EurOcean – The European Centre for Information on Marine Science and Technology, established in 2002, is an independent scientific non-governmental organisation of leading European marine organisations whose aim is to facilitate information exchange and generate value-added products in the field of marine sciences and technologies between a wide range of governmental and non-governmental bodies. In 2016, EurOcean represented 13 Member organisations based in 11 European countries and three Cooperating Members.

EurOcean, a clearing house for information on marine science and technology in Europe, through its internet site (www.eurocean.org) facilitates access to information on topics related to marine sciences and technology in Europe with priority given to three main domains: Marine Research Infrastructures, Marine Knowledge Management and Ocean Public Outreach and Education Activities. EurOcean also contributes to initiatives aiming to promote the Blue Society principles.

EurOcean also provides dedicated services and project contributions in relation with the above topics.
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01. Message from the Presidents

Ricardo Serrão Santos
(IRCT Member Representative, Portugal)
EurOcean President 2012-2016

EurOcean aims to be a leader in the area of marine knowledge management in Europe

The year 2016 was my fourth and last year as President of EurOcean, a role that I believe I accomplished with efficiency but based on the strong legacy I inherited. During these years I was lucky to have the support of Vice-Presidents Jean-François Masset and Slawomir Sagan two very engaged, committed and dedicated friends and colleagues.

This is a time to remember the legacy of the conceptual broker and policy driver of EurOcean, my good friend, Mário Ruivo, who sadly died in January 2017. He touched me very deeply as a fighter, visionary and champion for the Ocean agenda. Without his willingness and his capacity to involve others, like Salvino Busuttil and Jean-François Minster, I believe that EurOcean would never have existed. Mário left an indelible mark on all of us and his wisdom and ideas in relation to increasing scientific knowledge and good governance of the Ocean will last long into the future.

The Ocean agenda is of major importance to Europe. I believe that it needs to be kept high in the scientific and political priorities in the years to come. Our planet faces many challenges of which climate change and global warming are probably the most critical. We are all well aware of the major role that the ocean plays in climate but we are also aware of the threats it faces. The resolution and agreement reached in Paris at the COP21 in 2015 was a major achievement and a big hope that, through international cooperation, we finally will be able to keep global warming at a level that ensures viable life on Earth as we know it, and will protect the future of humanity together with our fellow species.

Now that I am stepping down as President of EurOcean, I am absolutely confident that it will continue to fulfil its role in contributing to the implementation of the Marine European Research Area and the Integrated Maritime Policy in a global perspective and in times of change. With Slawomir Sagan as the new president and Tina Mertens and Carlos García-Soto as Vice-Presidents we will have a very strong and committed leadership prepared to face the major challenges ahead. In addition the ongoing commitment of all of the Office Staff, with Ned Dwyer as Executive-Director, ensures that we will continue to navigate in the right direction in the years to come.

This is not a goodbye. I will continue to collaborate with EurOcean and its Members in different ways in the future. The Ocean will remain at the centre of my engagement and activity as a Member of the European Parliament and EurOcean will be a prime organization on which I will continue to rely.
Two big subjects were high on the European and global marine research and policy agenda during 2016. Climate Change has been the focus of research activity for quite a few years, but, surprisingly, the recognition of the ocean’s role in this process has only come relatively recently. It has resulted in the opening of funding lines and marine research targeted on better understanding of processes in the ocean related to observed changes of the climate. The second area of interest, encompassed in the term “Blue Growth”, aims at economic exploitation of ocean resources. This ever growing focus on the marine environment leads to increased production of information and knowledge about the ocean, a result of numerous research activities, driven by scientific curiosity as well as the prospect of economic development. This sea of new information and knowledge is the natural environment for knowledge exchange.

In 2016 EurOcean continued to provide information on marine science and technology in a timely and reliable way, expanding the scope of maintained databases and refining their content, to meet the needs of the European marine research community. On behalf of the EurOcean Members I would like to express our gratitude for their commitment and for their relentless efforts which helped bring EurOcean to its current highly regarded status.

Enjoying the trust of EurOcean Members, I was elected as the new President of EurOcean and Tina Mertens and Carlos García-Soto as the Vice-Presidents. Our Executive-Director, Ned Dwyer had his contract renewed unanimously for the next term.

2016 was a year of change at the head of EurOcean. The President from 2012, Ricardo Serrão Santos stepped down after his second term as well as Vice-President Jean-François Massart, who has started a new chapter of his life in retirement. On behalf of the EurOcean Members I would like to express our gratitude for their commitment and for their relentless efforts which helped bring EurOcean to its current highly regarded position.

With change occurring at an ever greater pace, staying fresh and up to date is important to remain visible and relevant. In this regard, 2016 saw EurOcean update its logo, branding and website, presenting a modern image and a new look website. Despite the importance of image, it is the quality and reliability of the underlying information which is paramount. Two of EurOcean’s Infobases, the Research Infrastructures Database (RID) and the Marine Knowledge Gate, reference points for relevant and comprehensive marine information, are currently undergoing a major upgrade to be launched in 2017.

Boosting the knowledge economy in Europe is one of the keys to strengthening its economic development. This was the context in which EurOcean, with its cooperating member the Conference of Peripheral Maritime Regions (CPMR), organised an event at the European Parliament focussing on “Marine Research Knowledge Exchange for Blue Growth”. It was chaired by EurOcean former President and MEP, Ricardo Serrão Santos and highlighted many good practices and successful efforts. Nonetheless it showed that much remains to be done in supporting, improving and institutionalising marine knowledge transfer.

The competition helps to foster the interest, ingenuity and commitment of the next generation and we saw how those who participated became advocates for the ocean among their peers and in their communities.

However, a few weeks after the award of the prize it was with great sadness that in January 2017 we learned of the death of Professor Mário Ruivo, a EurOcean Founder and First President. Those of us who had the privilege to meet, discuss and work with him know of his commitment to ocean issues throughout his long working life.

Success in H2020 was evident as work started on MARINA, which is embedding Responsible Research and Innovation (RRI) in the marine sphere, and two new projects: INTAROS, which will develop an integrated Arctic Observing system; and MARNET 2, an offshore renewable energy infrastructures project. Indeed, how to improve trans-national access to marine research infrastructures was the topic of a EurOcean organised workshop in November, which also discussed participants’ expectations in relation to the European Ocean Observing System (EOOS).

