

# ANNUAL ACTIVITY REPORT



2008

## Marine Board-ESF

The **Marine Board-ESF**, established in 1995, facilitates enhanced cooperation 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 2008, the Marine Board represents 30 Member Organisations from 20 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:** to bring 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:** to foster 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 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 Marine Board's activities are reviewed every five years by an external panel of globally renowned experts.



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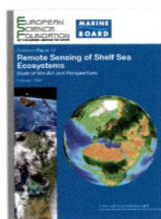
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# Marine Board Highlights 2008



## January

**Marine Board WG Pollutants kick-off** (28-29 January, Brussels)

**Marine Board Executive Secretary represents Marine Board** at ECORD-net Deep-Sea Frontier Initiative Steering Committee Meeting (28-29 January, Berlin)

## February

**Marine Board Position Paper 12** *Remote Sensing of Shelf Sea Ecosystems*

**Marine Board – EuroGOOS Vision Group on EMODNET kick-off** (18 February, Brussels)

## March

**Marine Board Chair**

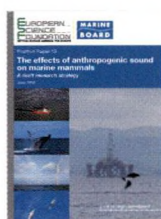
**Lars Horn represents Marine Board** at ESF Chairs Meeting (5 March, Paris)

## April

**Marine Board WG SEAMBOR kick-off** (17 April, Brussels)

**Marine Board organises Aberdeen+ Interest Group Meeting** (2 April, Brussels)

**Marine Board organises 4<sup>th</sup> ERA-NET Forum** (3 April, Brussels) Photo: Mick Mackey



## May

**1<sup>st</sup> Marine Board Forum** *Marine Data Challenges: from Observation to Information* (15 May, Ostend)

**Marine Board Spring 2008 Plenary Meeting** (13-14 May, Ostend)

**Official Inauguration of Marine Board offices at InnovOcean** (14 May, Ostend) Photo: Misjel Decler

## June

**Marine Board Position Paper 13** *The Effects of Anthropogenic Sound on Marine Mammals*

**Final EU FEUFAR Workshop** (10 June, Crete)

## July

**Marine Board Communications Panel session** at ESOF 2008 (21 July, Barcelona)

## August

**Marine Board Executive Secretary represents Marine Board** at the Irish Marine Institute (15 August, Galway)

**EU FEUFAR project is completed** on 31 August. Final report submitted to the Commission in September 2008.

Photo: Claire Riordan



## September

**EU MarinERA TC (8) Meeting** (16-17 September, Majorca)

**EU MarinERA project announces five successful collaborative research projects** (Grant-aid: €4.6M)

## October

**Marine Board-EuroGOOS Vision Document on EMODNET** presented to Commissioner Borg (24 October, Marseille)

**Marine Board Autumn 2008 Plenary Meeting** (20-21 October, Toulon)

**Marine Board on the Steering Committee of Biomarine 2008** (20-24 October, Marseille and Toulon)

## November

**MarinERA publication 7** by the Marine Board *Future Looks: Strategic Analysis for New Activities*

**Marine Board Chair Lars Horn represents Marine Board** at ESF Science Conference and General Assembly (26-28 November, Stockholm)

## December

**Marine Board European Scientific Diving Panel kick-off** (5 December, Brussels)

## Message from the Chair



As is evident from our Annual Activity Report, the Marine Board continued to strengthen its role throughout 2008 as a platform to develop marine research priorities and policies for both research performing and research funding organisations throughout Europe. The production

of four publications on topics as diverse as *Remote Sensing of Coastal and Shelf Seas* (Position Paper 12), *Impacts of Anthropogenic Sound on Marine Mammals* (Position Paper 13), *EMODNET* (Vision Document), *Strategic Analysis for New Activities* (MarinERA Publication 7) and the 2007 Marine Board Annual Activity Report was a major accomplishment of the Marine Board in 2008.

Recognition of the Marine Board's role as a reputable think-tank for stimulating and developing policy at the European level is evident from, *inter alia*: the doubling of the Member Organisations' financial investment, approved requests for membership from four new Member Organisations (to a total of 30 Member Organisations from 20 European countries), and the record number of 37 meetings organised by the Marine Board Secretariat in 2008.

Without doubt, the most important highlight in 2008 was the Official Inauguration of our new Marine Board offices at the InnovOcean site in Ostend, provided to the Board by the Flemish Government. During the inauguration ceremony, the new office plaque was unveiled in the presence of Mr Koen Verlaeckt, Secretary-General of the Flemish Department of Foreign Affairs and Dr John Marks, ESF Director of Science and Strategy. I would like to thank in particular Dr Rudi Herman, Senior Researcher at the Flemish Department of Economy, Science and Innovation, for his support in making the move to Ostend a reality.

2008 also saw the organisation of the 1<sup>st</sup> Marine Board Forum (15 May, Ostend). The 1<sup>st</sup> Forum *Marine Data Challenges: from Observation to Information* was attended by circa 100 participants and deemed a major success, setting a high standard for future marine and maritime science fora.

The other important development of 2008 was the European Commission's publication in September of *A European Strategy for Marine & Maritime Research*. This publication is the embodiment of the science pillar of the *Integrated Maritime Policy for the European Union* (October 2007) and the tool to deliver a "dynamic maritime economy, in harmony with the environment and supported by excellence in marine science and technology".

This concept has been a major message and objective of the Marine Board since its establishment in 1995, and has been nurtured by the Marine Board through its role in organising and participating in initiatives such as the EurOCEAN Conferences in Hamburg (2000), Galway (2004) and Aberdeen (2007), the Galway and Aberdeen Declarations, and in producing Strategic Position Papers such as the Navigating the Future Series (2001, 2003, 2006). It is satisfying to see the recommendations from the marine science community, as voiced by the Marine Board, reflected in the new strategy.

Partnership is one of the key enablers of the European Strategy for Marine and Maritime Research. In 2008, the Marine Board strengthened its cooperation with other organisations, including producing a *Vision Document on the European Marine Observation and Data Network* (EMODNET) with EuroGOOS, and contributing to the FEUFAR Report *The Future of European Fisheries and Aquaculture Research* with a consortium of European fisheries and aquaculture research centres. The Marine Board maintained the momentum of the EurOCEAN 2007 Science Policy Conference by establishing the Aberdeen+ Interest Group, which will aim at investigating options to make concrete the concept of the Marine and Maritime Science Partnership. With five Working Groups and Panels of experts in operation

## ■ Message from the Chair

in 2008, the Board secured the foundations for the development of highly relevant strategic advice in the years to come.

Finally, on behalf of the Board, I would like to thank the Secretariat for their continued hard work, dedication and high level of professionalism. Their work is highly appreciated. As Dr Niamh Connolly will leave us early 2009, special thanks goes to her. Her dedication, experience and insight have been instrumental to the Marine Board's success.



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

## Executive Scientific Secretary's Report



The first year of operation from the Secretariat's extensive new facilities at the InnovOcean site in Ostend represented an exceptional year for the Marine Board. With five full-time staff members at the Secretariat for the first time, the level of activity in 2008 almost doubled that of

2007, following the increasing trend of recent years. This is evidence of the Secretariat's commitment to deliver both on the decision of the Board to relocate to Ostend, and on the substantial investment of the Government of Flanders in providing the facilities.

The Marine Board increased its interactions with other organisations in 2008, evident from the 40 invited presentations given at a broad range of meetings. 2008 also represented a peak in the Marine Board's foresight role, with five Working Groups and Panels of experts in operation, including two new Working Groups: the *Working Group on Chemical Pollutants* (WG POL), and the *Working Group on Science dimensions of Ecosystem Approach to Management of Biotic Ocean Resources* (WG SEAMBOR), the latter is co-chaired by an ICES representative. The Vision Group established in association with EuroGOOS produced a Vision Document on the *European Marine Observation Data Network* (EMODNET). The launch of the EMODNET Vision Document included its presentation to Commissioner J. Borg responsible for Maritime Affairs and Fisheries during the French EU Presidency Conference BioMarine 2008 (24 October 2008, Marseille). The publication was formally welcomed by EC DG MARE's Director General F. Fotiadis, and has provided input into the EC Advisory group on EMODNET (MODEG), and associated EMODNET Roadmap. The affiliation of the *European Scientific Diving Panel* to the Marine Board was approved in 2008, while the *Marine Board Communications Panel* organised a highly successful debate at the EuroScience Open Forum (ESOF) 2008 on the interactions between marine scientists and the media (21 July 2008, Barcelona).

The Secretariat produced and edited five publications in 2008: the 2007 Marine Board Annual Activity Report; *Remote Sensing of Coastal and Shelf Seas* (Position Paper 12), *Impacts of Anthropogenic Sound on Marine Mammals* (Position Paper 13), *EMODNET* (Vision Document), and *Strategic Analysis for New Activities* (MarinERA Publication 7). More than 5,000 copies of Marine Board publications were actively disseminated, including distribution at 16 conference booths. The Secretariat produced official statements in response to three European Commission consultations on: Renewable Ocean (Wind) Energy, WISE-Marine, and Invasive Alien Species. The Secretariat also produced 12 press-releases highlighting publications and key events.


