

# ANNUAL REPORT

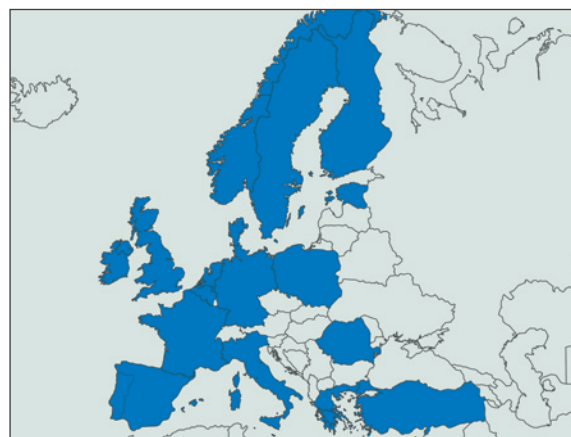


2007



## ■ Marine Board-ESF

The **Marine Board-ESF**, established in 1995, facilitates the enhanced co-operation between its member marine science organisations (both research funding organisations, and research institutes), and the development of research strategies for marine science in Europe. In 2007, the Marine Board represents 27 Member Organisations from 18 countries.

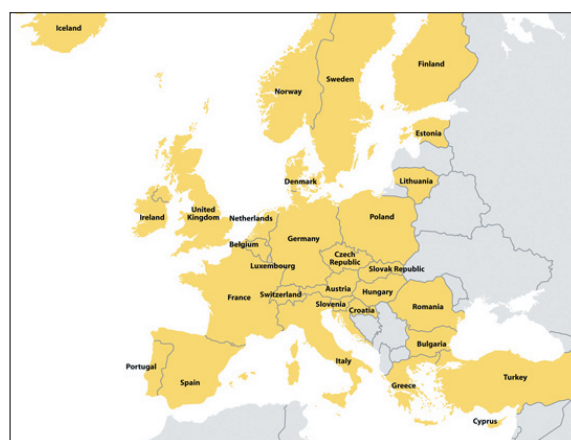


The Marine Board's main activities are developed around the four pillars of the Marine Board, as a focal point for marine science providing:

- **Forum:** bringing together European marine research performing and funding organisations to share information, to identify common issues and approaches, to develop common positions and perspectives, and to cooperate;
- **Synergy:** fostering European added value to component national programmes, facilitating access and shared use of national marine research facilities, and promoting synergy with international programmes and organisations.
- **Strategy:** to identify and prioritise emergent disciplinary and interdisciplinary marine scientific issues of strategic European importance, initiating analysis and studies (where relevant, in close association with the European Commission) in order to contribute to a European strategy for marine research.
- **Voice:** to express a collective vision of the future for European marine science in relation to developments in Europe and world-wide.

## ■ European Science Foundation

The Marine Board operates as an Expert Board within the European Science Foundation (ESF). The ESF was established in 1974 to create a common European platform for cross-border cooperation in all aspects of scientific research. With its emphasis on a multidisciplinary and pan-European approach, the ESF provides the leadership necessary to open new frontiers in European science.



The ESF's activities include providing science policy advice (science strategy); stimulating co-operation between researchers and organisations to explore new directions (science synergy); and the administration of externally funded programmes (science management). These take place in wide range of scientific areas.

Headquartered in Strasbourg with offices in Brussels and Ostend, the ESF's membership comprises 75 National funding agencies, research performing agencies and academies from 30 European countries. The Marine Board's activities are reviewed every five years by an external panel of globally renowned experts, established by the ESF. The Marine Board Secretariat's activities are reviewed annually by the ESF CEO.

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## Marine Board Highlights 2007



### January

Launch of Marine Board Position Paper 8 ***Navigating the Future III*** at the seminar *Marine Science and Technology in the FP 7* (16 January, Brussels)



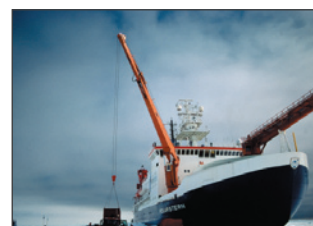
### February

IMARES (NL) coordinated FP6 SSA *The Future of European Fisheries and Aquaculture Research*, **FEUFAR kick-off** meeting (5-6 February, Crete)



### March

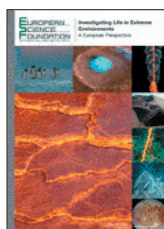
Launch of Marine Board Position Paper 9 ***Impacts of Climate Change on the European Marine and Coastal Environment*** (2 March, Bruges)



### April

Launch of the Marine Board Position Paper 10 ***European Ocean Research Fleets – Towards a Common Strategy and Enhanced Use*** (23 April, Brussels)

Photo: AWI



### May

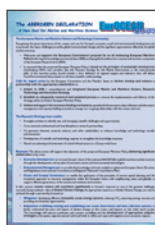
Publication of the joint Marine Board – ESF report ***Investigating Life in Extreme Environments***



### June

**EurOCEAN 2007** Conference. Marine Board co-ordinates the organising committee (22 June, Aberdeen)

**Marine Board Spring 2007 Plenary Meeting** (20-21 June, Aberdeen)



### July

Marine Board Secretariat in collaboration with Marine Institute – Ireland publish **Aberdeen Declaration** and EurOCEAN 2007 proceedings



### August

Marine Board Secretariat starts its relocation to the **InnovOcean site** on the North Sea coast - Ostend, Belgium (13 August)



### September

Marine Board Secretariat in its role of MarinERA Secretariat organises **MarinERA Technical Committee 6 Meeting** (19-20 September, Helsinki)

**Marine Board ExCom meeting** (26 September, Brussels)



### October

Marine Board brings together EurOCEAN 2007 organising committee to organise **Portuguese EU Presidency Event**, in association with CIMAR: *The Role of Marine Sciences in Ocean Sustainability and Global Change* (8 October, Lisbon)

**Marine Board Autumn 2007 Plenary Meeting** (30-31 October, Athens)



### November

Publication of Marine Board Position Paper 11 ***Marine Board responses to EC Green Papers on Maritime Policy, and the ERA***

Marine Board Chair Lars Horn represents the Marine Board at the **2007 ESF Science Policy Conference** *Is the ERA the first step to GLOREA (Global Research Area)* (28-29 November, Strasbourg)

Photo: Benoit Linder



### December

MarinERA partners secure approximately **€ 5M for MarinERA Call** for proposals, to be launched in 2008.

The Marine Board Secretariat successfully completes its relocation to InnovOcean site in Ostend (14 December)



## Message from the Chair



In 2007, the Members of the Marine Board decided that it was both appropriate and timely for the Board to prepare an Annual Report as a permanent record of its many activities and achievements. As the current chair, it is my pleasure, therefore, to introduce the first Marine Board Annual Report.

The Marine Board can trace its origins to the “Grand Challenges” discussions of the early 1990s. It became an official association in October 1995 as the European Marine and Polar Science Boards (EMaPS) under the auspices of the European Science Foundation (ESF). After external review in 1999, the Marine and Polar Boards decided to pursue Marine Science (the Marine Board-ESF) and Polar Science (the European Polar Board-ESF) Agendas separately.