It was a time of changing faces at EurOcean, as Sofia Cardoso moved on to new challenges within FCT after 6 years of dedication and commitment to the organisation and Tiago Garcia, with a background in marine research and communications joined the team.

I sincerely thank Ricardo Serrão Santos and Jean-François Massart, who have stepped down from their roles as President and Vice-President respectively, for their encouragement, support and good advice over the last two years and I look forward to working with the newly elected Executive Committee of Slawomir Sagan, Tina Mertens and Carlos García-Soto, who I am sure will bring new perspectives and great ideas to the ongoing development of EurOcean.
02. 2016 Highlights

Knowledge Exchange in Spotlight at European Parliament
- EurOcean organised event where MEPs, Commission representatives and other stakeholders discuss how to support marine research knowledge exchange for Blue Growth.  
(p. 26)

Professor Mário Ruivo Prize Awarded
- Winning entry addressed marine litter; two special commendations also awarded.  
(p. 33)

Research Infrastructures Database upgrade
- Major development of Research Infrastructures Database underway with support of Member IOPAN.  
(p. 37)

H2020 Success with three new projects
- Proposals in the areas of responsible research and innovation (MARINA), Arctic observations (INTAROS) and marine renewable energy (MARINET 2) successful.  
(p. 22, 37)

New Branding and Website Launched
- A new logo, branding materials and a new-look website were unveiled.  
(p. 35)

IOC renews cooperating member status
- UNESCO’s Intergovernmental Oceanographic Commission reinforces its relationship with EurOcean.  
(p. 14)
In 2016, EurOcean had 13 Member organisations from eleven European countries and maintains agreements with three Cooperating Members. A full list of EurOcean Members is available in Annex 1 of this report.

In 2001 the Portuguese Foundation for Science and Technology (FCT) and the French Research Institute for Exploitation of the Sea (Ifremer) signed a cooperation agreement to set up the European Centre for Information on Marine Science and Technology - EurOcean, with the main goal of creating a stable and independent scientific non-governmental structure that would make relevant historical and current information on marine science and technology in Europe available on a permanent basis.

In February 2002 EurOcean was officially created in Lisbon, Portugal, and since then it has evolved into a flexible, dynamic, innovative and creative organisation that builds on its membership and the broader marine science community to bridge the gaps in marine science and technology in Europe. Priority is given to three main domains: Marine Research Infrastructures; Marine Knowledge Management and Ocean Public Outreach and Education Activities.

Structure and Governance

EurOcean is an independent pan-European network of leading national, regional and European organisations active in marine science, technology and related activities, such as coordination, decision-making, financing, information management and dissemination to a large variety of end-users. The diverse nature of EurOcean Member organisations (marine research, research funding and marine public outreach organisations) makes it uniquely capable of promoting information exchange and delivering relevant products in all fields of marine science and technology, particularly in EurOcean’s three main lines of work.

In 2016, EurOcean had 13 Member organisations from eleven European countries and maintains agreements with three Cooperating Members. A full list of EurOcean Members is available in Annex 1 of this report.

Member Organisations and Delegates

The Member organisations are legally bound through a Memorandum of Understanding (MoU) that remains in force for four years. As the Member organisations’ CEOs reiterated their commitment in 2016 the current MoU is in force until mid-2020.

Representatives of the Member organisations (Steering Committee) constitute EurOcean’s main decision-making body and establish, among other things, (i) strategic and policy guidelines and (ii) operational guidelines, including approval of the Yearly Work Programme. The EurOcean Executive-Director is also an ex-officio member of the Steering Committee.

The Steering Committee normally meets once a year in a plenary meeting to define common priorities, agree on the Yearly Work Programme, including the main products, and to share knowledge. A Member Representative may nominate another person to represent them at the annual plenary meeting. In 2016 the Steering Committee met in Sopot, Poland on 15-16 November.
Cooperating Membership is open to organisations with a regional or global reach that are involved in activities complementary to those of EurOcean, UNESCO’s Intergovernmental Commission (IOC) (http://ioc-unesco.org/) or a like such organization and if renewed its cooperating membership status for the next four years. The IOC has a global remit and is focussed on addressing ecosystem health, climate change impacts, improved early warning systems and outreach and education among other topics. EurOcean and IOC cooperate by sharing information on activities and events through their websites and newsletters, participating in and co-organising events, and looking for mutually relevant project opportunities. You can find out more about the benefits of EurOcean membership and cooperating membership at http://www.eurocean.org or contact the Executive-Director for more information.

EurOcean Foundation Board

EurOcean is legally set up as a foundation, which was established under Dutch Law on 13 December 2007. Since January 2009, the EurOcean Foundation has been legally registered in Portugal.

The Board of Directors meets once a year, and on 16 November 2016 (Sopot, Poland) it endorsed all the legal and financial recommendations made in the 2016 Steering Committee Meeting. Furthermore, it approved the appointment of three Board Members and the stepping down of three existing Board Members. The EurOcean Executive-Director is also an ex-officio member of the Board. EurOcean’s full list of Foundation Board members is available in Annex 2 of this report.

Following a decision taken at the 11th Steering Committee Meeting (2011), the Director and Officers Liability Insurance policy, with a limit of liability of € 500,000.00, was renewed for an additional one-year period.

Support for the NetBiome-CSA, MARINA and INTAROS projects.

Support to communications activities;

Support to the Mário Ruvio prize co-ordination;

Support to MARINA project.

EurOcean Office

The strategic and operational decisions and activities are steered by the Steering Committee and the Executive Committee are implemented by the Office. The strategic and operational decisions and activities are steered by the Steering Committee and the Executive Committee are implemented by the Office.

EurOcean’s activities are overseen by the Executive Committee (ExCom), which has a President and two Vice-Presidents and, as ex-officio member, EurOcean’s Executive-Director.

ExCom members are elected by the EurOcean Members (Steering Committee) for a two-year term, renewable once if re-elected. EurOcean’s ExCom Officers, appointed in 2014, were: President - Ricard Sádeo Santos (FCT - Portugal); Vice-President - Slawomir Sagan (IODAN - Poland); Secretary - Ennio Marsella (VLIZ - Belgium) and Tascha García-Soto (FCT fellowship, from September 2016).

The ExCom meets twice annually – in 2016 these meetings were in May and November – to follow up on implementation of the Work Programme approved by the Steering Committee in the annual plenary meeting.