Coinciding with the inauguration of the Secretariat's new facilities at the InnovOcean site in May 2008, the Marine Board organised and hosted six events during a week of meetings and workshops. This included the first in a planned series of Marine Board Fora. The level of interest in, and the successful delivery of this 1<sup>st</sup> Marine Board Forum *Marine Data Challenges: from Observation to Information*, with 16 leading expert speakers, and representatives from 50 organisations (marine and maritime networks, intergovernmental organisations, three departments of the European Commission), emphasised the role and reputation of the Marine Board. This central position in marine research policy issues was acknowledged during the inauguration ceremony speech by the representative of the European Commission (Kathrine Angell-Hansen, DG MARE), when she referred to the challenging role that the Marine Board willingly adopted in response to the development of the European Maritime Policy, bringing together marine and maritime knowledge communities, to speak with one voice across their sectors.

As this is my final Annual Activity Report as Executive Scientific Secretary for the Marine Board (having served seven years), I take this opportunity to thank the Marine Board Member Organisations and Delegates for their commitment to, and investment in, the concept and purpose of the Marine Board, and the Chair and



## Executive Scientific Secretary's Report

Executive Committee for their continuous involvement and support to the Secretariat in delivering the Board's objectives. The Marine Board experienced extensive development and increased recognition during this period. The professional delivery of output on behalf of the Board has only been possible by the enormous commitment from the team at the Secretariat. I take this opportunity to thank each of them - Aurélien Carbonnière, Maud Evrard, Dina Eparkhina and Jan-Bart Calewaert - for their individual efforts, enthusiasm and perseverance throughout.



*Dr Niamh Connolly  
Executive Scientific Secretary  
Marine Board-ESF*

## Marine Board Structure and Organisation

The Marine Board, established in 1995, is an association of 30 Marine Research Organisations from 20 European countries. Marine Board Member Organisations are major national marine scientific institutes, funding agencies and research councils (Annex I). The main aim of the Marine Board is to facilitate cooperation between its Member Organisations and promote the profile and development of marine science in Europe.

**Plenary Meetings** are held twice yearly in spring and autumn to decide on activities and plan collaborative initiatives. The Marine Board Secretariat is funded through Marine Board Member Organisations' contributions, and external contracts.



Marine Board Delegates at the Spring 2008 Marine Board Plenary Meeting (13-14 May 2008, Ostend)

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, the Head of the Marine Board Secretariat, is also a member of the Executive Committee.

The Executive Committee Members (2008) are:



**Lars Horn**  
(May 2006 – May 2011, re-elected in May 2009)



**Jan De Leeuw**  
(May 2004 – May 2009, re-elected in 2007)



**Antoine Dosdat**  
(May 2007 – May 2010)  
(photo: European Commission)



**Ed Hill**  
(May 2007 – May 2010)



**Jan Mees**  
(May 2006 – May 2011, re-elected in May 2009)



**Kostas Nittis**  
(May 2006 – May 2009)



**Geoffrey O'Sullivan**  
(October 2008 – October 2011)



**Niamh Connolly**  
(Marine Board-ESF since 2002)

## Marine Board-ESF Structure & Organisation

The Marine Board **Secretariat** develops activities on behalf of the Marine Board. The Secretariat (2008) includes three Science Officers and one Administrator, headed by the Executive Scientific Secretary, totalling five FTE paid for by the Member Organisations and external contracts.

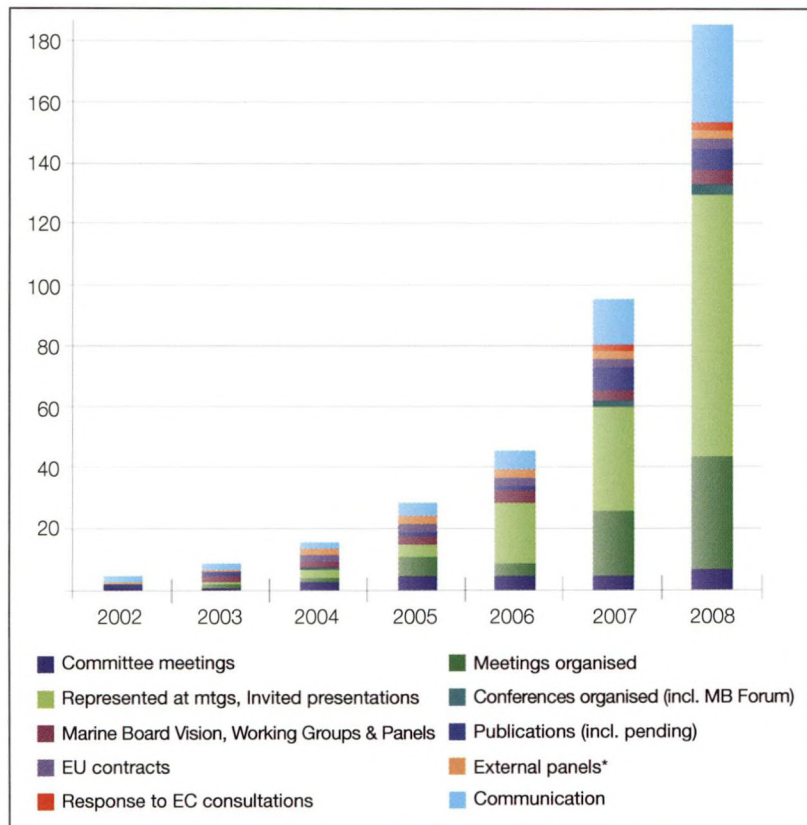


The Marine Board Secretariat in front of the sea harbour in Ostend (from bottom left clockwise): Dina Eparkhina (Administrator), Jan-Bart Calewaert (Science Officer), Niamh Connolly (Executive Scientific Secretary), Maud Evrard and Aurélien Carbonnière (Science Officers).

## The Marine Board in a nutshell

### Marine Board Activities

In 2008, Marine Board activities further increased in comparison with previous years, almost doubling in productivity.



\*Including: HERMES (SPP), Waterborne TP (Observer), Biomarine (SC)

Marine Board Secretariat level of activities (2002-2008)

### Marine Board 2008 in figures

Member Organisations	<b>30</b>
Member Countries	<b>20</b>
New Member Organisations 2008	<b>4</b>
Meetings organised (including jointly organised)	<b>37</b>
Presentations to Meetings	<b>40</b>
Meetings at which the Marine Board was represented	<b>86</b>
Position Papers and publications edited and published	<b>5</b>
Responses to EC consultations submitted	<b>3</b>
Press Releases issued	<b>12</b>
Conference booths participated at	<b>16</b>
Number of Secretariat FTEs (including FP6 contracts)	<b>5</b>

### Marine Board key uptake and impact in 2008

- Waterborne<sup>TP</sup> invited Marine Board as partner in its FP7 EMAR<sup>2</sup>RES project proposal (project awarded in 2009)
- Marine Board invited as Observer to EC KBBE-Net Collaborative Working Group on Marine Biotechnology
- Commissioner Borg acknowledges Marine Board's "valuable contribution" to developing the European Strategy for Marine and Maritime Research
- Director General Fotiadis thanks Marine Board: EMODNET publication "extremely useful"
- 1<sup>st</sup> Marine Board Forum feeds into EC initiatives in the realm of EMODNET and Marine Spatial Planning
- Funding secured for Marine Biotechnology Conference in 2010
- US Navy, Royal Dutch Navy, and UK DEFRA take up Marine Board Position Paper 13's recommendations
- National Marine Programme Committees take up Marine Board's MarinERA Publication 7's foresight recommendations
- MarinERA call: € 4.6M funding for five projects
- External Marine Board contracts secured (EMAR<sup>2</sup>RES): € 180 K
- Extension of MarinERA project secured funding: € 220 K

### Marine Board Plenary meetings

Marine Board Plenary Meetings, held twice a year in spring and autumn, provide a platform for Marine Board Member Organisations to reflect and agree on topical marine science and technology issues, and propose future strategic actions. During these meetings, Marine Board Delegates benefit from interactions with each other, with invited speakers and guests, as well as with Marine Board Observers from the European Commission's DG RTD and DG MARE.



Marine Board Delegates at the Autumn 2008 Plenary Meeting (20-21 October, Toulon) (Photo: Misjel Decler)

The **Spring 2008 Plenary Meeting** (13-14 May, Ostend, Belgium) formally approved membership applications from the University of Bergen (UiB - Norway), the Leibniz Institute of Marine Sciences (IFM-GEOMAR - Germany), and the National Institute for Marine Research and Development "Grigore Antipa" (INCDM - Romania). The Spring Plenary was held in Ostend (hosted by VLIZ - Belgium) to coincide with the 1<sup>st</sup> Marine Board Forum and the Official Inauguration of the Marine Board's facilities at the InnovOcean site.

The **Autumn 2008 Plenary Meeting** (20-21 October, Toulon, France), approved a membership application from the Centre of Marine and Environmental Research (CIMAR - Portugal), and offered observer status to the Interuniversity Institute for Marine Sciences in Eilat (IUI - Israel). Geoffrey O' Sullivan (Irish Marine Institute) was formally elected as a vice-Chair of the Marine Board. The Autumn Plenary (hosted by Ifremer - France) was held in Toulon, back to back with the French EU Presidency event BioMarine 2008.

