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Surface Ocean **solas** Lower Atmosphere Study
20192

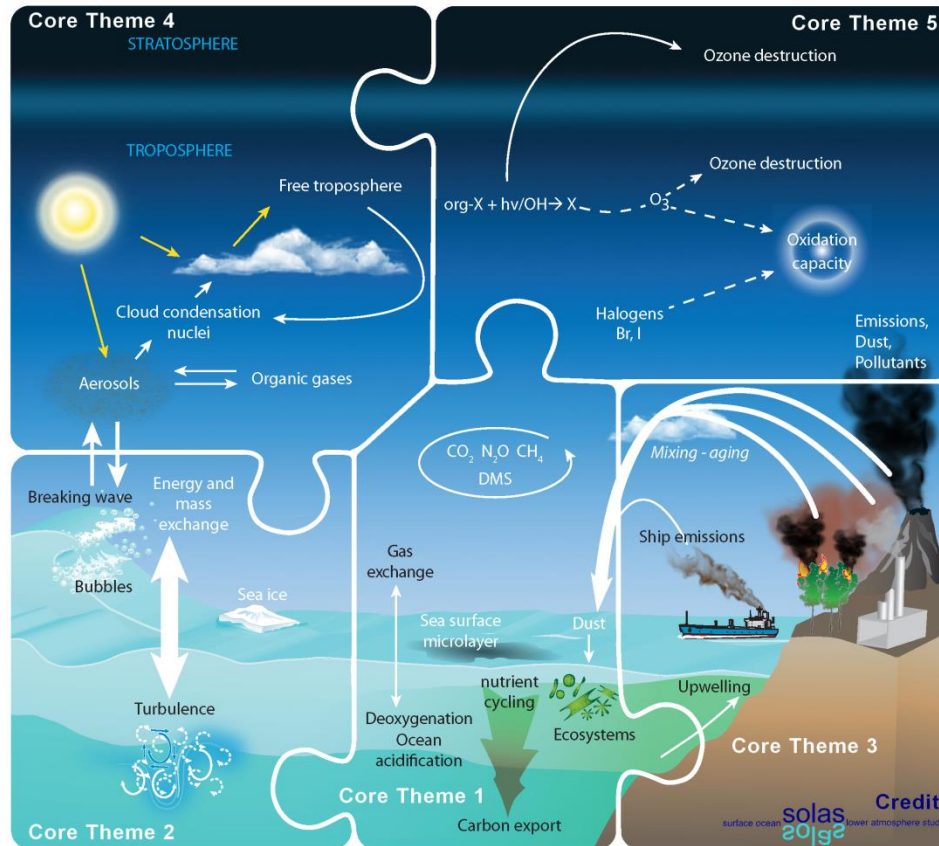
futureearth
Research. Innovation. Sustainability.