EurOcean Office

The strategic and operational decisions and activities are steered by the Steering Committee and the Executive Committee are implemented by the Office. EurOcean’s Office staff in 2016 comprised an Executive-Director, an Office Coordinator and European Project Managers, a European Project Manager and three Science Officers. The main responsibilities of EurOcean’s staff are presented in this table.

IOC renews cooperating Member Status

Cooperating Membership is open to organisations with a regional or global reach that are involved in activities complementary to those of EurOcean, UNESCO’s Intergovernmental Commission (IOC) (http://ioc-unesco.org/) or a like such organization and if renewed its cooperating membership status for the next four years. The IOC has a global remit and is focused on addressing ecosystem health, climate change impacts, improved early warning systems and outreach and education among other topics. EurOcean and IOC cooperate by sharing information on activities and events through their websites and newsletters, participating in and co-organising events, and looking for mutually relevant project opportunities. You can find out more about the benefits of EurOcean membership and cooperating membership at http://www.eurocean.org or contact the Executive-Director for more information.

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Executive Committee

Ricardo Sádeo Santos (FCT - Portugal)
Ennio Marsella (VLIZ - Belgium)
Angela Schultz-Zehden (NL/FR, Batsto region)

Jean-François Masset (Ifremer - France)
Carlos García-Soto (IOPAN - Poland)
Stefania Carbone (FCT, fellowship, from 16 September 2016)

Ned Dyer Executive-Director (EurOcean contract)
Antonella Vassalo Office Coordinator
Romania)

Stéphane Batisse Science Officer (IGC Fellowship, from September 2016)

Sandra Sá Business Manager of the COLUMBUS project; Legal, Administrative and Financial Support
Ned Dyer Executive-Director (EurOcean contract)

Ruth Higgins Science Officer (FCT Fellowship)

Stefania Carbone Science Officer (EurOcean contract)

- Support for the information management on: 
  - Marine Infrastructures, 
  - Public Outreach, 
  - Education and training, 
  - Job Opportunities; 
  - Responsible for the OCEUS and support of the INTAROS and MABINA projects; 
  - Responsible for the DFO website; 
  - Responsible for the BVO website.

- Support for legal, administrative and financial issues;
- Support for communications activities;
- Support to MARINA project.

- Support for the implementation of the approved work programme;
- Supervision of the Office;
- Identification of new areas of activity;
- Identification of new possibilities of cooperation and Membership;
- Identification of participation opportunities in European Projects and development of the selected proposals;
- Supervisor and manager of the NetBiome-CSA MARINA and INTAROS projects.

Programme approved by the Steering Committee in the annual May and November – to follow up on implementation of the Work Programme.

Following a decision taken at the 11th Steering Committee Meeting (2011), the Director and Officers Liability Insurance policy, with a limit of liability of € 500,000.00, was renewed for an additional one-year period.

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The ExCom meets twice annually – in 2016 these meetings were in May and November – to follow up on implementation of the Work Programme approved by the Steering Committee in the annual plenary meeting.
Marine Research Infrastructures are one of the main focus areas of EurOcean and since 2006 it has developed and maintained several relevant information Infobases.

Marine Research Infrastructures Database V 2.0 – EurOcean_RID
http://rid.eurocean.org

A major activity in 2016 was the development towards one integrated database (RID 2.0) based on the existing set of databases. The upgraded InfoBase will provide a dynamic structure with a core module and additional specialised modules developed from the existing databases, containing more detailed information on research vessels, large exchangeable equipment and aquaculture facilities respectively. The data model to be used for the new InfoBase, conceptualised and developed by EurOcean member IPAN, will ensure coherence of data and compatibility with ISO and other standards being used by the oceanographic community. Reduced redundancy of data across modules and reference to the vocabularies provided by SeaDataNet reduce resources required for the database management and enhances the overall quality of information provided to users. The enhanced user interface should also make it easier for users to find information. The new database will be launched in 2017.

In the meantime, research infrastructure information can be found in the current EurOcean_RID and its other related databases, namely the European Research Vessels InfoBase (EurOcean_RV), the European Large Exchangeable Instruments InfoBase (EurOcean_LEXI) and the European Aquaculture Experimental and Research Facilities InfoBase (EurOcean_AF).

Marine Research Infrastructures Database – EurOcean_RID
http://rid.eurocean.org

Launched in 2013 in collaboration with CSA Oceans-JPI Oceans (EU-funded project) and IFREMER-ESA (EU-funded project), EurOcean_RID offers a comprehensive inventory of all European marine dedicated research facilities, providing summary information for each facility as well as operator contact information.

The InfoBase currently contains a total of 920 records classified in 6 categories, from 34 European countries as well as from Cabo Verde, the Philippines and the USA.

EurOcean RID catalogues more than 900 marine research infrastructures
What is ESFRI? Has the BONUS initiative in the Baltic been successful? How is access to coastal observatories being improved through JERICO NEXT? These and other issues regarding marine research infrastructure were topics of discussion at the workshop organised during EurOcean’s Steering Committee on the 15th November at COPAN’s facilities in Sopot, Poland.

Conclusions from the workshop included the need to underline the role that research vessels have in supporting the development of a European Ocean Observing System (EOOS) and that ERVO can help advocate for this. That alternative and more flexible approaches to transnational access to marine research infrastructure need to be considered in future research framework programmes; that the BONUS experience as captured in a publicly available cookbook can be of value or other regional sea basin initiatives and that EurOcean’s Research Infrastructures Database is an invaluable resource as it has long-term sustainable support.

A discussion document on the outcomes of the workshop and video recordings of all presentations and discussions are available via the EurOcean website: http://www.eurocean.org/.
Networking

EurOcean continued its important partnerships with the European Research Vessels Operators (ERVO) group (since 2008) and the Ocean Facilities Exchange Group (OFEG) (since 2011). The partnership supports the regular update of EurOcean’s Infobases and OFEG represent the main infrastructures owners/operators and EurOcean provides services to support both groups’ activities.

In the case of the ERVO group, EurOcean has been responsible for the technical management, maintenance and content of the website, and carried out a significant website re-design in 2016, as well as facilitating the flow of information among ERVO members. EurOcean is an observer on the ERVO Executive Committee and in 2016 attended the annual ERVO meeting in Rhodes, Greece, where part of the discussions focussed on main infrastructures owners/operators and EurOcean provides services to support both groups’ activities.

