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## Theme Session B

### The science and tools for the management of networks of Marine Protected Areas

Conveners: Henrique Queiroga (Portugal), Helen Bailey (USA), and Elsa Vázquez Otero (Spain)

CM Code	Oral Presentations	
<a href="#">B: 01</a> <a href="#">Oral</a>	<b>Title:</b>	Wandering Mussels: using natural tags to identify connectivity matrices amongst Marine Protected Areas
	<b>Authors:</b>	Inês Gomes, Laura G. Peteiro, Rui Albuquerque, Steve E. Swearer, Henrique Queiroga
	<b>Keywords:</b>	
B: 02 Oral	<b>Title:</b>	Identification and management implications of whale movement corridors and connectivity among a network of marine protected areas
	<b>Authors:</b>	Helen Bailey, Bruce Mate, Ladd Irvine, Daniel Palacios, Elliott Hazen, Steven Bograd, Karin Forney and Evan Howell
	<b>Keywords:</b>	Marine Protected Areas, Seascape Ecology, Habitat Model, Top Predators, National Marine Sanctuaries
B: 03 Oral	<b>Title:</b>	Post-breeding season migration patterns of a top predator, the harbor seal ( <i>Phoca vitulina richardii</i> ), from a marine protected area in Alaska
	<b>Authors:</b>	Jamie Womble and Scott Gende
	<b>Keywords:</b>	marine protected area, pinniped, harbor seal, migration, site fidelity, conservation
B: 04 Oral	<b>Title:</b>	Towards the development of an MPA network of in the Gulf of Mexico; modeling larval drift, connectivity, and source/sink regions.
	<b>Authors:</b>	Michael Drexler and Cameron H. Ainsworth
	<b>Keywords:</b>	Population Connectivity, Ecosystem model, MPA, Atlantis
<a href="#">B: 05</a> <a href="#">Oral</a>	<b>Title:</b>	Effects of marine protected areas, environmental conditions, and biological interactions on the abundance of echinoderms on Georges Bank
	<b>Authors:</b>	Judith Rosellon-Druker & Kevin D.E. Stokesbury
	<b>Keywords:</b>	MPA, predator-prey interactions, essential habitat, spatial analysis, Ecosystem Based Fisheries Management
<a href="#">B: 06</a> <a href="#">Oral</a>	<b>Title:</b>	MPA design: modelling species distribution with ENFA and MADiFA approaches
	<b>Authors:</b>	Sánchez-Carnero, N., Rodríguez-Pérez, D., Couñago, E., Le Barzik, F., Freire, J.
	<b>Keywords:</b>	Marine protected area, habitat suitability, ENFA, MaDiFA



<b>CM Code</b>	<b>Oral Presentations</b>	
B: 07 Oral	<b>Title:</b>	Combining multispecies home range and distribution models to evaluate the optimal design of MPAs
	<b>Authors:</b>	David Abecasis, Pedro Afonso & Karim Erzini
	<b>Keywords:</b>	marine reserve; acoustic telemetry; species distribution models; vulnerability to fishing
<a href="#">B: 08</a> <a href="#">Oral</a>	<b>Title:</b>	Maerl beds in Galician Marine Protected Areas. How the scientific research can contribute to their management.
	<b>Authors:</b>	Viviana Peña, Rodolfo Barreiro, Ignacio Bárbara, Javier Cremades, Pilar Díaz, Cristina Pardo, Lúa López, Belén Carro, Cristina Piñeiro, Verónica Garcí
	<b>Keywords:</b>	biogenic habitats, conservation, maerl beds, management
<a href="#">B: 09</a> <a href="#">Oral</a>	<b>Title:</b>	The MPA "Parc naturel marin d'Iroise" (France, Brittany), a zone of high conservation value for kelp forest biodiversity
	<b>Authors:</b>	Marine Robuchon, Lucía Couceiro, Régis Gallon, Line Le Gall & Myriam Valero
	<b>Keywords:</b>	genetic tools, Laminaria digitata, Laminaria hyperborea, seaweed communities, species distribution modelling, refuge area
<a href="#">B: 10</a> <a href="#">Oral</a>	<b>Title:</b>	Marine protected areas in the Atlantic Arc: "paper reserves" or effective management tools?
	<b>Authors:</b>	Inmaculada Álvarez-Fernández (1), Nuria Fernández (1) and Juan Freire (2)
	<b>Keywords:</b>	marine reserves, MPA, management, performance, Atlantic Arc
B: 11 Oral	<b>Withdrawn</b>	
<a href="#">B: 12</a> <a href="#">Oral</a>	<b>Title:</b>	Adaptive management based on monitoring of marine protected areas in California
	<b>Authors:</b>	L.W. Botsford, J.W. White, E.A. Moffitt, K.J. Nickols, M. E. Carr, F. Cordoleani, L. A. K. Barnett, M. L. Baskett, and A. Hastings
	<b>Keywords:</b>	marine protected areas, monitoring, adaptive management
<a href="#">B: 13</a> <a href="#">Oral</a>	<b>Title:</b>	FishSET: a spatial economics toolbox to better incorporate fisher behavior into fisheries management
	<b>Authors:</b>	Alan Haynie
	<b>Keywords:</b>	Fleet behavior, location choice, software, model comparison, marine protected areas
B: 14 Oral	<b>Title:</b>	Taking into account medium term impact of conservation measures on mixed fisheries across the MPA network in the Eastern English Channel for conservation planning
	<b>Authors:</b>	Yves Reecht, Sigrid Lehuta, Loïc Gasche, Sandrine Vaz, Stéphanie Mahévas, Robert J Smith and Paul Marchal
	<b>Keywords:</b>	MPAs, systematic conservation planning, fleet dynamics, model coupling, Eastern English Channel

