



Structure- Achievements and Future Plans

Sponsors:



**Dr Emilie Brévière,
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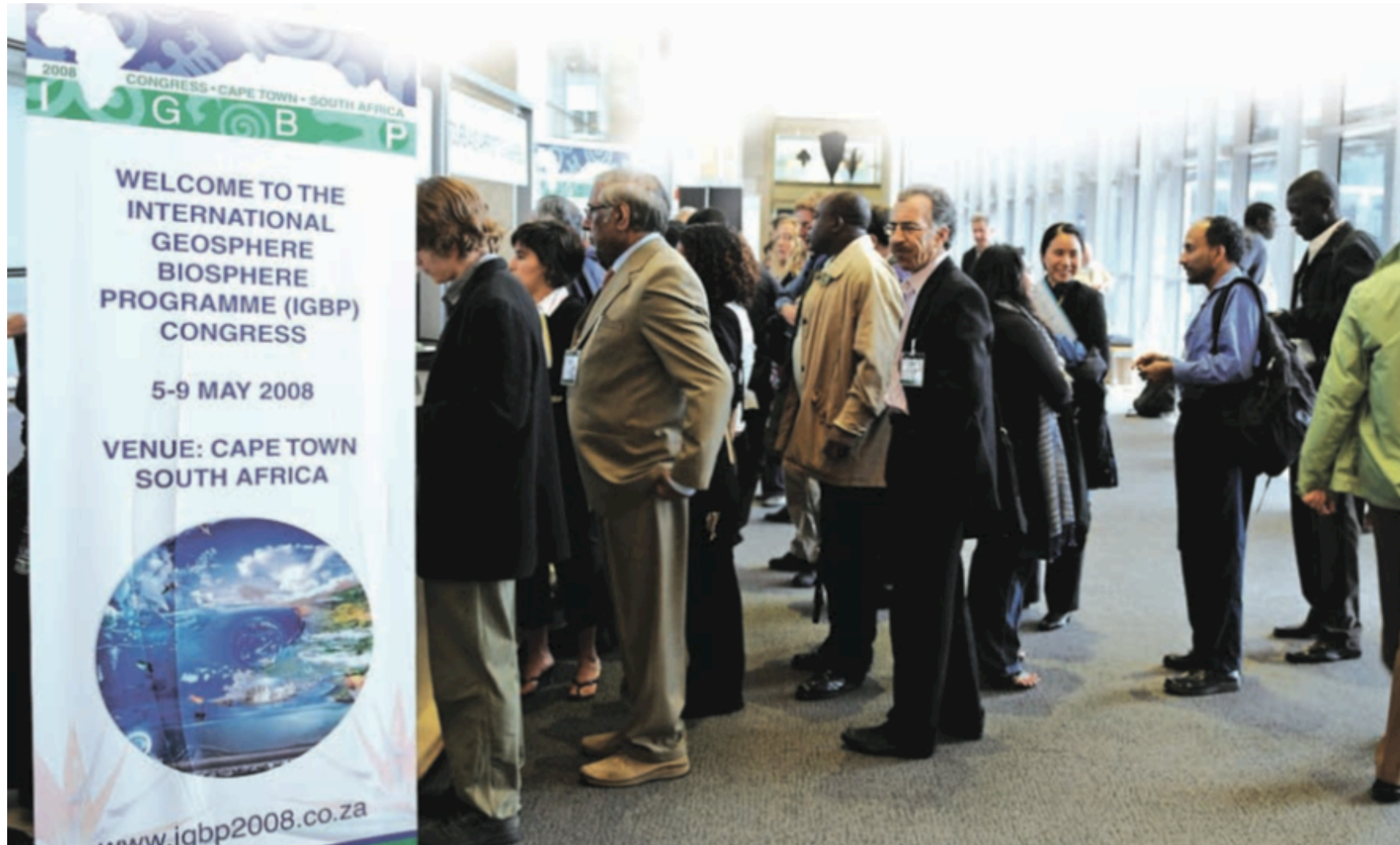
SOLAS IPO sponsor:



Global Change Framework: IGBP Network



Why journées IMBER/SOLAS France?



Why journées IMBER/SOLAS France?



