The Surface Ocean – Lower Atmosphere Study

Linking Ocean-Atmosphere Interactions with Climate and People

What is SOLAS?

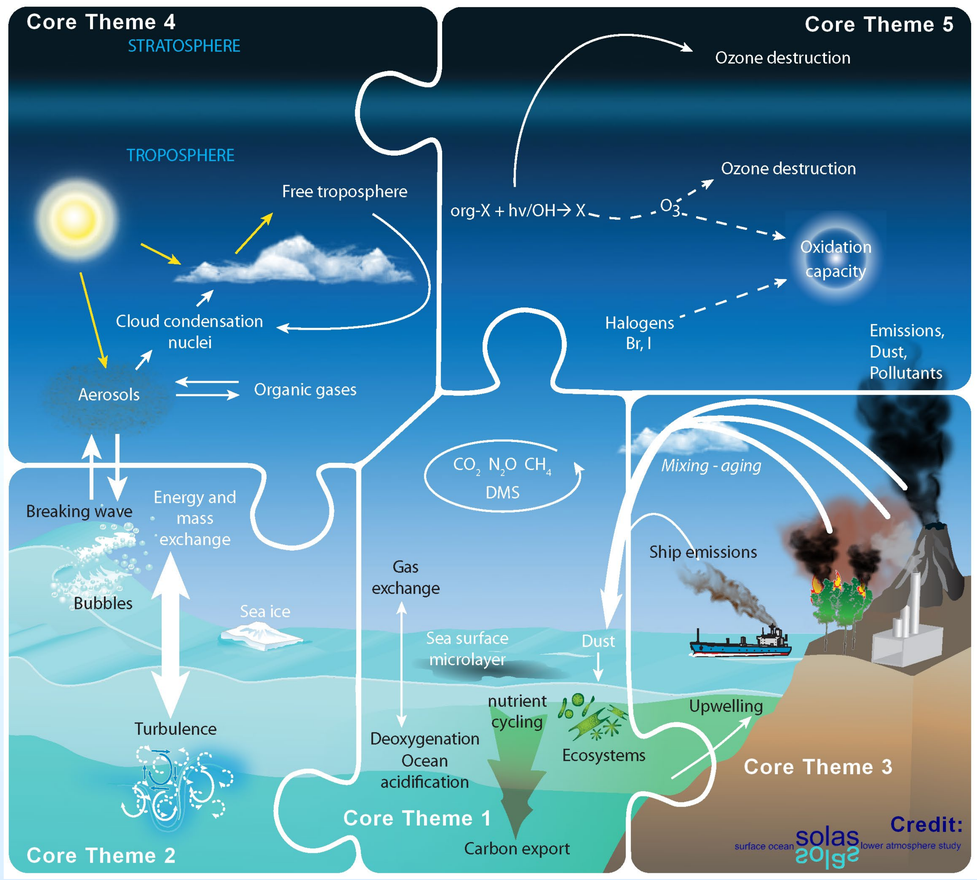
International organisation dedicated to achieving quantitative understanding of the key biogeochemical-physical interactions and feedbacks between the ocean and atmosphere, and of how this coupled system affects and is affected by climate and global change.

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:

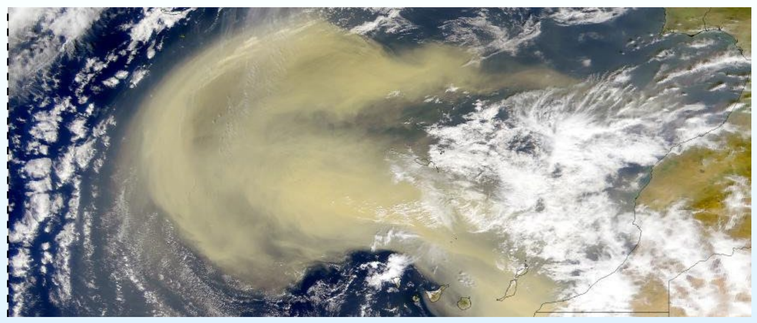
- Integrated topics: upwelling systems, polar oceans, Indian Ocean
- SOLAS Science and Society
- Climate Intervention



SOLAS relevant session at PICES 2020

Session 5: PICES virtual meeting 2020

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



Conveners:
Jun Nishioka (Japan)
Guiling Zhang (China)
Kitack Lee (Korea)
Huiwang Gao (China)
Maurice Levasseur (Canada)
Santiago Gasso (USA)

- Live Oral 7 presentations
- Recorded Oral 5 presentations
- E-Poster 17 presentations

Total 29 presentations

SOLAS Activities & Projects

➢ Carbon Working Groups:

1. SOLAS/IMBeR Ocean Acidification (SIOA) Working Group
2. Integrated Ocean Carbon Research (IOC-R) Working Group in collaboration with IMBeR, IOCCP, GCP, CLIVAR, and the IOC.

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

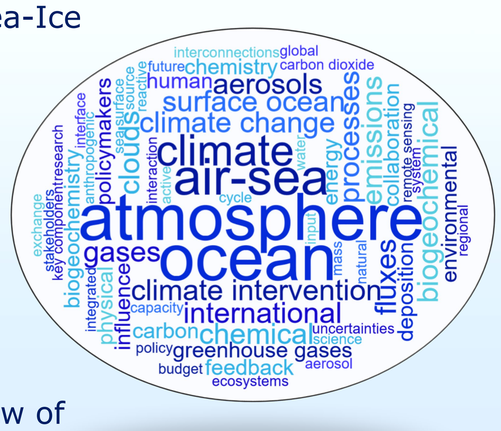
- Jointly sponsored with CliC

➢ Cryosphere and Atmospheric Chemistry (CATCH)

- Jointly sponsored with IGAC.

➢ Global Ocean Oxygen Network (GO_2NE)

- IOC expert group.
- Provides a global and multidisciplinary view of deoxygenation, with a focus on understanding its multiple aspects and impacts.



Future Events

➢ **XMAS-V Symposium on Multidisciplinary sciences can serve a sustainable and healthy ocean.** M11. Jan 2021 – 14. Jan 2021, Xiamen, China

➢ **8th International Symposium on Gas Transfer at Water Surfaces.** May 18-21, 2021, Plymouth, UK

➢ **Sustainability Science & Innovation 2021. SOLAS sessions on Ocean Governance and Climate Intervention.** June 12-15, 2021, Brisbane, Australia

➢ **GEOTRACES - SOLAS workshop on Iron at the Air-Sea Interface,** Ashville, North Carolina, USA, July 26-29 or August 2-6, 2021

➢ **BEPSII Winter School,** Cambridge Bay, Canada

➢ **8th SOLAS Open Science Conference. 2022, Cape Town, South Africa.**

SOLAS sponsors

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State Key Laboratory of Marine Environmental Science (Xiamen University)
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International Council for Science SCOR Scientific Committee on Oceanic Research
WCRP World Climate Research Programme
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Get involved

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