



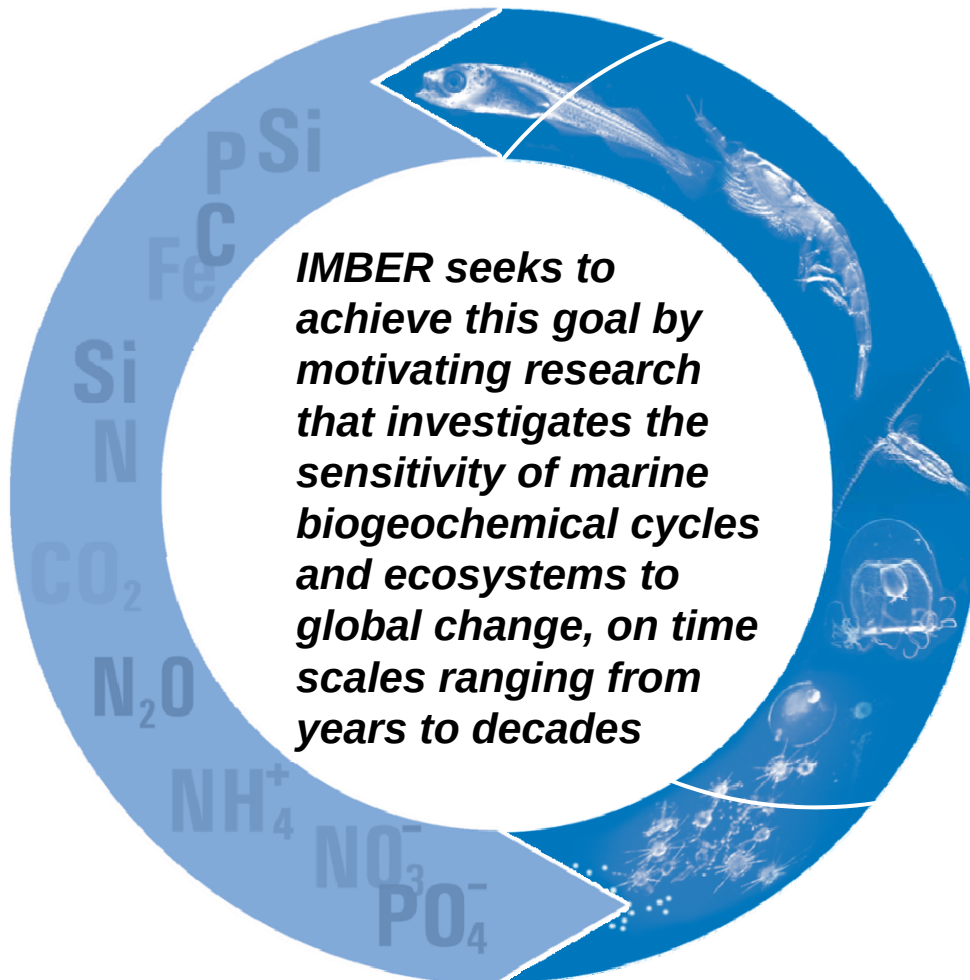
Integrated **M**arine **B**iogeochemistry and **E**cosystem **R**esearch

With the overarching goal "...to provide a comprehensive understanding of, and accurate predictive capacity for, **ocean responses to accelerating global change** and the **consequent effects on the Earth System and human society**"



