IODE Group of Experts on Marine Information Management (GE-MIM)

Ninth Session

IOC Project Office for IODE, Oostende, Belgium
17-20 September 2007
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III. LIST OF PARTICIPANTS
IV. IODE STRATEGIC PLAN – MARINE INFORMATION MANAGEMENT
V. LIST OF ACRONYMS
1. OPENING OF THE SESSION

The Chair of the Group, Ms Suzie Davies, welcomed the participants to the Ninth Session of the IODE Group of Experts on Marine Information Management and thanked the IOC Project Office for IODE for hosting and do-funding the event.

In her opening remarks Ms Davies extended a special welcome to the new committee members, Linda Noble from the United Kingdom and Linda Pikula of the USA. She also welcomed Pauline Simpson who had now been invited to attend GE-MIM as an invited expert after retiring from the National Oceanography Centre Southampton, earlier this year. Unfortunately Sofia Goulala was unable to attend.

Ms Davies recalled that the GE-MIM last met in September 2004 in Hobart, Australia. Although GE-MIM had not met since the GE-MIM Chair had participated in several IODE-related activities. She attended the 18th Session of IODE here in Oostende, in April 2005. At that meeting, there was a proposal to abolish the 3 groups of experts, which advise IODE. After much discussion and considerable support for GE-MIM voiced at the meeting, this proposal was not supported by the Session. However, a working group was established to develop a future strategy and structure for IODE Groups of Experts. A draft paper was presented by the GE-MIM Chair on behalf of all the GEs to the IODE Officers Meeting, held in Oostende, in February 2006. After input from the IODE Officers, a final paper was presented (by the GE-MIM Chair) to IODE 19, in Trieste, Italy, 12-16 March 2007.

Ms Davies further informed the Group that she represented GE-MIM at the 1st Formal Meeting of the Re-established Pacific Regional Group of IAMSLIC in New Caledonia in April 2006. That meeting decided to submit a request for the establishment of a Pacific-based ODIN. However, within 10 months of that meeting 7 of the 8 regional participants left their jobs. New people are now in place, and they are keen to pursue the idea.

The Chair noted that the IODE programme is extremely under-funded, and will continue to be in the immediate future. She called on the GE-MIM members to bear this in mind when drafting the GE-MIM work plan. Ms Davies furthermore invited the members to focus on MIM priorities during the next 5 years in accordance with IOC’s results-based-management approach. GE-MIM should identify opportunities with other agencies for collaboration on those priorities, and how we can make the most effective use of the small resources we have to achieve what the IODE asks of us. We need to be focused on what is achievable.

On a more positive note, Ms Davies noted that MIM components of the existing ODINS have gone from strength to strength, and great things have been achieved, thanks to the commitment and hard work of those involved. Also, IODE products have progressed considerably: OceanTeacher, OceanExpert and e-repositories, again thanks to the hard work of those associated with those products. Also, the IODE now has at least 33 National Coordinators for Marine Information Management. This is a new situation from the previous GE-MIM meeting. Those people have already shown their enthusiasm to participate in IODE activities. For the first time we have available a lot of people who may be able to help on projects and activities. GE-MIM needs to make wise use of this considerable resource of people.

Ms Davies informed the Group that, prior to this meeting, she sought input and opinions from all MIM NCs, as well as IAMSLIC, on what they saw as the burning issues now and into the future for marine information management. These needed to be taken into consideration throughout the current Session.
2. ADMINISTRATIVE ARRANGEMENTS

The Technical Secretary, Mr Peter Pissierssens, informed the Group of the available working documents and called attention to the provisional agenda (http://www.iode.org/index.php?option=com_oe&task=viewEventAgenda&eventID=85). He reminded the Group that all documents had been made available through the IODE web site.

The Group adopted the Agenda of the meeting.

Bearing in mind the long inter-sessional period since the previous Session and in order to make the best possible use of the time available, the Group decided to adopt only the work plan during the Session, and to adopt the summary report after the Session by email. The Group further requested the Secretariat to finalize the draft report not later than 2 weeks after the Session for review by the members (by email) and to publish the final version of the report not later than one month after the Session.

The Group decided to focus on clear actions that can be achieved within an inter-sessional period of one year and instructed the Secretariat to highlight all adopted actions in yellow in the report to enhance clarity.

3. REPORT ON INTERSESSIONAL ACTIVITIES

3.1 IMPLEMENTATION STATUS OF THE GE-MIM-VIII WORK PLAN

The Group reviewed progress made with the work plan of its previous Session, held in 2004. In this regard the Group recognized that two Sessions of the IODE Committee had taken place since the eighth Session.

<table>
<thead>
<tr>
<th></th>
<th>GE-MIM-VI Action 3: Request Publishers to ask Authors to Define Keywords using ASFIS Thesaurus:</th>
<th>Responsibility</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>1</td>
<td>- The Group requested the IOC Secretariat to post the file on the IODE web site (as well as link to the searchable version) with source acknowledgement.</td>
<td>Secretariat</td>
<td>Sep 04</td>
</tr>
<tr>
<td></td>
<td>- The Group requested the Mrs Goulala to email (or mail) the URL for the Thesaurus (on the IODE web site) to the Publishers (Deadline: October 2004).</td>
<td>S. Goulala</td>
<td>Sep 04</td>
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</table>

Mr Pissierssens reported that the ASFA Thesaurus was posted on the IODE web site on 14 September 2004 (http://www.iode.org/iodeold/contents.php?id=295). However he noted that this content had not been migrated to the new web site created in December 2006.

The Group decided that this content should be made available through the new IODE web site (see Agenda Item 4.2).
**The Group recommended** to link to the FAO ASFA Thesaurus web site rather than having the document on the IODE web site.

**The Group decided** to prepare a list of Publishers who should be the target of an emailed letter informing them of the ASFA Thesaurus and recommending that this tool should be used as a reference for keyword allocation.

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<tr>
<td>2</td>
<td><strong>GE-MIM-VI Action 4: Monitoring of Electronic Copyright Legislation in Relation to Electronic Document Delivery:</strong></td>
<td>Secretariat</td>
<td>Sep 04</td>
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<td></td>
<td>- The Group recommended that the content of Document IOC/IODE-MIM-VIII/6 be posted on the IODE web site (deadline: immediately). The page should be called “An introduction to electronic copyright legislation for use by librarians – a selective review as of March 2003”. There should also be a link to the UNESCO Collection of National Copyright)</td>
<td>Secretariat</td>
<td>Oct 04</td>
</tr>
<tr>
<td></td>
<td>- The updated “page” should also be reported to Ms. Linda Pikula to be included in OceanTeacher</td>
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Mr Pissierssens reported that the content of Document IOC/IODE-MIM-VIII/6 had been posted on the IODE web site on 15 September 2004 ([http://www.iode.org/iodeold/contents.php?id=296](http://www.iode.org/iodeold/contents.php?id=296)). However he noted that this content had not been migrated to the new web site created in December 2006.

**The Group decided** that this content should be made available through the new IODE web site (see Agenda Item 4.2) but, as the content changes so regularly, **the Group decided** that a link should be made to the relevant page in OceanTeacher Digital Library ([http://iodeweb3.vizie r.be/oceanteacher/index.php?module=resourcekit&action=content&nodeid=gen11Srvx22NMe37_797](http://iodeweb3.vizier.be/oceanteacher/index.php?module=resourcekit&action=content&nodeid=gen11Srvx22NMe37_797)) rather than creating/duplicating content in the new web site. The content in the old web site should therefore not be migrated.

Ms Linda Pikula reported that a page on copyright has been created in the OceanTeacher Digital Library (see above).

**The Group decided** to also integrate the topic of licensing into the copyright page in OceanTeacher DL.

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<td>3</td>
<td><strong>GE-MIM-VI Action 5: Meeting of ICS PRO &amp; other UN Agencies on Co-ordination of MIM Activities:</strong></td>
<td>Chair/Secretariat</td>
<td>Sep 04</td>
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<td></td>
<td>- The Group called for closer collaboration intra-UNESCO, especially with the Communication and Information (CI) Sector and tasked the Chair and IOC Secretariat to establish this collaboration</td>
<td>GE-MIM</td>
<td></td>
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<tr>
<td></td>
<td>- The Group instructed its members to study the</td>
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UNESCO Libraries Portal and identify concrete possibilities for cooperation between IODE/MIM and UNESCO CI.

Mr Pissierssens reported that he had meetings with the Assistant Director-General of UNESCO for the Communication and Information sector (ADG/C1). He had expressed interest in closer collaboration between his sector and IOC. Some collaboration had subsequently been established through the CCT (cross-cutting theme) projects of UNESCO (regional ocean portal projects). Further discussions on this in Agenda item 4.3.

**The Group decided** to look into the UNESCO CI web site and identify topics or which cooperation should be pursued. **The Group established** an inter-sessional working group to deal with this issue, composed of Linda Noble, Linda Pikula, and Janice Beattie.

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<th>4</th>
<th>GE-MIM-VI Action 12: ILL Software</th>
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<td>Chair/Secretariat</td>
<td>Sep 04</td>
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<tr>
<td>The Group requested the Chair and IOC Secretariat to inquire from the Prospero Project leader (Eric Schnell) about future plans with Prospero. If the project can no longer be continued by the original developers then it could be investigated whether IODE/GE-MIM (possibly in cooperation with IAMSLIC and ASFA) could take over the maintenance and distribution of Prospero</td>
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Mr Pissierssens informed the meeting that contacts were made with the Prospero developers in September and October 2004. An email was sent to Dr Schnell on 15 September 2004. No response was received. Ms Davies also contacted the Prospero developers and she received a reply indicating that the future of the project was being re-evaluated. After November 2004 no new information on Prospero has been received. The Prospero website hosted by the Ohio State University ([http://bones.med.ohio-state.edu/prospero/](http://bones.med.ohio-state.edu/prospero/)) is still on line but apparently has not been updated since June 2007.

**The Group**, noting that sending of scanned documents in increasing done as email attachments, **concluded** that the need for specific ILL document transmission applications may no longer exist. In addition new ILMS software suites may include this functionality.

**The Group therefore closed this item without further action.**

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<th>5</th>
<th>GE-MIM-VI Action 13: Paper on Hardware/software Requirements for Marine LIC:</th>
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<tr>
<td>Secretariat</td>
<td>Sep 04</td>
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<tr>
<td>The Group requested the Secretariat to forward the document to the OceanTeacher Chief Editors for inclusion in OceanTeacher (Deadline: immediately).</td>
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The documentation was passed on to Ms Pikula by Dr Tapaswi. It was included into OceanTeacher in 2004.

The Group considered the need to revise the document on ILMS applications. The Group noted that ILMS applications change quickly and any list created by GE-MIM or OceanTeacher would be out of date too quickly. This may also be included in the UNESCO CI portal. Maybe also other library associations maintain lists of ILMS applications. It may therefore be better to include in OceanTeacher a list of web sites where lists of ILMS applications are maintained.

**The GE-MIM instructed** the OceanTeacher MIM editor to create a page in the DL (digital library) that links to relevant web sites that collate and/or review library software applications.

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<td>6</td>
<td>GE-MIM-VI Action 25: MIM web site Development:</td>
<td>Secretariat</td>
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<td></td>
<td>The Group recommended the following modifications to</td>
<td>Working Group</td>
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<td>the General Info section of the IODE web site (see body</td>
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<td></td>
<td>of report)</td>
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<td></td>
<td>The Group decided to establish an inter- sessional</td>
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<td>working group that will study the MIM elements of the</td>
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<td>IODE web site and recommend necessary modifications. The</td>
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<td>Group will be composed of the Chair, Pauline Simpson, Jan</td>
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<td></td>
<td>Haspeslagh and Jane Barnwell</td>
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Mr Pissierssens reported that the required changes to the General Section of the web site had been made immediately following GE-MIM-VIII. However this was not maintained in the new site (December 2006). The new site contains, under General Information, a section called “Info management” which was written by Linda Pikula and Pauline Simpson in 2005.

Further discussions on this item were held under Agenda Item 4.2

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<td>7</td>
<td>IODE-XVI para. 221 (Marine Pollution):</td>
<td>Secretariat</td>
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<td></td>
<td>The Group decided to post the information contained in</td>
<td></td>
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<td></td>
<td>the Document on the IODE web site and to close this</td>
<td></td>
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<td></td>
<td>action item.</td>
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Mr Pissierssens reported that the information had been added to the IODE web site ([http://www.iode.org/iodeold/contents.php?id=300](http://www.iode.org/iodeold/contents.php?id=300)). However he noted that this content had not been migrated to the new web site created in December 2006.

**The Group decided not to migrate the new site, as it is now out of date.**
Ms Simpson recalled that IODE-XIX had noted the importance of subject-specific products (e.g. IPY) and that marine information managers had a role to play (e.g. specialized bibliographies). Mr Pissierssens mentioned the marine atlas example and asked whether MIM managers should play a role. The Group observed that MIM managers have considerable experience in seeking for information or data (national, regional, international library networks). This capability should be actively promoted.

**The Group called on IOC/IODE to ensure that marine librarians are actively involved in projects like marine atlases.**

This agenda item was further discussed under item 4.2

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<th>GE-MIM-VII: Co-operation with ASFA</th>
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<td>8</td>
<td></td>
<td>P. Simpson</td>
<td>Dec 04</td>
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The Group was informed that the paper was not prepared as IODE’s MIM programme was not preparing relevant information products at the time. This has now changed and there are now several information products that may be of interest to ASFA.

More discussion on this under Agenda Item 4.3 and 6.

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<tr>
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<th>GE-MIM-VII: Access to E-Journals</th>
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<td>9</td>
<td></td>
<td>Chair/M. Goovaerts</td>
<td>Dec 04</td>
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<td></td>
<td>Chair</td>
<td>Dec 04</td>
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<td></td>
<td>M. Odido</td>
<td>Sep 04</td>
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M. Goovaerts reported that EBSCO agreed to set up an A-to-Z site for developing countries. The A-Z service allows setting up list of journals relevant to particular communities. A list of open access journals has already been established as a prototype in September 2007 for IOC/IODE (http://atoz.ebsco.com/home.asp?id=8623). This product contains about 16,000 titles of open access journals (not limited to marine sciences). The links lead to the web site of the journal. Marc Goovaerts requested access to the management functions, which will enable adding new journals.

**The Group instructed** the Secretariat to add a link to the service from the IODE web site and **requested** the administrators of ODIN web sites to do the same for their web sites.

Ms Pauline Simpson expressed concern about the workload on Marc Goovaerts and the potential problem of ensuring regular updating of the service.

Regarding establish closer contacts with INASP (http://www.inasp.info, EIFL (http://www.eifl.net), HINARI (http://www.who.int/hinari/en/), AGORA (http://www.aginternetwork.org/en/) to improve access by marine librarians in developing countries, the Group was informed that this is being done through the above mentioned service which is accessible to libraries in developing countries.

Mr Pissierssens reported that the ODINAFRICA community was informed of the open access programmes such as INASP, EIFL, AGORA, OARE (http://www.oaresciences.org/en/) (online access to research in the environment) and HINARI and encouraged to register and utilize the services provided by these programmes. Regularly updates on the activities of these programmes were circulated through the mailing list for ODINAFRICA Information Managers.

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| 10 | **GE-MIM-VII: e-Print repositories: Cross-search Service for Marine Science**  
- The Group urged IOC Member States to establish institutional e-repositories and requested the Secretariat to issue a Circular Letter in this regard.  
- The Group requested Ms. Simpson, in collaboration with IAMSLIC to provide a list of examples of institutional repositories that will be referred to in the Circular Letter. | Secretariat (CL) | Nov. 04 |
|   | P. Simpson | Nov. 04 |

Mr Pissierssens reported that, rather than sending a Circular Letter, promotion of e-repositories had been undertaken within the framework of the OceanDocs project and more particularly through the regional sub-projects that have been funded through the Project Office (training courses) and Flanders-funded e-repository projects (2005-2006 and 2007).

Pauline Simpson reported that for the Circular Letter we could give link to Register of Open Access Repositories (ROAR) and Directory of Open Access Repositories (DOAR).

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<th>Deadline</th>
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| 11 | **GE-MIM-VII: z39.50 and Distributed Libraries**  
The Group recommended that a study be undertaken of existing middleware. In addition the issue of non- | S. Watkins | Early05 |
compliance of INMAGIC should be addressed and possibly middleware should be developed with priority by INMAGIC. The Group decided to request Steve Watkins to assist with this matter.

**The Group decided to close this item (see also 6.3)**

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<th>12</th>
<th>GE-MIM-VII: Digital Video Archiving</th>
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<td></td>
<td>The Group decided to request Ms Beattie to provide the Chapter to the OceanTeacher Editors for inclusion in OceanTeacher</td>
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<td></td>
<td>J. Beattie</td>
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<td></td>
<td>Oct 04</td>
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This item was completed.

