



ICES

International Council for
the Exploration of the Sea

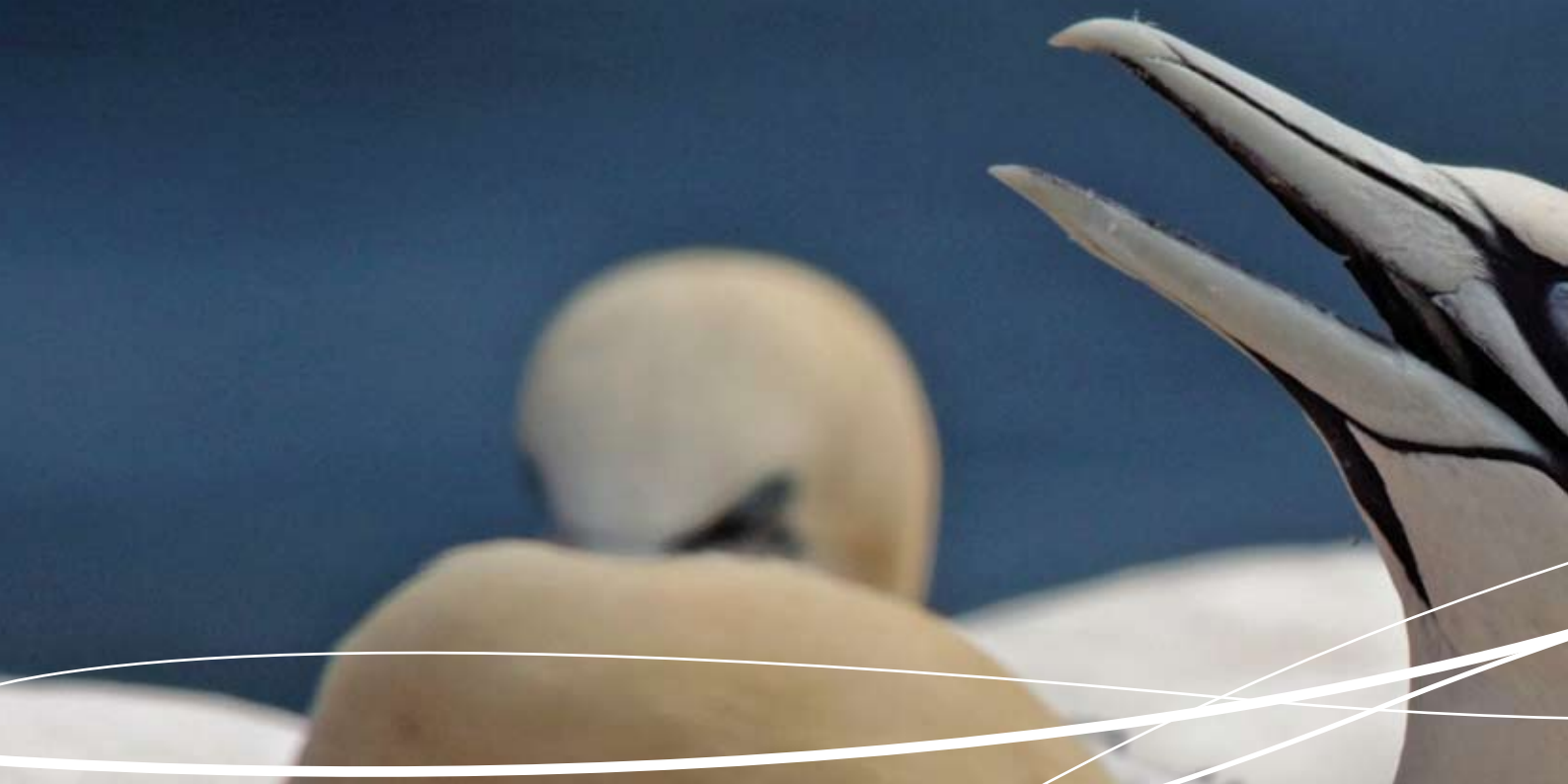
CIEM

Conseil International pour
l'Exploration de la Mer

ANNUAL REPORT 2008



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CONTENTS

Welcome	2
Advisory Programme.....	4
Science Programme.....	6
Data Centre.....	12
Publication Group.....	14
Finance Committee.....	16
ICES Council.....	16
ICES Budgets 2008–2009.....	18
Contents of the ICES Annual Report 2008 Supplementary CD-ROM	20
ICES Network Directory.....	22

WELCOME!

A few words from the General Secretary

Looking back to 2008, we are reminded that it was another very busy year for ICES. The new Advisory Services, with a completely reorganized committee and expert group structure, and the early delivery dates for advice were a challenge to the Secretariat and to the assessment scientists in all of our member institutes. I am grateful to all who contributed to making the transition so effective. Our partners in Member States, the EC, and in international conventions have responded very positively to the new procedures and products and, after the first year of activity, it is probably not too bold to say that the reform was a success.

Parallel with this major reform, the ICES Council decided to shape a new ICES Science programme and a new structure to deliver it. *ICES Science Plan* is based on the priorities of the national plans of our Member States, and it reflects the new ambitions of the organization to lead the development of future marine science programmes. The Consultative Committee, the most central and traditional component of ICES science, was reorganized to include national delegates and was renamed ICES Science Committee (SCICOM). SCICOM is now an equal partner with the Advisory Committee (ACOM) and is empowered to direct the scientific programme of ICES on behalf of the Council.

In 2008 and continuing in 2009, ICES has become a key player in implementing the European Commission's Blue Book "An Ocean of Opportunity – an Integrated Maritime Policy for the European Union". This process includes the creation of a strong marine/maritime science component within the European Research Area and implementation of the European Strategy for Marine and Maritime Research. With this new role, ICES has increased its profile and relevance enormously as the international organization that coordinates and promotes marine research in the North Atlantic.

Our mission at the Secretariat is to support the Council's activities and to facilitate the day-to-day cooperative work of ICES scientists and institutes. Although this mission requires disciplined implementation, it also calls for flexibility and resilience – two qualities that we demonstrated yet again in 2008. A Secretariat plan was developed to modernize the administrative procedures in the Secretariat and provide the basis for efficient service to our network. Further significant improvements were made in our services and facilities to meet the ambitious goals. I believe we can be proud of our performance in 2008.

Dr Gerd Hubold



ADVISORY PROGRAMME

Even driven by deadlines that were earlier by six months, the Advisory Programme produced high-quality advice on fish stocks and environmental issues, including the OSPAR–ICES work programme for 2008. The work included ecosystem requests from NEAFC. Overall, the Advisory Committee (ACOM) concluded that scientific quality of the fisheries advice matched that of previous years and environmental advice exceeded the quality of previous years.

Along with meeting new deadlines, the review system was fully applied to the environmental advice for the first time. To increase flexibility in delivering advice, ACOM introduced a PC-based web-conference system.

The Advisory Services introduced benchmarking of fish-stock assessment methodologies that generally reduced from ten to seven the number of days required by a fish-stock assessment group.

To support implementation of the new advisory structure, ACOM upgraded its strategic role, for example, by developing guidelines for each level in the advisory system.

Advisory Services continued to address challenges related to developing integrated advice, especially ecosystem and fisheries advice, and sought solutions to problems posed by reviewer recruitment and data quality control. As noted in the *Annual Report's* Data section, the introduction of InterCatch as an ACOM data



standard raised the quality of fisheries catch statistics and biological sampling data, allowing 22 of the 34 stock coordinators to test and compare their data. For survey data, the DATRAS database was upgraded.

In addition to the update-benchmark system and to further manage the increasing workload of fishery expert groups caused by the shift in timing, ACOM preselected 33 stocks for which the available information was not expected to change perception of the stock and advice, and for these stocks, expert groups were asked only to confirm in a simplified assessment procedure that new data would not suggest major changes in the status of stocks or fisheries.

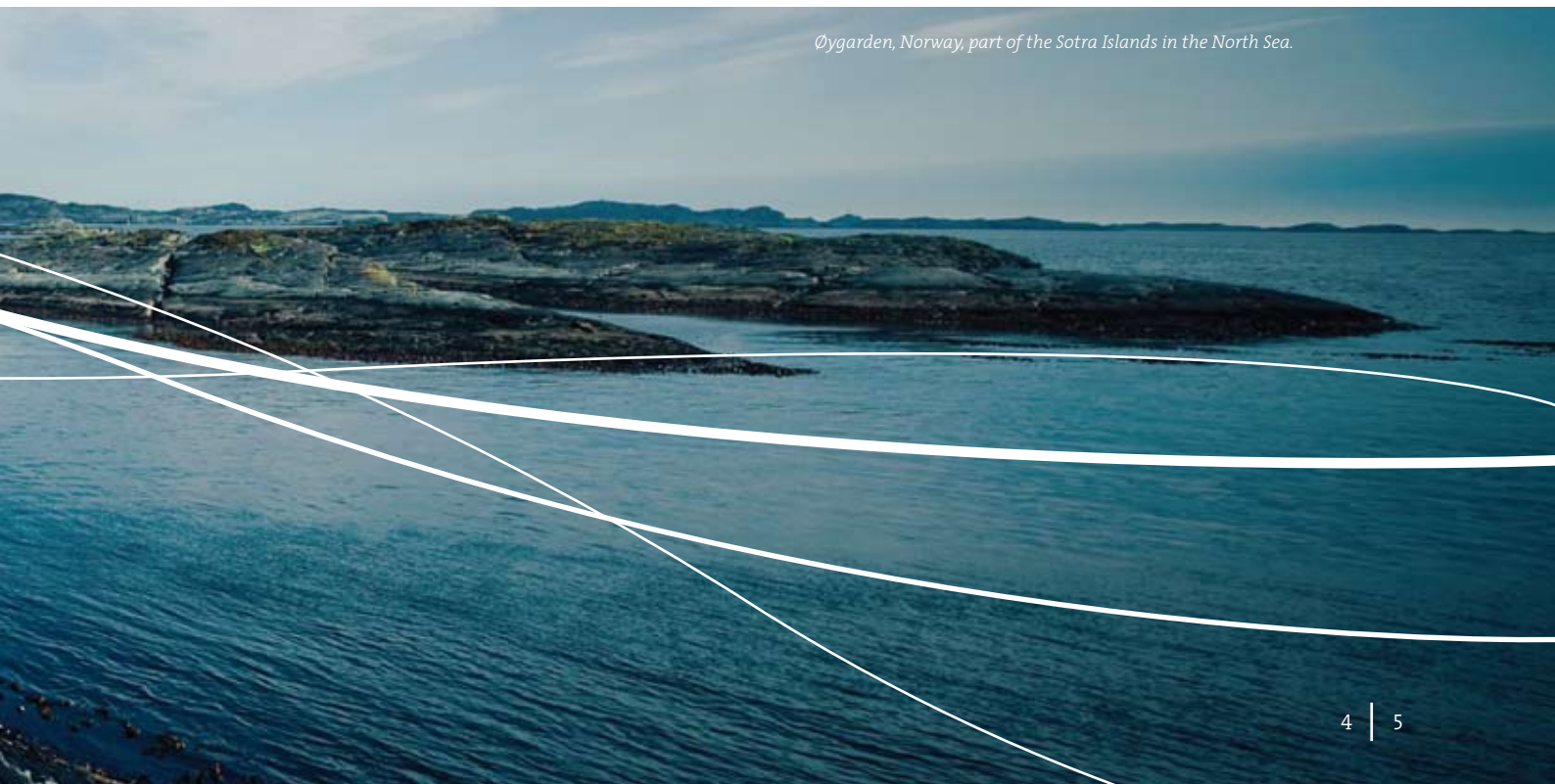
ICES Secretariat and the Chair of ACOM maintained close contact with our partner commissions, and informal meetings were held on various occasions and at ACOM consultations at the ASC.