IMBER RESEARCH FOCUS

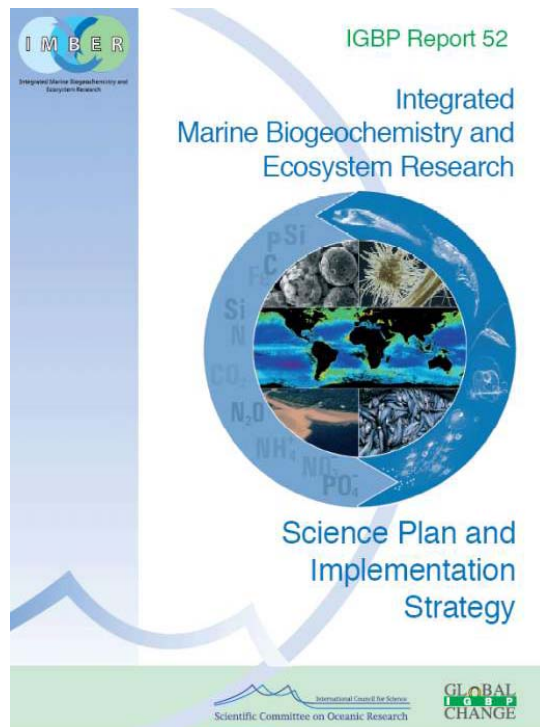
FOUR RESEARCH THEMES



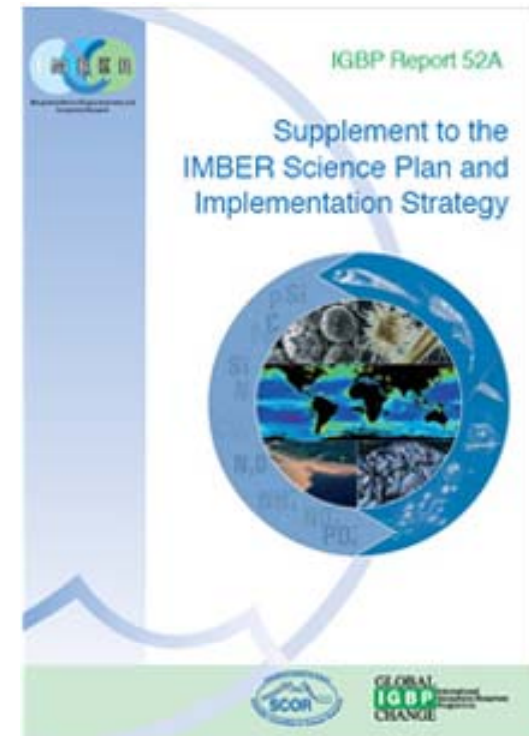
- Interactions between biogeochemical cycles and marine food webs
- Sensitivity of biogeochemical cycles and marine food webs to global change
- Feedbacks to the Earth System, e.g., how will marine food web responses impact global change?
- Human impacts of global change and responses of society



IMBER Science Plan and Implementation Strategy SPIS (2005)



TTT Report and Supplement to the SPIS (2010)



