

Integrated Marine Biogeochemistry and Ecosystem Research

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)



\rightarrow Refines the SPIS - next five years

www.IMBER.info/SPIS.html



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



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.



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



Contact the IPO to recieve the IMBER e-NEWS and Newsletter

INSERV e-Reve IV'S - August 2017 Content		
1- INGER Press		
3- Puncing and California appoint appoint when		
8- A2012		
 Publications / Web Resources Interference on / Maritalization 		
a contract construction of the second	12.000	
1. MULT Serve		
The INSERTICICE Continents therpits Colm Ricence Conference aust held 17-21 Sectores 222		
Basi crina some investig (BCHJ), shargha (Chris: The Sulta converce velocities (Hd s		1 00 1
created a unique sublich for surrent projects and lower to be put forward in the manuation provide	INADED	Indata
MERICAL DIS About and december and angeing haut contactor process to	INDER	upuule
Report from the conference will be available on the AURER and site soon.		
14 Annual 1977 HILES are 12 AUX address that Canadra Annuality parties at the 2005		Indue No. 6 - March 2007
Brist, Pravis	Contants	
INSER appropriat (Wething)	Sellare	
Addressed with caller lines.	ALC: MARKED ANY	
T [®] CLIOTOP BUTERBURK CITIZE INSELS IN MERIS TO MERISARIA.	Control sufficient information of	C. Wittering I.
Ref: Hystelian Jealline 1 July 2007	July constitution p.2	
Pager submission cessions: 1 December 2027 Paul Resultation cession: 3 December 2027	Augusted with these	
the loss of an end of the set of	many the Meridiana Your	IMBER contribution to IPCC
04 June 2008, Las Paines De Cest Generis, Generi Hainds, Basie	7867 - 6EEL	scientific basis
representational Reproduction - Eastern accordany causeling accountance integrative and contra	Consult Address of the local distance of the	By Sund Acy and Dented Hanser
Conveners P. Peter (RD), tr. Betarge (SLOBEC) and J. Antelogi (SIBER)	Foreig Research ocheites on	and the second sec
in Hegelichter and care to abolitate	CO, roots sive occurs a.t.	fturter atfußes mit tepitty alettig Dath Greier processes
Barly Registration 18 Petrolary 2008	People and the second second	and indexicity informed access informed decision relates an un of union under informed access and under the control of the second secon
Mit have contransity comman christianist.	COURSe languages at 9	ture and extent of additionied inquarts of platial charge. This ne
20-26 June 2028, Rumsell, UK	The Durning Connert Sys-	that led is the goal of HURRY, which is to burneligate the service
Advances in literate Economies Moreling Research Summarium 2008 ("Enclose the peor", Advances instances (Inclusion)	Wontyless on sumplication	ranging have years to decedes. Central to the WillEP goal to I
THE TAXAN ADVECT AT LOOPING AND TAXAN STORE STORE AND	Readers Lauring Nor Am	meth of a predictive understanding of how martie bispecche
Countral the party of the same when the party strend terms in the state of the same	Austral Darmins Institute 194	carbitions, and changes in physical dynamics and scene chemic
And his state and the	Crite 2.13	Because It is auch a complex and charactering secue, policy/har
repetitive Surgerian Coning with goost change in matter accelerational to		an utsective source of information on the causes of children
Convenues lan Peny, Roseman Omman, Philipe Guru	Trafficer Rogenmenter	carac sequences. To addity three requirements, the Stand Se
The sea of the second sec	phese observicitury in the equi-	Cogarization (WMD) and the United Hallons Environmental
PROPERTY AND A TAXABLE PROPERTY AND A DESCRIPTION OF A DE	Harri Rogeure Antieret Cockum	in 1928. The IPCC are charged will eccentry be scientific, b
E-Funding and Collaborative opportunities	According to the	socia-account factors repund for unsentationg the tura a
Indexe is MUS allow of its print in a state base in the	and watchage	collegion. The IFE's Deland Approximate Description
	YA DOLLAR AND	the regulations anding to adoption of the Kanto Pretecol at
	and the second	recently, IPCO Working Oncer I has approved and advanced for I
	THE REAL PROPERTY AND INCOME.	This report describes progress is understanding the human and
	and the second second second	ers of charge charge observed charge charge charge

1.10

imber@univ-brest.fr