SOLAS



IMBER



Outline



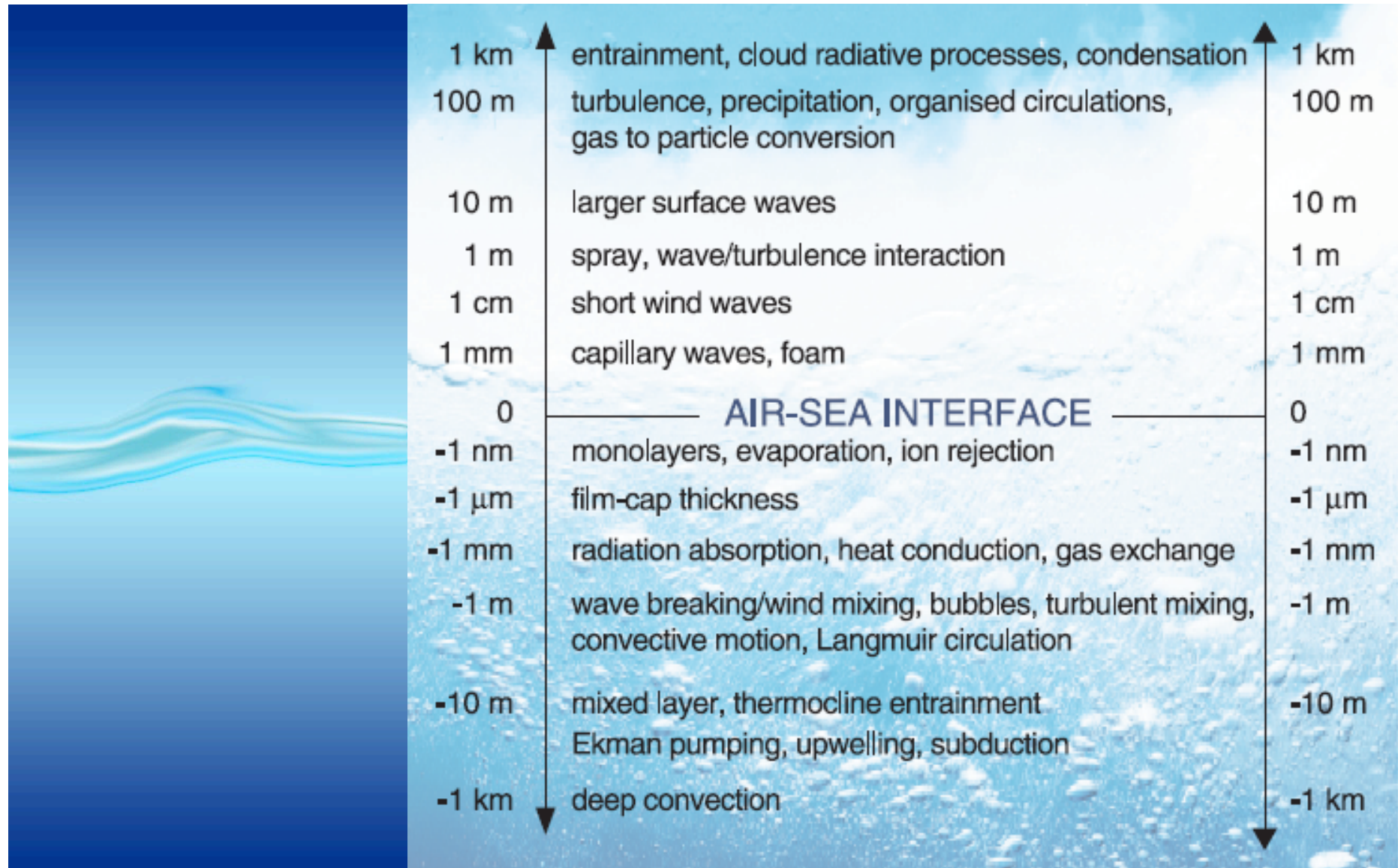
- Scientific framework and implementation plan
- Project structure
- Future events and scientific directions

SOLAS Science Goal



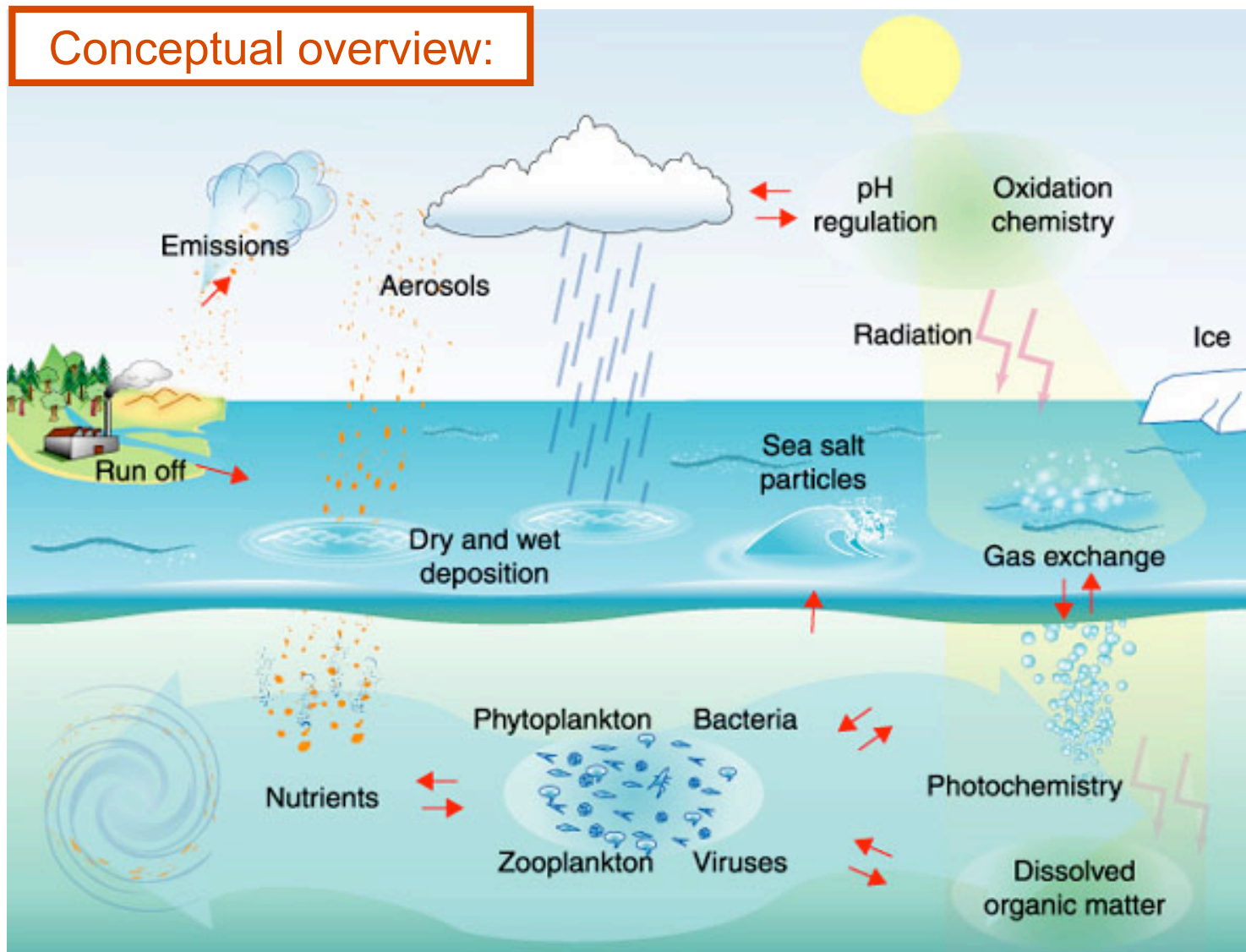
‘To achieve quantitative understanding of the **key biogeochemical-physical interactions and feedbacks between the ocean and atmosphere**, and how this coupled system affects and is affected by climate and environmental change.’