A full list of Marine Board Member Organisations, Delegates and Observers can be found in Annex I.

### Marine Board Biennial Fora

The 1<sup>st</sup> Marine Board Forum took place on 15 May 2008 at the Marine Board facilities in Ostend. The topic of the Forum, *Marine Data Challenges: from Observation to Information*, found a resonance among the scientific community and policy officers and was considered very timely, especially with regard to the development of the European Marine Observation Data Network (EMODNET) initiative. Circa 100 representatives from 50 organisations took part, including representatives from oil, gas and shipping industries (Total, Shell and Waterborne TP), the European Commission (DGs RTD, MARE and ENV), international organisations (IOC), and Flemish Government officials.



1<sup>st</sup> Marine Board Annual Forum (15 May, InnovOcean site, Ostend) (Photo: Misjel Decler)

The Forum received media coverage with two articles in Research Europe, a podcast featuring an interview with Lars Horn (Marine Board Chair), several press releases, as well as publications on partners' websites.

Under the moderation of Geoffrey O'Sullivan (Irish Marine Institute) and Kostas Nittis (MedGOOS) four key challenges were identified:

- i. Make the necessary observations, recognising that much of the ocean is under-sampled and that monitoring is expensive, technically challenging and requires a long-term, sustained commitment;
- ii. Store the observation data with associated quality control and metadata;
- iii. Make the observation data accessible;
- iv. Produce the information and services required at local, regional, European and global scales that meet identified commercial, societal, and environmental needs in a cost-efficient way.



1<sup>st</sup> Marine Board Forum: Kostas Nittis, Hans Dahlin, Jean-François Minster and Alan Edwards (15 May 2008, Ostend) (Photo: Misjel Decler)

Speakers at the Forum included Alan Edwards (DG RTD), Jean-François Minster (Total S.A.), Hans Dahlin (EuroGOOS), Peter Pissierssens (UNESCO/IOC Project office for IODE), Carlo Heip (MarBEF and NIOZ), Dick M.A. Schaap (MARIS/SeaDataNet), Antoine Dosdat (Ifremer), Michael Diepenbroek (MARUM), Gerd Hubold (ICES), Violeta Vinceviciene (DG ENV), Willem Laros (Waterborne TP), Laurent d'Ozouville (EurOcean), Chris Shaw (OGP and Shell International), and Iain Shepherd (DG MARE).

The Proceedings of the 1<sup>st</sup> Marine Board Forum (May 2009), and all the presentations are downloadable from the Forum webpage.

Web: [www.esf.org/marineboard/forum](http://www.esf.org/marineboard/forum)



1<sup>st</sup> Marine Board Forum. Welcome address by Lars Horn (15 May 2008, Ostend) (Photo: Misjel Decler)

## Marine Board Vision Groups

In order to best support the policy-making process and to be at the forefront of initiatives in the marine research domain, the Marine Board establishes *ad hoc* groups of key European experts to investigate crucial scientific issues of strategic importance with the aim of developing a focussed Vision Document in a short time span. The resulting Vision Document is published in an attractive format to be widely distributed among groups of stakeholders (decision makers, civil society, and scientists).

In 2008, the Marine Board, in association with EuroGOOS, established a **Vision Group on the European Marine Observation and Data Network (EMODNET)** to prepare a Vision Document to profile EMODNET as “an end-to-end, integrated and interoperable network of systems of European marine observations and data communications, management and delivery systems, supported by a comprehensive user oriented toolkit to enable implementation of the Integrated Maritime Policy for Europe” (see Membership of Vision Group on EMODNET in Annex II).

## Marine Board Working Groups

Marine Board Working Groups (WG) (see Annex III) gather key European experts to address specific topical issues identified by the Board as warranting expert assessment and foresight. A Working Group is established for a 12- to 18-month period usually resulting in a strategic Position Paper. To date (2008) the Marine Board has produced 13 Strategic Position Papers (see list of Marine Board publications in Annex V).

In 2008, on-going Working Groups include:

- **Risk Assessment and Monitoring of Existing and Emerging New Chemicals in the European Marine and Coastal Environment** (WG POL);
- **Science dimensions of Ecosystem Approach to Management of Biotic Ocean Resources** (WG SEAMBOR).

## Marine Board Panels

Marine Board Panels are established on an open-end basis to address operational issues in areas where the panel members, and by extension their institutions, benefit from interacting with each other (see list of Marine Board Panel Members in Annex IV).

Active Marine Board Panels (2008) include:

- **Marine Board Communications Panel (MBCP)**, established in 2002, consists of professional science communicators from 11 marine organisations and aims to mutually assist its members in promoting and communicating marine science across Europe and exchanging ideas on events, communication methods and best practice.

In 2008, the MBCP organised a very successful session on communicating marine science at the EuroScience Open Forum (ESOF) 2008 (21 July, Barcelona). Speakers from Germany, Ireland, Norway, Poland and the UK shared their experience and perspectives with scientists and journalists. The session received logistical support from the Total Foundation for Biodiversity and the Sea.



John Joyce (MBCP Chair) presents at ESOF 2008 (21 July, Barcelona)



Water sampling  
(Photo: Giorgio Caramanna, University of Rome)

- **The Marine Board European Scientific Diving Panel (MB ESDP)** was launched on 5 December 2008, Brussels. The Panel aims at networking and exchanging knowledge and best practices in the field of scientific diving, and promoting it as a relevant research tool in support of management initiatives.

The Marine Board European Scientific Diving Panel aims to:

- Emphasise the best methods of observation and monitoring of the littoral and coastal environment, and management of the collected data;
- Initiate and develop synergies, and to fill in gaps with other scientific techniques through networks (e.g. OFEG, ERVO);
- Facilitate a pan-European framework that encourages sectoral best practice;
- Promote links with industry;
- Promote links with interdisciplinary research in the marine environment.

## Synergy

One of the principal objectives of the Marine Board is to foster European added-value in national and regional programmes and to promote synergy with regional and international programmes.

### Marine Board at InnovOcean

2008 was the first year the Marine Board Secretariat made full use of its new facilities at the InnovOcean site in Ostend. **The Official Inauguration of the Marine Board facilities in Ostend** marked an important step towards strengthening links and improving interactions with other key marine research networks and institutions and relevant policy groups, some of which are located at the InnovOcean site or have representation in Brussels. The Inauguration attracted over 120 guests from 54 organisations (research councils, agencies, FP projects, EC, as well as individual scientists, and Flemish authorities).



Inauguration of the Marine Board offices at the InnovOcean site (14 May 2008, Ostend). From left to right: Jan Mees (VLIZ, Marine Board), Kathrine Angell-Hansen (DG MARE), Rudy Herman (EWI - Flemish Government), John Marks (ESF), Niamh Connolly (Marine Board), Koen Verlaeckt (Flemish Department of Foreign Affairs), Lars Horn (Marine Board), Jean-François Minster (Total S.A.). (Photo: Misjel Decler)

In her speech at the inaugural ceremony, Kathrine Angell-Hansen (DG MARE) accentuated that InnovOcean is *"a demonstration of the changing world, the location being turned into an office to serve the marine knowledge economy through amongst others hosting ESF-Marine Board"*. She also pointed out *"a valuable contribution [of the Marine Board] facilitating for the various stakeholders in the marine and maritime knowledge communities to come together, work together on equal terms and start making common priorities and goals on how the partners could best support the maritime policy development and speak with one voice across their sectors"*.



Guests at the Official Inauguration of the Marine Board facilities in Ostend, Belgium (Photo: Misjel Decler)

The relocation of the Marine Board Secretariat to the InnovOcean site stimulates the generation of new scientific and policy ideas, increases the pool of expertise and the exchange of best practices. The facilities provided by the Flemish Government enable the Secretariat to regularly organise and host European and regional workshops and conferences. This already materialized in the year 2008 during which the Marine Board organised and hosted 12 meetings and events at InnovOcean. The success of the Inauguration of Marine Board Offices and the 1<sup>st</sup> Marine Board Forum illustrated the added-value of collaboration within the InnovOcean site, receiving support from UNESCO/IOC Project Office for IODE and the Flanders Marine Institute (VLIZ).



## Marine Board Framework Programme Activities

In 2008, the Marine Board was an active partner in a number of high profile synergistic activities.

### MarinERA



The FP6 ERA-NET MarinERA (2004-2009) is a network of 16 Marine Research Funding Organisations in 13 countries established to facilitate collaboration between national and regional marine RTD programmes in Europe. The Marine Board is Deputy Coordinator of MarinERA (Ifremer – France is Coordinator), and provides the project Secretariat.

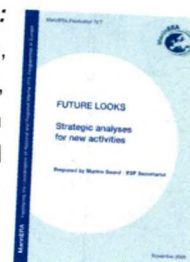
In 2008, MarinERA key achievements include:

- **MarinERA Call for Proposal *Regional Drivers of Ecosystem Change*:** Five collaborative research projects across five countries received funding totalling € 4.6 million.
- **MarinERA Databases:**
  - Database of nationally funded projects <http://marinedb.marinera.net/>
  - Atlantic Marine Research Centre Database <http://marineinstitutes.marinera.net/>
- **MarinERA Regional Workshops:**
  - Baltic Workshop (15-16/04/2008, Tallinn, hosted by Estonian Science Foundation);
  - Atlantic Workshop (27-28/05/2008, Oslo, hosted by Research Council of Norway);
  - Mediterranean and Black Sea Workshop (4-5/06/2008, Athens, hosted by Hellenic Centre for Marine Research).

