

VEPOSSSS Meeting 2023

Shelf Seas: Threats, Opportunities and Challenges

at the Marine Centre Wales in Menai Bridge, UK

on 12 and 13 September 2023

Speakers: Please prepare a **15-minute talk**. Your presentation slot is 20 minutes long to allow for short questions directly after your talk. There will be more time for questions during the discussion at the end of your session.

Tuesday, 12 September 2023

09:00–12:30	Session 1 (chair: Shelagh Malham) From wind to energy
09:00–09:20	Tom Rippeth (Bangor University) <i>(Nearly) 50 years of H/U3: marine heatwaves, blue carbon and renewable energy</i>
09:20–09:40	Jeff Carpenter (Hereon) <i>Potential impacts of offshore wind farms on the stratification of shelf seas – an update</i>
09:40–10:00	Jonathan Sharples (University of Liverpool) <i>Will floating offshore wind farms affect shelf sea biogeochemistry?</i>
10:00–10:20	Ben Lincoln (Bangor University) <i>Dissipation measurements in tidally generated wakes from an offshore wind farm</i>
10:20–10:50	Coffee break
10:50–11:10	Charlie Lloyd (Hull University) <i>Resolving the wakes of offshore wind infrastructure in two layer flows</i>
11:10–11:30	Chris Unsworth (Bangor University) <i>Seabed modification around offshore wind farms</i>
11:30–11:50	Mark Coughlan (UC Dublin) <i>Quantification, characterisation, source and fate of carbon storage in sediments</i>
11:50–12:20	Discussion
12:30–14:00	Lunch break with group photo
14:00–16:00	Session 2 (chair: Pete Robins) From land to sea
14:00–14:20	Julie Pietrzak (TU Delft) <i>On the role of extremes on river plumes in shelf seas, with a focus on the Rhine ROFI</i>
14:20–14:40	Xiangyu Li (IOW) <i>A numerical study of the effects of islands on the offshore river plume transport</i>
14:40–15:00	Nina Reese (IOW) <i>Local mixing and diahaline exchange flow under extreme runoff conditions</i>
15:00–15:20	Erika Henell (IOW) <i>Applying a local diahaline water mass transformation framework to the Baltic Sea</i>
15:20–15:50	Discussion
16:00–16:30	Tea break
16:30–18:30	Poster session
evening	Dinner & Drinks

Wednesday, 13 September 2023

09:00–12:30	Session 3 (chair: Sophie Ward) From coastal to deep ocean
09:00–09:20	Leo Middleton (WHOI) <i>Ocean cyclone splitting ventilates the upper ocean</i>
09:20–09:40	Evriliki Chrysagi (IOW) <i>Salinity inversions in the thermocline due to wind-induced differential advection</i>
09:40–10:00	Timothy Whitton (Bangor University) <i>Is bottom fishing impacting blue carbon?</i>
10:00–10:20	Charlotte Williams (NOC) <i>Coastal and Shelf Seas in a global context: Identifying typologies around the world</i>
10:20–10:50	Coffee break
10:50–11:10	John Huthnance (NOC) <i>Ocean-shelf exchange and NW European shelf function</i>
11:10–11:30	Katie Sieradzan (Bangor University) <i>Shelf sea representation in a global climate model</i>
11:30–11:50	Yueng-Djern Lenn (Bangor University) <i>ATOMIX: Analysing ocean turbulence observations to quantify mixing</i>
11:50–12:20	Discussion
12:30–13:30	Lunch break
13:30–15:45	Session 4 (chair: Yueng-Djern Lenn) From ice to water
13:30–13:50	Natasha Lucas (BAS) <i>On iceberg A-68 – one of the largest icebergs ever recorded</i>
13:50–14:10	Martyn Roberts (Bangor University) <i>Changing the layer cake: Stratification trends in the Barents-Kara Seas (BKS)</i>
14:10–14:30	Hans Burchard (IOW) <i>Decomposition of estuarine circulation and residual stratification under land-fast sea ice</i>
14:30–14:50	Ilona Goszczko (IO PAN) <i>Insights into observing shelf-slope exchange near Spitsbergen over the past decade</i>
14:50–15:10	Markus Reinert (IOW) <i>Ice–ocean interactions below a floating glacier tongue in Greenland</i>
15:10–15:40	Discussion
15:45	Farewell tea

For those arriving early: Let's meet at The Liverpool Arms (pub in Menai Bridge near the pier) from around 8 p.m.

For those departing late, we will organise a get-together on Wednesday evening, too. More information will follow.

See the website for travel directions, accommodation suggestions, contact details etc.:

<https://www.vepossss.eu/m23>