SOLAS Science Domain

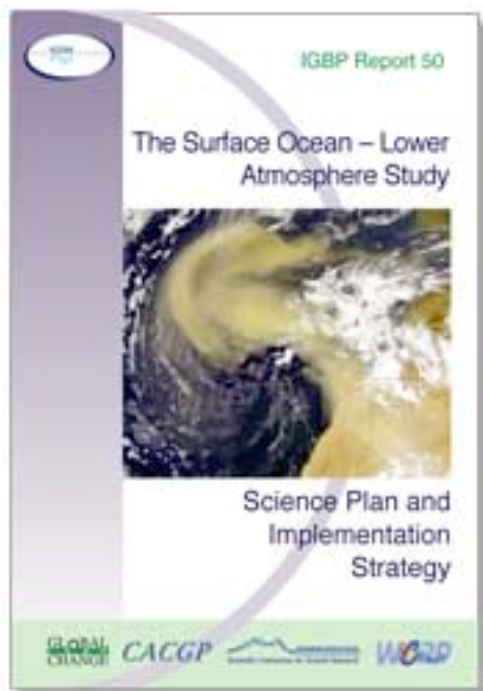


SOLAS Science Domain

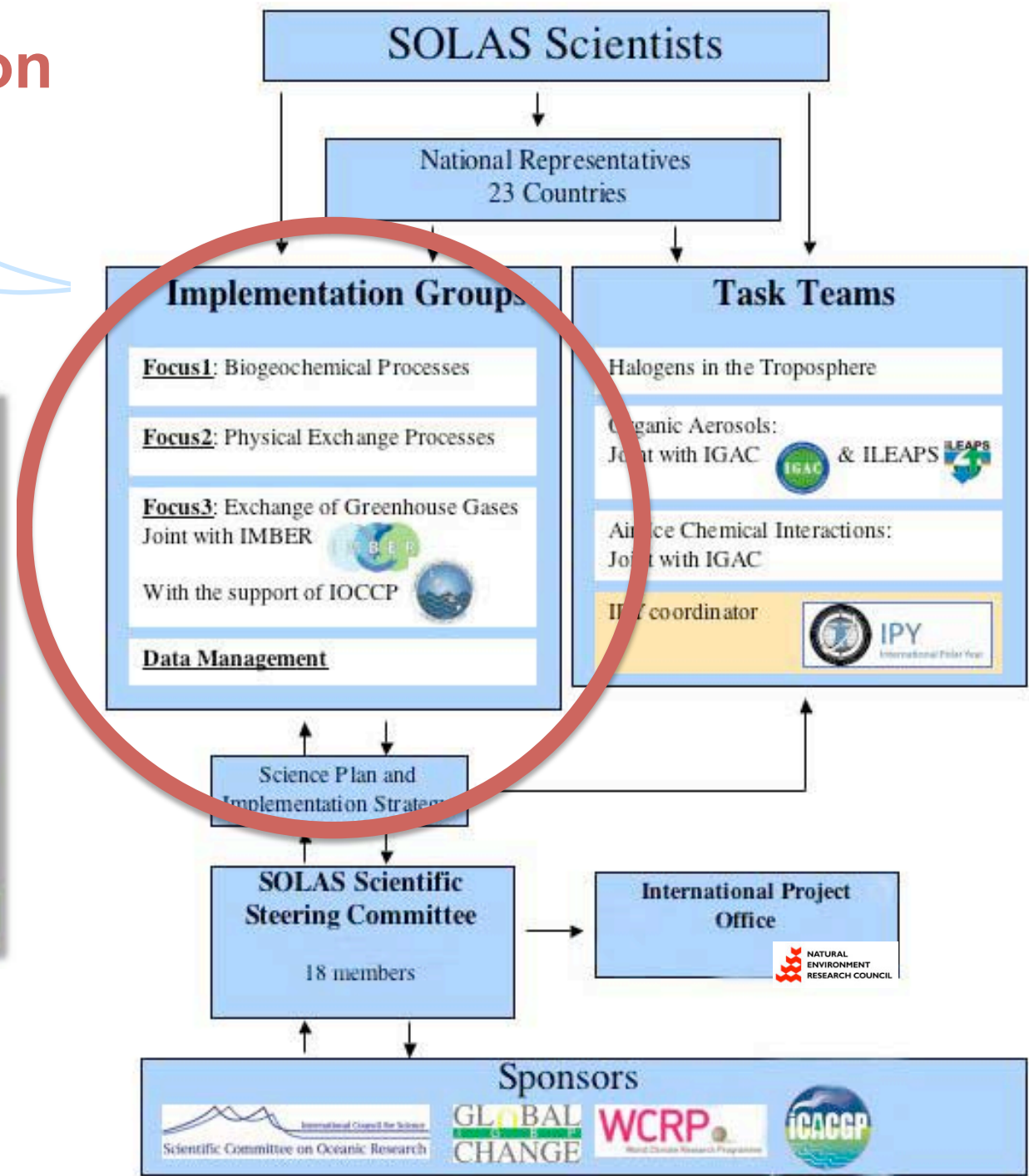
Conceptual overview:



Implementation Groups



SOLAS Science Plan published 2004.
10 year programme



Implementation Groups



Focus 1: Biogeochemical Interactions and Feedbacks
Between Ocean and Atmosphere

Focus 2: Exchange Processes at the Air-Sea Interface and the
Role of Transport and Transformation in the Atmospheric and
Oceanic Boundary Layers

