



Conference Monday 15th - Wednesday 17th May 2017, Poole

Marine Protected Areas. Science, Policy & Management

IMPORTANT

Conference Programme: 9th May Update.

While all the conference sessions and themes remain in place, we have had to make adjustments to the programme as a result of some pre-election purdah withdrawals, and consequent domino effects. The new programme is provided below

Pre-election purdah is imposed on government departments and agencies in order to prevent the future government appearing constrained by statements made during the election campaign. Technically this could prevent not only the delivery of some planned presentations but also attendance at the conference by government agency officers. However Defra are aware of our conference and have given certain dispensations which we appreciate. Nevertheless purdah has resulted in some changes to the programme.

Fortunately the effect is limited and we are pleased to confirm that there are no major changes to the sessions in terms of both timings and themes. Nevertheless since there are some new presentations and others have moved we suggest delegates study the latest programme below. If anyone wishes to change their Training Suite booked sessions as a consequence we will do our best to assist.

It is my impression that the purdah guidelines are being strongly enforced for this election, possibly due to the Brexit situation. In this context please be aware that those attending from Defra agencies may be unable to actively participate fully in plenary discussions where this brings them into conflict with Defra's purdah guidelines. For example, we are pleased that Natural England staff will attend the conference and can discuss science and management, but they will absent themselves during a small number of explicitly Brexit-focussed policy presentations and cannot discuss or respond to questions on policy; whether on the efficacy of existing policy or speculation about future policy, particularly post Brexit. Other government agency staff will be under similar constraints.

The Conference Organising Committee is very grateful to presenters who have, through their flexibility, helped us adjust the programme while maintaining the integrity of the theme sessions. We would be grateful for your forbearance should any final small adjustments emerge.

John Humphreys

Conference Chair

Day 1 Monday 15th May

Local meeting

Science, Policy & Management of Poole Harbour.

All those registered for the main conference and with a direct interest in Poole Harbour are welcome

North Lounge

0900	LOCAL MEETING: Registration & Refreshments		
Theme	Poole Harbour	Chair: Alice Hall, Bournemouth University	
0920	<u>Sue Wells</u>	National Trust	The role of the National Trust in supporting the establishment of the UK's national marine protected area network – demonstrating effective management at local level.
0940	<u>Leo Clarke</u> , Roger JH Herbert, Richard A Stillman	Bournemouth University	Benthic impacts of a novel, non-native shellfishery in a marine protected area
1000	<u>Sarah Birchenough</u> , John Humphreys	Southampton University, Portsmouth University	Managing a dredge fishery within a marine protected area; emergent lessons from policy and practice in Poole Harbour
1020	<u>Sue Burton</u>	Natural England	Poole Harbour– the importance of working in partnership to deliver environmental outcomes
1040	Refreshments		
1100	Poole Harbour Workshop	Facilitator: Angela Cott , National Trust	Workshop on collaboration & priorities for Poole Harbour
1200	<u>Close</u>		

Main Programme

Marine Protected Areas: Science, Policy & Management

Day 1 Monday 15th May

North Lounge

Day 1 1200	MAIN CONFERENCE. Registration & Buffet	North Lounge	
1250	Welcome	Jim Stewart. Chief Executive, Poole Harbour Commissioners,	
1255	Introductory remarks	John Humphreys. Steve Mitchell PHSG & ECSA	
Theme	Climate change & non-native species	Chair: Andrew Wither, ECSA	
1310	<u>Keynote: Christine Maggs</u>	Bournemouth University	Climate change, non-indigenous species and marine conservation
1330	<u>Bryony Townhill</u> and Paul Buckley	MCCIP	Supporting management of conservation features in a changing climate
1350	<u>Luciana Esteves</u> and JJ Williams	Bournemouth University	Coastal protection and habitat restoration: implications of <i>building with nature</i> approaches to marine protected areas
1410	<u>Ken Collins</u> and Inti Keith	University of Southampton Charles Darwin Research Station, Galapagos	Countering the threat of invasive species to the Galapagos marine reserve.
1430	<u>John Humphreys</u>	University of Portsmouth	Marine conservation in the context of global change: The ecological, economic, and legal status of a non-native mollusc
1450	Break		
1520	<u>Jonathan Dale</u> and Heidi Burgess	University of Brighton	The evolution of the Solent's youngest estuary: Is estuarine construction the solution to coastal habitat loss?
1540	<u>Steve Mitchell</u>	University of Portsmouth	Fine sediments and rising sea levels: research requirements
1600	<u>Rebecca Creed</u> , Jonathan Potts, Malcolm Bray and Brian Baily	University of Portsmouth	Stakeholder engagement in adaptive management: a case study of East Head, Chichester Harbour, UK
1620	Theme Plenary		
1650	Close		
1700	Reception. Wine & Oysters. Posters & Poole Rocks MCZ Video		