On the ICES Annual Report 2008 Supplementary CD-ROM

The following reports related to the Advisory Programme can be found under the heading ICES Business and Administration.

- *MIRAC report January 2008*
 - *MICC report May 2008*
 - *ACOM report February 2008*
 - *ACOM report December 2008*
-

Øygarden, Norway, part of the Sotra Islands in the North Sea.



SCIENCE PROGRAMME

The Science Programme's work of supporting ICES network of marine scientists continued as reforms were put into place. Many of ICES 79 expert groups under Science met at ICES headquarters and, in addition to receiving support for meetings, they received help in setting up and maintaining Share Point sites. The addition of a secretary to the Science Programme's staff greatly facilitated the provision of services.

All science committees ceased to exist at the end of 2008; however, the Chairs of these committees will continue to contribute their experience and corporate knowledge of the expert groups to SCICOM as invited members during 2009, to facilitate the development of the new structures.

ICES Annual Science Conference 2008

ICES Annual Science Conference was held in Halifax, Canada, in an excellent venue supported by an eager and skilled team of local staff and volunteers. The conference was opened by Her Excellency the Right Honourable Michaëlle Jean, Governor General of Canada. The Deputy Premier of Nova Scotia Angus MacIsaac delivered an opening address.

In all, 658 participants from 34 countries attended the presentation of more than 400 papers and posters of high quality. Business meetings and theme sessions were well attended, and reporting by local and regional media was broad, covering climate, spatial planning, and fishery and mariculture issues.

During the opening ceremony, ICES Recognition Programme presented two new awards, Outstanding Achievement and ICES Prix d'Excellence. The awards committee consisted of national delegates and members of ConC. Niels Daan and Dale Vance Holliday were the 2008 laureates.

On the ICES Annual Report 2008 Supplementary CD-ROM

The following documents can be found under the heading Annual Science Conference 2008.

- *Conference Handbook*
 - *Index of CM Documents*
 - *Index of Abstracts*
 - *Index of Theme Session Reports*
 - *List of Participants*
 - *ASC Brochure with programme*
-

Enhancing ICES role in international projects

Collaboration with The North Pacific Marine Science Organization (PICES) continued through the co-sponsorship of three PICES theme sessions at ASC 2008. ICES and PICES cooperated on four symposia in 2008 (see *ICES symposia* on page 7).

Cooperation with the Scientific Committee on Oceanic Research (SCOR) was revived on the occasion of the jointly sponsored symposium "The Oceans in a High CO₂ World", held in Monaco. Joint activities on this and other issues were agreed. At the symposium, the leading scientists of the European Project on Ocean Acidification (EPOCA) tentatively agreed to co-sponsor a theme session on ocean acidification at ASC 2010 or 2011.

Dialogues were initiated with transatlantic research projects such as Comparative Analysis of Marine Ecosystem Organization (CAMEO) and Ecosystem Studies of Sub-Arctic Seas (ESSAS).

The Head of the Science Programme attended the seminar “Towards a New Governance of High Seas Biodiversity” in Monaco, organized by the Institute for Sustainable Development and International Relations (IDDRI), where he gave a presentation on ICES advice on high-seas fisheries and relationships with North Atlantic regional fisheries organizations and regional conventions.

ICES participated in the Science Policy Board meeting of Hotspots of Ecosystem Research on Continental Margins of European Seas (HERMES) in Brussels. The meeting focused on governance issues of high-seas exploitation and human activities.

The EU-funded Network of Excellence MARBEF held its “World Conference on Biodiversity” as the final event of the project, finishing in early 2009. ICES sponsored a very successful theme session. The Head of the Science Programme attended the meeting of the Board of Governance. Because the Commission expects a permanent structure to continue coordinated activities on the topic, much of the discussion centred on joining forces with MARS (coastal network of marine research stations) as the umbrella for future activities of the MARBEF science community.

ICES engagement in the EU-funded PROFET Policy project culminated in a “Workshop on the North Sea Fisheries”, held in Copenhagen. It focused on research results from previous Research Framework Programmes (mostly RFP5 and 6), as well as on communication

between scientists, stakeholders, and decision-makers; it was held under the motto “Maintaining dialogue”. The audience of 55 participants from 14 European countries and the US included scientists, fishery managers, science directors, international science and fishery organizations, government representatives, NGOs, and other stakeholders.

The 20 presentations covered a broad range of disciplines including biology, socio-economics, and modelling. Participants perceived the workshop as a step forwards in communication and interaction, evidenced by the desire expressed by fishery representatives to maintain the dialogue with science.

ICES symposia

Eight ICES symposia or ICES co-sponsored symposia were held in 2008.

ICES/PICES/IOC Symposium on “Effects of Climate Change on the World Oceans” was held 19–23 May 2008, in Gijón, Spain. Conveners: Luis Valdés, (Spain, ICES), Bill Peterson, (USA, PICES), and John Church (IOC). The proceedings will be published in Volume 66, Number 7, *ICES Journal of Marine Science*.

ICES Symposium on “Ecosystem Approach with Fisheries Acoustics and Complementary Technologies” was held 16–20 June 2008, at the Institute of Marine Research in Bergen, Norway. Conveners: Egil Ona (Norway), Rudy Kloser (Australia), and David Demer (USA). The proceedings will be published in Volume 66, Number 6, *ICES Journal of Marine Science*.

ICES Symposium on “Herring: Linking Biology, Ecology, and Status of Populations in a Changing Environment” was held 26–28 August 2008, in Galway, Ireland. Conveners: Maurice Clarke (Ireland), Mark Dickey-Collas (the Netherlands), and Aril Slotte (Norway). The proceedings will be published in Volume 66, Number 8, *ICES Journal of Marine Science*.

Symposium on “Eastern Boundary Upwelling Ecosystems: Integrative and Comparative Approaches” was held 2–6 June 2008, in Las Palmas de Gran Canaria, Spain. Conveners: Pierre Freon (IRD), Manuel Barange (GLOBEC), and Javier Aristegui (ULPGC).

Symposium on “Coping with Global Change in Marine Socio-ecological Systems” was held 8–10 July 2008, in Rome, Italy. Conveners: Ian Perry (Canada), Rosemary Ommen (Canada), and Philippe Cury (France). ICES supported two keynote speakers.

ICES/NAFO Symposium on “The Role of Marine Mammals in the Ecosystem in the 21st Century” was held 29 September–1 October 2008, in Dartmouth, Nova Scotia, Canada. Conveners: Garry Stenson (NAFO) and Tore Haug (ICES).

Symposium on “The Ocean in a High-CO₂ World” was held 6–8 October 2008, in Monaco, with IOC and SCOR as main sponsors.

The World Conference on Marine Biodiversity was held 11–15 November 2008, in Valencia, Spain, with Carlo Heip (the Netherlands) and Carlos Duarte (Spain) as conference chairs. Jake Rice (Canada) and Heye Rumohr (Germany) acted as ICES conveners of the ICES-sponsored theme session. A suite of papers from the theme session will be published in *ICES Journal of Marine Science*.

On the ICES Annual Report 2008 Supplementary CD-ROM

The following reports related to the Consultative Committee (ConC) can be found under the heading ICES Business and Administration.

- *ConC Report, January 2008*
 - *ConC Midterm Report, May 2008*
 - *ConC Final Report, September 2008*
 - *Report of the Council Working Group on ICES Science Strategy (CWGISS)*
-

Aberdeen Plus

Aberdeen Plus was the result of an initiative by the Aberdeen Interest Group in early 2008, establishing a task force with a mandate to further develop the partnership that was begun at the 2007 EUROCEAN conference and to prepare a proposal for European funding to support the process. ICES assumed leadership of the initiative.

The main goal of the Aberdeen Plus initiative is to support the development of the integrated European Maritime Policy. This requires a holistic approach encompassing both the coastal and maritime fields. In order to expand the thematic scope of the partnership, the Aberdeen Plus Group took on board the Venice Platform Group, which represents coastal-zone managers and authorities on maritime regions. The task force subsequently created a consortium of ten major EU networks, which includes the following organizations.