Focus 3: Air-Sea Flux of CO₂ and Other Long-lived Radiatively
Active Gases

Sous-groupes du SIC:



Joint SOLAS-IMBER Carbon Group

in close collaboration with the International Ocean Carbon Coordination Project (IOCCP)



1. Surface ocean systems

Chair: Nicolas Metzl

2. Interior ocean

Chair: Niki Gruber

In progress

3. Ocean Acidification

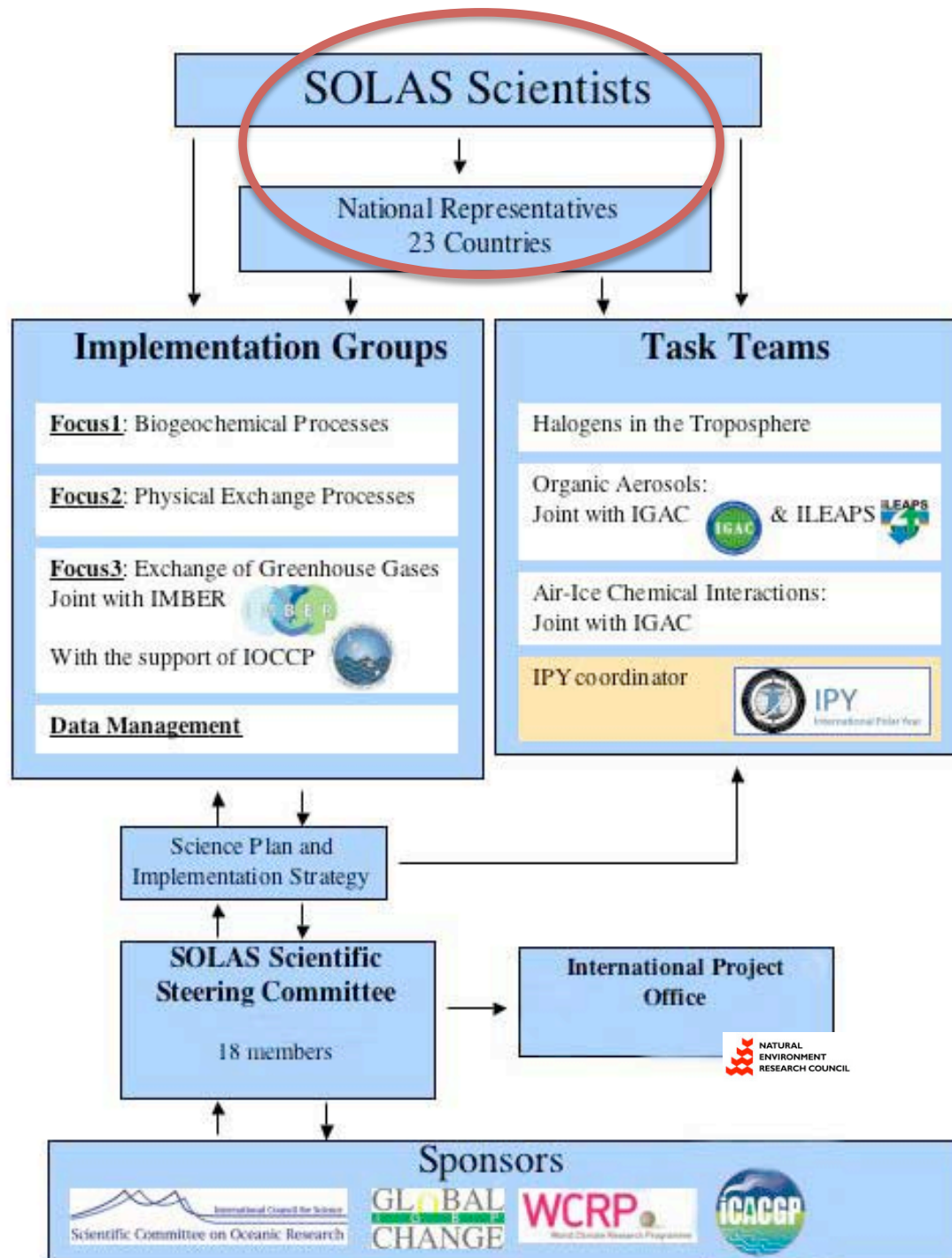
IMBER Report No. 1 / SOLAS Report

Joint SOLAS-IMBER Ocean Carbon Research

Implementation Plan

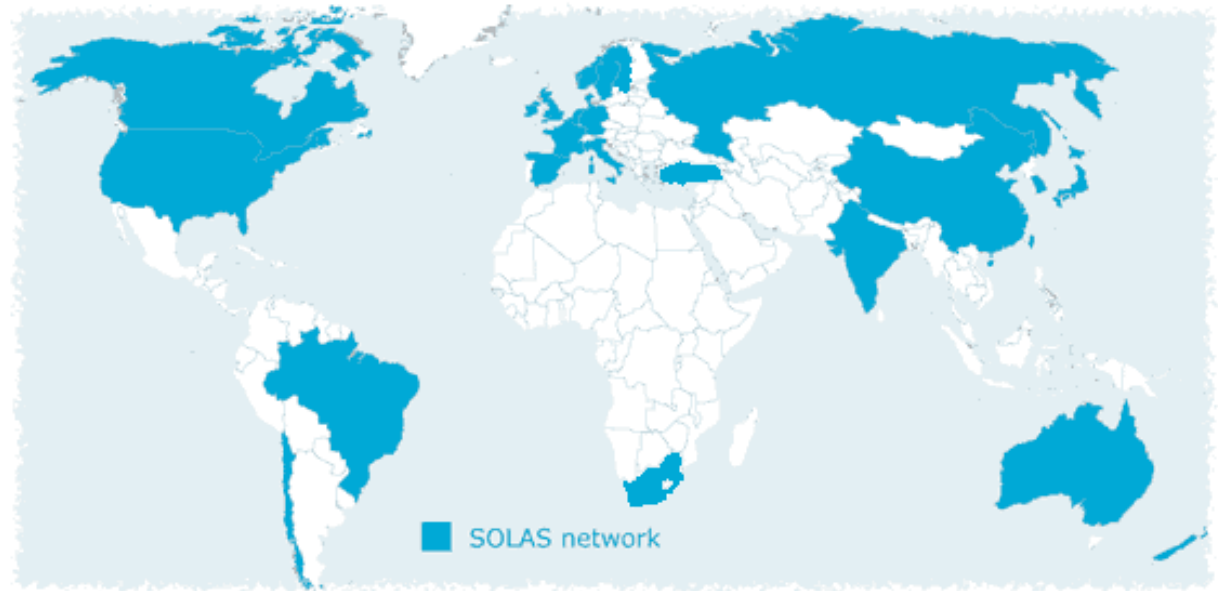
GLOBAL CHANGE IGBP
International Council for Science
Scientific Committee on Oceanic Research
CACGP WCRP

