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)

Agenda and Orders of the Day for:

Monday 15 September 2014, 16:30–19:00 – Modular Room 1 Tuesday 16 September 2014, 10:30–18:00 – Modular Room 1

- 1) Opening and introduction
- 2) Appointment of rapporteur
- 3) Presentation of papers

СМ	Time
Code	

MONDAY 15 SEPTEMBER 2014, 16:30–19:00 – Modular Room 1

B:01	Title:	Wandering Mussels: using natural tags to identify connectivity	
Oral		matrices amongst Marine Protected Areas	16:45
	Authors:	Inês Gomes, Laura G. Peteiro, Rui Albuquerque, Steve E. Swearer,	_
		and Henrique Queiroga	
	Keywords:	natal source, trace element chemistry, Mytilus, elemental	
		fingerprinting, LA-ICPMS, population connectivity	
B: 02	Title:	Identification and management implications of whale movement	
Oral		corridors and connectivity among a network of marine protected	
		areas	17:00
	Authors:	Helen Bailey, Bruce Mate, Ladd Irvine, Daniel Palacios, Elliott	
		Hazen, Steven Bograd, Karin Forney and Evan Howell	
	Keywords:	marine protected areas, seascape ecology, habitat model, top	
		predators, national marine sanctuaries	
B: 03	Title:	Post-breeding season migration patterns of a top predator, the	
Oral		harbor seal (Phoca vitulina richardii), from a marine protected area	
		in Alaska	17:15
	Authors:	Jamie Womble and Scott M. Gende	
	Keywords:	marine protected area, pinniped, harbor seal, migration, site	
		fidelity, conservation	
B: 04	Title:	Towards the development of an MPA network of in the Gulf of	
Oral		Mexico; modeling larval drift, connectivity, and source/sink	
		regions.	17:30
	Authors:	Michael Drexler and Cameron H. Ainsworth	
	Keywords:	population connectivity, ecosystem model, MPA, Atlantis	_

16:30

B: 05	Title:	Effects of marine protected areas, environmental conditions, and	
Oral		biological interactions on the abundance of echinoderms on	
		Georges Bank	17:45
	Authors:	Judith Rosellon-Druker and Kevin D.E. Stokesbury	_
	Keywords:	MPA, predator-prey interactions, essential habitat, spatial analysis,	-
		Ecosystem Based Fisheries Management	
B: 06	Title:	MPA design: modelling species distribution with ENFA and	
Oral		MADIFA approaches	18:00
	Authors:	N. Sánchez-Carnero, D. Rodríguez-Pérez, E. Couñago, F. Le Barzik,	-
		F. and J. Freire	_
	Keywords:	marine protected area, habitat suitability, ENFA, MaDiFA	_
B: 07	Title:	Combining multispecies home range and distribution models to	
Oral		evaluate the optimal design of MPAs	18:15
	Authors:	David Abecasis, Pedro Afonso, and Karim Erzini	_
	Keywords:	marine reserve, acoustic telemetry, species distribution models,	_
		vulnerability to fishing	
B: 08	Title:	Maerl beds in Galician Marine Protected Areas. How the scientific	
Oral		research can contribute to their management	18:30
	Authors:	Viviana Peña, Rodolfo Barreiro, Ignacio Bárbara, Javier Cremades,	
		Pilar Díaz, Cristina Pardo, Lúa López, Belén Carro, Cristina	
		Piñeiro, and Verónica García	_
	Keywords:	biogenic habitats, conservation, maerl beds, management	
B: 09	Title:	The MPA "Parc naturel marin d'Iroise" (France, Brittany), a zone of	
Oral		high conservation value for kelp forest biodiversity	18:45
	Authors:	Marine Robuchon, Lucía Couceiro, Régis Gallon, Line Le Gall, and	-
		Myriam Valero	_
	Keywords:	genetic tools, Laminaria digitata, Laminaria hyperborea, seaweed	
		communities, species distribution modelling, refuge area	