- Coastal and Marine Union
- Community of European Shipyards' Associations (representing the Waterborne Technology Platform)
- European Council for Maritime Applied Research and Development Association

- European Aquaculture Technology and Innovation Platform
- European Fisheries and Aquaculture Organization
- Hellenic Centre for Marine Research (representing the European Global Ocean Observing System)
- International Council for the Exploration of the Sea
- Marine Board of the European Science Foundation
- Mediterranean Science Commission
- Royal Netherlands Academy of Arts and Sciences (representing the European Network of Marine Research Institutes and Stations)

An application, entitled “Towards an Integrated Marine and Maritime Science Community – MARCOM+”, was finalized and submitted to the EU 7th Framework Programme in January 2009. The project envisions the establishment of a sustainable, long-lasting forum of partners (European Marine and Maritime Science Forum), based on shared interests and leadership, which will be tested on regional seas as well as on a pan-European basis. The process will encourage interactions between partners (the research community, industry, regional authorities, civil society, and other stakeholders), starting on a regional scale and progressing to broader issues shared with neighbouring EU countries. This is in line with the European Strategy for Marine and Maritime Research and will underpin implementation of strategies for the future integrated EU Maritime Policy.

Cooperation with ESF Marine Board, CIESM, and other international organizations (e.g. EUCC, CPMR) was intensified during Aberdeen Plus meetings.

EMPAS

Between 2006 and 2008, administration of the EMPAS project (Environmentally Sound Fishery Management in Protected Areas) was in the hands of the Science Programme, and the project was brought to a successful conclusion in 2008. The EMPAS project was established in response to a request from the German government to gather information on the distribution and impact of fisheries in Natura 2000 sites located in German offshore waters, and to develop concepts for managing fisheries in these areas.

ICES Workshop on Fisheries Management in Marine Protected Areas (WKFMMPA) held three sessions between 2006 and 2008 and was a major component of the project. The workshops represented different stages of the EMPAS project:

April 2006 – Planning and evaluation of data availability

April 2007 – Evaluation of fisheries data and conservation targets

June 2008 – Conflict analysis and development of management options

EMPAS represents a major investment in research effort and resources. From it, a number of lessons have been learned that may be broadly useful, and some that make it possible to develop the basis for science advice on similar problems more efficiently and possibly more cost-effectively in future.

The workshops, in which stakeholders participated, demonstrated the feasibility and value of conducting an inclusive process, a lesson that applies to the many similar tasks carried out by ICES Science and Advice,

which are framed in the context of an ecosystem approach and integrated management. Finally, it was possible to provide sound scientific information and unbiased interpretation, which were all the stronger for the breadth of expertise that went into their development.

This innovative and groundbreaking project was so successful that ICES was able to provide advice on options for fishery management, which will help achieve the objectives of the German Natura 2000 sites. The process also provided many useful lessons for the formulation of management proposals for Natura 2000 sites (or similar MPAs) elsewhere.

The BONUS projects

For more than a decade, ICES has been involved in at least three special programmes related to Baltic marine science, including the Baltic Sea Regional Project (BSRP), the Scientific Advice for Fisheries Management at Multiple Scales (SAFMAMS) project, and BONUS ERA-NET (Baltic Sea Science – Network of Funding Agencies). The aim of the last project, which came to an end in 2008, was to establish a network of funding agencies and create conditions for a Joint Baltic Sea Research Programme.

For the project just completed, ICES was contracted to develop “ideas for potential future transnational research schemes”. That responsibility was later expanded to include the development of a Baltic Sea science plan, which could be used by the nine Baltic countries as a frame for their marine science. The plan, which was accepted by all nine countries, converted urgent research needs arising from management bodies into scientific questions. In September 2007,

BONUS ERA-NET announced an open call to Baltic scientists for project proposals that would investigate the urgent issues identified earlier. Sixteen projects with participants from more than 100 universities and research institutes were selected to receive grants, from national and EC funds, totalling €22 million for the period 2009–2011.

ICES has offered to cooperate actively with the BONUS+ projects to make the results available and more visible to a wide scientific community, and increase their usefulness in the preparation of advice on marine management and policy.

*Sailing the North Sea between Germany and the Netherlands,
through waves corresponding to six on the Beaufort scale.*



DATA CENTRE

Important online data systems were released during 2008, including trawl survey data (DATRAS v. 2.0) and environmental data related to OSPAR and HELCOM (EcoSystemData v. 1.0).

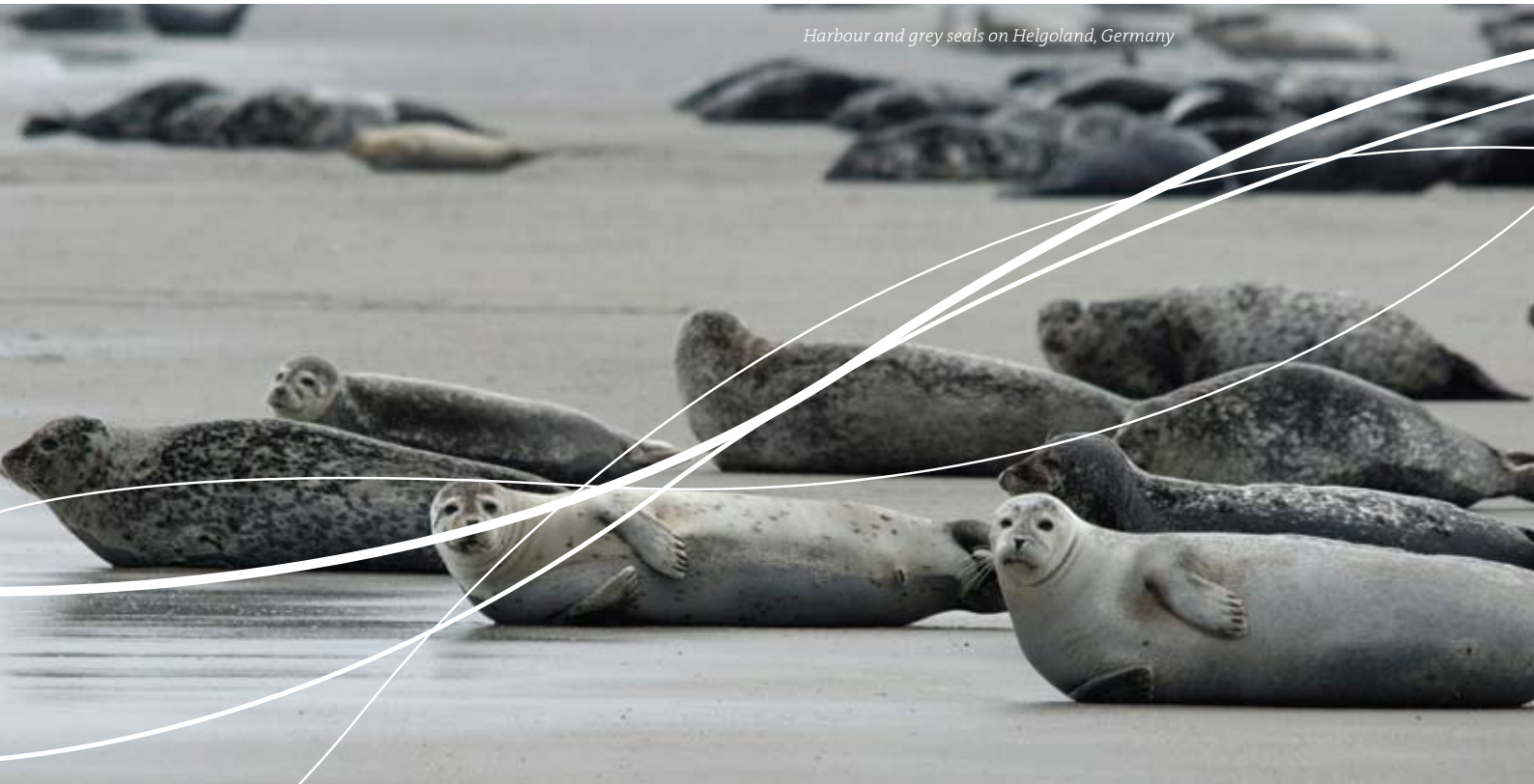
The Data Centre's work became more visible to the ICES community through a number of initiatives, including interaction with several ICES working groups, presentations and discussions at key conferences (IMDIS, ASC, and GIS symposia, to name a few), site visits and knowledge sharing with national marine institutions (IFREMER in France and BSH in Germany), and the launch of the *Data Centre e-News*.

Many improvements to ICES internal data systems and services were made. For example, all new web applications were implemented to allow the logging of data downloads, and a data licence confirmation agreement was introduced. All Data Centre SQL databases were migrated to SQL Server 2005, which will ensure a reliable and extendable data system for the next three to four years.

DATRAS

The data restriction module was implemented, but a positive policy change means that all data are available without restriction. BETA testing of the automatic upload is complete, and the full version has now been released. Additional download products were developed, as was an online version of GIS mapping of age-based data.

Harbour and grey seals on Helgoland, Germany



EcoSystemData

The EcoSystemData (ESD) web application was launched, providing integration over space, time, and subject areas to a wide range of end users. A query tool, implemented as an integrated module in ESD, allows advanced enquiries on the data holdings. A GIS mapping, charting, and visualization facility allows users to view data layers and reference layers on maps, charts, and tables. Further, early web services allow end users to extract or feed data into their own systems and databases.

The OSPAR test data extractions were developed and used directly from ESD, simplifying and speeding up the extraction process. ESD provided biota, sediment, and QA data for the OSPAR 2008 assessment. Legacy biota and sediment data were converted and loaded into ESD, and zooplankton, zoobenthos, and phytoplankton legacy data were converted.

Greater integration of data management that is performed on behalf of the European Environment Agency (EEA) with ESD was achieved, and datasets were produced for EEA using ESD. A consultation paper delivered to the EEA on WISE-Marine resulted in commissions for further tasks related to WISE-Marine implementation in 2009.

Oceanographic web services, download facilities, and online products were upgraded in ESD, including the ODV (Ocean Data View) download format for all oceanographic data accessible on the ICES website and a web service to access and download low-resolution CTD and bottle data.

Historical fisheries data

A database with fisheries data from the period 1950–1972 was established, and a further evaluation of data from the period 1973–2006 was partially accomplished, to assist in the evaluation of the 1950–1972 data. Further investigations were made into extending the data prior to 1950.

InterCatch

Quality assurance of stock assessment data was the focus of 22 of the 34 stock coordinators who managed to test and compare their output. InterCatch is now recognized as an ACOM generic ToR to stock assessment working groups.