The INMARTECH conference held in Bergen, Norway and organised by EurOcean Member MRI was attended by Ned Dwyer and Tiago Garcia. Ned presented on the development of the new Research Infrastructures Database (RID 2.0) and EurOcean also hosted a stand where it presented its activities and projects to the many attendees. Tiago Garcia attended the IMOS conference in Gdansk, Poland, where he also presented the new Research Infrastructures Database (RID 2.0), which was developed with the help of EurOcean Member IOPAN, the main organiser of the conference.

As part of the OFEG Group service contract, EurOcean continued to host and maintain the Group’s website.

European Projects

Marine Research Infrastructures is also the focus of EurOcean’s participation in several European funded projects such as the FP7 EUROFLEETS2 and the H2020 INTAROS and MARINET2 projects. While EUROFLEETS2 deals with coordinating usage of Europe’s research fleet, INTAROS, one of the biggest EU investments in Arctic science focuses on observation systems and MARINET2 on offshore renewable energy research infrastructures.

EUROFLEETS2 – New Operational Steps Towards an alliance of European Research Fleets

Type: FP7 INFRASTRUCTURES – Research Infrastructures
EC financial contribution: €9 million
Duration: 48 months (1 March 2013 - 28 February 2017)
Coordinator: Ifremer, France
Consortium: 31 partners from 20 countries
Website: www.eurofleets.eu

Aims of the project

EUROFLEETS2 aims to consolidate a cooperation strategy for optimising the sharing and use of research vessels, including polar going ones in Europe. It will enhance transnational access to ships, implement common procedures and facilitate operational interoperability in marine research tools and equipment.

EurOcean Major 2016 Achievements

- • Promotion of the EUROFLEETS2 project at the 2016 European Maritime Day.
- • Compilation and publication of the 10th EUROFLEETS2 eNewsletter.
- • Facilitating the development of a video as part of the Island cruise in the Mediterranean, funded through the trans-national activities of the project.
- • Reporting on communication and outreach progress including public website visit statistics.
- • Development of dedicated promotional materials for EUROFLEETS2 Final Conference.
- • Promotion of the EUROFLEETS2 project at the 2016 European Maritime Day.

EurOcean’s involvement

EurOcean’s major role is in relation to communication and outreach activities, including website maintenance and update, compiling the eNewsletter and generating materials to publicise the project. It is also responsible for the management and update of the Research Vessels and Large Exchangeable Instruments Infobases and in assisting with the fostering of industrial partnerships. Furthermore it sits on the project’s Executive Committee.
**MARINET 2 – Marine Renewable Infrastructure Network for Enhancing Technologies 2**

**Type:** EC H2020 Integrating Research Infrastructure Activities for Advanced Communities

**EC financial contribution:** €10.5 million

**Duration:** 54 months (1 January 2017 - 30 June 2021)

**Coordinator:** UCC, Ireland

**Consortium:** 39 partners from 13 countries

**Website:** www.marinet2.eu

**Aims of the project**

MARINET 2 will ensure the continued integration and enhancement of all leading European research infrastructure and facilities specialising in research, development and testing of offshore renewable energy systems including electrical sub-systems and grid integration through a range of Technology Readiness Levels (TRLs). EurOcean is facilitating access to the EurOcean_RID as the repository for information on relevant infrastructures.

**EurOcean’s involvement**

EurOcean’s role is in relation to the development and implementation of the infrastructure. In particular, EurOcean will facilitate seamless access to its Research Infrastructures Database (RID 2.0) as the repository of relevant marine infrastructures to be used within the project.

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**INTEGRATED ARTIC OBSERVATION SYSTEM (INTAROS)**

**Type:** EC H2020 Research and Innovation Action

**EC financial contribution:** €15.5 million

**Duration:** 48 months (1 December 2016 - 30 November 2021)

**Coordinator:** NERSC, Norway

**Consortium:** 49 partners from 20 countries

**Website:** www.intaros.eu

**Aims of the project**

The overall objective is to develop an Integrated Arctic Observation System (ACOS) by extending, improving and catalysing existing systems in the different regions of the Arctic. INTAROS will have a strong multidisciplinary focus, with tools for integration of data from atmosphere, ocean, cryosphere and terrestrial sciences, provided by institutions in Europe, North America and Asia. The project will include development of community-based observing systems, where local knowledge is merged with scientific data.

**EurOcean’s involvement**

EurOcean’s key role is as co-lead of the activities in relation to dissemination and communication, with particular responsibilities for the website development and maintenance, compiling the newsletter and generating materials to publicise the project. It will also lead activities in relation to outreach, decision-makers and relevant Arctic and International bodies as well as overseeing the development of training for early career scientists and the establishment of a Pan-Arctic Observing Forum.

**EurOcean Major 2016 Achievements**

- Development of a project identity including logo and a project brochure.
- Participation in the project kick-off meeting.

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**Proposal Contributions**

**MARVOlc – SubMARine Volcanoes European colLabOration Uniting experts and Society**

EurOcean was invited by the National & Kapodistrian University of Athens, Greece to participate in the COST action bringing together experts on both science and technology related to submarine volcanoes. The outcome of the evaluation is expected in June 2017. If successful, it contributes significantly in terms of networking and links to the infrastructures aspects of EurOcean’s work.

**COCOS – Copernicus Coastal Service**

EurOcean was invited by ACRI-HE, France to participate in this proposal as a response to the call H2020-EO3-2016 on “Evolution of Copernicus Services”. The project proposed to evaluate and demonstrate the needs, feasibility and reliability of three new prototype service lines incorporating satellite derived information for the benefit of Coastal Zone activities. EurOcean’s role was in relation to leading on Communications and definition of the final service. Unfortunately, the proposal was not successful in this very competitive call.
Marine Knowledge Management is a priority line of EurOcean’s work and encompasses the following main functions:

- facilitating access to valuable information related to research activities and technological development, in cooperation with existing national and European institutions and programmes;
- compiling and organizing information on the main trends of marine science and technology;
- contributing to the preparation of synthesis reports at the request of decision-makers.

In 2016, the main Knowledge Management activities included:

Marine Knowledge Gate 2.0 - EurOcean_KG
http://www.kg.eurocean.org/

Marine Knowledge Gate 2.0 provides an inventory not only of over 2,550 European funded Marine Science and Technology Projects (from more than 20 programmes) and approximately 2,300 knowledge elements generated (“Knowledge Outputs” or KOs), but also approximately 3,500 nationally funded marine research projects (collected from more than 80 different information sources in 25 European coastal countries).