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<tr>
<th>13</th>
<th>OceanPortal</th>
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<td></td>
<td>– classification: Modifications and re-categorization of websites in OceanPortal (details in body of report)</td>
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<tr>
<td></td>
<td>- OAI-PMH compliance: Make OceanPortal OAI compliant</td>
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<td></td>
<td>– metadata format: Adding field “submitted by”</td>
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<td></td>
<td>– Promotion in Asia and South/Central America</td>
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<td></td>
<td>– Cooperation with IAMS-LIC: Working group will coordinate the further development of OceanPortal and AquaTerra to ensure complementarity and avoid unnecessary duplication. It will also define the scope of both portals as mentioned above.</td>
</tr>
<tr>
<td></td>
<td>- maintenance</td>
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<tr>
<td></td>
<td>Secretariat (contractor) Cost USD 1000</td>
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<td></td>
<td>Early 05</td>
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<td>Secretariat (contractor) Cost USD 1000</td>
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<td>Sep 04</td>
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<td></td>
<td>Chair/P. Munoz Working Group</td>
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<td>Dec 04</td>
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<tr>
<td></td>
<td>Secretariat (contractor) Cost $5000/year</td>
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Mr Pissierssens reported on the requested modification and re-categorization of OceanPortal (see IOC/IODE-MIM-VIII/3 page 13) referring to the OceanPortal web site’s top level category “Information Resources” in OceanPortal (See Figure 1).
The Group concluded that all changes requested by GE-MIM-VIII were made.

The Group briefly reviewed the revised top-level category page and made the following observations and recommendations for further action:

- Categories are no longer in alphabetical order: The Group instructed that this be fixed;
- Why is there an @ at the end of some categories? The Group requested clarification;
- Translation: The Group instructed that this should be changed to “translation tools”
- What qualifies as “hot”? The Group requested clarification;
- OAI: not implemented but OP is picked by Google;
- Metadata format: (add “submitted by” field: unclear if this was implemented). The Group requested clarification;

Figure 1: OceanPortal top-level categories
• The Group recommended to rename “List your site” to “Recommend a site”;
• The Group requested that an option be added: “report a problem”;

The Group noted that no specific actions had been undertaken to promote OceanPortal, except for the poster, which can be requested through the OceanPortal homepage.

Regarding the ODINCARSA region, Ms Munoz reported that promotion was made through mailing lists.

The Group welcomed the considerable number of visits to the site (now approx. 30,000/year) demonstrating the interest in the product. The Group recommended that the site should be actively maintained and promoted.

Regarding maintenance of OceanPortal the Group recommended that an OP main editor be “hired” to undertake regular QC of the site. The Group recommended Dr Brown for this job, taking into consideration his excellent work on OP since the establishment of the site.

The Group also recommended that IODE National Coordinators for MIM take some responsibility for the QC of the product and instructed the OceanPortal main editor, when hired, and GE-MIM Chair should contact the IODE National Coordinators for MIM in this regard.

Regarding languages the Group recommended that the OP homepage and category listing should also be made available in Spanish as a way to promote the product. (It was noted that the site metadata cannot be translated). The Group further recommended adding a field “Language of content” and enabling filtering searches by this field.

Regarding cooperation with IAMSLIC Aquaterra the Group was informed that IAMSLIC’s project “Aquaterra” had been terminated so no further action was required.

See also Document IOC/IODE-XIX/31 (OceanPortal – including regional OceanPortals)

<table>
<thead>
<tr>
<th>19</th>
<th>OceanExpert</th>
<th>Responsibility</th>
<th>Deadline</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Secretariat (contractor)</td>
<td>Early 05</td>
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<tr>
<td></td>
<td></td>
<td>Cost: USD 2000</td>
<td></td>
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<td></td>
<td></td>
<td>ISWG</td>
<td>April 05</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>- Technical additions and corrections (details in body of report)</td>
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<td></td>
<td></td>
<td>- an inter-sessional working group, composed of Ms. Suzie Davies, Ms. Pauline Simpson, Mr. Peter Pissierssens and Mr. Benjamin Sims to (i) follow-up the implementation of the technical recommendations; (ii) prepare a brief management plan that will describe the terms of reference of OceanExpert, as well as a more detailed plan for future development. The inter-sessional group was tasked to complete its technical work (i) by April 2005. The document on future developments will be prepared early 2005 for submission to IODE- XVIII.</td>
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<tr>
<td></td>
<td></td>
<td>- maintenance</td>
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</table>
Mr Pissierssens referred to Document IOC/IODE-MIM-VIII/3 page 19 and noted that most of the requested actions had been taken. He also made reference to Document IOC/IODE-XIX/29 (The Global Directory of Marine and Freshwater Professionals: OceanExpert)

Reference is made to Agenda Item 6.1

<table>
<thead>
<tr>
<th>19</th>
<th>OceanTeacher</th>
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<tr>
<td></td>
<td>- The Group recommended to seek expertise amongst the IAMSLIC and EURASLIC community but also look beyond this group (e.g. IFLA) for topics of a general library and IT nature. It is important however to remain focused on marine library professionals as target audience.</td>
</tr>
<tr>
<td></td>
<td>- The Group requested Dr. Tapaswi to discuss this matter with Dr. Nieuwenhuysen and Ms. Pikula in order to finalize the Outline as presented in Document IOC/IODE-MIM-VIII/8.</td>
</tr>
<tr>
<td></td>
<td>- The Group expressed its concern about the need for resources for the continued updating of material beyond the duration of the current project (four years 2004-2007) and called on IOC to ensure the long-term support of OceanTeacher, especially in view of its possible accreditation.</td>
</tr>
<tr>
<td>Chair</td>
<td>Oct 04</td>
</tr>
<tr>
<td>M.P. Tapaswi</td>
<td>Oct 04</td>
</tr>
<tr>
<td>IODE</td>
<td>&gt;2007</td>
</tr>
</tbody>
</table>

Reference is made to Agenda Item 5.2

<table>
<thead>
<tr>
<th>20</th>
<th>Development of an African repository for electronic publications</th>
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<tbody>
<tr>
<td></td>
<td>- The Group requested Marc Goovaerts to inquire from the product developers about their future plans with DSpace.</td>
</tr>
<tr>
<td></td>
<td>- The Group recommended that a detailed analysis of both products be made based upon terms of reference of ODINPUBAfrica. The analysis will be drafted by Marc Goovaerts and Pauline Simpson (Deadline: end of 2005)</td>
</tr>
<tr>
<td>M. Goovaerts</td>
<td>Sep 04</td>
</tr>
<tr>
<td>M. Goovaerts/ P. Simpson</td>
<td>End 05</td>
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</table>

A study was made by Mr Goovaerts and DSpace was selected.  
Reference is made to Agenda Item 6.2
<table>
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<tr>
<th></th>
<th>Responsibility</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>21</td>
<td><strong>ODINAFRICA</strong></td>
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<tr>
<td></td>
<td>- The Group, referring to the presentation by the INMAGIC dealer, requested the Secretariat to inquire from INMAGIC about the planned phasing out of the Libraries module of DBTextWorks</td>
<td>Secretariat</td>
</tr>
<tr>
<td></td>
<td>- The Group requested the e-repository project team and the ASFA Secretariat to investigate the possible use of the e-repository as a source for ASFA. The use of AFRILIB should also be studied. The Group requested that Mr James Macharia (KMFRI, Kenya) should also be involved in the study.</td>
<td>e-repository project team/ASFA Secretariat/ J. Macharia</td>
</tr>
<tr>
<td></td>
<td>- The Group urged ODINAFRICA institutions to make available their services, products and expertise to all AFRIAMSLIC members, and to establish links with other marine information related projects in Africa (e.g. Aquaculture and Fisheries Information Network for Africa (FAO/SAIAB project)). [SAIAB: South African Institute for Aquatic Biodiversity]. The Group instructed the ODINAFRICA project manager to send a request to the ODINAFRICA information managers.</td>
<td>ODINAFRICA project manager</td>
</tr>
</tbody>
</table>

Regarding the INMAGIC issue reference is made to Agenda Item 6.3

Regarding the use of e-repositories as a source for ASFA, Ms Keita reported that this issue was discussed at the 2007 ASFA. An ASFA Trust Fund proposal (to be implemented by Dr Rybinski (Poland)) will be prepared by FAO (as ASFA Secretariat) to develop export/import routines from ASFISIS to other bibliographic database applications such as IMIS and INMAGIC/AFRILIB. This will involve visits to VLIZ (for IMIS) and the IOC Project Office for IODE (for the INMAGIC / AFRILIB database). Mr Goovaerts reported that ASFISIS already has an AGRIS export function. Ms Noble informed the Group that there had also been some discussions on the possibility of export in xml format. Mr Goovaerts reported that an import module from ASFISIS into other OceanDocs is also planned.

**The Group recommended** ensuring compatibility with ASFISIS when identifying a new ILMS for the ODINs. In this regard a more standard approach to import/export would be advisable. **The Group requested** the Chair to communicate with the ASFA Secretariat regarding the possibly change of ODIN-standard ILMS. **The Group, while noting** that CDS/ISIS is still widely used, **requested** that this software be taken into consideration as well.

Regarding AFRIAMSLIC, Ms Keita reported on the relation between ODINAFRICA and AFRIAMSLIC. It had been decided to organize ODINAFRICA training events back-to-back with AFRIAMSLIC meetings: associated with the 2007 ASFA Board there was a 1-day meeting for African input centres. There were some discussions on African MIM needs for the next phase of ODINAFRICA. That meeting also discussed the African OceanPortal, AFRIDIR and e-repositories, relation between OceanDocs Africa and Aquatic Commons (there was some concern of institutions that assumed that OceanDocs can only include marine
but not freshwater). An Aquatic Commons meeting (13 September) was organized back-to-back with AFRIAMSLIC (organized in Malawi, 10-12 September 2007). AFRIAMSLIC elected as its new Chair Ms Edna Nyika (Tanzania) who is also the ODINAFRICA MIM coordinator for Tanzania.

Further discussion on this topic under agenda items 4.3 and 6.2

<table>
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<tr>
<th>22</th>
<th><strong>ODINCARSA</strong></th>
<th>Responsibility</th>
<th>Deadline</th>
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<tbody>
<tr>
<td></td>
<td>- The Chair was tasked to contact the two ODINCARSA regional coordinators for MIM (Clara Ramirez and Donna Spencer) to jointly undertake the analysis and to prepare a training plan for ODINCARSA (and to the membership of the Latin America IAMSLIC group and IAMSLIC’s SAIL group).</td>
<td>C. Ramirez/ D. Spencer</td>
<td>Oct 04</td>
</tr>
<tr>
<td></td>
<td>- ASFA technical meetings (staff meetings). The ASFA Board 2004 had invited IOC to co-sponsor these meetings that will have strong training element. The Group supported this initiative and called on IOC to provide assistance.</td>
<td>IODE-XVIII</td>
<td>Apr 05</td>
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<td></td>
<td>- The Group noted that a request had been formulated for provision of ARIEL software and scanners to assist with an ODINCARSA ILL programme. The Group recommended that this request be given high priority and reference was made to item 8 of Agenda Item 3.</td>
<td>IODE-XVIII</td>
<td>Apr 05</td>
</tr>
<tr>
<td></td>
<td>- The Group ... urged the ODINCARSA marine information managers to develop a detailed project proposal for submission to donors</td>
<td>C. Ramirez/ D. Spencer</td>
<td>Mar 05</td>
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The ODINCARSA project has continued to develop. See Document IOC/IODE-XIX/36. See also 5.1.

<table>
<thead>
<tr>
<th>23</th>
<th><strong>Other regions: Pacific Islands region</strong></th>
<th>Responsibility</th>
<th>Deadline</th>
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<tbody>
<tr>
<td></td>
<td>- The Group requested Ms Davies to continue collecting the surveys and prepare an analysis for the Group and for the initiative mentioned above</td>
<td>S. Davies</td>
<td>Nov 04</td>
</tr>
<tr>
<td></td>
<td>- The Group requested Ms Jane Barnwell to prepare a document that details existing national institutions, regional organizations and their relationships as relevant to marine information management</td>
<td>J. Barnwell</td>
<td>Dec 04</td>
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<tr>
<td></td>
<td>- The Group requested the Technical Secretary to issue the Circular when informed by the PIRG Chair</td>
<td>Secretariat</td>
<td>Mar 05</td>
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<tr>
<td></td>
<td>- The Group requested PIRG to ensure submission</td>
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of a proposal by March 2005 in order to submit it to IODE-XVIII for funding.

PIRG/Chair Mar 05

24 Other regions: Eastern Europe

- The Group recommended that national and regional needs assessments be undertaken in cooperation with EURASLIC.
- The Group further requested the Eastern European IOC Member States, in collaboration with EURASLIC, to prepare a proposal for submission to IODE-XVIII (deadline: February 2005).

Responsibility
P. Simpson/EURASLIC IODE-XVIII/Eastern European IOC MS

Deadline
Feb 05
Feb 05

25 Other regions: South-East Asia region

The Group welcomed the initiative and called on IOC to consider providing advice and seed funding for the establishment of a South-East Asian IAMSLIC regional group taking into consideration the relevance of this proposal to WESTPAC. It requested the WESTPAC Secretariat to act on this matter.

Responsibility
IODE-XVIII/WESTPAC Secretariat

Deadline
April 05

The Group was informed that the ODINWESTPAC pilot project has been established: See Document IOC/IODE-XIX/39 but that the MIM component is not yet well defined. It was noted that this region includes the Pacific Islands. However the ODINWESTPAC focus currently does not well address the small Pacific Islands.

The Group noted that the needs of the small Pacific Islands deserve special attention, bearing in mind the ODINCARSA experience and the Caribbean Islands. In ODINWESTPAC the membership will not only include developing countries but also others such as Japan, Australia, China, Russia, France etc. This will enable the project to focus on capacity development but also on operational activities.
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<th>No.</th>
<th>Responsibility</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>26</td>
<td>INTEGRATED LIBRARY MANAGEMENT SYSTEMS (ILMS) software</td>
<td>M.P. Tapaswi</td>
</tr>
</tbody>
</table>

The Group decided that a new analysis will be made taking into consideration ILMS solutions available today both as commercial as open source applications. The Group stressed the importance of such a study in view of the possible requirement for such software for ODINCARSA and the ODINs possibly developed in the Pacific and Eastern Europe regions.

Discussion on this item under 6.3

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<th>No.</th>
<th>Responsibility</th>
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<tbody>
<tr>
<td>27</td>
<td>CO-OPERATION WITH OTHER ORGANIZATIONS, PROGRAMMES AND PROJECTS: Within IODE</td>
<td>Secretariat</td>
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</table>

- The Group re-iterated Recommendation IODE-MIM-VII.1 (Nomination of IODE National Coordinators) and requested IODE- XVIII to review its structure to include a “IODE National Coordinator for Data Management” and a “IODE National Coordinator for (Marine) Information Management” so that marine information management is treated equally within the IODE Programme. The Group requested the Secretariat to issue a Circular letter in this regard.

- The Group further urged Member States to promote the development of integrated oceanographic data and information facilities that provide information, metadata and data within a unified technology framework.

- The Group, noting the launching of new activities related to biodiversity within IODE, stressed the need to involve marine information professionals in such activities. This could involve development of e- repositories, support the efforts to manage and standardize taxonomic tools (e.g. uBio http://www.ubio.org ), identification of resources from published literature.

Chair GE-BICH | Octo 04 |

Mr Pissierssens reported that Circular Letter 2125 (23 September 2004) was issued (CL2125: IOC Circular Letter 2125 - NOMINATION OF IODE NATIONAL COORDINATORS FOR MARINE INFORMATION MANAGEMENT ). 32 nominations have been received (see IODE web site).
Ms Davies reported that this subject was discussed at IODE-XVIII as quite a number of MIM experts attended that Session. The need for integration was highlighted there repeatedly. However in practice the integration has not happened very often.

The Group regretted that MIM experts have not been involved in the African Marine Atlas. The Group requested that MIM experts be involved in the continued development of the African Marine Atlas, and to ensure that MIM experts are involved in any future marine atlas development project (e.g. Caribbean Marine Atlas).

The Group requested the management group of the OceanDataPortal (ODP) Project, through the IODE Co-Chairs, to consider the inclusion of MIM experts in the ODP project and its management group.

Regarding cooperation of MIM in other science programmes the Group requested that this should be further developed through the adopted IOC Strategic Plan for Oceanographic Data and Information and more particularly through the IOC D&IM Advisory Group.

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<th>No</th>
<th>Item Description</th>
<th>Responsibility</th>
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<tbody>
<tr>
<td>28</td>
<td>CO-OPERATION WITH IAMSLIC, EURASLIC AND RELATED MARINE LIBRARY ASSOCIATIONS</td>
<td>IAMSLIC members</td>
<td>&gt;Oct04</td>
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<td></td>
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<td>Chair/Sec/IAMSLIC Pres</td>
<td>&gt;Oct04</td>
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<td>IAMSLIC/EURASLIC GE-MIM-IX</td>
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<td>Secretariat Early 05</td>
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<td>Secretariat GE-MIM-IX</td>
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<td></td>
<td>IOC (Cost US$ 10K/yr)</td>
<td>&gt;05</td>
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This will be discussed under 4.3.

The Group instructed the Chair to urge MIM national coordinators to participate in IODE Committee Sessions.

Regarding cooperation Mr Pissierssens reported that the IAMSLIC-IOC MOU had expired and has not been renewed. EURASLIC has actively participated in, and contributed to the development of ODINECET. Financial support was provided to EURASLIC for a joint training course on OceanDocs (7-9 May 2007).

This item was discussed further under Agenda Item 4.3.

