

ANNUAL ACTIVITY REPORT



2009



The Marine Board provides a pan-European platform for its member organisations to develop common priorities, to advance marine research and to bridge the gap between science and policy, in order to meet future marine science challenges and opportunities.

Marine Board

The Marine Board was established in 1995 to facilitate enhanced cooperation between European marine science organisations (both research institutes and research funding agencies) towards the development of a common vision on the research priorities and strategies for marine science in Europe. In 2009, the Marine Board represents 30 Member Organisations from 19 countries.

The Marine Board provides the essential components for transferring knowledge for leadership in marine research in Europe. Adopting a strategic role, the Marine Board serves its member organisations by providing a forum within which marine research policy advice to national agencies and to the European Commission is developed, with the objective of promoting the establishment of the European *Marine* Research Area. Marine Board operates in partnership with the European Science Foundation.



European Science Foundation

The European Science Foundation (ESF) was established in 1974 to provide a common platform for its Member Organisations to advance European research collaboration and explore new directions for research. It is an independent organisation, owned by 79 Member Organisations, which are research funding organisations and research performing organisations, academies and learned societies from 30 countries. ESF promotes collaboration in research itself, in funding of research and in science policy activities at the European level.



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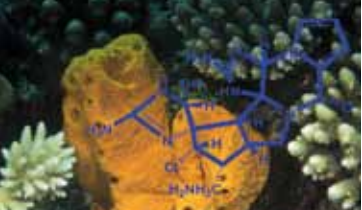
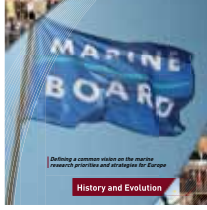


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MARINE BOARD HIGHLIGHTS 2009

		
<p>January</p> <p>FP6 ERA-NET MarinERA wrap-up Meeting and Launch of five MarinERA-funded projects (28-29 January, Paris)</p>	<p>February</p> <p>MarinERA Infrastructure Workshop Towards a Long-Term and Sustained European Network of Coastal Observatories (12-13 February, Marseille)</p>	<p>March</p> <p>FP7 ERA-NET SEAS-ERA - Preparatory Meetings in Brussels</p>
		
<p>April</p> <p>Marine Board Communications Panel session at European Geosciences Union (EGU) General Assembly 2009 <i>The Significance of Marine Technology in Science Communication - Challenges and Opportunities</i> (23 April, Vienna)</p>	<p>May</p> <p>Marine Board Chair represents the Board at the initiation workshop of an All-embracing Stakeholder Platform for the Integrated Maritime Policy - European Maritime Day Conference 2009, Rome.</p>	<p>June</p> <p>Marine Board welcomes Niall McDonough as its new Executive Scientific Secretary</p>
		
<p>July</p> <p>Publication by the Marine Board Secretariat of MarinERA Legacy document, outlining major achievements and successes of the MarinERA Project.</p>	<p>August</p> <p>Communication plan and Impact monitoring and assessment strategy developed by the Secretariat</p>	<p>September</p> <p>Marine Board Working Group on Marine Biotechnology Kick-off Meeting (22 September, Brussels)</p> <p>© Exploration, Marc Slattery, NOAA</p>
		
<p>October</p> <p>Marine Board marks ten years as a stand alone Board with the launch of a brochure on the Board's evolution and history at the Autumn 2009 Plenary Meeting (13-14 October, Sopot)</p>	<p>November</p> <p>FP7 Project EMAR²RES kicks off to develop a framework to enhance cooperation between Marine and Maritime Research Communities in the field of maritime transport (24 November, Ostend)</p>	<p>December</p> <p>Marine Board Working Group on Chemical Pollutants (WGPOL) Wrap-up Meeting (14-15 December, Oslo)</p>

Message from the Chair



It is my pleasure to present the Marine Board Annual Report 2009. The report reveals the versatility and flexibility of the Marine Board which allows it to continuously strengthen its role as a platform to develop marine research priorities and policies to advance marine science in Europe.

For the Marine Board, 2009 was a year of change in many ways. On the home front, the Board said farewell to its Executive Secretary, Dr. Niamh Connolly, who had been at the helm of the Secretariat since 2002. We thank her for her contribution to the success of the Board and her strong leadership of the Secretariat. We wish her well in her new endeavors. At the same time we welcomed her replacement, Dr. Niall McDonough, who took up his position in June. The arrival of the new Executive Scientific Secretary and his smooth integration has reinforced the Secretariat, making 2009 a pivotal year, providing the foundation for a next generation of activities of strategic importance for marine science in Europe.

2009 was also the year which marked ten years for the Marine Board as a stand-alone entity. We celebrated this landmark during the Autumn 2009 Plenary Meeting (13-14 October 2009, Sopot) with the launch of a brochure on Marine Board History and Evolution.

While 2009 was pivotal for Marine Board, the marine science policy landscape has not stood still. New developments and initiatives will undoubtedly reshape how European Marine Science is governed and supported in the coming years. Central in these developments at the European level has been the further roll-out of implementation actions in the framework of the Integrated Maritime Policy (IMP) for the European Union.

The European Strategy for Marine and Maritime Research, which was adopted by the European Council in September 2008, is evidence of the European Commission's recognition of the essential role of marine and maritime research in supporting the IMP. Concrete actions are proposed to enhance integration across established marine and maritime research disciplines, to stimulate capacity building, and to improve synergies within and between Member States, regions and industry sectors.

From the outset, the Board has been involved in several initiatives and activities which will contribute to the goals of the European Marine and Maritime Research Strategy. For example, at the European Maritime Day Stakeholder Conference 2009 in Rome, marine and maritime stakeholders agreed to establish an All-embracing Stakeholder Platform to support the Commission's efforts on implementation of the IMP. The goal of this platform is to combine the views and needs of all stakeholders related to the seas and oceans. This is a very ambitious undertaking, and because of its inherent complexity, it will take some time to realise. The Marine Board will contribute what we can to its success because we think the platform will be able to advise on the how marine and maritime science and technology can contribute to the sustainable and prosperous socio-economic development of Europe.

Collaborations with other marine and maritime science networks and stakeholders were intensified in 2009 with the preparation and launch of FP7 projects such as MARCOM+ and EMAR²RES. The Board's influential role is also reflected in the invitations, continually received, to participate in advisory panels and workshops for sister networks (e.g. ECORD), Framework Programme projects (e.g. HERMIONE and MEECE) and for Commission Services initiatives (e.g. Expert Group on Marine Research Infrastructures).

By 2009, the Board has 30 Member Organisations from 19 European countries and continues to attract the interest of potential new members. Meanwhile we are grateful for the continued proactive involvement and interest of our existing members. Likewise, the communication we have with the European Commission and organisations in the marine and maritime fields is essential for us.

Looking into next year and beyond, I trust the Marine Board will remain a solid contributor to the development of marine science and marine science policy in Europe. We plan to make major progress on the development of our Navigating the Future IV position paper which will focus on the future needs for marine science and technology. We are, furthermore, looking forward to continued good cooperation with all our partners, while continuing to improve and advance the operations of the Board. Crucially, the independent and objective nature of the Board's advice, recommendations and products is central to its success and must be maintained.

No organisation is better than its Secretariat. The Marine Board is blessed with a highly competent and enthusiastic staff which takes care of strategic and administrative matters. The smooth running of meetings, forums, publications and many other activities and initiatives is a result of their hard work, dedication and high level of professionalism. Many thanks.

Lars Horn, Research Council of Norway



Chair, Marine Board

Executive Scientific Secretary's Report



I am delighted to present the 2009 Executive Secretary's report on behalf of both myself and my predecessor, Dr Niamh Connolly, who stepped down in March 2009. 2009 can be characterised as a year of transition for the Board and its Secretariat. Not only did

Niamh move on to pastures new, but a number of key initiatives and projects came to an end, while preparation began on the development of a number of important new activities.

Following its very successful 54-month run, the *MarinERA* project was finally completed in April 2009. The Marine Board Secretariat Officers worked hard in the closing months of the project to ensure that all of the contractual obligations were met and that a number of closing reports were delivered to the very highest standard. Bringing its strong experience from *MarinERA*, the Marine Board can now look forward to participating in the new FP7-funded overarching marine ERA-NET, *SEAS-ERA*, which is likely to get underway in the second quarter of 2010.

Three further FP7 proposals with Marine Board involvement were approved for funding in 2009. Two of these projects, *EMAR²RES* and *MARCOM+*, are directly concerned with generating concrete structures for closer cooperation between the European marine and maritime research communities, as called for under the European Strategy for Marine and Maritime Research. The *CLAMER* project will assess how the outputs of scientific research on the impacts of climate change on the marine environment are effectively translated to end users, and develop products and mechanisms to ensure that research in this field is generating the desired impact in terms of public opinion and

the development of effective policies. The Board's involvement as an Associate Partner in the FP7 *EUROFLEETS* I3 project, which kicked off in 2009, will also ensure that it continues to play a role in the better coordination and more effective use of European research fleets.

Participation in these external projects will ensure that the Marine Board is at the heart of the implementation actions for the European Marine and Maritime Research Strategy and continually interacting with key stakeholders in the marine research and science policy landscape. Furthermore, the Secretariat, as the operational representatives of the Board on these projects, is mobilised to involve Marine Board Delegates and Member Organisation nominees in the numerous panels, fora and workshops which will be run as part of these projects, ensuring that the Board will play an influential role at all levels of its organisation.

The groundwork for a number of new Marine Board core activities was also laid in 2009. Three new working groups were approved on *Marine Biotechnology (WG BIOTECH)*, *Marine Protected Areas (WG MPAs)* and *Marine Microbial Biodiversity (WG MICROCEAN)*. Notably, *WG BIOTECH*, which kicked off in September 2009, forms part of a wider suite of trans-national activities which will shape European research priorities and progress in the field of Marine Biotechnology over the next ten years. The development of a new Vision Group on Marine Renewable Energy (*VG MRE*) was also approved at the Autumn Plenary.

The Board continues to facilitate two panels: the *Marine Board Communications Panel (MBCP)* and the *European Scientific Diving Panel (ESDP)*. The support that the Board provides towards these panels aims to allow them to develop into longer-term cooperation mechanisms, while the Board itself benefits from the inputs and expertise of the panel members.

Looking ahead to 2010, many events stand out in the calendar, but two deserve particular attention. The 2nd Marine Board Forum, which will focus on the need for a European network of long-term marine observatories, is planned for September 2010. It is intended that the Forum will generate an agreed vision statement to promote the need for long-term support and development of marine observatories for monitoring and research. Secondly, the *EurOCEAN 2010* Conference, a Belgian EU Presidency event coordinated by the Flemish Department of Economy, Innovation and Science, will be held in Ostend in October 2010. As a result of the experience gained in organising the previous two *EurOCEAN* Conferences in Galway (2004) and Aberdeen (2007), the Marine Board was invited to sit on the local organising committee for *EurOCEAN 2010* and to coordinate development of the conference programme. Hence, with an extremely busy 2010 to look forward to, it will be critical to plan and prioritise the work of the Board and the Secretariat to ensure that contractual deadlines are met while core activities, proposed by the Member Organisations themselves, remain at the centre of the Board's efforts.