Day 1 Monday 15th May

Training Suite

Afternoon			
Session 1a			
Theme	Recreational & commercial pressures: Impacts & solutions	Chair: Angela Cott, National Trust	
1310	<u>Caroline Roberts</u> , AJ Pearson, NJ Frost, SCH Hull	ABPmer	Evidence and management for marine recreational activities in MPAs
1330	Roger J.H. Herbert, Adrian Newton, Ann Thornton, <u>Stephen Watson</u> , Luciana Esteves, Francis Grandfield, Eleanor Rivers, Alba Bastidas	Bournemouth University	Linking environment and economy: Poole Harbour as a case study
1350	<u>Durwyn Liley</u> , Kathryn Ross, Niall Burton' Graham Austin, Ralph Clarke, Richard Stillman & Chris Panter	Footprint Ecology, British Trust for Ornithology and Bournemouth University.	New housing, recreation and bird disturbance: implications for estuary sites in England
1410	<u>Sian Rees</u> ., M Ashley, L Evans, S Mangi, L Rodwell, M Attrill, O Langmead, E Sheehan, A Rees.	Plymouth University	The social and economic impact of a marine protected area – The Lyme Bay Reserve
1430	<u>Fernanda Balata</u>	New Economics Foundation	The Blue New Deal Action plan for Coastal Communities
1450	Break		Refreshments in North Lounge
Session 1b			
1520	<u>Simon Cripps</u>	Dorset Wildlife Trust	Marine natural capital
1540	<u>Tom Clegg</u> , Jane Heywood, Will Wright	Kent & Essex IFCA	The River Medway Nursery Area: a bottom-up approach
1600	<u>Richardson PB</u> , Campbell LM, Cumming GB, Norwood C, Ranger S, Sanghera A.	Marine Conservation Society	Community Voice Method - a contemporary approach to engaging stakeholders in development of marine resource conservation policy.
1620	Theme plenary		
1650	Close		
1700	Reception. Wine & Oysters. Posters & Poole Rocks MCZ Video (North Lounge)		

Day 2 Tuesday 16th May

North Lounge

0900	Refreshments		
Theme:	MPA Policy	Chair: John Humphreys, Poole Harbour Commissioners	
0930	<u>Keynote: Steve Fletcher</u>	United Nations Environment Programme	Progress towards the conservation and sustainable use of the oceans: how are we doing?
0950	<u>Daniel Owen</u>	Barrister	The impact of Brexit on MPA designations in UK waters
1010	<u>Stephen Hull</u>	ABPmer	Brexit – an environmental opportunity?
1030	Hannah Carr, <u>Alice Cornthwaite</u> & Hugh Wright	JNCC	Assessing progress in 2016 towards an ecological coherent network in Defra Secretary of State waters
1050	Refreshments		
1120	<u>Malcolm D Hudson</u> , Jessica M Savage, Patrick E Osborne	University of Southampton	The design and implementation of marine management strategies in emerging Marine Protected Areas in Cambodia
1140	<u>Keith Hiscock</u>	Marine Biological Association	MPA design and management: science not slogans
1200	<u>Peter Tinsley</u>	Dorset Wildlife Trust	Conservation or recovery - assessing the level of ambition of the UK MPA network
1220	Theme plenary		
1240	Lunch		
Theme	MPAs & Fisheries	Chair: Simon Cripps, Dorset Wildlife Trust	
1330	<u>Keynote: Peter Jones</u>	University College London	Marine Protected Areas - resilience through diversity
1350	<u>Jerry Percy</u>	Low Impact Fishers of Europe	Low impact fishers of Europe: LIFE in MPAs
1410	<u>Michael McLeod</u>	Marine Scotland	Delivering effective fisheries management of marine protected Areas in Scotland's seas
1430	Refreshments		
1500	<u>Annika Clements</u> , Matthew Service, Mathieu Lundy and Lynn Gilmore	Agri-Food and Biosciences Institute and Seafish (Northern Ireland)	The challenge of designating UK Marine Conservation Zones in valuable fishing areas: A case study of the Irish Sea <i>Nephrops norvegicus</i> (L.) grounds
1520	<u>Chris Williams</u>	New Economics Foundation	The future of UK fisheries – from historic rights to performance based allocation of fishing opportunities
1540	S. Breda, <u>S. Chiesa</u> , L. Gobbo & E. Argese	University of Venice.	Clam harvesting methods in the Venice lagoon: changes in metal and metalloids partitioning after seabed disturbance by different fishing gears
1600	<u>Terence P Dawson</u> , Robert A Irving and Heather Koldewey	King's College London.	Developing a fisheries management plan for the Pitcairn Islands – rightsizing governance for small communities
1620	Stephen Pikesley and Matt Witt; Colin Trundle <u>Jean-Luc Solandt</u> and Chris Wood	University of Exeter, Cornwall Inshore Fisheries and	Pink Sea Fans (<i>Eunicella verrucosa</i>) as Indicators of the Spatial Efficacy of Marine Protected Areas in Southwest UK Coastal Waters

