltic Sea as an emerging pressure on marine environment and the key component for the marine spatial planning |
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<td><strong>Keywords</strong>: Baltic Sea, marine spatial planning, large-scale technical installations, maritime regulations</td>
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| E:08 | **Authors**: D. C. Gordon Jr., E. L. R. Kenchington, and K. D. Gilkinson  
**Title**: A Canadian example of using spatial management to minimize the impacts of trawling on benthic communities  
**Keywords**: spatial management, distribution of fishing effort, benthic impacts of fishing, deep-water corals, fishing closures |
| E:09 | **Authors**: B. D. Chang, F. H. Page, R. J. Losier, and D. A. Greenberg  
**Title**: Use of a GIS for decision support in coastal zone management in the southwestern New Brunswick portion of the Bay of Fundy  
**Keywords**: coastal zone management, aquaculture, decision support |
| E:10 | **Authors**: Janet Nye and Jason Link  
**Title**: Meta-analysis of changing spatial distribution of Northwest Atlantic fish and invertebrate stocks in relation to temperature and stock structure  
**Keywords**: |
| E:11 | **Authors**: Vladimir E. Kostylev, Brian J. Todd, John Shaw, and Richard A. Pickrill  
**Title**: Seabed mapping for Integrated Spatial Management  
**Keywords**: seabed mapping, geological interpretation, habitat management |
| E:12 | **Author**: Anthony Charles  
**Title**: Linking Marine Protected Areas, Fisheries and Integrated Ocean Management  
**Keywords**: |
| E:13 | **Authors**: Jennifer L. Smith, John Crawford, Hussein Alidina, Robert Rangeley, Marty King, John Roff, and Ken Larade  
**Title**: Implementing networks of MPAs in Canadian waters: do we really know enough to proceed? Lessons from a proof of concept study in the Scotian Shelf and Gulf of Maine  
**Keywords**: MPAs, Marine Protected Areas, MPA networks, systematic conservation planning, Scotian Shelf, Gulf of Maine |
| E:14 | **Author**: Erik Olsen  
**Title**: Identifying particularly valuable and vulnerable areas: a key tool for the integrated management plans for the Barents Sea and Norwegian Sea  
**Keywords**: Barents Sea, Norwegian Sea, value, vulnerability, area-based, integrated management, ecosystem-based-management |
| E:15 | **Authors**: Ulf Bergström, Alfred Sandström, Göran Sundblad, and Lena Bergström  
**Title**: A method for assessing the ecological coherence of an MPA network with regard to fish  
**Keywords**: essential fish habitats, habitat suitability modelling, Baltic Sea, connectivity, MPA network |
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| E:16 | **Authors:** Alida Bundy, Nancy Shackell, Janet Nye, Kevin Friedland, and Jason Link  
**Title:** Poissons sans frontiers: Comparing contiguous surveys for major ecological and commercial species in the Northwest Atlantic, with a focus on trends, synchronies and coherences  
**Keywords:** |
| E:17 | **Author:** Jake Rice  
**Title:** The use of criteria for assessing ecological and biological significance in setting conservation objectives for integrated management  
**Keywords:** |
| E:18 | **Authors:** Heino Fock, Anne Sell, and Jake Rice  
**Title:** Fisheries and marine spatial planning in German offshore waters - resolving spatial conflict issues  
**Keywords:** MPA, Natura 2000, fishing effort, fishing impact, area closures. |
| E:19 | **Authors:** Lars Føyn and Inger Oline Røsvik  
**Title:** Lessons learnt from developing and implementing integrated management plans in Norwegian waters  
**Keywords:** Integrated management plans, from scientific knowledge to political decisions |
| E:20 | **Authors:** J. S. Ault, J. A. Bohnsack, S. G. Smith, J. Luo, and G. T. Kellison  
**Title:** Use of marine spatial pPlanning to build sustainable multispecies fisheries in the Florida, USA, coral reef ecosystem  
**Keywords:** marine spatial planning, coral-reef fishery ecosystems, exploitation, Florida Keys |
| E:21 | **Authors:** L. A. Robinson, C. L. J. Frid, and S. I Rogers  
**Title:** Weighing up the ecological vulnerability of marine components to different pressures: a critical element of marine spatial planning  
**Keywords:** ecological sensitivity, marine pressures, sustainability, resistance, resilience, marine spatial planning |
| E:22 | Withdrawn |
| E:23 | **Authors:** Thomas Noji, Steven Fromm, and Suellen Fromm  
**Title:** Habitat suitability modeling using the Kostylev approach in support of fisheries management  
**Keywords:** habitat, mapping, model, fish, fisheries |
| E:24 | **Authors:** Fanny Douvere and Charles Ehler  
**Title:** Marine spatial planning: A promising new paradigm for applying an integrated, ecosystem approach to ocean management  
**Keywords:** |
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| E:25 | **Author:** A. Jordaan  
**Title:** Using multivariate derived indicators of biodiversity as a tool for marine spatial planning: designating boundaries in time and space  
**Keywords:** |
| E:26 | **Authors:** Simon Northridge, Al Kingston, and Alice Mackay.  