SOLAS Community



SOLAS Community- National SOLAS Networks

- 1.600 scientists in the SOLAS database
- SOLAS Network in 26 countries with national representatives and/or national coordinators

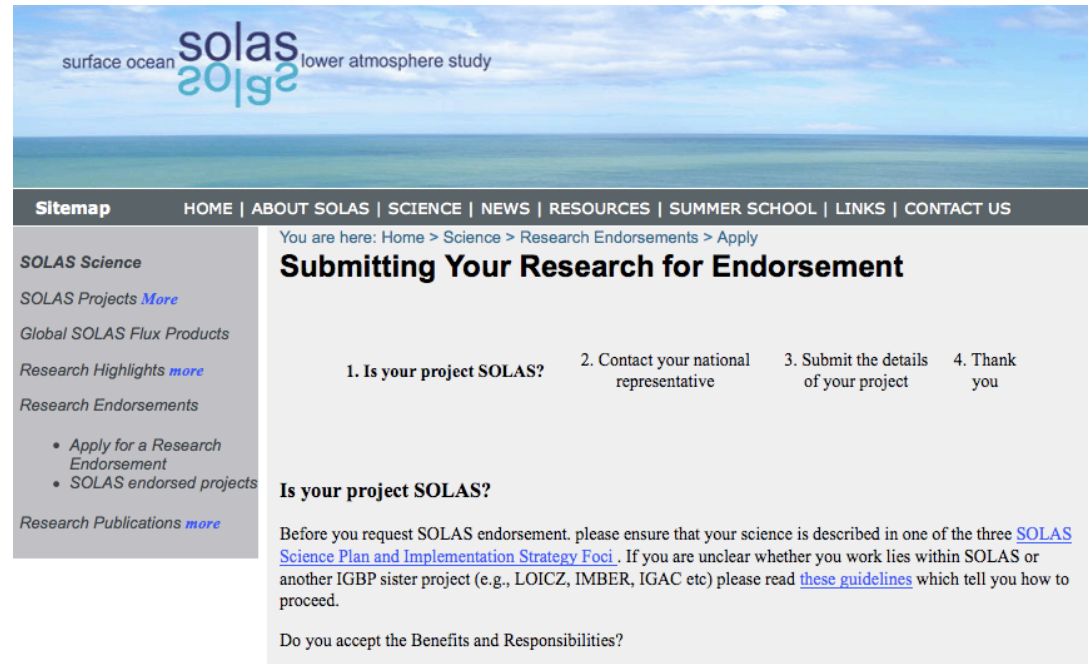


NEWS:

- SOLAS Turkey
National Contact- Baris Saglihoglu
Baris was a SSS03 attendee
- Creation of a national annual report template (Content used for knowing the current activities, reporting, for updating the website...)
PLEASE HELP US TO KNOW ABOUT YOUR ACTIVITIES