Stay informed about Data Centre developments and initiatives by subscribing to the *Data Centre e-News* (www.ices.dk/datacentre/updates/DC_update.htm). We are receiving excellent feedback and click-throughs from the more than 250 partners and stakeholders who already subscribe.

On the ICES Annual Report 2008 Supplementary CD-ROM

The Report of the Working Group on Data and Information Management (WGDIM) can be found under the heading ICES Business and Administration.

PUBLICATION GROUP

ICES Publication Group focused on developing skills and tools to speed the production of ICES publications, and improve their accuracy and correctness, especially expert group reports. Improvements and new functions were added to the ICES template, which is used to standardize and automate the formatting of the reports of more than 120 working groups. Workshops were conducted in the use of MS Word, especially as it applies to the ICES template.

In addition to increasing the template functionality that automates certain stages of the proofreading process, a program was created to automate the checking of documents for consistency with ICES style guides.

ICES Journal of Marine Science (IJMS) and its editors agreed with Oxford University Press to implement Manuscript Central (MC), a web-based facility for the administration of all IJMS manuscripts. Testing of the MC website began in November, editor training took place in December, and the facility went online immediately after the New Year. The number of regular-issue manuscripts submitted to the *Journal* in 2008 reached an all-time high of 263, reinforcing the advantage of adopting MC as the primary means of manuscript processing.

In 2008, nine issues of IJMS were published in Volume 65. Six contained articles on mixed topics, and three carried the proceedings of ICES symposia: “4th International Zooplankton Production Symposium: Human and Climate Forcing of Zooplankton Populations”, “5th International Conference on Marine Bioinvasions: Integrating Knowledge for Managing Impacts”, and “Marine Environmental Indicators: Utility in Meeting Regulatory Needs”.

For a preview of upcoming IJMS symposium issues, see *ICES symposia* on page 7.

Four issues in the *ICES Cooperative Research Report* (CRR) series were published, including: “Changes in surface CO₂ and ocean pH in ICES shelf sea ecosystems”. The other three CRRS appeared as special issues: “ICES report on ocean climate 2007”, “ICES zooplankton status report 2006–2007”, and “The effect of climate change on the distribution and abundance of marine species in the OSPAR Maritime Area”.

Issue 45 of *ICES Insight* appeared at the beginning of September and was further distributed at the Annual Science Conference. The issue contained 44 pages, up from 32 pages the previous year, with nine articles, plus three reports from ICES-affiliated institutes. An extensive search for appropriate articles was conducted, resulting in a widely ranging editorial agenda that more closely mirrored the diversity of ICES work. An exceptional effort was made to reshape the scientifically oriented articles into something appealing and comprehensible to a readership outside the ICES community.

ICES is reaching out with a new online information product called *ICES Inside Out*. Response has been excellent so far, with more than 350 active subscribers. Visit the ICES website to see the current issue and back issues, and to subscribe: <http://www.ices.dk/aboutus/icesinsideout.asp>.

J. A. Lindley stepped down as editor of the *ICES Identification Leaflets for Plankton* series. ICES colleagues and plankton ecologists and taxonomists around the world are grateful for his many years of effort. In his final report, he “hoped that a more proactive Editor will be able to revitalize the ID leaflet series”. Nominated

by the Working Group on Zooplankton Ecology (WGZE), Steve Hay of the Fisheries Research Services Marine Laboratory, Aberdeen, began his editorship of the *Leaflets* on 1 January 2008.

All ICES publications can be downloaded without charge from the ICES website. Start here:
<http://www.ices.dk/products/introduction.asp>.

On the ICES Annual Report 2008 Supplementary CD-ROM

The Report of the Publications Committee can be found under the heading ICES Business and Administration.

The lighthouse at Peggys Cove, Nova Scotia, marks the eastern entrance to St Margarets Bay. The octagonal structure was built in 1914.



FINANCE COMMITTEE

The Finance Committee and the Bureau took the decision to engage Price Waterhouse Coopers as ICES auditors. Work on the audit began in the last quarter of the year. The company was also tasked with reviewing ICES project budgeting procedures and its compliance with the MoU. The auditor worked in house in November. The report was available by early January 2009, and was submitted to the Bureau.

A summary of ICES Budgets 2008–2009 appears on pages 18–19.

On the ICES Annual Report 2008 Supplementary CD-ROM

The following reports of the Finance Committee can be found under the heading ICES Business and Administration.

- June Report
 - October Report
 - Final Accounts
-

ICES COUNCIL

ICES Council met 21 and 22 October at ICES headquarters. The reform of the Science Programme was a major item on the agenda, and Council adopted a resolution (ICES CM 2008 Del-05) for the reform of ICES Science Programme, renaming the ICES Consultative Committee as “Science Committee” (SCICOM).

Cooperation in the framework of the European Maritime Strategy was supported by Council, who confirmed that ICES should continue to take a proactive role in fostering such coordination processes and gave the General Secretary a mandate to act on behalf of the Council.

A number of important financial decisions related to the ICES accounts and budgets were adopted in voting procedures. Council accepted the reports of the Finance Committee, and agreed that the Strategic Investment Fund should be used for the new strategic priorities, with the Bureau remaining as its custodian.

On the ICES Annual Report 2008 Supplementary CD-ROM

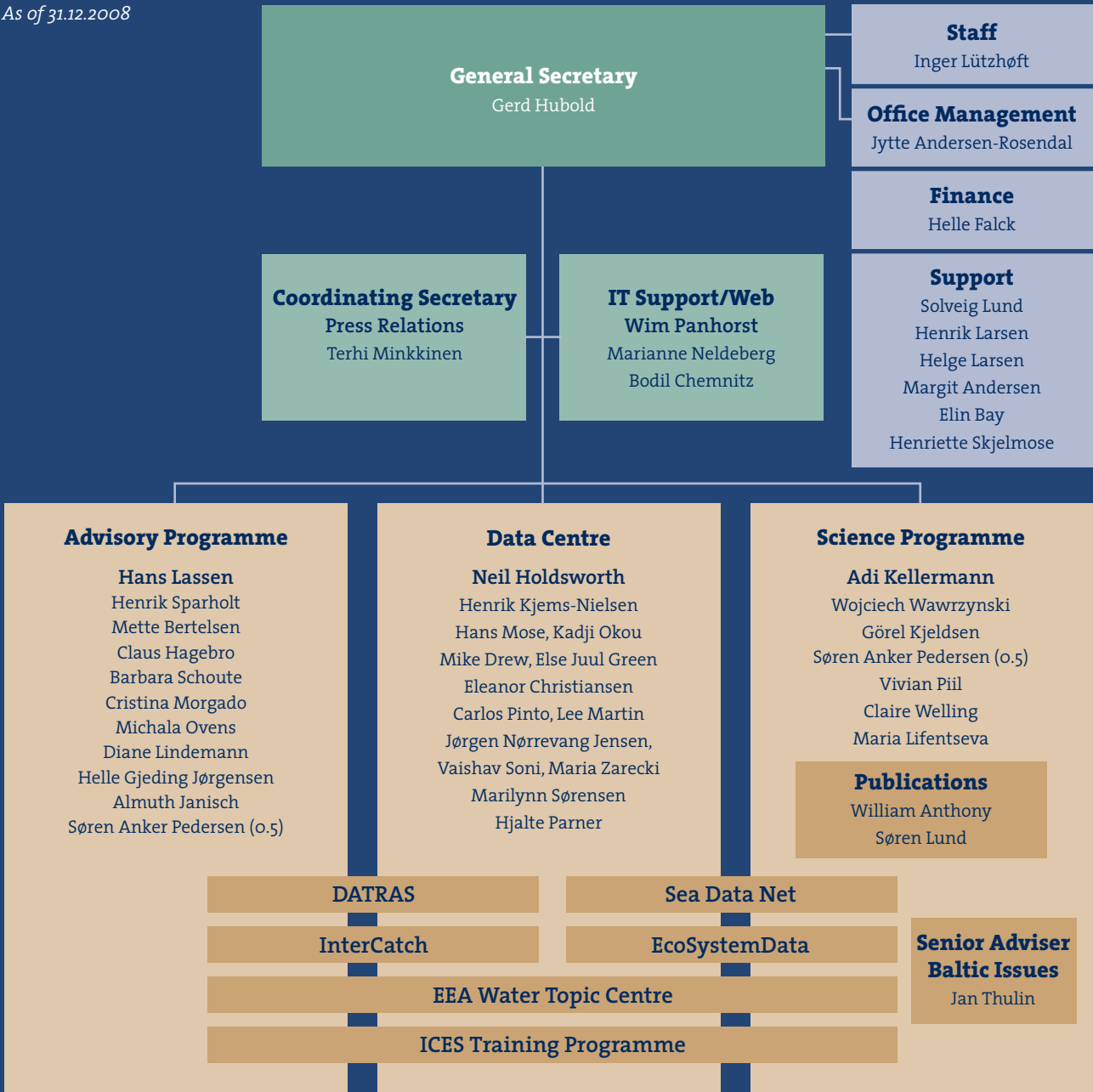
A selection of Council reports and resolutions can be found under the heading ICES Business and Administration.

Reports of committee meetings

On the ICES Annual Report 2008 Supplementary CD-ROM

Committee meeting reports can be found in the Index of Committee Meeting Reports under the heading ICES Business and Administration.