In 2016 Marine Knowledge Gate 2.0 was updated with over 100 H2020 projects and over 500 Knowledge Outputs (KOs) mainly from the FP7 Ocean of Tomorrow projects collected through EurOcean participation in the H2020 COLUMBUS project.

Upgrade of the EurOcean_KG will be a priority activity for 2017, therefore a scoping study was carried out during the year through consultation with the EurOcean Steering Committee, the H2020 COLUMBUS consortium including its External Advisory Board and via a dedicated online questionnaire aimed at existing EurOcean_KG users and website visitors. The scoping study is being carried out in the context of significant external developments in relation to marine knowledge management and provision. These include the launching of the European Commission’s Information Sharing Platform on Marine and Maritime Research and the generation of numerous Knowledge Outputs (KOs) through the H2020 COLUMBUS project.
Supporting Marine Research Knowledge Exchange for Blue Growth

Building trust and facilitating real collaboration between research and industrial communities is conducive to knowledge transfer. Marine clusters in different parts of Europe are successfully implementing activities to make this happen. These were just some of the conclusions from the EurOcean and the Conference of Peripheral Maritime Regions (CPMR) - Coordinating Member - organised workshop held in October at the European Parliament. It was chaired by MEP and former EurOcean President Ricardo Santa Santa and brought together numerous EurOcean member representatives, policy makers, scientific communities, industry and other stakeholders.

Speakers included MEP Gesine Meissner, DG Research & Innovation and DG MARE representatives, the SUBMARINER Network Managing Director, the COLUMBUS project coordinating member, the EurOcean Executive-Director as well as representatives from marine clusters, projects and regions. A report on the event is available through the EurOcean website: http://www.eurocean.org

With its Marine Knowledge Gate, EurOcean is facilitating access to information from a range of sources on research projects and their outputs and this can underpin access to information from a range of sources on research projects and their outputs and this can underpin access to information from a range of sources on research projects and their outputs and this can underpin access to information from a range of sources on research projects and their outputs.

Networking

Cristina Costa attended the first Blue Economy and Science Forum in Hamburg, organised by DG MARE to address Blue Growth Challenges. Over 200 Blue Economy stakeholders gathered to discuss and propose solutions on how to boost European competitiveness, to increase collaboration with industrial sectors and how to demonstrate value of the innovative technologies. Moreover, the event was also the stage for awarding the Blue Economy Business Awards 2016, where EurOcean Member, the SUBMARINER Network’s managing director Angela Schub-Zahoden received the “Woman of the year in the Blue Economy” award.

Ned Dwyer attended the IFARO Blue Growth and Innovation seminar which was organised by the European Fisheries & Aquaculture Organisation. It provided an opportunity to discuss Blue Growth issues in the sector and to raise awareness of EurOcean among IFARO Members.

The potential for marine clusters to work more closely with the space sector was discussed during a workshop in Paris on “Combining Innovation Networks in Maritime and Space Event”. Ned Dwyer participated in this stakeholder event, organised by University College Cork (UCC), Ireland and Forum Oceano, Portugal. Ned was instrumental in writing the proposal for this

European Projects

Marine Knowledge Management was also addressed through participation in several H2020 and FP7 funded projects, namely: COLUMBUS, RISC-KIT, and NetHome-CSA, which concluded during the year.

Database Hosting

As part of its work in Marine Knowledge Management, EurOcean offers a hosting service for databases of relevance that were created within ongoing or concluded projects funded through various European programmes. At the moment it hosts CIRCLE-2 (http://infobase.circle-era.eu/), a database of national and European funded climate adaptation projects (funded under FP7).

European Space Agency funded project, whilst still working at UCC. The findings of the project will be made publically available via www.cirmars.org.

EurOcean maintains a close and complementary relationship with the European Marine Board. Ned Dwyer was invited as a guest to present during the Organisation’s Spring Plenary, hosted by IOPAN in Sopot, Poland. It also provided an occasion to network with EMB Members and clarify EurOcean’s role within the ecosystem of marine organisations in Europe.

Aims of the project

COLUMBUS aims to ensure that applicable knowledge generated through EC-funded science and technology research can be transferred effectively to advance the governance of the marine and maritime sectors while improving competitiveness of European companies and unlocking the potential of the oceans to create future jobs and economic growth in Europe (Blue Growth).

EurOcean’s involvement

Building on its experience in MarineTT and STAGES (FP7 funded projects) EurOcean is a key partner in this project, participating in almost all work packages and with a major role in leading the identification, collection and monitoring of past and current research activity with a view to collecting Knowledge Outputs focused on a number of priority Blue Growth areas. These Knowledge Outputs will then be included in the EurOcean maintained Knowledge Gate 2.0. EurOcean’s other significant contribution is in relation to the organisation of an annual Blue Society Knowledge Transfer conference and the development of an annual Blue Society award together with EurOcean member Nousnacod.

EurOcean Major 2016 Achievements

• Report delivered on project identification and Knowledge Outputs collection for all nine thematic areas (competence nodes);
• Report delivered on identification of over 1,000 Knowledge Outputs following collection of relevant projects (1st cycle);
• Identification and update of EurOcean_KG with over 100 H2020 marine and maritime projects;
• Assessment, harmonisation and upload of the Oceans of Tomorrow validated Knowledge Outputs (circa 500) into EurOcean_KG;
• Development and regular update of a project and KO tracker for all Knowledge Transfer Phases;
• Contributed to guidelines development for the Blue Society awards.

COLUMBUS – Monitoring, Managing and Transferring Marine and Maritime Knowledge for Sustainable Blue Growth

Type: EC H2020 Blue Growth – Unlocking the Potential of Seas and Oceans
Eu financial contribution: €4 million
Duration: 36 months (1 March 2015 - 28 February 2018)
Coordinator: 27 partners from 12 countries
Coordinator: BMI, Ireland
Operational Leader: AquaTT, Ireland
Website: http://columbusproject.eu/
Aims of the project

To develop and deliver ready-to-use methods, tools and management approaches to reduce risk and increase resilience to low-frequency, high-impact hydro-meteorological events on European coasts. These products will enhance forecasting, prediction and early warning capabilities, improve the assessment of long-term coastal risk and optimise the mix of prevention, mitigation and preparedness measures.

EurOcean’s involvement

EurOcean is responsible for the dissemination and knowledge transfer activities of the project including maintenance and updates of the website, production of the regular e-newsletter, the generation of promotional materials and the organisation of stakeholder engagement and training events. EurOcean was also involved in the structuring of the database to support the Biodiversity Management Toolbox, the identification of the specific challenges to be addressed and in the stakeholder identification.

