

# Minutes of the Follow-up Meeting of the 23<sup>rd</sup> SOLAS Scientific Steering Committee Meeting

5<sup>th</sup> December 2022, online

*Version of 2<sup>nd</sup> January 2023*

Monday 5 <sup>th</sup> December 2022 (all times in CET)	
12:00-12:05	Welcome and introduction ( <i>Cecile</i> )
12:05-13:35	Future of SOLAS ( <i>Minhan and Cecile</i> ) <ul style="list-style-type: none"> <li>• Sponsorship: SCOR/NSF/Others</li> <li>• Repackaging: e.g. with OASIS</li> <li>• 3<sup>rd</sup> Science Plan: scoping workshop in 2023</li> <li>• NSF visit in 2024</li> </ul>
13:35-14:05	Early Career Scientist Committee ( <i>Li Li</i> ) <ul style="list-style-type: none"> <li>• Selection criteria</li> <li>• Thoughts on applications</li> </ul>
14:05-14:20	Break
14:20-14:50	Modeling Initiative ( <i>Maria/Li Li</i> ) <ul style="list-style-type: none"> <li>• Task team</li> <li>• Topic and activities</li> </ul>
14:50-15:20	SOLAS at SRI2023 and WCRP OSC ( <i>Li Li</i> )
15:20-15:50	SSC meeting 2023/OSC 2024 ( <i>Jessi</i> ) <ul style="list-style-type: none"> <li>• Update on SSC meeting 2023 planning (<i>Maria</i>)</li> <li>• OSC 2024: location/date/carbon offset</li> </ul>
15:50-16:00	Farewell to out-going members and wrap up ( <i>Cecile and Minhan</i> )

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## Summary of Decisions

**Decision 1:** *The (core) of the SOLAS name will be kept.*

**Decision 2:** *Discuss with OASIS about a potential merger and invite the co-chair(s) to the SSC meeting.*

**Decision 3:** *SOLAS will conduct a restructuring and transformation process from science to solutions and involve social scientists.*

**Decision 4:** *The SSC will select the first batch of ECSC members. Li Li to provide a short list (**done**).*

**Decision 5:** *The ECSC will have a chair but not co-chairs (could have vice chair or exec. committee).*

**Decision 6:** *Maria will contact potential task team members and organise a kick-off online meeting early 2023.*

**Decision 7:** *The 2024 hybrid OSC will be held in India. Anoop, Arvind, and the IPO will be in touch to discuss further action. (**done**)*

**Decision 8:** *Marcela and the IPO will meet to discuss the 2023 Chile Workshop, the South American network, and OSC 2026. (**done**)*

**Decision 9:** *The SSC will further consider offsetting CO<sub>2</sub> for flights to SSC meeting. More companies will be researched.*

## SSC meeting participants

### SOLAS SSC members

Katye Altieri

Marcela Cornejo D'Ottone

Minhan Dai (SSC Co-chair)

Erik van Doorn

Santiago Gassó

Cecile Guieu (SSC Co-chair)

Maria Kanakidou

Arne Körtzinger

Mohd Talib Latif

Anoop Mahajan

Jun Nishioka

Jurgita Ovadnevaite

Anna Rutgersson (WCRP representative)

Guling Zhang

Excused

Andrew Lenton

### SOLAS IPO

Jessica Gier (Executive Director)

Li Li (Deputy Executive Director)

Chengcheng Gao (Project Officer)

Esther Rickert ( Project Officer)

## Future of SOLAS

**Cécile** summarised the conversation with **Patricia** (SCOR):

- SCOR recommends an innovative and competitive transformation of SOLAS to continue funding from SCOR/NSF (e.g. with BIOGEOCAPE).
- The new Science Plan should consider the UN Decade and new innovative future-oriented ideas.

- SOLAS could merge with another programme, e.g. OASIS.
- SOLAS could persuade NSF directly for funding.

**Minhan** mentioned the XMAS-VI SOLAS Town hall, 11<sup>th</sup> January 2023 and potential scoping workshops as SOLAS key events in 2023.

The following four topics were debated:

#### 1. Transformation of SOLAS

- SOLAS needs to develop innovation aspects and a big picture:
  - a. Earth system science on a global and regional scale and predictions;
  - b. Large scale and integrated ocean-atmosphere observations and experiments;
  - c. Transformation from science to solutions.
- **Arne** said the innovative approach should include new aspects. Aspects mentioned so far are not enough; e.g. citizen science or co-design between natural and non-natural science.
- **Minhan** mentioned a focus on emerging topics e.g. the climate crisis, environmental disasters, economic security, or the new climate intervention initiative.
- **Guiling** mentioned that SOLAS needs major changes and more people for a transformation.
- **Talib** emphasised that the needs of SCOR and NSF must be fully understood.
- **Jun** said that during the restructuring process, clear goals and outcomes should be formulated.
- **Anoop** asked about a SOLAS slide deck to approach funders. The IPO will provide it.