SOLAS 2015-2025: Core Themes

4. Interconnections between aerosols, clouds, and marine ecosystems

2. Air-sea interface and fluxes of mass and energy

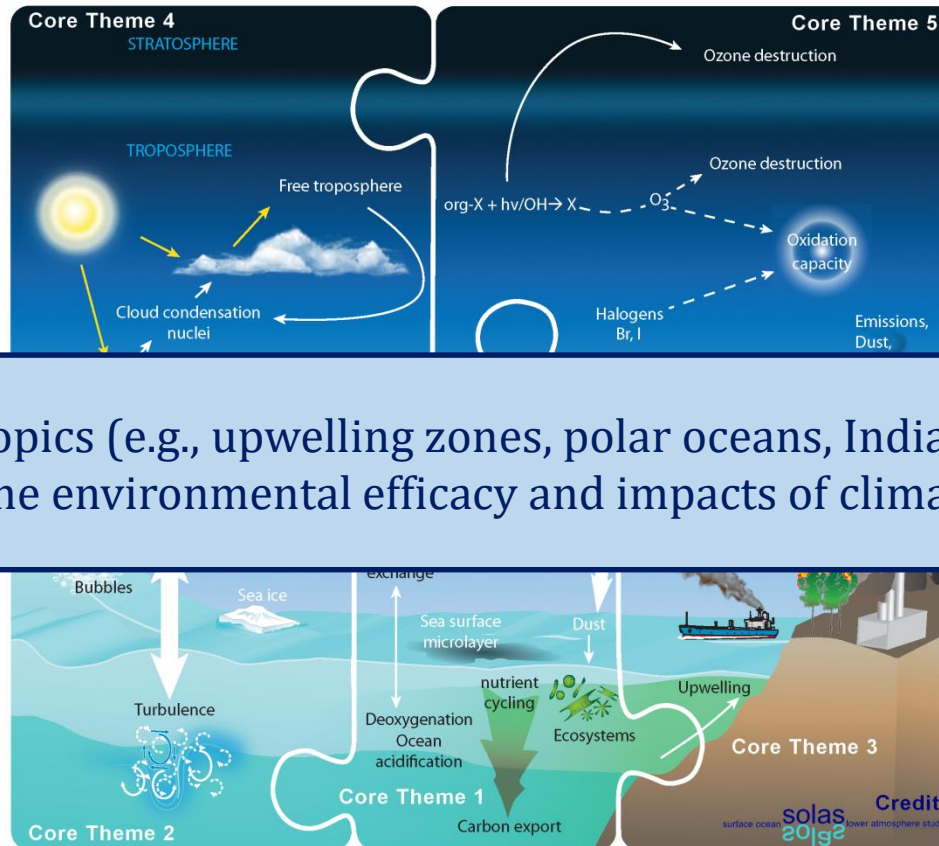


5. Ocean biogeochemical controls on atmospheric chemistry

3. Atmospheric deposition and ocean biogeochemistry

1. Greenhouse gases and the oceans

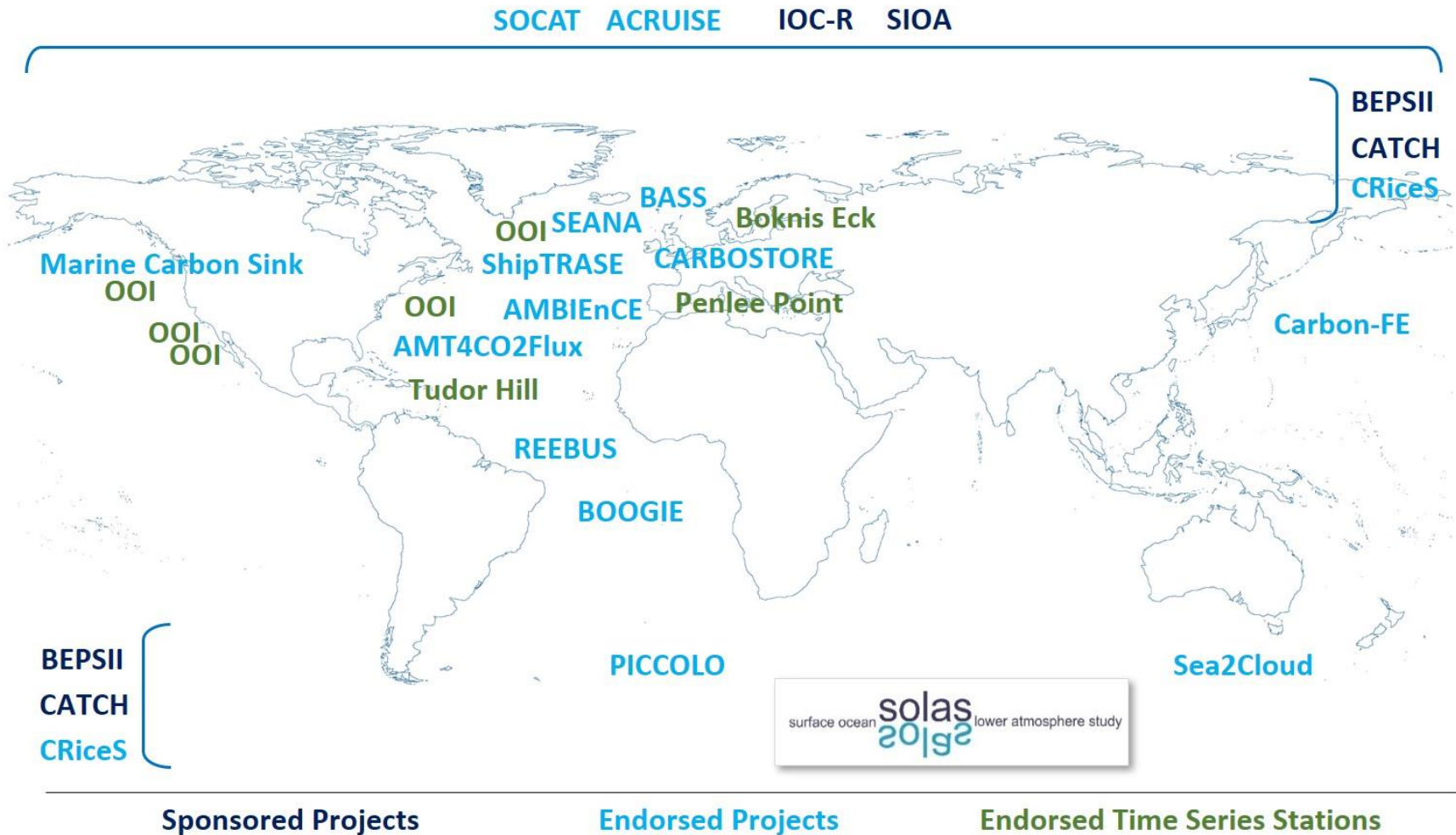
SOLAS 2015-2025: Cross-Cutting Themes



- Integrated topics (e.g., upwelling zones, polar oceans, Indian Ocean)
- Evaluating the environmental efficacy and impacts of climate intervention

→ Science & Society: impacts of ship-plume emissions on ocean biogeochemistry, blue carbon, open-ocean stewardship

