



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

Tenth Session

IOC Project Office for IODE, Oostende, Belgium
4-6 November 2008



GE-MIM during the meeting (IOC Project Office for IODE, Ostend, Belgium)

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1. OPENING OF THE SESSION

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

In her opening remarks, Ms Suzie Davies noted that Ms Janice Beattie, Ms Sofia Goulala and Mr Murari Tapaswi had retired from the Group during 2008. Ms Davies highlighted their significant contributions over their many years of involvement with GE-MIM, and thanked them all for their hard work, wise advice and commitment. Ms Davies welcomed Ms Pauline Simpson as an invited guest to the session.

Ms Davies noted that, as per the IODE convention for Chair's positions on Groups of Experts, this was the last formal session under her Chairmanship. She invited expressions of interest from all GE-MIM members for the position, which will be declared vacant at the end of this session.

Ms Davies recalled that the GE-MIM last met in September 2007 in Oostende, Belgium (GE-MIM-IX). The GE-MIM-IX decided to propose the development of a new Memorandum of Understanding with the International Association for Aquatic and Marine Sciences Libraries and Information Centres (IAMSILIC). To that end, the GE-MIM Chair developed a presentation, which was formally put to the Business Meeting of the IAMSILIC Annual Conference in September 2007 by Ms Linda Pikula on behalf of GE-MIM. The Meeting unanimously supported the proposal in principle, and a joint IOC/IAMSILIC task force was established to pursue the issues for inclusion in the MOU. Ms Davies later attended the IAMSILIC Conference in 2008, where she presented a detailed presentation on priorities and specific tasks for collaboration. The results of those discussions will be presented at the GE-MIM X session.

Ms Davies described activities regarding the development of an ODIN for the Pacific Islands region. She explained that GE-MIM was present (Ms Davies or Ms Pikula) at 2 planning meetings (in November 2007, September 2008 in Fiji), and a combination training/planning meeting in Oostende, Belgium in May 2008. A pilot ODIN has been approved and is now functioning called ODIN-PIMRIS. Ms Davies congratulated all involved in its inception, and thanked the IODE and the Government of Flanders for their support.

Ms Davies reminded members of the upcoming IODE-XX Committee meeting, and encouraged the group to identify priorities and issues for future actions in support of IODE activities, for discussion at IODE-XX.

Ms Davies noted the range of relevant issues on the GE-MIM-X agenda, and highlighted the following specific issues for consideration:

1. Maintenance of existing MIM products
2. Linking existing products together
3. The expansion and management of important products such as institutional repositories and harvesters
4. Communication issues within IODE (e.g. National Coordinators for MIM) and with other major MIM agencies (e.g. IAMSILIC).
5. Considering the changing information technologies available (such as Web 2.0 products)
6. Rethink the present and future roles of librarians and libraries
7. How GE-MIM can assist IODE in its future MIM activities.

2. ADMINISTRATIVE ARRANGEMENTS

The Technical Secretary, Mr Wouter Rommens, informed the Group of the available working documents and called attention to the provisional agenda (http://www.iode.org/index.php?option=com_oa&task=viewEventAgenda&eventID=284). He reminded the Group that all documents had been made available through the IODE web site.

The Group adopted the Agenda of the meeting.

3. REPORT ON INTERSESSIONAL ACTIVITIES

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

The Group reviewed progress made with the work plan of its previous Session (GE-MIM-IX), held in September 2007 in Oostende, Belgium.

The Column “Action” refers to the number assigned to the action from the MIM Action Plan of GE-MIM-IX.

The column “Agenda item” refers to the agenda item in which the action was decided (in the report of GE-MIM-IX).

Action	Agenda item		Responsibility	Deadline
1	3	GE-MIM-VI Action 3: Request Publishers to ask Authors to Define Keywords using ASFIS Thesaurus: <ul style="list-style-type: none">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 siteThe 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 Group	Sep 07 Sep 07

Mr Peter Pissierssens reported that the current link to the ASFA thesaurus is available on the IODE website under Global activities
(http://www.iode.org/index.php?option=com_content&task=view&id=15&Itemid=54).

The Group decided to make use of the existing ASFA serial source list to send an emailed letter informing these publishers of the ASFA Thesaurus to recommend to them that this tool should be used as a reference for keyword allocation.

The Group decided to contact ASFA through Mr Richard Pepe in order to send this request to publishers by making use of the ASFA mailing list. The secretariat and Ms Linda Noble will prepare a formal letter to send to ASFA.