Aims of the project

NetBiome-CSA aimed to extend and strengthen research partnerships and cooperation for smart and sustainable management of tropical and subtropical biodiversity in European Outermost Regions (ORs) and Overseas Countries and Territories (OCTs), through a participative process mobilising stakeholders, their knowledge and resources for initiatives such as policy and priority analysis, multi-stakeholder dialogues, exchange of good practices, training and issuing of policy recommendations and research priorities.

EurOcean’s involvement

EurOcean led communication and dissemination activities including maintenance and updates of the website, production of the regular e-newsletter and the generation of promotional materials. EurOcean also involved in the structuring of the database to support the Biodiversity Management Toolbox, the identification of the specific challenges to be addressed and in the stakeholder identification.

EurOcean Major 2016 Achievements

- Developed two project promotional video scripts and oversaw their production. The first animated film was released in 2016 and the second testimonial film will follow in 2017;
- Compiled, edited and published e-newsletters and updates to the website, YouTube Channel and social media;
- Completed a report on the 2nd End User Day held in October 2015.

NETBIOME-CSA – Strengthening European research cooperation for smart and sustainable management of tropical and subtropical biodiversity in outermost regions and overseas countries and territories

Type: EC FP7 Environment (including Climate Change)
EU financial contribution: €1 million
Duration: 36 months (2 May 2013 - 01 May 2016)
Consortium: 13 partners from 8 countries
Coordinator: RCT, Azores, Portugal
Website: www.netbiome.eu

Students learn about improving coastal resilience

The 1st RISC-KIT Summer School, organised by EurOcean and hosted by Consorzio Futuro in Ricerca, University of Ferrara, was held in Ferrara, Italy in September 2016. The summer school brought together 19 students from all over Europe, specialising in coastal management, coastal resilience, coastal morphodynamics, socioeconomics and more.

EurOcean, as the organiser of the event, was responsible for the event promotion, acceptance of applications, supported the selection of students, correspondence with selected candidates, as well as logistical elements involved in the event organisation.

The course curriculum focused on three of the RISC-KIT tools: the Storm Impact Database, the Coastal Risk Assessment Framework, and the Web-based Management Guide. It involved theoretical and practical sessions as well as a field trip to the RISC-KIT case study site, Porto Garibaldi-Bellotticchio.

Feedback on the course was extremely positive, from both students and teaching staff. This was the first of two such events, organised by EurOcean under the Dissemination tasks on the RISC-KIT project. The 2nd “Summer” School is scheduled for January 2017 in Faro, Portugal.
Proposal Contributions

WATERMAN – Wetland Tourism and Environmental Management

The importance of wetlands in providing vital functions (e.g., flood control, water purification, recreation) for human well-being has been internationally recognised and protected by the Ramsar convention. Nonetheless, across Mediterranean coastal areas such sites are under a range of ever-growing pressures including those from tourism. This proposed project, submitted to the INTERREG V – Mediterranean call, would implement specific actions, incorporating the latest approaches from coastal zone management, to demonstrate how sustainable tourism can be developed in harmony with the protection of such sensitive areas. EurOcean was approached by IST-Maretec, Portugal to lead on the Communications work package in this project, given our experience and track-record in this area. First submitted in 2015, and resubmitted following some updates and clarifications requested by the Interreg secretariat, the proposal was highly scored, but unfortunately just below the threshold for funding.

BlueLink

EurOcean was invited by Dublin Institute of Technology, Ireland to participate in this proposal as a response to the call BG-O3-2016 on “Multi-use of the Ocean’s Marine Space”. The proposal included a systematic analysis of the barriers that inhibit spatial concentrations of compatible marine uses and which hinder the development of marine areas and Blue Growth. EurOcean was proposed to lead on the Communications WP. This was an extremely competitive call and the proposal was unsuccessful and was not retained for funding. The winning proposal entitled MUSES, involves EurOcean Member SUBMARINER Network, which lead on the activities related to the development of an action plan for multi-use in European seas.
Raising awareness of marine issues among the general public is an important goal of EurOcean and as a signatory of the Blue Society Stakeholders’ Commitment, we actively seek out opportunities to do so. The Professor Mário Ruivo prize, which was awarded for the 2nd time in 2016, is one of the cornerstones of this activity.

**Professor Mário Ruivo Prize Awarded at CommOCEAN 2016**

It was a nail-biting finish to the 2nd edition of the Professor Mário Ruivo Prize competition - named after EurOcean’s former President and Founding Father - as the three finalist teams awaited the announcement of the winning project in front of an international audience during the CommOCEAN conference held in Bruges, Belgium in December 2016. This was the culmination of the competition which ran throughout 2016 and saw 18 teams of young people from around Europe propose novel research projects, community schemes, and investigations of topical subjects through the popular media, in support of the Blue Society Principles (http://www.bluesociety.org/). All proposals were evaluated by a jury made up of EurOcean Members during summer 2016 and three teams were selected to advance to the final stage:

- **“Protecting and sustaining marine life in Ireland”**
  Ireland
  A 50-day social media campaign on marine facts such as overfishing and pollution and a public sustainable fish cooking demonstration with a famous chef was what this Irish team organized in order to promote ocean literacy in their local community and raise awareness that there is a whole ocean on their doorstep that needs to be protected.

- **“Marine public transport”**
  Malta
  The Maltese team wanted to reduce trash in the ocean and for that they changed the bins on the Maltese ferries, which had no lids, to bins that have bolted lids and separation at source. They managed to convince the ferry companies that this was a big problem that they should address.

- **“Bags with tags”**
  Ireland
  Promoting canvas tote bags and developing plastic bags that have recyclable iron filings melted into them during production and can therefore be collected by magnets strategically placed along waterways. This was how this other Irish team demonstrated with a scale model how to reduce the amount of plastic litter before it reaches the sea.

During EurOcean’s Steering Committee meeting a winner was chosen and, given the quality of all three finalists, two special commendations were also awarded. The winning project was “Bags with Tags”.

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06. Ocean Public Outreach and Education Activities
A champion of European and global marine science that will be missed

It was with great sadness that on January 24th 2017 we learned of the loss of Professor Mário Ruivo. All those involved with EurOcean remember Professor Mário Ruivo in a special way as one of the founders and first President of this organisation (2002-2008). Those of us who had the privilege to meet, discuss and work with Professor Ruivo knew of his commitment to ocean issues and his work, right up until his last days, to keep ocean matters high on the political agenda. He was always a fascinating man to speak with and had a breadth and depth of knowledge on a huge range of subjects.