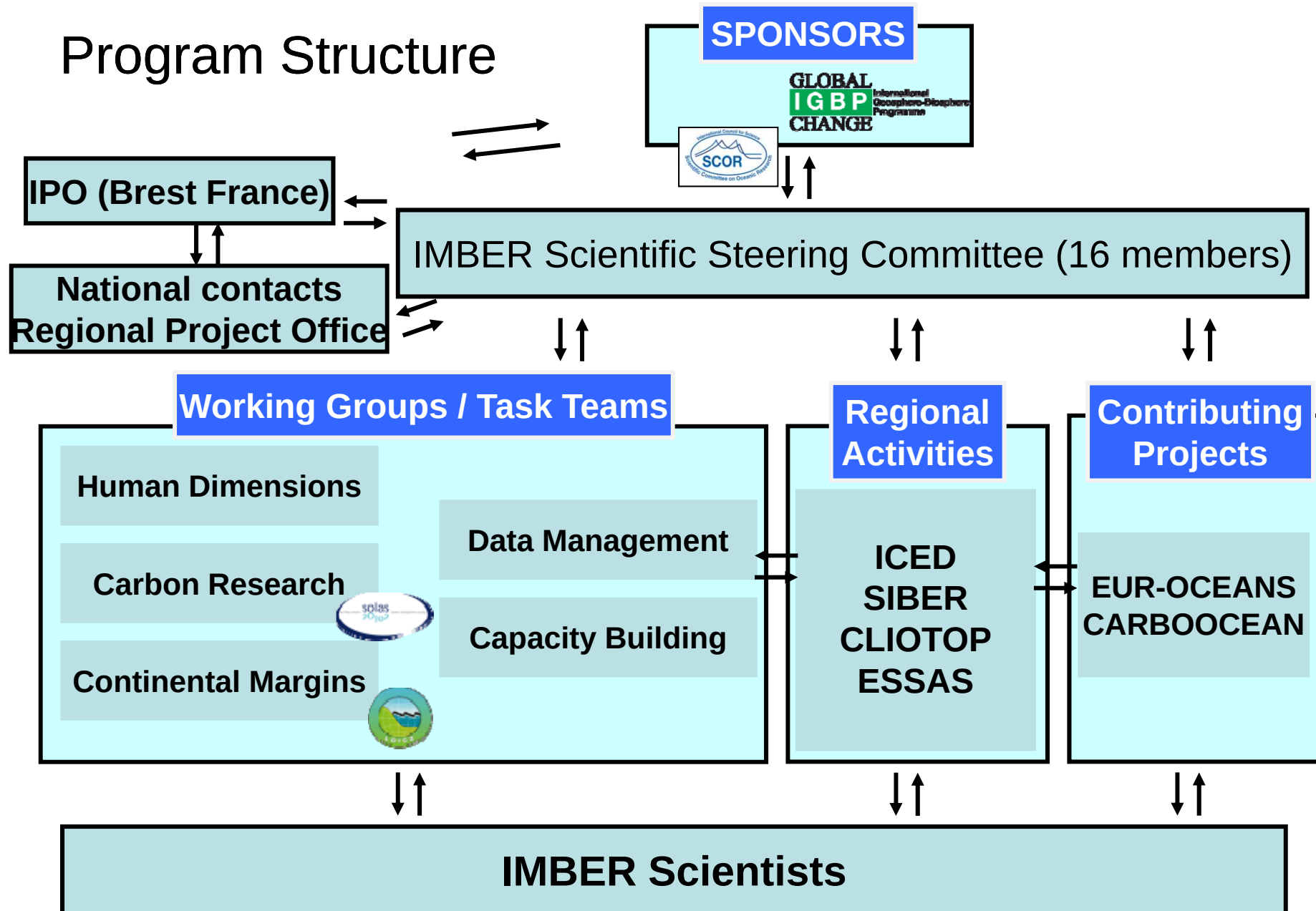
→ Refines the SPIS - next five years

www.IMBER.info/SPIS.html





Program Structure





Four IMBER Regional Programmes

ESSAS: Ecosystem Studies of Sub-Arctic Seas (from GLOBEC)

To understand how climate change will affect the marine ecosystems of the Sub-Arctic Seas and their sustainability.

Leaders: Ken Drinkwater and George Hunt



CLIOTOP: CLimate Impacts on Oceanic TOP Predators (from GLOBEC)

To study oceanic top predators within their ecosystems using a worldwide comparative approach.

Leaders: Oliver Maury and Patrick Lehodey





ICED: Integrating Climate and Ecosystem Dynamics in the Southern Ocean (GLOBEC/IMBER)

To better understand climate interactions in the Southern Ocean, the implications for ecosystem dynamics, the impacts on biogeochemical cycles, and the development of sustainable management procedures.

Leader: Eugene Murphy



SIBER: Sustained Indian Ocean Biogeochemistry and Ecosystem Research (IMBER/IOGOOS)

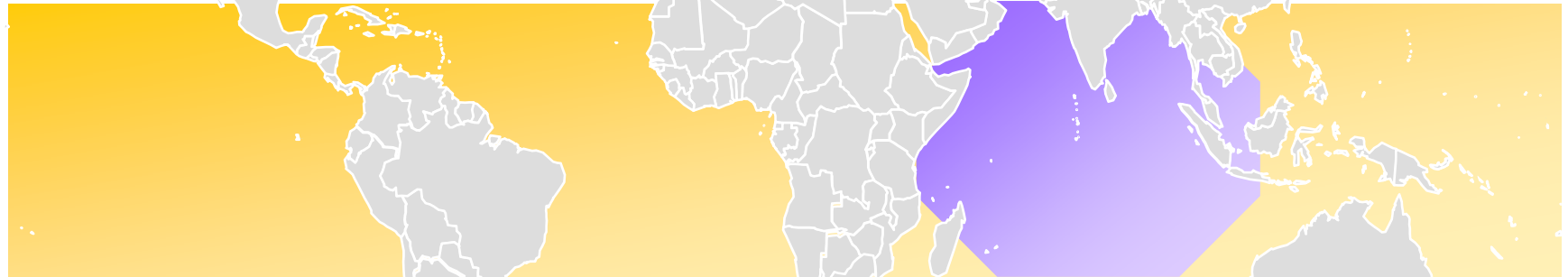
To improve our understanding of the role of the Indian Ocean in global biogeochemical cycles and the interaction between these cycles and marine ecosystem dynamics in order to predict the impacts of climate change, eutrophication and harvesting.