As of 31.12.2008



ICES BUDGETS 2008–2009

(All amounts in Danish Kroner)

	Budget 2008	Budget 2009
INCOME		
Price for one share	394,000	402,000
1. National Contributions		
Belgium	788,000	804,000
Canada	1,182,000	1,206,000
Denmark	1,182,000	1,206,000
Estonia	394,000	402,000
Finland	591,000	603,000
France	1,576,000	1,608,000
Germany	1,576,000	1,608,000
Iceland	1,182,000	1,206,000
Ireland	788,000	804,000
Latvia	394,000	402,000
Lithuania	394,000	402,000
Netherlands	1,182,000	1,206,000
Norway	1,576,000	1,608,000
Poland	1,182,000	1,206,000
Portugal	788,000	804,000
Russia	1,182,000	1,206,000
Spain	1,182,000	1,206,000
Sweden	1,182,000	1,206,000
United Kingdom	1,576,000	1,608,000
USA	1,182,000	1,206,000
Total National Contributions	21,579,000	21,507,000
Contributions from Affiliates	159,600	150,000
Contributions from Faroe Islands and Greenland	394,000	402,000
Total Contributions	21,632,600	22,059,000
2. Income from Commissions		
Contribution from NEAFC	2,015,894	2,056,817
Contribution from Russia for Baltic Sea Advice	70,301	71,728
Contribution from OSPAR (Advice)	614,040	626,505
Contribution from HELCOM (Advice)	146,142	149,108
Contribution from NASCO	471,157	480,721
Contribution from EC	5,757,685	5,874,566

	Budget 2008	Budget 2009
3. Other Income		
Once off advice	500,000	500,000
Contribution from OSPAR (Datahandling)	460,530	469,879
Contribution from HELCOM (Datahandling)	456,846	466,120
Income from <i>ICES Journal of Marine Science</i>	250,000	250,000
Sale of Publications	50,000	25,000
ASC Income (Fees)	300,000	325,000
Total Income	32,725,195	33,354,444
EXPENDITURE		
Secretariat and Advisory Staff Cost	22,982,996	24,739,441
Office Expenses excl. Projects	2,169,500	2,121,150
IT Expenses excl. Projects	2,288,591	2,099,998
Expenses for ASC & Statutory Meetings	1,187,206	1,208,950
Travel and meetings	5,107,082	5,505,607
Publications	983,040	1,002,701
Expenditure total	34,718,415	36,677,847
Operating result (Total income less total Expenditure)	-1,993,221	-3,323,403
1. Transfer from SIF for Advisory Reform	207,174	1,910,719
2. Transfer from SIF for Science Reform	0	984,723
3. Transfer from Projects	0	427,961
Balance for the year	0	0
INTEREST RECEIVABLES		
I. Interest	400,000	400,000

CONTENTS OF THE ICES ANNUAL REPORT 2008 SUPPLEMENTARY CD-ROM

Documents relating to ICES work are collected on the *ICES Annual Report 2008 Supplementary CD-ROM*. The Index has two sections, **ICES Business and Administration** and **Annual Science Conference 2008**.

ICES Business and Administration

Secretariat Project Review 2008 – A report on the progress of projects that appeared in the 2008 ICES Work Plan.

Advisory Programme – Including MCAP Report February 2008, MCAP-MIRAC Report 2008, and MCAP-MICC Report 2008.

Data Centre – Report of the Working Group on Data and Information Management (WGDIM).

Finance Committee – Including the June Report, October Report, and the Final Accounts.

Publication Group – Report of the Publications Committee (PUBCOM).

Consultative Committee – Including the January Report, the May Report, the Final Report, and the Report of the Council Working Group on ICES Science Strategy (CWGISS).

Council – A collection of meeting reports and Council Resolutions including Category 2 resolutions from

ACOM and the eight Science Committees; Category 1 resolutions for Publications; Category 3 Resolutions for Symposia.

Index of Science Committee Meeting Reports – An index with links to the following committee meeting reports: Baltic Committee (BCC), Diadromous Fish Committee (DFC), Fisheries Technology Committee (FTC), Living Resources Committee (LRC), Mariculture Committee (MCC), Marine Habitat Committee (MHC), Oceanography Committee (OCC), Publications Committee (PUBCOM), Resource Management Committee (RMC), Joint Session of the Living Resources and Resource Management Committees on Surveys.

Annual Science Conference 2008

Conference Handbook – In addition to abstracts of papers presented at the ASC, the Handbook includes general information about the Conference, abstracts of plenary lectures, a list of expert group reports for 2008, agendas and orders of the day, and a list of exhibitors and sponsors.

Index of Papers Presented at the ASC – An index of papers presented at the 2008 Annual Science Conference, arranged numerically by Theme Session. Click the Theme Session at the top of the Index to jump to the papers from that session. Links to the papers are in green.

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Index of Theme Session Reports – An index of Theme Session final reports.

List of participants – A list of all ASC participants.
ASC Brochure with programme – The original ASC brochure with the complete programme of theme sessions and social events.

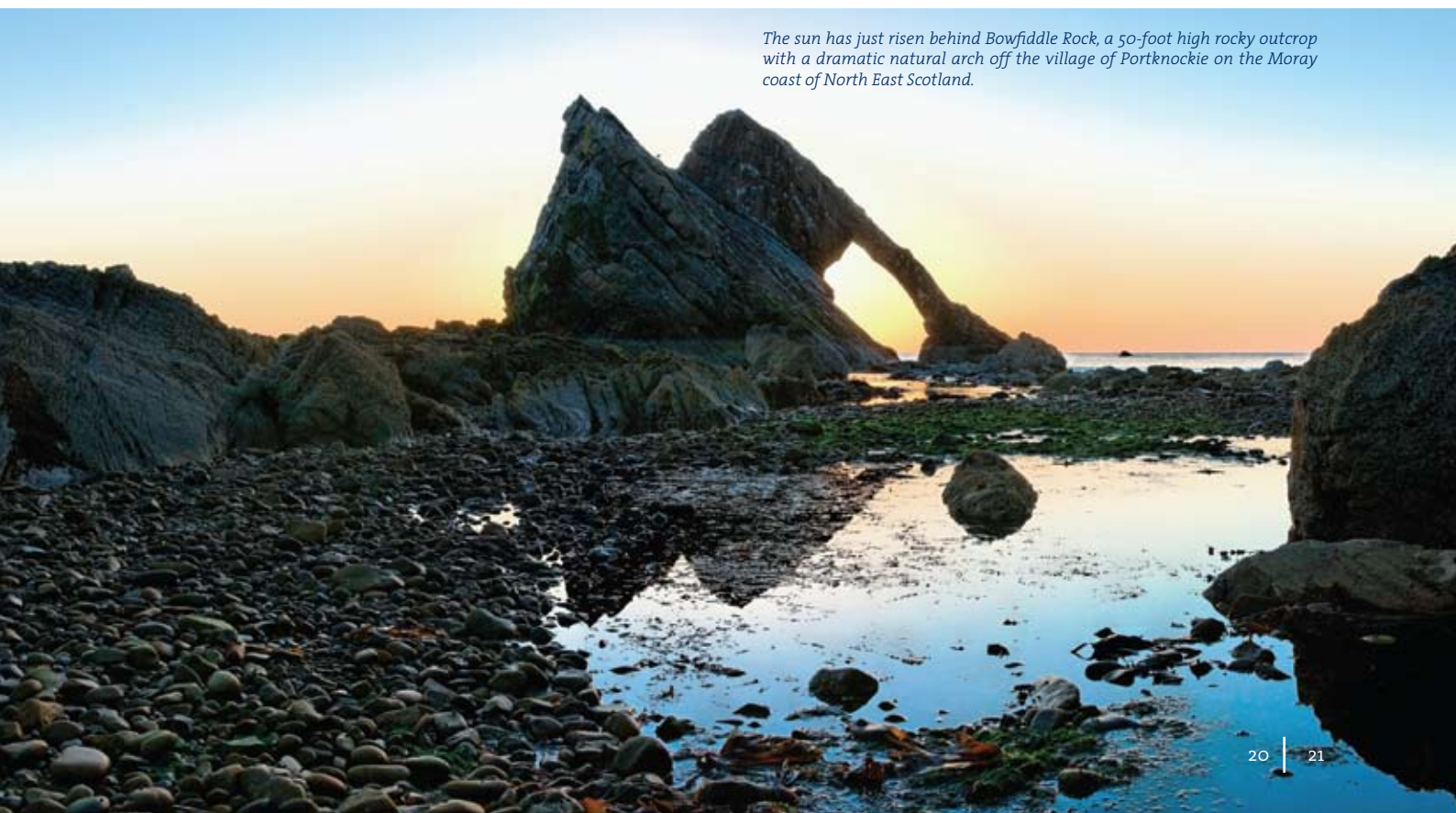
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The sun has just risen behind Bowfiddle Rock, a 50-foot high rocky outcrop with a dramatic natural arch off the village of Portknockie on the Moray coast of North East Scotland.



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A mature herring gull.

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ICES Identification Leaflets for Plankton	Steve Hay <i>S.Hay@marlab.ac.uk</i>
ICES Identification Leaflets for Diseases and Parasites of Fish and Shellfish	Stephen Feist <i>s.w.feist@cefas.co.uk</i>
ICES Journal of Marine Science	Andrew I. L. Payne, Editor-in-Chief <i>andy.payne@cefas.co.uk</i> Editors: Emory D. Anderson <i>EmoryAnderson@comcast.net</i> Panayiota Apostolaki <i>panayiota.apostolaki@cefas.co.uk</i> Audrey Geffen <i>audrey.geffen@bio.uib.no</i> Sarah B. M. Kraak <i>sarah.kraak@wur.nl</i> Pierre Pépin <i>pepinp@dfo-mpo.gc.ca</i> John W. Ramster <i>jramster@lineone.net</i> Verena Trenkel <i>verena.trenkel@ifremer.fr</i>
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Joint NAFO/ICES Pandalus Assessment Working Group (NIPAG) <i>Groupe de travail NAFO/CIEM d'évaluation de Pandalus</i>	203 Michaela Aschan (Norway) Norwegian College of Fishery Science, University of Tromsø michaela.aschan@nfh.uit.no
Joint STECF/ICES Workshop on Implementation Studies on Concurrent Length Sampling (WKISCON) <i>Atelier STECF/CIEM sur la mise en oeuvre comparative de méthodes d'échantillonnage de longueur</i>	166 Sieto Verver (the Netherlands) IMARES, Wageningen UR, IJmuiden sieto.verver@wur.nl
North-Western Working Group (NWWG) <i>Groupe de travail nord-ouest</i>	135 Gudmundur Thordarson (Iceland) Marine Research Institute, Reykjavík gudthor@hafro.is
Planning Group on Commercial Catch, Discards, and Biological Sampling (PGCCDBS) <i>Groupe de planification sur les captures commerciales, les rejets et l'échantillonnage biologique</i>	211 Ernesto Jardim (Portugal) IPIMAR, Lisbon ernesto@ipimar.pt
Study Group for Bycatch of Protected Species (SGBYC) <i>Groupe d'étude sur les prises accessoires d'espèces protégées</i>	283 Simon Northridge (United Kingdom) The Gatty Marine Laboratory, University of St Andrews spn1@st-andrews.ac.uk