TUESDAY 16 SEPTEMBER 2014, 10:30–18:00 – Modular Room 1

B: 10	Title:	Marine protected areas in the Atlantic Arc: "paper reserves" or	
Oral		effective management tools?	10:30
	Authors:	Inmaculada Álvarez-Fernández, Nuria Fernández, and Juan Freire	_
	Keywords:	marine reserves, MPA, management, performance, Atlantic Arc	-
B: 11		Withdrawn	
Oral			10:45
B: 12	Title:	Adaptive management based on monitoring of marine protected	
Oral		areas in California	11:00
	Authors:	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	_
	Keywords:	marine protected areas, monitoring, adaptive management	
B: 13	Title:	FishSET: a spatial economics toolbox to better incorporate fisher	
Oral		behavior into fisheries management	11:15
	Author:	Alan Haynie	-
	Keywords:	fleet behavior, location choice, software, model comparison, marine	_
		protected areas	

B: 14	Title:	Taking into account medium term impact of conservation	
Oral		measures on mixed fisheries across the MPA network in the	11.00
	A	Eastern English Channel for conservation planning	11:30
	Authors:	Yves Reecht, Sigrid Lehuta, Loïc Gasche, Sandrine Vaz, Stéphanie	
	Variation	Mahévas, Robert J Smith, and Paul Marchal	
	Keywords:	MPAs, systematic conservation planning, fleet dynamics, model	
B: 15		coupling, Eastern English Channel	
Oral		Withdrawn	
B: 16	Title:	Baie ny Carrickey Closed Area: Managing fishermen to manage	
Oral		Marine Protected Areas	11:45
	Authors:	Isobel Bloor, Peter Duncan, Sam Dignan, Lee Murray, and Michel	
		Kaiser	
	Keywords:	MPAs, closed areas, crustaceans	
B: 17	Title:	Fisheries management measures in an MPA: socioeconomic impact	
Oral		assessment and governance issues in the case of the German small	
		scale gillnet fisheries around the island of Fehmarn in the Baltic Sea	12:00
	Author:	Leyre Goti	
	Keywords:	MPA, small scale fisheries, Baltic Sea, economic impact assessment,	
	2	governance	
B: 18	Title:	Ramsey Marine Nature Reserve Fisheries Management Zone: A	
Oral		novel approach to mitigating the socioeconomic impacts of an	
		MPA	12:15
	Authors:	Sam Dignan, Isobel Bloor, Peter Duncan, Michel Kaiser, Lee	
		Murray, and Kevin Kennington	
	Keywords:	marine nature reserve, cooperation, ecosystem capital, fuel costs	
B: 19	Title:	Changes in species abundance, richness, diversity and community	
Oral		structure after three years of protection. Protection evidences?	12:30
	Authors:	D. Fernández-Márquez, P. Pita, N. Alborés, N. Fernández-	
		Rodriguez, and R. Muiño	
	Keywords:	marine protected areas, community structure, protection effects,	
		marine fishery reserve, Galicia; Atlantic coast, multivariant analysis	
		Discussion	12:45
		LUNCH	
B: 20	Title:	A Question of Scale: Evaluating the impact of marine protected	
Oral		areas off of New England on groundfish productivity	15:00
	Authors:	Lisa A. Kerr, Jake Kritzer, and Steven X. Cadrin	
	Keywords:	marine protected areas, groundfish, spatial and temporal scale	
B: 21	Title:	Predicting diversity hot-spots using data from scientific fisheries	
Poster		surveys	15:15
	Authors:	A.K. Miriam Püts, W. Nikolaus Probst, and Kay Panten	
	Keywords:	biodiversity, species distribution, distribution models, GAM	
		fisheries surveys, ecological monitoring	