I would sincerely like to thank the Marine Board Secretariat Officers, Aurélien Carbonnière, Maud Evrard, Dina Eparkhina and Jan-Bart Calewaert, for their hard work and excellent support during the second half of 2009 as I settled into the role of Executive Secretary. I would also like to thank Niamh Connolly for her helpful advice and guidance prior to her departure, and the Marine Board Chair, Lars Horn, for his enthusiasm and support. I very much look forward to working with the Secretariat team, the ExCom and the Marine Board Delegates, to ensure that the Board continues to play a leadership role at the interface of marine science and policy in 2010 and beyond.

Niall McDonough, Marine Board



Executive Scientific Secretary, Marine Board

ABOUT THE MARINE BOARD

Marine Board Operational Approaches

The Marine Board operates via four principle approaches which underpin the Board's main objective of bridging the gap between science and policy:

- **Forum** - bringing together European marine research stakeholders to share knowledge, develop common positions and collaborate (see page 13);
- **Synergy** - fostering European added value to national programmes and promoting collaboration with international programmes and organisations (see page 19);
- **Strategy** - identifying disciplinary and inter-disciplinary marine scientific issues of strategic importance for Europe, and providing high-level recommendations for European and national programme managers, research funders and policy makers as well as the scientific community (see page 22);
- **Voice** - expressing a collective vision of marine research priorities, in order to develop a European strategy for marine research and to meet future science and societal challenges and opportunities (see page 25).

Marine Board Structure and Governance

Marine Board Members

The Marine Board is a pan-European partnership of national organisations involved in marine science, including both research funding organisations (e.g. research councils, ministries) and research performing organisations (e.g. major national marine research institutes). Marine Board Members meet at Plenary Meetings twice a year to share knowledge, to define common priorities and to agree on activities and outputs which will drive or impact upon European and national marine research agendas.

The Marine Board activities and the operation of its Secretariat are funded through annual contributions from Marine Board Member Organisations and Marine Board external contracts.

In 2009, the Marine Board represented 30 organisations from 19 different countries in Europe (a list of Marine Board Members and Delegates is provided in Annex I). The European Commission's DG MARE and DG RTD have seats as permanent Observers at the Marine Board Plenary Meetings.



Marine Board Delegates at Spring 2009 Plenary Meeting in Rome

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ABOUT THE MARINE BOARD

Executive Committee

Marine Board operations are overseen by its Executive Committee (ExCom) composed of a Chair and six vice-Chairs (elected by the Marine Board Members) and the Executive Scientific Secretary.

ExCom Members as of December 2009:



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



Beatriz Morales Nin
Spanish National Research Council (CSIC), Spain



Antoine Dosdat
French Institute for Exploitation of the Sea (Ifremer), France



Geoffrey O'Sullivan
Irish Marine Institute (MI), Ireland



Edward Hill
National Oceanography Centre, Southampton (NOCS), UK



Sevcen Çolpan Polat-Beken
Scientific and Technological Research Council of Turkey (TUBITAK), Turkey



Jan Mees
Fund for Scientific Research - Flanders (FWO), Belgium



Niall McDonough
Executive Scientific Secretary, Marine Board-ESF

The ExCom meets approximately four times per year to follow-up on the implementation of the actions agreed by the Board at Plenary Meetings, make operational and financial decisions, and provide strategic guidance to the Board.

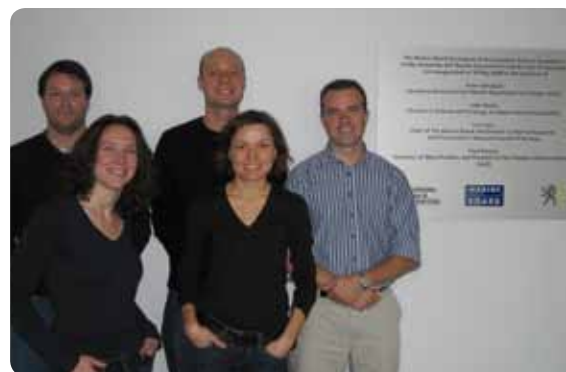


Marine Board ExCom Meeting (11 February 2009, Ostend), from left to right: Kostas Nittis, Jan de Leeuw, Antoine Dosdat and Jan Mees (vice-Chairs), Dina Eparkhina (Secretariat), Lars Horn (Chair), Niamh Connolly (Executive Secretary), Maud Evrard (Secretariat), Geoffrey O'Sullivan (vice-Chair), Jacky Wood (on behalf of Edward Hill, vice-Chair) and Jan-Bart Calewaert (Secretariat)

Marine Board Secretariat

The strategic and operational decisions and activities proposed by the Marine Board and ExCom are implemented by the Secretariat. Based at the Marine Board offices in Ostend, the Secretariat is composed of five staff members, including three Science Officers, one Administrator and the Executive Scientific Secretary who is head of the Secretariat and a member of the Executive Committee.

The Secretariat works to support day-to-day operations of the Marine Board, advance Marine Board objectives and promote the Board's activities and outputs.



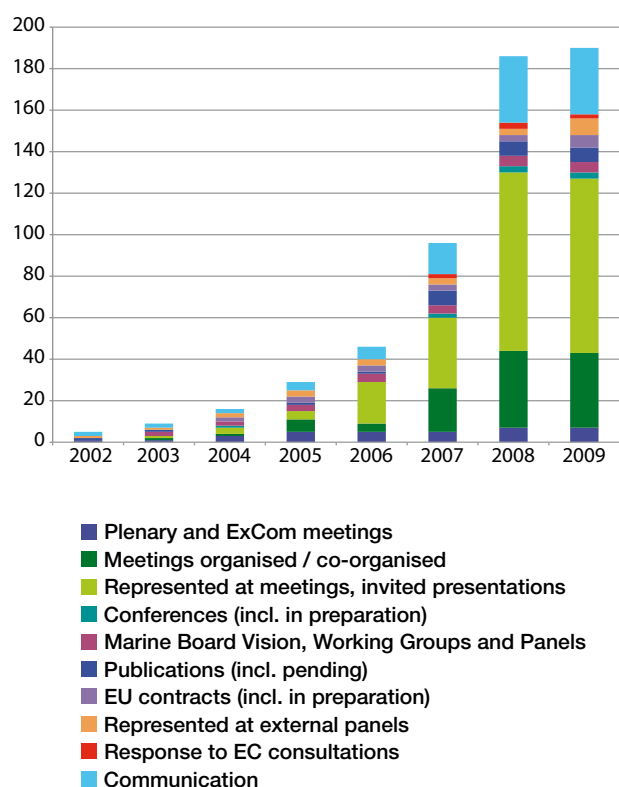
The Marine Board Secretariat, from left to right: Aurélien Carbonnière, Maud Evrard, Jan-Bart Calewaert (Science officers), Dina Eparkhina (Administrator), and Niall McDonough (Executive Scientific Secretary)

MARINE BOARD IN A NUTSHELL

Key Marine Board output, uptake and impact in 2009

- MarinERA paves the way for an over-arching marine ERA-NET to be funded through FP7: SEAS-ERA is to start in 2010
- Marine and Maritime Science partnership initiatives: FP7 CSA projects EMAR²RES (Nov. 2009) and MARCOM+ (Jan. 2010) kicked off to foster marine and maritime research collaboration
- FP7 I3 EUROFLEETS kick-off (24 Sept. 2009): the project developed directly as a result of Marine Board Position Paper 10 on European Ocean Research Fleets, and the MarinERA Infrastructure workshop series
- Marine Board invited to sit on the steering group of the EC-driven All-embracing Stakeholder Platform for the Integrated Maritime Policy for Europe (launched in May 2009)
- Marine Board invited to coordinate the development of the programme for EurOCEAN 2010 - High-level European marine science and technology conference (organised as Belgian EU Presidency Event in October 2010)

Marine Board Activities (2002-2009)



Marine Board 2009 in figures

Member Organisations	30
Countries represented	19
Working Groups and Panels running	5
New Working / Vision Groups and Panels in preparation for launch	3
Members of running Working / Vision Group and Panels	57
Meetings organised (incl. jointly)	36
Presentations at meetings	49
Represented at meetings (total)	83
Represented at stakeholder panels*	8
EC Framework projects running	3
EC Framework projects in preparation for launch	3
Total partner organisations in Marine Board EC FP activities (excl. Marine Board)	63
Publications and leaflets (realisation and editing)	5
Press releases / announcements / articles	10
Publications disseminated (approx.)	4,000
Booths at conferences / meetings	9
Secretariat staff	5

*Marine Board is represented at external networks/projects:

- networks: ECORD, Waterborne TP, EC CWG on Marine Biotechnology, EMODNET Biological Lot, All-embracing Stakeholder Platform for the IMP;
- FP7 projects: MEECE, HERMIONE, EUROFLEETS.

FORUM

The Marine Board provides a forum for representatives of the marine science community, funding agencies and policymakers to advance research and to promote marine science at European, national and global levels.

Marine Board Plenary Meetings

Marine Board Plenary Meetings, held twice a year in spring and autumn, gather Marine Board Member Organisation Delegates to reflect and agree on topical marine science and technology issues, and propose future strategic actions. During these meetings, the 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.

Spring 2009 Plenary Meeting (18-19 May 2009, Rome, Italy)

The Spring 2009 Plenary Meeting was organised back-to-back with the 2nd European Maritime Day Stakeholder Conference (19-21 May, Rome) in which the Marine Board was actively involved (see p. 25). The Italian National Research Council (CNR) hosted the official dinner of the Plenary.

The Spring Plenary was attended by 23 Marine Board Delegates. The Plenary Open Session welcomed Marine Board Observers from EC DG MARE and RDT, two invited speakers and two guests (see list of participants in Annex II-A).

Major decisions of the Spring Plenary:

- **Membership**

The Swedish Institute for the Marine Environment was formally approved as a Member of the Board (see Annex I for Membership list).

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Marine Board Spring 2009 Plenary Meeting (18-19 May 2009 Rome)

- **ExCom elections**

Lars Horn (RCN, Norway) and Jan Mees (VLIZ, Belgium) were re-elected for second (two-year) terms as Chair and vice-Chair respectively. Colpan Beken (TUBITAK, Turkey) and Beatriz Morales-Nin (CSIC, Spain) were elected as new vice-Chairs.

- **Establishment of a Working Group on Marine Biotechnology (WG BIOTECH)**

The main objective of this Working Group is to prepare a set of recommendations and propose a roadmap towards a future European strategy on marine biotechnology. The WG BIOTECH kick-off meeting was held in September 2009 (also see p. 17).

