

PML Ocean Sciences Meeting programme

23 February sessions

Time	Location		Title	PML associated expert	Link
08:50 - 09:00	Hall 3, Coral Cove (SEC)		Fine Scale Modelling and a Decision Support Tool to support Measurement, Reporting and Verification	Jerry Blackford and Marius Dewar	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2038736
09:20 - 09:30	M1 (SEC)	ME11B-06	Observed changes in phytoplankton species diversity, geographical distribution and abundance associated with Harmful Algal Bloom Events in the North Atlantic Region for the last 25 years	Peter Miller	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2028993
10:39 - 10:42	Hall 4, eLightning Theater 2 (SEC)	CM12B-04	Lessons learnt from the development and implementation of a comprehensive framework for Monitoring, Reporting, and Verification of a Marine Carbon Dioxide removal pilot plant in the UK.	Tom Bell, Juliane Wihsgott, Molly James, Jani Pewter and Yaru Li	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2043668
10:48 - 10:51	Hall 4, eLightning Theater 2 (SEC)	CM12B-07	Perspectives and insights from the SeaCURE pilot plant on Direct Ocean Carbon Capture at scale	Tom Bell, Helen Findlay and Guy Hooper	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/1873804
11:45 - 11:55	Alsh (SEC)	DO12A-08	Improving Predictions of Coastal Marine Ecosystem Forecasts Through a Digital Twin Ocean Approach	Juliane Wihsgott, Thomas Mansfield, Susan Kay, Jozef Skakala, Dale Partridge, Gavin Tilstone, Tom Jordan, Peter Land and Matthew Palmer	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2019184
16:00 - 18:00	Hall 4 (Poster Hall) (SEC)		Various; please see the Poster session overview further down for details	Various PML staff; please see the Poster Session overview further down for details	

24 February sessions

Time	Location		Title	PML associated expert	Link
08:30 - 10:00	Forth (SEC)	HE21B	SESSION: The Southern Ocean Carbon Sink: Processes, Observations, and Change	Tom Bell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Session/273289
08:39 - 08:42	Hall 4, eLightning Theater 1 (SEC)	ME21B-04	Autonomous observations of enhanced chlorophyll concentrations during a marine heatwave in a seasonally stratified shelf sea	Juliane Wihsgott, Matthew Palmer	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2008347
08:40 - 08:50	Forth (SEC)	HE21B-02	Size Spectra of Weddell Sea Ecosystems Reflect Regional Differences in Productivity, Nutrient Cycling, Trophic Interactions and Carbon Export	Elaine Fileman, Angus Atkinson, Tom Bell, Sarah Breimann and Ian Brown	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2042646
09:00 - 09:10	Forth (SEC)	HE21B-04	Microbial secrets of the Weddell Sea: Respiration and prokaryote growth efficiencies	Ian Brown 2, Sarah Breimann and Andy Rees	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2037940
09:50 - 10:00	Hall 3, The Abyss (SEC)	CM21A-09	The impacts of Direct Ocean Carbon Capture and Storage (DOCCS) discharge on marine organisms	Guy Hooper, Helen Findlay, Tom Bell, Rachel Coppock	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2030667
14:00 - 15:30	Hall 3, Coral Cove (SEC)	OB43D	SESSION: Quantifying Marine Biological Production Across Scales and Platforms	Shubha Sathyendranath	https://agu.confex.com/agu/osm26/meetingapp.cgi/Session/273636
16:00 - 18:00	Hall 4 (Poster Hall) (SEC)		Various; please see the Poster session overview further down for details	Various PML staff; please see the Poster Session overview further down for details	

25 February sessions

Time	Location		Title	PML associated expert	Link
08:40 - 08:50	Hall 3, The Abyss (SEC)	CM31A-02	Perspectives on marine carbon dioxide removal from the Global Ocean Acidification Observing Network	Helen Findlay, Yuri Artioli, Jerry Blackford and Yaru Li	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2033853
08:50 - 09:00	Hall 3, The Abyss (SEC)	CM31A-03	Developing a Community-Driven Environmental Impact Monitoring Framework for Ocean Alkalinity Enhancement (OAE) Field Research	Sam Fawcett, Tamsin Dobson and Helen Findlay	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2030308
12:45 - 13:45	Town Hall, Forth (SEC)	TH33A	SESSION: An Environmental Impact Assessment Framework for Marine Carbon Dioxide Removal	Sam Fawcett	https://agu.confex.com/agu/osm26/meetingapp.cgi/Session/257807
12:45 - 13:45	Boisdale (SEC)	TH33F	SESSION: Deep-Ocean Science as the Foundation for a Thriving Global Ocean	Kerry Howell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Session/255463
14:11 - 14:21	Alsh (SEC)	CC33A-02	Environmental and Climatic Drivers of Glycymeris glycymeris Shell Growth Variability in the English Channel	Tim Smyth	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2033346
16:00 - 18:00	Hall 4 (Poster Hall) (SEC)		Various; please see the Poster session overview further down for details	Various PML staff; please see the Poster Session overview further down for details	

