

What is SOLAS?

International organisation dedicated to achieving quantitative understanding of the key biogeochemical-physical interactions and feedbacks between the ocean and atmosphere, and of how this coupled system affects and is affected by climate and global change.

Core Themes:

1. Greenhouse gases and the oceans
2. Air-sea interface and fluxes of mass and energy
3. Atmospheric deposition and ocean biogeochemistry
4. Interconnections between aerosols, clouds, and marine ecosystems
5. Ocean biogeochemical control of atmospheric chemistry

Cross-Cutting Themes:

- Integrated topics: upwelling systems, polar oceans, Indian Ocean
- SOLAS Science and Society
- Climate Intervention

SOLAS Session at PICES 2021

S5: BIO/POC Topic Session

Atmospheric nutrient deposition and microbial community responses, and predictions for the future in the North Pacific Ocean

Conveners

Jun Nishioka (Japan, corresponding)
Santiago Gasso (USA)
Maurice Lefebvre (Canada)

Huiwang Gao (China)
Kitack Lee (Korea)
Guiling Zhang (China)



Future Events

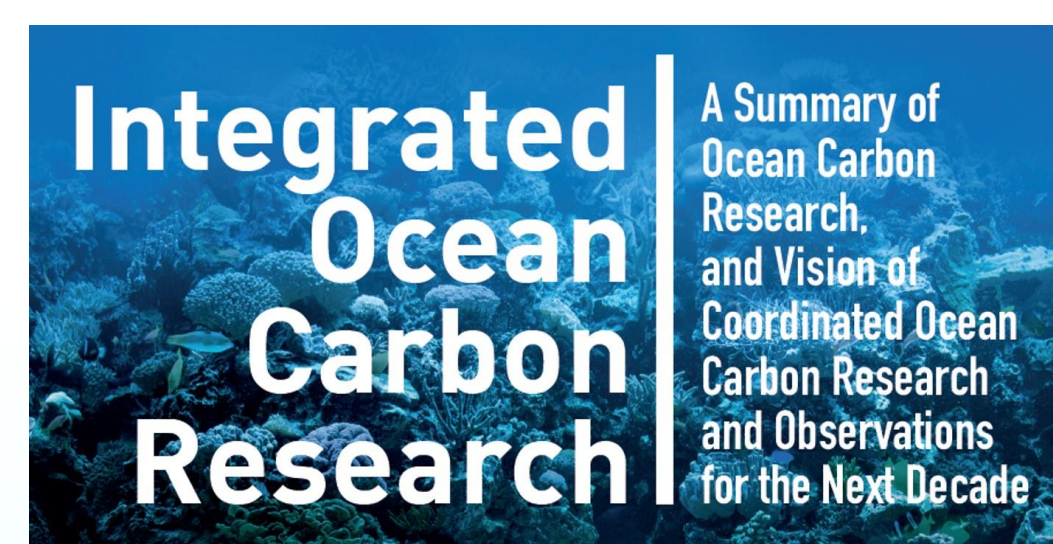


- Workshop series on Air-sea eddy covariance best practices, 1st scope meeting, 21 September 2021, online
- EUMETSAT-SOLAS workshop on Remote sensing for ocean-atmosphere interactions studies and applications, 29 November-3 December 2021, online
- Ship Emission workshop, March 2022
- Session on Air-sea chemical fluxes: Impacts on biogeochemistry and climate at the EGU General Assembly 2022, 3–8 April 2022, Vienna, Austria
- 53rd International Ocean Liège Colloquium, 16-20 May 2022, Liège, Belgium
- 8th International Symposium on Gas Transfer at Water Surfaces, 18-21 May 2022, Plymouth, UK
- SOLAS Summer School 2022 online /2023 Cape Verde
- SOLAS Open Science Conference, 25-30 September 2022, Cape Town, South Africa

SOLAS Sponsored Projects

➤ Integrated Ocean Carbon Research (IOC-R) Working Group

- Jointly sponsored with IOCCP, IMBeR, CLIVAR and GCP, under the auspices of IOC



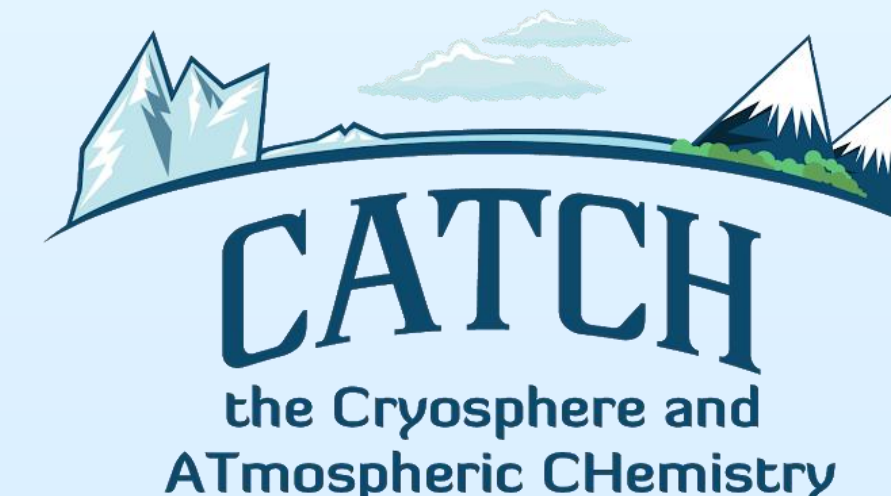
➤ SOLAS/IMBeR Ocean Acidification (SIOA) Working Group