The Marine Board’s early chairs included such illustrious characters as Daniel Cadet (1995 - 1999), Fauzi Mantoura (1999 – 2002) and Jean-François Minster (2002 - 2006). During this time the Board has accumulated a publication record of 11 Strategic Position Papers and three Reports, has been involved in and organised a number of significant pan-European Conferences and Workshops, and has built up a membership of 27 leading European Marine Research Institutes and Funding Organisations.

In 2007, the Marine Board was at the forefront of many important pan-European developments.

Perhaps the most significant development of 2007 was the publication of An Integrated Maritime Policy for the European Union (October 2007) by the European Commission. This Maritime Policy, the first of its kind in Europe, aims to foster “a dynamic maritime economy in harmony with the environment and supported by excellence in marine science and technology.”

The Integrated Maritime Policy is a major milestone for those who believe that Europe must do more to realise the full potential of its extensive marine and maritime resources. The Maritime Policy will, we anticipate, foster new technology and knowledge-based commercial opportunities in areas such as renewable ocean energy, the cleaner-greener ship, value-added bio-products from the sea (e.g. blue biotechnology), the deep-sea frontier and new innovations in ocean observatories. It introduces an important international dimension, for instance in governance issues such as Climate Change, which are too large and complex to be handled efficiently by any single nation or even the European Union itself.

The Marine Board is delighted and proud to have contributed to this initiative in several ways and in particular through its involvement in the organisation of the EurOCEAN 2007 Conference and its participation (through its Secretariat and a number of individual Delegates) in drafting the Aberdeen Declaration (June 2007).

The effectiveness of the Marine Board and the wide range of activities it is involved in were only possible through the high level of professionalism and dedication of the Marine Board Secretariat, which continues to provide a highly appreciated support to the 27 Member Organisations of the Marine Board. On behalf of the entire Board, I would like to thank all Secretariat staff for their continued dedication and professionalism.

A handwritten signature in black ink, appearing to read 'Lars Horn'.

Mr Lars Horn  
Research Council of Norway  
Chair Marine Board-ESF

## Executive Scientific Secretary's Report



The Marine Board Secretariat works to deliver activities prioritised by the Board, enabling the Board to address a wide range of marine and maritime policy issues, as well as developing high quality foresight publications.

The highlights of 2007 include the organisation of the **EurOCEAN 2007 Conference** in Aberdeen (Scotland), publication of the **Aberdeen Declaration** and the **successful relocation** of the Secretariat from Strasbourg (France) to Ostend (Belgium).

The organisation of the EurOCEAN 2007 Conference, in association with the European Commission and the local host, Professor John Watson, University of Aberdeen, was a major triumph. Organised as a separate, but linked event, to the IEEE/OES Oceans '07 Conference in Aberdeen, EurOCEAN 2007 provided a unique opportunity for the marine and maritime research communities to respond with one voice to the European Maritime Policy Green Paper Consultation Process.

The output of the EurOCEAN 2007 Conference, the Aberdeen Declaration (June 2007), a commendable successor to the Galway Declaration (EurOCEAN 2004), proved to be a very influential document having an important and acknowledged impact on the Integrated Maritime Policy for the European Union published by the EU Commission in October 2007.

The other major event of 2007 was the relocation of the Secretariat from ESF Headquarters in Strasbourg to the InnovOcean site on the water front in Ostend (Belgium). The move was facilitated by a very generous offer from the Government of Flanders to the ESF CEO to provide office space in the InnovOcean site which also houses the Flanders Marine Institute (VLIZ), the UNESCO's IOC Project office for IODE, and the Flanders Coordination Centre for Integrated Coastal Zone Management. Thus we are not only now located in a maritime setting but interact on a daily basis with active members of the Flemish and international marine research communities.

In 2007, activities supported by the Secretariat (4.5 FTEs) included:

- Organisation of the Spring Plenary (Aberdeen, June), and the Autumn Plenary (Athens, October);
- Publication of three Position Papers (*Impacts of Climate Change; Ocean Research Fleets; Responses to EU Green Papers on Maritime Policy, and the ERA*);
- Joint Marine Board – ESF publication *Life in Extreme Environments*;
- Establishment of two new Working Groups: *Science Dimensions of Ecosystem Approach to Management of Biotic Ocean Resources*, WG SEAMBOR; *New Chemical Pollutants in European Marine Environment*, WG POL;
- Preparation of responses to EC Consultations on:
  - A future Maritime Policy for the Union (June 2007);
  - The European Research Area: New Perspectives (September 2007);
  - Adaptation to Climate Change (November 2007);
- Deputy Coordination and Secretariat for FP6 ERA-NET MarinERA;
- Support to FP6 ERA-NET AMPERA; and FP6 SSA FEUFAR (Future of European Fisheries and Aquaculture Research).

In spite of the enormous demands on our time in relation to organising EurOCEAN 2007 and the move to Ostend, the productivity of the Marine Board and its Secretariat reached a new high in 2007. Now that the relocation of the Secretariat has been completed, we are confident that this trend of increased activities will continue in 2008.

A handwritten signature in black ink that reads "Niamh Connolly". The script is cursive and fluid.

Dr Niamh Connolly  
Executive Scientific Secretary  
Marine Board-ESF

## Marine Board-ESF Structure & Organisation

The **Marine Board** is an association of 27 Marine Research Organisations from 18 European countries. Marine Board Member Organisations are major national marine scientific institutes, funding agencies and research councils (a full list of Marine Board Member Organisations in 2007 can be found in Annex I). **Plenary Meetings** of all Member Organisations are held twice yearly in Spring and Autumn to decide policy and plan collaborative initiatives. As an Expert

Board of the ESF, the Marine Board operates within ESF Terms of Reference, rules and procedures.

Governance of the Marine Board is undertaken by an Executive Committee composed of a Chair and six vice-Chairs, elected by the Marine Board Delegates. The **Executive Scientific Secretary**, as the Head of the Marine Board Secretariat, is also a member of the Executive Committee.



Marine Board Delegates at the Autumn 2007 Marine Board Plenary Meeting (Athens)

The Executive Committee Members in 2007 are:



Chair **Lars Horn**  
(Research Council of Norway - RCN)



Vice-Chair **Kaisa Kononen**  
(Academy of Finland – AKA)



Vice-Chair **Jan De Leeuw**  
(Royal Netherlands Academy of Arts and Sciences - KNAW)



Vice-Chair **Jan Mees**  
(Flanders Marine Institute - VLIZ, Belgium)



Vice-Chair **Antoine Dosdat**  
(French Sea Research Institute – Ifremer)



Vice-Chair **Kostas Nittis**  
(Hellenic Centre for Marine Research - HCMR, Greece)



Vice-Chair **Ed Hill** (National Oceanography Centre, Southampton – NOCS, UK)



Executive Scientific Secretary  
**Niamh Connolly**  
(Head of Unit, Marine Board-ESF)



## Marine Board-ESF Structure & Organisation

A permanent **Secretariat** develops activities on behalf of the Marine Board. In 2007, the Marine Board Secretariat includes three science officers and an administrator, headed by the Executive Scientific Secretary, totalling 4.5 FTEs. The Marine Board Head of Unit (Executive Scientific Secretary of the Board) is a member of the Senior Management Group of the ESF and as such reports to the ESF CEO's office, ESF Governing Council (twice annually), and ESF General Assembly.

