



**Marine Ecosystems  
Research Programme**

## Annual Science Meeting 2017 Agenda

10-12<sup>th</sup> October, 2017, Rutland Hotel, Sheffield

### Day 1: Tuesday 10<sup>th</sup> October

9:00	Welcome and Introduction to MERP Welcome to new MERP members	Paul Somerfield (PML)
9:40	WP3: Trade Offs Project	Mike Heath (Strathclyde)
9:55	WP3: Cumulative Impacts Project	Tom Webb (Sheffield)

#### Session 1: Incorporating MERP's new information to develop models of marine ecosystems

*Chair: Tom Webb*

10:00	Multi-model ensembles for ecosystem prediction	Paul Blackwell (Sheffield)
10:10	Ecological indicators: a comparison between West coast of Scotland and Celtic Sea Ecopath models	Sheila Heymans (SAMS)
10:20	Fitting the StrathE2E ecosystem model using Bayesian methods	Aidan Hunter (Strathclyde)
10:30	Modelling how top-down effects in pelagic communities become stronger as nutrient levels increase	Axel Rossberg (QMUL)

#### 10:40 Discussion Session

#### 11:00 Coffee

		<i>Chair: Icarus Allen</i>
11:30	Temporal dynamics and functioning of benthic macrofauna: Integrating observations with models	Gennadi Lessin (PML)
11:40	The effects of model resolution on the ecosystem of the Celtic Sea	Sarah Wakelin (NOC)
11:50	Spatial/temporal coupling of Ecopath/ERSEM: the West coast of Scotland example	Natalia Serpetti (SAMS)
12:00	A Celtic Sea version of mizer	Mike Spence (Sheffield)
12:10	Fish modelling: coupling ERSEM with MIZER	Jorn Bruggeman (PML)

#### 12:20 Discussion session

#### 12:45 Lunch

#### Session 2: Using new information and models to understand changes in services

		<i>Chair: Mark Emmerson</i>
13:50	Determination of the impact of fishing on the richness of large marine species	Axel Rossberg (QMUL)
14:00	Modelling the ecosystem consequences of denying access to areas of seabed for trawling	Mike Heath (Strathclyde)
14:10	A new tool to examine natural capital and ecosystem service trade-offs under different stresses and management measures	Tara Hooper (PML)
14:20	Visually communicating model outputs and their uncertainties	Hayley Banister (Sheffield)
14:30	Discussion session	
14:50	Mapping predation pressure from breeding seabirds in UK waters	Kate Searle (CEH)
15:00	Delivering renewable energy targets while minimising impacts on top predators	Francis Daunt (CEH)
15:10	Integration of economics to ecological models to enhance marine ecosystem services in the West of Scotland and Celtic Sea	Simone Martino (SAMS)
15:20	Using top predator studies to address policy related questions	Peter Evans (SeaWatch)

#### 15:35 Discussion session

#### 15:50 Coffee

		<i>Chair: Mel Austen</i>
16:20	Using bowtie analysis to undertake indicator based cumulative	Adrian Judd (Cefas)














	effects assessments	
16:30	Cultural values, places, practices, identities, experiences and capabilities relating to marine ecosystem services	Gill Ainsworth (CEH)
16:50	Using simulations of functional group responses to projected warming and changes in fishing pressure to inform selection of indicators for “Good Environmental Status	Robert Thorpe (Cefas)
17:00	Modelling top predator distributions from an understanding of key environmental drivers	James Waggitt (Bangor)
<b>17:10</b>	<b>Discussion session</b>	

## Day 2: Wednesday 11<sup>th</sup> October

### Session 4: New information about marine ecosystems to develop models

		<i>Chair: Sheila Heymans</i>
9:00	Linking occurrence, traits, and environment to map the diversity of UK marine life	Tom Webb (Sheffield)
9:10	The Trait Explorer	Jorn Bruggeman (PML)
9:20	Combining pelagic and benthic size spectra from meiofauna to whales	Jan Hiddink (Bangor)
<b>9:30</b>	<b>Discussion Session</b>	
9:45	TBC	Mark Emmerson (QMUL)
9:55	Making the most of survey data: Incorporating age uncertainty when fitting growth parameters	Mike Spence (Sheffield)
10:05	Cetaceans and seabirds use different environmental determinants for persistent hotspots of biodiversity and biomass	James Waggitt (Bangor)
<b>10:15</b>	<b>Discussion Session</b>	
<b>10:30</b>	<b>Coffee</b>	