- OA-ICC advisory board



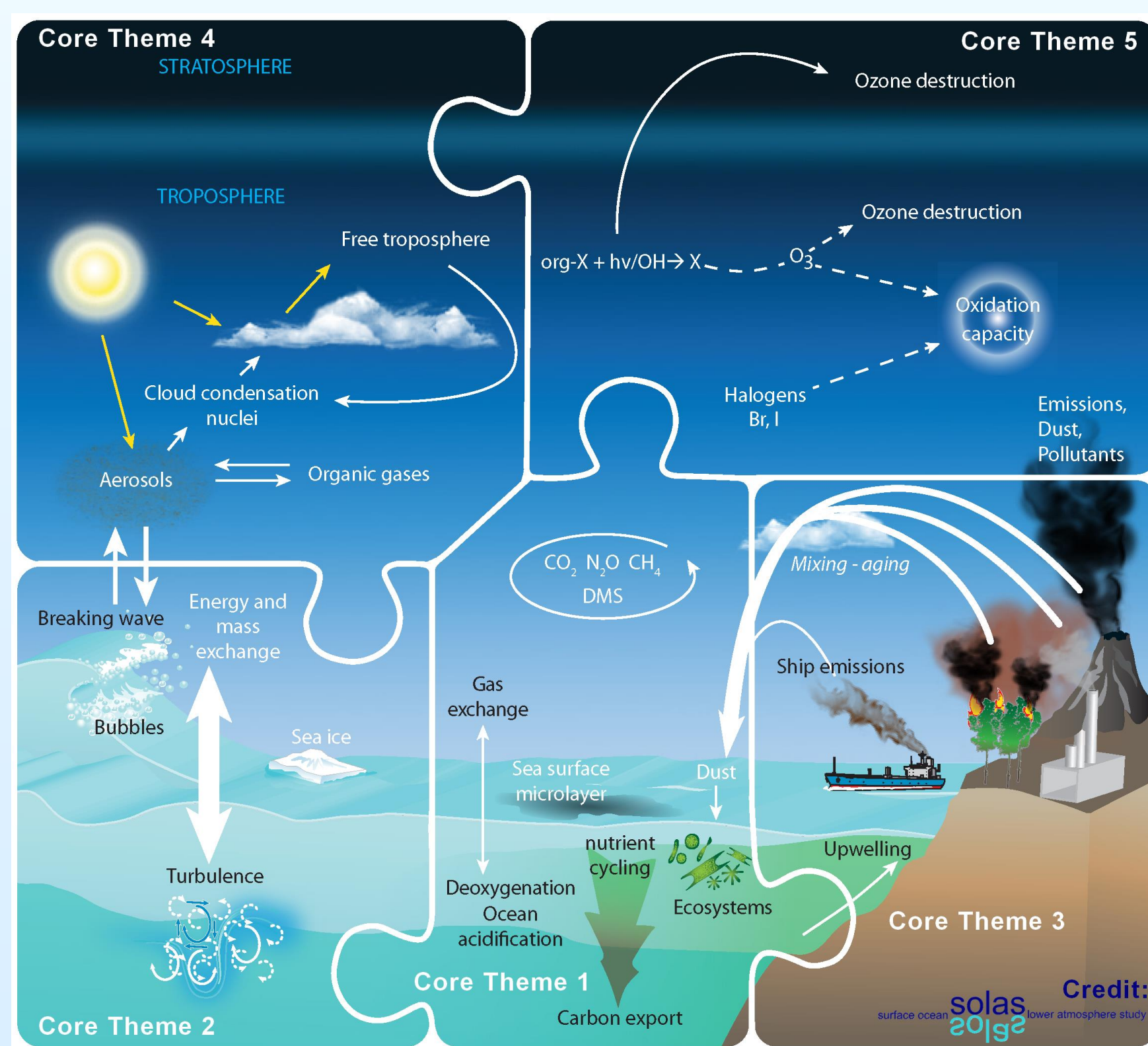
➤ Biogeochemical Exchange Processes at Sea-Ice Interfaces (BEPSII)

- Jointly sponsored with CliC



➤ Cryosphere and Atmospheric Chemistry (CATCH)

- Jointly sponsored with IGAC



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Get involved

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