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<tr>
<th>29</th>
<th>CO-OPERATION WITH FAO</th>
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<tr>
<td></td>
<td>The Group urged FAO and IOC to establish collaboration and requested the IODE Technical Secretary to send a letter to the ADG of Fisheries at FAO in this regard.</td>
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<td>Secretariat</td>
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<td>Oct 04</td>
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Cooperation between IODE and FAO exists related to the work of GE-BICH

Cooperation between IOC and FAO on ASFA and on repositories (KCEW group) is discussed under Agenda Item 6.2

<table>
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<tr>
<th>30</th>
<th>DEVELOPMENT OF AN IODE MIM STRATEGIC PLAN</th>
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<tr>
<td></td>
<td>The Group decided to prepare a draft strategic plan for submission to IODE-XVIII</td>
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<td>Chair/ group</td>
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<td>Apr 05</td>
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Mr Pissierssens reported that the “IOC Strategic Plan for Oceanographic Data and Information Management” drafted by Dr Lesley Rickards and other IODE experts, was adopted by the 24th Session of the IOC Assembly (June 2007). It will now be published as IOC Manuals and Guides No. 49. See Agenda Item 4.4
3.2 IODE –XVIII AND IODE-XIX OUTCOME AS RELEVANT TO GE-MIM

Ms Davies introduced this item, referring to Document IOC/IODE-XIX/19 and IOC/IODE-XIX/3 as well as to IOC/IODE-XVIII/3. She recalled that IODE-XVIII had considered abolishing the Groups of Experts, based upon the recommendations of the IODE review. However strong support from the MIM experts at that Session had made the Committee reconsider and maintain the Groups.

She highlighted the main issues discussed at IODE-XIX regarding MIM:

- **IODE-XIX Agenda Item 3.4 – Reports of NODCs & DNAs**

22 reports were received from National Coordinators for MIM (out of a possible 33). By comparison, 34 reports on DM were received (out of a possible 88). IODE welcomed the excellent response from the MIM NC community.

**The Group decided** to review the template for submission of national reports with the view to make them more relevant to marine information management. **The Group requested** the Chair and Ms Janice Beattie to undertake this task.

- **IODE-XIX Agenda Item 4.2 – Impact of IODE Review and Follow-Up**

Ms Davies reported that IODE-XVIII had adopted Resolution IODE-XVIII.3 (IODE GROUPS OF EXPERTS) of reads as follows:

“Noting that the IODE Review had questioned the need for, and effectiveness of the IODE Groups of Experts,

**Considering** that:

(i) the GE-MIM has been an extremely active Group of Experts that has been instrumental in generating many IODE Marine Information Management projects, products and services during its twenty years of existence;

(ii) the GE-BICH deals with biological and chemical data which have been identified as important new areas for IODE;

(iii) the GE-TADE was merged with the JCOMM ETDMP into the JCOMM/IODE ETDMP and as such has a joint ownership,

**Acknowledging** that the IODE Groups of Experts need improved guidance to focus its activities,

**Instructs** the Chairs of the IODE Groups of Experts to jointly develop a strategy for the future, addressing issues such as:

(i) recommending a new structure and membership format for the IODE Groups of Experts, which offers flexibility, increased access to expanded pool of experts, and stronger focus on completion of tasks, whist also maintaining a wider coordination role;
(ii) suggesting mechanisms for improving communication and reporting between IODE Groups of Experts and National Co-ordinators for both data management and information management;

(iii) including in the new mechanism, the potential for establishing steering groups based on specific projects, and gaining appropriate expert advice when required;

(iv) suggesting mechanisms for improving communication amongst IODE Groups of Experts, and for offering direction to IODE Groups of Experts from the IODE Officer Group;

**Instructs** the Chairs of the IODE Groups of Experts to submit the strategy to the next Session of the IODE Officers for their consideration, and to the 19th Session of the IODE Committee, for adoption.”

The IODE Chair had requested the Chair GE-MIM (Ms Suzie Davies), Chair GE-BICH (Dr Edward Vanden Berghe) and Chair JCOMM/IODE ETDMP (Dr Nikolai Mikhailov) to organize a sessional working group meeting and draft recommendations for consideration by the Officers. The IODE Group of Experts Chairs consequently presented a draft strategy to the IODE Officers Meeting in March 2005. The IODE Officers then also stated that "the IODE Chair requested the Chairs of the Groups of Experts (GEs), taking into consideration the comments by the Officers, to finalize the proposed structure and strategy as a working document and draft resolution for consideration and adoption by the IODE-XIX Session”.

Consequently, all four major observations and comments by the IODE Officers were incorporated into the following proposal.

**Proposed Structure and Strategy**

**(i) Structure and membership format**

**Flexibility:**

- The new structure should provide for a percentage of a group’s membership to be ongoing, and for the remaining percentage to be short-term and associated with specific projects/tasks. This would increase a group’s ability to respond to changing needs & be more flexible in its approach to issues. It would also place a stronger focus on the completion of tasks. Continuity of the groups’ knowledge management and ongoing longer-term issues would be ensured by the ongoing positions.

**Access to expanded pool of experts:**

- IOC has available 2 pools of potential experts within the IOC structure: National Coordinators for Information Management & National Coordinators for Data Management (NCs). Members of both groups should be invited to submit their professional details to OceanExpert, so that IOC can maintain a current directory of experts, their skills and expertise. MIM experts are also available via the International Association of Aquatic and Marine Libraries and Information Centers (IAMSLIC) (refer **Memorandum of Understanding between IOC and IAMSLIC**).

- Implementation of GE work plans: this should not be limited to the members of the GE but can be “volunteered” by IODE National Coordinators (for DM and IM). In
this regard mailing lists will be established by the IODE Project Office for the GEs and, as necessary for specific activities of the GE to get additional input and help.

**Wider coordinating role of GEs:**

- GEs should take a co-ordinating role with NCs. This would involve each GE establishing a work program (under IODE direction) with clear priorities. Tasks/projects would be then allocated to NCs, and GEs would continue with a co-coordinating/management role.

**Selection of GE membership:**

- There should be a core, selected from Member State nominations by the IOC Executive Secretary (guided by Chairs GEs and Chair IODE). In addition extra experts can be added based upon the agenda of the meeting. Chairs of existing project Steering Groups can also be added;

- Duration of membership of core group: the membership duration will be one intersessional period, renewable after a positive assessment by the GE Chair and Chair IODE. The GE Chair will be assessed by the Chair IODE

(ii) **Improving communications (GEs to NCs)**

- GEs should better communicate their activities to the IODE community through sending regular information to the National Coordinators (NCs). GEs can also send questions to NCs. NCs should play an active role in the development of the IODE Strategic Plan, by providing regular input and suggestions and highlighting issues/information gaps for action or consideration to the GEs.

- An email listserv should be established for both data and information National Coordinators, also including any GE members who are not in these groups. It is recommended that people undertake an induction process when they first take on these roles, to ensure that they have a clear understanding of the role & responsibilities of the positions. The expected role of National Coordinators for Information Management is defined in the document entitled *Role of National Coordinators for Marine Information Management (MIM)* (Attachment 1).

- The GEs should perform a coordinating role for National Co-ordinators. Annual reporting procedures should be established so there is a constant flow of information between groups. Biennial Workshops/Conferences aligned with outside bodies should be encouraged (e.g. OBI, IAMSILIC).

(iii) **Improving communications (NCs to GEs to IODE Officers Group)**

- NCs should prepare annual reports to the GEs (e.g. achievements, progress on tasks, issues of concern, interactions with other NCs). GE Chairs should meet annually (possibly via virtual meetings), to share this information. Outcome of meeting should be a report to IODE Officers Meeting, for discussion and acceptance.

- In addition the following structure and reporting lines for IODE Groups of Experts were agreed upon:
Figure 1: Structure and Reporting Lines for IODE Groups of Experts

(iv) Steering groups

- The new GE structure would be flexible enough to establish steering groups based on specific projects. Access to the larger pool of experts (see (i) above) would greatly assist with this process.

The proposal was submitted to IODE-XIX for adoption. The Chair GE-MIM introduced the above-mentioned proposal. IODE-XIX reviewed the proposal and adopted Recommendation IODE-XIX.2 (STRATEGY AND STRUCTURE OF IODE GROUPS OF EXPERTS) which reads as follows:

“The IOC Committee on International Oceanographic Data and Information Exchange,

Recalling the outcome of the IODE Review and its call to IODE Officers to closely monitor and guide the IODE Groups of Experts,

Recalling further Resolution IODE-XVIII.3 in which it had instructed the Chairs of the IODE Groups of Experts to jointly develop a strategy for the future of the Groups of Experts and to submit this strategy to the IODE Officers and to IODE-XIX,

Noting the report of the Chairs of the IODE Groups of Experts (Document IOC/IODE-XIX/19),

Taking into account the IOC Rules of Procedure, specifically Rules 24 and 25,

Recommends that the Terms of Reference of the IODE Groups of Experts be revised as follows:
(i) **Objectives:**

i. IODE Groups of Experts will undertake detailed scientific and technical studies and/or co-ordination tasks, by subject or region, as identified by the IODE Committee;

ii. IODE Groups of Experts, including the JCOMM/IODE ETDMP, will monitor scientific and technical developments, and identify needs to be addressed by IODE, as pertaining to their IODE subject area and propose a work programme with clear priorities, for consideration by the IODE Committee;

iii. To facilitate implementation of the Groups of Experts work programme, the Groups of Experts will (i) seek cooperation from IODE national coordinators; (ii) develop and implement projects with clear objectives and deliverables, and take responsibility for the coordination and management of such projects.

(ii) **Membership:**

a. the total number of Members of IODE Groups of Experts should not exceed 8;

b. the Groups should be composed of not more than 4 long-term members; and not more than 4 short-term members;

c. The long-term members will be selected by the Executive Secretary, based upon nominations from Member States and further based upon individual expertise as relevant to the concerned IODE Group of Expert. Long-term members can remain a member of the Group during not more than 4 inter-sessional periods;

d. The short-term members shall be selected by the long-term members of the Group, based upon their specific expertise, documented in the OceanExpert system, related to specific tasks or projects and will remain a member during, preferably, not more than two inter-sessional periods;

*Encourages* IOC Member States to nominate experts with expertise relevant to the subject areas of the IODE groups of Experts;

*Invites* IOC Member States to submit information on relevant national experts to OceanExpert, as a further source of expertise for the Groups of Experts;

*Urges* IOC Member States to support the work of the IODE Groups of Experts by financially supporting the participation of their national experts in Sessions of the IODE Groups of Experts.”

The Role of IODE National Coordinators for Marine Information Management (MIM NCs) has now been posted on IODE website ([http://www.iode.org/index.php?option=com_oe&task=viewGroupRecord&groupId=60&Itemid=43](http://www.iode.org/index.php?option=com_oe&task=viewGroupRecord&groupId=60&Itemid=43))

The Role of IODE National Coordinators for Marine Information Management (MIM) was defined (in 2006) as follows:

(i) Act as a point of contact for marine librarians and marine information managers in their country, in order to liaise with the IODE community (via the GE-MIM) on matters of importance to MIM;
(ii) Act as a communicator of IOC activities and initiatives to the national MIM community and beyond;

(iii) Provide assistance and support to the GE-MIM on project activities at the national or international level;

(iv) Establish a national network of marine libraries/marine information centres for their country or participate in existing related networks;

(v) Highlight and identify issues and participate in discussions of national importance relating to MIM with the GE-MIM and the national MIM community (such as capacity building and professional standards, technological innovations and policy, communications and collaboration, national and international MIM resources);

(vi) Provide regular national reports (format/style to be further considered) to the GE-MIM on MIM activities and issues;

(vii) Liaise, where possible, with the IODE National Coordinator for Data Management on matters relevant to both marine data and information management.

The Group recommended the following modifications to the text:

3. Provide assistance and support to the GE-MIM on IODE programme activities at the national or international level;

4. Establish a national working group that will create a national network of marine related libraries/marine information centres for their country or participate in existing related networks;

6. Provide reports to the IODE Committee (or IODE Officers), highlighting needs and issues that should be addressed by GE-MIM, for consideration by the IODE Committee or IODE Officers. The Committee or IODE Officers can then instruct the GE-MIM to deal with these needs and issues;

8. Participate in Sessions of the IODE Committee

The Group recommended the following criteria with which IODE NCs for MIM should comply:

1. Responsible for a major marine library and information service

2. Should have a senior position in a marine related library or information centre

3. Should have librarian qualification or equivalent experience in a library

4. Interested in new developments in library and information science

5. Should be allowed by their parent institution to attribute time to the fulfilment of the role of IODE NC for MIM

6. Should be provided with necessary financial support to enable participation in Sessions of the IODE Committee

The Group then combined the revisions of the Role and Criteria.

The Group adopted Recommendation MIM-IX.1 (Terms of Reference of IODE National Coordinators for Marine Information Management).
The Group instructed the Chair to submit this Recommendation for adoption to the next Session of the IODE Officers (November 2007), bearing in mind that the implementation of the Recommendation has no financial implications for IOC.

The Group further instructed the Secretariat to post the revised role of IODE National Coordinators for Marine Information Management and selection criteria on the IODE website, provided adoption by the IODE Officers.

The Group recommended that, if these criteria would be included in a Circular Letter, then also include the name and contact of the Chair GE-MIM as a source of further information. A link to OceanExpert could also be included as well as to the ODIN National Coordinator, as relevant.

The Group decided that at this time there was no need to declare National Oceanographic Information Centre as parallels with the NODCs.

The Group noted that we also need to demonstrate benefits to national coordinators.

The Group identified the following list of benefits associated with NCs for MIM (benefiting the individual as well as the institution):

1. National and international recognition for personal and institutional expertise
2. International exposure to new development in library and information sciences
3. Expansion of professional network
4. Impact on IODE work plan (and its marine information management elements) through participation in IODE Committee meetings
5. Opportunity for IODE project management in marine information
6. Access to, and membership of IODE ODINs
7. Training opportunities and continuous professional development
8. Partnership with data managers
9. Enhanced resource accessibility (access to other library collections)
10. Support in development of institutional and national information systems (e-repositories, expert directories, library databases,)

The Group instructed the Secretariat to include the role, selection criteria and benefits to the IODE website.

The Group requested to send a new Circular Letter including the revised Role, Criteria and Benefits.

IODE-XIX Agenda Item 6.1.2 – Report of GE-MIM

Reference is made to the Report on activities of the IODE Group of Experts on Marine information Management (Document IOC/IODE-XIX/21).

Ms Davies reported that she had presented a paper on MIM activities during the past 2 years, and put forward a proposal for future projects. IODE-XIX had noted the strong growth in the number of MIM NCs. IODE-XIX had asked GE-MIM to focus on issues such as climate change or IPY and to develop specialized bibliographies. IODE requested IODE Officers investigate options for translation of training materials into non-English languages.
IODE-XIX Action Sheet


**Action 15:**

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<tr>
<td>15</td>
<td>121</td>
<td>The Committee, being informed about activities of several marine libraries in linking cruise metadata, data and research publications, called on the project to consider including “information linking” in future phases of the project by using the expertise available in marine libraries.</td>
<td>CSR linked to relevant publications that were a result of research cruises</td>
<td>Improved access to information (publications) resulting from research cruises</td>
<td>Project leaders, GE-MIM</td>
<td>March 2009</td>
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**The Group noted** that such a service has been developed at the NOAA Central Library, VLIZ (through IMIS), BODC-NOL as well as WDC-MARE. Some link to catalogues, others to e-repositories.

The Group was informed that in OceanDocs a link could be included to a metadata record of a data set. However a new field may need to be created. It was further observed that this should be further developed within the framework of the OceanDataPortal project.

**Action 19:**

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<tr>
<td>19</td>
<td>159</td>
<td>The Committee adopted Recommendation IODE-XIX.2 (Strategy and Structure of IODE Groups of Experts): Encourages IOC Member States to nominate experts with expertise relevant to the subject areas of the IODE groups of Experts; Invites IOC Member States to submit information on relevant national experts to OceanExpert, as a further source of expertise for the Groups of Experts; Urges IOC Member States to support the work of the IODE Groups of Experts by</td>
<td>Experts nominated Information submitted to OceanExpert GE-MIM members supported</td>
<td>GE-MIM populated with relevant experts Improved access to information on national MIM expertise through OceanExpert Regular meetings of GE-MIM</td>
<td>Member States Member States</td>
<td>January 2008 September 2007</td>
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financially supporting the participation of their national experts in Sessions of the IODE Groups of Experts. financially for participation in GE-MIM sessions resulting in more effective implementation of GE-MIM work plan

This topic is discussed in more detail under Agenda Item 6.1

**Action 31:**

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<tr>
<td>31</td>
<td>291</td>
<td><strong>The Committee welcomed</strong> the success of the marine information management activities but <strong>called</strong> on the marine information experts to focus also on issues such as climate change or programme such as IPY, suggesting, the development of specialized bibliographies or even the establishment of subject specific ODINs. In this regard <strong>the Committee welcomed</strong> such initiatives of some marine libraries (e.g. USA NOAA) and called for wide publicizing.</td>
<td>Specialized bibliographies prepared; specialized ODINs</td>
<td>Improved dissemination of research publications related to issues such as IPY, climate change,…</td>
<td>IODE National coordinators for marine information management; GE-MIM; IODE Officers</td>
<td>2007-2009</td>
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P. Simpson referred to “mashup” services that aggregate and visualizes multiple sources of information.