Study Group on Management Strategies (SGMAS) <i>Groupe d'étude sur les stratégies de gestion</i>	183 Dankert Skagen (Norway) Institute of Marine Research, Bergen dankert.skagen@imr.no 280 John Simmonds (United Kingdom) Fisheries Research Services, Aberdeen j.simmonds@marlab.ac.uk
Study Group on Simple Mixed Fisheries Management (SGMIXMAN) <i>Groupe d'étude sur les modèles simples pour la gestion des pêcheries mixtes</i>	270 Stuart Reeves (UK) Cefas, Lowestoft stuart.reeves@cefas.co.uk
Study Group on Working Hypotheses Regarding Effects of Climate Change (SGWRECC) <i>Groupe d'étude sur les hypothèses de travail concernant les effets du changement climatique</i>	166 Adriaan Rijnsdorp IMARES, Wageningen UR, IJmuiden Adriaan.Rijnsdorp@wur.nl
Working Group for Regional Ecosystem Description (WGRED) <i>Groupe de travail pour la description des écosystèmes régionaux</i>	23 Jake Rice (Canada) Fisheries and Oceans, Ottawa ricej@dfo-mpo.gc.ca
Working Group on Anchovy (WGANC) <i>Groupe de travail sur l'anchois</i>	183 Dankert Skagen (Norway) Institute of Marine Research, Bergen dankert.skagen@imr.no
Working Group on Deepwater Ecology (WGDEC) <i>Groupe de travail sur l'écologie des eaux profondes</i>	322 Robert J. Brock (USA) National Marine Fisheries Services, Silver Spring Robert.Brock@noaa.gov
Working Group on Ecosystem Effects of Fishing Activities (WGECO) <i>Groupe de travail sur les effets écologiques des activités de pêche</i>	20 Ellen Kenchington (Canada) Fisheries and Oceans, Dartmouth kenchington@mar.dfo-mpo.gc.ca
Working Group on Elasmobranch Fishes (WGEF) <i>Groupe de travail sur les poissons élasmobranches</i>	270 Jim Ellis (UK) Cefas, Lowestoft jim.ellis@cefas.co.uk
Working Group on Introductions and Transfers of Marine Organisms (WGITMO) <i>Groupe de travail sur les introductions et les transferts d'organismes marins</i>	320 Judith Pederson (USA) MIT Sea Grant College Program, Cambridge jpederson@mit.edu

Working Group on Marine Mammal Ecology (WGMME) <i>Groupe de travail sur l'écologie des mammifères marins</i>	168 Meike Scheidat (the Netherlands) IMARES, Wageningen UR, Alterra, Texel meike.scheidat@wur.nl
Working Group on North Atlantic Salmon (WGNAS) <i>Groupe de travail sur le saumon de l'Atlantique Nord</i>	330 Tim Sheehan (USA) NOAA/NMFS, Woods Hole tim.sheehan@noaa.gov
Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK) <i>Groupe de travail sur l'évaluation des stocks démersaux dans la Mer du Nord et le Skagerrak</i>	270 Chris Darby (UK) Cefas, Lowestoft chris.darby@cefas.co.uk
Working Group on the Assessment of New Species (WGNEW) <i>Groupe de travail pour l'estimation des stocks de nouvelles espèces</i>	166 Henk Heessen (the Netherlands) IMARES, Wageningen UR, IJmuiden henk.heessen@wur.nl 94 Jean-Claude Mahé (France) IFREMER, Lorient jcmahe@ifremer.fr
Working Group on the Assessment of Northern Shelf Demersal Stocks (WGNSDS) <i>Groupe de travail sur l'évaluation des stocks démersaux du plateau continental du nord</i>	270 Robert Scott (UK) Cefas, Lowestoft robert.scott@cefas.co.uk
Working Group on the Assessment of Southern Shelf Demersal Stocks (WGSSDS) <i>Groupe de travail sur l'évaluation des stocks démersaux du plateau continental du sud</i>	141 Colm Lordan (Ireland) Marine Institute, Galway colm.lordan@marine.ie
Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk, and Megrim (WGHMM) <i>Groupe de travail sur l'évaluation des stocks de merlu, de baudroies et de cardines du plateau continental du sud</i>	211 Manuela Azevedo (Portugal) IPIMAR, Lisbon mazevedo@ipimar.pt
Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources (WGDEEP) <i>Groupe de travail sur la biologie et l'évaluation des stocks de ressources halieutiques des grands fonds</i>	290 Tom Blasdale (United Kingdom) Joint Nature Conservation Committee, Aberdeen tom.blasdale@jncc.gov.uk
Working Group on Widely Distributed Stocks (WGWIDE) <i>Groupe de travail sur les stocks à grande extension géographique</i>	270 Beatriz Roel (UK) Cefas, Lowestoft beatriz.roel@cefas.co.uk

Workshop on Age Determination of Redfish (WKADR) <i>Atelier sur la détermination de l'âge des sébastes</i>	229 Fran Saborido-Rey (Spain) Instituto de Investigaciones Marinas, Vigo fran@iim.csic.es
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Workshop on Age Reading of Baltic Herring (WKARBH) <i>Atelier sur la détermination de l'âge du hareng de la Baltique</i>	151 Georgs Kornilovs (Latvia) Latvian Fish Resources Agency, Riga georgs.kornilovs@lzra.gov.lv
Workshop on Age Reading of Baltic Sprat (WKARBS) <i>Atelier sur la détermination de l'âge du sprat</i>	151 Georgs Kornilovs (Latvia) Latvian Fish Resources Agency, Riga georgs.kornilovs@lzra.gov.lv
Workshop on Age Reading of Flounder (WKARFLO) <i>Atelier sur la lecture d'âge du flet</i>	250 Johan Modin (Sweden) Swedish Board of Fisheries, Öregrund johan.modin@fiskeriverket.se
	250 Ann-Britt Florin (Sweden) Swedish Board of Fisheries, Öregrund ann-britt.florin@fiskeriverket.se
Workshop on Age Reading of North Sea Cod (WKARNSC) <i>Atelier sur la détermination de l'âge de la morue en mer du Nord</i>	183 Hans Høie (Norway) Institute of Marine Research, Bergen hans.hoie@imr.no
	52 Lotte Worsøe Clausen (Denmark) DTU Aqua, Section for Fisheries Advice, Charlottenlund law@aqua.dtu.dk
Workshop on Age Reading of Turbot (WKART) <i>Atelier sur la détermination de l'âge du turbot</i>	12 Bart Maertens (Belgium) Landbouw en Visserij, Oostende bart.maertens@ilvo.vlaanderen.be
Workshop on Baltic Salmon Management Plan Request (WKBALSAL) <i>Atelier sur la demande de plan de gestion pour le saumon de la mer Baltique</i>	77 Atso Romakkaniemi (Finland) Finnish Game and Fisheries Research Institute, Oulu atso.romakkaniemi@rktl.fi

Workshop on dealing with Natura 2000 and Related Requests (WKN2K) <i>Atelier sur la prise en compte de Natura 2000 et des requêtes connexes</i>	270 Stuart I. Rogers (UK) Cefas, Lowestoft stuart.rogers@cefas.co.uk
Workshop on Fishers Sampling of Catches (WKSC) <i>Atelier sur l'échantillonnage par les pêcheurs des captures</i>	183 Kjell Nedreaas (Norway) Institute of Marine Research, Bergen kjell.nedreaas@imr.no 183 Michael Pennington (Norway) Institute of Marine Research, Bergen michael.pennington@imr.no
Workshop on Herring Management Plans (WKHMP) <i>Atelier sur les plans de gestion du hareng</i>	166 Mark Dickey-Collas (the Netherlands) IMARES, Wageningen UR, IJmuiden mark.dickeycollas@wur.nl
Workshop on Maturity Ogive Estimation for Stock Assessment (WKMOG) <i>Atelier sur l'estimation de l'ogive de maturité pour l'évaluation des stocks</i>	270 David Maxwell (UK) Cefas, Lowestoft david.maxwell@cefas.co.uk
Workshop on Methods to Evaluate and Estimate the Accuracy of Fisheries Data used for Assessment (WKACCU) <i>Atelier sur les méthodes d'évaluation et d'estimation de la précision des données halieutiques utilisées pour l'évaluation des stocks</i>	183 Michael Pennington (Norway) Institute of Marine Research, Bergen michael.pennington@imr.no 183 Jon Helge Vølstad (Norway) Institute of Marine Research, Bergen jon.helge.voelstad@imr.no
Workshop on Reference Points in the Baltic Sea (WKREFBAS) <i>Atelier sur les point de référence en mer Baltique</i>	270 Carl O'Brien (UK) Cefas, Lowestoft carl.obrien@cefas.co.uk
Workshop on Small Pelagics (<i>Sardina pilchardus</i>, <i>Engraulis encrasicolus</i>) Maturity Stages (WKSPMAT) <i>Atelier sur les stades de maturité des petits pélagiques</i> (<i>Sardina pilchardus</i> , <i>Engraulis encrasicolus</i>)	149 Gualtiero Basilone (Italy) National Research Council, Institute for Coastal Marine Environment walter.basilone@irma.pa.cnr.it



