

Oceans 2025 Annual Science Meeting: NOCS 28-29 May 2008

Schedule

Wednesday 28 May

11.00 Advisory Board and Oceans 2025 Executive Board. Introduction to the programme

12.00 - 13.00 Buffet lunch for all participants. Poster display

13.00 Welcome, Aims of Meeting *Ed Hill*

National Facilities Chair: Ed Hill

13.05 British Oceanographic Data Centre (*Lesley Rickards, POL*)

13.20 Permanent Service for Mean Sea Level (*Lesley Rickards, POL*)

13.30 Culture Collection of Algae and Protozoa (*Frithjof Küpper, SAMS*)

13.45 NERC Earth Observation Data Acquisition & Analysis Service (*Steve Groom, PML*)

13.50 Discussion

Ocean circulation, sea level and polar studies Chair: Andrew Willmott

14.00 The Atlantic and Southern Ocean in a changing climate (*Simon Josey, NOCS*)

14.15 Arctic and boreal seas in a rapidly changing climate (*Ray Leakey, SAMS*)

14.30 Geodetic oceanography, polar oceanography and sea level (*Mark Tamisiea, POL*)

14.45 Associated sustained observations¹:

- The meridional overturning circulation (SO 3; *Stuart Cunningham, NOCS & Roger Proctor, POL*)
- GLOSS sea level network (SO7; *Roger Proctor, POL*)
- The extended Ellett line (SO 4; *Denise Smythe-Wright, NOCS*)
- Surface marine observations (SO9; *Denise Smythe-Wright, NOCS*)
- Argo profiling floats (SO 5; *Brian King, NOCS*)
- Antarctic Circumpolar Current: transport and properties (SO 6; *Brian King, NOCS*)
- Arctic shelf time series (SO13, *Toby Sherwin, SAMS*)

15.15 Session-specific discussion

15.30 Tea/coffee

Biogeochemical cycles Chair: Ken Jones

15.45 Marine biogeochemical cycles in a high CO₂ world (*Phil Nightingale, PML*)

16.00 The ocean's biological carbon pump and its sensitivity to climate change (*Richard Sanders, NOCS*)

16.15 Cellular and molecular responses of calcification to rapid climate change (*Colin Brownlee, MBA*)

16.30 Associated sustained observations:

- Atlantic Meridional Transect (SO1; *Andrew Rees, PML*)

16.35 Session-specific discussion

Continental margins and deep ocean Chair: Peter Claridge

16.45 Continental margins and biogeochemistry of the deep ocean (*Russell Wynn, NOCS*)

17.05 Associated sustained observations:

- Porcupine Abyssal Plain observatory (SO2; *Phil Weaver, NOCS*)

17.10 Session-specific discussion

17.20 General discussion

17.45 *Session ends*

19.30 Dinner

¹ Most sustained observations contribute to several Oceans 2025 themes. The groupings given here are for the purposes of this meeting only, and it is expected that additional linkages will be identified in discussions.

Thursday 29 May

Shelf and coastal processes Chair: Phil Williamson

- 09.00 Coastal and shelf processes and interactions (*Judith Wolf, POL*)
09.15 Topographic regime control over shelf sea systems (*Mark Inall, SAMS*)
09.30 Consequences of climate change and anthropogenic activity on ecosystem functioning of estuaries, coasts and shelf seas (*Steve Widdicombe, PML*)
09.45 Associated sustained observations:
 - Western Channel observatory (SO 10; *Tim Smyth, PML*)
 - Liverpool Bay coastal observatory (SO 11; *Roger Proctor, POL*)
 - Tiree Passage time series (SO 12; *Mark Inall, SAMS*)10.10 Session-specific discussion
10.20 Coffee/tea

Biodiversity and ecosystem functioning Chair: Peter Claridge

- 10.35 Mechanisms regulating marine biological diversity (*Mel Austen, PML*)
10.50 Resilience and predictability of ecosystem services (*Mike Burrows, SAMS*)
11.05 Recruitment and survival in coastal ecosystems (*Colin Brownlee, MBA*)
11.20 Associated sustained observations:
 - Longterm observations of marine mammals (SO 14; *Ailsa Hall, SMRU*)
 - Continuous Plankton Recorder survey (SO 15; *Martin Edwards, SAHFOS*)11.50 Session-specific discussion

Sustainable marine resources Chair: Colin Brownlee

- 12.00 Climatological trends in the physical environment (*Roger Proctor, POL*)
12.15 How environmental changes translate to ecological responses and economic impacts (*Jerry Blackford, PML*)
12.30 Integrating individual to population processes in a changing marine environment (*David Sims, MBA*)
12.45 Session-specific discussion
12.55 General discussion
13.15 Lunch, posters. [*Private lunch for Advisory Board*]

Technology development Chair: Andrew Willmott

- 14.00 Enabling technology for ocean telepresence (*Gwyn Griffiths, NOCS*)
14.15 Development of instruments, platforms and measuring systems (*Chris Balfour, POL*)
14.30 Towards an optimal observing network (*David Meldrum, SAMS*)
14.45 Seal-tracking technologies (*Mike Fedak, SMRU*)
14.55 Session-specific discussion
15.05 Tea/coffee

Ocean prediction systems Chair: Ed Hill

- 15.20 Developing and integrating coastal-ocean modelling systems (*Roger Proctor, POL*)
15.35 Quantifying and reducing uncertainty in marine ecosystem models (*Icarus Allen, PML*)
15.50 Development and maintenance of leading-edge ocean & coupled climate models (*Tom Anderson, NOCS*)
16.05 Session-specific discussion
16.15 General discussion; overall conclusions
16.25 *End of plenary sessions*

16.30 - 17.30 Advisory Board and Oceans 2025 Executive Board

Friday 30 May 09.30 - 14:00 Oceans 2025 Executive Board