

Sponsors:







Bureau Int. SOLAS financé par:



Sommaire:

- Le contexte
- La structure du projet
- Ses activités (sponsors, communication...)
- Activités scientifiques au niveau national



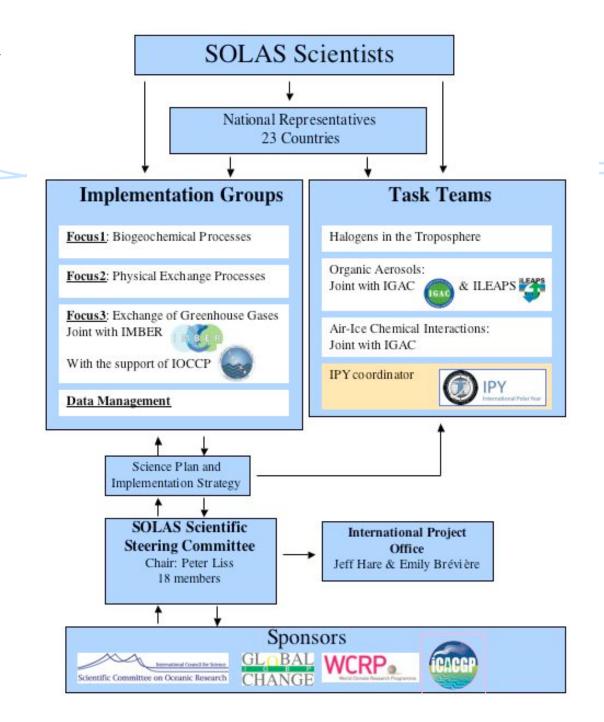
To provide scientific knowledge to improve the sustainability of the living Earth.

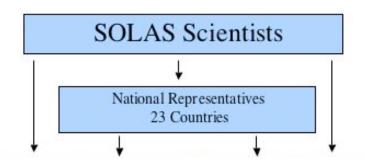


- IGBP studies the interactions between biological, chemical and physical processes and human systems
- IGBP collaborates with other programmes to develop and impart the understanding necessary to respond to global change

The IGBP Network

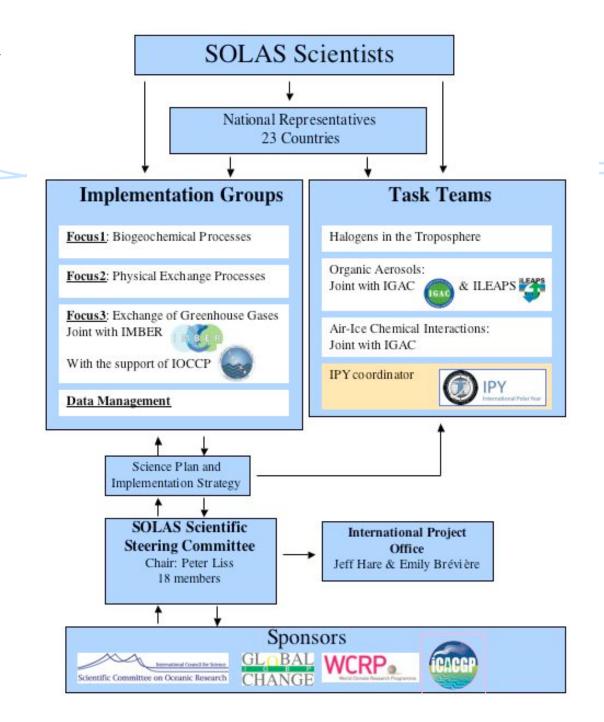






- Activités dans 25 pays
- Réseau en developpement en Afrique du Sud





International Project Office:

Jeffrey Hare Emily Brévière Georgia Bayliss- Brown Financé par le NERC

Basé à School of

Environmental Sciences, Unive



Environmental Sciences, University of East Anglia, Norwich, UK

Roles:

- Communication
- Coordination
- Provide an international basis for the SOLAS legacy

*www.solas-int.org



*Monthly e-bulletin



*Bi-annual Newsletters downloadable

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Job opportunity:

Research Associate in the SOLAS Office

Plus d'info à http://www.uea.ac.uk/hr/jobs/
Date limite de candidature: 15 Sept

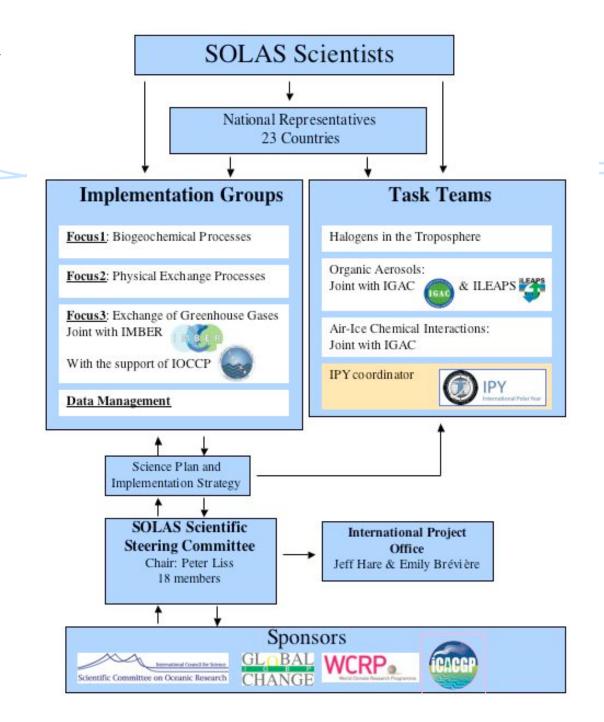
*www.solas-int.org



*Monthly e-bulletin



*Bi-annual Newsletters downloadable



Comité Scientifique de 2008:

*Doug Wallace (M, Germany; Chair)

Peter Liss (M, UK; Past Chair)

*Eric Saltzman (M, USA)

Barry Huebert (M, USA)

Véronique Garçon (F, France)

Christiane Lancelot (F, Belgium)

*Roland von Glasow (M, UK)

Gerrit DeLeeuw (M, Finland)

Guang-Yu Shi (M, China)

Isabel Cacho Lascorz (F, Spain)

Cliff Law (M, New Zealand)

*Jacqueline Stefels (F, Netherlands)

Sergey Gulev (M, Russia)

Shigenobu Takeda (M, Japan)

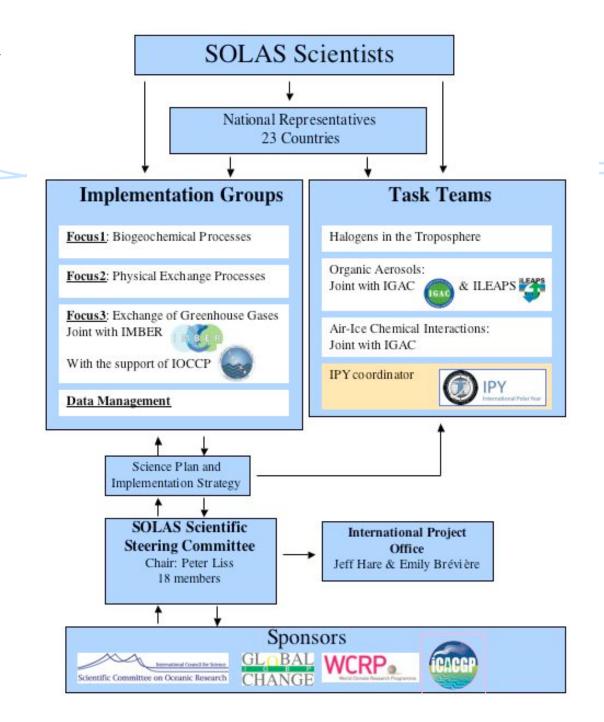
Dave Kieber (M, USA)

Truls Johannessen (M, Norway)

*Nilgun Kubilay (F, Turkey)

Wade McGillis (M, USA)

^{* =} new



Science répartie en 3 groupes:

Group 1:

Biogeochemical Processes

Co-chairs: B. Miller (USA)

M. Uematsu (Japan)

✓ Funding from the Belgian Science Policy Office for the Secretariat; Veronique Schoemann (Belgium)

Group 2:

Physical Exchange Processes

Chair: W. McGillis (USA)

✓ Funding from the Canadian Foundation for Climate and Atmospheric Sciences for the Secretariat; Daniela Turk (Canada)

Group 3:

Exchange of Greenhouse Gases

Co-chairs: T. Johannessen (Norway)

A. Koertzinger (Germany)

✓ Joint SOLAS-IMBER science



√ Seeking funding for the Secretariat

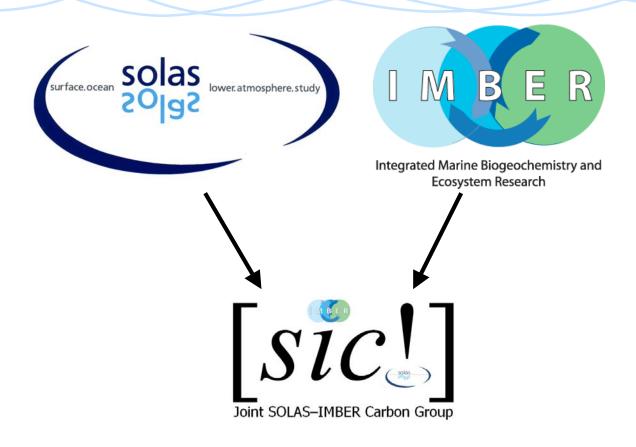
Data Management Task Team:

Biogeochemical Processes

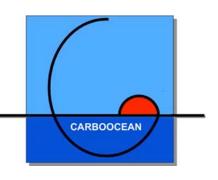
Chair: D. Wallace (Germany)

- ✓ 1st meeting in Nov 2005, Amsterdam
- ✓ Data Management Plan in development

Carbon Research:



SOLAS has also endorsed:



Groupe Carbone SOLAS/IMBER (SIC):

Arne Koertzinger (Germany), co-chair

Truls Johannessen (Norway), co-chair

Niki Gruber (Switzerland)

Nicolas Metzl (France)

Britt Stephens (USA)

Gerhard Herndl (Netherlands)

Ken Johnson (USA)

Kevin Arrigo (USA)

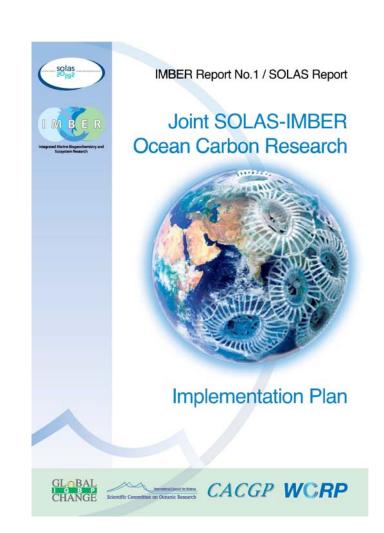
Toshi Saino (Japan)

Hermann Bange (Germany)

Dick Feely (USA)

Hartmuth Thomas (Canada)

Kitack Lee (Korea)



Sous-groupes du SIC:

1. Surface ocean

Chair: Nicolas Metzl

Surface pCO2 Variability and Vulnerabilities workshop

Paris 11-14 April 2007

Rapport disponible å http://www.ioccp.org/









2. Interior ocean

Chair: Niki Gruber

Friends of ARGO Task Team - white paper to promote oxygen sensors on floats

http://www.ioc.unesco.org/ioccp/docs/o2_argo_whitepaper_15feb07_r.pdf

3. Carbon cycle climate sensitivities and feedbacks

Chair: Kitack Lee

Mesocosm studies, guidelines and protocols

1er workshop sur la comparaison de modèles océaniques de DMS:



- 4-8 December 2006, Brussels, Belgium
- 20 scientists, both modelers and experimentalists, who succeeded to:
- (1) investigate the different DMS model simulations performed before the workshop
- (2) conduct a first comprehensive synthesis. This first CODiM exercise included two complementary initiatives that were jointly handled:
 - * a 1D initiative which aimed to apply and compare different 1D DMS-ecosystem models at 3 different identified ocean sites
 - * a 3D initiative which aimed to compare global mechanisticallybased DMS models against global data sets

