

Please put your poster up on your allocated, numbered poster board. Pins and tape will be provided. All posters will be on display for the duration of the conference in the Poster Hall (level-1). Posters will be presented during 3 sessions, on Monday, Tuesday and Wednesday. Presenting authors are required to stand next to their poster for the duration of their designated session to present their research and answer questions. To ensure that similar numbers of posters are presented in each session, the SOLAS research foci have been divided as follows:

Session 1 (Monday 16th): Focus 1 (part 1)

Session 2 (Tuesday 17th): Focus 2

Session 3 (Wednesday 18th): Focus 3 + Focus 1 (part 2)

An effort has been made to group posters according to their subject, although these may not all be presented during the same session (Focus 1 in particular) to allow a more comfortable distribution of presenters.

Focus 1: Biogeochemical Interactions and Feedbacks Between Ocean and Atmosphere

The objective of Focus 1 is to quantify feedback mechanisms involving biogeochemical coupling across the air-sea interface, which can only be achieved by studying the ocean and atmosphere in concert. These couplings include emissions of trace gases and particles and their reactions of importance in atmospheric chemistry and climate, and deposition of nutrients that control marine biological activity and carbon uptake.

Activity 1.1 Sea-salt Particle Formulation and Transformations

Activity 1.2 Trace Gas Emissions and Photochemical Feedbacks

Activity 1.3 Dimethylsulphide and Climate

Activity 1.4 Iron and Marine Productivity

Activity 1.5 Ocean-Atmosphere Cycling of Nitrogen

Focus 2: Exchange Processes at the Air-Sea Interface and the Role of Transport and Transformation in the Atmospheric and Oceanic Boundary Layers

The objective of Focus 2 is to develop a quantitative understanding of processes responsible for air-sea exchange of mass, momentum and energy to permit accurate calculation of regional and global fluxes. This requires establishing the dependence of these facial transfer mechanisms on physical, biological and chemical factors within the boundary layers, and the horizontal and vertical transport and transformation processes that regulate these exchanges.

Activity 2.1 Exchange Across the Air-Sea Interface

Activity 2.2 Processes in the Oceanic Boundary Layer

Activity 2.3 Processes in the Atmospheric Boundary Layer

Focus 3: Air-Sea Flux of CO₂ and Other Long-Lived Radiatively Active Gases

The air-sea CO₂ flux is a key inter-reservoir exchange within the global carbon cycle. The oceans also play an important role in the global budgets of other long-lived radiatively active gases, including N₂O and to some extent CH₄. The objective of Focus 3 is to characterise the air-sea flux of these gases and the boundary layer mechanisms that drive them, in order to assess their sensitivity to variations in environmental forcing.

Activity 3.1 Geographic and Sub-Decadal Variability of Air-Sea CO₂ Fluxes

Activity 3.2 Surface Layer Carbon Transformations in the Ocean: Sensitivity to Global Change

Activity 3.3 Air-Sea Flux of N₂O and CH₄

Poster competition

In order to support students and encourage excellence, SOLAS and Environmental Chemistry are offering prizes for the top student posters. All participants registered as students will automatically be entered in the competition. Each day a panel of judges will identify the best posters based on research quality and presentation. Prizes will be awarded at the banquet on Wednesday 18th November.

Schedule

Poster titles and numbers are listed below in alphabetical order by first author (or presenting author for those marked by a *) for each of the 3 sessions and a special section on SOLAS-related project overviews.

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