The Workshops aimed to update the MarinERA Databases, and explore opportunities for future cooperation. Marine Board acting as the MarinERA Secretariat, co-organised those workshops with the Irish Marine Institute, and BONUS for the Baltic Workshop.

- **MarinERA Publication 7 *Future Looks: Strategic Analysis for New Activities*,** prepared and edited by the Marine Board, identifies current and future research priorities, from science to management and policy, on a national and pan-European level.

MarinERA website: [www.marinera.net](http://www.marinera.net)



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

### AMPERA

The FP6 ERA-NET AMPERA (2005–2009) is a consortium of ten partners from nine European countries aiming 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, through the organisation of annual fora on specific topics of interest. AMPERA is coordinated by the Spanish Ministry of Science and Innovation (MICINN).

In 2008, AMPERA key achievements include:

- **4<sup>th</sup> Marine / Environmental ERA-NET Forum,** organised by the Marine Board (3 April 2008, Brussels) focused on the regional dimension in the ERA. It informed the subsequent preparation of the future marine ERA-NET project based on the sea-basins approach and enabled to highlight the new EC marine and maritime vision on regional priorities.

The Forum was attended by 25 participants representing 20 different research funding organisations and EC DGs.

- **1<sup>st</sup> AMPERA transnational Call for Proposals,** launched in May 2007, resulted in approval of six projects for funding totalling € 2.25 million. A kick-off meeting, with the participation of all principal investigators took place on 30 September 2008, Oslo.

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

## FEUFAR

FEUFAR (Future of European Fisheries and Aquaculture Research) (2007–2008) is an FP6-funded Specific Support Action (SSA), coordinated by IMARES (the Netherlands). The objective of FEUFAR is to develop an agenda defining the research required in the medium term (ten years) to enable a sustainable exploitation and farming of aquatic resources. The Marine Board provided its expertise to address marine science as whole in the frame of that project, in particular in support of the workshops.

In 2008, FEUFAR key achievements include:

- **FEUFAR publication *Future of European Fisheries and Aquaculture Research*** (September 2008) - Marine Board's contribution as Consortium Partner.
- **The final FEUFAR Workshop** (17-18 June 2008, Crete) focused on translating future scenarios for development of the fisheries and aquaculture sector into research needs. The Marine Board invited experts and ran parallel work sessions at this Workshop.

The project was completed in August 2008. The final report of FEUFAR was presented at the European Parliament (09/09/08, Brussels) and submitted to- and formally welcomed by the Commission.

FEUFAR website: [www.feufar.eu](http://www.feufar.eu)

## Marine and Maritime Science Partnerships

### • Towards an Integrated Marine and Maritime Science Community (MARCOM+)

As a follow-up to the Aberdeen Declaration (2007) and the European Strategy for Marine and Maritime Research (Communication, September 2008), the European Commission launched a call under FP7, to support the establishment of a Marine Partnership Forum that would contribute to developing interactions between partners (Member States, the research community, industry and other stakeholders) *inter-alia* the development and implementation of an ambitious European strategy and programme on marine and maritime research to support the future European Integrated Maritime Policy.

Throughout 2008, the Marine Board worked in cooperation with other representative organisations (the Aberdeen+ Interest Group and subset Task Force) to prepare a proposal entitled MARCOM+. If granted the project would investigate options for such a Partnership Forum.

### • Cooperation between the Communities of European MARine and MARitime REsearch and Science (EMAR<sup>2</sup>RES)

Resulting from earlier collaborations during the influential EurOCEAN conference series and the Lisbon 2007 Conference, the Marine Board was invited by the maritime research community to participate in the FP7 proposal EMAR<sup>2</sup>RES.

The FP7 Support Action EMAR<sup>2</sup>RES involves, as consortium partners, the European Associations representing the major waterborne R&D stakeholders and the Marine Board, as key representative of the Marine Science Research Community. The proposal was developed to investigate and develop cooperation between Marine and Maritime Research Communities with a focus on

## Synergy

Maritime Transport (Coordinator: CESA). The project is to set up an appropriate, efficient and streamlined cooperation framework to realise the concept of sustainable development (in the context of climate change) while achieving the Lisbon agenda.

This framework would be developed by identifying:

- Areas of common interest;
- Areas of possible synergies (between stakeholders, funding programmes or specific policies);
- Possible structures for long lasting cooperation and potential integration operational feasibility and economical sense should be used along with environmental and social impacts to properly assess the overall impact of particular policy/political decisions.

The EMAR<sup>2</sup>RES Work Packages will be addressing a regular set of deliverables over the 28-month period of the project. The project is due to start autumn 2009 with a total budget of € 500,000.



Merchant shipping activities have increased considerably over the last 25 years.  
(Photo: Dan Barnes)

## Marine Board publications

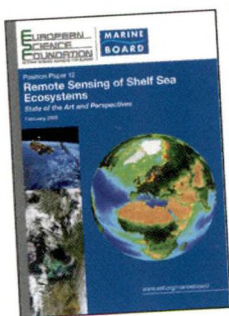
The Marine Board produces various publications in response to developments at regional and European scales. The Marine Board publications include strategic reports (Marine Board Position Papers), Marine Board responses to EC consultations, Vision Documents and forum / conference proceedings. All Marine Board Position Papers are subject to external peer review and review by the ESF.



In 2008, the Marine Board published two new strategic Position Papers and one Vision Document.

### Marine Board Position Paper 12 *Remote Sensing of Shelf Sea Ecosystems* (February 2008)

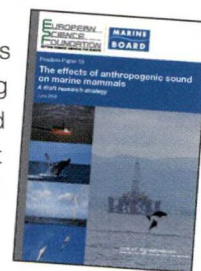
This report provides an overview of the research and infrastructure needs and future scientific challenges associated with remote sensing of shelf sea ecosystems. The context for the output of the Working Group, coordinated by the Marine Board Secretariat, is the increasingly urgent requirement for regular monitoring of shelf sea ecosystems in order to meet international treaty obligations for protecting the health status of European coastal waters.



Official launch of Position Paper 12 at the 1<sup>st</sup> Marine Board Forum on 15 May 2008, Ostend. From left to right: Jan-Bart Calewaert (Marine Board), Lars Horn (Marine Board Chair), Kevin Ruddick (Remote Sensing WG Member), Alan Edwards (DG MARE) and Niamh Connolly (Marine Board). (Photo: Misjel Decler)

### Marine Board Position Paper 13 *The Effects of Anthropogenic Sounds on Marine Mammals* (June 2008)

This report is based on the activities and proceedings of a Working Group on anthropogenic sound and marine mammals convened at a joint Marine Board and National Science Foundation (US) Workshop (4-8 October 2005, Oxford) with logistical and financial support from the Marine Board, and coordinated by the Marine Board Secretariat. The report recommends the use of a four-step analytical risk framework process adapted to the issue of marine mammals and anthropogenic sound to assess and identify priority research topics for reducing uncertainty. Position Paper 13 was welcomed by the scientific community: its recommendations have been taken up by the research programmes of US Navy, Royal Netherlands Navy, and UK DEFRA.



### Marine Board - EuroGOOS Vision Document on EMODNET (September 2008)

In 2008, Marine Board published its first Vision Document in association with EuroGOOS.

Further to the Aberdeen Declaration (June 2007), supporting the European Marine Observation and Data Network (EMODNET) initiative, a joint Marine Board - EuroGOOS short-term Vision Group was established to prepare a Vision Document emphasising the critical



importance of finding an appropriate balance between *in-situ* data collection, data management and processing, and public access and dissemination.

The Vision Group, facilitated by the Marine Board Secretariat, produced a Vision Document addressing what an integrated inter-operable marine monitoring and observation system might look like in the next five to ten years. The Vision Document was launched at a dedicated session organised by the Marine Board Secretariat with Commissioner Joe Borg during the French EU Presidency Event Biomarine 2008 (24 October 2008, Marseille) and was formally welcomed by DG MARE's Director General Fokion Fotiadis.

### Other publications:

In 2008, Marine Board also published

- **Marine Board Annual Report 2007**
- **MarinERA Publication 7 *Future Looks: Strategic Analysis for New Activities*** (November 2008) (Also, see p. 9)

An overview of Marine Board publications can be found in Annex V.

Web: [www.esf.org/marineboard/publications](http://www.esf.org/marineboard/publications)

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

## A European Strategy for Marine and Maritime Research

In September 2008, the Commission published the *European Strategy for Marine and Maritime Research: A coherent European Research Area framework in support of a sustainable use of oceans and seas*. The Research Strategy is one of 65 key actions designed to support the implementation of the *Integrated Maritime Policy for the European Union* (October 2007).