**Title:** Keeping vulnerable mammals away from fishing grounds: an assessment of the extent of the area required to protect cetaceans from bycatch  
**Keywords:** |
**Title:** Integrated approaches to assessment of seabed habitat & biodiversity in support of management on the continental shelf of the Great Barrier Reef.  
**Keywords:** |
| E:28 | **Authors:** Eugene Nixon et al  
**Title:** Developments in national marine spatial planning systems within the OSPAR maritime area  
**Keywords:** marine spatial planning, OSPAR. |
| E:29 | **Authors:** Jo Foden, Stuart I. Rogers, and Andrew P. Jones  
**Title:** Assessing the performance of marine plans  
**Keywords:** Marine Spatial Planning, environmental assessment, objectives, sustainability appraisal, performance assessment |
| E:30 | **Authors:** Hans Mose Jensen and Carlos Pinto  
**Title:** ICES EcoSystemData - Providing data for the ecosystem approach  
**Keywords:** |
| E:31 | **Authors:** Tim Hall, Melanie Hurlburt and Glen Herbert  
**Title:** Marine spatial planning on the Scotian Shelf  
**Keywords:** |
| E:32 | Withdrawn |
| Posters | **Authors:** Rozita Sharifipour and Afshin Danehrak  
**Title:** Application of spatial multi criteria evaluation with AHP method for coastal sensitivity assessment  
**Keywords:** |
<p>| E:33 | Withdrawn |</p>
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| E:35 | **Authors:** F. van der Hulst, G. J. Piet, and N. Hintzen  
**Title:** Requirements of VMS for assessing the impact of fishing  
**Keywords:** |
| E:36 | Withdrawn |
| E:37 | **Authors:** Marijn Rabaut, Steven Degraer, Jan Schrijvers, Sofie Derous, Dirk Bogaert, Frank Maes, Magda Vincx, and An Cliquet  
**Title:** Policy analysis of the ‘MPA-process’ in temperate continental shelf areas  
**Keywords:** |
| E:38 | Withdrawn |
| E:39 | Withdrawn |
| E:40 | **Authors:** N. T. Hintzen and T. Brunel  
**Title:** Interpolation of vessel trajectory from Vessel Monitoring System data  
**Keywords:** |
| E:41 | Withdrawn |
| E:42 | **Authors:** Alida Bundy, Jason Link, Brian Smith, and Adam Cook  
**Title:** You are what you eat … whenever you eat it: an integrative analysis of fish food habits across different seasons in eastern US and Canadian waters  
**Keywords:** |
| E:43 | Withdrawn |
| E:44 | **Extended Abstract**  
**Authors:** Robert Aps, J. Kotta, and K. Herkül  
**Title:** Baltic fisheries as a spatial resource  
**Keywords:** Essential Fish Habitats, Baltic herring, multi-scale systems |
**Title:** Bycatch of seabirds on longlines in the north-east Atlantic and Mediterranean Sea  
**Keywords:** |
| E:46 | **Authors:** Marine Spatial Planning in the Nordic Region: Perspectives, Challenges and Opportunities  
**Title:** T.K. Sørensen, M. Blæsbjerg, and O. Vestergaard  
**Keywords:** |