Autumn 2009 Plenary Meeting (13-14 October 2009, Sopot, Poland)

The Autumn 2009 Marine Board Plenary was hosted by the Institute of Oceanology of the Polish Academy of Sciences (IO-PAN).

The Autumn Plenary was attended by 19 Marine Board Delegates. The Plenary Open session welcomed Marine Board Observers from EC DG MARE and RDT, eight invited speakers and three guests (see list of participants in Annex II-B).



Marine Board Autumn 2009 Plenary Meeting on this picture, from left: Friedrich Buchholz (DFG/HGF, Germany), S. Colpan Polat-Beken (TUBITAK, Turkey), Vasile Patrascu (INCDM, Romania) and Edward Hill (NOCS, UK)

Major decisions of the Autumn Plenary:

- **Establishment of the Working Group on Marine Microbial Biodiversity (WG MICROCEAN)**

This Working Group aims to re-emphasise the importance and role of microbes in the marine environment, and provide recommendations and a roadmap to guide European research in this field in the medium-term (to 2020).

- **Establishment of the Working Group on Marine Protected Areas (WG MPA)**

This Working Group aims to provide a framework to inform, engage and empower stakeholders in planning and implementation of future MPAs, both at national, regional and global levels.

- **Establishment of the Vision Group on Marine Renewable Energy (VG MRE)**

This Vision Group will deliver a short document outlining a Vision on how marine science can best contribute to the sustainable development of Marine Renewable Energy in Europe by 2020.

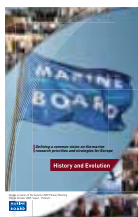
- **Initiate preparation of the foresight Position Paper, Navigating the Future IV**

In its Navigating the Future (NF) series, the Marine Board outlines the most important marine thematic research priorities for Europe in a format accessible to European and national research programme managers, policy makers, industry and the marine science community itself. The NFIV Position Paper will critically analyse trends and developments in the science and policy landscape, and provide high-level expert foresight, in order to formulate extensive recommendations on future marine research priorities in Europe for the period 2011-2020. Publication of NFIV is foreseen in mid-2011.

- **Organise the 2nd Marine Board Forum Towards a European Network of Marine Observatories for Monitoring and Research**

The 2nd Marine Board Forum (scheduled for 16 September 2010) will highlight the role of marine observatories in the setting of an extended observational infrastructure for Europe and of the EMODNET. It will deliver a Vision Statement providing high-level recommendations in support of a European network of long-term marine observatories.

Further information on Marine Board activities is available at:
www.esf.org/marineboard



At the Autumn Plenary, the Marine Board marked ten years as a stand-alone Board with the launch of a brochure on the Board's evolution and history. The Brochure reflected on the Board's development from its formation in the mid-1990's and becoming a separate entity in 1999, to playing an influential role in the design of today's European marine research agenda. With this brochure, the Marine Board highlighted that its independence and the dedicated involvement of its Members, ExCom and Secretariat are at the heart of its success, driving its objectives towards the establishment of a European *Marine* Research Area.

The Marine Board History and Evolution brochure is available for download from the Marine Board website: www.esf.org/marineboard/about



Launch of the Marine Board History and Evolution Brochure (13 October 2009, Sopot) by its principal author, Geoffrey O'Sullivan (Marine Board vice-Chair, Irish Marine Institute)



Autumn 2009 Plenary Meeting at the Institute of Oceanology of the Polish Academy of Sciences, IO-PAN (13-14 October 2009, Sopot)

Marine Board Working Groups

Marine Board Working Groups gather European and international experts to address topical issues of strategic importance in European marine science and technology. They are the primary science foresight and priority setting instrument of the Board.

A Working Group (WG) is established for a 12 to 18 month period, and usually results in a Position Paper (see Annex III).

Marine Board Position Papers aim to provide clear strategic recommendations for science managers, policy makers and for the scientific community itself, to influence marine research policy and programming as well as broader maritime policy at both national and European levels. To date (2009) the Marine Board has published 13 Position Papers (see Annex V).

Marine Board Working Groups running in 2009 include:

Science Dimensions of an Ecosystem Approach to Management of Biotic Ocean Resources (WG SEAMBOR)

This tri-partite Working Group (Marine Board, ICES, EFARO) is focused on the scientific needs to support the implementation of a proper ecosystem-based approach to the management of living marine resources. WG SEAMBOR develops its work around three important domains:

- Society: to maintain ecosystem integrity and improve human well-being;
- Science: to better understand ecosystems and human system interactions in all their components;
- Governance: to ensure social, economic and ecological objectives are integrated in ways that support sustainable exploitation.

WG SEAMBOR held its final meeting on 16 September 2009. Publication of the Position Paper is foreseen in May 2010.

Risk Assessment and Monitoring of Existing and Emerging Chemicals in the European Marine and Coastal Environment (WG POL)

This Working Group was convened to analyse current monitoring practices to evaluate the impact and risks of chemicals in European marine and coastal ecosystems. The Position Paper will propose improved monitoring procedures and identify future R&D needs. WG POL specifically aims to:

- Review existing knowledge on the environmental effects and risks of chemicals in the marine environment;
- Identify new and emerging chemicals to be addressed in existing and future monitoring and assessment schemes;
- Identify future R&D needs and propose procedures for improved monitoring of the impact and risks of chemicals in marine systems.

WG POL held its final meeting on 15-16 December 2009. Publication of the Position Paper is foreseen for September 2010.



Patrick Roose, Working Group co-Chair (MUMM, Belgium), presents WG POL progress at the Marine Board Autumn 2009 Plenary

© Jerzy Debrowski

Marine Biotechnology - A European Strategy for Marine Biotechnology (WG BIOTECH)

This Working Group will prepare a strategic Position Paper for the advancement of Marine Biotechnology in Europe in the coming 10 years. Its specific objectives are to:

- Analyse European progress in Marine Biotechnology since publication of the first Marine Board Position Paper on Marine Biotechnology (2001);
- Identify the barriers restricting progress in the development of Marine Biotechnology and its application to the various activities from energy to aquaculture, environmental science and biomedicine;
- Review recent literature with a focus on innovation in key technologies, trends and emerging paradigms;
- Propose improved procedures and identify future R&D needs.

Publication of the WG BIOTECH Position Paper is foreseen in September 2010.

Further information on Marine Board Working Groups can be found at: www.esf.org/marineboard/workinggroups

Marine Board Vision Groups

Vision Groups are established for a shorter period than Working Groups. They bring together experts to address topics which require an urgent response to scientific and policy developments within a short time frame. Vision Groups (VG) are set for 6 to 8 months and aim at producing a short (approximately 10-12 pages) Vision Document.

Marine Board Vision Documents tackle their topics in a concise way and use high quality images and diagrams to promote a high-level message. They deliver high-level recommendations to European and national decision makers in order to best impact on marine science policy and programming, and broader maritime policy.

At the Autumn 2009 Plenary Meeting, the Board approved the establishment of **Vision Group on Marine Renewable Energy** (VG MRE). The Group will produce a Vision Document on Marine Renewable Energy, with publication foreseen in September 2010.

Further information on Marine Board Vision Groups and Vision Documents can be found at: www.esf.org/marineboard/visiongroups

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 and with the Marine Board (see Annex IV).

Active Marine Board Panels (2009) include:

Marine Board Communications Panel (MBCP)

This Panel was established in 2002 to mutually assist its members in promoting and communicating marine science across Europe. MBCP members are professional science communicators.



Speakers at the Marine Board Communications Panel session - the European Geosciences Union (EGU) General Assembly 2009 (23/04/09, Vienna). From left: Kim Marshall-Brown (NOCS, UK), John Joyce (Marine Institute, Ireland), Heike Langenberg (Nature Geoscience editor), Albert Gerdes (MARUM, Germany), Kjartan Mæstad (IMR, Norway) and Jan Seys (VLIZ, Belgium)

Facilitated by the Marine Board Secretariat, the Panel meets regularly to exchange ideas on events, communication methods and best practice, and to organise dedicated sessions at marine science conferences (e.g. European Geosciences Union Assembly, EuroScience Open Forum, etc.).

Marine Board European Scientific Diving Panel

Established in 2008, this Panel provides a forum for its members to network and exchange knowledge and best practice in the field of scientific diving, and to promote scientific diving as a relevant research tool in support of management initiatives for the marine environment.

Further information on Marine Board Panels can be found at: www.esf.org/marineboard/panels

Marine Board Biennial Forum

The Marine Board Biennial Forum provides a platform for Marine Board Members, sister and partner organisations, individual scientists and European and national policymakers to interact on a particular topic of strategic importance for European marine science.



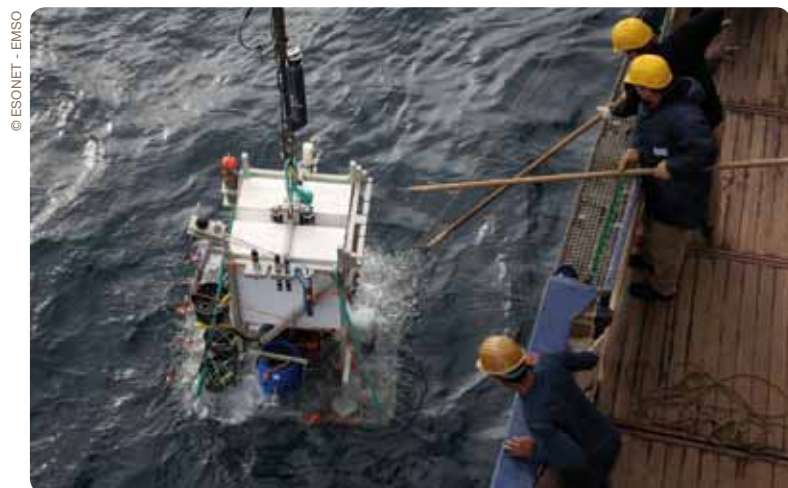
Participants at the 1st Marine Board Forum (15 May 2008, Ostend)

For each selected topic or theme, the Marine Board Forum aims to:

- Reduce duplication of initiatives;
- Limit the fragmentation of the European research efforts;
- Facilitate the exchange of information and ideas;
- Enhance synergy among actors;
- Provide a focal meeting point for institutions and individual scientists;
- Agree a common position amongst scientists, policy makers and stakeholders to stimulate progress on the issue in hand.

Output from the presentations and discussions of the Marine Board Forum are published as proceedings.

The 1st Marine Board Forum, *Marine Data Challenges: From Observation to Information*, took place in Ostend on 15 May 2008. The Forum focused on the importance of an integrated pan-European observation and data management system, and challenges of its development. Proceedings of the 1st Marine Board Forum were published in May 2009 and can be downloaded from: www.esf.org/marineboard/publications. Hard copies are available at the Secretariat upon request.