**The Group decided** to start a pilot project on “mashup” service. The Group invited Ms Simpson to prepare a short document on the “mashup” concept and its requirements leading to a pilot project. The tsunami 2004 could be a topic to focus on. (this needs further discussion with the IOC tsunami programme and ITIC).

Ms Beattie mentioned that 2008 is the International Year of the Reef. This may also be an opportunity and potential focus.

**Action 33:**

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<tr>
<td>33</td>
<td>309</td>
<td><strong>The Committee strongly supported</strong> the continued participation of IOC in the ASFA Advisory Board, and its activities.</td>
<td>Participation of IODE in ASFA Advisory Board Sessions</td>
<td>Improved access to ASFA by Member States, with special attention to</td>
<td>Secretariat</td>
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This item is covered under Agenda Item 4.3.

**Action 44:**

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<tr>
<td>44</td>
<td>369</td>
<td>The Committee invited cooperation between the International Polar Year (IPY) and OceanExpert for management of experts information. The Committee requested Mr Taco De Bruin to pass on this question to the IPY Programme Office</td>
<td>Information on IPY related experts included in OceanExpert</td>
<td>Improved access to information on expertise related to IPY</td>
<td>IPY programme office; IOC Project office for IODE</td>
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The Group regretted that there had been no response from the IPY Secretariat and therefore closed this item.

**Action 46:**

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<tr>
<td>46</td>
<td>372</td>
<td>The Committee invited member states to actively promote OceanExpert at the national and regional level</td>
<td>Additional OceanExpert submissions; maintenance of national/regional inputs by countries/regions</td>
<td>Improved access to information on marine and freshwater professionals expertise</td>
<td>Member States</td>
<td>2007-2009</td>
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This topic is covered under Agenda Item 6.1

**Action 47:**

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<td>47</td>
<td>381, 382</td>
<td>The Committee noted the close collaboration that has been established between IOC and IAMSLIC and requested the secretariat to work closely with the IAMSLIC working group [related to e-repositories] that has been set up to explore avenues for further collaboration. The Committee stressed the importance of ensuring that</td>
<td>Global e-repository of research publications established</td>
<td>Improved access to publications, with special attention to materials published in developing countries</td>
<td>Secretariat/ IAMSLIC/ Chair GE-MIM</td>
<td>2007-2009</td>
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OceanDocs and the Aquatic Commons complement each other to ensure that resources are utilised optimally

This topic is covered under Agenda Item 6.2

**Action 48:**

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This topic is covered under Agenda Item 6.2

**Action 63:**

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<tr>
<td>63</td>
<td>464, 466</td>
<td>The Committee welcomed the proposal to establish the ODINWESTPAC Pilot Project and endorsed it. The Committee decided to allocate funds in the 2007 and 2008-2009 work plan and budget</td>
<td>Work plan available in Document IOD/ODE-XIX/39</td>
<td>Development and dissemination of data and information products to assist in the sustainable management of marine and coastal areas in the Western Pacific region, with a strong focus on capacity building.</td>
<td>ODINWESTPAC cooperating member states/ cooperating partner organizations</td>
<td>2007-2009</td>
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The Group noted that there is currently no involvement of MIM experts in the ODINWESTPAC pilot project.
**Action 67:**

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<tr>
<td>67</td>
<td>481</td>
<td>The Committee instructed GE-MIM to continue its efforts to assist Pacific Islands region to develop a proposal for a region-based ODIN which builds on existing networks (e.g. PIMRIS, PEIN). In this regard, the GE-MIM Chair should approach relevant agencies such as SOPAC, PIMRIS and SPC to form a working group to jointly develop proposal. GE-MIM should also investigate the possible opportunities for the ODIN to be associated with the Pacific Islands Regional Ocean Framework for Integrated Strategic Action (PIROF-ISA).</td>
<td>ODIN for Pacific Islands proposal prepared</td>
<td>Development of national capacity for the development and dissemination of information products</td>
<td>GE-MIM</td>
<td>March 2008 (IODE Officers Meeting)</td>
</tr>
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The ODIN for Pacific islands is now covered in ODINWESTPAC – further discussions under Agenda Item 6.1.

### 4. COMMUNICATIONS

#### 4.1 COMMUNICATION STRATEGY FOR GE-MIM AND MIM NATIONAL COORDINATORS

##### 4.1.1 WELCOMING NEW IODE NATIONAL COORDINATORS FOR MARINE INFORMATION MANAGEMENT

The Group recalled that there are now over 30 MIM NCs. The IODE Review highlighted a lack of understanding of MIM by the wider IODE data management community. The review identified the need to develop mechanisms to improve communication between IODE Officers and GE-MIM.

IODE recently established the position of IODE National Coordinator for Marine Information Management (MIM NC). This addition to the IODE structure required a clarification of the role of the MIM NCs, their relationship with GE-MIM and mechanisms for communication and reporting to the IODE Committee, and for liaising and collaborating with other MIM NCs.

The IODE Review highlighted the need for the IODE to collaborate with other relevant agencies in marine information management.
The role, benefits, and criteria for NCs were already discussed under Agenda Item 3.2.

The Group noted the importance of informing the new IODE NCs about the need to provide full information in OceanExpert.

The Group requested the Secretariat to investigate whether registration emails of new MIM NCs are cc-ed to GE-MIM Chair and to GE-MIM members.

The Group decided that, if the above-mentioned technical modification of OceanExpert were possible then the following actions would be undertaken when a new MIM MC registers:

(i) The Chair will contact the person and welcome them, and provide them with: Links to documents, NC coordinator page, role/benefits, to GE-MIM web pages, and MIM ODIN coordinator details;

(ii) The Secretariat will send a pack of posters;

(iii) The Chair GE-MIM will inform all NCs and GE-MIM members through IODE web site mailing system (*);

(iv) The Chair GE-MIM will include the name of another national expert who can be contacted for further guidance;

(v) The new NC will be invited (added) to the MIM groupware site (see below).

(*) It is now possible to send messages to groups (like MIM NC) through the IODE web site (no attachments currently)

4.1.2 Promotional materials

The Group stressed the need to develop promotional materials for IODE and MIM. In this regard the Group requested the Secretariat to investigate the possibility of pens, flags, mugs, USB sticks, mouse pads. These materials could then be mailed to the new MIM NCs together with the posters.

The Group requested the Secretariat to investigate the possibility of a formal document that officializes the nomination of the NC MIM, possibly a certificate.

4.1.3 Regular coordination

The Group recognized the need for an electronic forum to facilitate communication and coordination between IODE MIM NCs.

The Group requested the secretariat to set up an “IODE marine information management knowledge sharing” groupware site using the current iode.grouphub.com service.

4.1.4 Regular Reporting by IODE National Coordinators for MIM

Reference was made to the questions formulated by the Chair and sent to IAMSLIC listserv,
IOC/IODE-MIM-IX/3

IODE MIM NCs, PIRG on 29/8/07. Unfortunately there were only 15 responses (probably due to the limited time available for responding).

The Group commended the Chair for this initiative and noted that it provided valuable information.

In order to receive regular feedback from the MIM community, which would serve to guide the work of the GE-MIM the Group, recommended sending out such a survey annually. The Group further invited IAMSLIC to cooperate in this undertaking.

The Group requested the Chair to prepare a short paper on the GE-MIM Communications Strategy by the end of October 2007. The Group requested the Secretariat to publish this document as a formal IOC document in the IOC/INF series.

4.2 IODE WEB SITE AND MIM

Overview page IODE National Coordinators

![Figure 3: Overview page of IODE National Coordinators](image)

The Group noted that no changes were required here.

IODE National Coordinators for Marine Information Management page ([http://www.iode.org/index.php?option=com_oe&task=viewGroupRecord&groupId=60&Itemid=43](http://www.iode.org/index.php?option=com_oe&task=viewGroupRecord&groupId=60&Itemid=43))

Top part
The Group instructed the Secretariat to make the necessary revisions:

(i) Item 3 should link to the GE-MIM page

(ii) Replace the Role listing by:

   a. Find out more information about:
   b. The Role of the MIM NC
   c. The benefits of being a MIM NC
   d. The criteria for identifying MIM NC

(iii) For each of the above (a) to (d) new pages should be created

Lower (list) part

The Group requested that in the display page of the IODE NCs for MIM list (See Figure 5) there should also be a link to the library of that NC. The Group noted that the list display currently only provides telephone and fax numbers. A URL is only provided in the details page.

The Group instructed the Secretariat to inform the MIM NCs that they should add their library web site and not general institutional web site.
General Section / About Marine Information Management

(http://www.iode.org/index.php?option=com_content&task=view&id=4&Itemid=35)

Activities part

Figure 6: About MIM – activities part

The Group instructed the Secretariat to make the following revisions: Replace the listing of products by:

(i) Global activities: list the MIM activities and link to the specific activities page (OceanPortal, OceanExpert, OceanDocs, ASFA, …). Identify the activities that were pioneered by GE-MIM.

(ii) Regional activities: list the MIM activities and link to the regional activities link. Identify the activities that were pioneered by GE-MIM.

(iii) Add header “Finding Information” and link from there to the subcategory “Finding Information”

IODE homepage: General Information – main options

The Group instructed the Secretariat to make the following revisions:

Under Info Management

(i) Create sub-heading “Finding Information”
   a. Create page that contain links to relevant OceanPortal records

(ii) Create sub-heading “Learn more…”
   a. Create page that contains links to OceanTeacher courses

The Group further recommended using more images in the MIM related pages.

The Group also recommended to design a “branding image” with the theme elements: library, information technology, digital, networking, oceans. The graphic element then needs
to be included in pages of activities or products developed/maintained by IODE MIM/GE-MIM.

4.3 BUILDING LINKS WITH OTHER IM PROGRAMMES

4.3.1 IAMSLIC

The Group recalled that in the past there had been strong relationship between IOC/IODE and IAMSLIC. Since 1992 IAMSLIC membership of most African institutions have been sponsored by IOC/IODE (during the past years this was done through ODINAFRICA). The long collaboration between IAMSLIC and IOC/IODE in Africa is continued and will now also include the development of joint ODINAFRICA/AFRIAMSLIC information products and services (web sites, list serv,…). Most ODINAFRICA partner institutions are also members of IAMSLIC. Similarly in Latin America, the same experts work in ODINCARSA and IAMSLIC-Latino. It is therefore a misunderstanding to assume IODE and IAMSLIC work separately.

The Group concluded that the activities of IOC/IODE’S ODIN and IAMSLIC’s regional groups are complementary: IAMSLIC focuses on sharing papers, database systems, ILL, peer-to-peer, contacts with other librarians; ODINs are mainly infrastructure building and capacity development projects with a strong outcome focused approach, promoting the development of national and regional data and information products. Benefits from IAMSLIC membership and ODIN participation are complementary.

The Group recalled that an MOU was established between IOC and IAMSLIC in 2005 (2005-2007). However this agreement expired and has not yet been renewed.

The Chair referred to the survey (see 4.2) from which it was concluded that MIM experts called for renewal of the MOU. The Group noted that the previous MOU was quite formal but without much detail. So if a new MOU is established then it should be more active and productive.

The Group recommended that a new Memorandum of Understanding be established between IOC/IODE and IAMSLIC. The Group further recommended that the MOU should take into consideration:

(i) The need for efficient lines of communication between IOC/IODE and IAMSLIC;

(ii) The need for IOC/IODE and IAMSLIC to aim for complementary services and products, avoiding waste of efforts and resources due to competition;

(iii) The need for an IAMSLIC contact point for IAMSLIC-IOC/IODE cooperation;

The Group requested Linda Pikula, who will attend the 2007 IAMSLIC Conference, to make a brief presentation on the benefits of IODE (ODIN) and IAMSLIC and to highlight the potential benefit of a new MOU might achieve. The presentation should also outline IODE and IAMSLIC products.

The Group suggested investigating the possibility to develop a joint IAMSLIC/IODE harvester of e-repositories.

The Group further recommended that a GE-MIM member should participate in the 2008 (Fiji) IAMSLIC meeting.
4.3.2 ASFA

Ms Simpson introduced this Agenda Item. She recalled that in 2004, GE-MIM did not have sufficient infrastructure or developed products to offer ASFA a strategic partnership. In 2007 these are now in place; cooperation has started and further dialogue on joint benefits can commence. She identified the following areas for cooperation:

(i) ASFA and ASFISIS Export and Import

Both from the ODIN-MIM ASFA Input Centres and ASFA Board has come a request to enable one record input to populate ASFISIS software, Library catalogue systems and OceanDocs. FAO has indicated a willingness to review a proposal submitted by Dr Ribynski to write export and import routines for this purpose. For non ASFA Input Centres not using ASFISIS software, a script is being written for download from ASFA into OceanDocs, and it would be beneficial for a similar facility to be written for download of ASFA records to the new Integrated Library Management System to be chosen for ODINS.

(ii) Websites

Coverage in ASFA now includes websites and within the GE-MIM product suite is Ocean Portal. GE-MIM could offer to work with ASFA and contribute website information for the database.

(iii) Datasets

GE-MIM has for many years recommended that ASFA should include dataset citations, and ASFA have expressed an interest, and even through CSA conducted Focus Groups on the subject. With the new OceanDataGrid (OceanDataPortal) it would be possible to provide ASFA with dataset metadata in an automated way.

(iv) e-Repositories

OceanDocs is now building a collection of full text publications alongside Aquatic Commons. Both of these are harvested by Avano (http://www.ifremer.fr/avano). GE-MIM needs to work with IAMSLIC and IFREMER to build a better marine science harvester, which can offer rich metadata records. Records and links to full text from this secondary service could be offered to ASFA.

(v) Experts

Within ASFA metadata is only provided on author provenance. GE-MIM could offer to link full Ocean Expert records where available to the ASFA record. In return, GE-MIM could ask for a dynamic search on ASFA to be included under each OceanExpert record. This may be an additional promotional tool to gain more entries for OE.

(vi) ASFA Input

MIM National Coordinators could be proactive in recruiting new ASFA Input Centres in their regions, to increase ASFA coverage.

(vii) Digitization

Marine libraries hold significant collections of legacy literature (grey literature). Much of this should be recorded and available through ASFA. GE-MIM and ASFA should work together for funding to get these legacy collections digitized and in OceanDocs and therefore ASFA.
(viii) ASFA Access

Agree with ASFA that ODIN non ASFA Input Centres should also have free access.

(ix) ASFA Trust Fund

May be available for cooperative projects.

(x) Representation

IOC is a member of the ASFA Advisory Board. An ASFA Board representative (or ASFA Secretariat) should be a formal member of the GE-MIM.

The Group requested the Secretariat to provide the above information to the ASFA Secretariat as a basis for further discussion on cooperation.

The Group requested the IODE Secretariat to inquire with the ASFA Secretariat (FAO) whether IOC documents are still entered into ASFA and how.

4.3.3 OTHERS

The Group considered possibilities for cooperation with other organizations such as ICES, PICES, UNEP, UNESCO, WMO, UNDP; regional bodies (SPREP, SOPAC, CPPS, NEPAD, African Union,...), as well as donor organizations such as the Gates Foundation, EU Fisheries Directorate, EU Information Directorate, Soros Foundation. Collaboration could also be considered with experts from Librarian schools.

The Group decided that a Document should be prepared explaining about the IOC/IODE marine information management programme that should be sent to the above organizations seeking expressions of interest in cooperation. The Group further recommended that a Conference be organized at the IOC Project Office for IODE to discuss collaborative ventures.

4.4 LONG-TERM STRATEGIC PLAN

It was recalled that a Document was prepared during IODE-XIX by a small group of MIM experts, and then passed on to Lesley Rickards, main author of the IOC Strategic Plan for Data and Information Management. Some elements were taken into account when drafting the document as submitted to the 2007 IOC Assembly but many elements were not.

The Group stressed the importance of a MIM strategic plan as a guiding tool for the development of work plans for the medium and long-term. The strategic plan should include a clear vision as well as mission statement: what do we do, for whom do we do it.

The current draft document includes an introductory section; we have some goals, guiding principles, strategies and list of programme activities.

The Group decided to continue the drafting of the strategic plan by email, taking into consideration the IOC Strategic Plan for D&IM as well as the Report of the IODE review commissioned by UNESCO as well as the feedback from the MIM community on issues of concern and future directions for MIM.
**The Group recommended** that the resulting document (after consultation with above mentioned organizations and partners as well as NCs for MIM) would be published as an IOC Document.

**The Group stressed** that the Strategic Plan (for 5 years) should not be an implementation plan.

5. **CAPACITY BUILDING**

5.1 **ODINs**

5.1.1 **ODINCARSA**

Ms Munoz explained that in the Latin America and Caribbean region considerable progress had been in recent years thanks to ODINCARSA, IAMSLIC and ASFA. A first achievement was the identification of marine information managers and their networking. Secondly, through ODINCARSA, progress was made in training. Thirdly, through ODINCARSA, the region started the development of e-repositories, collaborating in the OceanDocs project. In this regard Ms Munoz reported that collections had been, or will soon be, developed for Argentina, Chile, Colombia, Cuba, Ecuador, Trinidad & Tobago and Uruguay. She further explained that ODINCARSA now has two sub-components: ODINCARSA Latino and ODINCARSA Caribbean. This was decided to respond to the differences in capacity, needs and language between the two sub-regions. She added that at this time, only the ODINCARSA Latino is actively involved in the MIM activities.