		Conservation Authority, Marine Conservation Society and Seasearch.	
1640	Theme Plenary		
1700	Close		
1900	Conference Dinner (Ticket only due to boat maximum capacity)		

Day 2 Tuesday 16th May

Training Suite

Afternoon			
Session 2a			
Theme	Water Quality, Nutrients & Eutrophication	Chair: Andrew Powell Canford School	
1330	<u>Rodney Forster</u>	University of Hull	Monitoring and remediating the adverse impacts of eutrophication in enclosed coastal waters
1350	<u>Laura H. Crossley</u> , Peter Langdon, David Sear, John Dearing	University of Southampton	Assessing the safe operating space for nutrient loads to river estuaries: a palaeoenvironmental approach to estuary management
1410	<u>Daniel J Franklin</u> , MRC Harris, J Humphreys, IJ Chapman, RJH Herbert A Jensen, A, DA Purdie.	Bournemouth University, Portsmouth University, Southampton University	Investigating the sustainability of the Poole Harbour Manila clam fishery; phytoplankton seasonality and its relationship with clam condition index
1430	Refreshments at North Lounge		
Session 2b			
1500	<u>Fiona Bowles</u>	Poole Harbour Catchment Initiative	Engaging to deliver solutions to eutrophication in Poole Harbour SPA and its catchment.
1520	<u>Charlotte Woodford</u>	Natural England	How Catchment Sensitive Farming (CSF) is working with farmers to reduce their impact on a protected area
1600	Theme Plenary		
1630	Close	Conference continues in North Lounge	
1900	Conference Dinner Ticket only due to boat maximum capacity		

Day 3 Wednesday 17th May

North Lounge

0900	Refreshments		
Theme	Science and MPAs	Chair: Roger Herbert Bournemouth University	
0930	<u>Keynote: Svetlana Jevrejeva</u>	NOC, Liverpool	Sea level rise and the impacts on EMSs
0950	<u>Heidi Burgess</u> , Jonathan Dale, Paul Kilkie	University of Brighton	The impact of precipitation on the mobilisation of inter-tidal sediment
1010	<u>Ruth Callaway</u>	Swansea University	Interstitial space drives benthic communities in artificial shell and rock reefs
1030	<u>Michael Elliott</u> , Angel Borja, Suzanne Boyes, Roland Cormier, Victor de Jonge	IECS University of Hull, AZTI, Marine Research Division, Herrera Kaia Portualdea, Spain, Centre for Materials and Coastal Research, Geesthacht, Germany	Marine science and management: reconciling marine environmental quality assessments and maritime spatial planning?
1050	Gareth Johnson, Bruno Caneco, Phil Latto, Iain Warner, Michel Kaiser and Carl Donovan. <u>Frances Burrows</u>	MarineSpace	Towards an understanding of the physical effects of natural disturbance and demersal fishing on UK mobile sediment MPAs
1110	Refreshments		
1140	Keynote: Richard Stillman & <u>John Goss-Custard</u>	Bournemouth University	Critical thresholds of disturbance for shorebirds
1200	<u>Anthony Moreira</u> , Etelvina Figueira, Amadeu M.V.M. Soares, and Rosa Freitas	University of Aveiro, Portugal	Biochemical responses of the Portuguese oyster to arsenic under different climate change scenarios
1220	<u>Emma Sheehan</u> , Adam Rees, Danielle Bridger, Luke Holmes, Martin Attrill	Plymouth University	The Lyme Bay MPA Case Study: benthic recovery, storm impacts and lessons learnt.
1240	<u>R. Freitas</u> , J.L. Costa, F. Ruano, M.M. Angélico, P. Chainho, S. Chiesa, H. Lourenço, A. Grade, F. Marques, T. Portela, C. Silva, A. Moreira, P. Oliveira, N. Bandarra, H. Cabral, C. Falcão & M.J. Fernandes	University of Aveiro, Portugal, University of Lisbon & MARE-FCUL, Portugal Portuguese Institute for Sea and Atmosphere and Institute for Nature Conservation and Forests, Portugal	<i>Crassostrea angulata</i> in the Sado estuary: actual situation and future perspectives
1300	Victor N de Jonge	ICES, University of Hull.	Assessing “ecological status” by linking ecological network “structure” and network “functioning” in accordance with the spirit of EU Directives