The 2nd Marine Board Forum, *Towards a European Network of Marine Observatories for Monitoring and Research*, will be held in Brussels on 16 September 2010. It will focus on the critical need for long-term support for *in-situ* marine observatories, providing long-term time series data sets, crucial for monitoring and for research. The major output of the Forum will be a Vision Statement containing a set of high-level recommendations to secure, with a long-term commitment, an integrated European network of marine observatories.

Further information on Marine Board Forum can be found at: www.esf.org/marineboard/forum

SYNERGY

The Marine Board participates in a number of EC Framework Programme projects, aiming to enhance interactions and collaborations among European marine science stakeholders, exchange knowledge and expertise, promote shared use of infrastructures and joint identification of priorities, and avoid duplication of efforts.

MarinERA: *Facilitating Cooperation between National Marine RTD Programmes in Europe*

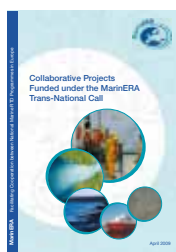
Project type: EC FP6 ERA-NET
Duration: 54 months (Nov. 2004-April 2009)
Budget: € 2.9M
Consortium: 16 partners in 13 countries
Coordinator: Ifremer (France)
Deputy Coordinator: Marine Board-ESF



The MarinERA project was a pilot EC European Research Area Network (ERA-NET), established to facilitate collaboration between national and regional marine research programmes in Europe. MarinERA represented a first step towards a European Research Area for marine science.

Completed in April 2009, the project facilitated a major advancement in cooperation between its partner national agencies, culminating in the commitment of €4.6M from five countries towards a common trans-national research call.

The MarinERA Trans-national Call for proposals on “*Changes in Marine Ecosystems and Functional Biodiversity in Relation to Global Change and Other Anthropogenic Impacts*”, resulted in the funding of five collaborative projects across seven countries. The Projects were launched at the MarinERA wrap-up meeting.



The MarinERA Legacy publication, prepared and published by the Marine Board Secretariat, outlined the outputs and impacts of the MarinERA project. The Secretariat also edited and published a **MarinERA-funded projects brochure**.



MarinERA contributed to raising a collective awareness of the benefits of, and opportunities for, increased cooperation between national funding programmes and programme managers. As a result of this awareness, an FP7-funded over-arching marine ERA-NET, SEAS-ERA, will be launched in the first half of 2010. To ensure that past achievements are integrated in future developments, the Marine Board will lead some SEAS-ERA strategic activities.

MarinERA publications are downloadable from the MarinERA website: www.marinera.net



SYNERGY: Reducing fragmentation in European marine research

EMAR²RES: *Cooperation between the Communities of European MARine and MARitime REsearch and Science*

Project type: EC FP7 CSA
Duration: 28 months (Nov. 2009-Feb. 2012)
Budget: € 0.5M
Consortium: 5 pan-European partners
Coordinator: Community of European Shipyards Associations (CESA)

Marine Board is a Work Package Leader



The FP7 Coordinated Support Action EMAR²RES involves the European Associations representing major waterborne R&D stakeholders and the Marine Board, as a key representative of the Marine Science Research Community. EMAR²RES will investigate and develop cooperation between the marine and maritime research communities with a focus on maritime transport.

The project aims to deliver a framework for an efficient and streamlined cooperation towards sustainable maritime activities. This framework will be developed by identifying:



- Areas of common interest;
- Areas of possible synergies (between marine and maritime stakeholders, funding programmes or specific policies);
- Structures for a long-lasting cooperation, including an assessment of operational and economic feasibility, and environmental and societal impacts.

In this project, the Marine Board will work to bridge the gap between marine and maritime science communities, via topical workshops and a Policy Interface Panel of marine and maritime experts.

EUROFLEETS: *Towards an Alliance of European Research Fleets*

Project type: EC FP7 I3
Duration: 48 months (Sept. 2009-Aug. 2013)
Budget: € 7.2M
Consortium: 24 partners in 16 countries
Coordinator: Ifremer (France)

Marine Board is an Associated Partner



The EUROFLEETS FP7 Infrastructures project aims to enhance the coordination and promote the cost-effective use of the participating European research fleets and their associated facilities. The project will support high-level research projects via fully-funded ship time on a range of European research vessels.



EUROFLEETS Kick-off Meeting (22-24 September 2009, Paris)

EUROFLEETS emerged directly from recommendations of the Marine Board Position Paper 10, *Ocean Research Fleets - Towards a Common Strategy and Enhanced Use* (March 2007), in coherence with the Aberdeen Declaration (June 2007) and the strategic infrastructure recommendations of MarinERA and ERVO.

Further information on EuroFLEETS is available at: www.eurofleets.eu

Projects in preparation

In 2009, the Marine Board was involved in preparation of three further FP7 projects to be launched in 2010:

MARCOM+: *Towards an Integrated Marine and Maritime Science Community*

Type: Type: EC FP7 CSA
Duration: 24 months (Jan. 2010-Dec.2012)
Budget: € 1M
Consortium: 10 partners
Coordinator: ICES

Marine Board is a Work Package Leader

MARCOM+ will aim at developing interactions between marine and maritime science communities, involving Member States, regional authorities, the research community, industry and other stakeholders. Within this project, the Marine Board will facilitate a sustainable dialogue between these stakeholders through the organisation of a series of Marine and Maritime Science and Technology Partnership Open Fora. The Marine Board will also work to completion of an inventory of marine and maritime stakeholders and presentation of a report on potential structure for a durable marine and maritime cooperation.

SEAS-ERA: *Towards Integrated Marine Research Strategy and Programmes*

Project type: EC FP7 ERA-NET
Duration: 48 months
Budget: € 2M
Consortium: 22 partners in 20 countries
Coordinator: MICINN (Spain)

Marine Board is a Work Package Leader

The vast majority (85%) of publicly funded research investment in Europe is made at national level. Building on progress made through a number of FP6 marine ERA-NETs, including MarinERA, AmpERA and MariFISH, SEAS-ERA will foster further cooperation and integration between marine research funding agencies in Europe.

SEAS-ERA will involve funding agencies from 20 countries and facilitate further progress towards a European Research Area for marine science. The project will begin in the first half of 2010.

CLAMER: *Climate Change Impacts on the Marine Environment: Research Results and Public Perception*

Project type: EC FP7 CSA
Duration: 18 months (April 2010-Sept.2011)
Budget: € 1M
Consortium: 17 partners in 10 countries
Coordinator: NIOZ (Netherlands)

Marine Board is a Work Package Leader

CLAMER will aim to raise the awareness of European citizens and society at large of the effects of climate change on the marine environment and associated socio-economic consequences. The project will draw attention to the gap between what is known through research and what policy makers and the public know and understand about the impacts of climate change on the oceans. This gap must be filled to ensure that appropriate and sustainable adaptation strategies are developed and implemented. The Marine Board will be facilitating the synthesis of scientific knowledge on climate change impacts on the marine environment from past and ongoing European research efforts.



STRATEGY

Marine Board delivers strategic analyses and foresight on marine science topics of identified strategic importance, providing high-level recommendations to marine research stakeholders and policy makers.

Marine Board Position Papers

Marine Board Position Papers provide foresight analysis, strategic management advice and scientific recommendations to impact on national and European research agendas. Marine Board Position Papers target national and European programme managers, marine science and broader maritime policy makers and the science community itself, with the goal of advancing European marine research and bridging the gap between science and policy.

Marine Board Position Papers are generally delivered by Working Groups of experts. To date, the Marine Board has produced **thirteen Position Papers** (Annex V).

By the end of 2009 there were three active Working Groups (see page 16), and two further Working Group activities had been approved.

Marine Board Vision Documents

Marine Board Vision Documents are delivered by dedicated Vision Groups and aim to highlight one particular issue perceived by the Marine Board as being of strategic importance for Europe and requiring urgent attention.

Vision Documents elaborate a best-case scenario for the future development of the issue, based on a realistic time-frame and identifying the high-level actions necessary to achieve this vision. Such documents are designed to profile the need for action and to engage and activate the appropriate actors towards achieving this vision.

The Marine Board published its first **Vision Document on European Marine Observation and Data Network (EMODNET)**, in partnership with EuroGOOS in September 2008. In 2009, preparations got underway on a second **Vision Document on Marine Renewable Energy**. This Vision Document will call for an integrated planning and implementation framework and identify the marine science requirements to underpin the development of a sustainable Renewable Ocean Energy sector in Europe by 2020 (publication foreseen in September 2010).



Other Marine Board Publications

The Marine Board Secretariat prepared and published a number of other publications highlighting Marine Board activities and collaborations (see Annex V).

The 1st Marine Board Forum Proceedings (May 2009) outlined the discussions and conclusions of the 1st Marine Board Forum (15 May 2008) entitled, *Marine Data Challenges: from Observation to Information*.



“Starting with the fundamental premise that observational data should be readily available to those who need it, key recommendations from the 1st Marine Board Forum include:

- *A call to develop a strategy that enables proper planning of marine observations;*
- *A drive to address the technological challenges, ensuring appropriate quality assurance at all levels;*
- *A need to address the requirement for long-term sustainable funding for observation and data management, necessary to provide a reliable basis for end-users to invest in transforming observations into useful operational products.”*

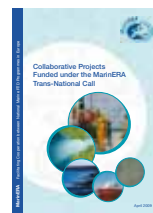
The MarinERA Legacy publication (April 2009) summarized the outputs and impacts of the FP6 MarinERA project (see page 19).



“MarinERA [...] developed a mentoring role in particular for the thematic ERA-NETs, such as MariFish and AMPERA. While strong and regular interactions among these and other environmental ERA-NETs (e.g. BiodivERsA, BONUS, CIRCLE, CRUE, ERA-Chemistry, EuroPOLAR) were established for exchange of experience and information, it quickly became apparent that there was a significant degree of overlap - a result of the obligatory structure of ERA-NETs - which needed to be addressed. Improved cohesion continues to be addressed in the proposed evolution of MarinERA [...] where it develops into the SEAS-ERA...”

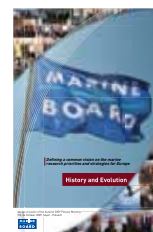
The MarinERA Projects Brochure (April 2009) provided an overview of five collaborative projects launched as a result of the MarinERA Joint Call.

“Five MarinERA partners joined together in a 4.6 million euro virtual pot call for proposals on “Changes in marine ecosystems and functional biodiversity in relation to global change and other anthropogenic impacts” covering the geographical areas (i) North Sea, Channel and adjacent areas; and (ii) Mediterranean and exchanges with adjacent basins.”



The Marine Board History Brochure (October 2009) highlighted the Board's evolution and its role in promoting the establishment of the European Marine Research Area (also see page 15).

“Much has changed on the European marine research landscape since the Marine Board entered the stage in the early 1990s [...] In this new landscape, the Marine Board must continually adapt its strategy and modus operandi so that it can continue to influence and contribute to this exciting new dawn of marine science and technology”.