B: 22	Title:	Seabed mapping and Vulnerable Marine Ecosystems protection in	
Poster		the high-seas fisheries: Four case studies on progress in the Atlantic Ocean	15:17
	Authors:	P. Durán Muñoz, M. Sacau, J.L. Del Río, L.J. López-Abellán, and R.	
		Sarralde	
	Keywords:	Atlantic Ocean, bottom fisheries, closed areas, habitat mapping,	-
	2	high-seas, protection, Vulnerable Marine Ecosystems	
3: 23	Title:	Unravelling the role of marine fin-fish farms on the design,	
Poster		implementation, and management of networks of protected areas	
		for the conservation of marine top predators	15:19
	Author:	Bruno Díaz López	-
	Keywords:	MPAs, marine aquaculture, top predators, coastal conservation	
B: 24	Title:	The effect of consumers' depletion on the resistance of the seagrass	
Poster		Posidonia oceanica to the invasion of the macroalga Caulerpa	
		racemosa in a Mediterranean MPA	15:21
	Authors:	Sarah Caronni, Chiara Calabretti, Maria Anna Delaria, Giuseppe	
		Bernardi, Augusto Navone, Anna Occhipinti-Ambrogi,	
		Pieraugusto Panzalis, and Giulia Ceccherelli	-
	Keywords:	Marine protected area, predation, spread, resistance, <i>Caulerpa</i>	
B: 25	Title:	<i>racemosa, Posidonia oceanica</i> Spear fishing ban in MPAs: the rational choice?	45.00
			15:23
Poster	Authors:	Pablo Pita and Diana Fernández-Márquez	-
	Keywords:	MPA, spearfishing, biological impacts, economic benefits	
B: 26	Title:	Habitat characterization of intertidal populations of the purple sea	
Poster	A1	urchin, <i>Paracentrotus lividus</i> (Lamark, 1816), in north Portugal	15:25
	Authors:	Rula Domínguez, José Manuel Parada Encisa, and Iacopo Bertocci	-
	Keywords:	sea urchin, Paracentrotus lividus, intertidal, rock pools, spatial scale	
B: 27	Title:	Evaluating the efficiency of no-take areas to restore fish stocks – the	
Poster		Swedish experience	15:27
	Authors:	A-B. Florin, L. Bergström, and U. Bergström	-
	Keywords:	MPA, no-take zones, Licknevarpefjärden, Gotska Sandön	
B: 28	Title:	A benign technique for mapping coral distribution in the closed	
Poster		areas of the Rockall Plateau	15:29
	Authors:	Fiona D. McIntyre, Francis Neat, and Paul G. Fernandes	-
	Keywords:	cold-water coral, towed camera, geostatistics	
B: 29	Title:	Using elemental microchemistry, fatty acid profile, and geometric	
Poster		morphometrics to identify goose barnacle origin	15:31
	Authors:	R. Albuquerque, H. Queiroga, C.R. Correia, R. Calado, and S.M.	
		Leandro	-
	Keywords:	goose barnacle, ICP-MS, fatty acid profile, geometric	
		morphometrics, source of origin, discriminant function analysis	

B: 30	Title:	Using variable transects widths to study rocky reefs fishes in poor	
Poster		visibility environments, a suitable technique for monitoring marine	
		protected areas from Galicia	15:33
	Authors:	D. Fernández-Márquez, A. Tubio, R. Muiño, and P. Pita	
	Keywords:	marine protected areas, underwater visual census (UCV), transect	_
		wide, low-visibility environments	
B: 31	Title:	A new method for assessing the underwater seascape for marine	
Poster		tourism management in Marine Protected Areas	15:35
	Authors:	Cristina Piñeiro-Corbeira, Raquel de la Cruz Modino, Mercedes	
		Olmedo, and Rodolfo Barreiro	_
	Keywords:	marine protected areas, underwater seascape, perceptible seascape	
		elements, potential observation index, snorkelling	
B: 32	Title:	Using acoustic telemetry to measure fine-scale movement and	
Poster		interactions of marine animals: implications for Marine Protected	
		Areas	_ 15:37
	Authors:	J.E. Ehrenberg, T.W. Steig, C.H. Greene, and I. Brosnan	_
	Keywords:	acoustic telemetry, fine-scale movement, species interaction	
B: 33	Title:	Digital image-based Area/Weight-Models improve weight	
Poster		estimates of important North Sea fish	15:39
	Authors:	Florian Krau, Sven Hammann, and Joachim Gröger	
	Keywords:	whiting (Merlangius merlangus), Atlantic cod (Gadus morhua), Area-	_
		Weight-Model, digital imaging	
B: 34	Title:	Mismatch between biological, exploitation, and governance scales	
Poster		and ineffective management of sea urchin (Paracentrotus lividus)	
		fisheries in Galicia	15:41
	Authors:	Rosana Ouréns, Inés Naya, and Juan Freire	_
	Keywords:	metapopulation, denso-dependency, management, sea urchin,	_
		spatial structure, rotations, reserve networks	
B: 35	Title:	Inventory and Designation of Marine Natura 2000 Areas in the	
Poster		Spanish Seas, the LIFE+ INDEMARES project	15:43
	Author:	David Peña Uceda	_
	Keywords:	biodiversity, Marine Natura 2000 Network, Sites of Community	_
		Importance (SCIs), Special Protection Areas for Birds (SPAs)	
		Discussion	15:45
		BREAK	16:30
		End of session	18:00