The Marine Board Chair meets with the Chairs of all of the ESF constituent Committees and Boards, as well as ESF CEO and President twice annually.



The Marine Board Secretariat (from left to right): Dina Eparkhina (administrator), Aurélien Carbonnière (science officer), Niamh Connolly (Executive Scientific Secretary), Jan-Bart Calewaert and Maud Evrard (science officers).

## Relocation to the InnovOcean site, Ostend, Belgium

In 2007, the Marine Board Secretariat completed its relocation from the ESF Headquarters in Strasbourg (France) to Ostend (Belgium). The decision to relocate was agreed at the Marine Board Spring 2006 Plenary Meeting, and approved by the ESF. Following the formal invitation from the Government of Flanders to the ESF, the new Marine Board offices in Ostend are located within the InnovOcean site. InnovOcean also houses the Flanders Marine Institute

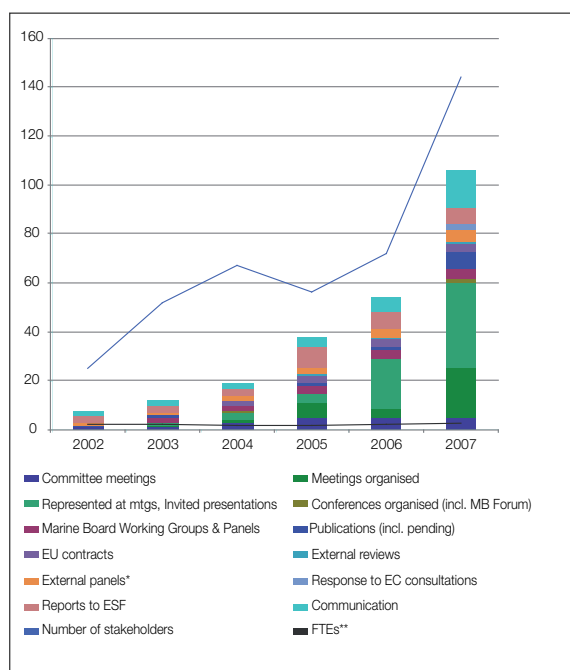
(VLIZ), the UNESCO IOC's Project Office for IODE, and Flanders Coordination Centre for Integrated Coastal Zone Management.

The Marine Board and the ESF greatly acknowledge the direct support by the Government of Flanders to the Marine Board Secretariat.



## Marine Board Activities

In 2007, the Marine Board continued its trend of increasing activities in comparison with previous years. This trend is expected to continue in 2008.

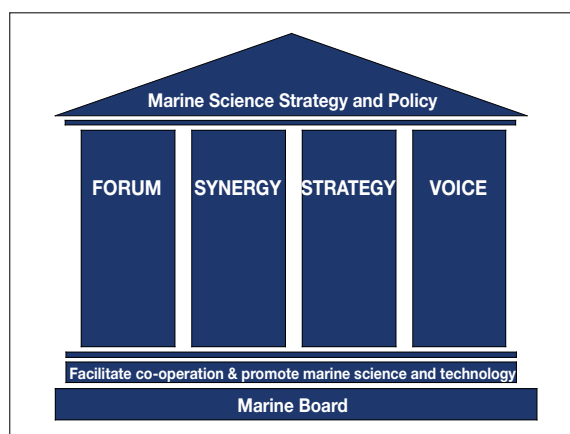


Marine Board Activities overview (2002-2007)

\* External Panels include: HERMES (SC), Waterborne TP (Observer), and BioMarine (SC);

\*\*FTEs include: FTEs paid by direct contributions from Marine Board Members (this does not include FTEs paid through Marine Board FP contracts).

The main activities of the Marine Board are developed around the four pillars: Forum, Synergy, Strategy, and Voice.



## Marine Board 2007 in figures

Member Organisations	27
Member Countries	18
Meetings organised	21
International conferences organised	2
Invited presentations at meetings and conferences	13
Total meetings at which the Marine Board was represented	49
Stakeholder organisations interacted with	144
Position Papers edited and published	4
Position Papers printed	7,000
Position Papers disseminated (*at least)	5,500*
Press Releases issued	6
Number of Secretariat FTEs	4.5

## Marine Board Plenary meetings

Marine Board Plenary Meetings, held twice a year in the Spring and Autumn, provide a platform for Marine Board Delegates to reflect and agree on topical marine science and technology issues, and propose future strategic actions. During these meetings, Delegates benefit from interactions with each other, with speakers and with invited guests, as well as with observers from the European Commission's DG RTD and DG MARE. The ESF CEO office is also represented at the Marine Board Plenary Meetings.



Marine Board Delegates at the Spring 2007 Marine Board Plenary Meeting (Aberdeen)

In 2007, the Marine Board Plenary Meetings took place on 19-20 June in Aberdeen (Scotland), hosted by NERC and Marine Board; and 30-31 October in Athens (Greece), hosted by HCMR.

During the 2007 Spring Plenary Meeting, the Marine Board formally approved the membership of the Estonian Academy of Sciences and the Cyprus Oceanography Centre.

## Marine Board Working Groups

Marine Board Working Groups are established to address specific issues identified by the Board as warranting expert assessment and foresight. Any Member Organisation may propose a strategic topic by presenting a Scoping Paper outlining the aims, objectives and deliverables. If approved by the Board,

a Working Group is established for a 12 to 18 month period. Member Organisations pay the cost of participation of nominated experts. The output of a Working Group is usually a Strategic Position Paper. To-date (2007) the Marine Board has produced 11 Strategic Position Papers (Annex IV).

Active Working Groups (2007) include:

- The Remote Sensing of Shelf Sea Ecosystems;
- Climate Change Impacts on the European Marine and Coastal Environment;
- Ocean Research Fleets.

## Marine Board Panels

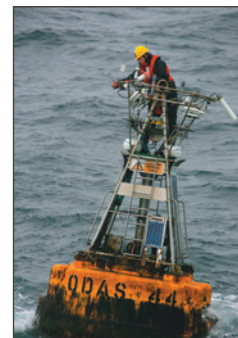
Marine Board Panels are established on an open-ended basis to address operational issues in areas where the panel members, and by extension their institutions, benefit from interacting with each other. Marine Board Panels are evaluated annually at the Autumn Plenary Meetings.

The **Marine Board Communications Panel** consists of 11 members from 11 organisations (Annex III). This Panel operates as a collaborative network and its aims are to mutually assist its members in promoting and communicating marine science across Europe and exchanging ideas on events, communication methods and best practice. The Panel was instrumental in promoting the EurOCEAN 2007 Conference and the resultant Aberdeen Declaration.