The Marine Board welcomed the Strategy as an essential initiative supporting the aims and objectives of the Integrated Maritime Policy, namely “*the development of a dynamic maritime economy in harmony with the environment supported by sound marine science and technology*”. The Marine Board, through EurOCEAN 2004 (Galway) and 2007 (Aberdeen) conferences, various submissions and strategic Positions Papers, provided key inputs into the development of this Strategy.

## Marine Board responses to EC consultations

In 2008, the Marine Board prepared scientific responses to three European Commission’s consultations:

- *EU action to promote offshore wind energy;*
- *WISE-Marine;*
- *Invasive Alien Species – A European concern.*

Web: [www.esf.org/marineboard/statements](http://www.esf.org/marineboard/statements)



The comb jelly or sea walnut (*Mnemiopsis leidyi*) originally native to the western Atlantic coastal waters was accidentally introduced to the Black Sea in the early 1980s where it had a catastrophic effect on the entire ecosystem. (Photo: European Commission)



Official launch of Marine Board-EuroGOOS Vision Document on EMODNET. From left: Maud Evrard and Niamh Connolly (Marine Board), Commissioner Joe Borg (DG MARE), Lars Horn (Marine Board), Director General Fokion Fotiadis (DG MARE), Geoffrey O’Sullivan (Irish Marine Institute). (Photo: European Commission)

## BioMarine 2008

The French EU Presidency Event BioMarine 2008 (20-24 October, 2008) provided an international forum that brought together business, science, government, civil society and media to advance ocean sustainability. The Marine Board was represented on the BioMarine Steering Committee and suggested speakers and sessions to the conference. Lars Horn (Marine Board Chair) presented the Marine Board views on the marine and maritime partnership perspectives during a parallel session organised by Ifremer - France.

The BioMarine 2008 provided an appropriate venue to present the Marine Board - EuroGOOS Vision Document on EMODNET to Commissioner Joe Borg and Director General Fokion Fotiadis, who welcomed the publication.

## Communication

In 2008, the Marine Board Secretariat highlighted the Board's key events and activities through:

- **Conference booths:** Marine Board strategic publications were represented at 16 Conference booths (Annex VIII);
- **Newspaper articles:** two articles in Research Europe (15/05/2008 and 20/05/2008) covered the success of the 1<sup>st</sup> Marine Board Forum;
- **Web lifecast** of the 1<sup>st</sup> Marine Board Forum was available on the day (15 May, 2008);
- **Web podcast** featuring interview with Lars Horn (Marine Board Chair) on the occasion of the 1<sup>st</sup> Marine Board Forum (available on Marine Board website);
- **Press releases:** 12 Press releases prepared by the Secretariat, were published on the ESF front webpage;
- **Leaflet** was produced by the Secretariat for the MBCP session at ESOF 2008;
- **Website:** [www.esf.org/marineboard](http://www.esf.org/marineboard).

In 2008, the Marine Board Secretariat provided inputs to the following ESF Communication instruments:

- **ESF Newsletters** to the Member Organisations (May and October 2008);
- **About ESF 2008, 2009;**
- **ESF Annual Report 2007;**
- **ESF At Glance** (September 2008).



Marine Board publications booth at the InnovOcean site, Ostend.



Poster panels, computer simulations and a dummy Argo float at the Marine Board Inaugural Exhibition (Ostend, May 2008)

## Marine Board Inaugural Exhibition

On the occasion of the inauguration of the new Marine Board facilities (14 May 2008, Ostend) and the 1<sup>st</sup> Marine Board Forum, the Marine Board Secretariat organised an exhibition illustrating marine research activities in various fields such as marine biodiversity and biotechnology, impacts of climate change on European seas and coastal areas, remote sensing and marine data management. The exhibition was created with contributions from various partner organisations and projects including: Census of Marine Life (CoML), Partnership for Observation of the Global Oceans (POGO), Marine Board Member Organisations and partners, the European Commission - DG RTD, the European Seafloor Observatory Network (ESONET), Hotspot Ecosystem Research on the Margins of European Seas (HERMES), UNESCO IOC's International Oceanographic Data and Information Exchange (IODE).

## Marine Board Annual Accounts 2008

### 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;
- Special contributions from its Member Organisations;
- FP contracts in support to the Marine Board's activities related to these contracts.

The call for Member Organisations' contributions in 2008 resulted in a Membership income of € 249,908.

In 2008, special contributions were received from:

- **EuroGOOS** (€1,000) in support to Marine Board-EuroGOOS Vision Document on EMODNET;
- **Ifremer** (€ 1,000) in support to Marine Board-EuroGOOS Vision Document on EMODNET;
- **IMR** (€ 10,000) in support to Marine Board publications 2008;
- **Marine Institute** (€ 4,000) in support to Marine Board Position Paper 12, and Marine Board-EuroGOOS Vision Document on EMODNET;
- **NOCS** (€ 1,000) in support to Marine Board Position Paper 12;
- **RCN** (€ 55,000) in support to Marine Board WG POL (see below)\*;
- **Total Foundation** (€ 1,500) in support to the logistics of the Marine Board Communications Panel's session at ESOF 2008;
- **GKSS** - in kind: printing of the Marine Board-EuroGOOS Vision Document on EMODNET.

\*According to an agreement (contract from 1/01/2008), RCN supports the new Marine Board Working Group on Emerging and Existing Chemical Pollutants (WG POL). In 2008, RCN contributed € 55,000 in support to this WG.

One Secretariat FTE (Administrator) is supported continuously as a contribution in kind from **VLIZ**.

Available funds on core Marine Board activities	2008
Direct MO contributions	€ 249,908
Special MO contributions	€ 73,500
Carried over from previous year	€ -51,497.53
Provision for commitments made in previous year	€ 15,655.11
<b>Total available funds 2008</b>	<b>€ 287,565.58</b>

### Use of funds 2008

Expenditure on core Marine Board activities	2008
Secretariat's employment costs (1.8 FTE)	€ 89,857.12
Meetings (TS staff, logistics, WG POL)	€ 32,441.07
Publications	€ 24,931.95
Office running costs	€ 15,935.96
Equipment	€ 745.13
Overheads to ESF	€ 12,495
Depreciation of fixed assets	€ 718.80
Provision for debts	€ 3,814.80
<b>Total Expenditure 2008</b>	<b>€ 180,939.83</b>
<b>Balance carried over to 2009*</b>	<b>€ 106,625.75</b>

\*The carry over from 2008 will be used to secure employment costs in 2010-2012.



## Marine Board Annual Accounts 2008

The Marine Board Secretariat is engaged, on behalf of its Member Organisations, in the following EC-funded FP6 contracts:

- **MarinERA** – Marine Board is Deputy Coordinator;
- **AMPERA** – Marine Board is Task Leader;
- **FEUFAR** – Marine Board is Partner.

Income received from these projects covers some of the Secretariat's activities related to them, including: employment costs, organisation of meetings, and production of publications.

The following table represents total budgets of the Marine Board FP6 contracts, for their entire duration.

FP6 Project	Start date	End date	Total budget	Overheads to ESF
MarinERA	01/11/2004	30/04/2009	€ 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>

\*The MarinERA contract was extended until 30 April 2009 (the reporting period: until 15 June 2009). In recognition of the Marine Board Secretariat's work (Deputy Coordinator of MarinERA, providing project's Secretariat), € 220,000 will be re-allocated from the Partners' budgets to the Marine Board Secretariat. This re-allocation will secure the operation of MarinERA, employment costs, and final reporting. The re-allocation amount to be included in the total amount of the Marine Board's MarinERA budget.

In 2008, the expenditure on FP6 activities amounted to € 369,559.09. See the table below.

Expenditure 2008	MarinERA	AMPERA	FEUFAR
Employment costs	€ 232,232.20	€ 4,091.20	€ 27,909.09
Meetings and travel	€ 16,855.92	€ 254.54	€ 752.00
Publications (including dissemination)	€ 6,870.24	€ 0	€ 6,204.00
Miscellaneous (running expenses, non eligible costs)	€ 11,723.04	€ 1,199.48	€ 1,860.44
Overheads to ESF	€ 51,700.00	€ 966.13	€ 6,941.81
<b>Total Expenditure 2008</b>	<b>€ 319,381.40</b>	<b>€ 6,510.35</b>	<b>€ 43,667.34</b>

## Annex I. Marine Board Member Organisations, Delegates and Observers 2008

### **BELGIUM**

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

Jean-Marie Beckers

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

Jan Mees, Marine Board vice-Chair

### **CYPRUS**

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- Cyprus Oceanography Center

Georgios Georgiou

### **DENMARK**

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

Bo Riemann (until 12/10/2008);

Kirsten Christoffersen (from 13/10/2008)

### **ESTONIA**

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- Eesti Teaduste Akadeemia / Estonian Academy of Sciences

Tarmo Soomere

### **FINLAND**

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- Suomen Akatemia / Academy of Finland

Jaana Lehtimäki

### **FRANCE**

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

Patrick Monfray

- Institut Français de Recherche pour l'Exploitation de la Mer (Ifremer) / French Research Institute for Exploitation of the Sea

Antoine Dosdat, Marine Board 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 and Bodo von Bodungen

- Leibniz-Institut für Meereswissenschaften an der Universität Kiel (IFM-GEOMAR) / Leibniz Institute of Marine Sciences