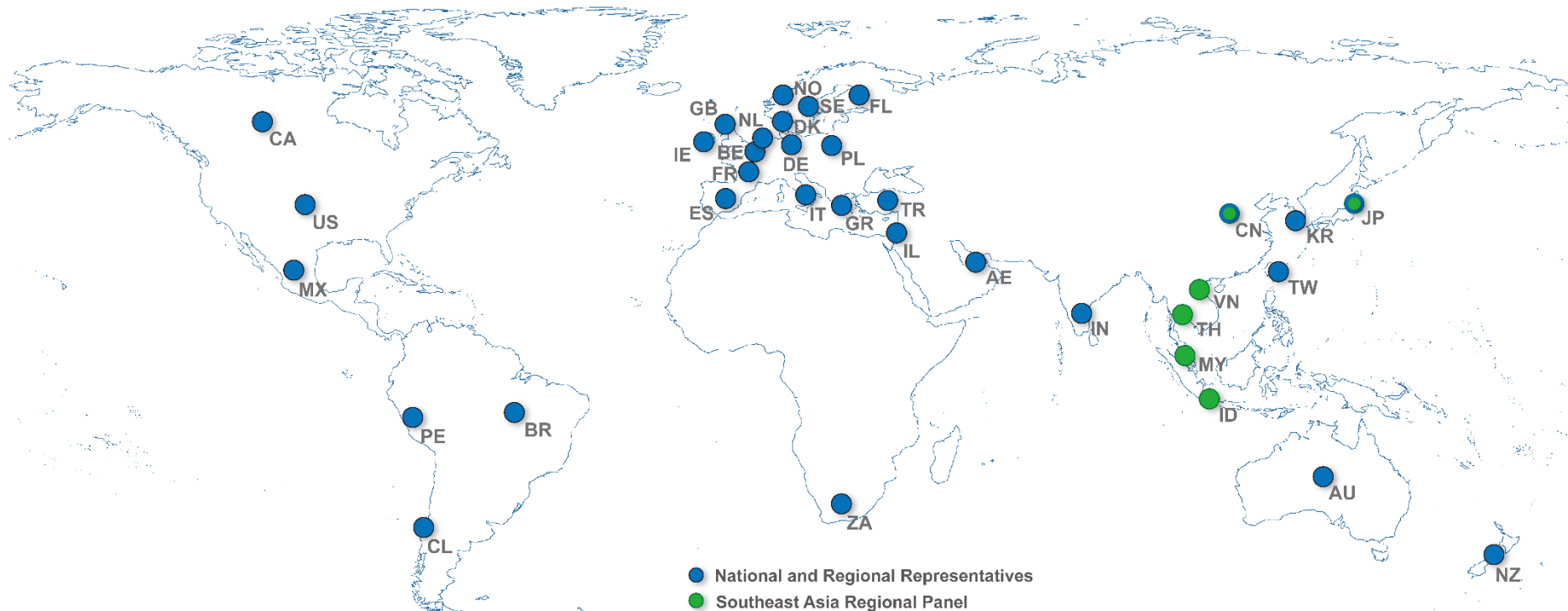
SOLAS Activities



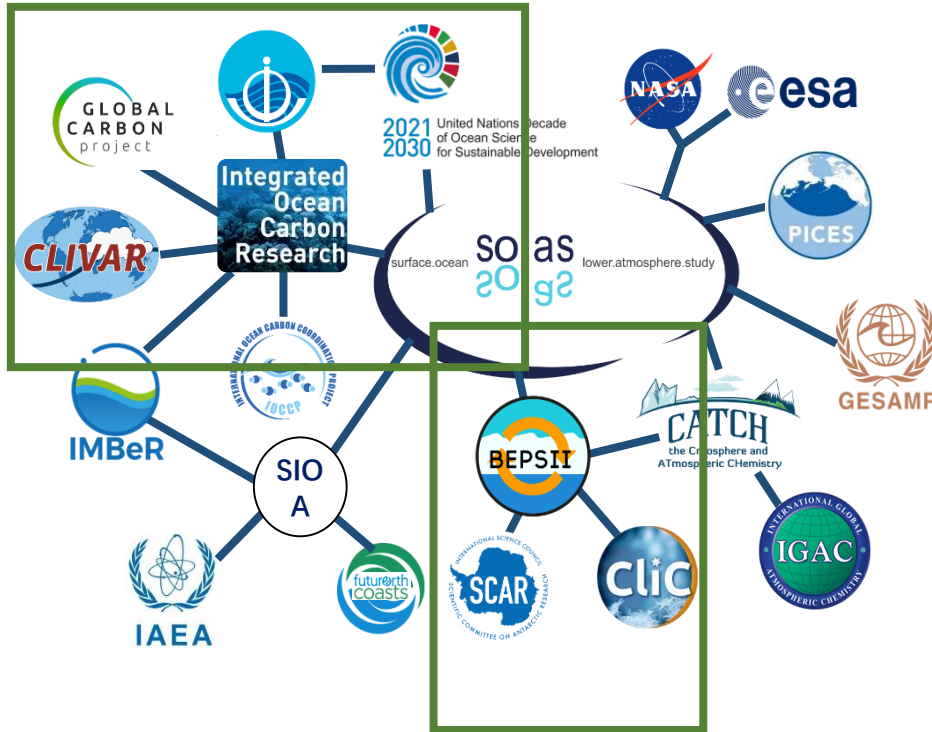
National and Regional Networks

- 32 scientific National and Regional Networks coordinated by 35 Representatives & 1 Regional Panel. Annual reports of the networks can be downloaded at

<https://www.solas-int.org/publications/national-regional-reports.html>



WCRP-SOLAS Collaborations



➤ Long-term collaboration:

- IOC-R
 - Jointly sponsored by CLIVAR.
 - IOC-R Workshop, 3-5 May 2023, Brussels, Belgium. Report available soon.
- BEPSII
 - Jointly sponsored by CliC
 - BEPSII meeting, 12-14 Mar 2023, La Jolla, California, USA. Report available soon.
- SOLAS Climate Intervention Implementation Team represented by Andrew Lenton on WCRP Climate Intervention Task Team-

➤ Events:

- Safe Landing Climates Lighthouse Activity: Discussion session on Crosswinds in safe landing climates at SOLAS OSC 2022 in Cape Town
- SOLAS ECS Committee Side Event at WCRP OSC 2023
- *ECS Committee : action group working on UN Ocean Decade proposal*

Upcoming Events

- **SOLAS Latin America workshop, Biogeochemical Research on marine Latin-American coastal zones-Towards a Marine Biogeochemical Latin-American Network**, online, 26 May 2023
- **9th SOLAS Summer School**, 5-16 Jun 2023, Mindelo, Cape Verde
- **6th SOLAS Seminar**, Jul 2023, online
- **SOLAS/CNAA session on Interconnections between marine ecosystems, aerosols, clouds and atmospheric chemistry** at ICNAA 2023, 26-30 Jun 2023, Brisbane, Australia
- **Scoping Workshop on SOLAS's future**, 25-28 Sep 2023, Xiamen, China
- **SOLAS Science and Society Workshop**, 17-19 Oct 2023, Galway, Ireland
- **GOOD – OARS Summer School 2023**, 6–12 Nov 2023, Coquimbo-La Serena, Chile
- **9th SOLAS Open Science Conference**, Goa, India, Nov 2024



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THANK YOU