## Marine Board Biennial Fora

In 2007, the Marine Board Autumn Plenary decided to initiate a biennial series of Scientific Meetings to address key issues in Marine Science and Technology. The focus of the 1<sup>st</sup> Marine Board Forum, which will be held in Ostend in the Spring 2008, will be on marine data challenges: from observation to information.

Photo: M. Mackey



Fostering European added-value in national and regional programmes and promoting synergy with regional and international programmes is one of the pillars of the Marine Board Operational Strategy. To this end, in 2007, the Marine Board has been instrumental in a number of high profile synergistic activities, including:

## MarinERA

The Marine Board is Deputy Coordinator of MarinERA, and provides the project Secretariat.



The FP6 ERA-NET MarinERA was developed by the Marine Board and based on a previous network of Marine Research Funding Organisations established to provide a Report to CREST on The Mutual Opening Member States Programmes in Marine Science (2002 / 03).

The MarinERA Project (1 November 2004 – 31 October 2008) aims to facilitate collaboration between national and regional marine RTD programmes in Europe, and is a partnership of 15 marine RTD Funding Organisations in 13 countries.

In 2007, key MarinERA achievements include:

- MarinERA Call for Proposal (to be launched in spring 2008) Regional Drivers of Ecosystem Change - envelop of approximately € 5M secured for MarinERA call for proposals.
- MarinERA Database - partners grant over € 326M through competitive funding to collaborative research projects: <http://marinedb.marinera.net/>.
- MarinERA Infrastructure Workshop 2 – resulted in the consolidation of a Consortium and the elaboration of an I3 FP7 proposal (EuroFLEETs).

In 2007, the Marine Board Secretariat, in its role as MarinERA Secretariat, organised and hosted four MarinERA meetings and workshops (with seven associated reports, including activity and meeting reports), prepared and submitted five contractual reports to the European Commission, and produced two publications (including MarinERA electronic Newsletter – Issue 3).

Web: [www.marinera.net](http://www.marinera.net)

The Marine Board also contributes to other FP6 Projects, AMPERA and FEUFAR:

## • AMPERA

The FP6 AMPERA-NET project (1 April 2005 – 31 March 2009), coordinated by the Ministry of Education and Science, MEC (Spain), is a consortium of ten partners from eight countries. The project aims to foster cooperation in the prevention and best practice in relation to responses to accidental marine pollution. As a Task Leader in AMPERA, the Marine Board provides a collaborative platform for marine and environmental ERA-NETs; the Marine Board organises annual fora on specific topics of interest to research funding organisations, involved in these ERA-NETs, and EUROCORES.

In 2007, the Marine Board organised the 3<sup>rd</sup> Marine and Environmental ERA-NETs Forum (February 2007, Brussels) focusing on (1) marine/environmental cross-cutting issues and potential means to reinforce a strategic position to deliver the best research in support of policies; and (2) the improvement and harmonisation of programme management procedures among ERA-NETs. The Forum was attended by 18 participants representing 15 different research funding organisations, and representatives from EC DGs.

Web: [www.ampera-net.info](http://www.ampera-net.info)

## • FEUFAR

Future of European Fisheries and Aquaculture Research, FEUFAR (1 January 2007 – 31 August 2008), coordinated by IMARES (NL), is an FP6-funded Specific Support Action, SSA. The objective of FEUFAR is to identify key challenges and options towards a more sustainable development of European fisheries and aquaculture industries. The Marine Board provides its expertise to address marine science as a whole in the frame of the project, in particular in support of the workshops.

Web: [www.feufar.eu](http://www.feufar.eu)



## Marine Board Strategic Position Papers

In 2007, the Marine Board published three Strategic Position Papers based on the work of its Working Groups, and a joint Marine Board - ESF report *Life in Extreme Environments – A European Perspective*.



Details of the Membership of the Marine Board Working Groups is contained in Annex II. All Marine Board Position Papers are subject to external review, and review by the ESF.

A full list of Marine Board publications can be found in Annex IV.

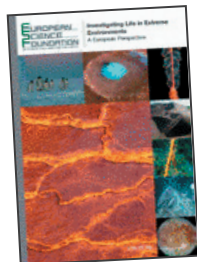
### **Marine Board Position Paper 11 Marine Board Responses to the EC's Green Papers on Maritime Policy and the ERA** (November 2007)



This Position Paper contains Marine Board responses to two major EU Green Paper consultation processes namely:

- Towards a future Maritime Policy for the Union: A European Vision for the Oceans and Seas.
- The European Research Area (ERA): New Perspectives.

### **Investigating Life in Extreme Environments – A European Perspective** (May 2007)



Investigating Life in Extreme Environments is a product of collaboration between the Marine Board and ESF's Standing Committees for: Humanities and Life, Earth and Environmental Sciences, and European Medical Research Councils; as well as

European Polar Board, and European Space Sciences Committee. The publication forms the basis of the successful FP7 CAREX Project which was formulated between the British Antarctic Survey and seven other European research institutes, with ESF as Project Manager, in response to the 1st call for proposals under the FP7.

### **Marine Board Position Paper 10 European Ocean Research Fleets – Towards a Common Strategy and Enhanced Use** (March 2007)

This Position Paper provides an assessment of Europe's Marine Research Vessel Fleet, and recommendations for more efficient use of the existing fleet and vessel replacement and renewal. It was launched by Working Group Chair Jacques Binot (Ifremer) and Marine Board vice-Chair Dr. Jan Mees (VLIZ) at the Meeting on Marine Infrastructures, organised in collaboration with the European Commission (23 April 2007, Brussels). The publication paved the way for an FP7 I3 project called EUOFLLEETS, whose aims and objectives are based on the recommendations contained in this Marine Board Position Paper.



### **Marine Board Position Paper 9 Impacts of Climate Change on the European Marine and Coastal Environment** (March 2007)

Position Paper 9 identifies marine climate change impacts in European seas and coastal areas, and identifies key research priorities that need to be addressed. The publication was formally presented by Working Group Chair Dr. Katja Philippart (NIOZ) to Koen Verlaeck, Head of the Science and Technology Cabinet of Flemish Minister of Economy, Enterprise, Science, Innovation and Foreign Trade Fientje Moerman, at the VLIZ Symposium for young scientists (2 March 2007, Bruges).

The Marine Board Secretariat and Delegates were also actively involved in the preparation of other key reports, including the Proceedings of the EuroOCEAN 2004 Conference (Galway) and EuroOCEAN 2007 (Aberdeen) (see Annex IV).



A core strategy of the Marine Board is to facilitate the expression of a collective vision on the future direction of European marine science and technology.

## Conferences

In support of the European Commission, and in association with the hosts of the IEEE / OES OCEANS '07 Conference, the Marine Board was the principle organiser of the **EurOCEAN 2007 Conference** (22 June 2007, Aberdeen).



from left to right: Dr. Peter Heffernan (Marine Institute, Ireland), Commissioner Borg, Mr. Lars Horn (Marine Board), Prof. Peter Herzig (KDM, Germany) and Prof. Joao Coimbra (CIMAR, Portugal) at EurOCEAN 2007 Conference (Aberdeen, June 2007)

EurOCEAN 2007 provided a major platform for the European marine and maritime science and technology communities to contribute to the debate on a future Maritime Policy for the European Union and to formulate a vision, presented as the **Aberdeen Declaration** on the role of marine and maritime science and technology in response to the Maritime Policy Green Paper (2006).