Endorsement

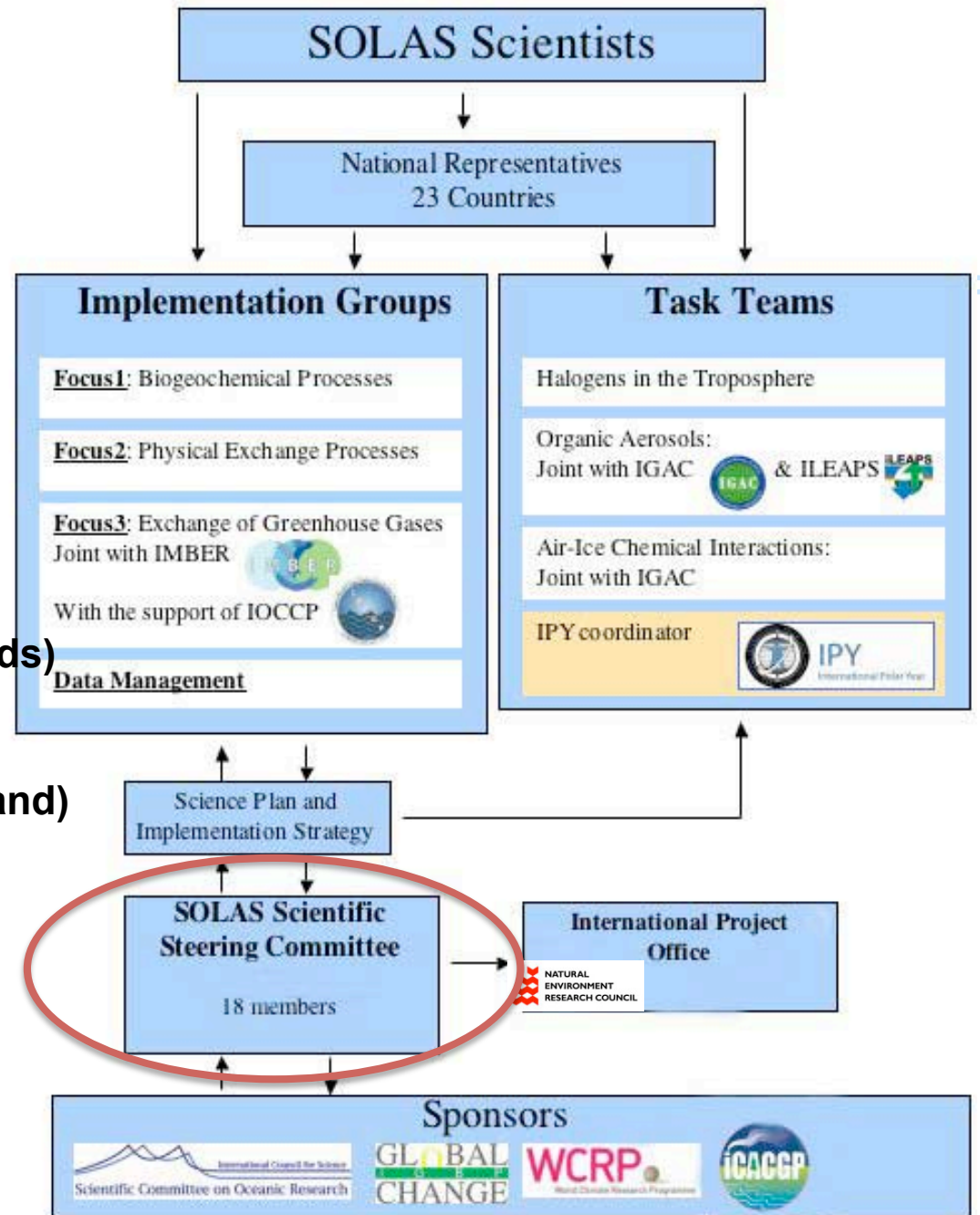
- Funded projects endorsed in 2009 were EPOCA, DUNE
- Form to fill online updated
- Endorsed projects submission form to be visible on the website



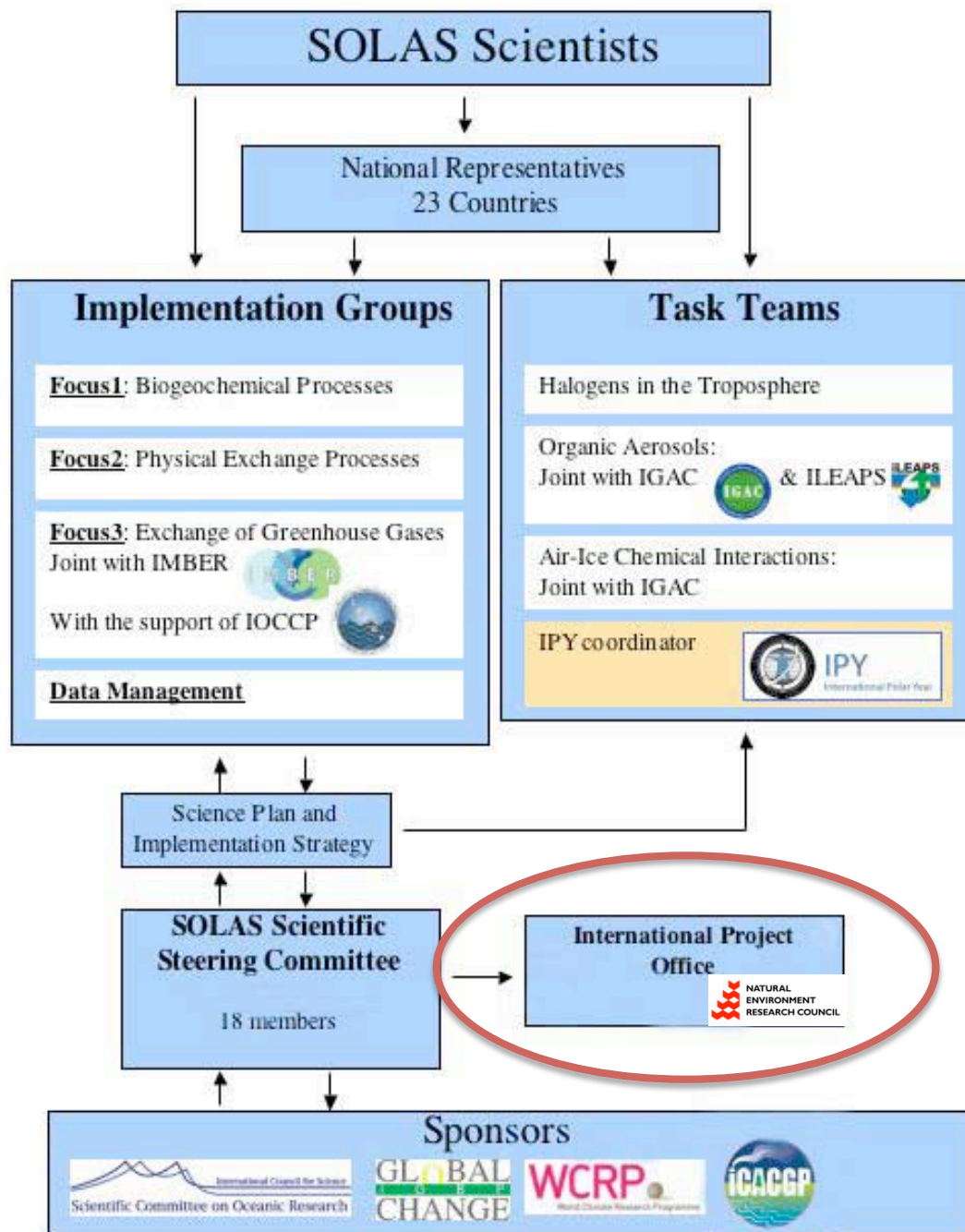
The screenshot shows the SOLAS 2019 website header with the text "surface ocean solas 2019 lower atmosphere study". Below the header is a navigation menu with "Sitemap" and "HOME | ABOUT SOLAS | SCIENCE | NEWS | RESOURCES | SUMMER SCHOOL | LINKS | CONTACT US". The main content area is titled "Submitting Your Research for Endorsement" and includes a breadcrumb trail: "You are here: Home > Science > Research Endorsements > Apply". The page lists four steps: 1. Is your project SOLAS?, 2. Contact your national representative, 3. Submit the details of your project, and 4. Thank you. Below this, there is a section titled "Is your project SOLAS?" with a paragraph of text and a question: "Do you accept the Benefits and Responsibilities?".