Peter Herzig

### **GREECE**

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- Hellenic Centre for Marine Research (HCMR)

Kostas Nittis, Marine Board vice-Chair

### **IRELAND**

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- Marine Institute

Geoffrey O'Sullivan, Marine Board vice-Chair

### **ITALY**

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- Consiglio Nazionale delle Ricerche (CNR) / National Research Council

Annalisa Griffa

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

Alessandro Crise

### **NORWAY**

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- Havforskningsinstituttet / Institute of Marine Research

Tore Nepstad; Alternates: Ole Arve Misund, Erlend Moksness

- Norges Forskningsradet / The Research Council of Norway

Lars Horn, Marine Board Chair

- Universitetet i Bergen (UiB) / University of Bergen

Peter Haugan

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

### **POLAND**

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- Polska Akademia Nauk (PAN) / Polish Academy of Sciences

Jerzy Dera

### **PORTUGAL**

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- Centro de Investigação Marinha e Ambiental (CIMAR) / Centre of Marine and Environmental Research

Joao Coimbra

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

Mario Ruivo

### **ROMANIA**

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- Institutul National de Cercetare - Dezvoltare Marina "Grigore Antipa" (INCDM) / National Institute for Marine Research and Development "Grigore Antipa"

Vasile Patrascu

### **SPAIN**

---

- Consejo Superior de Investigaciones Cientificas (CSIC) / Council for Scientific Research

Beatriz Morales-Nin

- Instituto Espanol de Oceanografia (IEO) / Spanish Institute of Oceanography

Gregorio Parrilla

### **SWEDEN**

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- Vetenskapsradet / Swedish Research Council

Kerstin Johannesson

### **THE NETHERLANDS**

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

Jan W. de Leeuw, Marine Board vice-Chair

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

Raymond Schorno

### **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

- National Oceanography Centre, Southampton (NOCS)

Edward Hill, Marine Board vice-Chair; Alternate: Jacky Wood

### **Observers**

- European Commission DG Research

Pierre Mathy

- European Commission DG Maritime Affairs and Fisheries

Kathrine Angell-Hansen

- Israel - Interuniversity Institute for Marine Sciences in Eilat (IUI)

Aaron Kaplan

## ■ Annex II. Marine Board Vision Group Members 2008

### **Marine Board – EuroGOOS Vision Group on EMODNET**

Antoine Dosdat, Marine Board – co-Chair

Peter Ryder, EuroGOOS – co-Chair

Patrick Berthou, Ifremer, France

Taco de Bruin, NIOZ, The Netherlands

Howard Cattle, NOCS, UK

Franciscus Colin, GKSS, Germany

Michael Gillooly, Marine Institute, Ireland

Johnny Johannessen, NERSC, Norway

Juha Markku Leppanen, FIMR, Finland

Giuseppe Manzella, ENEA, Italy

Sylvie Pouliquen, Ifremer, France

Roger Proctor, POL, UK

Dick M.A. Schaap, MARIS, NL

Geoffrey O'Sullivan, Marine Institute, Ireland

Marine Board Vision Group science officers: Niamh Connolly, Maud Evrard

## Annex III. Marine Board Working Group Members 2008

### **Risk assessment and monitoring of existing and emerging new chemicals in the European marine and coastal environment – WG POL (launched in 2008)**

Colin Janssen, Ghent University, Belgium - Chair  
Joan Albaiges, CSIC, Spain  
Maria João Bebianno, University of Algarve, Portugal  
Kees Camphuysen, NIOZ, The Netherlands  
Margot Cronin, Marine Institute, Ireland  
Jan de Leeuw, NIOZ, The Netherlands (Marine Board vice-Chair)  
Geir Wing Gabrielsen, Norwegian Polar Institute, Norway  
Tom Hutchinson, Plymouth Marine Laboratory, UK  
Ketil Hylland, University of Oslo, Norway  
Bo Jansson, Stockholm University, Sweden  
Munro Bjørn Jenssen, NTNU, Norway  
Antonio Marcomini, University of Venice  
Patrick Roose, MUMM, Belgium  
Detlef Schulz-Bull, Baltic Sea Research Institute-Warnemuende, Germany  
Piotr Szefer, Medical University of Gdansk, Poland

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

### **Science dimensions of Ecosystem Approach to Management of Biotic Ocean Resources – WG SEAMBOR (launched in 2008)**

Fatima Borges, IPIMAR, Portugal  
Anthony Grehan, NUI, Ireland  
Andrew Kenny, Cefas, UK  
Harald Loeng, IMR, Norway  
Francesc Maynou, CSIC, Spain  
Christian Möllmann, Hamburg University, Germany  
Jake Rice, DFO, Canada  
Adriaan Rijnsdorp, WUR, The Netherlands  
Ricardo Santos, FCT, Portugal  
Hein Rune Skjoldal IMR, Norway  
Olivier Thébaud, Ifremer, France  
Vasiliki Vasilopoulou, HCMR, Greece  
Filip Volckaert, Universiteit Leuven, Belgium

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

## Annex IV. Marine Board Panel Members 2008

### **Marine Board Communications Panel – MBCP (established in 2002)**

John Joyce, Marine Institute, Ireland - Chair

Fernando Barriga, Universidade de Lisboa, Portugal

Jan Boon, NIOZ, The Netherlands

Anne Ditlefsen, RCN, Norway

Albert Gerdes, MARUM, Germany

Pascale Pessey-Martineau, Ifremer, France

Kim Marshall Brown, NOCS, United Kingdom

Gregorio Parilla, Instituto Español de Oceanografía, Spain

Slawomir Sagan, IOPAN, Poland

Jan Seys, VLIZ, Belgium

Yvonne Robberstad, IMR, Norway

Marine Board Panel science officers: Niamh Connolly, Maud Evrard

### **Marine Board European Scientific Diving Panel – MB ESDP (established in 2008)**

Jean-Pierre Féral, CNRS/INSU, FR - Chair

Martin Sayer, SAMS/NERC, UK – Deputy Chair

Philipp Fischer, AWI, Germany – Deputy Chair

Alain Norro, RBINS/MUMM, Belgium

Roger Lindblom, GU, Sweden

Dan Tchernov, Interuniversity Institute for Marine Science in Eilat - Israel

André Cattrijsse, VLIZ, BE

Jouni Leinikki, Alleco Oy., Tervalampi, Suomen tutkimussukelluksen ohjauskomitea, Finland

G.Caramanna, Italy

Marine Board Panel science officers: Niamh Connolly, Aurélien Carbonnière

## Annex V. Marine Board Publications (1995-2008)

### Marine Board Position Papers:

**Vision Document** Marine Board – EuroGOOS Vision Document on EMODNET (September 2008)

**Position Paper 13** The Effects of Anthropogenic Sounds on Marine Mammals (June 2008)

**Position Paper 12** Remote Sensing of Shelf Sea Ecosystems (February 2008)

**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:

**MarinERA Publication No.7** Future Looks: Strategic Analysis for New Activities (November 2008)

**Marine Board Annual Activity Report 2007**

**EurOCEAN 2007:** Conference Report and Aberdeen Declaration. Edited by O'Sullivan, G., Angell Hansen, K., Connolly, N. (2007). Marine Institute, Ireland

**Investigating Life in Extreme Environments – A European Perspective.** Joint Marine Board - ESF Report (2007)

**EurOCEAN 2004** European Conference on Marine Science & Ocean Technology. Conference Proceedings. Edited by Cieplikiewicz, W., Connolly, N., Ollier G. & O'Sullivan G. (2007). Office for Official Publications of the European Communities

**EurOCEAN 2004** Rapporteurs' Report. Edited by O'Sullivan, G., Connolly, N., Ollier, G (2007). Marine Institute, Ireland

**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. (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)

## Annex VI. Meetings, Conferences and Events organised by the Marine Board Secretariat in 2008 (including jointly organised)