The Marine Board Executive Secretary and individual Members of the Board played a key role in drafting the Aberdeen Declaration.

Following the success of the EurOCEAN 2007 Conference, the Marine Board was invited by the Portuguese EU Presidency to assist in the organisation of the Science Policy Conference ***The role of marine sciences in ocean sustainability and global change*** (8 October 2007, Lisbon). The Lisbon Conference greatly facilitated the

effective delivery of the Aberdeen Declaration to national policy makers in Europe.

## Responses to EC consultations and policy developments



The Marine Board produces statements and responses to European Commission initiatives, to represent the voice of its scientific community.

In 2007, the Marine Board submitted responses to three European Commission Green Paper consultations:

- Towards a future Maritime Policy for the Union: A European vision for the oceans and seas (June 2007);
- The European Research Area: new perspectives (September 2007);
- Adaptation to climate change in Europe - options for EU action (November 2007).

The Marine Board welcomed the adoption of the European Commission **Blue Book for a Maritime Policy** (10 October 2007), which includes a plan of action to improve cross-sectoral collaboration between maritime players, and issued a statement to this effect.

## Communication

In April 2007, the ESF launched a new website, which includes the Marine Board's **website** maintained by the Secretariat: [www.esf.org/marineboard](http://www.esf.org/marineboard)



The Marine Board Secretariat issued a number of press releases on the following events and initiatives:

- Launch of the Marine Board Position Paper 8 *Navigating the Future III* (January 2007);
- Launch of the Marine Board Position Paper 9 *Impacts of Climate Change on the European Marine and Coastal Environment* (March 2007);
- Launch of the Marine Board Position Paper 10 *European Ocean Research Fleets* (April 2007);
- Release of the Aberdeen Declaration subsequently to the EuroOCEAN 2007 Conference (June 2007)
- Transmission of the Aberdeen Declaration to Member States at the Portuguese EU Presidency Conference *The role of marine sciences in ocean sustainability and global change* (October 2007)
- Launch of the Blue Book on the Integrated Maritime Policy (10 October 2007).

In 2007, the Marine Board Secretariat provided inputs for the **ESF Newsletter** to the Member Organisations (October

2007), two **reports to the ESF** Governing Council, and one report to the ESF General Assembly.

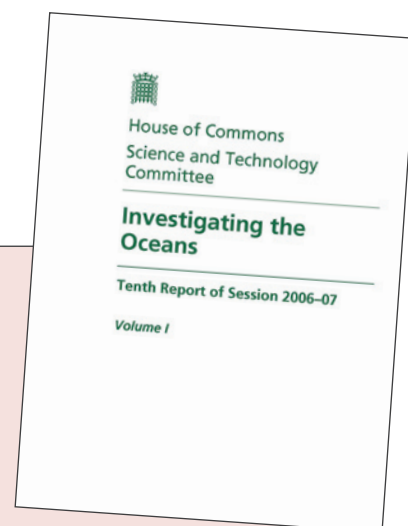
In addition to this, the Secretariat provided regular updates on its activities to the ESF Management Group via the participation by Marine Board Executive Secretary at ESF Management meetings.

Furthermore, in 2007, the Marine Board published its summary profile **brochure** (June 2007). An updated **poster** was prepared prior to the ESF General Assembly and Science Conference (November 2007). Both are available to Member Organisations for their use.

In 2007 the Marine Board and EuroGOOS established a joint **Marine Board-EuroGOOS Expert Panel** to prepare a Vision Document on the European Marine Observation and Data Network (EMODNET) calling for a fully operational European Seas and Oceans Observing System and not solely a data portal. This Group will report in 2008.

The Marine Board Position Papers are widely regarded as being of high quality and relevance, with recognition and impact at national and European levels. For example, in its Report *Investigating the Oceans* (October 2007), the **UK House of Commons acknowledges the work of the Marine Board**. The House of Commons Select Committee on Science and Technology points out that *"the Marine Board plays an important role in bringing together the marine community (...) taking an increasingly proactive role in highlighting the contribution that marine sciences can make to the policy agenda."* The Report further describes Marine Board Position Paper 8 (*Navigating the Future III*) as *"an excellent synthesis of perspectives on marine science and technology in Europe."*

The UK Report also acknowledges Marine Board's involvement in the *"progressive institutional self-organisation of the Marine Science Community at the European level."*





## Income

The Marine Board's annual budget for the staffing and operation of the Secretariat and its activities, is based on:

- Direct contributions from its Member Organisations for the core Marine Board's activities;
- FP6 contracts in support to the Marine Board's activities related to these contracts.

The call for Member Organisations' contributions in 2007 resulted in an income of €189,399 from 25 Member Organisations (two out of 27 Member Organisations had a status of Associated Members in 2007; they will pay contributions from 2008). See table below.

Special contributions were received in 2007 from:

- Research Council of Norway (€35,000) in support to Marine Board publications ;
- NOCS (€2,226) and NERC (€1,413) in support to the Spring 2007 Plenary Meeting.

Income	2007
Members' contributions	€ 189,399
Special contributions	€ 38,639
<b>Total Income</b>	<b>€ 228,038</b>

As part of the relocation package, the Flemish Government agreed to cover the cost of one administrator to the Marine Board Secretariat, and provides office facilities for the permanent Marine Board Secretariat. In addition to this, the Flanders Marine Institute, VLIZ, provided support of direct costs of the Secretariat's relocation to Ostend.

## Expenditure on Core Marine Board Activities

In 2007, the Marine Board expenditure on its core activities amounted to €282,533, which included employment and publications costs.

Expenditure	2007
Secretariat's employment costs (2,5 FTEs)	€ 194,210
Meetings	€ 42,012
Publications	€ 19,304
Administrative costs	€ 12,801
Overheads to ESF	€ 14,204
<b>Total Expenditure</b>	<b>€ 282,533</b>

Administrative costs include: office running costs, and equipment.

The Marine Board Secretariat is engaged, on behalf of its Member Organisations, in a number of EC-funded FP6 contracts (MarinERA, AMPERA, and FEUFAR). Income received from these projects covers some of the Secretariat's activities related to them, including: employment costs of 2 FTEs, organisation of meetings (including hosting, travel and subsistence), and production of publications. The following table represents total budgets of the Marine Board FP6 contracts, for their entire duration.

## Marine Board FP6 contracts' budgets

FP6 Project	Start date	End date	Total budget	Overheads
MarinERA	01/11/2004	31/10/2008	€ 1,040,679	€ 172,113
AMPERA	01/04/2005	31/03/2009	€ 49,374	€ 7,562
FEUFAR	01/01/2007	31/08/2008	€ 49,673	€ 8,031
<b>Total FP6 budgets</b>			<b>€ 1,139,726</b>	<b>€ 187,706</b>

In 2007, the expenditure on FP6 activities amounted to **€262,966**. Through the overhead allocation to the ESF, the ESF re-allocated €15,000 towards Marine Board and MarinERA publication costs in 2007.