Action	Agenda item		Responsibility	Deadline
2	3.1	<p>GE-MIM-VI Action 4: Monitoring of Electronic Copyright Legislation in Relation to Electronic Document Delivery:</p> <ul style="list-style-type: none"> 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 rather than creating/duplicating content in the new web site. The content in the old web site should therefore not be migrated. The Group decided to also integrate the topic of licensing into the copyright page in OceanTeacher DL. 	<p>Secretariat</p> <p>L. Pikula</p>	<p>Sep 07</p> <p>Sep 07</p>

The Group requested Ms Linda Pikula to include content on rights management (e.g. Copyright, licensing, intellectual property) in the new OceanTeacher website.

Action	Agenda item		Responsibility	Deadline
3	3.1	GE-MIM-VI Action 5: Meeting of ICSPRO & 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	IWG	Oct 07
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Mr Peter Pissierssens reported that the ICSPRO is no longer active and has been replaced by other coordination mechanisms. In addition, some level of inter-agency coordination will be assured through the “IOC Data and Information Management advisory group”.

The Group therefore closed this item without further action.

Further discussions on this item were held under Agenda Item 4.2

Action	Agenda item		Responsibility	Deadline
5	3.1	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 Digital Library that links to relevant web sites that collate and/or review library software applications.	L. Pikula	Oct 07

The Group recalled that Dr Murari Tapaswi had prepared a document some years ago but noted that this document is now out of date due to the rapid changes in information technology.

The Group requested Ms Pauline Simpson to provide a list with relevant websites related to software for libraries for inclusion in Ocean Teacher.

Further discussions on this item were held under Agenda Item 6.4.

Action	Agenda item		Responsibility	Deadline
7	3.1	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.	IODE Co-Chairs	continuous

Further discussions on this item were held under Agenda Item 6.6.

Action	Agenda item		Responsibility	Deadline
9	3.1	<p>GE-MIM-VII: Access to E-Journals</p> <p>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.</p>	Secretariat/ ODIN web site managers	Sep 07

This action has been completed as the OpenScienceDirectory project (<http://www.opensciencedirectory.net>).

Further discussions on this item were held under Agenda Item 6.11.

Action	Agenda item		Responsibility	Deadline
13	3.1	<p>OceanPortal</p> <ul style="list-style-type: none"> 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 	<p>Secretariat contractor</p> <p>Secretariat</p> <p>Chair GE-MIM/ Editor</p> <p>Main editor/ P. Munoz</p>	<p>Asap</p> <p>asap</p> <p>asap</p> <p>early 2008</p>

		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.		
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Further discussions on this item were held under Agenda Item 6.2.

Action	Agenda Item		Responsibility	Deadline
20	3.1	ODINAFRICA <ul style="list-style-type: none"> 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. 	Arame Keita Chair Arame Keita	Oct 07 Oct 07 Oct 07

Ms Arame Keita reported that she attended a meeting in 2007 in Mombasa, Kenya with Dr Rybinski (ASFA input software development contractor) where she discussed the issue of interoperability between INMAGIC, WWW-ISIS-ASFA and OceanDocs. During this meeting it was agreed that Dr. Rybinski would further investigate this requirement. He further agreed to develop import-export procedures between the different systems. The Group was informed that this was now underway through an ASFA Trust Fund project.

Further discussions on this item were held under Agenda Item 6.11.

Action	Agenda Item		Responsibility	Deadline
27	3.1	CO-OPERATION WITH OTHER		

	<p>ORGANIZATIONS, PROGRAMMES AND PROJECTS: Within IODE</p> <ul style="list-style-type: none"> • 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. 	<p>AMA team</p> <p>IODE Co-Chairs</p> <p>Advisory Group</p>	<p>Continuous</p> <p>Sep 07</p> <p>asap</p>
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This item was completed.

Action	Agenda Item		Responsibility	Deadline
28	3.1	<p>CO-OPERATION WITH IAMSLIC, EURASLIC AND RELATED MARINE LIBRARY ASSOCIATIONS</p> <ul style="list-style-type: none"> The Group instructed the Chair to urge MIM national coordinators to participate in IODE Committee Sessions. 	Chair	2008

The Group encouraged the IODE National Coordinators for MIM to attend the IODE-XX Meeting that will be held in Tianjin (China) in May 2009.

The Group further requested the Chair to email all IODE National Coordinator for MIM urging them to attend the IODE-XX Meeting.

