

Early Career Scientist Committee

surface ocean solas 2019 lower atmosphere study



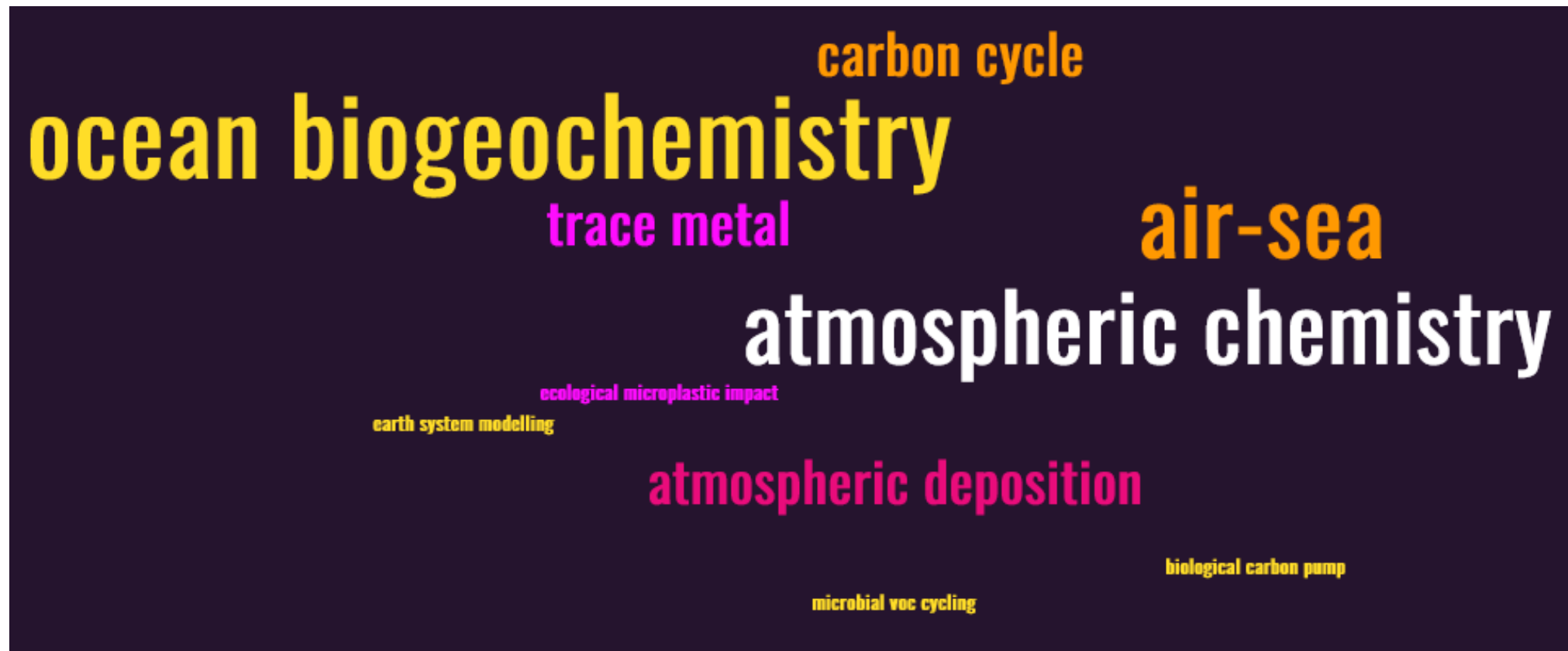
Early Career Scientist Committee

- 16 researchers (13 PhDs)
- 13 nationalities



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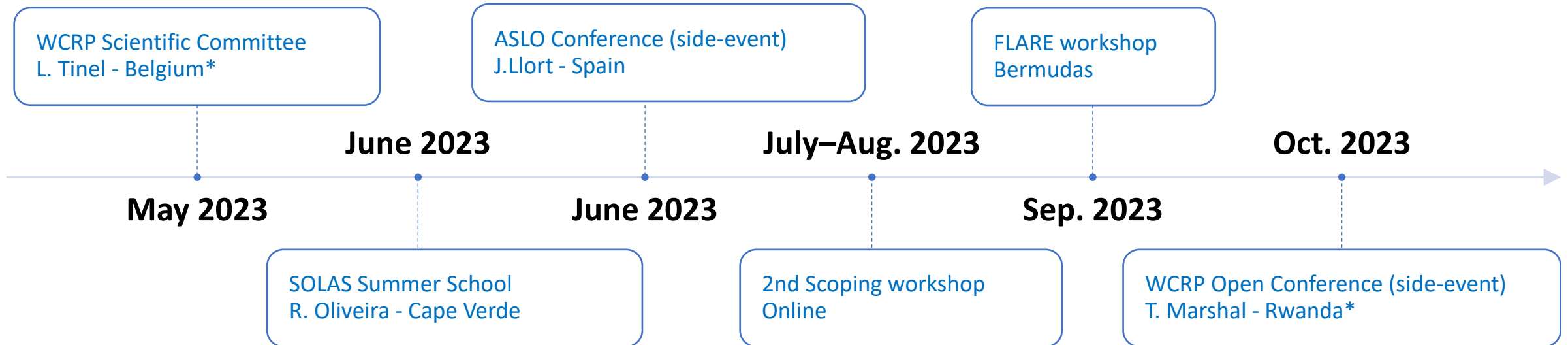
- 16 researchers (13 PhDs)
- 13 nationalities
- Wide range of expertise



Past activities

- Kick-off online meeting – February 2023 - online
- 1st Scoping workshop – April 2023 – online

Upcoming events



* Activity supported with ECSC annual funds

Shared Leadership



Joan Llort (Chair)
Spain



Andrea Baccarini
Italy @Switzerland



Julie Dinasquet
France @US