See expenditure table below.

Expenditure	MarinERA	AMPERA	FEUFAR
Employment costs	€ 169,111	€ 34,378	-
Meetings	€ 9,802	€ 1,329	€ 3,844
Administrative costs	€ 805	€ 16	€ 17
Overheads to ESF	€ 35,766	€ 7,100	€ 800
<b>Total Expenditure 2007</b>	<b>€ 215,484</b>	<b>€ 42,823</b>	<b>€ 4,661</b>

## Annex I. Marine Board Member Organisations and Delegates 2007

### **BELGIUM**

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Fonds National de la Recherche Scientifique (FNRS) / National Fund for Scientific Research

Jean-Marie Beckers (Université de Liège)

Fonds voor Wetenschappelijk Onderzoek - Vlaanderen (FWO) / Fund for Scientific Research – Flanders

Jan Mees (Flanders Marine Institute – VLIZ), vice-Chair

### **DENMARK**

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Forskningsradet for Natur og Univers (FNU) / Natural Science Research Council

Bo Riemann (National Environmental Research Institute)

### **FINLAND**

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Suomen Akatemia / Academy of Finland

Kaisa Kononen, vice-Chair

### **FRANCE**

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Centre National de la Recherche Scientifique (CNRS) / National Centre for Scientific Research

Nicole Papineau

Institut Français de Recherche pour l'Exploitation de la Mer (Ifremer) / French Sea Research Institute.

Antoine Dosdat, vice-Chair

### **GERMANY**

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Deutsche Forschungsgemeinschaft (DFG) / German Research Society

Hermann-von-Helmholtz-Gemeinschaft deutscher Forschungszentren (HGF) / Association of National Research Centres

Karin Lochte (Alfred-Wegener-Institut für Polar- und Meeresforschung)

Bodo von Bodungen (Institut für Ostseeforschung, Warnemünde)

### **GREECE**

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Hellenic Centre for Marine Research (HCMR)

Kostas Nittis, vice-Chair

### **IRELAND**

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Marine Institute

Geoffrey O'Sullivan

### **ITALY**

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Consiglio Nazionale delle Ricerche (CNR) / National Research Council

Annalisa Griffa (Institute of Marine Sciences of the National Research Council)

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS) / National Institute of Oceanography and Experimental Geophysics

Alessandro Crise

### **THE NETHERLANDS**

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Koninklijke Nederlandse Akademie van Wetenschappen (KNAW) / Royal Netherlands Academy of Arts and Sciences

Jan W. de Leeuw, vice-Chair

Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO) / Netherlands Organisation for Scientific Research

Raymond Schorno

### **NORWAY**

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Havforskninginstituttet / Institute of Marine Research

Tore Nepstad

Norges Norges forskningsråd / The Research Council of Norway

Lars Horn, Chair

### **POLAND**

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Polska Akademia Nauk (PAN) / Polish Academy of Sciences

Jerzy Dera (Institute of Oceanology)



## Annex I. Marine Board Member Organisations and Delegates 2007

### **PORTUGAL**

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Gabinete de Relações Internacionais da  
Ciência e do Ensino Superior (GRICES)

Fundação para a Ciência e a Tecnologia  
(FCT) / Science and Technology Foundation

Mario Ruivo

### **SPAIN**

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Consejo Superiorde Investigaciones Científicas  
(CSIC) / Council for Scientific Research

Beatriz Morales-Nin (Instituto Mediterráneo  
Estudios Avanzados (CSIC/UIB)

Instituto Espanolde Oceanografia (IEO) /  
Spanish Institute of Oceanography

Gregorio Parrilla

### **SWEDEN**

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Vetenskapsradet / Swedish Research Council

Kerstin Johannesson

### **TURKEY**

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Türkiye Bilimsel ve Teknik Arastirma Kurumu  
(TUBITAK) / The Scientific and Technological  
Research Council of Turkey

Sevcan Colpan Polat-Beken

### **UNITED KINGDOM**

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Natural Environment Research Council (NERC)

Mike Webb

NationalOceanographyCentre, Southampton  
(NOCS)

Edward Hill, vice-Chair

Associated Member Organisations 2007

### **CYPRUS**

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Cyprus Oceanography Center

Georgios Georgiou

### **ESTONIA**

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Eesti Teaduste Akadeemia / Estonian Academy  
of Sciences

Tarmo Soomere

## ■ ANNEX II. Marine Board Working Group Members 2007

### **Climate Change Impacts on the European Marine and Coastal Environment Working Group (2006– 2007)**

Catharina J.M. Philippart, Netherlands Institute for Sea Research, The Netherlands, Chair

Ricardo Anadón, Dep. de Biología de Organismos y Sis-temas, Universidad de Oviedo, Spain

Roberto Danovaro, Dipartimento di Scienze del Mare, Italy

Joachim W. Dippner, Baltic Sea Research Institute, Germany

Kenneth F. Drinkwater, Institute of Marine Research, Norway

Stephen J. Hawkins, Marine Biological Association of the UK

Geoffrey O'Sullivan, Marine Institute, Ireland

Temel Oguz, Institute of Marine Sciences, Turkey

Philip C. Reid, SAHFOS, United Kingdom

Marine Board Working Group science officers: Niamh Connolly, Nicolas Walter

### **Ocean Research Fleets Working Group (OFWG) (2005 – 2007)**

Jacques Binot, Ifremer, France (Chair)

Juanjo Danobeita, UTM-CSIC, Spain

Thomas Muller, IFM-GEOMAR, Germany

Per Wilhelm Nieuwejaar, Institute of Marine Research (IMR), Norway

Marieke J. Rietveld, Royal Netherlands Institute for Sea Research (NIOZ), The Netherlands

Paul Stone, NERC Research Ship Unit, United Kingdom

Massimiliano di Bitteto, Institute for the Marine Coastal Environment (CNR-IAMC), Italy

John Breslin, Marine Institute, Ireland

Klaus von Broeckel, IFM-GEOMAR, Germany

Joao CoiMarine Boardra, Centre for Marine and Environmental Research (CIIMAR), Portugal

Dimitris Georgopoulos, Hellenic Centre for Marine Research, Greece

Mick Gillooly, Marine Institute, Ireland

Hannu Gronvall, Finnish Institute of Marine Research, Finland

Jan Piechura, Polish Academy of Sciences – Institute of Oceanology, Poland

Frans Veenstra, Netherlands Institute of Fisheries Research (EFARO observer)

Marine Board Working Group science officers: Niamh Connolly, Aurélien Carbonnière

### **Remote Sensing of Shelf Sea Ecosystems Working Group (2005 – 2007)**

Ian S. Robinson, National Oceanography Centre, Southampton, United Kingdom (Chair)

David Antoine, Laboratoire d'Océanographie de Villefranche (LOV), France

Mirosław Darecki, Institute of Oceanology, Poland

Patrick Gorringe, EuroGOOS, Sweden

Lasse Pettersson, Nansen Environmental and Remote Sensing Center, Norway

Kevin Ruddick, Royal Belgian Institute of Natural Sciences, Belgium

Rosalia Santoleri, CNR Istituto di Scienze dell'Atmosfera e del Clima, Italy

Herbert Siegel, Leibniz-Institut für Ostseeforschung Warnemünde, Germany

Patrick Vincent, Ifremer, France

Marcel R. Wernand, Royal Netherlands Institute for Sea Research Physical Oceanography Marine Optics & Remote Sensing, The Netherlands