In terms of activities during the past inter-sessional period Ms Munoz mentioned the Second ODINCARSA MIM training course on marine information management, held at the IOC Project Office for IODE between 9 and 19 November 2005. The Training Course was attended by 12 participants from 9 countries including Argentina, Chile, Colombia, Cuba, Ecuador, Mexico, Trinidad & Tobago, Uruguay and Venezuela. Between 23 and 28 April 2007 an inter-regional training course on the development of e-repositories was held at the IOC Project Office for IODE. This event was attended by participants from different ODINs including three from the ODINCARSA region (Argentina, Chile, Mexico) and this led to the development of the ODINCARSA OceanDocs collection. In addition, between 20 and 24 August 2007 a regional training course in the use and management of e-repositories was organized in Guayaquil, Ecuador. It is expected that additional countries will now start collaboration in OceanDocs.

In view of the success of the past training courses Ms Munoz suggested the following activities in the region in 2007 and 2008:

- November 2007, Montevideo, Uruguay: Training Course the in use and management of the e-repository OceanDocs Latin America. (participation of librarians of Argentina, Uruguay, Brazil. (Chile?).. We need financing support of approx. US$ 5000;

- March or April 2008, Valparaiso, Chile: A training Course Oceandocs Methodology, Input, Open Access, Repositories. With support IODE/ODINCARSA and CPPS. (participation of librarians of Colombia, Ecuador, Peru and Chile. etc.. Financial support is required.
Ms Munoz noted that there were some occasional problems with the OceanDocs server (based at the IOC Project Office for IODE, Oostende, Belgium) and requested that these should be corrected as soon as possible.

Ms Munoz concluded by summarizing the needs of the region concerning marine information management for the period 2007-2008 as follows:

- To organize a training course in order to ensure an overall similar level of technical expertise of the information professionals involved in the Project (information technologies and management);
- To create a programme to support a Digitization Project (Retrospective Digitization of documentation) to improve access and ensure long-term preservation and archival;
- To evaluate and select an Integrated Library Management System (ILMS) software application (open source) for libraries in the ODINCARSA region;
- To provide support for meetings (national and regional) to promote professional networking.

It was noted that the main “drivers” of the MIM component of ODINCARSA are Chile and Ecuador. **The Group stressed the need to mobilize all countries in the region and requested the ODINCARSA MIM coordinator to take the necessary action to promote MIM in the region.**

**The Group expressed its appreciation** to Mr Rodney Martinez whose management of ODINARSA was well balanced between data management and information management, and **urged** him to continue his excellent work.

### 5.1.2 ODINAFRICA

Ms Keita informed the Group that the current phase in the development of National Oceanographic Data and Information Centers established within the framework of ODINAFRICA-III (2005-2008) focuses on using the facilities and expertise that had been developed in the previous phases (I, II) to generate products and services for effective management of the coastal and marine areas in Africa. To meet these goals, the Marine Information Management component (Work package 3B), developed several activities:

(i) Provision of Equipment and software to newly established Information Centers (Angola. Egypt and Namibia);

(ii) Organization of Marine Information management training courses for new countries and new information managers;

(iii) Development of new, and updating of existing, information Products and services (library Database such as AFRILIB [http://193.191.134.12/afrilib/], Directories such as AFRIDIR regional component of OceanExpert.[http://www.oceanexpert.net];

(iv) Development of OdinPubAfrica, the precursor to OceanDocs; [http://www.oceandocs.net]

(v) Improving Access to Marine Electronic Resources, through sponsoring the membership of IAMSLIC, thereby providing access to an informal interlibrary
loan mechanism; through the development of an African Union List of Journals in cooperation with IAMSLIC; through the establishment of an ODINAFRICA MIM mailing list (http://193.191.134.9/odinafrica3/management/mailing_lists.html); through the development of the ODINAFRICA web site (http://www.odinafrica.org); through cooperation with ASFA as input centres;

(vi) Establishment and reinforcement of Collaboration with others Aquatic related organizations with marine information services.

Ms Keita further referred to the development of the African OceanPortal which aims to collate and disseminate information on ocean and coastal related information to a wide and non-specialized audience. (http://www.africanoceans.net).

Ms Keita summarize the planned activities of ODINAFRICA-III for the remaining months (the project will formally end in September 2008) as follows:

(i) Finalise the catalogue of library holdings of All institution in INMAGIC and submit for quality control and inclusion in AFRILIB;

(ii) Maintain and update a directory of marine and freshwater professionals in all the institutions in the country and inclusion to Ocean Expert;

(iii) Develop and maintain a directory of all marine related institutions in the country (including a detailed profile of each institution);

(iv) Develop or update at the country’s component of OceanDocs-Africa (formerly OdinPubAfrica), the repository of marine related publications from Africa available at: http://iodeweb1.viliz.be/odin/handle/1834/1337;

(v) Develop or update a serials database for all libraries for inclusion in Africa Union List of marine and Aquatic serials available at: http://library.csumb.edu/iamslic/africa/unionlist/

(vi) Develop a webpage for each library within the established NODC national websites (www.nodc-countryname.org) through which the information products and services can be accessed;

(vii) Publish a regular newsletter which provides information on marine data and information management activities in each country;

(viii) Update AFRILIB and assessment of AFRILIB’s use.

Ms Keita informed the Group that the final ODINAFRICA-III seminar will be held in 2008. During this event discussions will be held to prepare for ODINAFRICA-IV.

Ms Keita ended her introduction by calling for the GE-MIM to focus its efforts regarding capacity development on on digital libraries, building of library web sites, and development of communication capacity.

The Group expressed its appreciation for the considerable achievements made by the 25 countries participating in ODINAFRICA-III and expressed its gratitude to the Government of Flanders (Kingdom of Belgium) for the generous support provided to the ODINAFRICA project through IOC. The Group invited the Government of Flanders and IODE to continue its strong support to Africa through a possible fourth phase of ODINAFRICA.
5.1.3 ODINCINDIO

The Group was informed that a training course on marine information management had been organized at the IOC Project Office for IODE between 13 and 24 February 2006. It was attended by 10 participants from the region including Bangladesh, India, Indonesia, Islamic Republic of Iran, Kuwait, Malaysia, Maldives, Oman, Saudi Arabia and Thailand. However little or communication had been observed between the participants after the course. It was noted that the same problem applied to the data group.

The Group was informed that ASFA had a similar programme in this region.

Mr Pissierssens expressed concern about the lack of progress with the promotion of networking in the region and explained that an attempt would be organize a meeting of the heads of main institutions in the region to discuss the future of ODINCINDIO.

The Group expressed its concern about the lack of progress of ODINCINDIO and called on the IOC Member States in that region to appreciate the need for access to, and management of, marine information, as an essential tool for marine and coastal environmental research and management.

The Group recommended to identify resources to promote the importance of regional MIM networking and to provide capacity development assistance.

5.1.4 ODINECET

The Group was informed that two MIM training courses had been organized benefiting this region, as well as two meetings:

- ECET Union List of Serials Project Meeting and IODE/EURASLIC workshop on the European Countries in Economic Transition ODIN initiative (27-28 October 2005, IOC Project Office for IODE);
- First ODINECET training course in marine information management (13-24 March 2006, IOC Project Office for IODE);
- ODINECET kickoff meeting (25 March 2006, IOC Project Office for IODE)

A third training course will be organized in November 2007 at the IOC Project Office for IODE. The project currently involves marine librarians in Bulgaria, Croatia, Estonia, Latvia, Poland, Russian Federation and Ukraine. An ODINECET e-repository will be based in Ukraine. The ODINECET coordinator is currently Olga Akimova, after Maria Kalenchits left for PIMRIS (Fiji).

The Group welcomed the excellent progress of the ODINECET project and the enthusiasm of the national coordinators. The Group noted with appreciation the work plan detailed in Document IOC/IODE-XIX/38 add. that had been adopted by IODE-XIX.

The Group recommended to identify resources to assist institutions with basic computer infrastructure, software and training.
5.1.5 ODINWESTPAC

The Group noted that the MIM community in the WESTPAC region has not yet been involved in the ODINWESTPAC pilot project. It was noted that China is an active member of ASFA. Mr Yang Ying, who is responsible for ASFA input is also the IODE national coordinator for MIM.

The Group recommended to request Mr Yang Ying to provide advice on the needs of the region and the way forward.

Ms Davies informed the Group that the Southern Pacific sub-region (see Doc IOC/IODE-XIX/41) is a group of small islands with small populations and limited resources. Because of this we may need to focus more on direct needs rather on generic ODIN MIM work plans. It was noted that not all countries in this sub-region are IOC Member States.

Ms Davies informed the Group that PIMRIS is active in this region. Ms Davies asked the Group where it is necessary for IOC/IODE MIM to develop a parallel network or should we rather work with PIMRIS and support it? She reported that countries in the region had expressed the opinion that they want collaboration/support rather than a new network. PIMRIS lacks funding to organize training. There is a need for (i) an e-repository; (ii) for organized management of unpublished (grey) material; (iii) for infrastructure; and (iv) for promotion of MIM (to the institutional management level).

It was noted that PIMRIS is a formal cooperative network of libraries and information centres within regional organizations and government agencies concerned with the development of fisheries and marine resources in the Pacific. Its aim is to improve access to information on marine resources in the region by:

(i) collecting, cataloguing and preserving relevant documents in print and electronic formats, especially "grey literature" (ephemeral, unpublished material);

(ii) disseminating information via new products (reports, newsletters, posters, bibliographies, websites & databases) and services (literature searches, inter-library loans, question and answer services);

(iii) supporting the development of regional libraries and information centres through training and technical assistance; and

(iv) cooperating with similar networks and institutions throughout the world, including the International Association of Marine Science Libraries & Information Centres (IAMSLIC), FAO and IOC.

PIMRIS participants include ministerial or departmental libraries in most Pacific nations, as well as regional agencies based in Apia, Samoa (SPREP), Honiara in the Solomon Islands (FFA), Noumea, New Caledonia (SPC) and Suva, Fiji (SOPAC). Representatives meet bi-annually at Steering Committee meetings to review progress, policies and objectives. Activities are overseen by the PIMRIS Coordination Unit, which is based at the School of Marine Studies of the University of the South Pacific within the Lower Campus Library, a branch of the USP Library. Further information is available from agency contacts.

The Group recommended that ODIN activities in this region be implemented in close collaboration with PIMRIS, through the PIMRIS Coordination Unit (the formalities need to be further investigated). This would also allow the continuation of the PIMRIS brand.

It was noted further that the IOC Project Office for IODE could organize relevant training courses in Oostende, within the Project Office work plan. It was recognized that bringing
participants to Oostende is not the most ideal situation but on the other hand the project office does have all facilities to ensure the most efficient and effective training event, building on its experience for other regions.

The Group was informed that Ms Suzie Davies has been invited to a Pacific Regional Group (PIRG) of IAMSLIC meeting in November in Fiji. The Group requested Ms Davies to inform that meeting on what IODE is able to do.

The Group requested the Chair, together with the IODE Secretariat, to discuss possible cooperation between IODE and PIMRIS, through an ODIN type project by email and during the November meeting. Based upon these discussions further actions can be planned for 2008.

The Group stressed the importance to assess the capacity needs of this region. It may be more important initially for the countries to acquire the knowledge to efficiently seek information rather than to manage (limited) local information. It was mentioned that there may be a lack of professional librarians and training activities would need to bear this in mind. It should also be taken into consideration that staff turnover is quite high. The potential of train-the-trainer and distance education (through OceanTeacher) should be investigated.

The Group recommended that FAO be invited to participate in this undertaking from the start (PP: ask Richard Pepe who to contact).

The Group recommended that PIMRIS be requested to identify participants for the course, in close consultation with IOC (action addresses of relevant member states).

5.2 OCEANTEACHER: MIM CONTENT

Ms Pikula introduced this Agenda Item. She informed the Group that MIM content in OceanTeacher was coordinated by two main editors: Prof. Paul Nieuwenhuysen (Free University of Brussels) and Ms Linda Pikula (NOAA). She recalled that the migration for the static html version of OceanTeacher to KewlNextGen (developed by the University of the Western Cape, South Africa) had not gone as planned. The training course that had been organized at the IOC Project Office for IODE in January 2007 had to be stopped as the software had crashed and it had not been possible for the software engineer of UWC to fix the problem. The OceanTeacher Steering Group had therefore decided, at that time, to hire an external contractor to fix the problem and implement content migration. The Group also decided to phase out KewlNextGen and identify other solutions for the Digital Library and Courses components of OceanTeacher. The software repair and content migration (approx. 90%) was completed by April 2007. As from April 2007 new material was entered in the Digital Library system. Ms Pikula informed the Group that she had sourced a considerable amount of new materials that still needs to be added. However the current version of the digital library is rather slow and cumbersome to use.

Mr Pissierssens reported that the architecture of OceanTeacher had been revised to provide a better and more intuitive access to the system. Accordingly a new OceanTeacher Home Page was designed (Figure 6). The new Homepage provides an overview of the OceanTeacher system, describing the concept of the Digital Library and Courses modules. It also highlights the new partnership between IOC/IODE, WMO and JCOMM regarding OceanTeacher.
The new website also incorporates a “Video Library” where all video-recorded lectures are available (these can also be linked to from within the Courses). Most courses organized at the IOC Project Office for IODE are now recorded and made available in streaming video format through the web site. The courses can also be distributed on CD or DVD. The main objective of the videos is to promote the organization of local/national training by IODE course former students (alumni) and thus to amplify the impact of IODE courses.

In June-July 2007 it was decided to use Claroline (www.claroline.net) as the course management system. Claroline is an Open Source eLearning and eWorking platform allowing teachers to build effective online courses and to manage learning and collaborative activities on the web. Translated into 35 languages, Claroline has a large worldwide users’ and developers’ community. The system is now online through the URL http://www.oceanteacher.org/courses

Also for the digital library alternative software solution is being investigated. It is expected that a decision will be made early 2008. An important consideration in the choice will be the ability to easily migrate existing content to the new system. Major considerations will the ability to manage a very large volume of content items.

The Group was informed that the University Curriculum has not progressed as expected, due to the departure of Dr Vanden Berghe. An alternative arrangement will need to be made by the OceanTeacher Steering Group to complete this module.

Ms Pikula reported on a substantial number of training courses during which OT was used.

The Group was further informed that the current OceanTeacher project, funded by the Government of Flanders (2005-2007) would end formally in September 2008.
The Group thanked Ms Pikula for her extensive report and welcomed the progress of the project.

The Group reiterated the great importance of OceanTeacher as a referral and training system urging IODE to continue its development and maintenance. The Group further expressed its appreciation to the Government of Flanders (Kingdom of Belgium) for the considerable support provided to OceanTeacher, and invited the Government of Flanders to continue its support.

The Group, noting the end of the current project in 2008, instructed the OceanTeacher Steering Group to implement a review of the project, and to prepare a proposal for a next phase of the Project, for submission to donors in 2008.

The Group expressed its concerns about the technical difficulties with the Digital Library content management system and urged the SG-OT to find an alternative solution as soon as possible, bearing in mind the great interest in OT.

The Group urged MIM experts in all regions to actively participate in the OT projects by developing content for OT. The Group members expressed their intention to assist in this regard. The Group noted however that it would be necessary to provide clear information on where the gaps are and what material is suitable.

The Group requested Ms Pikula to prepare a short list of sections for which content is required (Digital Library and courses) (mainly section 11). This list should then be added to the heading “Information for content providers and lecturers” on the OceanTeacher homepage and should be updated regularly.

The Group requested to add a statement explaining that “OT is continuously being developed and should therefore not be seen as a final and completed product”.

The Group requested that the courses assessment information should also be used to regularly update the course content requirements.

The Group recommended that a survey be undertaken to assess issues and priorities of MIM national coordinators regarding MIM training requirements, taking into consideration the current content in OceanTeacher MIM.

5.3 MENTORING PROGRAMMES

Ms Janice Beattie introduced this Agenda Item. She stated that OceanTeacher is an important training tool, together with IODE MIM training courses, but recommended a more holistic approach to human resource development by providing also the possibility for “mentoring”, allowing for librarians from one country to visit and work at other libraries for short to longer periods of time (typically from one week to several months). She informed the Group that the NOAA Central Library in the USA had some experience in this regard. There could also be a combination of formal education and internship. Finding funding was an issue but maybe a collaborative arrangement with IAMSLIC could be considered and also within the existing ODIN projects (those that are donor funded) an allocation for mentoring could be included.

The Group recommended that some funds be set-aside in donor funded ODIN projects for mentoring (both within the region as well as outside). The Group further requested the Chair to send out a message to MIM NCs to inquire about their capability to host interns/mentoring candidates (or undertake buddy (virtual) arrangements). The message should also request MIM NCs to identify sources of funding for such arrangements. It was
noted that in a number of cases the parent institution of the intern might be able to fund the internship/mentoring.

The Group further recommended that such an undertaking be organized in cooperation and/or consultation with IAMSILC.