ESF science policy briefing on the Impacts of Ocean Acidification (August 2009). The Marine Board contributed this ESF publication by providing a foreword and advice on policy developments and peer review. The publication highlighted the threats of increasing oceanic acidity resulting from human activities, and provided recommendations for European action.

All Marine Board publications are available for download from:
www.esf.org/marineboard/publications

Pending publications

In 2009, the Marine Board started preparation of three new Position Papers (see page 16):

- **Position Paper 14 Science *Dimensions of Ecosystem-based Management of Biotic Ocean Resources*** (pending, publication foreseen: May 2010);
- **Position Paper 15 Risk Assessment and Monitoring of Existing and Emerging Chemicals in the European Marine and Coastal Environment** (pending, publication foreseen: September 2010);
- **Marine Board Position Paper 16 *Marine Biotechnology - A European Strategy for Marine Biotechnology*** (pending, publication foreseen: September 2010).



VOICE

One of Marine Board's core objectives is to forge a collective vision on the future direction of European marine science and technology. To voice this vision, the Marine Board actively participates in various science policy initiatives, driven both by the European Commission and the scientific community.

European Marine and Maritime Research Strategy



The Marine and Maritime Research Strategy (adopted in September 2008) is one of the implementation actions of the *Integrated Maritime Policy for the European Union* (June 2007).

Through its activities, the Marine Board has provided inputs to the Strategy and is continuously involved in the implementation of its objectives, facilitating interactions between stakeholders, informing policy, and enhancing foresight analyses to meet future challenges.

Further information on the Integrated Maritime Policy and Marine and Maritime Research Strategy can be found at: http://ec.europa.eu/research/mmrs/index_en.htm

An All-embracing Stakeholder Platform for the Integrated Maritime Policy

At a dedicated workshop of the 2009 European Maritime Day (EMD) Stakeholder Conference in Rome, marine and maritime stakeholders agreed on a process towards the development of an All-embracing Stakeholder Platform to provide a consolidated multi-stakeholder platform to advise on the future direction of the EU Integrated Maritime Policy. Facilitated by the European Commission, the Platform is organised around five pillars: Industry, Environment, Users of the Sea, Regional Authorities and Science. The Marine Board and ICES are the two science pillar representatives on the platform steering group.



European Maritime Day (EMD) Stakeholder Conference 2009: Marine Board Chair Lars Horn (second from the left) at EMD Workshop on all-embracing stakeholder platform for a holistic maritime policy

European Marine Observation and Data Network (EMODNET) Roadmap and Action Plan

In 2008, the Marine Board joined forces with



EuroGOOS to voice the vision of their communities on what an integrated inter-operable marine monitoring and observation system EMODNET might be in the next five to ten years. The result of this collaboration was a Vision Document on EMODNET, which provided inputs for the EC Roadmap on EMODNET. In their open letter to Commissioner Borg (June 2009), Marine Board and EuroGOOS welcomed the Roadmap but stressed the urgent need for increased and long-term support for an expanded observational infrastructure which must be at the core of a successful EMODNET.

Further information on the Marine Board - EuroGOOS Vision Document on EMODNET and the Open Letter can be found at: www.esf.org/marineboard

Providing a common vision for marine biotechnology

Working Group

Recognising the strategic importance of a common vision for the future of marine biotechnology in Europe, the Marine Board has set up an expert Working Group to develop a **European Strategy for Marine Biotechnology**. The aim of this WG is to prepare a Position Paper containing an up-to-date set of strategic recommendations for the development of Marine Biotechnology in Europe in the coming 10 years, to be published in September 2010 (also see page 17).

Collaboration with European Commission

The Marine Board bottom-up activities in the field of marine biotechnology attracted the interest of the **EC Collaborative Working Group on Marine Biotechnology**, who invited the Marine Board to attend its meetings as an Observer. This ensured a mutually beneficial coordination and exchange between the Marine Board and the Collaborative Working Group, enhancing the possibilities for research and policy interactions and sharing scientific knowledge and strategic insight.

High-Level Research Conference

In parallel with these initiatives, the Marine Board Secretariat is preparing, in partnership with ESF and COST, a **High-Level Conference Marine Biotechnology: Future Challenges** to take place in Italy on 20-25 June 2010.



The conference will promote scientific excellence in marine biotechnology by providing leading scientists and young researchers with a platform to present their work, to discuss current scientific understanding and recent developments in key areas of marine biotechnology, and to identify the priorities for further research and infrastructure. The output of the conference will inform the forthcoming Marine Board Position Paper.

Communications output

Marine Board Communications 2009

Press releases/articles/announcements: 10
Conference/meeting booths: 9
Leaflet: 1
Poster: 1
Publications disseminated: ca 4000 hard copies
Marine Board webpage: www.esf.org/marineboard

Effective communication and dissemination of its strategic output is of crucial importance for the success of the Marine Board. The Board has increasingly come to recognise the importance of delivering the right message, in the right format to the appropriate end-user. To support this goal, in 2009 the Secretariat developed a comprehensive communication plan, including a strategy for monitoring and measuring the impact of Marine Board outputs.



Marine Board publications at the European Maritime Day Stakeholder Conference 2009 in Rome (19-21 May 2009)

Marine Board Finances 2009

The Marine Board annual budget is based on:

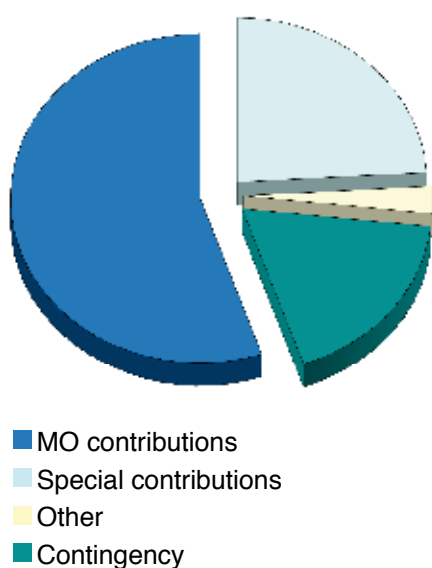
- Membership contributions from Marine Board Member Organisations,
- Special Contributions (towards some Marine Board core activities), and
- External contracts.

The Flemish Government (Belgium) provides an in-kind contribution to the Board through the provision of office space and equipment at the Ostend InnovOcean site and the employment cost of the Marine Board Administrator.

Available Funds 2009

Member Contributions Core Marine Board activities, Secretariat staffing and office running	€ 327K
FP Drawdown 2009 MarinERA	€ 142.4K
Carry over Contingency 2010-2012	€ 106.6K
Other Income Provisions, FP pre-financing, etc	€ 15.8K
Total available funds 2009	€ 591.8K

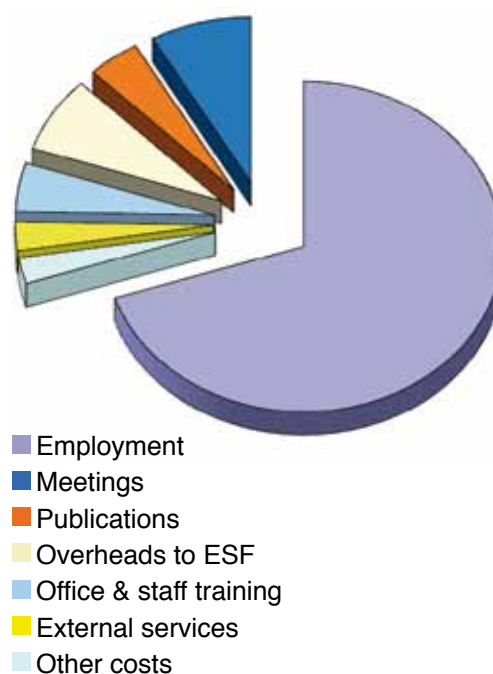
Figure 1: Available Funds 2009



Expenditure 2009

Employment costs	€ 354.2K
Relocation costs	€ 12.6K
Meetings Secretariat staff travel, logistics, WG POL support	€ 43.1K
Publications and dissemination	€ 22.2K
Running costs	€ 18.2K
Equipment	€ 4K
Staff training	€ 2.9K
Overheads to ESF Marine Board and FP projects admin. charges	€ 39K
Other costs Equipment depreciation, provisions	€ 13.5K
External Services Auditing, registration of Secretariat offices	€ 14.7K
Total expenditure 2009	€ 524.4K

Figure 2: Expenditure 2009



Annex I. Marine Board Member Organisations, Delegates and Observers

BELGIUM

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

CYPRUS

- **Ωκεανογραφικού Κέντρου Κύπρου**
Cyprus Oceanography Center
Georgios Georgiou

DENMARK

- **Det Frie Forskningsråd | Natur og Univers (FNU)**
The Council for Independent Research | Natural Sciences
Kirsten Christoffersen

ESTONIA

- **Eesti Teaduste Akadeemia**
Estonian Academy of Sciences
Tarmo Soomere

FINLAND

- **Suomen Akatemia**
Academy of Finland
Jaana Lehtimäki

FRANCE

- **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 (May 2007-May 2010)

GERMANY

- **Deutsche Forschungsgemeinschaft (DFG)**
German Research Foundation
- **Hermann-von-Helmholtz-Gemeinschaft deutscher Forschungszentren (HGF)**
Association of National Research Centres
Karin Lochte
Bodo von Bodungen
- **Leibniz-Institut für Meereswissenschaften an der Universität Kiel (IFM-GEOMAR)**
Leibniz Institute of Marine Sciences
Peter Herzig

GREECE

- **Ελληνικό Κέντρο Θαλάσσιων Ερευνών**
Hellenic Centre for Marine Research (HCMR)
Kostas Nittis, Marine Board vice-Chair (May 2006-May 2009)

IRELAND

- **Foras na Mara**
Marine Institute
Geoffrey O'Sullivan, Marine Board vice-Chair (October 2008-October 2011)

ITALY

- **Consiglio Nazionale delle Ricerche (CNR)**
National Research Council
Annalisa Griffo (until 14/10/2009); Giuseppe Cavarretta (from 15/10/2009)
- **Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)**
National Institute of Oceanography and Experimental Geophysics
Alessandro Crise

NETHERLANDS

- **Koninklijke Nederlandse Akademie van Wetenschappen (KNAW)**
Royal Netherlands Academy of Arts and Sciences
Jan de Leeuw (until 16/03/2009) Marine Board vice-Chair (May 2004-May 2009; re-elected in May 2007); Carlo Heip (from 17/03/2009)

- **Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)**

Netherlands Organisation for Scientific Research

Raymond Schorno (until 09/04/2009);

Josef F. Stuefer (from 30/09/2009)

NORWAY

- **Havforskningsinstituttet**

Institute of Marine Research

Tore Nepstad; Alternates: Erlend Moksness,

Ole Arve Misund

- **Norges Forskningsradet**

The Research Council of Norway

Lars Horn, Marine Board Chair (May 2006-May 2011; re-elected in May 2009)