<b>CM Code</b>	<b>Oral Presentations</b>	
B: 15 Oral	<b>Withdrawn</b>	
<a href="#">B: 16</a> <a href="#">Oral</a>	<b>Title:</b>	Baie ny Carrickey Closed Area: Managing fishermen to manage Marine Protected Areas
	<b>Authors:</b>	Isobel Bloor, Peter Duncan, Sam Dignan, Lee Murray and Michel Kaiser
	<b>Keywords:</b>	MPA, Closed Areas, Crustaceans
<a href="#">B: 17</a> <a href="#">Oral</a>	<b>Title:</b>	Fisheries management measures in an MPA: socioeconomic impact assessment and governance issues in the case of the German small scale gillnet fisheries around the island of Fehmarn in the Baltic Sea
	<b>Authors:</b>	Leyre Goti
	<b>Keywords:</b>	MPA, small scale fisheries, Baltic Sea, economic impact assessment, governance
<a href="#">B: 18</a> <a href="#">Oral</a>	<b>Title:</b>	Ramsey Marine Nature Reserve Fisheries Management Zone: A novel approach to mitigating the socioeconomic impacts of an MPA
	<b>Authors:</b>	Sam Dignan, Isobel Bloor, Peter Duncan, Michel Kaiser, Lee Murray & Kevin Kennington
	<b>Keywords:</b>	Marine Nature Reserve, Cooperation, Ecosystem Capital, Fuel Costs
B: 19 Oral	<b>Title:</b>	Changes in species abundance, richness, diversity and community structure after three years of protection. Protection evidences?
	<b>Authors:</b>	Fernández-Márquez D, Pita P, Alborés N , Fernández-Rodríguez N and Muiño R
	<b>Keywords:</b>	marine protected areas, community structure, protection effects, marine fishery reserve, Galicia; Atlantic coast, multivariate analysis
<a href="#">B: 20</a> <a href="#">Oral</a>	<b>Title:</b>	A Question of Scale: Evaluating the impact of marine protected areas off of New England on groundfish productivity
	<b>Authors:</b>	Lisa A. Kerr, Jake Kritzer, Steven X. Cadrin
	<b>Keywords:</b>	marine protected areas, groundfish, spatial and temporal scale