The Group requested Ms Beattie to develop this concept in more detail and share it with the Group by email [deadline: end of October 2007]

6. IODE/MIM PRODUCTS

6.1 GE-MIM INVOLVEMENT IN IODE PRODUCT DEVELOPMENT

6.1.1 OCEANEXPERT

This Agenda Item was introduced by Dr Wouter Rommens. Dr Rommens recalled the various requirements defined by GE-MIM-VIII: [get from GE-MIM-8 report]. He reported that most of the required features have been implemented since 2004. He demonstrated:

• A field “skills/expertise” has been added
• A field “Region of study” has been added, as well as ODIN regions
• A field “comment” has been added enabling the administrators to add comments on the expert (e.g. left institution)
• The option to post opportunities
• The option to list experts sorted by organizations
• The option to produce standard reports
• The option to search and report on publications

Dr Rommens informed the Group that OE can now be used as an alumni system providing information on all events in which an individual expert has participated. (http://www.iode.org/alumni)

The Group requested the following revisions of the OceanExpert system:

(i) Highlight the statement on “non profit use” that is now hidden in the more about OceanExpert.

(ii) The field “entered by whom” should be added to clearly distinguish records entered by the concerned individual, by the IOC Secretariat or by others.

(iii) Develop a Google-like box enabling searching for “John Doe”

(iv) Institution name field should be above the address

(v) Upcoming events should not be listed in homepage but simply a link

(vi) Highlight the page number you are on when looking at list of people

(vii) Sometimes address is displayed and sometimes it is not (same for printing)
(viii) Default region is always WESTPAC for UK: this needs to be corrected to it can be edited.

(ix) Criteria for inclusion of experts should be more clearly described (e.g. that we want fisheries, coastal zone, air-sea interaction, …)

(x) Language problem: suggest to add “working languages” so people can search for other experts working in the language

(xi) ODIN regions should have their own “sites” allowing searching only for that region (e.g. AFRIDIR).

(xii) Use different icon for people and institutions (looks like pacifier)

(xiii) Forced formats (e.g. for telephone) (brackets)

(xiv) Auto-complete for institutions

(xv) Links to institution homepages: there are dead links. Need function to check the URLs

(xvi) There is no back button when editing a record. This should be added!

(xvii) Statistics: add a link to see stats

(xviii) In order to increase the quality of entered records it was recommended to send validation requests for records of ODINs to the ODIN regional coordinator (MIM) rather than to Dr Rommens.

The Group requested Dr Rommens to investigate the possibility to link OceanExpert with OceanDocs (and Google Scholar?).

The Group stressed the need for OceanExpert to position itself as a reference tool for expert information, bearing in mind that other similar services are now being developed by commercial actors (e.g. publishers). Also services like “facebook” could be considered as competing products. This creation of similar products and services will soon lead to confusion which will be detrimental to OceanExpert. The Group therefore discussed the possibility to develop a valued-added service to OceanExpert. The Group concluded that the ability to create virtual communities (social networking) would be an excellent added value.

The Group recommended the development of a “groupware” functionality to OceanExpert enabling experts in OceanExpert to create groups which can then post messages, files, work plans with deadlines etc.

6.1.2 OCEANTEACHER
See Item 5.2

6.1.3 OCEANPORTAL

This Agenda Item was introduced by Dr Rommens. He recalled that the Group had already discussed this items at length under Agenda Item 3.1 (item 13). Dr Rommens added that once
a year all links are checked (with a tool and manual verification). On daily/weekly basis new suggestions are QC-ed and entered.

The Group re-iterated the value of OceanPortal as a first point of call to seek ocean related web sites. This value was clearly confirmed by the number of visits to the site that now average 10,000/month. Accordingly the Group requested that OceanPortal should be continued.

The Group identified a few issues that need attention and instructed the Secretariat to address these:

- Hot listings: needs to be better explained and renamed what the 1-10 lists are.
- In homepage what is the top 10.
- Need to be able to report a bad link (see also in agenda item 3.1)
- In editors pick there is option to vote. What is this?

The Group recommended that a more proactive promotion campaign be organized for OceanPortal, especially in Africa and Central/South America.

6.1.4 OTHER PRODUCTS

Integrated search tool

The Group, considering the wealth of products that have been developed by IODE, recommended the development of a Google-type search tool that can locate information across all products, i.e. Federated searching.

Publications

The Group recalled the publication of the IOC Manuals and Guides No. 30 (volumes 1, 2, 3) and concluded that these are now out of date (but should be available (as historical archive)).

The Group noted that a number of important papers were being produced for GE-MIM Committee Meetings which were not archived. It was suggested that these papers be given an Unesco INF number so that they could be cited (and found) later for IODE Committees and other requirements.

The Group, considering the need to promote, at the institutional management level, the importance of Marine Information Management, decided to prepare a short (5-10 pages) brochure/document entitled: “Towards e-Science: Why you need a marine library/information centre - Participating in the IODE Marine Information Management programme: benefits and requirements.”

The Group further decided that the content should include:

- Benefits of having marine information centre
- National coordinator MIM: criteria for selection, responsibilities
- Additional reading: Marine information centres: extracts from and reference to OceanTeacher (maybe include chapters that need to be addressed: include concise version)
• Benefits of becoming NC and benefit of becoming part of the IODE network of MIM centres?
• Information on IOC strategic plan for D&IM, GE-MIM, IODE products: OceanExpert, OceanPortal, OceanDocs, ODIN, ASFA, IAMSLIC,…

The publication will be prepared by Ms Linda Pikula (Chief Editor) and GE-MIM members by the end of 2007.

6.2 E-REPOSITORIES

This Agenda item was introduced by Mr Marc Goovaerts. He explained that OceanDocs had been developed out of ODINPUBAfrica. It is now a platform for the various ODINs. In terms of content type OceanDocs now focuses on publications. Most of the partners currently cannot upload multimedia materials due to bandwidth limitations. The repository is using the open source DSpace software (http://www.dspace.org). As the project developed, new requirements were taken on board through adaptation of the software. This has now resulted in a package that is well defined for the user group. It has the disadvantage that documents entered in the early phase do not comply with the latest metadata requirements (extended Dublin Core: it is now possible to export records in several formats: MODS, AGRIS,…). There was a request for statistics about the use of OceanDocs. We now added this functionality. From 15 August 2007 it is possible to see the downloads and views of the content. In addition we are working on new submission procedures: submit documents already described in ASFA or other database, ASFISIS, Web of Science through batch upload.

Mr Goovaerts further reported that export of record from OceanDocs to ASFISIS is now possible. A similar service for export to the popular tool EndNote (http://www.endnote.com) is also being investigated.

The Group noted that the Steering Group for OceanDocs seemed to have been closed down and instructed that it be re-established. The Group decided that the current membership of the OceanDocs groupware site would constitute the OceanDocs Steering Group as this group reflects the wide range of regions and expertise required. The steering group can be further expanded as new repositories are established in ODINs and gradually migrate into an OceanDocs user group. Additional experts could also be added as required. It was noted however that the 2 ODINAFRICA members (Josette Confait and Cheikh Ibrahima SAKHO) have left their institution either permanently or temporarily. They will need to be replaced as soon as possible as they were OceanDocs administrators for ODINAFRICA. In this regard the Group invited Ms Keita to discuss this matter at the ODINAFRICA PSC level as soon as possible.

The Group decided to add Ms Linda Pikula to the OceanDocs Steering Group.

The Group also recommended that the OceanDocs Steering Group takes responsibility for liaison with the Aquatic Commons Steering Group on behalf of the GE-MIM. (reference is made also to Agenda Item 4.3).

The Group also decided to prepare an OceanDocs policy statement on scope (environment regime, subjects,…), membership (right to enter content), commitments of the host IOC/IODE (secure archival), allowed/preferred content (types), language(s).
The Group recommended that a priority for the Steering Group should be to finish import/export utilities: import ASFA and ASFISIS; export: DC qualified, AGRIS AP and MODS.

The Group pointed out the need to have a clear joint statement between IAMSLIC and IOC on the terms of reference and demarcation of OceanDocs and Aquatic Commons. (The informal agreement is that if a country is part of an ODIN then they input in OceanDocs). **The Group decided** to prepare a written statement to IAMSLIC for further discussion.

The Group briefly discussed the potential need to develop a harvester for ocean related material, while acknowledging the existence of Avano. **The Group decided** not to discuss this matter in detail and **instructed** the Steering Group for OceanDocs to address this issue as soon as possible.

**The Group expressed its gratitude** to Josette Confait who has been instrumental in the development of both AFRILIB and ODINPubAfrica and **instructed** the Chair to send a letter to Ms Confait on behalf of GE-MIM.

**The Group recommended** to promote the development of e-repositories through the IODE National Coordinators for MIM. In this regard the available 1-page brochure could be distributed (it will need some redesign to give it a more global character as the current brochure focuses on Africa). **The Group requested** Mr Marc Goovaerts ways to involve members of the Steering Group in the continued technical development of OceanDocs.

### 6.3 Integrated Library Management System Software and Library Holding Databases

The Group considered that different institutions will require different solutions: some only require a cataloguing system, others also need acquisition and loan management functionality. In the case of ODINAfrica some partners did not use all functionality of the selected system (INMAGIC) but others did. The Group noted that support for INMAGIC was no longer assured as the product was no longer marketed. It would therefore be necessary to identify a new product (and to assure easy migration from INMAGIC databases to the new system) for ODINAfrica users.

The Group discussed whether IODE should recommend specific products or only define criteria and users can then select a suitable product based upon these criteria. **The Group decided** that ILMS selection criteria need to be defined. **The Group created** an inter-sessional working group to deal with this issue, composed of Marc Goovaerts, Pauline Simpson, Janice Beattie, Linda Pikula, Arame Keita, Murari Tapaswi and Patricia Muñoz. [deadline: end of October 2007]. The working group will be Chaired by Murari Tapaswi.

**The Group noted** the need to then consult with marine librarians in IOC Member States to find out about their requirements.

**The Group recommended** that migration from INMAGIC to a new solution should be foreseen in 2008.

The Group noted that it would be necessary to ensure compatibility with ASFISIS when identifying a new ILMS for the ODINs. In this regard a more standard approach to
import/export would be advisable. **The Group requested** the Chair to communicate with the ASFA Secretariat regarding the possible change of ODIN-standard ILMS.

7. MIM ACTION PLAN FOR THE NEXT INTERSESSIONAL PERIOD

The Group recalled the new terms of reference for the IODE Groups of Experts as defined in [Recommendation IODE-XIX.2](#) and developed its action plan within this new framework.

Bearing in mind the proposed short inter-sessional period between the ninth and tenth Session (see Agenda Item 9) the Group decided to focus on precise action items that will aim at improving the quality of the existing IODE information products, and promotion of the continued development of the ODINs. The action plan will also finalize a number of core documents (strategic as well as communicative and promotional) which will enable the GE-MIM and the IODE MIM programme to move into a more strategic approach to IODE MIM activities in the future. The action plan also takes into consideration the limited financial resources that can be obtained from the UNESCO regular programme.

**The Group adopted** Recommendation MIM-IX.2 (Annex II) which includes all actions that need to be taken during the inter-sessional period.

**The Group tasked** the Chair and the Secretariat to monitor the progress of implementation of the Action Plan in consultation with the Group members, and to report the proceedings of this Session and its Action Plan to the November 2007 Session of the IODE Officers. In particular the Group requested that the Officers consider Recommendation MIM-IX.1 (Terms of Reference of the IODE National Coordinators for Marine Information Management).

8. ELECTION OF THE GE-MIM CHAIRPERSON

Mr Pissiersens informed the Group that Ms Davies had now completed one term as Chair of the Group and, if the Group so desired, the Group could re-elect Ms Davies for a second term, in accordance with the IOC Rules of Procedure.

**The Group unanimously re-elected** Ms Suzie Davies as Chair of the Group.

9. DATES AND PLACE OF THE NEXT SESSION

Bearing in mind the long inter-sessional period between the eighth and ninth Session and the need to develop the strategic plan, as well as to align the ongoing MIM activities with the plan, the Group recommended that the Tenth Session of the Group be held in September 2008. This will then also allow the Group to submit the finalized Strategic Plan and related implementation plan to the twentieth Session of the IODE Committee, planned to be held in Beijing, China in April 2009. The Group further recommended that the Tenth Session be held at the IOC Project Office for IODE in Oostende, Belgium.
10. OTHER BUSINESS

Website archiving: Patricia Muñoz will circulate a document on website archiving to the members of the Group for further discussion during the inter-sessional period. The document may also be circulated to the NCs for MIM. [deadline November 07; Spanish and English]

11. ADOPTION OF THE SUMMARY REPORT

As decided at the beginning of the meeting, the Group adopted only the action plan in plenary and instructed the Secretariat to finalize the Summary Report and circulate it to the Group members for adoption by mail. Accordingly the summary report of the meeting was adopted by email prior to publication.

12. CLOSURE

The Chair thanked the Members of the Group for their active participation in this Session and for re-electing her as Chair.

The Chair also thanked the staff of the IOC Project Office for IODE, and particularly Ms Kristin de Lichtervelde, for the excellent arrangements. She also thanked the IOC and the Government of Flanders for providing the excellent conference facilities and for the hospitality offered to all participants.

The Chair closed the meeting on 20 September 2007 at 18h00.
ANNEX I

AGENDA

1 OPENING OF THE SESSION
2 ADMINISTRATIVE ARRANGEMENTS
3 REPORT ON INTERSESSIONAL ACTIVITIES
   3.1 IMPLEMENTATION STATUS OF THE GE-MIM-VIII WORKPLAN
   3.2 IODE-XVIII AND IODE-XIX OUTCOME RELEVANT TO GE-MIM
4 COMMUNICATIONS
   4.1 Communication Strategy for GE-MIM and MIM National Coordinators
   4.2 IODE web site and MIM
   4.3 Building Links with Other IM Programs
   4.4 Long-Term Strategic Plan
5 CAPACITY BUILDING
   5.1 ODINs
   5.2 OceanTeacher: MIM content
   5.3 Mentoring programmes
6 IODE/MIM PRODUCTS
   6.1 GE-MIM involvement in IODE product development
   6.2 E-Repositories (OceanDocs)
   6.3 Integrated Library Management System software and Library Holding databases
7 MIM ACTION PLAN FOR THE NEXT INTERSESSIONAL PERIOD
8 ELECTION OF THE GE-MIM CHAIRPERSON
9 DATES AND PLACE OF THE NEXT SESSION
10 OTHER BUSINESS
11 ADOPTION OF THE SUMMARY REPORT
12 CLOSURE
ANNEX II

RECOMMENDATIONS

Recommendation MIM-IX.1: TERMS OF REFERENCE OF THE IODE NATIONAL COORDINATORS FOR MARINE INFORMATION MANAGEMENT


Recommendation MIM-IX.1

TERMS OF REFERENCE OF THE IODE NATIONAL COORDINATORS FOR MARINE INFORMATION MANAGEMENT

The IODE Group of Experts on Marine Information Management,

Noting the importance of published information to research,

Emphasizing the contribution of librarians to the management and dissemination of marine information to a wide variety of user groups,

Recalling Recommendation MIM-VII.1 (2002) that recommended the nomination of IODE National Coordinators for Information Management and IODE National Coordinators for Data Management, replacing the existing IODE National Coordinators,

Recommends that the Terms of Reference for the IODE National Coordinators for Marine Information Management will include:

(i) Act as a point of contact for marine librarians and marine information managers in their country, in order to liaise with the IODE community (via the GE-MIM) on matters of importance to MIM;

(ii) Act as a communicator of IOC activities and initiatives to the national MIM community and beyond;

(iii) Provide assistance and support to the GE-MIM on IODE programme activities at the national or international level;

(iv) Establish a national working group that will create a national network of marine related libraries/marine information centres for their country or participate in existing related networks;

(v) Highlight and identify issues and participate in discussions of national importance relating to MIM with the GE-MIM and the national MIM community (such as capacity building and professional standards, technological innovations and policy, communications and collaboration, national and international MIM resources);
(vi) Provide reports to the IODE Committee (or IODE Officers), highlighting needs and issues that should be addressed by GE-MIM, for consideration by the IODE Committee or IODE Officers. The Committee or IODE Officers can then instruct the GE-MIM to deal with these needs and issues;

(vii) Liaise, where possible, with the IODE National Coordinator for Data Management on matters relevant to both marine data and information management.

(viii) Participate in Sessions of the IODE Committee

**Recommends further** that the following criteria be applied by IOC Member States to identify IODE National Coordinators for Information Management:

(i) Responsible for a major marine library and information service

(ii) Should have a senior position in a marine related library or information centre

(iii) Should have librarian qualification or equivalent experience in a library

(iv) Interested in new developments in library and information science

(v) Should be allowed by their parent institution to attribute time to the fulfilment of the role of IODE NC for MIM

(vi) Should be provided with necessary financial support to enable participation in Sessions of the IODE Committee
Recommendation MIM-IX.2

ACTION PLAN OF THE GROUP FOR 2007-2008

Having reviewed its completed and on-going activities since its eighth Session,

Being aware of the resource constraints (staff and funding) under which IOC and its IODE are operating in terms of the UNESCO Regular Programme,

Expressing its appreciation for the considerable extra-budetary support provided by IOC Member States to the IODE programme,

Stressing the importance of Marine Information Management (MIM) as an important activity of IODE towards improving access to marine information,

Adopts a plan of action for the intersessional period 2007-2008, as given in the Annex to this Recommendation.

