

Following is a list of the poster titles and the first authors. All posters will be on display for the duration of the conference in the Exhibition Hall (Hall F). However, each of the poster sessions will concentrate on one of the three SOLAS foci. Poster presenters are expected to stand by their posters during their sessions, please refer to the 'Programme' for schedule. Please put your poster up on designated poster board. Pins and tape will be available onsite.

Poster competition

In order to support students and encourage excellence, SOLAS is offering prizes for the top poster on each focus. Only participants registered as students can participate in the competition. But students are not automatically entered into the competition. If you wish to be part of it, mention this to the registration desk. Each day the poster session chairs will convene a panel of judges to identify the top poster based on research quality and presentation. Prizes will be awarded at the banquet on Thursday 8th March.

Research programme and national SOLAS activities:

FIRST AUTHOR	TITLE	NUMBER
Kanakidou, M	Commission on atmospheric chemistry and global pollution: Organization and activities	0001
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Simo, R	SOLAS research in Spain	0006
Uematsu, M	Linkages in biogeochemical cycles between surface ocean and lower atmosphere	0007
Williamson, P	UK SOLAS: measuring, monitoring and modelling in the North Atlantic	0008

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

Chairs: David Erickson, Jacqueline Boutin and Shao-Ling Shang

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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

Chairs: David Kieber, Richard Rivkin and Hui-Wang Gao

FIRST AUTHOR	TITLE	NUMBER
Benoit, P	Diapycnal mixing in the thermocline: estimates from the C-SOLAS NE Pacific mooring	2001
Boutin, J	Air-sea CO ₂ exchange coefficients deduced from satellite QSCAT wind speeds from 1999 to 2006	2002
Boutin, J	CO ₂ and associated parameters variability in the Southern Atlantic Ocean: CARIOCA and ARGO drifters	2003
Cunliffe, M	Microbial biogeography and community structure in the sea surface microlayer	2004
Das, Y	Simulation of some boundary layer characteristics using 1-D PBL model during ARMEX-I	2005
De Leeuw, G	Air Ion Spectrometer measurements of marine/coastal secondary particle formation	2006
De Leeuw, G	Development of a long term air-sea interaction monitoring station at FRF pier in Duck (NC, USA)	2007
De Leeuw, G	Marine Aerosol Production (MAP)	2008
De Leeuw, G	Marine Aerosol Production (MAP): Overview and first results from the Celtic Explorer cruise in the North Atlantic	2009
De Leeuw, G	Observations of secondary particle formation above the North Atlantic	2010
Gao, H	Size distribution of inorganic nitrogen of aerosol in Qingdao	2011
Griessbaum, F	Direct measurement of atmospheric aerosol fluxes in the marine boundary layer using a ship based eddy covariance system	2012
Harrison, E	Reformation and stabilisation of the sea surface microlayer	2013
Harvey, M	The SOLAS Air-sea Gas Exchange (SAGE) 2004 Experiment	2014
Ho, D	Southern Ocean Gas Exchange Experiment	2015
Hu, J	Phytoplankton features of warm and cold eddies in northern South China Sea	2016
Hultin, K	Microphysical characterization of aerosol particles produced under controlled bubble bursting experiments using Baltic Sea-, North Sea-, and Atlantic waters	2017
Jeffery, C	1-Dimensional modelling of convective CO ₂ exchange in the Tropical Atlantic	2018
Jenkins, A	Estimation of air-sea fluxes from moving measurement platforms	2019

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Jinhui, S	Dissolved organic nitrogen in the marine aerosols over the marginal seas of China	2020
Kaiser, J	Metabolic balance of the surface ocean along two Atlantic Meridional Transects	2021
Karlsson, A	The vertical and horizontal distribution of volatile organo-halogens in the Arctic	2022
Kawamura, K	Marine-derived fatty acids and their oxidation products in the remote marine aerosols from the western North Pacific	2023
Kettle, A	The upper ocean response to a summer Gale South of Iceland: importance of sea spray in the heat and freshwater budgets of storms	2024
Kieber, D	Marine aerosols produced from bursting bubbles: Properties, photochemical evolution, and implications for radiative transfer	2025
Kondo, F	Air-sea CO ₂ flux by inertial dissipation method over the open ocean	2026
Lee, H	Gas exchange rates in a tidal coastal ocean measured using a dual-tracer method	2027
Losno, R	Dissolution of natural aerosol and photochemically activated dust	2028
Losno, R	Dust size measurements over Austral Ocean	2029
Mahanta, C	Potential climate change impact on the Southwest Monsoon modulated freshwater pulsation and consequent air-sea CO ₂ flux in the Bay of Bengal	2030
Martensson, M	Are parameterised sea salt emissions consistent with the observed remote marine sea salt aerosol, when tested in the UHMA aerosol model with competing aerosol sources and sinks?	2031
Nilsson, D	Estimating a relationship between aerosols optical thickness and surface wind speed over the ocean	2032
Nilsson, D	Primary marine aerosol emissions: size resolved eddy covariance measurements and comparison with sea salt aerosol source parameterisations	2033
Norman, A	DMS oxidation and new aerosol formation: insights from C-SOLAS	2034
Pineda Rojas, A	Deposition of nitrogen coming from the NO _x emitted at the Metropolitan Area of Buenos Aires on waters of de la Plata River	2035

