



CLASS Modelling Workshop

Mon. 26 February – Fri. 1 March, 2024

National Oceanography Centre, European Way, Southampton, SO14 3ZH

The **Climate Linked Atlantic Sector Science** project (CLASS) is a 6-year NERC-funded project that provides world-leading science to improve our understanding of the Atlantic Ocean. Involving a team of scientists from across the UK's marine institutions, CLASS builds upon sustained ocean observational science, state-of-the-art technology and world-class modelling.

As the CLASS project concludes, the National Oceanography Centre (NOC) is running a workshop / hackathon to showcase its modelling activities. This will provide an opportunity for marine researchers in the UK to become familiar with a broad range of model simulations, including high-resolution regional and global modelling, integrated ecological and biogeochemical processes, and simulations spanning from the near-present day to the end of the 21st century. Supported by NOC modelling experts, workshop attendees will learn how models can complement observational or data-based analysis.

Workshop activities will include:

- An introduction to the basic principles underlying ocean physical and biogeochemical dynamics, and how modelling approaches support novel research questions.
- Guided analysis of model outputs using Python, with an introduction to tools such as [COAST](#).
- A collaborative group analysis based on attendee-run Lagrangian simulations.
- An icebreaker event where attendees can share their own research and an off-site activity (TBC).

Criteria:

Applicants must be PhD students or early career researchers (within 5 years of PhD award). Applicants should have a basic familiarity with Python and gridded data products.

Requirements:

Workshop attendees will need to bring a laptop with prerequisites installed/set-up (e.g., may include access to services such as JASMIN). Details will be announced in due course.

Costs, Travel and Subsistence:

Accommodation (4 nights) and meals will be provided at no cost. Attendees are responsible for arranging and paying for their own travel to Southampton.

Registration:

Please [complete the application form](#) to register for the workshop. Registration closes on **22 January 2024** and places are limited and will be allocated on a first come, first served basis so please register early! Any questions? Use the [contact form](#).

Course Organisers:

A. Yool (NOC Southampton), J. Jardine, R. Patmore (NOC Liverpool), Carla Sands [admin]