Leaders: Raleigh Hood and Wajih Naqvi



IMBER Regional Programmes

ESSAS



CLIOTOP

SIBER

ICED



Upcoming IMBER events

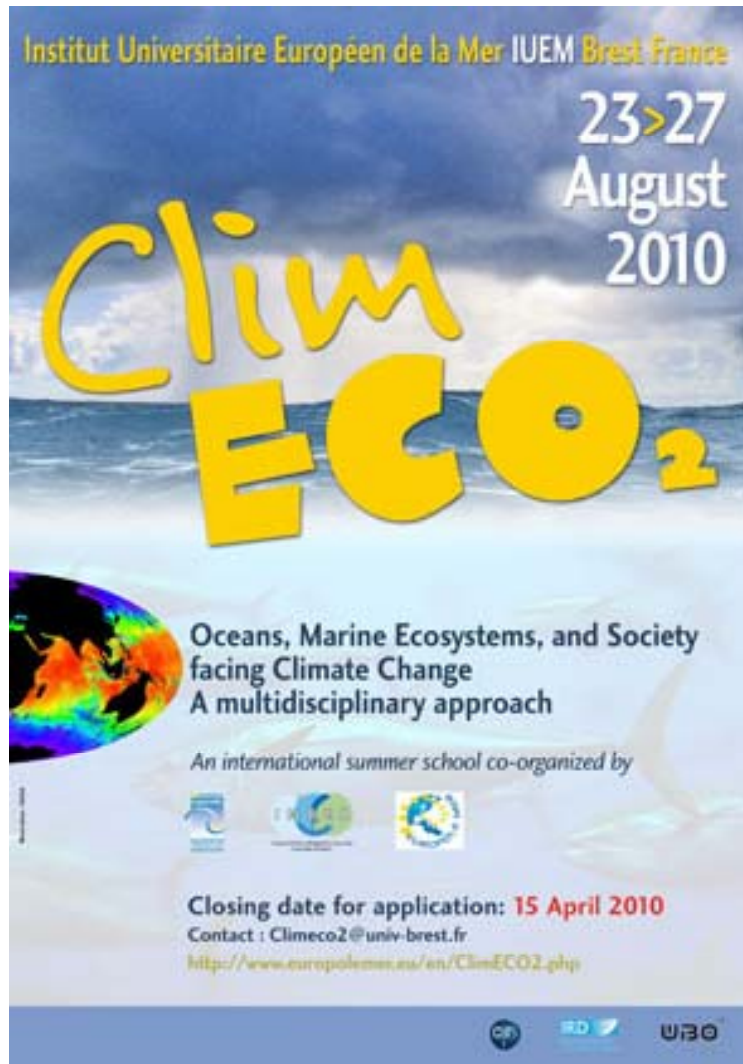
ClimECO₂ - Oceans, Marine Ecosystems, and Society facing Climate Change - A multidisciplinary approach

(Leader: Y-M. Paulet, France)

An international Summer School co-organized by IMBER, IUEM, and Europôle Mer.
23-27 August 2010, Brest, France

❑ Objective

This 5-day training programme aims to provide participants with an overview of knowledge, methods, models and approaches for analyzing the impact of climate change on marine ecosystems and the consequences for society.





IMBER IMBIZO II

10-14 Oct 2010 — Crete (Greece)

Integrating biogeochemistry and ecosystems in a changing ocean

Regional comparisons

Concurrent workshops :
From elemental ratios to food quality
Large-scale regional comparisons
Food web sensitivity to enhanced stratification

Contact: imbizo@univ-brest.fr Web site: <http://www.imbizo-2010.confmanager.com>



Schedule: Imber ImbizO logo by Anne Gerlich - gherlich@univ-brest.fr / Illustration & graphic design by Sébastien Heron - sebastien@sebastien-heron.com

Next IMBIZO

Workshop 1: The effect of varying element ratios on community structure at low trophic levels and food quality at mid and high trophic levels

Workshop 2: Large-scale regional comparisons of marine biogeochemistry and ecosystem processes

Workshop 3: Sensitivity of marine food webs and biogeochemical cycles to enhanced stratification

<http://www.imber.info/IMBIZO.html>

To stay informed

<http://www.imber.info>

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IMBER e-NEWS and Newsletter**



imber@univ-brest.fr