26 February sessions

Time	Location		Title	PML associated expert	Link
08:30 - 08:40	Lomond Auditorium (SEC)	CB41A-01	Coastal nutrients and biological productivity reflect the balance between land management and climate change impacts	Andy Rees, Elizabeth Atwood, Jasmin Dorinda and Keila Guillen-Onate	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2038564
09:00 - 09:10	Dochart (SEC)	HC41A-04	Physics-to-Ecosystem Level Assessment of Impacts of Offshore Wind Farms in Stratified Waters: The Overview of Outcomes from the PELAgIO Project.	Matthew Palmer, Tim Smyth, Stephen Watson and Juliane Wihsgott	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2039284
09:05 - 09:15	Boisdale (SEC)	F41A-04	Ecological, social and economic conflicts between the offshore wind energy and commercial fishing industries: Perspectives on challenges and solutions from the UK and globally.	Stephen Watson	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2026268
09:35 - 09:45	Carron (SEC)	OT41B-07	eDNA Complements Traditional Methods to Identify Winners and Losers Under Climatic Warming in the Western English Channel	Karen Tait, Penelope Lindeque and Angus Atkinson	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2006594
10:30 - 10:45	M1 (SEC)	OT42A-01	FAIR marine ecology time series data for the global research community - Outcomes of the Marine Ecological Time Series Research Coordination Network (METS-RCN)	Thomas Mansfield	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2018937
14:00 - 14:10	Hall 3, Current Exchange (SEC)	ME43A-01	AI Model Transferability in Marine Benthic Imagery: From Training Site to New Ecosystems	David Moffat and Kerry Howell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2039093
14:02 - 14:12	Hall 3, Coral Cove (SEC)	OB43D-01	A satellite-based estimates of biological pools and fluxes of carbon in the oceanic mixed layer	Shubha Sathyendranath and Gemma Kulk	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2027657
16:00 - 18:00	Hall 4 (Poster Hall) (SEC)		Various; please see the Poster session overview further down for details	Various PML staff; please see the Poster Session overview further down for details	

27 February sessions

Time	Location		Title	PML associated expert	Link
08:40 - 08:50	Lomond Auditorium (SEC)	AI51A-01	Novel Observations of OVOC Production from the Ozonolysis of Seawater during the CARES campaign.	Ming-Xi Yang and Tom Bell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2024104
09:10 - 09:20	Hall 3, Kelp Forest (SEC)	CB51A-05	Dissolved Organic Matter dynamics along the European coasts, new insights from the TRaversing European Coastlines (TREC) expedition	Tom Jordan and Victor Martinez-Vicente	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2006275
09:20 - 09:30	Hall 1 (SEC)	OB51A-05	Towards Next-Generation Biogeochemical Forecasting: A Hybrid Machine Learning-ERSEM Model	Deep Banerjee, Jerry Blackford, Gemma Kulk, Shubha Sathyendranath, Jorn Bruggeman (PML fellow) and Elin Meek	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2027679
09:50 - 10:00	Hall 1 (SEC)	OB51A-08	Advancing Modelling of Marine Pollution and Stressors to Predict and Mitigate Ocean Threats in European and Global Seas	Lee de Mora	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2005505
11:30 - 11:40	Hall 1 (SEC)	OB52A-07	Challenging one-way coupled biogeochemical to fisheries modelling: new insights from a two-way coupled model representing photons to fisheries on the North-West European Shelf.	Helen Powley, Rebecca Millington, Yuri Artioli and Robert Wilson	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2018789
14:09 - 14:12	Hall 4, eLightning Theater 1 (SEC)	OB53C-04	Seawater Turbidity Across the Northwest European Shelf (NWES): Drivers, Trends, and Ecosystem Responses	Jerry Blackford	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2020295
14:24 - 14:27	Hall 4, eLightning Theater 2 (SEC)	ME53B-09	Breaking Barriers in Automated Image Analysis: A Case Study of Deep-Sea Biotopes.	Kerry Howell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2034047
14:00 - 15:30	Carron (SEC)	OT53A	SESSION: Plankton and Particle Imaging: Moving Beyond Classification Toward Ecosystem Understanding	Elaine Fileman	https://agu.confex.com/agu/osm26/meetingapp.cgi/Session/274693