### Session 3: Realising MERP’s Potential

11:00	Products and Stakeholder Engagement	Kelly-Marie Davidson and Kelvin Boot
11:20	MERP Out and About <i>Flash presentations about MERP scientists’ engagement with the wider community (2 mins, 2 slides per person) Please confirm before this session if you would like to give a presentation.</i>	
	<ul style="list-style-type: none"> <li> European Marine Board</li> <li> ICES/MSFD</li> <li> COP22</li> <li> STG14 UN OCEANS</li> <li> Filamo workshop</li> <li> Online engagement</li> <li> International Group for Marine Ecological Time Series</li> <li> Defra Briefings</li> <li> EMODnet link</li> <li> UNEP &amp; the European Parliament</li> <li> AMEMR</li> <li> PDRAs – life after MERP (Martin, Leigh and Mike)</li> <li> <b>Plus anymore?</b></li> </ul>	
12:00	Data: Management, Access and Discoverability	James Ayliffe (BODC)
12:15	Pathways to OSPAR and MSFD assessments via CefMAT	Eva Garnacho (Cefas)
<b>12:35</b>	<b>Discussion Session</b>	
<b>13:00</b>	<b>Lunch</b>	

## Session 4 continued: New information about marine ecosystems to develop models

		<i>Chair: Michaela Schratzberger</i>
14:00	The dynamics of interactions between gelatinous zooplankton and fish larvae: Using Next Generation Sequencing to provide insights	Martin Lilley (QMUL) and Pennie Lindeque
14:10	Zooplankton grazing dynamics	Angus Atkinson (PML) (PML)
14:20	L4 plankton biomass spectrum & metabolic traits of benthic and pelagic organisms in relation to their mass	Martin Lilley (previously QMUL)
14:30	Modelling zooplankton diversity: including jellyness and size. Results and perspective	Sevrine Saille (PML)
<b>14:40</b>	<b>Discussion session</b>	
<b>15:00</b>	<b>Coffee</b>	
		<i>Chair: Stephen Widdicombe</i>
15:30	The effects of bottom trawling and primary production on the macroecology of benthic ecosystems	Leigh Howarth (previously of Bangor)
15:40	Seabird diets	Ruedi Nager (Glasgow)
15:50	Connectivity between seaweed carbon and coastal sediment stores – trophic and non-trophic pathways	Ana Queirós (PML)
<b>16:00</b>	<b>Discussion</b>	
16:20	Introducing new maps of the sedimentary environment of the northwest European Shelf	Robert Wilson (Strathclyde)
16:30	The impact of regional and climate related stressors on the uptake of seaweed carbon by coastal sediments	Chiara Ravaglioli (PML)
16:50	Kelp	Mike Burrows
<b>17:00</b>	<b>Discussion</b>	
<b>17:30</b>	<b>Close of science meeting</b>	<b>Paul Somerfield</b>

## Day 3: Thursday 12th October

9:30 – 12:30 Workshop session

Detailed plans for the final 6 months, new tasks/deliverables with timetable, publications, deposit data, special issue(s), additional workshops and meetings, final report.

- Deliverables: status and time to completion
- Delivery of final tasks: When and how
- Depositing data – list of all datasets generated by MERP and status
- Publications/ Special Issue: - plans for special issue(s)? Editors? / Open access publications
- Funding for additional workshops to complete tasks, write papers etc
- Stakeholder event – April 2018
- Final science meeting
- Final report
- Timetable of when partners finish

### Additional sessions:

ERSEM and MERP – led by Jorn Bruggeman

This session is vital to enabling successful completion of the Programme.

**9:00** Side meeting for the PAG