Action	Agenda Item		Responsibility	Deadline
No number assigned	3.2	<p>IODE –XVIII AND IODE-XIX OUTCOME AS RELEVANT TO GE-MIM</p> <p>Note: Agenda items below refer to the relevant IODE Session reports.</p> <ul style="list-style-type: none"> 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 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 for national coordinators to the IODE web site. The Group requested to send a new Circular Letter including the revised Role, Criteria and Benefits. 	<p>Chair/ Beattie J.</p> <p>IODE Officers</p> <p>Secretariat</p> <p>Secretariat</p> <p>Secretariat</p>	<p>Jan 09</p> <p>Nov 07</p> <p>Dec 07</p> <p>Dec 07</p> <p>Jan 09</p>

The Group was informed that Ms Suzie Davies and Ms Janice Beattie reviewed the template. Whilst finding it detailed they were unclear as to the purpose of the reports. Mr Peter Pissierssens reported that in the past the national reports provided mainly a qualitative overview of activities. He stressed that there is currently a need for more quantitative data in the national reports.

Further discussions on this item were held under Agenda Item 4.1.

The other actions have been completed.

Action	Agenda item		Responsibility	Deadline
No number assigned	3.2	IODE-XIX ACTION SHEET <ul style="list-style-type: none"> Action 31: 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). 	P. Simpson	Oct 07

Ms Pauline Simpson reported that she had completed the document as requested.

This issue was further discussed under Agenda Item 6.9.

Action	Agenda item		Responsibility	Deadline
No number assigned	4.1	Communication strategy for GE-MIM and MIM national coordinators <p>4.1.1 The Group requested the Secretariat to investigate whether registration emails of new MIM NCs be cc-ed to GE-MIM Chair and to GE-MIM members.</p> <p>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 NC registers:</p> <ul style="list-style-type: none"> 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 	Secretariat Chair Secretariat Chair Chair	Nov 07 continuous continuous continuous continuous

		posters;	Chair	continuous
		<ul style="list-style-type: none"> • 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). 	Secretariat	continuous
			Secretariat	continuous
		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.	Secretariat	Jan 08
		The Group requested the Secretariat to investigate the possibility of a formal document that officializes the nomination of the NC MIM, possibly a certificate.	Secretariat	Jan 08
			Chair	Oct 07
		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	Chair	2008
		4.1.4 In order to receive regular feedback from the MIM community, which would serve to guide work of the GE-MIM the Group, recommended sending out such a survey annually.	Chair	Oct 07
		The Group further invited IAMSLIC to cooperate in this undertaking.	Secretariat	Jan 08
		The Group requested the Chair to prepare a short paper on the GE-MIM Communications Strategy by the end of October 2007.	Chair	Oct 07
		The Group requested the Secretariat to publish this document as a formal IOC document in the IOC/INF series.		

Action item 4.1.1

Mr Peter Pissierssens reported that, as no new IODE National Coordinators for MIM have been nominated since GE-MIM-IX, the requested procedure had not been tested yet.

The Group noted that in some cases the national coordinator for MIM is not a librarian. In these cases it is difficult for these persons to get actively involved in the MIM network. The Group recalled that it had added selection criteria to the revised Terms of Reference for the NCs.

Action item 4.1.2

No actions have been undertaken yet.

Mr Pissierssens stressed that the development of promotional materials would be timely now considering upcoming events such as the 50th anniversary of the IOC in 2010, and the 50th anniversary of IODE in 2011.

The Group instructed the Secretariat to produce promotional materials in time for the anniversaries of IOC and IODE.

The Group decided to develop and provide national coordinators with a “certificate” declaring their official nomination as National Coordinator for Marine Information Management.

The Group further decided that such certificates should be distributed during IODE-XX.

Action item 4.1.3

Further discussions on this action item were held under Agenda Item 4.1.

Action item 4.1.4

The Chair, Ms Suzie Davies has completed this action item in September 2008. She reported that the number of respondents was quite low and that it was therefore difficult to draw conclusions.

The Group decided that the “IODE MIM Priorities Survey” questions needed further work in order to attract a better response and to obtain a more focused input that will guide the GE-MIM.

The Group further decided that the “IODE MIM Priorities Survey” should be undertaken 3 months before a GE-MIM meeting. Survey respondents should include the IODE National Coordinators for MIM, ODIN MIM coordinators (if they are not IODE NC for MIM) and IAMS LIC members.