POSTER SESSIONS

23 February 16:00 - 18:00, Hall 4 (Poster Hall) (SEC)

Poster Title	PML associated expert	Link
Assessing the impacts of climate change on seasonal phytoplankton variability on the Northwest European shelf	Yuri Artioli	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2034753
Assessing Economic Benefits of International Cooperation over Marine Plastic Pollution	James Clark	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2020206
Advancing Marine Biodiversity Monitoring: In-situ Imaging Across the Size Spectrum and Decentralised Learning for Automated Classification	Claire Widdicombe, James Clark, Daniel Clewley, Elaine Fileman, James Fishwick, Kerry Howell, Thomas Mansfield, David Moffat, Jane Netting and Saskia Ruhl	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2025239
Modelling Atmospheric Carbon Drawdown Due to a Direct Ocean Carbon Capture Pilot Plant in UK Coastal Waters	Yaru Li1, Juliane Wihsgott and Tom Bell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2021365

24 February 16:00 - 18:00, Hall 4 (Poster Hall) (SEC)

Poster or Poster Session Title	PML associated expert	Link
SESSION: The Southern Ocean Carbon Sink: Processes, Observations, and Change	Tom Bell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Session/259380
SESSION: Marine Carbon Dioxide Removal (mCDR) Interactions with Fish, Fisheries, and Aquaculture I	Helen Findlay	https://agu.confex.com/agu/osm26/meetingapp.cgi/Session/256124
Towards an International Seamount Science Program	Kerry Howell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2041597
The value of marine carbon dioxide removal (mCDR) engagement with fisheries, aquaculture and Indigenous communities	Helen Findlay	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2038192

Ocean Acidification and the United Kingdom: monitoring	Lily Anna Stokes and Helen Findlay	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2019666
Transports of Water Masses and Biogeochemical Properties at the Continental Slope of the Western Weddell Sea	Angus Atkinson, Tom Bell, Sarah Breimann, Ian Brown, Elaine Fileman and Andy Rees	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2019626
Biological sources of ozone reactive organic matter in the sea-surface microlayer	Tom Bell, Ming-Xi Yang and Claire Widdicombe	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2014139
Controls on carbon dioxide air-sea exchange and seawater fugacity in partially ice-covered waters of the Weddell Sea, Antarctica	Tom Bell, Ian Brown, Jani Pewter, Ming-Xi Yang and Irene Monreal-Campos	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2036748
Stationary phase metabolites of cosmopolitan phytoplankton promote pathogenic Vibrio attachment – a zoom into chemically mediated host-microbe interactions	Ann Mary V B and Shubha Sathyendranath	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2017058
Integrating Satellite-Observed Surface Carbon into Ocean Biogeochemical Model to Improve Ocean Carbon Cycle	Gemma Kulk and Lekshmi Krishnakumary	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2027456
Biological sources of ozone reactive organic matter in the sea-surface microlayer	Tom Bell, Ming-Xi Yang and Claire E Widdicombe	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2014139
Relating air-water CO2 gas transfer efficiency to proxies of biological activity	Ming Xi Yang and Tom Bell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2013577
Response of Phytoplankton Communities to Climate Change Detected From Space in The Benguela Upwelling Region.	Tom Bell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2035288
Evaluation of hyperspectral backscattering retrievals from the PACE-OCI sensor using field measurements from coastal to open ocean waters	Gavin Tilstone and Tom Jordan	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2037011

25 February 16:00 - 18:00, Hall 4 (Poster Hall) (SEC)

Poster Title

PML associated expert

Link

Modelling the role of macrobenthic community structure in carbon processing in sediments and benthic-pelagic exchange	Gennadi Lessin and Rebecca Millington	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/1909969
The Hyperspectral Bio-Optical Observations Sailing on Tara (HyperBOOST) dataset: relevance for the development and validation of coastal and oceanic satellite products in European waters.	Victor Martinez-Vicente and Tom Jordan	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2043627
Novel High-Frequency Seawater Measurements of DMSP, DMS and Methanethiol During the NE Atlantic Spring Bloom	Frances Hopkins, Loren Temple, Irene Monreal-Campos, Ming-Xi Yang and Tom Bell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2035146
Air-sea concentration and flux observations of Volatile Organic Compounds (VOCs) in the Northeast Atlantic	Irene Monreal-Campos, Tom Bell, Loren Temple, Frances Hopkins, David Moffat and Ming-Xi Yang	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/1877876
Novel High-Frequency Seawater Measurements of DMSP, DMS and Methanethiol During the NE Atlantic Spring Bloom	Frances Hopkins, Loren Temple, Irene Monreal-Campos, Ming-Xi Yang and Tom Bell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2035146
Novel Observations of Dimethyl Sulfide and Methanethiol Emissions During the NE Atlantic Spring Bloom	Loren Temple, Ming-Xi Yang, Frances E Hopkins, Irene Monreal-Campos and Tom Bell	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2035529
A new bias-corrected regional projection for the North Western European shelf to assess future threats to cold water corals and build plans for climate-smart ecological restoration.	Dr. Yuri Artioli, Michael Wathen and Molly James	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2011289
Downscaling climate projections of shelf – open ocean exchange in the Atlantic Ocean	Yuri Artioli	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2015034
Physical processes mediating the impacts of climate change on the biogeochemistry of the global coastal ocean	Yuri Artioli	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2015779
Improving imaging-based particulate organic carbon measurements by taking visually-identifiable characteristics into account	Saskia Ruhl	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2006566
Indicators of Changing Lightscapes in Underwater Marine Ecosystems (ISOLUME)	Tim Smyth	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2027155