Baltic Committee / Comité sur la Baltique	
ICES/IOC Working Group on GEOHAB Implementation in the Baltic (WGGIB) <i>Groupe de travail CIEM/COI sur la mise en place de GEOHAB en mer Baltique</i>	72 Markku Viitasalo (Finland) Finnish Environment Institute, Helsinki markku.viitasalo@ymparisto.fi
ICES/HELCOM Working Group on Integrated Assessments of the Baltic Sea (WGIAB) <i>Groupe de travail CIEM/HELCOM sur les évaluations intégrées de la mer Baltique</i>	127 Christian Möllmann (Germany) Institute of Hydrobiology and Fishery Science, University of Hamburg christian.moellmann@uni-hamburg.de 154 Bärbel Müller-Karulis (Latvia) Institute of Aquatic Ecology, University of Latvia, Riga baerbel@latnet.lv 72 Juha Flinkman (Finland) Finnish Environment Institute, Helsinki Juha.Flinkman@ymparisto.fi
Study Group on Baltic Sea Productivity (SGPROD) <i>Groupe d'étude sur la productivité de la mer Baltique</i>	154 Bärbel Müller-Karulis (Latvia) Institute of Aquatic Ecology, University of Latvia, Riga baerbel@latnet.lv 63 Michael Olesen (Denmark) University of Copenhagen, Marine Biological Laboratory, Helsingør molesen@bi.ku.dk
Study Group on Baltic Ecosystem Health Issues (SGEH) <i>Groupe d'étude sur l'état de santé de l'écosystème en mer Baltique</i>	209 Eugeniusz Andrulewicz (Poland) Sea Fisheries Institute, Gdynia eugene@mir.gdynia.pl
ICES/BSRP Workshop on Developing and Testing Environmentally Sensitive Stock–Recruitment Relationships of Baltic Herring and Sprat Stocks (WKSSRB) <i>Atelier ICES/BSRP sur le développement et l'analyse des relations stock-recrues écologiquement sensible des stocks de hareng et de sprat de la mer Baltique</i>	253 Max Cardinale (Sweden) Swedish Board of Fisheries, Institute of Marine Research, Lysekil massimiliano.cardinale@fiskeriverket.se 209 Piotr Margonski (Poland) Sea Fisheries Institute, Gdynia pmargon@mir.gdynia.pl

Diadromous Fish Committee / Comité des poissons diadromes		
Study Group on Salmon Age Determination (SGSAD) <i>Groupe d'étude sur la détermination de l'âge du saumon</i>		78 Jari Raitaniemi (Finland) Finnish Game and Fisheries Research Institute, Turku <i>jari.raitaniemi@rktl.fi</i>
Workshop on Salmon Historical Information – New Investigations from Old Tagging Data (WKSHINI) <i>Atelier sur les données historiques de saumon – nouvelle recherche fondée sur des données anciennes de marquage</i>		190 Lars Petter Hansen (Norway) Norwegian Institute for Nature Research, Oslo <i>l.p.hansen@nina.no</i>
Study Group on Data Requirements and Assessment Needs for Baltic Sea Trout (SGBALANST) <i>Groupe d'étude sur les besoins en données et en évaluation sur les truites de mer de la Baltique</i>		50 Stig Pedersen (Denmark) DTU Aqua, Department of Inland Fisheries, Silkeborg <i>sp@aqua.dtu.dk</i>
Fisheries Technology Committee / Comité sur la technologie de pêche		
Working Group on Fisheries Acoustics Science and Technology (WGFAST) <i>Groupe de travail sur l'étude de la science et la technologie acoustique de la pêche</i>		3 Rudy Kloser (Australia) CSIRO, Hobart <i>rudy.kloser@csiro.au</i>
ICES-FAO Working Group on Fishing Technology and Fish Behaviour (WGFTFB) <i>Groupe de travail CIEM/ONUAA sur la technologie de pêche et le comportement des poissons</i>		137 Dominic Rihan (Ireland) Irish Sea Fisheries Board, Dublin <i>rihan@bim.ie</i>
Study Group on Survey Trawl Standardization (SGSTS) <i>Groupe d'étude sur la standardisation des chaluts</i>		280 David Reid (UK) Fisheries Research Services, Aberdeen <i>david.reid@marine.ie</i>
Working Group on Quantifying All Fishing Mortality (WGQAF) <i>Groupe de travail sur la quantification de mortalité totale par pêche</i>		282 Phil MacMullen (UK) Fishgate, Hull <i>p_macmullen@seafish.co.uk</i>
Study Group on the Development of Fish Pots for Commercial Fisheries and Survey Purposes (SGPOT) <i>Groupe d'étude sur la mise au point de casiers pour les pêcheries commerciales et pour les campagnes scientifiques</i>		68 Bjarti Thomsen (Faroe Islands) Faroeese Fisheries Laboratory, Tórshavn <i>bjartit@frs.fo</i>

Study Group on Fish Avoidance of Research Vessels (SGFARV) <i>Groupe d'étude sur l'évitement par les poissons des navires de recherches</i>	100 François Gerlotto (France) IRD, Sète francois.gerlotto@ird.fr
Study Group on Fisheries Optical Technologies (SGFOT) <i>Groupe d'études sur les technologies de visualisation appliquées aux pêches</i>	336 Julia Parrish (USA) School of Aquatic and Fisheries Sciences, Seattle jparrish@u.washington.edu
Study Group on Fisheries Optical Technologies (SGFOT) <i>Groupe d'études sur les technologies de visualisation appliquées aux pêches</i>	183 Eirik Tenningen (Norway) Institute of Marine Research, Bergen eirik.tenningen@imr.no
Planning Group on the HAC Data Exchange Format (PGHAC) <i>Groupe de planification sur le format d'échange des données HAC</i>	86 Laurent Berger (France) IFREMER, Plouzané laurent.berger@ifremer.fr
Study Group on Combining Gear Parameters into Effort and Capacity Metrics (SGEM) <i>Groupe d'étude sur la combinaison entre paramètres d'appareillage et métriques d'effort et de capacité</i>	280 David Reid (UK) Fisheries Research Services, Aberdeen david.reid@marine.ie
Study Group on Combining Gear Parameters into Effort and Capacity Metrics (SGEM) <i>Groupe d'étude sur la combinaison entre paramètres d'appareillage et métriques d'effort et de capacité</i>	141 Norman Graham (Ireland) Marine Institute, Oranmore norman.graham@marine.ie
Mid-term meeting of the Fisheries Technology Committee (FTC) <i>Réunion à mi-parcours du Comité de Technologie appliquées aux Pêcheries</i>	331 Bill Karp (USA) National Marine Fisheries Services, Seattle bill.karp@noaa.gov
Living Resources Committee / Comité sur les ressources vivantes	
Stock Identification Methods Working Group (SIMWG) <i>Groupe de travail sur les méthodes d'identification des stocks</i>	144 Stefano Mariani (Ireland) School of Biology and Environmental Science, Dublin stefano.mariani@ucd.ie
Working Group on Mackerel and Horse Mackerel Egg Surveys (WGMEGS) <i>Groupe de travail sur les études d'oeufs de maquereaux et de chinchards</i>	226 Paula Alvarez (Spain) AZTI, Pasaia palvarez@pas.azti.es
Working Group on Crangon Fisheries and Life History (WGCRAN) <i>Groupe de travail sur la pêche et stades de vie des crangons</i>	270 Andy Revill (UK) Cefas, Lowestoft andrew.revill@cefas.co.uk

Working Group on Cephalopod Fisheries and Life History (WGCEPH) <i>Groupe de travail sur la pêche et stades de vie des céphalopodes</i>	238 Graham Pierce (UK) Instituto Español de Oceanografía, Centro Oceanográfico de Vigo graham.pierce@vi.ieo.es
Working Group on Beam Trawl Surveys (WGBEAM) <i>Groupe de travail sur les campagnes de chaluts à perche</i>	166 Ingeborg de Boois (the Netherlands) IMARES, Wageningen UR, IJmuiden ingeborg.deboois@wur.nl
Baltic International Fish Survey Working Group (WGBIFS) <i>Groupe de travail sur les campagnes internationales des poissons baltiques</i>	52 Henrik Degel (Denmark) DTU AQUA, Section for Fisheries Advice, Charlottenlund hd@aqua.dtu.dk
Working Group on Fish Ecology (WGFE) <i>Groupe de travail sur l'écologie des poissons</i>	25 Daniel Duplisea (Canada) Fisheries and Oceans, Mont-Joli duplisead@dfo-mpo.gc.ca
Working Group on Seabird Ecology (WGSE) <i>Groupe de travail sur l'écologie des oiseaux de mer</i>	290 Jim Reid, (UK) JNCC, Aberdeen jim.reid@jncc.gov.uk
Working Group on Acoustic and Egg Surveys for Sardine and Anchovy in ICES Areas VIII and IX (WGACEGG) <i>Groupe de travail sur les campagnes d'acoustique et les campagnes sur les oeufs pour la sardine et l'anchois dans les zones VIII et IX du CIEM</i>	226 Andres Uriarte, (Spain) AZTI-Tecnalia, Pasaia auriarte@pas.azti.es
Working Group on the Biology and Life History of Crabs (WGCRAB) <i>Groupe de travail sur la biologie et l'histoire de vie des crabes</i>	270 Julian Addison (UK) Cefas, Lowestoft j.t.addison@cefas.co.uk
ICES/GLOBEC Working Group on Life Cycle and Ecology of Small Pelagic Fish (WGLESP) <i>Groupe de travail CIEM/GLOBEC sur le cycle de vie et l'écologie des petits poissons pélagiques</i>	89 Pierre Petitgas (France) IFREMER, Nantes pierre.petitgas@ifremer.fr
Planning Group for Herring Surveys (PGHERS) <i>Groupe de planification sur les études du hareng</i>	120 Norbert Rohlf (Germany) Johann Heinrich von Thünen-Institut, Institute for Sea Fisheries, Hamburg norbert.rohlf@ish.bfa-fisch.de
Planning Group on North Sea Cod and Plaice Egg Surveys in the North Sea (PGEGBS) <i>Groupe de planification des campagnes d'études des oeufs de morue et de plie en mer du Nord</i>	270 Clive Fox (UK) Cefas, Lowestoft c.j.fox@cefas.co.uk