SOLAS Scientific Steering Committee

- | | |
|------------------------------------|----------------------|
| Doug Wallace (Chair) | (Germany) |
| Shigenobu Takeda Vice-chair | (Japan) |
| Isabel Cacho Lascorz | (Spain) |
| Veronique Garçon | (France) |
| Guang-Yu Shi | (China) |
| Nilgun Kubilay | (Turkey) |
| Jacqueline Stefels | (Netherlands) |
| Gerrit de Leeuw | (Finland) |
| Wade McGillis (WCRP rep) | (USA) |
| Cliff Law | (New Zealand) |
| Roland Von Glasow | (UK) |
| Sergey Gulev (WCRP rep) | (Russia) |
| Eric Saltzman | (USA) |
| Dave Kieber | (USA) |
| Minhan Dai (New) | (China) |
| Cecile Guieu (New) | (France) |
| Patricia Quinn (New) | (USA) |
| Rafel Simo (New) | (Spain) |



SOLAS IPO



SOLAS International Project Office

The IPO is based at University of East Anglia, Norwich, UK, sponsored by



Roles:

- Assist the SSC members in implementing the Science Plan
- Communication
- Coordination
- Provide an international basis for the SOLAS legacy



Georgia Bayliss-Brown
Project Officer
Full time



Hannah Mossman
Research Assistant
3 days per week

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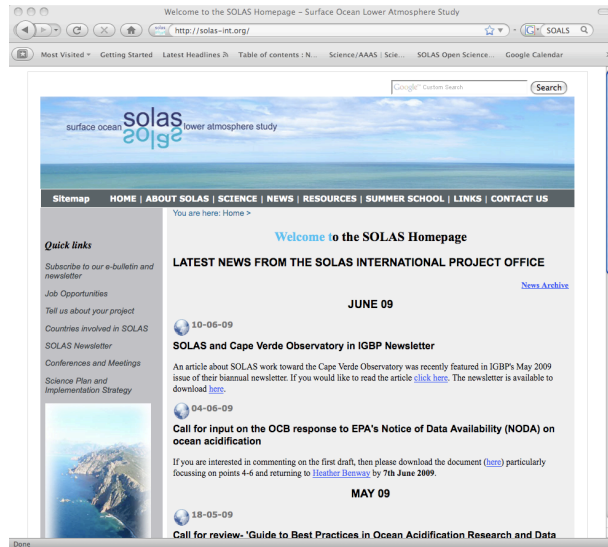
Job opportunity:

****Project officer in the
SOLAS Office****

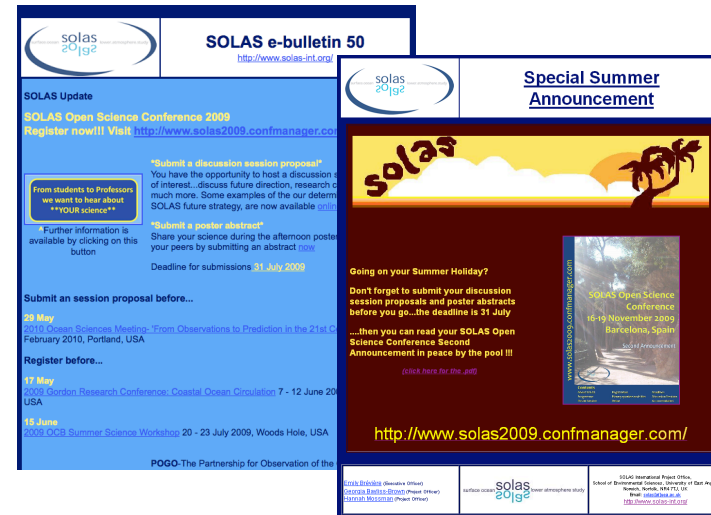
<http://www.uea.ac.uk/hr/jobs/ra>
Job reference RA588

Application deadline: 15 July

SOLAS IPO Communication Tools



*www.solas-int.org



* Monthly e-bulletin and announcement



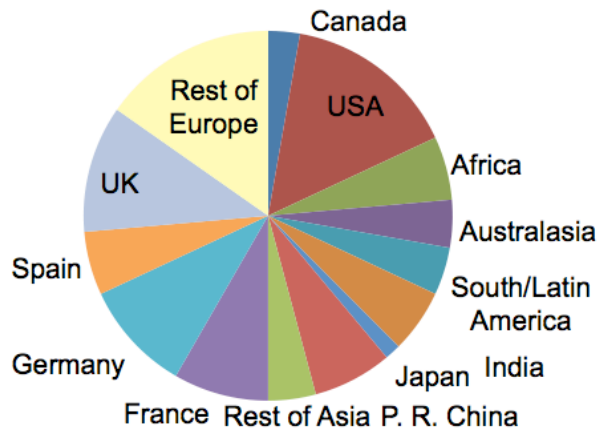
*Bi-annual Newsletters downloadable

Journées IMBER/SOLAS France, 22-23 June 09, Paris, France

SOLAS Summer School



- Already 3 successful summer schools (2003, 2005 and 2007)
- 70 students from around the world, PhD level- 15 top level lecturers