1320	Theme plenary		
1340	Closing remarks	Conference chair: John Humphreys, PHSG	
1350	Lunch (Grab bags) NB. Brownsea fieldtrip departs at 1400		
1430	Conference Closes		
1400	Conference Fieldtrip to Brownsea Island		

Day 3 Wednesday 17th May

Training Suite

Morning			
0900	Refreshments at North Lounge		
Session 3a			
Theme	MPAs & Fisheries II	Chair: Rob Clarke, Southern IFCA	
0930	<u>Adam Rees</u>	Plymouth University	The Lyme Bay Experimental Potting Project
0950	<u>Matt Doggett</u> , M Openshaw and S Openshaw.	Seven Tenths Ecology Ltd.	Behavioural field observations of black bream (<i>Spondyliosoma cantharus</i>) at breeding sites along the Dorset coast: implications for management
1010	<u>Adrian C Pinder</u> , RJ Velterop, SJ. Cooke and RJ. Britton	Bournemouth University	Consequences of catch-and-release angling for black bream <i>Spondyliosoma cantharus</i> , during the parental care period: implications for management
1030	<u>Anita Franco</u> , Chris Sweeting, Aisling Lannin, Mike Elliott	Institute of Estuarine and Coastal Studies, Marine Management Organisation,	Essential Fish Habitats mapping: using scientific evidence to support marine spatial planning
1050	Theme plenary		
1110	Refreshments		in North Lounge
Session 3b			
Theme	Stakeholder Consultation & Partnership		
1140	<u>Alice Doyle</u>	JNCC	Fishing with Boundaries - An introduction to management of fisheries in offshore MPAs.
1200	<u>Jenny Oates</u> , Penny Wilson.	WWF	SEAS project- engaging stakeholders in developing effective MPA management
1220	<u>Rick Stafford</u>	Bournemouth University	Lack of evidence for ecological benefits of community involvement and governance of MPAs

1240	Gordon J. Watson, JM. Murray, M. Schaefer, A. Bonner, M. Gillingham	University of Portsmouth	Does local marine conservation work? A case study of bait collection in the UK
1300	Theme plenary		
1330	Closing remarks in North Lounge		
1340	Lunch (Grab-bag) NB Brownsea fieldtrip departs 1400		
1430	Conference Closes		

Day 3 Board Room

1400	Estuarine & Coastal Science Association	Annual General Meeting
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Poster Displays: North Lounge.

Posters will be displayed throughout the conference period

A prize will be awarded for the best poster by a student and will be announced during the 1700 Reception on Day 1, which will also include a new video on Poole Rocks MCZ