A Framework for Quantifiable Evidence and Impact of Ecosystem Change from Offshore Wind Farms

Matthew Palmer

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2027042>

Assessing the Importance of Asymmetries and Biases in the Air-Sea Flux of Carbon Dioxide

Ming Xi Yang and Tom Bell

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2035191>

Sargassum and the Surface Microlayer: Episodic Controls on Air-Sea Gas Transfer

Ming Xi Yang and Tom Bell

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2027769>

Quantifying the carbon flux due to diel vertical migration on the Northwest European shelf

Rebecca Millington, Angus Atkinson, Jerry Blackford, James Clark, Gennadi Lessin, Helen Powley and Robert Wilson

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2019646>

26 February 16:00 - 18:00, Hall 4 (Poster Hall) (SEC)

Poster or Poster Session Title

PML associated expert

Link

SESSION: Quantifying Marine Biological Production Across Scales and Platforms

Shubha Sathyendranath

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Session/259829>

Trends in satellite-based observations of the ocean carbon cycle

Gemma Kulk, Shubha Sathyendranath, Andrei Chuprin, Lekshmi Krishnakumary, Elin Meek and David Moffat

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2007265>

An ecosystem-level dynamic approach for a more strategic and integrated evaluation of trade-offs for future sustainable management of our shallow seas

Stephen Watson

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2038373>

Carbon from Earth Observation between Ocean and Land (COOL)

Victor Martinez-Vicente, Gemma Kulk, Angus Laurenson, Andrey Kurekin, Daniel Clewley, Elin Meek2, Jon White and Steve Groom

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2008476>

A Unified data-driven approach to quantify Biological Production and Export in the Global Surface Ocean

Shubha Sathyendranath

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2037400>

Quantifying Uncertainty in Photosynthesis-Irradiance Parameters for Marine Primary Production

Shubha Sathyendranath

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2025319>

The temperature dependence of phytoplankton photosynthesis across oceanic domains	Gemma Kulk and Shubha Sathyendranath	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2037141
A Bayesian Framework for Assessing Fine-scale Seabird Habitat Use for a Holistic Ecosystem-based Cumulative Effect Assessment	Peter Miller	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2038841
Community guidance for new users in building regional ocean NEMO configurations	Dale Partridge	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2044160
Impact of Wave-induced Mixing on Storm-driven Biogeochemical Fluxes in the Northwest European Shelf	Dale Partridge	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2019182
How Warm is Too Warm? Collapse and Recovery of the North Atlantic Sub-Polar Gyre and Phytoplankton Bloom Over a Range of Net-Zero Futures	Lee de Mora	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2027129
Improving Particulate Organic Carbon and Nitrogen (POCN) Resolution Using Beam Attenuation: Exploring C:N Ratios and Biological Controls at the Bermuda Atlantic Time Series Study (BATS) Site in the Western North Atlantic Ocean	Lucinda Derbyshire	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2028678
Coupling Biological and Microbial Carbon Pumps in the North Atlantic Subtropical Gyre	Gemma Kulk	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2010923
The temperature dependence of phytoplankton photosynthesis across oceanic domains	Gemma Kulk and Shubha Sathyendranath	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2037141
The development of Single-Turnover Active Fluorometry (STAF) for autonomous assessment of phytoplankton photosynthetic activity and primary production at high spatial and temporal resolution	Tom Jordan and Gavin Tilstone	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/1889386
Decline in satellite-derived primary production in the eastern North Atlantic driven by changes in sea surface temperature and mixed layer depth.	Gavin H Tilstone and Peter Land	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2041406
A generic modeling framework for diel vertical migration of mesozooplankton and its role in marine biogeochemical cycles	Rebecca Millington	https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2019260

Advancing Capacity Development in the Ocean Biomolecular Observing Network (OBON)

Luz Rodriguez-Vargas

<https://agu.confex.com/agu/osm26/meetingapp.cgi/Paper/2048829>