4TH INTERNATIONAL SOLAS SUMMER SCHOOL
 3RD – 15TH AUGUST 2009
 CARGÈSE, CORSICA, FRANCE

OBJECTIVE:
 TO EXPOSE GRADUATE STUDENTS AND YOUNG SCIENTISTS TO RECENT DEVELOPMENTS AND METHODOLOGIES IN THE STUDY OF BIOGEOCHEMICAL AND PHYSICAL FEEDBACKS BETWEEN THE OCEAN AND ATMOSPHERE IN A CHANGING ENVIRONMENT

FOR MORE INFORMATION VISIT:
WWW.UEA.AC.UK/ENV/SOLAS/SUMMERSCHOOL/
www.iesc.univ-corse.fr

- 2 weeks of lectures + practical workshop

Open Science Conference

YOUR CONTRIBUTION:

Parallel Discussion Sessions, which will provide an informal setting where 'hot' topics will be discussed

Poster Sessions, which will each focus on one of the three SOLAS foci.



www.solas2009.confmanager.com

SOLAS Open Science Conference

16-19 November 2009

Barcelona, Spain

Second Announcement



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Poster Session	Venue	Accommodation

DISCUSSION SESSIONS

Parallel discussion sessions are intended to provide an informal opportunity for round table discussions of hot topics, with the aim of fostering collaborations and furthering research.

There will be 15 discussion sessions – 7 on topics chosen by the community

Submit your proposal (150 words) for a discussion session on the conference website.

Don't forget to submit your abstracts before you go on summer holiday

Submission deadline:
31 July

POSTER SESSIONS

Come to Barcelona and present your SOLAS science during our three focus based poster sessions

In addition all posters will be displayed for the duration of the conference for maximum publicity

Submit your 150 word abstract on the conference website

COST Action 735: “Tools for Assessing Global Air-Sea Fluxes of Climate and Air Pollution Relevant Gases”

Aim:

“The main objective is to produce best estimates of global air-sea fluxes of compounds relevant to climate and air pollution”

~ €500k over a 5 year period to enable experts (mainly from within EU) in SOLAS-relevant research to meet, network and discuss how to tackle the task of SOLAS Project Integration.

SOLAS Project Integration Aim:

“To produce global air-sea flux (gas and aerosol) products for SOLAS-relevant compounds and particles.”

NERC-UK SOLAS funded project

Project integrator: Dr Tom Bell

Action Chair: Peter Liss



SOLAS Data Integration

Tom Bell
University of East Anglia
Norwich

Integrating data to produce SOLAS concentration and flux climatologies by Tom Bell

The exchange of gases across the air-sea interface has classically been described using

$$\text{Flux} = k \cdot \Delta C$$

According to the equation above, to properly quantify the net annual global flux of any gas across the air-sea interface (or indeed the deposition of a particle to the sea surface), it is necessary to know its concentration gradient (or ΔC). In other words, we (the scientific community) must compile our data into databases describing the global distribution of atmospheric and oceanic concentrations. This information can then be used, with the most up-to-date understanding of the transfer velocity, k (or in the case of particles, the deposition velocity), to produce best estimates of global fluxes. Such products are of use to the scientific community (both modelers and experimentalists) and can inform policy. Good examples of this already exist in the literature, in particular for CO₂ (Takahashi et al., 1997; 2002) and DMS (Kettle et al., 1999).

Over the past two years, I have been working with the SOLAS community as SOLAS Project Integrator to establish projects that will produce such global datasets and products. This section of the SOLAS newsletter will provide updates on progress, preview and highlights of the various projects currently underway or about to take place.

In this edition of the SOLAS newsletter, we focus upon ongoing work in conjunction with the SOLAS International Project Office to identify what SOLAS-related data exists and where it is archived. This metadata has been assembled and archived into an inventory and a Metadata Portal (screenshot 1). The portal contains links to information about various SOLAS-related data that have been collected over recent years. This resource is freely available to the entire community and enables the user to identify relevant datasets that include information about the actual data location, the name of the data provider and relevant click-through links (see screenshot 2 for an example).

A wide range of compound and particle types are covered (see screenshot 1), making this useful to a wide range of SOLAS research, enabling increased collaboration and adding value to past and present scientific endeavour.

This resource will continue to develop over the next few years as additional metadata are included. Even in its current state, the SOLAS Metadata Portal is an invaluable resource, in particular for communities that wish to generate a compilation of all relevant historical measurements at a global scale.

Please don't hesitate to contact me (Thomas.Bell@uea.ac.uk) if you would like to contribute to any of the datasets that are being compiled as part of this project or if you wish to find out more the SOLAS Metadata Portal.

In the next edition of the SOLAS newsletter, we will be discussing initial results from DMS-GO, a project that aims to produce new DMS climatologies from the substantially-updated DMS database.

SOLAS Mid-term strategic Planning



- Currently developing its mid-term strategic planning
- The following topics have been identified as being of crucial importance:
 - *‘Surface ocean nutrient cycling & atmospheric deposition’
 - *‘Air-sea fluxes at Eastern Boundary upwelling systems’
 - *‘Sea-ice as a habitat, reaction surface and barrier’
 - *‘Marine aerosols formation’
 - *‘Large scale experiments for hypothesis testing’
 - *‘Ship plumes’
 - *‘Oceansite transect’
- White papers are being written
- Presentation , examination and approval took place during the 9th SSC meeting end of March 09 in Washington DC.



www.solas-int.org

DEADLINES

Poster abstracts:

31 July 2009

Discussion session proposals:

31 July 2009

Early registration closes:

15 September 2009

Hotel booking:

1 October 2009



Las Ramblas, Barcelona

www.solas2009.confmanager.com

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