He was a trained biologist specialized in Biological Oceanography and Management of Marine Living Resources. He was Director of the Division of Aquatic Resources and the Environment of the Department of Fisheries of FAO (1961-74). He was also Secretary of the Intergovernmental Oceanographic Commission (IOC) of UNESCO (1980-89) where he was elected Vice-President in 2003, and Invited Professor at the University of Porto / ICBAS (Policy, Policy and Management of Oceans). He was the President of the Portuguese National Council for Environment and Sustainable Development (CNAADS) and President of the International Oceanographic Commission of the time of his death. Professor Mário Ruivo has received numerous awards, including in 2010 when he was proclaimed Doctor “Honoris Causa” by the University of Azores, in recognition of his career achievements and in 2016 he was awarded the European Citizens’ Prize by the European Parliament.

He was one of the last of his generation that helped to shape global marine science. – Slawomi Sagan, President of EurOcean, IOPAN, Poland

“Among such a great man as Mário Ruivo lies an immense hole remains and it is so difficult to replace him.”

– Ricardo Panin, GeoEcoMar, Romania

He had unexcelable skills in all fields including languages, he was a joy to me and lovely for all of us. He will be missed.” – Gilles Leclercq, Imer, France

“Mário was a great friend and a great champion for European and global marine science. He was always sharp, wise and very active. We are grateful for a full life, but we will miss him.”

– Jan Mees, VUB

“He was a remarkable man who has left a very significant legacy to marine science in Portugal, Europe and the world.”

– Mick Gluecker, N

“He was a visionary, a man I am really glad that he was able to see EurOcean rise towards its present.”

– Carlos Gutiérrez, VSO, Vice President European Ocean, IOD, Spain

“Mário was one of the most interesting and charming people I have ever met!”

– Per Nieuwejaar, IMR, Norway

“My deepest condolences on the loss of such a great man.”

– Ennio Marsella, CNR, Italy

“Professor Mário Ruivo was very much the national and international reference in ocean governance. A wise man with a realistic view of ocean affairs, an example of life. We will miss this great ambassador of the oceans.”

– Sofia Carreira, POCI, Portugal

“He had an exceptional personality, unmarked and visionary which set the national and international agenda in regards to knowledge and governance of the oceans.”

– Ricardo Aventin Panin, former President EurOcean, Portugal

30 is always cognizant of his efforts in favouring the oceans to the forefront of the scientific, social and human agendas, and his keen interactions with persons from all disciplines, many of whom have devoted ocean ambassadors and advocates of sustainability.”

– Ann Behnham and Antonella Vassallo, IO, Malta

“Mário was one of the most interesting and charming people I have ever met!”

– Manuel Clá Nobelaco, France

A new look website was launched towards the end of 2016. This new website combines visual appeal with a rich-content structure that embodies the main aim of EurOcean to be a focal point for information on marine science and technology. The new website is responsive so works on smartphones and tablets as well as computers. It has large pictures and attractive visuals that offer a modern look combining usability and appeal. Navigation of the site was also improved.

In addition EurOcean’s newsletter is now sent to more than 5,000 subscribers on a monthly basis and contains relevant news items, funding opportunities, upcoming events and jobs listings. Those interested can subscribe easily via the website. You can also send us your news items for highlighting through our website and newsletter.

EurOcean on Social media

EurOcean expanded its presence in the social media sphere this year and in addition to Facebook, it has also set up accounts on Twitter and LinkedIn. During 2016, the number of followers on Facebook increased steadily and is now over 1,000.

https://www.facebook.com/EurOcean

https://twitter.com/eurocean_found

https://www.linkedin.com/company/eurocean

The identification, collection, aggregation, analysis and electronic dissemination of marine information are key elements of EurOcean’s activities. In this context, EurOcean’s key communications channels are its internet site and social media components.
Networking

2016 European Maritime Day Conference

The EurOcean Office participated in the 2016 European Maritime Day Stakeholder Conference, held in Turku, Finland on 18 and 19 May, with a dedicated stand displaying promotional materials and products such as the EurOcean RID and EurOcean KG InfoBases, in addition to promotional materials from the projects where EurOcean is involved. There were many visitors to the stand and much interest in EurOcean activities in particular the InfoBases. Ned Dwyer also participated as a panelist in a workshop entitled “Towards innovative data services for Blue Growth” (http://www.bluebridge-vres.eu/events/bluebridge-workshop-towards-innovative-data-services-blue-growth-european-maritime-day-2016) organised by the H2020 BlueBridge (http://www.bluebridge-vres.eu/) project consortium. EurOcean’s SUBMARINER Network also had a stand at the event.

CommOCEAN - 2nd International Marine Science Communication Conference

Ned Dwyer was invited to present on satellite applications for marine monitoring during the 2nd conference for secondary school of ocean related subjects organised by Ciência Viva under the umbrella of the H2020 SeaChange project.

EurOcean at School

Raising awareness of ocean issues, especially with younger people is part of EurOcean’s remit. During the year, staff carried out an activity in relation to highlighting the problem of and solutions for marine litter and promoted the Blue Society to a group of geography students at St. Julian’s International School near Lisbon.

EurOcean’s outgoing President Ricardo Senão Santos presented the Professor Mário Ruivo prizes during a special session at the CommOCEAN conference held in Bruges in December. EurOcean Member VLIZ and cooperating member IOC, along with the European Marine Board were the main organisers of the conference. The EurOcean office also presented a poster on “Engaging Youth Across Europe with the Ocean – Experiences from the Professor Mário Ruivo competition.” Nad Dwyer chaired one of the sessions and in addition to the conference Tiago Garcia attended a training course on communications.

European Projects

The public engagement and outreach line of activity was also pursued through participation in the H2020 MARINA project, led by EurOcean Member CNR with a focus on Responsible Research and Innovation, an approach that implies that societal actors (researchers, citizens, policy makers, business, civil society organisations, etc.) work together during the whole research and innovation process in order to align better both the process and its outcomes with the values, needs and expectations of society.

Aims of the project

The project aims to create an all-inclusive Knowledge Sharing Platform (KSP) catalysing and organising the convergence of already existing networks, communities, online platforms and services providing an online socio-technical environment that facilitates and stimulates the direct engagement of researchers, Civil Society Organisations (CSOs), citizens, industry stakeholders, policy and decision makers, research funders and communicators for improving Responsible Research and Innovation (RRI).