Patrick Duke
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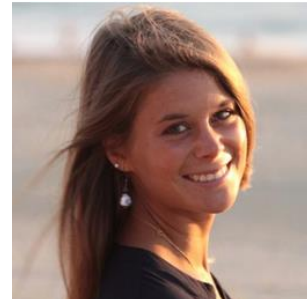
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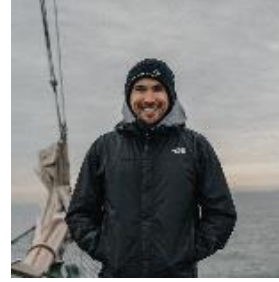
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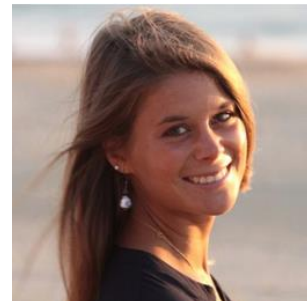
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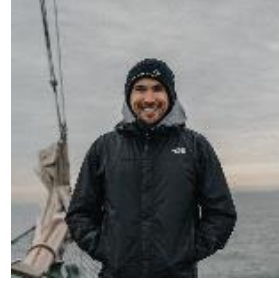
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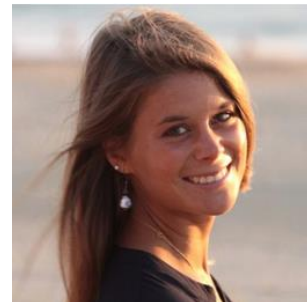
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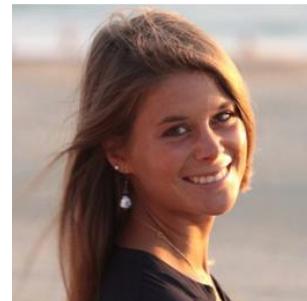
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Ocean Decade endorsement initiative