Impact de l'azote anthropique sur l'océan:

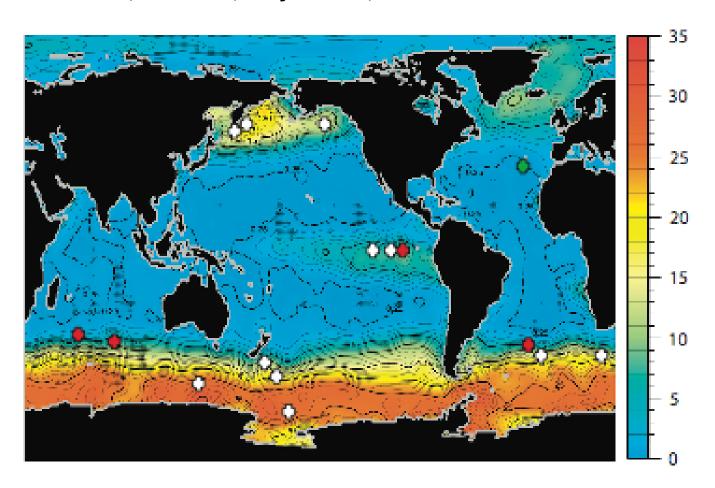


- A SCOR/ International Nitrogen Initiative workshop
- 16-20 Nov 2006, Norwich, UK
- 30 scientists with very diverse yet complementary expertise

Cycle global du fer (2003-2005):

a fast track initiative of IGBP and SCOR

Mesoscale Iron Enrichment Experiments 1993-2005: Synthesis and Future Directions, *Science*, Boyd *et al.*, 2007



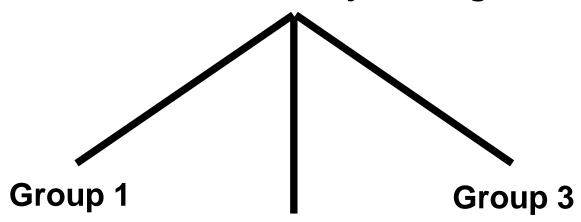
Position du comité scientifique sur la fertilisation oceanique à grande echelle:

"Large-scale fertilisation of the ocean is being actively promoted by various commercial organisations as a strategy to reduce atmospheric CO2 levels. However the current scientific evidence indicates that this will not significantly increase carbon transfer into the deep ocean or lower atmospheric CO2. Furthermore there may be negative impacts of iron fertilization including dissolved oxygen depletion, altered trace gas emissions that affect climate and air quality, changes in biodiversity, and decreased productivity in other oceanic regions. It is then critical and essential that robust and independent scientific verification is undertaken before large-scale fertilisation is considered. Given our present lack of knowledge, the judgement of the SOLAS SSC is that ocean fertilisation will be ineffective and potentially deleterious, and should not be used as a strategy for offsetting CO2 emissions."

COST Action 735:

SOLAS is leading an EU effort on creation of air-sea fluxes ~ €500k for a European network from "COST"

SOLAS and **COST** Project Integration



DMS

Organohalogens

Alkyl Nitrates

Isoprene

Methanol

Ammonia

Aerosol / dust particles

Group 2

Gas Transfer

Velocity (k)

Dry / wet

deposition velocity

Carbon Dioxide Methane

Nitrous Oxide



SOLAS Open Science Conference:



厦门欢迎您

www.solas-int.org Registration open in May

Scientific Organising Committee:

Jill Cainey, Australia Minhan Dai, China Shizuo Feng, China Véronique Garçon, France David Ho, USA Caroline Leck, Sweden Maurice Levasseur, Canada Peter Liss, UK Patricia Matrai, USA Uli Platt, Germany Guang-Yu Shi (chair), China Mitsuo Uematsu, Japan Osvaldo Ulloa, Chile

Photo courtesy of J. Rebeyrolle

225 participantsfrom 30 countries220 posters20 plenary talks11 discussion sessions

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Photo courtesy of J. Rebeyrolle





SOLAS Open Science Conference:





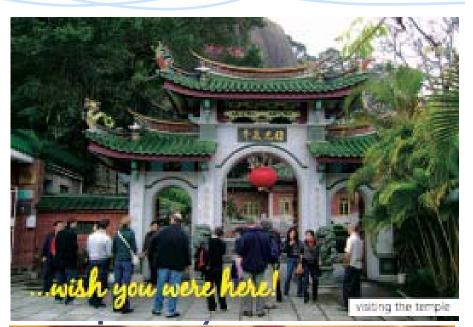
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Photo courtesy of J. Rebeyrolle





Ecoles d'été SOLAS:



SOLAS-Canada:



Ended: April 2007

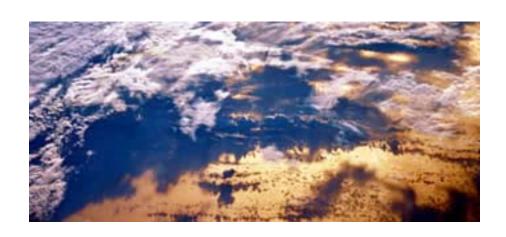
NEW: CANADIAN ARCTIC IPY project

Duration: 4 years

Fund allocated: \$450k Canadian

Cruise planned in sept-oct 07

SOLAS-UK:Measuring, monitoring and modelling in the North Atlantic:



Coordinator: Phil Williamson

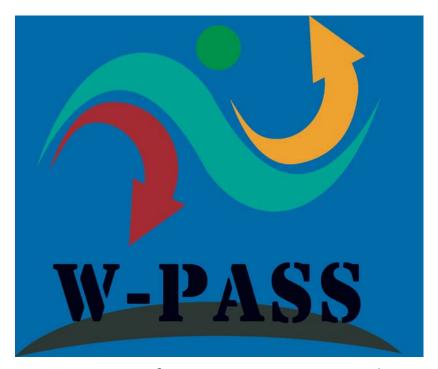
Fund allocated: \$20 million over 5 years

(24 sub-projects, 15 Institutions)

4 cruises in 2007, plus 2 in 2008

End in 2009-2010

SOLAS-Japan:W-Pass



Western Pacific Air-Sea interaction Study

Coordinator: Mitsuo Uematsu

Started: June 2006

Duration: 4 years

Fund allocated: \$10 million

First meeting in March 2007

10 cruises the first year

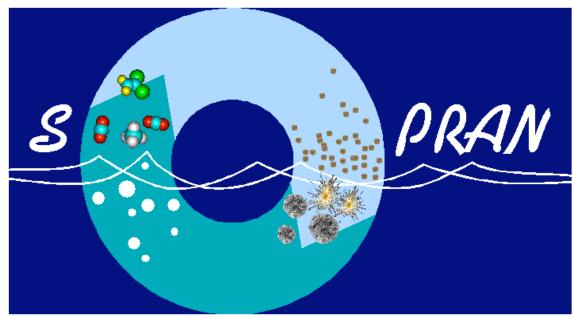
W-PASS (Western Pacific Air-Sea interaction Study)



Objectives

- 1) Quantify the transport of natural and anthropogenic materials from the Asian continent to the western Pacific which contributes to primary production in the marginal and remote regions.
- 2) Determine the response of marine ecological systems to changes in atmospheric composition over the western Pacific.
- 3) Investigate the production and emissions of marine biogenic gases that might lead to changes in atmospheric composition, especially in subtropical and subarctic regions of the western Pacific.
- 4) Evaluate the contribution of marine biogenic gases to global climate change.
- 5) Provide basic knowledge of the interaction between global climate change, marine resources, and oceanic processes to policy makers.

SOLAS-Germany:SOPRAN



Surface Ocean Processes in the Anthropocene

Coordinator: Douglas Wallace, IFM-GEOMAR, Kiel

Proposal submitted: January 2006 Proposed start: January 2007

Requested funding: EU 6.5 million over 3 years (12 Institutions, 43 Investigators, 23 sub-projects)

4 themes principaux de SOPRAN

Theme 1: The oceanic response to atmospheric dust

Theme 2: Effect of high CO₂ on marine ecosystems and sea-to-air gas fluxes

Theme 3: Production / emission of radiatively and chemically active gases in the Tropical Oceans

Theme 4: Inter-Phase Transfer at the Sea Surface



www.solas-int.org