CM Code	Posters	
<a href="#">B: 21</a> <a href="#">Poster</a>	<b>Title:</b>	Predicting diversity hot-spots using data from scientific fisheries surveys
	<b>Authors:</b>	A.K. Miriam Püts, W. Nikolaus Probst, Kay Panten
	<b>Keywords:</b>	biodiversity, species distribution, distribution models, GAM fisheries surveys, ecological monitoring
<a href="#">B: 22</a> <a href="#">Poster</a>	<b>Title:</b>	Seabed mapping and Vulnerable Marine Ecosystems protection in the high-seas fisheries: Four case studies on progress in the Atlantic Ocean
	<b>Authors:</b>	P. Durán Muñoz, M. Sacau, J.L. Del Río, L.J. López-Abellán and R. Sarralde
	<b>Keywords:</b>	Atlantic Ocean, bottom fisheries, closed areas, habitat mapping, high-seas, protection, Vulnerable Marine Ecosystems
B: 23 Poster	<b>Title:</b>	Unraveling the role of marine fin-fish farms on the design, implementation, and management of networks of protected areas for the conservation of marine top predators.
	<b>Authors:</b>	Bruno Díaz López
	<b>Keywords:</b>	MPAs, marine aquaculture, top predators, coastal conservation
<a href="#">B: 24</a> <a href="#">Poster</a>	<b>Title:</b>	The effect of consumers' depletion on the resistance of the seagrass <i>Posidonia oceanica</i> to the invasion of the macroalga <i>Caulerpa racemosa</i> in a Mediterranean MPA
	<b>Authors:</b>	Sarah Caronni, Chiara Calabretti, Maria Anna Delaria, Giuseppe Bernardi, Augusto Navone, Anna Occhipinti-Ambrogi, Pieraugusto Panzalis, Giulia Ceccher
	<b>Keywords:</b>	Marine protected area, predation, spread, resistance, <i>Caulerpa racemosa</i> , <i>Posidonia oceanica</i>
<a href="#">B: 25</a> <a href="#">Poster</a>	<b>Title:</b>	Spear fishing ban in MPAs: the rational choice?
	<b>Authors:</b>	Pablo Pita and Diana Fernández-Márquez
	<b>Keywords:</b>	MPA, spearfishing, biological impacts, economic benefits
<a href="#">B: 26</a> <a href="#">Poster</a>	<b>Title:</b>	Habitat characterization of intertidal populations of the purple sea urchin, <i>Paracentrotus lividus</i> (Lamarck, 1816), in north Portugal
	<b>Authors:</b>	Rula Domínguez, José Manuel Parada Encisa, Iacopo Bertocci
	<b>Keywords:</b>	sea urchin, <i>Paracentrotus lividus</i> , intertidal, rock pools, spatial scale
<a href="#">B: 27</a> <a href="#">Poster</a>	<b>Title:</b>	Evaluating the efficiency of no-take areas to restore fish stocks – the Swedish experience
	<b>Authors:</b>	A.-B. Florin, L. Bergström, U. Bergström.
	<b>Keywords:</b>	MPA, no-take zones, Licknevarpefjärden, Gotska Sandön
<a href="#">B: 28</a> <a href="#">Poster</a>	<b>Title:</b>	A benign technique for mapping coral distribution in the closed areas of the Rockall Plateau
	<b>Authors:</b>	Fiona D. McIntyre, Francis Neat, and Paul G. Fernandes
	<b>Keywords:</b>	Cold-water coral, towed camera, geostatistics



CM Code	Posters
<a href="#">B: 29</a> <a href="#">Poster</a>	<p><b>Title:</b> Using elemental microchemistry, fatty acid profile and geometric morphometrics to identify goose barnacle origin</p> <p><b>Authors:</b> Albuquerque R., Queiroga H., Correia C.R., Calado R. and Leandro S.M.</p> <p><b>Keywords:</b> Goose barnacle; ICP-MS; Fatty acid profile; Geometric morphometrics; Source of origin; Discriminant function analysis</p>
<a href="#">B: 30</a> <a href="#">Poster</a>	<p><b>Withdrawn</b></p>
<a href="#">B: 31</a> <a href="#">Poster</a>	<p><b>Title:</b> A new method for assessing the underwater seascape for marine tourism management in Marine Protected Areas</p> <p><b>Authors:</b> Cristina Piñeiro-Corbeira, Raquel de la Cruz Modino, Mercedes Olmedo &amp; Rodolfo Barreiro</p> <p><b>Keywords:</b> Marine Protected Areas, Underwater seascape, Perceptible Seascape Elements, Potential Observation Index, Snorkeling</p>
<a href="#">B: 32</a> <a href="#">Poster</a>	<p><b>Title:</b> Using acoustic telemetry to measure fine-scale movement and interactions of marine animals: implications for Marine Protected Areas</p> <p><b>Authors:</b> J.E. Ehrenberg, T.W. Steig, C.H. Greene, I. Brosnan</p> <p><b>Keywords:</b> acoustic telemetry, fine-scale movement, species interaction</p>
<a href="#">B: 33</a> <a href="#">Poster</a>	<p><b>Title:</b> Digital image-based Area/Weight-Models improve weight estimates of important North Sea fish</p> <p><b>Authors:</b> Krau, Florian; Hammann, Sven; Gröger, Joachim</p> <p><b>Keywords:</b> Whiting (<i>Merlangius merlangus</i>), Atlantic Cod (<i>Gadus morhua</i>), Area-Weight-Model, digital imaging</p>
B: 34 Poster	<p><b>Title:</b> Mismatch between biological, exploitation, and governance scales and ineffective management of sea urchin (<i>Paracentrotus lividus</i>) fisheries in Galicia</p> <p><b>Authors:</b> Rosana Ouréns, Inés Naya, Juan Freire</p> <p><b>Keywords:</b> Metapopulation, Denso-dependency, Lo, Sea urchin, Spatial structure, Rotations, Reserve networks</p>
B: 35 Poster	<p><b>Title:</b> Inventory and Designation of Marine Natura 2000 Areas in the Spanish Seas, the LIFE+ INDEMARES project</p> <p><b>Authors:</b> David Peña</p> <p><b>Keywords:</b> .</p>