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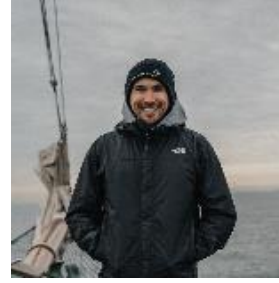
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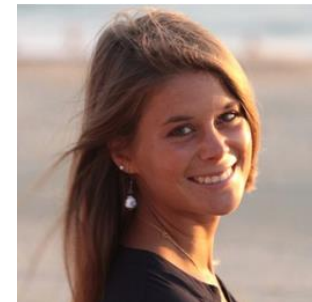
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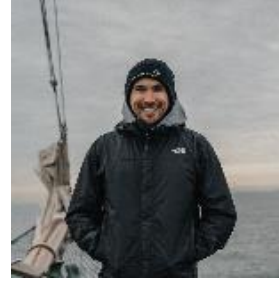
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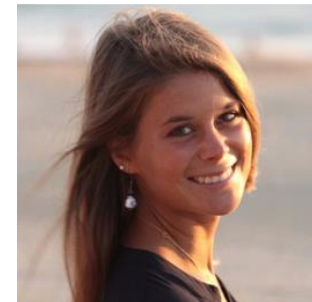
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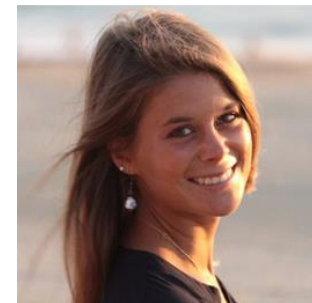
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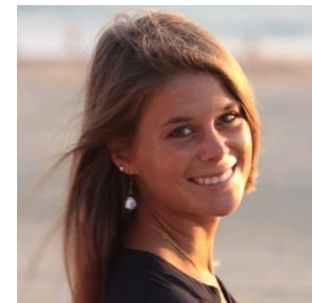
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ECSC representative at SOLAS Summer School

ECSC Scoping Workshop

Virtual platform

Three sessions/days: Science, EDI, ECSC Organisation

The image displays a virtual meeting platform interface with a light green and yellow background. It features four session cards and an instructions card:

- S1: Science**: Includes a whiteboard icon labeled "WhiteBoard S1", a red circle with "JA", and a yellow sticky note stating "This session will be active for live discussions on Wednesday 19th".
- S2: Equity & Diversity (DEI)**: Includes a whiteboard icon labeled "Whiteboard S2" and a yellow sticky note stating "This session will be active for live discussions on Thursday 20th".
- S3: SSC organization**: Includes a whiteboard icon labeled "WhiteBoard S3" and a yellow sticky note stating "This session will be active for live discussions on Friday 21th".
- Instructions**: A red card with three columns of text: "Meeting times: 9-12h GMT+1, 12-15h EST, 14-17h GMT+12", "Come to the active session box and open the WhiteBoard", and "In case of doubt please contact Julie, Karin or Joan".
- Resources**: A panel on the right with icons for "SOLAS Implementation Plan", "SOLAS ECS Shared Folder", "Committee Member details", "How to get started", and "Wonder guide". It also has two yellow sticky notes: "About SOLAS and our committee" and "If you have questions or do you want to learn more about the platform".

ECSC Scoping Workshop

Virtual platform

Three sessions/days: Science, EDI, ECSC Organisation

The image displays a virtual whiteboard interface for an ECSC Scoping Workshop. The interface is divided into several sections:

- Top Strip:** A horizontal strip showing five numbered discussion topics, each with a thumbnail of a sticky-note board:
 - 1. How does this discussion board work?
 - 2. Session 1: What should SOLAS Science focus on in the future? What is still important? What could change in the 2025-2035 plan?
 - 3. What does SOLAS need to implement this new focus? Are there new tools that need to be developed?
 - 4. What new scientific topics could be expanded within SOLAS?
 - 5. What can the ECR committee do to progress new focus?
- Whiteboard S1: Science:** Labeled "S1: Science" and "WhiteBoard S1". It features a profile icon for "JA" and a yellow sticky note: "This session will be active for live discussions on Wednesday 19th".
- Whiteboard S2:** Labeled "Whiteboard S2". It features a yellow sticky note: "This session will be active for live discussions on Thursday 20th".
- Whiteboard S3: SSC organization:** Labeled "S3: SSC organization" and "WhiteBoard S3". It features a yellow sticky note: "This session will be active for live discussions on Friday 21th".
- Resources:** A section on the right side of the S1 whiteboard containing:
 - SOLAS Implementation Plan
 - SOLAS ECS Shared Folder
 - Committee Member details
 - How to get started
 - Wonder guide
 - Two yellow sticky notes: "About SOLAS and our committee" and "If you have questions or do you want to learn more about the platform".
- Instructions:** A section at the bottom left of the S1 whiteboard with three red boxes:
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ECSC Scoping Workshop

