

Measurement Systems for 21st Century Oceanography

Development priorities for biogeochemical and biological measurements for Future Marine Research Infrastructure

Date/Time: 13:30-16:00 Weds 18th October, 2023

Venue: Zoom

Venue Details: <https://ukri.zoom.us/j/99287701333>

Please note that this event will be recorded for note taking purposes.

Hosts: Prof Matt Mowlem (National Oceanography Centre), Dr Rohan Allen (Defra)

This event will use Slido (www.slido.com) to gather feedback.

Slido Participant Code: #TBC

Introduction

The [Net-Zero Oceanographic Capability Scoping Study \(2021\)](#) commissioned by NERC undertook a detailed review of the sensor systems and networks that will be needed to meet anticipated science priorities. This included a consultative workshop with the marine community. The [Future Marine Research Infrastructure \(FMRI\) Programme](#) is continuing this engagement to shape NERC's strategic investment in measurement technologies that enable new and different science.

Structure

On 11th-12th October, Defra and the National Oceanography Centre hosted a workshop designed to challenge established thinking and stimulate fresh ideas. This workshop posed a series of four questions:

1. What are the key gaps in biological measurements and what might be available in 5 or 10 years?
2. What are the key gaps in BGC measurements and what might be available in 5 or 10 years?
3. What are the options for advancing the identified measurement priorities?
4. What are the implications for autonomous platform design, use and data management?

This virtual event will present the initial findings for each question. There will then be the opportunity to provide written comments via [Slido](#) and to ask questions. Please note that Slido comments will be visible to all participants and retained as evidence.

After the event, there will also be the option to submit additional, anonymised opinions via Microsoft Forms. This form will close at 18:00 on 27/10/2023.

Link: <https://forms.office.com/e/EF7WmRdmV8>

Outputs

The outcomes of this consultation will be compiled in a report that will be published on the FMRI website: <http://www.fmri.ac.uk/resources>

Start	Finish	Description	Lead
Scene Setting			
13:30	13:35	Welcome & Introduction to FMRI	Kristian Thaller
13:35	13:45	NZOC Scoping Study Outcomes	Matt Mowlem
Workshop Outcomes			
13:45	13:50	What are the key gaps in biological measurements and what might be available in 5 or 10 years? Initial Findings	Rohan Allen
13:50	14:10	Slido Feedback / Q&A	Plenary
14:10	14:15	What are the key gaps in BGC measurements and what might be available in 5 or 10 years? Initial Findings	Matt Mowlem
14:15	14:35	Slido Feedback / Q&A	Plenary
14:35	14:40	Comfort Break	
14:45	14:50	What are the options for advancing the identified measurement priorities? Initial Findings	Rohan Allen
14:50	15:10	Slido Feedback / Q&A	Plenary
15:10	15:15	What are the implications for autonomous platform design, use and data management? Initial Findings	Matt Mowlem
15:15	15:35	Slido Feedback / Q&A	Plenary
Wrap-Up			
15:35	15:45	What do you think are the key messages from today's event? Slido Feedback / Q&A	Plenary
15:45	15:50	Wrap-Up and Next Steps	Matt Mowlem