#### 2. Memberships, integration of social scientists & underrepresented regions, co-design

- **Santiago** said we could recruit new members strategically, e.g. for their NSF connections.
- The problem of how to link science to the society was discussed:
  - Social scientists could help with making the link. **Erik** stressed that social scientists don't do the communication and can't be seen as the link between science and the public.
  - **Tom** suggested starting the transformation from a social science perspective.
  - **Erik** agreed helping to re-structure/transform from a social science perspective.
  - **Marcela** agreed that social scientists should be involved, but she misses representatives from underrepresented regions.
  - **Arvind** suggested sub-teams rather than having social scientist in the existing teams.
- **Katye** suggested including ECSs in the conversation, the ECS should join the scoping working.
- **Anoop** suggested getting more people from the social sector into the ECS group.
- **Erik** suggested the Science and Society restructuring process: with one social and one natural scientist pairing (ECS included). Future topics: harmful algae blooms, plastics, ship emissions, and indigenous people. He said that a 1:1 pair will brainstorm about these topics.

#### 3. SOLAS name and merging with other programmes

- **Jun** said that SCOR/NSF might expect drastic changes; change SOLAS' name but keep activities.
- **Cécile** stressed that SOLAS will have to change completely and decide on the next 10 years.
- **Tom** said that SOLAS should not lose fundamental science when changing the structure. The fundamental science would be fitted in after restructuring by defining scientific topics/questions.
- **Jurgita** asked about the scope of the new Decade programs. **Cécile** said that e.g. GEOSCAPE is a new fast growing program, focusing on carbon export aspects.

##### Discussion on OASIS:

- **Jessi** favoured keeping SCOR/NFS sponsorship and change the name. **Li Li** agreed, we should not give our spot in SCOR to others. **Anoop** thought it is reasonable to merge with OASIS; whereas **Maria** stressed that OASIS is very different, don't change the name but content.
- **Jessi** said that SCOR suggested inviting OASIS co-chairs to the next SSC meeting to discuss how a merging could work. **Minhan** suggested talking to OASIS.

#### 4. Scoping workshop(s) in 2023

- A scoping workshop on the new SOLAS science plan and structure will be organised in 2023.

- A draft will be ready to visit NSF in spring 2024 (e.g. at AGU 2023 or OSM 2024)
- **Jessi** said that SOLAS is lacking the funding to run all meetings/workshops in-person. Additional funding is needed. **Minhan** will try to fund a workshop, he encouraged to look for funds.

**Minhan** concluded the discussion with the following suggestions:

- Keep the (core) of the SOLAS name, e.g. *iSOLAS*, *SOLAS 3.0*. *SOLAS HD* (human dimensions).
- Innovation and a strong link to the social science is key. The SSC should come up with four keywords describing the outcomes and impacts.

**Decision 1:** The (core) of the SOLAS name will be kept.

**Decision 2:** Discuss with OASIS about a potential merger and invite the co-chair(s) to the SSC meeting.

**Decision 3:** Conduct a restructuring and transformation process from science to solutions and involve social scientists.

## Early Career Scientist Committee

The IPO received 28 applications from 15 countries.

- Discussion on appointing co-chairs: The SSC stressed that the ECSC chair(s) need to join the SSC but there is no free spot. The ECSC chair could establish a vice chair or executive committee.
- A PhD should be mandatory for being an ECSC member. **Arvind** mentioned that a PhD does not guarantee that they stay in academia.
- **Marcela** mentioned the importance of motivation; e.g. providing service to SOLAS or being fed.
- The SSC will select the first batch of ECS Committee members, and the ECS should self-organized and select future members by itself. The whole Committee rotating off at the same time should be avoided.
- After the discussion, the SSC suggested 14 names to put forward. **Li Li** will compile a shortlist and send to the SSC for final approval.

**Decision 4:** The SSC will select the first batch of ECSC members. **Li Li** to provide a short list (**done**).

**Decision 5:** The ECSC will have a chair but no co-chairs (e.g. vice chair or executive committee).

## Modeling Initiative

**Maria** presented ideas on the modeling initiative, research topics, and task team members. She will talk to the Barcelona modeling group who are doing Earth System Modeling with the ocean.

- **Li Li** pointed out that observationalists, experimentalist, and modelers should come together.
- **Anoop** mentioned the SCOR working group [DMS-PRO](#), which will work on similar questions. **Minhan** mentioned the link to the UN Decade endorsed program “*Ocean to Climate Seamless Forecasting System (OSF)*”. He suggested getting people from OSF involved. **Li Li** will send the UN Decade proposal to Maria.

Task Team members: Anna, Anoop, Lichuan Wu (Uppsala University), Stelios Myriokefalitakis (National Observatory of Athens), Akinori Ito (JAMSTEC), Weilei Wang (Xiamen University). *Additional names:* Douglas Hamilton (USA), Joan Llorc (Spain), Alessandro Tagliabue (UK), Parv (UK), Laurent Bopp (FR).

- **Jessi** suggested Jennie Thomas (FR) but maybe too busy.
- **Anoop** suggested asking Lisa Miller for more suggestions on Sea Ice people.
- **Minhan** suggested appointing co-chairs to reduce the workload for Maria.
- **Maria** will contact the suggested people by email. Further, she will organise an online meeting early 2023 to kick off the initiative and bring together the task team members.