Guy Westbrook, Marine Institute, Ireland

Giuseppe Zibordi, Joint Research Center, Italy

Marine Board Working Group science officers: Niamh Connolly, Nicolas Walter and Jan-Bart Calewaert

## ■ ANNEX III. Marine Board Communications Panel 2007

John Joyce, Marine Institute, Ireland, Chair

Fernando Barriga, Universidade de Lisboa, Portugal

Jan Boon, Royal Netherlands Institute for Sea Research (NIOZ), The Netherlands

Anne Ditlefsen, Research Council of Norway (RCN), Norway

Albert Gerdes, Centre for Marine Environmental Sciences (MARUM), Germany

Stephanie Lux, Institut français de recherche pour l'exploitation de la mer (Ifremer), France

Kim Marshall Brown, National Oceanography Centre, Southampton (NOCS), United Kingdom

Gregorio Parilla, Instituto Español de Oceanografía, Spain

Slawomir Sagan, Institute of Oceanology of the Polish Academy of Sciences (IOPAS), Poland

Jan Seys, Vlaams Instituut voor de Zee (VLIZ), Belgium

Yvonne Robberstad, Institute of Marine Research (IMR), Norway

Marine Board Panel science officer: Maud Evrard



## Annex IV. Marine Board Publications. Strategic Position Papers

**Position Paper 11:** Marine Board Responses to the EC's Green Papers on: Maritime Policy, and the ERA (November 2007)

**Position Paper 10:** European Ocean Research Fleets – Towards a Common Strategy and Enhanced Use (March 2007).

**Position Paper 9:** Impacts of Climate Change on the European Marine and Coastal Environment – Ecosystems Approach (March 2007)

**Position Paper 8:** Navigating the Future III (November 2006)

**Position Paper 7:** Modelling in Coastal and Shelf Seas – European Challenges (June 2005)

**Position Paper 6:** Navigating the Future II. Summary of Integrating Marine Science in Europe (March 2003)

**Position Paper 5:** Integrating Marine Science in Europe (November 2002)

**Position Paper 4:** Marine Biotechnology – A European Strategy for Marine Biotechnology (December 2001)

**Position Paper 3:** Navigating the Future – Towards a Marine European Research Area (March 2001)

**Position Paper 2:** Towards a European Marine Research Area (December 2000)

**Position Paper 1:** Establishing a Framework for the Implementation of Marine Biodiversity Research in Europe (May 2000)

**Report:** A European Science Plan on Marine Biodiversity. European Marine & Polar Board (EMaPS) (April 1998)

**Report:** European Initiatives in Science and Technology for Deep-sea Coring and Drilling. European Marine & Polar Board (EMaPS) (June 1997)

**Report:** A Future Step in the Coordination of Marine and POLAR Science in Europe (1995)

### Other Publications, with Marine Board Secretariat's input:

EurOCEAN 2007: Conference Report and Aberdeen Declaration. (Editors: O'Sullivan, G., Angell Hansen, K., Connolly, N.) 17pp. Marine Institute (Ireland) (July 2007)

Investigating Life in Extreme Environments – A European Perspective. 58pp. Joint Marine Board - ESF Report. (Editor: Nicolas Walter) (May 2007)

EurOCEAN 2004 European Conference on Marine Science & Ocean Technology. Conference Proceedings. (Editors: Cieřlikiewicz, W., Connolly, N., Ollier G. & O'Sullivan G.) 420pp. Office for Official Publications of the European Communities (2007)

EurOCEAN 2004 Rapporteurs' Report. (Editors: O'Sullivan, G., Connolly, N., Ollier, G) Marine Institute (Ireland) (2007)

Transdisciplinary Euroconference on Coastal Management Research Extended abstracts volume (December 1997)

Transdisciplinary Euroconference on Coastal Management Research Conference report (December 1997)

Mediterranean Forecasting Grand Challenges for European Cooperation in Forecasting the Behaviour and Characteristics of the Oceans 1996. Conference proceedings. 80pp (October 1996)

European Scientific Strategies for Deep-Sea Drilling Southampton (7-8 November 1996). Conference proceedings (1996)

European Initiatives for New Deep-Sea Drilling Technologies Strasbourg (14-15 October 1996) Conference proceedings (1996)

## List of Meetings Organised by the Marine Board in 2007 (including jointly organised)

8 February 2007

**Marine Board Executive Committee (ExCom) Meeting** (Brussels)

28 February 2007

**3<sup>rd</sup> ERA-NET Forum: Information, best practices exchange** (Brussels)

27 March 2007

**1<sup>st</sup> EurOCEAN 2007 Organising Committee Meeting** (Brussels)

28 March 2007

**Marine Board ExCom Meeting** (Brussels)

17 April 2007

**2<sup>nd</sup> EurOCEAN 2007 Organising Committee Meeting** (Brussels)

19-20 April 2007

**5<sup>th</sup> MarinERA Technical Committee Meeting** (Oslo)

15 May 2007

**3<sup>rd</sup> EurOCEAN 2007 Organising Committee Meeting** (Brussels)

13 June 2007

**4<sup>th</sup> EurOCEAN 2007 Organising Committee Meeting** (Brussels)

20-21 June 2007

**Marine Board Spring 2007 Plenary Meeting** (Aberdeen)

21 June 2007

**5<sup>th</sup> EurOCEAN 2007 Organising Committee Meeting** (Aberdeen)

21 June 2007

**Meeting of the Marine Board Communications Panel Meeting** (Aberdeen)

22 June 2007

**EurOCEAN 2007 Science Policy Conference**

19-20 September 2007

**6<sup>th</sup> MarinERA Technical Committee Meeting** (Helsinki)

26 September 2007

**Marine Board ExCom Meeting** (Brussels)

26 September 2007

**6<sup>th</sup> EurOCEAN 2007 Organising Committee Meeting – Lisbon Conference preparatory meeting** (Brussels)

28 September 2007

**French EU Presidency Event BioMarine 2008 – Meeting with conference organisers** (Brussels)

7 October 2007

**Portuguese EU Presidency Event “The Role of Marine Sciences in Ocean Sustainability and Global Change”** (Lisbon)

9-10 October 2007

**MarinERA workshop “Research fleet management issues at the EU level”** (Brussels)

30-31 October 2007

**Marine Board Autumn 2007 Plenary Meeting** (Athens)

13-14 November 2007

**Marine Board Communications Network Panel** (Brussels)

28 November 2007

**MarinERA and Marine FP6 Networks of Excellence Meeting** (Brussels)

10 December 2007

**3<sup>rd</sup> MarinERA Steering Committee Meeting** (Brussels)

19 December 2007

**Meeting with European Scientific Diving Committee** (Brussels)

## ■ Annex VI. List of Invited Presentations 2007

16 January 2007

**Seminar on Marine Sciences and Technologies in FP7.** Natural History Museum. Niamh Connolly.

30 January 2007

**MarinERA and Marine Board: status and perspectives** ERA-NET meeting, (European Commission – Brussels) Niamh Connolly

9 February 2007

**Marine Board profile to Maritime Policy Task Force** (European Commission - Brussels) Lars Horn, Jan Mees, Niamh Connolly