Virtual platform

Three sessions/days: Science, EDI, ECSC Organisation

The screenshot shows a virtual whiteboard interface with a navigation bar at the top containing five sessions:

- 1 How does this discussion board work? - think outside the box
- 2 Session 1: What should SOLAS Science focus on in the future? What is still important? What could change in the 2025-2035 plan?
- 3 What does SOLAS need to implement this new focus? Are there new tools that need to be developed?
- 4 What new scientific topics could be expanded within SOLAS?
- 5 What can the ECR committee do to progress new focus?

The main content area is divided into three whiteboards:

- WhiteBoard S1:** S1: Science. Includes a yellow note: "This session will be active for five discussions on Wednesday 19th" and a red circle with "JA".
- WhiteBoard S2:** Session 1: What should SOLAS Science focus on in the future? What is still important? What could change in the 2025-2035 plan? This board contains a diagram of science themes and a list of discussion topics.
- WhiteBoard S3:** S3: SSC organization. Includes an "Instructions" section with meeting times and contact information.

Session 1: What should SOLAS Science focus on in the future?

2015-2025 Science plans: <https://www.solas-int.org/science/science-plan.html>

Core Themes:

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

Upwelling Systems, Polar Oceans, Coastal Waters

Environmental Impacts of Geoengineering

Science and Society

Cross-Cutting Themes

Discussion Topics:

- Integrating societal questions in scientific research
- Impacts of ongoing changes on fundamental biogeochemical processes: (1) effect of climate change; (2) effect of pollutions; (3) effect of human activities; (4) etc...
- Land-sea continuum: quantifying the fluxes. (focus on "emissions" as much as "deposition" in them 3)
- including microplastics pollution fate and transport and impacts
- transdisciplinarity - work outside the natural sciences to tackle societal needs and co-create knowledge
- Earth system changes under different climate scenarios
- Interaction of ocean and atmospheric chemistry (such as in theme 3 and 5)

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SOLAS Structure

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- *Integrated Topics* instead of *Cross-Cutting*. New CIRCULAR diagram/paradigm

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Creation of a *SOLAS Toolbox*

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- Endorse low-cost instruments, promote inter-calibration and links with industry
- Potential tools: Remotes Sensing, BGCArgo analysis/diagnostics, Genomics

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EDI in the SOLAS community...

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- Include recommendations for fieldwork or ask for existing protocols

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- ECSC will take care of supporting and engaging with Early Career participants

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Summer School

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- Include career day. Links with industry, policy and non-academic paths
- Students to provide anonymous feedback, including questions on EDI

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Mentorship programme

- Evaluate interest in internal mentorship programme between committees
- External mentorship programme between Summer School Alumni and ECSC members

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Outreach

- Organise outreach & communication workshops/training (ECSC working group)
- Prepare outreach material ready to use by endorsed projects (\$\$\$?)

3. ECSC organisation

General rules

- 3 years term, with +3 if chair
- 10 years after PhD (+1/+2 per child)
- Exception for the first round → all members at least 2 years (new members in 2025)
- Internal call for the chair
- 2-3 virtual meetings per year + regular working group meetings
- Transparent and two-way communication between committees
- No registration fees for ECSC members to attend SOLAS OSC

3. ECSC organisation

ECSC representation at SOLAS level

- 1-2 ECSC members involved in the SOLAS OSC organisation AND the Summer School
- ECSC member involved in Seminar Series
- All ECSC members should be included in one implementation team
- ECSC section in the newsletter

ECSC contributing to

- 3rd SOLAS Science Plan
- Designing and updating the new website
- Communication (social media through SOLAS account + newsletter)
- UN Ocean Decade proposal
- Brainstorming on outreach and citizen science

Ocean Decade
proposal

Outreach

Training
(focus on EDI)

Creation of three working groups