**Decision 6:** Maria will contact potential task team members and organise a kick-off online meeting early 2023.

## SOLAS Events in 2023, SRI2023, and WCRP OSC

- **Li Li** informed about the two events of SOLAS sponsors and asked for organising side events:
  - **Future Earth SRI2023:** 26-30 June 2023, hybrid in Panama City, Panama ([website](#))
  - **WCRP Open Science Conference:** 23-27 October 2023, hybrid in Kigali, Rwanda ([website](#))
- **Erik** mentioned the overlap of SRI2023 with the Summer School and Panama as a remote location. He would not join SRI again due to high fees and low attendance at the SRI2021 session.
- **Jessi** informed about her hybrid SRI2022 experience, which was better than Erik's. She pointed out that IGAC had many sessions, but unfortunately there was no SOLAS session. This was a pity because people were interested in science & society topics.
- **Minhan** encouraged the SSC to join SRI and WCRP OSC since they are SOLAS sponsors.
- **Li Li** asked the SSC to inform the IPO if someone is planning to attend one of the events.

### Science & Society Workshop

- **Erik** mentioned that the team wants to organise the workshop in October 2023.
- It should take place in Galway, Ireland.
- SOLAS will provide financial support.

### Eddy Covariance Workshop

- **Tom** said the workshop will take place in March 2023 (week before Easter) at the Imperial College London, UK, which can provide meetings rooms for 20-25 people.
- SOLAS will provide financial support.
- The workshop will be in-person but if people can't travel, basics hybrid options will be provided.

### South America Workshop

- **Marcela** will organise a hybrid SOLAS South America workshop back-to-back with the annual marine science conference in Puerto Montt, Chile, 2023.
- The final participant list for the workshop will be ready by the end of 2022, to send out workshop invitations early 2023. **Jessi** will send a list of Central/South America SSS alumni.
- The scientific focus of the workshop is on air-sea fluxes of greenhouse gases and upwelling.
- **Li Li** asked if the workshop could be used to develop a SOLAS regional panel in South America. **Marcela** said that not many people in the region are working on SOLAS topics, a few on carbon.

## SSC meeting 2023

**Maria** will host the 2023 SSC meeting: 9-11 May in Heraklion, Crete, Greece. It will be a hybrid meeting. Hotels in the city will be contacted. A Crete excursion or city tour could be organised.

### Discussion on carbon offsetting

- **Jessi** suggested using the German company [Atmosfair](#) (costs ~1400 €).
- **Tom:** offsetting might not be the right approach; prefers participating online; offsetting cannot be used to justify flights; reduce emissions by reducing in-persons meetings.
- **Marcela:** can SOLAS / the SSC can do something local in Greece instead.
- **Minhan:** offsetting is a good approach; it is a dilemma, in-person mtgs are essential for SOLAS.
- **Cécile:** SOLAS should take action and inform the community; SOLAS needs to be balanced with travel to conferences.
- **Anoop:** will be in Europe at that time and agrees that SOLAS should take action; everyone should look up a few more companies for compensation.
- **Erik:** money saved through online participation can be used to offset the flights.
- **Jessi:** other companies will be investigated and we'll put further thinking into it.

**Decision 7:** *The SSC will further consider offsetting CO<sub>2</sub> for flights to SSC meeting. More companies will be investigated.*

## Open Science Conference 2024

**Jessi** reminded on:

- SOLAS will organise hybrid OSCs in the future.
- **Katye's** idea to rotate the OSC between southern and northern hemisphere.
- The OSC venue should be in larger cities and centrally located to limit flights and emissions.
- A SSC member must be the local host to provide the on-site organisation.

**Minhan** suggested that SOLAS puts out a call for venue proposals. **Jessi** mentioned that this was done in the past but not successful as only companies replied; we could try it again.

### 2024 OSC in India

- **Anoop** and **Arvind** would be interested in organising the 2024 OSC in India.
- There are guesthouses and conference rooms available, which can reduce costs.
- They will both look into funding opportunities at their institutes and in Goa.
- **Anoop, Arvind**, and the IPO will discuss offline about ideas, questions, and a time line.

**Decision 8:** *The 2024 hybrid OSC will be held in India. Anoop, Arvind, and the IPO will be in touch to discuss further action. (done)*

### 2026 OSC in Chile

- **Marcela** will think about it and ask colleagues if they could support the LOC.
- Valparaiso is not good and safe for a location, Viña del Mar would be more suitable.
- **Marcela** wants to build a regional network in South America, which could be brought together during the OSC2026.

The **IPO** will organise a meeting to discuss about the Chile workshop, the OSC2026, and the establishment of a regional network in South America.

**Decision 9:** *Marcela and the IPO will meet to discuss the 2023 Chile Workshop, the development of a South America regional panel, and the OSC 2026. (done)*

## Farewell & Thank You

The co-chairs and IPO thanked the outgoing members **Andrew, Anna, Erik, Guiling**, and **Jun** for their dedication and contributions to SOLAS and wished them a farewell.