- **Universitetet i Bergen (UiB)**

University of Bergen

Peter Haugan; Alternate: Gunn Mangerud

POLAND

- **Instytut Oceanologii Polskiej Akademii Nauk (IO-PAN)**

Institute of Oceanology of the Polish Academy of Sciences

Jerzy Dera (until 19/06/2009); Sławomir Sagan (from 20/06/2009)

PORTUGAL

- **Centro de Investigação Marinha e Ambiental (CIMAR)**

Centre of Marine and Environmental Research

João Coimbra

- **Fundação para a Ciência e a Tecnologia (FCT)**

Foundation for Science and Technology

Mário Ruivo; Alternate: Ricardo Santos

ROMANIA

- **Institutul National de Cercetare - Dezvoltare Marina "Grigore Antipa"**

National Institute for Marine Research and Development "Grigore Antipa"

Vasile Patrascu

SPAIN

- **Consejo Superior de Investigaciones Científicas (CSIC)**

Council for Scientific Research

Beatriz Morales-Nin, Marine Board vice-Chair (May 2009-May 2012)

- **Instituto Español de Oceanografía (IEO)**

Spanish Institute of Oceanography

Gregorio Parrilla

SWEDEN

- **Havsmiljöinstitutet**

Swedish Institute for the Marine Environment

Michael Thorndyke

TURKEY

- **Türkiye Bilimsel ve Teknik Arastırma Kurumu (TUBITAK)**

The Scientific and Technological Research Council of Turkey

Sevcan Colpan Polat-Beken, Marine Board vice-Chair (May 2009-May 2012)

UNITED KINGDOM

- **Natural Environment Research Council (NERC)**

Mike Webb; Alternate: Jacky Wood

- **National Oceanography Centre, Southampton (NOCS)**

Edward Hill, Marine Board vice-Chair

(May 2007-May 2010); Alternate: Jacky Wood

Marine Board Observers

- **European Commission DG Research**

Pierry Mathy; Ana-Teresa Caetano

- **European Commission DG Maritime Affairs and Fisheries**

Kathrine Angell-Hansen

Up-to-date information on Marine Board Membership is available from: www.esf.org/marineboard/about

Annex II. A: Marine Board Spring 2009 Plenary Meeting (18-19 May 2009, Rome, Italy) - List of Participants

Marine Board

Name	Organisation
Horn, Lars	Research Council of Norway (RCN)
Beckers, Jean-Marie	National Fund for Scientific Research (FNRS), Belgium
Coimbra, Joao	Centre of Marine and Environmental Research (CIMAR), Portugal
Crise, Alessandro	National Institute of Oceanography and Experimental Geophysics (OGS), Italy
Dosdat, Antoine	French Research Institute for Exploitation of the Sea (Ifremer)
Griffa, Annalisa	National Research Council (CNR), Italy
Haugan, Peter	University of Bergen (UiB), Norway
Heip, Carlo	Royal Netherlands Academy of Arts and Sciences (KNAW)
Hill, Ed	National Oceanography Centre Southampton (NOCS), UK
Lochte, Karin	Alfred Wegener Institute for Polar and Marine Research (AWI), Germany
Mees, Jan	Research Foundation - Flanders (FWO), Belgium
Moksness, Erlend	Institute of Marine Research (IMR), Norway
Monfray, Patrick	National Center for Scientific Research (CNRS), France
Morales Nin, Beatriz	Council for Scientific Research (CSIC), Spain
Nittis, Kostas	Hellenic Centre for Marine Research (HCMR), Greece
O'Sullivan, Geoffrey	Marine Institute, Ireland
Parrilla-Barrera, Gregorio	Spanish Institute of Oceanography (IEO)
Polat Beken, Colpan	Scientific and Technological Research Council of Turkey (TUBITAK)
Ruivo, Mario	Science and Technology Foundation (FCT), Portugal
Sagan, Slawomir	Polish Academy of Sciences
Soomere, Tarmo	Estonian Academy of Sciences
von Bodungen, Bodo	Association of National Research Centres (HGF), Germany
Wood, Jacky	Natural Environment Research Council (NERC), UK

Marine Board Observers

Name	Organisation
Angell-Hansen, Kathrine	EC DG MARE
Fuchs, Jacques	EC DG RTD

Invited Speakers to the Open Session

Name	Organisation
Saab, Waddah	EC DG RTD
Thorndyke, Michael	Swedish Institute for the Marine Environment (HavsmiljöInst)

Invited Guests to the Open Session

Name	Organisation
Heppener, Marc	European Science Foundation (ESF)
Peinert, Rolf	German Marine Research Consortium (KDM)

Marine Board Secretariat

Name	Organisation
McDonough, Niall	Marine Board (from 01/06/09)
Calewaert, Jan-Bart	Marine Board
Carbonnière, Aurélien	Marine Board
Eparkhina, Dina	Marine Board
Evrard, Maud	Marine Board

Annex II. B: Marine Board Autumn 2009 Plenary Meeting (13-14 October 2009, Sopot, Poland) - List of Participants

Marine Board

Representative	Organisation
Horn, Lars - Chair	Research Council of Norway (RCN)
Coimbra, Joao	Centre of Marine and Environmental Research (CIMAR), Portugal
Samuel-Rhoads, Yianna	Cyprus Oceanography Centre
Dosdat, Antoine	French Research Institute for Exploitation of the Sea (Ifremer)
Buchholz, Friedrich	German Research Society (DFG) / Association of National Research Centres (HGF), Germany
Lochte, Karin	German Research Society (DFG) / Association of National Research Centres (HGF), Germany
Nittis, Kostas	Hellenic Centre for Marine Research (HCMR), Greece
Moksness, Erlend	Institute of Marine Research (IMR), Norway
O'Sullivan, Geoffrey	Marine Institute, Ireland
Monfray, Patrick	National Center for Scientific Research (CNRS), France
Patrascu, Vasile	National Institute for Marine Research and Development "Grigore Antipa"
Hill, Ed	National Oceanography Centre Southampton (NOCS) / Natural Environment Research Council (NERC), UK
Griffa, Annalisa	National Research Council (CNR), Italy
Sagan, Slawomir	Polish Academy of Sciences - Institute of Oceanology (IOPAN)
Santos, Ricardo	Science and Technology Foundation (FCT), Portugal
Polat Beken, Colpan	Scientific and Technological Research Council of Turkey (TUBITAK)
Parrilla-Barrera, Gregorio	Spanish Institute of Oceanography (IEO)
Thorndyke, Michael	Swedish Institute for the Marine Environment (HavsmiljöInst)
Mangerud, Gunn	University of Bergen (UiB), Norway

Marine Board Observers

Representative	Organisation
Angell-Hansen, Kathrine	European Commission, DG MARE
Caetano, Ana-Teresa	European Commission, DG RTD

Invited Speakers to the Open Session

Name	Organisation
Caetano, Ana-Teresa	European Commission, DG RTD
Dosdat, Antoine	French Research Institute for Exploitation of the Sea (Ifremer)
Gloeckner, Frank Oliver	Max Planck Institute, Germany
Joyce, John	Marine Institute, Ireland
Laros, Willem	Waterborne TP
Moland Olsen, Esben	Institute of Marine Research (IMR), Norway
O'Sullivan, Geoffrey	Marine Institute, Ireland
Roose, Patrick	Management Unit of the North Sea Mathematical Models and the Scheldt estuary (MUMM), Belgium
Santos, Ricardo	Science and Technology Foundation (FCT), Portugal
Seys, Jan	Flanders Marine Institute (VLIZ), Belgium
Thorndyke, Michael	Swedish Institute for the Marine Environment (HavsmiljöInst)

Invited Guests to the Open Session

Name	Organisation
Dera, Jerzy	Polish Academy of Sciences - Institute of Oceanology (IOPAN)
Linkowski, Thomas	European Fisheries and Aquaculture Research Organisation (EFARO)
Terlecka, Regina	Polish Academy of Sciences - Institute of Oceanology (IOPAN)

Marine Board Secretariat

Name	Organisation
McDonough, Niall	Marine Board Executive Scientific Secretary
Calewaert, Jan-Bart	Marine Board
Carbonnière, Aurélien	Marine Board
Eparkhina, Dina	Marine Board
Evrard, Maud	Marine Board

Annex III: Marine Board Working Group Members 2009

Risk Assessment and Monitoring of Existing and Emerging Chemicals in the European Marine and Coastal Environment - WG POL (launched in January 2008)

Members:

- 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
- 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
- Patrick Roose, MUMM, Belgium
- Detlef Schulz-Bull, Baltic Sea Research Institute-Warnemuende, Germany
- Piotr Szefer, Medical University of Gdansk, Poland

Marine Board support:

- Science officer: Jan-Bart Calewaert
- Manager: Niamh Connolly (until March 2009); Niall McDonough (from June 2009)

Science Dimensions of Ecosystem Approach to Management of Biotic Ocean Resources - WG SEAMBOR (launched in April 2008)

Members:

- Jake Rice, DFO, Canada - Chair
- Ricardo Santos, FCT, Portugal
- Fatima Borges, IPIMAR, Portugal
- Anthony Grehan, NUI - Galway, Ireland
- Andrew Kenny, Cefas, UK

- Harald Loeng, IMR, Norway
- Francesc Maynou, CSIC, Spain
- Hein Rune Skjoldal, IMR, Norway
- Olivier Thébaud, Ifremer, France
- Vasiliki Vassilopoulou, HCMR, Greece
- Filip Volckaert, Universiteit Leuven, Belgium

Marine Board support:

- Science officer: Aurélien Carbonnière
- Manager: Niamh Connolly (until March 2009); Niall McDonough (from June 2009)

Marine Biotechnology - A European Strategy for Marine Biotechnology - WG BIOTECH (launched in September 2009)

Members:

- Joel Querellou, Ifremer, France - Chair
- Torger Børresen, DTU Aqua, Denmark
- Catherine Boyen, CNRS Station Biologique, France
- Alan Dobson, University College Cork, Ireland
- Manuel Ferrer, CSIC, Spain
- Manfred Höfle, Helmholtz Center of Infection Research, Germany
- Adrianna Ianora, Ecophysiology Laboratory Stazione Zoologica "A. Dohrn" Naples, Italy
- Marcel Jaspars, University of Aberdeen, UK
- Anake Kijjoa, University of Porto, Portugal
- Jan Olafsen, University of Tromsø, Norway
- George Rigos, HCMR, Greece
- Rene Wijffels, Wageningen UR, Netherlands

Marine Board support:

- Science officer: Jan-Bart Calewaert
- Manager: Niall McDonough

Annex IV: Marine Board Panel Members 2009

Marine Board Communications Panel (established in 2002)

Members:

- John Joyce, Marine Institute, Ireland - Chair
- Myriam Altius, Ifremer, France
- Jan Boon, NIOZ, Netherlands
- Anne Ditlefsen, RCN, Norway
- Albert Gerdes, MARUM, Germany
- Chloe Kembery, ESF
- Kim Marshall-Brown, NOCS, United Kingdom
- Kjartan Mæstad, IMR, Norway
- Gregorio Parilla, IEO, Spain
- Jan Seys, VLIZ, Belgium
- Slawomir Sagan, IO-PAN, Poland
- Yianna Samuel-Rhoads, Oceanography Centre, Cyprus
- Andreas Villwock, IFM-GEOMAR, Germany

Marine Board support:

- Science officer: Maud Evrard
- Manager: Niamh Connolly (until March 2009);
Niall McDonough (from June 2009)

Marine Board European Scientific Diving Panel (established in 2008)

Members:

- Jean-Pierre Féral, CNRS/INSU, France - 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, IUI, Israel
- André Cattrijsse, VLIZ, Belgium
- Jouni Leinikki, Alleco Oy., Finland
- Georgio Caramanna, University of Rome, Italy

Marine Board support:

- Science officer: Aurélien Carbonnière
- Manager: Niamh Connolly (until March 2009);
Niall McDonough (from June 2009)

Annex V: Marine Board Publications (as of December 2009, including pending)**Position Papers:**

14. Science Dimensions of Ecosystem Approach to Management of Biotic Ocean Resources (pending, foreseen: May 2010)
13. The Effects of Anthropogenic Sounds on Marine Mammals (June 2008)
12. Remote Sensing of Shelf Sea Ecosystems (February 2008)
11. Marine Board Responses to the EC's Green Papers on: Maritime Policy, and the ERA (November 2007)
10. European Ocean Research Fleets - Towards a Common Strategy and Enhanced Use (March 2007)
9. Impacts of Climate Change on the European Marine and Coastal Environment - Ecosystems Approach (March 2007)
8. Navigating the Future III (November 2006)
7. Modelling in Coastal and Shelf Seas - European Challenges (June 2005)
6. Navigating the Future II (March 2003)
5. Integrating Marine Science in Europe (November 2002)
4. Marine Biotechnology - A European Strategy for Marine Biotechnology (December 2001)
3. Navigating the Future - Towards a European Marine Research Area (March 2001)
2. Towards a European Marine Research Area (December 2000)
1. Establishing a Framework for the Implementation of Marine Biodiversity Research in Europe (May 2000)

Vision Documents:

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

Marine Board Forum Proceedings:

- 1st Marine Board Forum Marine Data Challenges from Observation to Information (15 May 2008, Ostend). Forum Proceedings

Annual Reports :

- Marine Board Annual Report 2009
- Marine Board Annual Report 2008
- Marine Board Annual Report 2007

Other Publications:

- Marine Board History and Evolution Brochure (October 2009)
- MarinERA Legacy Publication (April 2009)
- MarinERA Projects Brochure (April 2009)
- EurOCEAN 2007 (22 June 2007, Aberdeen). Conference Report and Aberdeen Declaration Editors: O'Sullivan, G., Angell-Hansen, K., Connolly, N. Marine Institute, Ireland (2007)
- Investigating Life in Extreme Environments - A European Perspective Joint Marine Board - ESF Report. Editor: Nicolas Walter (2007)
- EurOCEAN 2004 European Conference on Marine Science & Ocean Technology (10-13 May 2004, Galway). Conference Proceedings. Editors: Cieřlikiewicz, W., Connolly, N., Ollier G. & O'Sullivan G. Office for Official Publications of the European Communities (2007)
- EurOCEAN 2004. Rapporteurs' Report and Galway Declaration Editors: O'Sullivan, G., Connolly, N., Ollier, G. Marine Institute, Ireland (2004)
- Transdisciplinary Euroconference on Coastal Management Research (6-10 December 1997, San Feliu). Conference Report and Extended Abstracts. Editor: Dronkers, J. (1997)
- Mediterranean forecasting: Grand Challenges for European Cooperation in Forecasting the Behaviour and Characteristics of the Oceans (21 - 26 October 1995, La Londe Les Maures) Conference proceedings (1995)

EMaPS Reports:

- A European Science Plan on Marine Biodiversity (April 1998)
- European Initiatives in Science and Technology for Deep-sea Coring and Drilling (June 1997)
- EMaPS Annual Report 1997
- A Further Step in the Coordination of Marine and Polar Science in Europe (September 1995)

Copies of Marine Board publications are downloadable from:
<http://www.esf.org/marineboard/publications>
 For hard copies (within availability in stock), please contact:
marineboard@esf.org

Annex VI: Meetings and Events organised / co-organised by the Marine Board Secretariat in 2009

12 January	Marine Board - EFARO Meeting (Brussels)
28-29 January	MarinERA Technical Committee Wrap-up Meeting (Paris)
29 January	Secretariat Meeting with Jan Mees, VLIZ and Rudy Herman, EWI (Ostend)
2-3 February	Marine Board Communications Panel Meeting (Paris)
11 February	Marine Board ExCom Meeting (Ostend)
12-13 February	MarinERA Infrastructure Workshop (Ile de Embiez)
25 February	Visit to the Secretariat from Waddah Saab, EC DG RTD (Ostend)
26 February	Meeting between Marc Heppener, ESF DSSD, and Niamh Connolly, Marine Board Secretariat (Brussels)
27 February	Visit to the Secretariat from Marc Heppener, ESF DSSD (Ostend)
3-4 March	FP7 SEAS-ERA Preparatory Meeting (Brussels)
5-6 March	Visit to the Secretariat from Niall McDonough, Marine Institute (Ostend)
18 March	Visit from Telmo Carvalho, EurOcean (Ostend)
25 March	FP7 SEAS-ERA Preparatory Meeting (Brussels)
30-31 March	Marine Board WG POL Meeting (Brussels)
1 April	Meeting with Representatives of Ukrainian Academy of Sciences (Ostend)
1-3 April	Marine Board WG SEAMBOR Meeting (Brussels)
23 April	Marine Board Communications Panel Session at EGU General Assembly (Vienna)
12 May	Secretariat meeting with Marine Board ExCom Members (Ostend)
13 May	Marine Board - ESF Meeting (Ostend)
17 May	Marine Board ExCom Meeting (Rome)
18-19 May	Marine Board Spring 2009 Plenary Meeting (Rome)
4 June	Meeting with WG POL co-Chair (Ostend)
11 June	Marine Board European Scientific Diving Panel Meeting (Brussels)
9 July	Marine Board ExCom Meeting (Brussels)
3 September	Marine Board Secretariat Meeting with Marc Heppener, ESF DSSD (Ostend)
7 September	EC CWG on Marine Biotechnology Meeting (Brussels)
16 September	Marine Board WG SEAMBOR Wrap-up Meeting (Brussels)
21 September	Marine Board - ESF - COST High Level Conference on Marine Biotechnology Organising Committee Meeting (Brussels)
22 September	Marine Board WG BIOTECH Kick-off Meeting (Brussels)
12 October	Marine Board ExCom Meeting (Sopot)
12-13 October	Marine Board Communications Panel Meeting (Sopot)
13 October	Launch of the Marine Board History and Evolution Brochure (Sopot)
13-14 October	Marine Board Autumn 2009 Plenary Meeting (Sopot)
24 November	FP7 EMAR ² RES Project Kick-off Meeting (Ostend)
11 December	Marine Board European Scientific Diving Panel Meeting (Brussels)
14-15 December	Marine Board WG POL Wrap-up Meeting (Oslo)

Annex VII: Presentations to meetings by Marine Board Executive Committee Members and Secretariat in 2009

Date	Event	Speaker(s)
12 January	Marine Board - EFARO Meeting (Brussels)	Lars Horn Antoine Dosdat Jan de Leeuw Geoffrey O'Sullivan
21 January	EC KBBE-NET Meeting (Brussels)	Jan-Bart Calewaert
28-29 January	MarinERA Technical Committee Wrap-up Meeting (Paris)	Jan-Bart Calewaert Aurélien Carbonnière Maud Evrard
2-3 February	Marine Board Communications Panel Meeting (Paris)	Maud Evrard
9 February	Aberdeen+ Task Force Meeting (Leiden)	Maud Evrard
11 February	Marine Board ExCom Meeting (Ostend)	Niamh Connolly
12-13 February	MarinERA Infrastructure Workshop (Ile des Embiez)	Aurélien Carbonnière
25 February	Visit to the Secretariat from Waddah Saab, EC DG RTD (Ostend)	Niamh Connolly Jan-Bart Calewaert Aurélien Carbonnière Maud Evrard
27 February	Visit to the Secretariat from Marc Heppener, ESF DSSD (Ostend)	Jan-Bart Calewaert Aurélien Carbonnière Dina Eparkhina Maud Evrard
3-4 March	FP7 SEAS-ERA Preparatory Meeting (Brussels)	Maud Evrard
4 March	Waterborne TP General Assembly (Brussels)	Geoffrey O'Sullivan
5 March	FP7 EMAR²RES Negotiation Meeting (Brussels)	Aurélien Carbonnière Maud Evrard
12 March	Integrated Maritime Policy Stakeholder Platform Initiation Meeting	Maud Evrard
18 March	Visit from Telmo Carvalho, EurOcean (Ostend)	Jan-Bart Calewaert Aurélien Carbonnière Maud Evrard
25 March	FP7 SEAS-ERA Preparatory Meeting (Brussels)	Maud Evrard
26 March	MarinERA Marine Sensors Workshop (Dublin)	Aurélien Carbonnière
30-31 March	Marine Board WG POL Meeting (Brussels)	Jan-Bart Calewaert

1 April	Meeting with Representatives of Ukrainian Academy of Sciences (Ostend)	Jan-Bart Calewaert Dina Eparkhina Maud Evrard
1-3 April	Marine Board WG SEAMBOR Meeting (Brussels)	Aurélien Carbonnière
13 May	Marine Board - ESF Meeting (Ostend)	Lars Horn Jan Mees Geoffrey O'Sullivan
14-15 May	ERVO Meeting (Copenhagen)	Aurélien Carbonnière
17 May	Marine Board ExCom Meeting (Rome)	Jan-Bart Calewaert Aurélien Carbonnière Dina Eparkhina Maud Evrard
18-19 May	Marine Board Spring 2009 Plenary Meeting (Rome)	Jan-Bart Calewaert Aurélien Carbonnière Dina Eparkhina Maud Evrard
19 May	EMD Stakeholder Conference Workshop on All-embracing Stakeholder Platform for a holistic Maritime Policy (Rome)	Lars Horn
26-27 May	EFARO General Assembly (Gothenburg)	Aurélien Carbonnière
11 June	Marine Board European Scientific Diving Panel Meeting (Brussels)	Aurélien Carbonnière
12 June	ESONET VISO Workshop (Tromsø)	Lars Horn
9 July	Marine Board ExCom Meeting (Brussels)	Niall McDonough
15 July	FP7 MARCOM+ Negotiation Meeting (Trondheim)	Niall McDonough Maud Evrard
3 September	Marine Board Secretariat Meeting with Marc Heppener, ESF DSSD (Ostend)	Niall McDonough Jan-Bart Calewaert Aurélien Carbonnière Dina Eparkhina Maud Evrard
7-8 September	High-level Norwegian Meeting (RCN) with DG RTD on Cross-cutting Marine Research Priorities under FP7 (Oslo)	Lars Horn Geoffrey O'Sullivan Niall McDonough
16 September	Marine Board WG SEAMBOR Wrap-up Meeting (Brussels)	Aurélien Carbonnière
22 September	Marine Board WG BIOTECH Kick-off Meeting (Brussels)	Jan-Bart Calewaert