Annex to Recommendation MIM-IX.2

MIM ACTION PLAN FOR 2007-2008

<table>
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<tr>
<th>No</th>
<th>Description</th>
<th>Responsibility</th>
<th>Deadline</th>
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</table>
| 3.1 | **1. GE-MIM-VI Action 3: Request Publishers to ask Authors to Define Keywords using ASFIS Thesaurus:**  
  • The Group decided that this content (ASFA Thesaurus) should be made available through the new IODE web site. The Group **recommended** to link to the FAO ASFA Thesaurus web site rather than having the document on the IODE web site  
  • The Group decided to prepare a list of Publishers who should be the target of a mailing informing them of the ASFA Thesaurus and recommending that this tool should be used as a reference for keyword allocation. | Secretariat      | Sep 07 |
|    |                                                                             | Group          | Sep 07 |
| 3.1 | **2. GE-MIM-VI Action 4: Monitoring of Electronic Copyright Legislation in Relation to Electronic Document Delivery:**  
  • The Group decided that this content should be made available through the new IODE web site (see Agenda Item 4.2) but, as the content changes so regularly, the Group decided that a link should be made to the relevant page in OceanTeacher Digital Library (http://iodeweb5.vliz.be/oceanteacher/index.php?module=resou re&mod=content&nodeid=gen11Srv32Nme37 797 ) rather than creating/duplicating content in the new web site. The content in the old web site should therefore not be | Secretariat      | Sep 07 |
<table>
<thead>
<tr>
<th>3.1</th>
<th>3. GE-MIM-VI Action 5: Meeting of ICSPRO &amp; other UN Agencies on Co-ordination of MIM Activities: The Group established an inter-sessional working group to deal with this issue, composed of Linda Noble, Linda Pikula, and Janice Beattie</th>
</tr>
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<tbody>
<tr>
<td>4.1</td>
<td>5. GE-MIM-VI Action 13: Paper on Hardware/software Requirements for Marine LIC The GE-MIM instructed the OceanTeacher MIM editor to create a page in the DL that links to relevant web sites that collate and/or review library software applications.</td>
</tr>
<tr>
<td>3.1</td>
<td>7. IODE-XVI para. 221 (Marine Pollution): The Group called on IOC/IODE to ensure that marine librarians are actively involved in projects like marine atlases.</td>
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<td>3.1</td>
<td>9. GE-MIM-VII: Access to E-Journals The Group instructed the Secretariat to add a link to the service (ATOZ) from the IODE web site and requested the administrators of ODIN web sites to do the same for their web sites.</td>
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<td>3.1</td>
<td>13. OceanPortal The Group briefly reviewed the revised top-level category page and made the following observations and recommendations for further action (see details in body of report): Maintenance: the Group recommended that an OP main editor be “hired” to undertake regular QC of the site. The Group recommended Dr Brown for this job, taking into consideration his excellent work on OP since the establishment of the site. The Group also recommended that IODE National Coordinators for MIM take some responsibility for the QC of the product and instructed the OceanPortal main editor, when hired, and GE-MIM Chair should contact the IODE National Coordinators for MIM in this regard. Regarding languages the Group recommended that the OP homepage and category listing should also be made available in Spanish as a way to promote the product. (it was noted that the site metadata cannot be translated). The Group further recommended to add a field “Language of content” and enabling filtering searches by this field.</td>
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### 3.1 20. ODINAFRICA

- **The Group recommended** to ensure compatibility with ASFISIS when identifying a new ILMS for the ODINs. In this regard a more standard approach to import/export would be advisable.

- **The Group requested** the Chair to communicate with the ASFA Secretariat regarding the possibly change of ODIN-standard ILMS.

- **The Group,** while noting that CDS/ISIS is still widely used, requested that this software be taken into consideration as well.

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<th>Name</th>
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<tr>
<td>Arame Keita</td>
<td>Oct 07</td>
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<td>Chair</td>
<td>Oct 07</td>
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<tr>
<td>Arame Keita</td>
<td>Oct 07</td>
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</table>

### 3.1 27. CO-OPERATION WITH OTHER ORGANIZATIONS, PROGRAMMES AND PROJECTS: Within IODE

- **The Group requested** that MIM experts be involved in the continued development of the African Marine Atlas, and to ensure that MIM experts are involved in any future marine atlas development project (e.g. Caribbean Marine Atlas).

- **The Group requested** the management group of the ODP Project, through the IODE Co-Chairs, to consider the inclusion of MIM experts in the ODP project and its management group.

- Regarding cooperation of MIM in other science programmes **the Group requested** that this should be further developed through the adopted IOC Strategic Plan for Oceanographic Data and Information and more particularly through the IOC D&IM Advisory Group.

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<th>Name</th>
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<tr>
<td>AMA team</td>
<td>Continuous</td>
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<td>IODE Co-Chairs</td>
<td>Sep 07</td>
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<td>Advisory Group</td>
<td>asap</td>
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### 3.1 28. CO-OPERATION WITH IAMSLIC, EURASLIC AND RELATED MARINE LIBRARY ASSOCIATIONS

- **The Group instructed** the Chair to urge MIM national coordinators to participate in IODE Committee Sessions.

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<th>Name</th>
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<tr>
<td>Chair</td>
<td>2008</td>
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### 3.2 IODE –XVIII AND IODE-XIX OUTCOME AS RELEVANT TO GE-MIM

- **Agenda Item 3.4 – Reports of NODCs and DNAs**
  - **The Group decided** to review the template for submission of national reports with the view to make them more relevant to marine information management. **The Group requested** the Chair and Ms Janice Beattie to undertake this task.

- **Agenda Item 4.2 – Impact of IODE Review and Follow-up**
  - The Role of IODE National Coordinators for Marine Information Management (MIM) was defined (in 2006). **The Group recommended** the following modifications: (see body

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<tr>
<td>Chair/ J. Beattie</td>
<td>Jan 08</td>
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<tr>
<td>IODE Officers</td>
<td>Nov 07</td>
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of report) – Recommendation XIX.1

- Amend Role of IODE National Coordinators for Marine Information Management on IODE web site

- **The Group instructed** the Secretariat to include the role, selection criteria and benefits to the IODE web site.

- **The Group requested** to send a new Circular Letter including the revised Role, Criteria and Benefits.

<table>
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<tr>
<th>3.2</th>
<th>IODE-XIX ACTION SHEET</th>
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<td></td>
<td><strong>Action 31: The Group decided</strong> to start a pilot project on “mashup” service. <strong>The Group invited</strong> Ms Simpson to prepare a short document on the “mashup” concept and its requirements leading to a pilot project. The tsunami 2004 could be a topic to focus on. (this needs further discussion with the IOC tsunami programme and ITIC).</td>
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<td>P. Simpson Oct 07</td>
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<tr>
<th>4.1</th>
<th>Communication strategy for GE-MIM and MIM national coordinators</th>
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<tr>
<td>4.1.1</td>
<td><strong>The Group requested</strong> the Secretariat to investigate whether registration emails of new MIM NCs be cc-ed to GE-MIM Chair and to GE-MIM members.</td>
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<td></td>
<td>Secretariat Nov 07</td>
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**The Group decided** that, if the above-mentioned technical modification of OceanExpert is possible then the following actions will be undertaken when a new MIM MC registers:

- The Chair will contact the person and welcome them, and provide them with: Links to documents, NC coordinator page, role/benefits, to GE-MIM web pages, and MIM ODIN coordinator details;

- The Secretariat will send a pack of posters;

- The Chair GE-MIM will inform all NCs and GE-MIM members through IODE web site mailing system (*);

- The Chair GE-MIM will include the name of another national expert who can be contacted for further guidance;

- The new NC will be invited (added) to the MIM groupware site (see below).

4.1.2 **The Group stressed the need** to develop promotional materials for IODE and MIM. In this regard **the Group requested** the Secretariat to investigate the possibility of pens, flags, mugs, USB sticks, mouse pads. These materials could then be mailed to the new MIM NCs together with the posters.

**The Group requested** the Secretariat to investigate the possibility of a formal document that officializes the nomination of the NC
MIM, possibly a certificate.

4.1.3 **The Group requested** the secretariat to set up a “IODE marine information management knowledge sharing “ groupware site using the current iode.grouphub.com service

4.1.4 In order to receive regular feedback from the MIM community, which would serve to guide the work of the GE-MIM the Group, **recommended** sending out such a survey annually.

**The Group further invited** IAMSLIC to cooperate in this undertaking.

**The Group requested** the Chair to prepare a short paper on the GE-MIM Communications Strategy by the end of October 2007.

**The Group requested** the Secretariat to publish this document as a formal IOC document in the IOC/INF series.

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<th>4.2</th>
<th><strong>IODE WEB SITE AND MIM</strong></th>
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<tr>
<td></td>
<td><strong>Overview page IODE National Coordinators</strong></td>
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<td>Revisions as detailed in body of report</td>
<td>Secretariat</td>
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<tr>
<td><strong>The Group requested</strong> that in the display page of the IODE NCs for MIM list (See Figure 3) there should also be a link to the library of that NC. <strong>The Group noted</strong> that the list display currently only provides telephone and fax numbers. A URL is only provided in the details page.</td>
<td>Secretariat</td>
</tr>
<tr>
<td><strong>The Group instructed</strong> the Secretariat to inform the MIM NCs that they should add their library web site and not general institutional web site.</td>
<td>Secretariat</td>
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<tr>
<td><strong>General Section / About Marine Information Management</strong></td>
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<tr>
<td>Revisions as detailed in body of report</td>
<td>Secretariat</td>
</tr>
<tr>
<td><strong>IODE homepage: General Information – main options</strong></td>
<td></td>
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<tr>
<td>Revisions as detailed in body of report</td>
<td>Secretariat</td>
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<tr>
<td><strong>The Group further recommended</strong> using more images in the MIM related pages.</td>
<td>Members</td>
</tr>
<tr>
<td><strong>The Group also recommended</strong> to design a “branding image” with the theme elements: library, information technology, digital, networking, oceans. The graphic element then needs to be included in pages of activities or products developed/maintained by IODE MIM/GE-MIM.</td>
<td>Secretariat (contractor)</td>
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<th>4.3</th>
<th><strong>Building links with other IM programmes</strong></th>
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<tr>
<td>4.3.1 IAMSLIC</td>
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<tr>
<td>• <strong>The Group recommended</strong> that a new Memorandum of</td>
<td>Secretariat/IA</td>
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</table>
Understanding be established between IOC/IODE and IAMSILIC. **The Group further recommended** that the MOU should take into consideration: (see body of report)

- **The Group requested** Linda Pikula, who will attend the 2007 IAMSILIC Conference, to make a brief presentation on the benefits of IODE (ODIN) and IAMSILIC and to highlight the potential benefit of a new MOU might achieve. The presentation should also outline IODE and IAMSILIC products.

- **The Group suggested** investigating the possibility to develop a joint IAMSILIC/IODE harvester of e-repositories.

- **The Group further recommended** that a GE-MIM member should participate in the 2008 (Fiji) IAMSILIC meeting.

### 4.3.2 ASFA

- **The Group requested** the Secretariat to provide the above information to the ASFA Secretariat as a basis for further discussion on cooperation.

- **The Group requested** the IODE Secretariat to inquire with the ASFA Secretariat (FAO) whether IOC documents are still entered into ASFA and how.

### 4.3.3 Others

- **The Group decided** that a Document should be prepared explaining about the IOC/IODE marine information management programme that should be sent to the above organizations seeking expressions of interest in cooperation.

- **The Group further recommended** that a Conference be organized at the IOC Project Office for IODE to discuss collaborative ventures.

### 4.4 Long-term strategic plan

- **The Group decided** to continue the drafting of the strategic plan by email, taking into consideration the IOC Strategic Plan for D&IM as well as the Report of the IODE review commissioned by UNESCO as well as the feedback from the MIM community on issues of concern and future directions for MIM.

- **The Group recommended** that the resulting document (after consultation with above mentioned organizations and partners as well as NCs for MIM), would be published as an IOC Document.
<table>
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<tr>
<th>5</th>
<th>CAPACITY BUILDING</th>
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<tbody>
<tr>
<td>5.1</td>
<td>ODINs</td>
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<tr>
<td>5.1.1. ODINCARSA</td>
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<tr>
<td>• provide financial support for MIM course in Montevideo, Uruguay, November 2007 (US$ 5000)</td>
<td>IODE</td>
</tr>
<tr>
<td>• provide financial support for MIM course in Valparaiso, Chile, March/April 2008</td>
<td>IODE</td>
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<tr>
<td>• organize training course to ensure an overall similar level of technical expertise of the information professionals involved in the Project (approx. cost: US$ 50000)</td>
<td>IODE</td>
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<tr>
<td>• to create a programme to support a Digitization Project (Retrospective Digitization of documentation) to improve access and ensure long-term preservation and archival</td>
<td>IODE</td>
</tr>
<tr>
<td>• to evaluate and select an Integrated Library Management System (ILMS) software application (open source) for libraries in the ODINCARSA region;</td>
<td>GE-MIM</td>
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<tr>
<td>• to provide support for meetings (national and regional) to promote professional networking.</td>
<td>IODE</td>
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<tr>
<td>• <strong>The Group stressed the need</strong> to mobilize all countries in the region and <strong>requested</strong> the ODINCARSA MIM coordinator to take the necessary action to promote MIM in the region.</td>
<td>ODINCARSA MIM coordinator</td>
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5.1.2 ODINAFRICA

- **The Group invited** the Government of Flanders and IODE to continue its strong support to Africa through a possible fourth phase of ODINAFRICA

5.1.3 ODINCINDIO

- **The Group recommended** identifying resources to promote the importance of regional MIM networking and to provide capacity development assistance.

5.1.4 ODINECET

- **The Group recommended** to identify resources to assist institutions with basic computer infrastructure, software and training.

5.1.5 ODINWESTPAC

- **The Group recommended** to request Mr Yang Ying to provide advice on the needs of the region and the way forward.

- **The Group recommended** that ODIN activities in this region be implemented in close collaboration with PIMRIS, through the PIMRIS Coordination Unit (the formalities need to be further investigated). This would also allow the continuation of
the PIMRIS brand.

- **The Group requested** Ms Davies to inform that meeting on what IODE is able to do.

- **The Group requested** the Chair, together with the IODE Secretariat, to discuss possible cooperation between IODE and PIMRIS, through an ODIN type project by email and during the November meeting. Based upon these discussions further actions can be planned for 2008.

- **The Group stressed** the importance to assess the capacity needs of this region.

- **The Group recommended** that FAO be invited to participate in this undertaking from the start.

- **The Group recommended** that PIMRIS be requested to identify participants for the course, in close consultation with IOC (action addresses of relevant member states).

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<th>Role</th>
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<tr>
<td>Chair</td>
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<td>Chair/Secretariat</td>
<td>07/08</td>
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<tr>
<td>PIMRIS/Chair</td>
<td>Oct 07</td>
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<tr>
<td>PIMRIS/Chair</td>
<td>Nov 07</td>
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### 5.2 OceanTeacher: MIM content

- **The Group reiterated** the great importance of OceanTeacher as a referral and training system **urging** IODE to continue its development and maintenance.

- **The Group, noting** the end of the current project in 2008, **instructed** the OceanTeacher Steering Group to implement a review of the project, and to prepare a proposal for a next phase of the Project, for submission to donors in 2008.

- **The Group expressed its concerns** about the technical difficulties with the Digital Library content management system and **urged** the SG-OT to find an alternative solution as soon as possible, bearing in mind the great interest in OT.

- **The Group urged** MIM experts in all regions to actively participate in the OT projects by developing content for OT. The Group members expressed their intention to assist in this regard. The Group noted however that it would be necessary to provide clear information on where the gaps are and what material is suitable.

- **The Group requested** Ms Pikula to prepare a short list of sections for which content is required (Digital Library and courses) (mainly section 11). This list should then be added to the heading “Information for content providers and lecturers” on the OceanTeacher homepage and should be updated regularly.

- **The Group requested** to add a statement explaining that “OT is continuously being developed and should therefore not be seen as a final and completed product”.

- **The Group requested** that the courses assessment information should also be used to regularly update the
course content requirements.

- **The Group recommended** that a survey be undertaken to assess issues and priorities of MIM national coordinators regarding MIM training requirements, taking into consideration the current content in OceanTeacher MIM.