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Salter, M	Determination of surface active substances in sea surface microlayer samples from the North Sea and Blyth Estuary	2036
Saltzman, E	Shipboard eddy correlation measurements of the air/sea flux of DMS	2037
Sempreviva, A	Heat transfer during high wind episodes in the surface layer in different environments	2038
Sempreviva, A	On the temperature and humidity dissimilarity in the marine boundary layer	2039
Smith, M	Uncertainties in gas exchange parameterisation	2040
Smoydzin, L	Modeling organic surface films on atmospheric aerosol particles and their influence on chemistry	2041
Suntharalingam, P	Influence of the oceanic flux of carbonyl sulfide on observed atmospheric variability	2042
Tsukamoto, O	Eddy-covariance measurement of air-sea CO ₂ fluxes on-board cruising ship	2043
Wagner, T	Transport and deposition of nitrogen oxides to oceans	2044
Wang, L	Nitrification and inorganic nitrogen distribution in a large perturbed river/estuarine system: the Pearl River Estuary, China	2045
Williams, J	Air/sea fluxes of methanol, acetone, acetaldehyde, isoprene and DMS from the Norwegian Sea following a phytoplankton bloom	2046
Williams, J	Project OOMPH - Organics over the Ocean Modifying Particles in both Hemispheres	2047
Woodhouse, M	Oceanic DMS emissions and climate feedbacks	2048
Zappa, C	Environmental turbulent mixing controls on gas exchange between water and the atmosphere	2049
Zhang, C	Interannual variation of sea surface temperature distribution in the Taiwan Strait during summer monsoon	2050
Zhang, Y	The barrier layer in the East China Sea	2051

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

Chairs: Urumu Tsunogai, Alex Baker and Wei-Dong Zhai

FIRST AUTHOR	TITLE	NUMBER
Bai, Y	Spatio-temporal variation of particle organic carbon in China Yellow Sea and East Sea using ocean color remote sensing	3000
Bellerby, R	Centennial aragonite saturation states in the High latitude North Atlantic	3001
Bhole, A	Biogeochemical responses of plankton ecosystem for marine aqua food production: Studies on ocean-atmosphere interactions	3002
Borges, A	Carbon dioxide in European coastal waters	3003
Cai, W	High frequency CO ₂ variability in North American coastal waters	3004
Cai, W	Sea surface pCO ₂ -SST relationships, biogeochemical cycling of inorganic carbon and net community production estimation in a cold-core cyclonic eddy in the lee of Hawaii	3005
Cai, W	Surface water CO ₂ in the Mississippi River Plume and Northern Gulf of Mexico	3006
Cai, W	Synthesis of air-sea CO ₂ flux and control mechanisms in the US east coast and other western boundary current shelves	3007
Chen, B	On the dynamics of surface seawater pCO ₂ and carbonate system in a coastal upwelling system - the Taiwan Strait	3008
Chen, H	Dissolved carbohydrates in the Pearl River Estuary, China	3009
Chen, J	Anthropogenic CO ₂ signals recorded in particulate matter and surface sediments in the South China Sea	3010
Chen, L	Reviewing CHINARE's SOLAS and developing China's IPY 2007-08 projects in polar regions	3011
Delille, B	CO ₂ dynamics and related air-ice-sea gas transfer in spring pack and land fast sea ice	3012
Ferron, S	Methane and nitrous oxide distribution in surface waters of the Gulf of Cadiz	3013

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Gao, Z	Distributions of pCO ₂ and their control in the Western Arctic Ocean	3019
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Johannessen, T	The CARBOOCEAN-IP: Europe's motor for marine carbon sources and sinks assessment	3028
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Kim, J	The effect of seawater CO ₂ concentration on growth of a natural phytoplankton assemblage in a controlled mesocosm experiment	3031
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Ma, H	Particulate organic carbon export fluxes in the South China Sea estimated from ^{234}Th - ^{238}U disequilibria	3036
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Zhang, Z	Multilayer study of CO ₂ system and carbon fluxes in the Yellow Sea, South China Sea and Qingdao Coastal water	3057