<b>16 January 2008</b>	<i>Marine Board ExCom Meeting</i> (Brussels)
<b>16 January 2008</b>	<i>Meeting of Marine Board ExCom with NoEs representatives</i> (Brussels)
<b>21 January 2008</b>	<i>Meeting with Waterborne TP representatives</i> (Ostend)
<b>23 January 2008</b>	<i>BONUS and MarinERA Coordination Teams' Meeting</i> (Brussels)
<b>23 January 2008</b>	<i>MarinERA pre-TC Meeting</i> (Brussels)
<b>28 January 2008</b>	<i>Marine Board Meeting with EuroFleet</i> (Brussels)
<b>28-29 January 2008</b>	<i>Marine Board Working Group on Pollutants Kick-off Meeting</i> (Brussels)
<b>1 February 2008</b>	<i>Meeting with Waterborne TP representatives</i> (Ostend)
<b>6 February 2008</b>	<i>Marine Board Secretariat Meeting with ESF CEO</i> (Ostend)
<b>18 February 2008</b>	<i>Marine Board – EuroGOOS Panel on EMODNET Kick-off Meeting</i> (Brussels)
<b>26 February 2008</b>	<i>MarinERA Technical Committee Meeting (7)</i> (Brussels)
<b>2 April 2008</b>	<i>Aberdeen+ Interest Group Meeting</i> (Brussels)
<b>3 April 2008</b>	<i>4<sup>th</sup> Marine / Environmental ERA-NET Forum</i> (Brussels)
<b>15-16 April 2008</b>	<i>MarinERA – BONUS Baltic Workshop</i> (Tallinn)
<b>17 April 2008</b>	<i>Marine Board-EuroGOOS Panel on EMODNET Meeting</i> (Brussels)
<b>17 April 2008</b>	<i>Marine Board Working Group SEAMBOR Kick-off Meeting</i> (Brussels)
<b>13 May 2008</b>	<i>Marine Board ExCom Meeting</i> (Ostend)
<b>13-14 May 2008</b>	<i>Marine Board Spring 2008 Plenary Meeting</i> (Ostend)
<b>13-17 May 2008</b>	<i>Exhibition on Marine Research Initiatives</i> (Ostend)
<b>14 May 2008</b>	<i>Marine Board Communications Panel Meeting</i> (Ostend)
<b>14 May 2008</b>	<i>Official Inauguration of the Marine Board facilities at the InnovOcean site</i> (Ostend)
<b>15 May 2008</b>	<i>1<sup>st</sup> Marine Board Forum</i> (Ostend)
<b>15 May 2008</b>	<i>Official Launch of the Marine Board Position Paper 12</i> (Ostend)
<b>27-28 May 2008</b>	<i>MarinERA Atlantic Workshop</i> (Oslo)
<b>4-5 June 2008</b>	<i>MarinERA Mediterranean / Black Sea Workshop</i> (Athens)
<b>5-6 June 2008</b>	<i>Marine Board Working Group on Pollutants Meeting</i> (Ostend)
<b>12 June 2008</b>	<i>Marine Board – EuroGOOS Panel on EMODNET Meeting</i> (Brussels)



## Annex VI. Meetings, Conferences and Events organised by the Marine Board Secretariat in 2008 (including jointly organised)

<b>9 July 2008</b>	<i>Marine Board ExCom Meeting</i> (Brussels)
<b>21 July 2008</b>	<i>Marine Board Communications Panel's Session at ESOF 2008</i> (Barcelona)
<b>16-17 September 2008</b>	<i>MarinERA Technical Committee Meeting (8)</i> (Majorca)
<b>8 October 2008</b>	<i>Marine Board ExCom Meeting</i> (Brussels)
<b>20-24 October 2008</b>	<i>BioMarine 2008</i> (Toulon, Marseille) – Marine Board on the Steering Committee
<b>20 October 2008</b>	<i>Marine Board ExCom Meeting</i> (Toulon)
<b>20-21 October 2008</b>	<i>Marine Board Autumn 2008 Plenary Meeting</i> (Toulon)
<b>24 October 2008</b>	<i>Official Launch of the Marine Board – EuroGOOS Vision Document on EMODNET</i> (Marseille)
<b>17-18 November 2008</b>	<i>Marine Board WG SEAMBOR Meeting</i> (Brussels)
<b>5 December 2008</b>	<i>Marine Board European Scientific Diving Panel Kick-off Meeting</i> (Brussels)

## Annex VII. Presentations to meetings by Marine Board Executive Committee Members and Secretariat in 2008

16 January 2008	<i>Meeting of Marine Board ExCom with NoEs representatives</i> (Brussels)	Niamh Connolly Maud Evrard
28-29 January 2008	<i>Marine Board Working Group on Pollutants Kick-off Meeting</i> (Brussels)	Jan-Bart Calewaert
28-29 January 2008	<i>ECORD-NET Deep-Sea Frontier Initiative Steering Committee Meeting</i> (Berlin)	Niamh Connolly
18 February 2008	<i>Marine Board Panel on EMODNET Kick-off Meeting</i> (Brussels)	Niamh Connolly Maud Evrard
20 February 2008	<i>Meeting with Waterborne TP representatives</i> (Brussels)	Aurélien Carbonnière
5 March 2008	<i>ESF Meeting of Chairs</i> (Paris)	Lars Horn
2 April 2008	<i>Aberdeen+ Interest Group Meeting</i> (Brussels)	Niamh Connolly Jan-Bart Calewaert Aurélien Carbonnière Maud Evrard
3 April 2008	<i>4<sup>th</sup> Marine / Environmental ERA-NET Forum</i> (Brussels)	Niamh Connolly Jan-Bart Calewaert Aurélien Carbonnière Maud Evrard
15-16 April 2008	<i>MarinERA – BONUS Baltic Workshop</i> (Tallinn)	Maud Evrard
17 April 2008	<i>Marine Board Working Group SEAMBOR Kick-off Meeting</i> (Brussels)	Niamh Connolly Aurélien Carbonnière
14 May 2008	<i>Official Inauguration of the Marine Board facilities at the InnovOcean site</i> (Ostend)	Lars Horn Jan Mees
15 May 2008	<i>1<sup>st</sup> Marine Board Forum</i> (Ostend)	Lars Horn
19 May 2008	<i>European Maritime Day</i> (Brussels)	Ed Hill
27-28 May 2008	<i>MarinERA Atlantic Workshop</i> (Oslo)	Maud Evrard
28-29 May 2008	<i>EFARO General Assembly</i> (Montpellier)	Aurélien Carbonnière
4-5 June 2008	<i>MarinERA Mediterranean / Black Sea Workshop</i> (Athens)	Maud Evrard
13 June 2008	<i>CPMR Conference</i> (Deauville)	Aurélien Carbonnière
13 June 2008	<i>VLIZ Annual Meeting</i> (Ostend)	Jan-Bart Calewaert
17-18 June 2008	<i>Aberdeen + Task Force Meeting</i> (Copenhagen)	Niamh Connolly

## Annex VII. Presentations to meetings by Marine Board Executive Committee Members and Secretariat in 2008

9-10 July 2008	<b>New Marine Overarching ERA-NET Preparatory Meeting</b> (Paris)	Maud Evrard
11-12 August 2008	<b>NFTC2008 Conference</b> (Trondheim)	Lars Horn
15 August, 2008	<b>Visit to the Marine Institute Ireland</b> (Galway)	Niamh Connolly
8 September 2008	<b>Aberdeen+ Task Force Meeting</b> (Copenhagen)	Niamh Connolly Maud Evrard
16-17 September 2008	<b>MarinERA Technical Committee Meeting</b> (Majorca)	Niamh Connolly Jan-Bart Calewaert Aurélien Carbonnière Maud Evrard
17-18 September 2008	<b>New Marine Overarching ERA-NET Preparatory Meeting</b> (Majorca)	Niamh Connolly Jan-Bart Calewaert Aurélien Carbonnière Maud Evrard
18 September 2008	<b>EC KBBE-NET CWG on Marine Biotechnology</b> (Brussels)	Jan-Bart Calewaert
25 September 2008	<b>ESF Meeting of Chairs</b> (Strasbourg)	Lars Horn
14 October 2008	<b>COST Seminar on Marine Board Activities</b> (Brussels)	Niamh Connolly
14 October 2008	<b>CPMR Aquamarina WG Meeting</b> (Brussels)	Aurélien Carbonnière Maud Evrard
15 October 2008	<b>Aberdeen+ Task Force Meeting</b> (Brussels)	Niamh Connolly Jan Bart Calewaert Maud Evrard
20-21 October 2008	<b>Marine Board Autumn 2008 Plenary Meeting</b> (Toulon)	Niamh Connolly Jan-Bart Calewaert Aurélien Carbonnière Maud Evrard

## Annex VII. Presentations to meetings by Marine Board Executive Committee Members and Secretariat in 2008

<b>23 October 2008</b>	<i>Ifremer session – side event BioMarine 2008 Knowledge at the service of society</i> (Marseille)	Lars Horn
<b>24 October 2008</b>	<i>Official Launch of the Marine Board – EuroGOOS Vision Document on EMODNET</i> (Marseille)	Lars Horn Geoffrey O’Sullivan
<b>17 November 2008</b>	<i>MARCOM+ Preparatory Meeting</i> (Copenhagen)	Lars Horn Maud Evrard
<b>17-18 November 2008</b>	<i>Marine Board WG SEAMBOR Meeting</i> (Brussels)	Aurélien Carbonnière
<b>26 November 2008</b>	<i>ESF Meeting of Chairs</i> (Stockholm)	Lars Horn
<b>26-28 November 2008</b>	<i>ESF Science Policy Conference and General Assembly</i> (Stockholm)	Lars Horn
<b>3 December 2008</b>	<i>SEAS-ERA Preparatory Meeting</i> (Brussels)	Jan-Bart Calewaert Aurélien Carbonnière Maud Evrard
<b>3 December 2008</b>	<i>EMAR<sup>2</sup>RES Meeting</i> (Brussels)	Aurélien Carbonnière
<b>5 December 2008</b>	<i>Marine Board European Scientific Diving Panel Kick-off Meeting</i> (Brussels)	Aurélien Carbonnière

## Annex VIII. Conference booths at which the Marine Board publications were presented in 2008

**EGU General Assembly**

(13-18 April 2008, Vienna)

**Inauguration of Marine Board-ESF facilities at the InnovOcean site**

(14 May 2008, Ostend)

**1<sup>st</sup> Marine Board Forum**

(15 May 2008, Ostend)