EurOcean’s involvement

EurOcean’s major role is leading the work package that produces the Web Knowledge Sharing Platform (KSP). This platform is being configured to allow the federation of existing knowledge, tools and services and in parallel foster the creation of the federation of the RRI communities. EurOcean is also leading a task on identifying available resources, tools and information sources of relevance to RRI and will contribute to other tasks including national and international workshop organisation aiding stakeholder dialogue.

EurOcean Major 2016 Achievements

• Completed the deliverable on user requirements for the Web Sharing Platform;
• Identified and compiled relevant marine projects and tools containing one or more Responsible Research and Innovation “keys”, for inclusion in the Platform;
• Commenced organisation of a National level Mutual Mobilisation and Learning (MML) workshop, with a focus on tourism and coastal erosion, to take place in Portugal in January 2017;
• Contributed feedback on communications and dissemination tasks, stakeholder engagement and other activities as requested.

MARINA - Marine Knowledge Sharing Platform for Federating Responsible Research and Innovation Communities

Type: EC H2020 Blue Growth – Integrating Society in Science and Innovation: Knowledge Sharing Platform
EU financial contribution: €3 million
Duration: 36 months (1 May 2016 – 30 April 2019)
Consortium: 14 partners from 11 countries
Coordinator: CNR, Italy
Website: www.marinaproject.eu
The EurOcean annual budget is based on:
- Member organisation contributions;
- European projects contracts;
- Contracts of services;
- Other contributions: e.g. deposit interests, reimbursements.

The following financial table depicts the 2016 EurOcean finances in accordance with the professional accounting principles, which at the time of this report were independently audited.
Members and Cooperating Members

International (Cooperating Members)
Conférence des Régions Périphériques Maritimes d’Europe (CRPM)
Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO)

Germany
SUBMARINER Network

France
Institut Français de Recherche pour L'exploitation de la Mer (Ifremer)
Nausicaá Centre National de la Mer (Nausicaá)

Belgium
Vlaams Instituut voor de Zee (VLIZ)

Norway
Havforskningsinstitutt (IMR)

Italy
Consiglio Nazionale delle Ricerche (CNR)

Poland
Instytut Oceanologii Polskiej Akademii Nauk (IOPAN)

Spain
Instituto Español de Oceanografía (IEO)

Portugal
Fundação para a Ciência e Tecnologia (FCT)

Malta
International Ocean Institute (IOI) (Cooperating Member)

Romania
Institutul Național de Cercetare - Dezvoltare pentru Geologie si Geocologie Marina (GeoEcoMar)

Ireland
Irish Marine Institute

Portugal
Fundo Regional para a Ciência e Tecnologia (FRCT)

Portugal
Fundo Regional para a Ciência e Tecnologia (FRCT)
EurOcean - 2016 Annual Report

EurOcean Structure

Executive Committee Composition
Until 16 November 2016:
President – Ricardo Serrão Santos, FRCT Member Representative
Vice-President – Jean-François Masset, Ifremer Member Representative
Vice-President – Slawomir Sagan, IOPAN member Representative

From 16 November 2016:
President – Slawomir Sagan, IOPAN member Representative
Vice-President – Tina Mertens, VLIZ member Representative
Vice-President – Carlos García-Soto, IEO member Representative

EurOcean Foundation Board Composition
President – Ricardo Serrão Santos
Vice-President – Jean-François Masset
Treasurer/Secretary – Nicolae Panin
Member – António Pascoal
Member – Slawomir Sagan
Member – Manuel Cira

EurOcean Office Staff
• Executive-Director
  Ned Dwyer
• Office Coordinator and European Project Manager
  Cristina Costa
• European Project Manager
  Sandra Sá
• Science Officers
  Sofia Cordeiro (until June 2016)
  Ruth Higgins
  Tiago Garcia (from September 2016)

Executive Committee
• Executive Committee Meeting
  Lisbon, Portugal – 6 May 2016

Participants

Members
Ricardo Serrão Santos
President of the EurOcean Centre; FRCT Member Representative
Jean-François Masset
Vice President of the EurOcean Centre; Ifremer Member Representative
Slawomir Sagan
Vice President of the EurOcean Centre; IOPAN Member Representative

Sopot, Poland – 14 November 2016

Participants

Members
Ned Dwyer
Executive-Director of the EurOcean Centre
Cristina Costa
Office Coordinator and European Project Manager of the EurOcean Centre
Sofia Cordeiro
Science Officer of the EurOcean Centre

17th Executive Committee Meeting
Sopot, Poland – 14 November 2016

Participants

Members
Slawomir Sagan
New President of the EurOcean Centre; IOPAN Member Representative
Tina Mertens
New Vice-President of the EurOcean Centre; VLIZ Member Representative
Carlos García-Soto
New Vice-President of the EurOcean Centre; IEO Member Representative

Steering Committee
• 16th Steering Committee Meeting
  Sopot, Poland – 15 and 16 November 2016

Participants

Members
Boawumi Sagan
New President of the EurOcean Centre; IOPAN Member Representative
Tina Mertens
New Vice-President of the EurOcean Centre; VLIZ Member Representative
Cristina Costa
Office Coordinator and European Project Manager of the EurOcean Centre
Tiago Garcia
Science Officer of the EurOcean Centre

EurOcean Foundation Board
• 9th EurOcean Foundation Board Meeting
  Sopot, Poland – 14 November 2016

Participants

Members
Ricardo Serrão Santos (represented by Slawomir Sagan)
President of the Board
Nicolae Panin
Treasurer/Secretary of the Board
Jean-François Masset
Member of the Board
Slawomir Sagan
Member of the Board
António Pascoal (represented by Slawomir Sagan)
Member of the Board

EurOcean Office
• Executive-Director
  Ned Dwyer
• Office Coordinator and European Project Manager
  Cristina Costa
• European Project Manager
  Sandra Sá
• Science Officers
  Sofia Cordeiro (until June 2016)
  Ruth Higgins
  Tiago Garcia (from September 2016)
This report is part of EurOcean's dissemination activities. EurOcean considers three types of dissemination: dissemination for awareness, for understanding and for action.

This report is intended for dissemination for understanding for groups/audiences that can benefit from the work developed and knowledge obtained by EurOcean and need to have a deeper understanding of its on-going work. The report is an initiative, development and implementation of EurOcean.

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