	Authors	Affiliations	Poster Title
P1	Lin Baldock, Charlotte Bolton, Sue Burton	Marine Conservation Society and Natural England	Sublittoral survey of peacock worm beds in Poole Harbour: The role of citizen science
P2	Jessica Bone, Rob Hughes, Jade Robuffo, Roger JH Herbert.	Bournemouth University	A new lagoon on Brownsea Island, Poole Harbour.
P3	Natalie Bown, Joanne Ziemann, Edward Mayhew, Lisa Jenner	Natural England	Natural England's marine conservation advice: Evidence at your fingertips
P4	Richard Caldow, A Banks, M Kershaw, T Frayling, H Rowell	Natural England.	Windfarms and shy seabirds in MPAs: finding a balance between conservation and socio-economic interests.
P5	Ruth Callaway	Swansea University	Interstitial space drives benthic communities in artificial shell and rock reefs
P6	Catherine Collop	Bournemouth University & Natural England	An individual-based model of Poole Harbour – is disturbance from human activities limiting numbers of wintering waders?
P7	Kathryn Dawson, Jan MacLennan	Natural England	Assessing and communicating condition of marine protected features for effective MPA management
P8	<u>Mike Elliott</u> ¹ , Daryl Burdon ¹ , Sue Boyes ¹ , Anita Franco ¹ , James Strong ¹ , Krysia Mazik ¹ , Teresa Fernandes ² , John Hartley ³ , Becky Hitchin ⁴ , Matt Smith ⁴ , Maria Alvarez ⁵ , Alex Fawcett ⁵ , Larissa Leitch ⁶ , Sarah Dacre ⁷	¹ Institute of Estuarine & Coastal Studies (IECS) ² Heriot Watt University, ³ Hartley Anderson Ltd., ⁴ JNCC ⁵ Natural England, ⁶ Shell UK, ⁷ Department for Business, Energy and Industrial Strategy (BEIS),	An evidence-based approach for the effects of decommissioning options on Marine Protected Area conservation and ecosystem services (DECOM-MPA)
P9	Victoria Gravestock, Rosie Nicoll Robert Clark, John	SIFCA	Assessing the filtration potential of shellfish

	Humphreys, Hannah Cockerton,		aquaculture species in Poole Harbour
P10	Alice Hall, Roger JH Herbert, Robert Britton, Ben Thomas, Susan L Hull	Bournemouth University	Can ecological enhancement be used to improve artificial structures within marine protected areas?
P11	Roger J.H. Herbert, Adrian Newton, Ann Thornton, Stephen Watson, Luciana Esteves, Francis Grandfield, Eleanor Rivers, Alba Bastidas	Bournemouth University	Linking environment and economy: Poole Harbour as a case study
P12	Heike Markus-Michalczyk	NIOZ - Royal Netherlands Institute for Sea Research	"Make me a willow cabin at your gate..." – <i>Salix</i> adaptive capacities to restore temperate tidal forests at protected sites and harbour entrances
P13	Jamie Oaten, Malcolm Hudson, Antony Jensen, Ian Williams	University of Southampton	Is metallothionein a reliable biomarker of metal pollution within biomonitoring programmes?
P14	Josie Pegg, George Hide, Adrian Love	University Centre Sparsholt	Invasive non-native species management – lessons from UK freshwaters
P15	Andrew Powell	Canford School/ PHSG	Seasonal variation in the Zooplankton of Poole Harbour 2013 - 2016
P16	Robert D Sluka, Peter Musembi, and Benjamin Cowburn	A Rocha International	Why have coral reefs in Watamu Marine National Park, Kenya not recovered after the 1998 bleaching event?
P17	Ann Thornton, Roger JH Herbert, Richard A Stillman, Daniel J Franklin.	Bournemouth University.	The impact of green macroalgal mats on overwintering wading birds: a top predator within an estuarine SPA ecosystem.
P18	Reginald J Uncles, JA Stephens, C Harris	Plymouth Marine Laboratory	Seasonal variability of salinity, temperature, turbidity, dissolved oxygen and suspended chlorophyll in the Lynher Estuary – a component of the Tamar Estuary SAC and MCZs
P19	Reginald J Uncles	Plymouth Marine Laboratory	Physical Processes in the western Whitsand Bay MCZ – neighbour to a dredge-spoil disposal site
P20	Gordon J Watson, K. Bohn., S White	Institute of Marine Sciences, University of Portsmouth	Using citizen science to inform policy and management of coastal ecosystems
P21	Shannon White, Gordon Watson, Roger JH Herbert	University of Portsmouth	Examining drivers of change in intertidal mudflat communities within Solent Marine Protected Areas
P22	Alexander Willcocks, Leo Clarke, Roger Herbert, Rob Clark	Bournemouth University SIFCA	Managing bivalve fisheries in English marine protected areas
P23	Richard Acornley & Suzy Witt	Environment Agency	Environment Agency Monitoring under the Water Framework Directive. What does it tell us about Poole Harbour?