Planning Group on the Northeast Atlantic Continental Slope Survey (PGNEACS) <i>Groupe de planification sur la campagne du talus continental de l'Atlantique nord-est</i>	141 Leonie Dransfeld (Ireland) Marine Institute, Galway leonie.dransfeld@marine.ie
Workshop and Training Course on Nephrops Burrow Identification (WKNEPHBID) <i>Atelier et stage sur l'identification des terriers de langoustines</i>	270 Ewen Bell (UK) Cefas, Lowestoft ewen.bell@cefass.co.uk
Workshop on Seabird Ecological Quality Indicator (WKSEQUIN) <i>Atelier sur les oiseaux marins comme indicateurs de qualité écologique</i>	290 Ian Mitchell (UK) JNCC, Aberdeen ian.mitchell@jncc.gov.uk
ICES/PICES/GLOBEC-SPACC Workshop on Changes in Distribution and Abundance of Clupeiform Small Pelagic Fish in Relation to Climate Variability and Global Change (WKSPCLIM) <i>Atelier ICES/PICES/GLOBEC-SPACC sur les changements en distribution et abondance des petits poissons pélagiques clupéiformes en relation avec la variabilité climatique et le changement global</i>	109 Jürgen Alheit (Germany) Baltic Sea Research Institute, Warnemünde juergen.alheit@io-warnemuende.de 121 Rüdiger Voss (Germany) Leibniz-Institut für Meereswissenschaften, Kiel rvoss@ifm-geomar.de 337 Gordon Kruse, USA (PICES) School of Fisheries and Ocean Sciences, UAF Fisheries Division, Juneau gordon.kruse@uaf.edu
Mariculture Committee / Comité sur la mariculture	
Working Group on the Application of Genetics in Fisheries and Mariculture (WGAGFM) <i>Groupe de travail sur l'application de la génétique dans la pêche et la mariculture</i>	50 Einar Eg Nielsen (Denmark) DTU Aqua, Department of Inland Fisheries, Silkeborg een@dfu.min.dk
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Working Group on Marine Shellfish Culture (WGMASC) <i>Groupe de travail sur l'aquaculture des invertébrés</i>	20 Peter Cranford (Canada) Fisheries and Oceans, Dartmouth cranfordp@mar.dfo-mpo.gc.ca
Marine Habitat Committee / Comité sur l'habitat marin	
Benthos Ecology Working Group (BEWG) <i>Groupe de travail sur l'écologie de la faune benthique</i>	121 Heye Rumohr (Germany) Leibniz-Institut für Meereswissenschaften, Kiel hrumohr@ifm-geomar.de
Working Group on the Effects of Extraction of Marine Sediments on the Marine Ecosystem (WGEXT) <i>Groupe de travail sur les effets d'extraction des sédiments marins sur l'écosystème marin</i>	136 Gerry Sutton (Ireland) Coastal and Marine Resource Centre, University College Cork gerry.sutton@ucc.ie
Working Group on Biological Effects of Contaminants (WGBEC) <i>Groupe de travail sur les effets biologiques des contaminants</i>	270 John Thain (UK) Cefas, Lowestoft john.thain@cefas.co.uk
Working Group on Statistical Aspects of Environmental Monitoring (WGSAEM) <i>Groupe de travail sur les aspects statistiques de la surveillance de l'environnement</i>	169 Richard Duin (the Netherlands) Rijkswaterstaat Centre for Water Management, Lelystad richard.duin@rws.nl
Working Group on Marine Sediments in Relation to Pollution (WGMS) <i>Groupe de travail sur les sédiments marins par rapport à la pollution</i>	163 Foppe Smedes (the Netherlands) Deltares, Utrecht foppe.smedes@deltares.nl 14 Patrick Roose (Belgium) MUMM, Oostende Department patrick.roose@mumm.ac.be
Marine Chemistry Working Group (MCWG) <i>Groupe de travail sur la chimie marine</i>	141 Evin McGovern (Ireland) Marine Institute, Galway evin.mcgovern@marine.ie
Working Group on Marine Habitat Mapping (WGMHM) <i>Groupe travail sur la cartographie de l'habitat marin</i>	289 David Connor (UK) Joint Nature Conservation Committee, Peterborough david.connor@jncc.gov.uk

Working Group on Integrated Coastal Zone Management (WGICZM) <i>Groupe de travail sur la gestion intégrée de la bande côtière</i>	242 Beatriz Morales-Nin (Spain) Instituto Mediterráneo Estudios Avanzados (CSIC/UIB), Esporles, Mallorca <i>ieabmn@uib.es</i>
Study Group on Biodiversity Science (SGBIODIV) <i>Groupe d'étude sur la science de la biodiversité</i>	270 Michaela Schratzberger, (UK) Cefas, Lowestoft <i>m.schratzberger@cefas.co.uk</i>
Workshop on Fisheries Management in Marine Protected Areas (WKFMMPA) <i>Atelier sur la gestion des pêches dans les aires marines protégée</i>	23 Jake Rice (Canada) Fisheries and Oceans, Ottawa <i>ricej@dfo-mpo.gc.ca</i>
Workshop on Benthos Related Environmental Metrics (WKBEMET) <i>Atelier sur les métriques biologiques liées au benthos</i>	15 Ine Moolaert, (Belgium) ILVO, Oostende <i>ine.moolaert@ilvo.vlaanderen.be</i>
Workshop on the Role of Phytobenthic Communities in ICES Waters (WKPHYT) <i>Atelier sur le rôle des communautés phytobenthique dans les eaux du CIEM</i>	265 Hans Kautsky (Sweden) University of Stockholm, Department of Systems Ecology <i>hassek@system.ecology.su.se</i>
Oceanography Committee / Comité sur l'océanographie	
Working Group on Recruitment Processes (WGRP) <i>Groupe de travail sur les processus de recrutement</i>	312 Tom Miller (USA) Chesapeake Biological Laboratory, Solomons <i>miller@cbl.umces.edu</i>
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	54 Kai Wieland (Denmark) North Sea Centre, Hirtshals <i>kw@aqua.dtu.dk</i>

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Groupe de travail sur l'hydrographie océanique

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291
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ICES–IOC Working Group on Harmful Algal Bloom Dynamics (WGHABD)
Groupe de travail CIEM–COI sur la dynamique des éclosions planctoniques nuisibles

141
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Workshop on Historical Data on Fisheries and Fish (WKHIST) <i>Atelier sur les données des pêcheries et des poissons</i>	168 Martin Pastoors (the Netherlands) IMARES, Wageningen UR, IJmuiden martin.pastoors@wur.nl 56 Bo Poulsen (Denmark) Roskilde University, Roskilde bopo@ruc.dk



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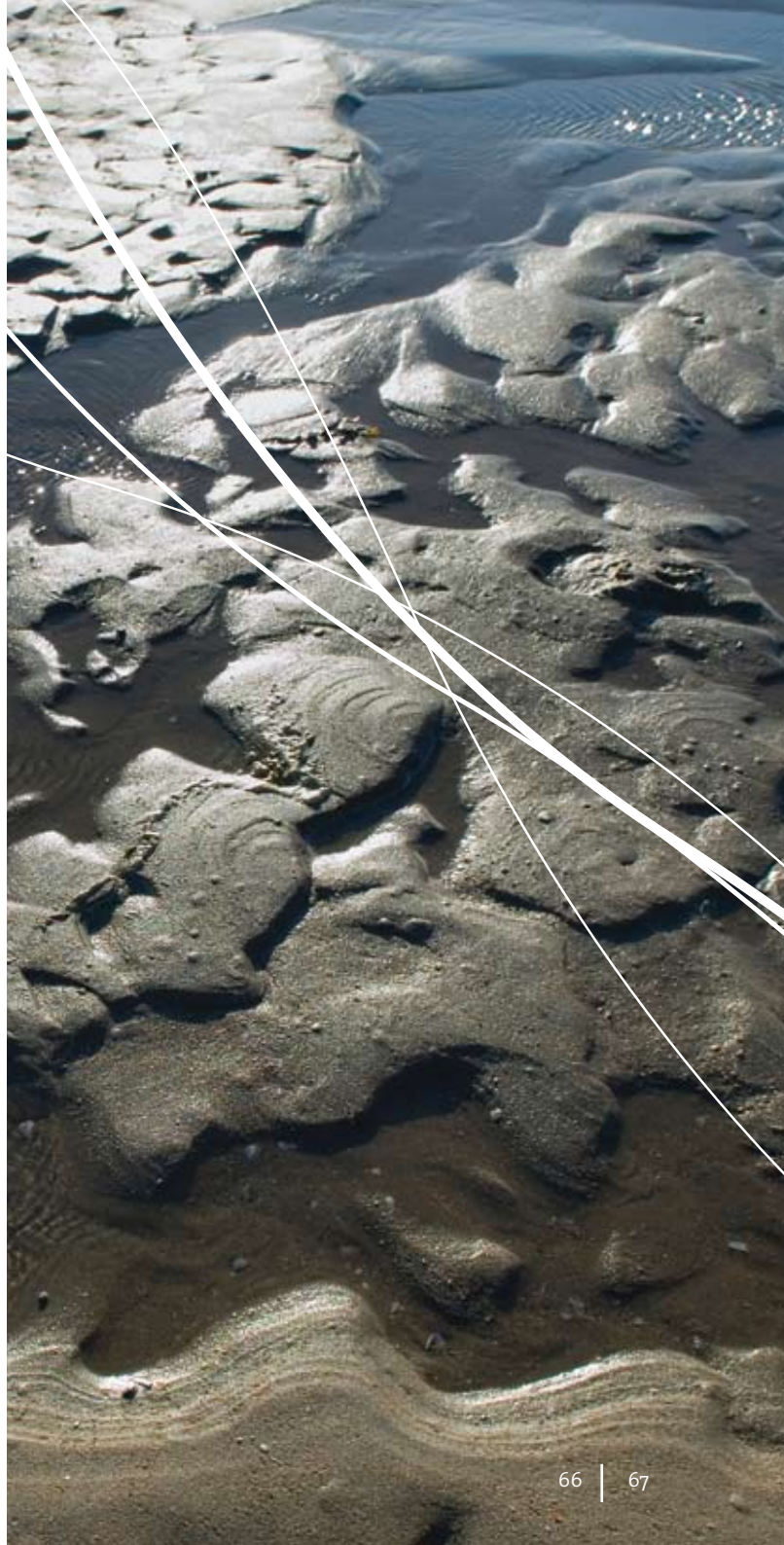
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