22-23 September	IRIS Sensor Technology Workshop (Stavanger)	Aurélien Carbonnière
23-24 September	COREDES Maritime R&D Days Brokerage Event (Delft)	Niall McDonough
28-29 September	Ifremer Conference <i>From National Network to World-wide Network</i> (Paris)	Lars Horn
6 October	MEECE User Advisory Group Meeting (Amsterdam)	Niall McDonough
12 October	Marine Board ExCom Meeting (Sopot)	Niall McDonough
12-13 October	Marine Board Communications Panel Meeting (Sopot)	Maud Evrard
13 October	Launch of the Marine Board History and Evolution Brochure (Sopot)	Lars Horn Geoffrey O'Sullivan
13-14 October	Marine Board Autumn 2009 Plenary Meeting (Sopot)	Antoine Dosdat Geoffrey O'Sullivan Niall McDonough Jan-Bart Calewaert Aurélien Carbonnière Dina Eparkhina Maud Evrard
9-10 November	EurOcean 2nd Technical Meeting and 9th Steering Committee Meeting (Lisbon)	Niall McDonough
12 November	EurOCEAN 2010 Organising Committee Meeting (Ostend)	Jan Mees Niall McDonough
18 November	FP7 CAREX Project Strategic Roadmap Workshop (Ostend)	Niall McDonough
18-19 November	COST - ESF Workshop on Coastal Models Validation (Brest)	Aurélien Carbonnière
24 November	FP7 EMAR²RES Project Kick-off Meeting (Ostend)	Niall McDonough
25 November	ECORD Council Meeting (Rome)	Niall McDonough
11 December	Marine Board European Scientific Diving Panel Meeting (Brussels)	Aurélien Carbonnière
14-15 December	Marine Board WG POL Wrap-up Meeting (Oslo)	Jan-Bart Calewaert

Annex VIII: Conference / meeting booths at which the Marine Board publications were presented in 2009

Conferences and Events

- European Geosciences Union General Assembly, 19-24 April, Vienna
- European Maritime Day Stakeholder Conference, 20-21 May, Rome
- European Science Foundation General Assembly and ERAB Debate, 19-20 November, Strasbourg
- Flanders Marine Institute 10 year Anniversary Celebration, 26-27 November, Ostend

Meetings

- Meeting with ESF Director Science and Strategy Development, 27 February 2009, Ostend
- Meeting with representatives of the Ukrainian Academy of Sciences, 1 April 2009, Ostend
- EMODNET Biological Lot Kick-off Meeting, 8 June 2009, Ostend
- FP7 EMAR²RES Project Kick-off, 24 November, Ostend
- FP7 CAREX Project Strategic Roadmap Workshop and Steering Committee Meeting, 18-20 November, Ostend

Annex IX: Marine Board Member Contributions 2009

Member Organisation	Country	Contribution 2009
FWO	Belgium	6,5K
FNRS	Belgium	6,5K
COC	Cyprus	8K
FNU	Denmark	13K
EAS	Estonia	8K
AKA	Finland	13K
CNRS	France	15,5K
Ifremer	France	15,5K
DFG	Germany	15,5K
HGF	Germany	15,5K
IFM-GEOMAR	Germany	15,5K
HCMR	Greece	9K
MI	Ireland	10K
OGS	Italy	15,5K
CNR	Italy	15,5K
NWO	Netherlands	10K
KNAW	Netherlands	10K
RCN (+ IMR)	Norway	20K
UiB	Norway	10K
PAS	Poland	8K
FCT	Portugal	4K
CIMAR	Portugal	4K
INCDM	Romania	7K
IEO	Spain	10K
CSIC	Spain	10K
Havsmiljoinst	Sweden	13K
TUBITAK	Turkey	8K
NERC (+NOCS)	UK	31K
Total Member Contributions 2009		€ 327K

Annex X: Marine Board Secretariat**Secretariat Team:**

Dr Niall McDonough, Head, 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

Secretariat address:

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Web: www.esf.org/marineboard

Annex XI: Glossary

AKA	Academy of Finland
BONUS	FP6 ERA-NET for the Baltic Sea Science - Network of Funding Agencies
CAREX	Coordination Action for Research Activities on life in Extreme Environments (EC FP7 CA)
Cefas	Centre for Environment, Fisheries & Aquaculture Science (UK)
CIMAR	Centre of Marine and Environmental Research (Portugal)
CLAMER	FP7 CSA Climate Change Impacts on the Marine Environment: Research Results and Public Perception
CNR	National Research Council (Italy)
CNRS	National Center for Scientific Research (France)
COC	Cyprus Oceanography Centre
COST	European Cooperation in the field of Scientific and Technical Research
CPMR	Conference of Peripheral Maritime Regions
CSA	Coordination Support Action (EU FP Scheme)
CSIC	National Research Council (Spain)
CWG	Collaborative Working Group (EC Instrument)
DFG	German Research Foundation
DFO-MPO	Fisheries and Oceans Canada
DG MARE	DG Maritime Affairs and Fisheries (European Commission)
DG RTD	DG Research and Technological Development (European Commission)
DG	Directorate General (European Commission)
DTU Aqua	National Institute for Aquatic Resources (Denmark)
EAS	Estonian Academy of Sciences
EC	European Commission
ECORD	European Consortium for Ocean Research Drilling
EFARO	European Fisheries and Aquaculture Research Organisations
EGU	European Geosciences Union
EMaPS	European Marine and Polar Science
EMAR²RES	FP7 CSA Cooperation between the Communities of European MARine and MARitime REsearch and Science
EMD	European Maritime Day
EMODNET	European Marine Observation and Data Network
EP	European Parliament
ERA	European Research Area
ERA-NET	European Research Area Network (EC FP Scheme)
ERVO	European Research Vessel Operator
ESF	European Science Foundation
ESF DSSD	ESF Director of Science and Strategy Development
ESOF	Euroscience Open Forum
ESONET	European Seas Observatory Network of Excellence (EC FP6 NoE)
EU	European Union

EurOCEAN	European Conference series on Marine Science and Technology
EurOcean	Internet portal on marine science and technology
EUROFLEETS	FP7 I3 Towards an Alliance of European Fleets
EuroGOOS	European Global Ocean Observing Systems
EWI	Integrating Economy, Science and Innovation (Flemish Government, Belgium)
ExCom	Marine Board Executive Committee
FCT	Foundation for Science and Technology (Portugal)
FEUFAR	Future of European Fisheries and Aquaculture Research
FNRS	National Fund for Scientific Research (Belgium)
FNU	Council for Independence Research (Denmark)
FP	EU Framework Programme for Research and Technological Development
FTE	Full-time Equivalent
FWO	Fund for Scientific Research - Flanders (Belgium)
GU	University of Gothenburg (Sweden)
HCMR	Hellenic Centre for Marine Research (Greece)
HERMIONE	FP7 IP Hotspot Ecosystem Research and Man's Impact ON European seas
HGF	Association of National Research Centres (Germany)
I3	Integrated Infrastructure Initiative (EU FP Scheme)
ICES	International Council for the Exploration of the Sea
IEO	Spanish Institute of Oceanography
IFM-GEOMAR	Leibniz Institute of Marine Sciences at the University of Kiel (Germany)
Ifremer	French Research Institute for Exploitation of the Sea
IMP	Integrated Maritime Policy for the European Union
IMR	Institute of Marine Research (Norway)
INCDM	National Institute for Marine Research and Development "Grigore Antipa" (Romania)
INSU	National Institute for Earth Sciences and Astronomy, CNRS (France)
IO-PAN	Institute of Oceanology of the Polish Academy of Sciences
IP	Integrated Project (EU FP Scheme)
IPIMAR	National Research Institute on Agriculture and Fisheries (Portugal)
IRIS	International Research Institute of Stavanger (Norway)
IUI	Interuniversity Institute for Marine Science in Eilat (Israel)
KBBE-NET	EC Knowledge Based Bio-Economy Network
KNAW	Royal Netherlands Academy of Arts and Sciences
MARCOM+	FP7 CSA Towards an Integrated Marine and Maritime Science Community
MarinERA	FP6 ERA-NET project Facilitating Cooperation between National Marine RTD Programmes in Europe
MARUM	Centre for Marine Environmental Sciences (Germany)
MBCP	Marine Board Communications Panel
MEECE	Marine Ecosystem Evolution in a Changing Environment
MI	Irish Marine Institute

MO	Marine Board Member Organisation
MUMM	Management Unit of the North Sea Mathematical Models and the Scheldt estuary (Belgium)
NERC	Natural Environment Research Council (UK)
NIOZ	Royal Netherlands Institute for Sea Research
NOCS	National Oceanography Centre, Southampton (UK)
NoE	Network of Excellence (EU FP Scheme)
NTNU	Norwegian University of Science and Technology
NUI	National University of Ireland
NWO	Netherlands Organisation for Scientific Research
OGS	National Institute of Oceanography and Experimental Geophysics
RBINS	Royal Belgian Institute for Natural Sciences
RCN	Research Council of Norway
RTD	Research and Technological Development
SAMS	Scottish Association for Marine Science
SEAS-ERA	FP7 overarching marine ERA-NET (proposal)
TP	Technology Platform
TUBITAK	Scientific and Technological Research Council of Turkey
UiB	University of Bergen
UK	United Kingdom
VG	Vision Group (Marine Board Instrument)
VLIZ	Flanders Marine Institute (Belgium)
Wageningen UR	Wageningen University and Research Centre (Netherlands)
WG	Working Group (Marine Board Instrument)
WG BIOTECH	Marine Board Working Group Marine Biotechnology: A European Strategy for Marine Biotechnology
WG MICROCEAN	Marine Board Working Group Marine Microbial Biology
WG MPA	Marine Board Working Group Marine Protected Areas
WG POL	Marine Board Working Group Existing and Emerging Chemical Pollutants in the Marine Environment
WG SEAMBOR	Marine Board Working Group Science Dimensions of Ecosystem Approach to Management of Biotic Ocean Resources

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