**Marine Board exhibition on marine research activities**

(14-17 May 2008, Ostend)

**InnovOcean site Open House**

(17 May 2008, Ostend)

**European Maritime Day**

(19-20 May 2008, Brussels)

**ESOF 2008** (18-22 July 2008, Barcelona)

**ESF EuroBioForum**

(17-19 September 2008, Strasbourg)

**MERIS User Workshop**

(22-26 September 2008, Frascati)

**OceanOptics 2008 Conference**

(6-10 October 2008, Barga)

**COST seminar**

(14 October 2008, Brussels)

**CPMR General Assembly**

(14 October 2008, Brussels)

**Biomarine 2008 Conference**

(20-24 October 2008, Toulon and Marseille)

**Seas at Risk Conference**

(5 November 2008, Brussels)

**Sea-bed mapping Seminar organised by EP**

(6 November 2008, Brussels)

**ESF Science Policy Conference and General Assembly**

(26-28 November 2008, Stockholm)

## ANNEX IX. Member Contributions 2008

### Marine Board Member Contributions 2008

Member organisation	Contribution €
FNRS, Belgium	5,000
FWO, Belgium	5,000
OC, Cyprus	7,000
FNU, Denmark	10,000
EAS, Estonia	7,000
AKA, Finland	10,000
CNRS, France	14,000
Ifremer, France	14,000
DFG, Germany	14,000
HGF, Germany	14,000
HCMR, Greece	7,908
Marine Institute, Ireland	10,000
CNR, Italy	14,000
OGS, Italy	14,000
NWO - KNAW, The Netherlands KNAW, The Netherlands	15,000
RCN, Norway IMR, Norway	15,000
PAN, Poland	7,000
FCT, Portugal*	7,000
CSIC, Spain	7,500
IEO, Spain	7,500
VR, Sweden	10,000
TUBITAK, Turkey	7,000
NERC, UK NOCS, UK	28,000
<b>Total Contributions received</b>	<b>€ 249,908</b>

\*In 2008, the full contribution for Portugal € 14,000. FCT were invoiced for 50% of the Portuguese contribution as GRICES disbanding was not stated at the moment of the call issue.

## ■ Annex X. Marine Board Secretariat Team 2008

Dr Niamh Connolly, Head of the Secretariat,  
Marine Board Executive Scientific Secretary

Mr Jan-Bart Calewaert, Science Officer

Mr Aurélien Carbonnière, Science Officer

Ms Dina Eparkhina, Administrator

Ms Maud Evrard, Science Officer

## Annex XI. List of Acronyms

<b>AKA</b>	Academy of Finland
<b>AMPERA</b>	FP6 ERA-NET project on Marine Accidental Pollution
<b>AWI</b>	Science and Innovation Administration (Flanders, Belgium)
<b>BONUS</b>	FP6 ERA-NET for the Baltic Sea Science – Network of Funding Agencies
<b>CEFAS</b>	Centre for Environment, Fisheries & Aquaculture Science
<b>CEO</b>	Chief Executive Officer
<b>CIMAR</b>	Centre of Marine and Environmental Research (Portugal)
<b>CNRS</b>	National Center for Scientific Research (France)
<b>COST</b>	European Cooperation in the field of Scientific and Technical Research
<b>CPMR</b>	Conference of Peripheral Maritime Regions
<b>CREST</b>	Scientific and Technical Research Committee of the European Union
<b>CSIC</b>	National Research Council (Spain)
<b>DEFRA</b>	Department for Environment, Food and Rural Affairs (United Kingdom)
<b>DFO-MPO</b>	Fisheries and Oceans Canada
<b>DG ENV</b>	DG Environment (European Commission)
<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>ECORD-Net</b>	FP6 ERA-NET for Ocean Research Drilling
<b>EFARO</b>	European Fisheries and Aquaculture Research Organisations
<b>EGU</b>	European Geosciences Union
<b>EMaPS</b>	European Marine and Polar Science
<b>EMAR<sup>2</sup>RES</b>	Support Action to initiate cooperation between the Communities of European MARine and MARitime REsearch and Science
<b>EMODNET</b>	European Marine Observation and Data Network
<b>ENEA</b>	National Agency for New Technologies, Energy and the Environment (Italy)
<b>EP</b>	European Parliament
<b>ERA</b>	European Research Area
<b>ERA-NET</b>	European Research Area Network
<b>ERVO</b>	European Research Vessel Operator
<b>ESDP</b>	European Scientific Diving Panel (Marine Board-ESF)
<b>ESF CEO</b>	European Science Foundation Chief Executive Officer
<b>ESF</b>	European Science Foundation
<b>ESOF</b>	Euroscience Open Forum
<b>EU</b>	European Union
<b>EuroGOOS</b>	European Global Ocean Observing Systems
<b>EUROFLEETS</b>	FP7 I3 Towards an alliance of European fleets
<b>FCT</b>	Foundation for Science and Technology (Portugal)
<b>FEUFAR</b>	Future of European Fisheries and Aquaculture Research
<b>FIMR</b>	Finnish Institute of Marine Research
<b>FP</b>	Framework Programme (FP6 and FP7)
<b>FTE</b>	Full-Time Equivalent
<b>GKKS</b>	Research Centre for coastal and materials research (Germany)
<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)



## Annex XI. Glossary of Acronyms

<b>ICES</b> .....	International Council for the Exploration of the Sea
<b>IFM-GEOMAR</b> .....	Leibniz Institute of Marine Sciences at the University of Kiel (Germany)
<b>Ifremer</b> .....	French Sea Research Institute
<b>IMARES</b> .....	Institute for Marine Resources & Ecosystem Studies
<b>INCDM</b> .....	National Institute for Marine Research and Development "Grigore Antipa"
<b>IOC</b> .....	International Oceanographic Commission (UNESCO)
<b>IODE</b> .....	International Oceanographic Data and Information Exchange (UNESCO/IOC)
<b>IOPAN</b> .....	Institute of Oceanology of the Polish Academy of Sciences
<b>IP</b> .....	Integrated Project (FP scheme)
<b>IPIMAR</b> .....	Institute for fisheries research (Portugal)
<b>IUI</b> .....	Interuniversity Institute for Marine Sciences at Eilat (Israel)
<b>KBBE-Net</b> .....	Knowledge Based Bio-Economy
<b>KNAW</b> .....	Royal Netherlands Academy of Arts and Sciences
<b>MarBEF</b> .....	Marine Biodiversity and Ecosystem Functioning (FP6 NoE)
<b>MARCOM+</b> .....	Towards an Integrated Marine and Maritime Science Community
<b>MarinERA</b> .....	FP6 ERA-NET project on Marine RTD
<b>MARIS</b> .....	Marine Information Service private company (the Netherlands)
<b>MARUM</b> .....	Centre for Marine Environmental Sciences (Germany)
<b>MB ESDP</b> .....	Marine Board European Scientific Diving Panel
<b>MBCP</b> .....	Marine Board Communications Panel
<b>MI</b> .....	Irish Marine Institute
<b>MUMM</b> .....	Management Unit of the North Sea Mathematical Models and the Scheldt estuary (Belgium)
<b>NERC</b> .....	Natural Environment Research Council
<b>NIOZ</b> .....	Royal Netherlands Institute for Sea Research
<b>NOCS</b> .....	National Oceanography Centre, Southampton
<b>NoE</b> .....	Network of Excellence (FP6)
<b>NTNU</b> .....	University of Science and Technology (Norway)
<b>NUI</b> .....	National University of Ireland
<b>OFEG</b> .....	Ocean Facilities Exchange Group
<b>OGP</b> .....	International Association of Oil and Gas Producers
<b>POL</b> .....	Proudman Oceanographic Laboratory (UK)
<b>R&amp;D</b> .....	Research and Development
<b>RCN</b> .....	Research Council of Norway
<b>RTD</b> .....	Research and Technological Development
<b>SEAS-ERA</b> .....	FP7 overarching marine ERA-NET (proposal)
<b>SSA</b> .....	Specific Support Action (FP Scheme)
<b>TP</b> .....	Technology Platform
<b>TS</b> .....	Travel and subsistence
<b>UK</b> .....	United Kingdom
<b>UNESCO</b> .....	United Nations Educational, Scientific and Cultural Organization
<b>VLIZ</b> .....	Flanders Marine Institute
<b>WG</b> .....	Working Group
<b>WG ECOGENE</b> .....	Marine Board Working Group on Marine Eco-Genomics
<b>WG MPA</b> .....	Marine Board Working Group of Marine Protected Areas
<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
<b>WISE</b> .....	Water Information System for Europe

## ■ Credit for pictures on the cover

### **From upper left to bottom right:**

- Common dolphin; Mick Mackey
- Research Vessel Hesperides in Antarctica; CSIC
- Fish catch; Mick Mackey
- Scientific diving:  
settlement panel retrieval; Martin Sayer (NERC)
- Marine Board Flag; Dina Eparkhina (Marine Board)
- Marine Board Delegates at the Marine Board Spring  
2008 Plenary Meeting in Oostende; Marine Board

## ■ Editorial team

- Niamh Connolly – manager
- Jan-Bart Calewaert and Dina Eparkhina – realisation



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