

IMarEST Oceans of Knowledge 2025

8th October

National Oceanography Centre
Southampton



9:15	Introduction and Welcome Dr Edward Steele, <i>IT Fellow for Data Science</i> , Met Office
9:25	The Opportunity Professor Stephen de Mora, IMarEST President
9:35	Keynote Address Professor John Siddorn, <i>Chief Executive</i> , National Oceanography Centre
The Concepts Chair: Dr Edward Steele, IT Fellow Data Scientist, Met Office	
10:00	AI Technologies Niall Robinson, Developer Relationship Manager Earth 2, Nvidia
10:20	AI Techniques Dr Marcus Juniper, Senior Marine Applications Scientist, Met Office
10:40	AI Explainability Madeleine Waller, Kings College London
11:00	Q&A <ul style="list-style-type: none">• Dr Edward Steele (moderator)• Niall Robinson• Dr Marcus Juniper• Madeleine Waller
11:20-11:50	Break
The Domains Chair: Professor Ralph Rayner FIMarEST, Professorial Research Fellow, Grantham Research Institute and National Oceanic and Atmospheric Administration	
11:50	Atmosphere Dr Peter Lean, Senior Scientist, ECMWF
12:10	Data Driven Physical Ocean Modelling Dr Rachel Furner, <i>Machine Learning & Ocean Modelling Scientist</i> , ECMWF
12:30	Ocean Biogeochemistry Dr Josef Skakala, Plymouth Marine Laboratory

12:50	Ocean Climate Professor Caroline Rowland, <i>Head Oceans Cryosphere and Climate Change</i> , Met Office
13:10	Q&A <ul style="list-style-type: none"> • Professor Ralph Rayner (moderator) • Dr Peter Lean • Dr Rachel Furner • Dr Josef Skakala • Professor Caroline Rowland
13:30-14:30	Lunch
Case Studies Chair: Dr Sophie Arana, Research Application Manager, The Alan Turing Institute	
14:30	Sensor Networks Dr Ajit Pillai, <i>Offshore Renewable Energy Researcher, Senior Lecturer, Royal Academy of Engineering Research Fellow, University of Exeter/ RAEng</i>
14:50	Shipping & Polar Dr Jonathan Smith, <i>Deputy Science Leader of AI Lab/ Principal Research Scientist in AI/ML, British Antarctic Survey</i>
15:10	Fisheries Dr Thomas Catchpole, <i>Principal Fisheries Science Advisor, Cefas</i>
15:30	Break
16:00	Marine Mammals Emily Charry Tissier, <i>Founder & CEO, Whale Seeker</i>
16:20	Costal Hazards Professor Jenny Brown, <i>Coastal Oceanographer, National Oceanography Centre</i>
16:40	Q&A <ul style="list-style-type: none"> • Dr Sophie Arana (moderator) • Dr Ajit Pillai • Dr Jonathan Smith • Dr Thomas Catchpole • Professor Jenny Brown
17:00	Closing Remarks Professor Ralph Rayner
17:15	Drinks reception