<table>
<thead>
<tr>
<th>5.3 Mentoring Programmes</th>
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<tbody>
<tr>
<td>- <strong>The Group recommended</strong> that some funds be set-aside in donor funded ODIN projects for mentoring (both within the region as well as outside).</td>
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<tr>
<td>- <strong>The Group further requested</strong> the Chair to send out a message to MIM NCs to inquire about their capability to host interns/mentoring candidates (or undertake buddy (virtual) arrangements). The message should also request MIM NCs to identify sources of funding for such arrangements. It was noted that in a number of cases the parent institution of the intern might be able to fund the internship/mentoring.</td>
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<tr>
<td>- <strong>The Group further recommended</strong> that such an undertaking be organized in cooperation and/or consultation with IAMSPLIC.</td>
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<tr>
<td>- <strong>The Group requested</strong> Ms Beattie to develop this concept in more detail and share it with the Group by email</td>
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<tr>
<th>6.1 GE-MIM involvement in IODE Product Development</th>
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<tr>
<td><strong>6.1.1 OceanExpert</strong></td>
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<tr>
<td>- <strong>The Group requested</strong> the following revisions of the OceanExpert system (see body of report for details)</td>
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<tr>
<td>- <strong>The Group requested</strong> Dr Rommens to investigate the possibility to link OceanExpert with OceanDocs (and Google Scholar?).</td>
</tr>
<tr>
<td>- <strong>The Group recommended</strong> the development of a “groupware” functionality to OceanExpert enabling experts in OceanExpert to create groups which can then post messages, files, work plans with deadlines etc.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>6.1.3 OceanPortal</strong></th>
</tr>
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<tbody>
<tr>
<td>- <strong>The Group identified</strong> a few issues that need attention and <strong>instructed</strong> the Secretariat to address these</td>
</tr>
<tr>
<td>- <strong>The Group recommended</strong> that a more proactive promotion campaign be organized for OceanPortal, especially in Africa and Central/South America</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>6.1.4 Other products</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>- <strong>The Group</strong>, considering the wealth of products that have been developed by IODE, <strong>recommended</strong> the development of a Google-type search tool that can locate information across all</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OT MIM editors</th>
<th>Early 2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>early 08</td>
</tr>
<tr>
<td>Chair/IAMSPLIC</td>
<td>early 08</td>
</tr>
<tr>
<td>J. Beattie</td>
<td>Oct 07</td>
</tr>
<tr>
<td>Secretariat</td>
<td>Nov 07</td>
</tr>
<tr>
<td>W. Rommens</td>
<td>Nov 07</td>
</tr>
<tr>
<td>Secretariat</td>
<td>Feb 08</td>
</tr>
<tr>
<td>Secretariat</td>
<td>Nov 07</td>
</tr>
<tr>
<td>Secretariat. ODIN coordinators</td>
<td>2008</td>
</tr>
<tr>
<td>Secretariat</td>
<td>2008</td>
</tr>
</tbody>
</table>
products

- **The Group**, considering the need to promote, at the institutional management level, the importance of Marine Information Management, **decided** to prepare a short (5-10 pages) brochure/document entitled: “Towards e-Science: Why you need a marine library/information centre - Participating in the IODE Marine Information Management programme: benefits and requirements.”.

<table>
<thead>
<tr>
<th>6.2 OceanDocs</th>
<th>L. Pikula/ GE-MIM members</th>
<th>Dec 07</th>
</tr>
</thead>
</table>

**OceanDocs**

- **The Group decided** that the current membership of the OceanDocs groupware site would constitute the OceanDocs Steering Group as this group reflects the wide range of regions and expertise required. The steering group can be further expanded as new repositories are established in ODINs and gradually migrate into an OceanDocs user group. Additional experts could also be added as required.

- It was noted however that the 2 ODINAFRICA members (Josette Confait and Cheikh Ibrahim SAKHO) have left their institution either permanently or temporarily. They will need to be replaced as soon as possible as they were OceanDocs administrators for ODINAFRICA.

- In this regard the **Group invited** Ms Keita to discuss this matter at the ODINAFRICA PSC level as soon as possible.

- **The Group decided** to add Ms Linda Pikula to the OceanDocs Steering Group.

- **The Group also recommended** that the OceanDocs Steering Group takes responsibility for liaison with the Aquatic Commons Steering Group on behalf of the GE-MIM. (reference is made also to Agenda Item 4.3).

- **The Group also decided** to prepare an OceanDocs policy statement on scope (environment regime, subjects,...), membership (right to enter content), commitments of the host IOC/IODE (secure archival), allowed/preferred content (types), language(s).

- **The Group recommended** that a priority for the Steering Group should be to finish import/export utilities: import ASFA and ASFISIS; export: DC qualified, AGRIS AP and MODS.

- The Group pointed out the need to have a clear joint statement between IAMSLIC and IOC on the terms of reference and demarcation of OceanDocs and Aquatic Commons. (The informal agreement is that if a country is part of an ODIN then they input in OceanDocs). **The Group decided** to prepare a written statement to IAMSLIC for further discussion.

- The Group briefly discussed the potential need to develop a harvester for ocean related material, while acknowledging the existence of Avano. **The Group decided** not to discuss this
matter in detail and **instructed** the Steering Group for OceanDocs to address this issue as soon as possible.

- **The Group expressed its gratitude** to Josette Confait who has been instrumental in the development of both AFRILIB and ODINPubAfrica and **instructed** the Chair to send a letter to Ms Confait on behalf of GE-MIM.

- **The Group recommended** to promote the development of e-repositories through the IODE National Coordinators for MIM. In this regard the available 1-page brochure could be distributed (it will need some redesign to give it a more global character as the current brochure focuses on Africa).

- **- The Group requested** Mr Marc Goovaerts ways to involve members of the Steering Group in the continued development of OceanDocs.

### 6.3 Integrated Library Management System software and Library Holding databases

- The Group decided that ILMS selection criteria need to be defined. The Group created an inter-sessional working group to deal with this issue, composed of Marc Goovaerts, Pauline Simpson, Janice Beattie, Linda Pikula, Arame Keita, Murari Tapaswi and Patricia Muñoz. [deadline: October 2007].

- It was recommended to prepare a draft list and send this to the IAMSLIC 2007 mailing list. The working group will be Chaired by Murari Tapaswi.

- The Group noted the need to then consult with marine librarians in IOC Member States to find out about their requirements.

- The Group noted that migration from INMAGIC to a new solution should be foreseen in 2008.

- The Group noted that it would be necessary to ensure compatibility with ASFISIS when identifying a new ILMS for the ODINs. In this regard a more standard approach to import/export would be advisable. **The Group requested** the Chair to communicate with the ASFA Secretariat regarding the possible change of ODIN-standard ILMS.

10 **Website archiving:** Patricia Muñoz will circulate a document on website archiving to the members of the Group for further discussion during the inter-sessional period. The document may also be circulated to the NCs for MIM. [deadline November 07; Spanish and English]
ANNEX III

LIST OF PARTICIPANTS

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ANNEX IV

IODE Strategic Plan – Marine Information Management

(Draft as at 17 March 2007)

What Is Marine Information Management?: Helping to Understand and Protect the Marine Environment

On our blue planet, the dominant feature is ocean. It contains 97 percent of the Earth’s water and releases vapour into the atmosphere that returns as rain, sleet, and snow, ever replenishing the planet with freshwater. All life, including our own, is dependent on the ocean. Understanding the ocean is integral to comprehending this planet on which we live. Understanding the ocean is more than a matter of curiosity. Exploration, inquiry and study are required to better understand ocean systems and processes.

Marine Science Libraries hold an important role in promoting information about the marine environment: information provision to the policy makers in order to enable them to make the best decisions regarding the protection and use of the marine environment; educating the next generation of environmental stewards; attracting a future environmentally concerned workforce and generating an ocean literate public that understands the value of the ocean and can make appropriate decisions to protect it.

On an International scale, networks of Marine Information Management (MIM) Centres, collaborating to develop products and services, strengthen our global understanding of ocean processes and conditions. Marine Information Management is a vital process in this knowledge cycle.

Goals

- To encourage and support the sharing of marine information between IOC member countries
- To facilitate the development of a network of complementary technologies (such as electronic repository services)
- To provide appropriate training, capacity building for technical marine information professionals
- To develop and provide infrastructure to support to information management services (e.g. ODIN networks)

Guiding Principles

(i) Marine Information is a common resource, indispensable for understanding the ocean and for the wise exploitation and management of its resources.

(ii) Marine Information is a prerequisite to the development of national and regional infrastructures, and contributes to the transfer of knowledge and technology between developing and developed countries.

(iii) International marine information systems exist to interact and cooperate within a network of information centres, each of which is self-sufficient at the national level.

(iv) Management of a cooperative network, based on the sharing of information resources, is coordinated by the Intergovernmental Oceanographic Commission/IODE within the United National system, to ensure cohesion and coherency.
Member States make a firm commitment to a national policy in marine information management, based on the framework, services, and products and nominate members to contribute to the IODE Group of Experts on Marine Information Management (GE-MIM).

The international library and information management community has adopted a range of standards which facilitate the interchange of library data, which promote the inter-operability of information management systems, and which support the operation of national and international networks of libraries and information management centres. Adherence to standards plays an important role in improving access by users to the information resources which are held in marine library collections, in collections of other marine institutions, or which are accessible on the World Wide Web (e.g. AACR2, DDC, Dublin Core, MARC21, Z39.50, OAI, ILL Protocol)

**Strategies for Marine Information Management**

1. Increasing participation of marine information managers in IODE community

(Scope: Increasing the membership of marine information management National Coordinators in the IOC member states, and encouraging active participation in the IODE MIM programme)

2. Capacity building for marine information managers

(Scope: developing programs to improve the capability of IOC member states, particularly developing countries, so that they can benefit from and participate in marine information systems, and to keep member states informed on how they might best gain access to such systems through the application of information technology)

3. Review of information management policy and standard development & technological applications

(Scope: identifying and reviewing developments in policy, and technological applications of marine information management by keeping user requirements under continuing review and ensuring that these requirements are met adequately)

4. Filling gaps in international MIM resources

(Scope: identifying existing gaps in international marine information management resources, and to participate in the development of appropriate products and service)

5. Intra-agency & inter-agency communication & collaboration

(Scope: further enhancement of strong levels of co-operation and collaboration within IODE, and to represent the IOC on inter-agency panels on marine information management, and to establish co-operative arrangements with other relevant marine organizations)

**Programme of Activities**

The Marine Information Management Programme within IODE focuses on the implementation of regional Ocean Data and Information Centres. In particular the provision of technical training for national centres that prepare marine information products. MIM promotes the training of Information Professionals from centres in developing countries and conducts courses and workshops for information professional trainees and users of information, including courses on the application of marine information to meet specific types of user needs:
1. Work with IODE Secretariat to identify potential new National Coordinators for Marine Information Management.

2. Establish an active network of marine information experts within the IODE community.

3. Enhance the development of the IODE marine products and services, such as


   Ocean Expert (or the Global Directory of Marine (and Freshwater) Professionals) is a database, developed and maintained by the Intergovernmental Oceanographic Commission of UNESCO (IOC), containing information on individuals and institutions involved in all aspects of Marine or Freshwater Research and Management. It is intended to be a tool for scientists, policy makers and anyone who needs to contact a marine or freshwater professional. Ocean Expert currently contains 8655 experts and 4847 institutions.


   Ocean Portal is a high-level directory of Ocean Data and Information related websites. Its objective is to help scientists and other ocean experts in locating such data & information.

   Ocean Teacher [http://ioc.unesco.org/oceanteacher/OceanTeacher2/index.htm](http://ioc.unesco.org/oceanteacher/OceanTeacher2/index.htm)

   The objective of Ocean Teacher is to provide training tools for Oceanographic Data and Information Exchange. These tools are used during IODE Training Courses but can also be used for self-training and continuous professional development.


   Electronic repository of Ocean Publications. Research & Publications in Marine Science in digital form, including preprints, published articles, technical reports, working papers and more.

   Regional Library Catalogs:

   AFRILIB [http://193.191.134.12/afrilib](http://193.191.134.12/afrilib). This is the combined library holding database of all marine partner libraries in Africa. This database currently holds approx. 12000 records.

4. Support and develop marine information management aspects of the ODIN networks and raise awareness of marine information management activities in ODINs.

5. Collaborate and assist with information components of the IODE programme, and cooperate with relevant external agencies and organisations on information management.

6. Raise awareness of data management community to resources of data available in marine information centres and encourage collaboration between data managers and information managers.
Communication and Outreach: Our Users and Partners

The users of Marine Information include research scientists, policy makers, students at all levels, educators, industry and businesses. Marine Information Management Centres interact with Marine Data managers to deliver information products, e.g. Data that has been processed and interpreted. We may repackate the data in the form of electronic citation databases, Internet bibliographies, regional repositories of stored and accessible scientific research, online catalogs of specialized collections, or digitized collections of difficult to find scientific studies. We establish national and international standards to disseminate this information, and we form groups of networked individuals and professional societies to collaborate on new products, on training courses and technology for the delivery of marine and atmospheric information. We actively participate in cooperative networks of marine information management agencies in order to enhance the sharing of information resources.

Collaboration with Other Agencies

(to develop)
ANNEX V
LIST OF ACRONYMS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>AFRIAMSLIC</td>
<td>Africa Regional Group of the International Association of Aquatic and Marine Science Libraries and Information Centres</td>
</tr>
<tr>
<td>AFRIDIR</td>
<td>African Directory of Marine and Freshwater Professionals</td>
</tr>
<tr>
<td>AFRILIB</td>
<td>Collection of oceanographic publications from African libraries</td>
</tr>
<tr>
<td>AGORA</td>
<td>Access to Global Online Research in Agriculture (FAO)</td>
</tr>
<tr>
<td>AGRIS</td>
<td>International Information System for the Agricultural Sciences and Technology (FAO)</td>
</tr>
<tr>
<td>AGRIS AP</td>
<td>AGRIS Application Profile (FAO)</td>
</tr>
<tr>
<td>ASFA</td>
<td>Aquatic Sciences and Fisheries Abstracts</td>
</tr>
<tr>
<td>ASFIS</td>
<td>Aquatic Sciences and Fisheries Information System</td>
</tr>
<tr>
<td>CL</td>
<td>Circular Letter</td>
</tr>
<tr>
<td>CPPS</td>
<td>Comisión Permanente del Pacífico Sur</td>
</tr>
<tr>
<td>D&amp;IM</td>
<td>Data and Information Management</td>
</tr>
<tr>
<td>DL</td>
<td>Digital Library (OceanTeacher)</td>
</tr>
<tr>
<td>DOAR</td>
<td>Directory of Open Access Repositories</td>
</tr>
<tr>
<td>EIFL</td>
<td>Electronic information for libraries</td>
</tr>
<tr>
<td>ETDMP</td>
<td>Expert Team on Data Management Practices (JCOMM/IODE)</td>
</tr>
<tr>
<td>EURASLIC</td>
<td>European Association of Aquatic Sciences Libraries and Information Centres</td>
</tr>
<tr>
<td>FAO</td>
<td>Food and Agriculture Organization of the United Nations</td>
</tr>
<tr>
<td>GE</td>
<td>Group of Experts</td>
</tr>
<tr>
<td>GE-BICH</td>
<td>IODE Group of Experts on Biological and Chemical Data Management and Exchange Practises</td>
</tr>
<tr>
<td>GE-MIM</td>
<td>IODE Group of Experts on Marine Information Management</td>
</tr>
<tr>
<td>HINARI</td>
<td>Health InterNetwork to Research Initiative (WHO)</td>
</tr>
<tr>
<td>IAMSLIC</td>
<td>International Association of Aquatic and Marine Science Libraries and Information Centers</td>
</tr>
<tr>
<td>ILL</td>
<td>Inter Library Loan</td>
</tr>
<tr>
<td>ILMS</td>
<td>Integrated Library Management System</td>
</tr>
<tr>
<td>IMIS</td>
<td>Integrated Marine Information System (VLIZ, Belgium)</td>
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</tbody>
</table>
INASP  International Network for the Availability of Scientific Publications
IOC  Intergovernmental Oceanographic Commission (UNESCO)
IODE  International Oceanographic Data and Information Exchange (IOC)
IPY  International Polar Year
ITIC  International Tsunami Information Center
JCOMM  Joint WWM-IOC Technical Commission for Oceanography and Marine Meteorology
MIM  Marine Information Management
MODS  Metadata Object Description Standard
MOU  Memorandum of Understanding
NC  National Coordinator
NOAA  National Oceanic and Atmospheric Administration (USA)
OAI  Open Archives Initiative
OARE  Online Access to Research in the Environment (UNEP, Yale University)
OBI  Ocean Biodiversity
ODIN  Ocean Data and Information Network
ODINAFRICA  Ocean Data and Information Network for Africa (IODE)
ODINCARSA  Ocean Data and Information Network for the Caribbean and South America
ODINCINDIO  Ocean Data and Information Network for the Central Indian Ocean
ODINECET  Ocean Data and Information Network for European Countries in Economic Transition
ODINPubAfrica  e-repository of the ODINAFRICA project
ODINWESTPAC  Ocean Data and Information Network for the
ODP  Ocean Data Portal
OE  OceanExpert
PIMRIS  Pacific Islands Marine Resources Information Systems
PIRG  Pacific Islands Regional Group (IAMSLIC)
QC  Quality Control
ROAR  Register of Open Access Repositories
SAIAB  South African Institute for Aquatic Biodiversity (formerly JLB)
SAIL  Southeast Affiliate of IAMSLIC Libraries (IAMSLIC)
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>UNESCO</td>
<td>United Nations Education, Scientific and Cultural Organization</td>
</tr>
<tr>
<td>URL</td>
<td>Uniform Resource Locator</td>
</tr>
<tr>
<td>VLIZ</td>
<td>Vlaams Instituut voor de Zee</td>
</tr>
<tr>
<td>WDC-MARE</td>
<td>World Data Center for Marine Environmental Sciences (ICSU)</td>
</tr>
<tr>
<td>WESTPAC</td>
<td>IOC Sub-Commission for the Western Pacific</td>
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