15-16 March 2007

**FEAP - Profet Policy Aquaculture Conference** (Bergen) Lars Horn

22 March 2007

**ESF-COST Joint Science Foresight Event** (Brussels)

15-20 April 2007

**European Geosciences Union Plenary 2007** (Vienna) Jan de Leeuw

19-20 April 2007

**MarinERA Technical Committee Meeting** (Oslo) Niamh Connolly

24 April 2007

**Marine Board and MarinERA Profile to ICES General Secretary** (Copenhagen) Niamh Connolly, Lars Horn

22 June 2007

**EurOCEAN 2007 Science Policy Conference** (Aberdeen) Lars Horn

2 July 2007

**ESF Meeting of Chairs** (Zurich) Lars Horn

19-20 September 2007

**MarinERA Technical Committee Meeting** (Helsinki) Niamh Connolly

7 October 2007

**Portuguese EU Presidency Conference**  
The role of marine sciences in ocean sustainability and global change (Lisbon) Lars Horn

27 November 2007

**ESF Meeting of Chairs** (Strasbourg) Lars Horn

10 December 2007

**MarinERA Steering Committee Meeting** (Brussels) Niamh Connolly

19 December 2007

**Meeting of Marine Board with European Science Diving Committee** (Brussels) Aurélien Carbonnière

## ANNEX VII. List of contributions

### Member organisations' contributions 2007

Member organisation	Contribution
FNRS, Belgium	4,196.50
FWO, Belgium	4,196.50
FNU, Denmark	8,393.00
AKA, Finland	5,933.00
CNRS, France	11,986.50
Ifremer, France	11,986.50
DFG, Germany	11,986.50
HGF, Germany	11,986.50
HCMR, Greece	7,189.00
Marine Institute, Ireland	7,189.00
CNR, Italy	11,986.50
OGS, Italy	11,986.50
NWO - KNAW, The Netherlands	8,393.00
RCN - IMR, Norway	8,393.00
PAN, Poland	3,595.00
GRICES, Portugal	7,188.50
FCT, Portugal	7,188.50
CSIC, Spain	4,196.50
IEO, Spain	4,196.50
VR, Sweden	8,393.00
TUBITAK, Turkey	4,798.00
NERC - NOCS, UK	23,981.00
<b>Total Contributions received</b>	<b>€189,399</b>



## Annex VIII. List of Acronyms

<b>AKA</b>	Academy of Finland
<b>AMPERA</b>	FP6 ERA-NET project on Marine Accidental Pollution
<b>CAREX</b>	FP7 Coordination Action for Research Activities on life in Extreme Environments
<b>COST</b>	European Cooperation in the field of Scientific and Technical Research
<b>CREST</b>	Scientific and Technical Research Committee of the European Union
<b>DG MARE</b>	DG Maritime Affairs and Fisheries (European Commission)
<b>DG RTD</b>	DG Research and Technological Development (European Commission)
<b>DG</b>	Directorate General (European Commission)
<b>EC</b>	European Commission
<b>EFARO</b>	European Fisheries and Aquaculture Research Organisations
<b>EMaPS</b>	European Marine and Polar Science Boards
<b>EMODNET</b>	European Marine Observation and Data Network
<b>ERA</b>	European Research Area
<b>ERA-NET</b>	European Research Area Network
<b>ESF CEO</b>	European Science Foundation Chief Executive Officer
<b>ESF</b>	European Science Foundation
<b>ESFRI</b>	European Strategy Forum on Research Infrastructures
<b>EU</b>	European Union
<b>EUROCORES</b>	EUROpean COLlaborative RESearch
<b>EuroGOOS</b>	European Global Ocean Observing Systems
<b>FP</b>	Framework Programme (FP96 and FP7)
<b>FTE</b>	Full-Time Equivalent
<b>FEUFAR</b>	Future of European Fisheries and Aquaculture Research
<b>GLOREA</b>	Global Research Area
<b>GOOS</b>	Global Ocean Observing System
<b>HCMR</b>	Hellenic Centre for Marine Research
<b>HERMES</b>	FP6 IP Hotspot Ecosystem Research on the margins of European seas
<b>I3</b>	Integrated Infrastructure Initiative (FP scheme)
<b>ICES</b>	International Council for the Exploration of the Sea
<b>IEEE</b>	Institute of Electrical and Electronics Engineers
<b>Ifremer</b>	French Sea Research Institute
<b>IMARES</b>	Institute for Marine Resources & Ecosystem Studies
<b>IOC</b>	International Oceanographic Commission (UNESCO)
<b>IODE</b>	International Oceanographic Data and Information Exchange (UNESCO/IOC)
<b>IP</b>	Integrated Project (FP scheme)
<b>KNAW</b>	Royal Netherlands Academy of Arts and Sciences
<b>MarinERA</b>	FP6 ERA-NET project on Marine RTD
<b>MEC</b>	Spanish Ministry of Education and Science
<b>NERC</b>	Natural Environment Research Council
<b>NIOZ</b>	Royal Netherlands Institute for Sea Research
<b>NOCS</b>	National Oceanography Centre, Southampton
<b>OES</b>	Oceanic Engineering Society
<b>RCN</b>	Research Council of Norway
<b>RTD</b>	Research and Technological Development
<b>RV</b>	Research Vessel
<b>SC</b>	Steering Committee
<b>SSA</b>	Specific Support Action (FP Scheme)

## Annex VIII. List of Acronyms

<b>TC</b> .....	Technical Committee
<b>TP</b> .....	Technology Platform
<b>UK</b> .....	United Kingdom
<b>UNESCO</b> .....	United Nations Educational, Scientific and Cultural Organization
<b>VLIZ</b> .....	Flanders Marine Institute
<b>WG POL</b> .....	Marine Board Working Group on existing and emerging chemical pollutants in the Marine environment
<b>WG SEAMBOR</b> .....	Marine Board Working Group on Science Dimensions of Ecosystem Approach to Management of Biotic Ocean Resources

## Credit for pictures on the cover

- Marine Board flag; **Marine Board**
- Fulmars in a Force 11 gale, mid Atlantic; **Mick Mackey, 2006**
- Research Vessel Meteor, a Global Research vessel in the sunset; **MARUM / University of Bremen**
- Alvinella pompejana, a deep sea species; **Ifremer**
- Ostend harbor; **VLIZ**
- Marine Board Delegates at the Autumn 2007 Marine Board Plenary Meeting (Athens); **Marine Board**

**FNRS**



Danish Agency for Science  
Technology and Innovation  
Ministry of Science  
Technology and Innovation



Deutsche  
Forschungsgemeinschaft  
**DFG**



**GRICES** Gabinete de Relações Internacionais da Ciência e do Ensino Superior  
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR



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