A draft of the GE-MIM Communications Strategy has been produced and is available on the IODE website
(http://www.iode.org/index.php?option=com_oa&task=viewDocumentRecord&docID=3051)

Further discussions on this action item were held under Agenda Item 4.1.

Action	Agenda item		Responsibility	Deadline
No number assigned	4.2	<p>IODE WEB SITE AND MIM</p> <p><u>Overview page IODE National Coordinators</u></p> <p>Revisions as detailed in body of report</p> <p>The Group requested 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. The Group noted that the list display currently only provides telephone and fax numbers. A URL is only provided in the details page.</p> <p>The Group instructed the Secretariat to inform the MIM NCs that they should add their library web site and not general institutional web site.</p> <p><u>General Section / About Marine Information Management</u></p> <p>Revisions as detailed in body of report</p> <p><u>IODE homepage: General Information – main options</u></p> <p>Revisions as detailed in body of report</p> <p>The Group further recommended using more images in the MIM related pages.</p> <p>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.</p>	<p>Secretariat</p> <p>Secretariat</p> <p>Secretariat</p> <p>Secretariat</p> <p>Secretariat</p> <p>Members</p> <p>Secretariat (contractor)</p>	<p>Jan 08</p> <p>Oct 07</p> <p>Dec 07</p> <p>Jan 08</p> <p>Jan 08</p> <p>asap</p> <p>asap</p>

Action item 4.2

The Group was informed that the URL fields are displayed in the individual record view on the IODE website (e.g. http://www.iode.org/index.php?option=com_oe&task=viewMemberRecord&memberID=12772). It was noted that in many cases the National Coordinators for MIM have not provided their library URL in the URL field in OceanExpert.

The Group instructed its Chair to request the IODE National Coordinators for MIM to enter their Library URL in their individual OceanExpert record.

Action item 4.2 - General section/ About MIM

The revisions as detailed in the body of the report (GE-MIM- IX) have been completed.

Action item 4.2 IODE homepage: General Information – main options

The revisions on the IODE Home page: Main options have not yet been done and need to be discussed under agenda item 6.4. and 6.5. (OceanPortal and OceanTeacher).

The Group instructed the Chair to send an email to the National Coordinators for MIM to ask for photos on national marine information management activities to include on the IODE website.

The Group decided that instead of a logo, an annotation (“GE-MIM activity”) with a link to the GE-MIM page (from where users can link to the product or project) should be placed in the descriptive text of global activities where GE-MIM is actively involved in on the IODE website. This action was implemented immediately.

Action	Agenda item		Responsibility	Deadline
No number assigned	4.3	<p>Building links with other IM programmes</p> <p>4.3.1 IAMSLIC</p> <ul style="list-style-type: none"> • 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: (see body of report) • The Group requested Linda Pikula, to 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 of developing a joint IAMSLIC/IODE harvester of e- 	<p>Secretariat/IAMSLIC President</p> <p>L.Pikula</p> <p>OceanDocs SG</p> <p>GE-MIM members</p>	<p>Feb 08</p> <p>Oct 07</p> <p>Oct 07</p> <p>Oct 07</p>

		<p>repositories.</p> <ul style="list-style-type: none"> • The Group further recommended that a GE-MIM member should participate in the 2008 (Fiji) IAMS LIC meeting. 	Secretariat	Nov 07
		<p>4.3.2 ASFA</p> <ul style="list-style-type: none"> • 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. 	Secretariat	Oct 07
		<p>4.3.3 Others</p> <ul style="list-style-type: none"> • 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. 	Chair	Dec 07
			Secretariat	Dec 07

Action item 4.3.1

Further discussions on this item were held under Agenda Item 4.2.

Action item 4.3.2

Further discussions on this item were held under Agenda Item 4.2.

Action item 4.3.3.

Further discussions on this item were held under Agenda Item 4.2.

Action	Agenda item		Responsibility	Deadline
No number assigned	4.4	<p>Long-term strategic plan</p> <ul style="list-style-type: none"> 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. 	<p>Chair/ Group</p> <p>Secretariat</p>	<p>Jun 08</p> <p>Sep 08</p>

Ms Suzie Davies reported that a document on the MIM Strategic plan has been provided to the IODE Chair and IODE past-Chair at the IODE-XIX session in order to include this in the IOC Strategic plan for oceanographic data and information management. However, the final document (IOC Strategic plan for oceanographic data and information management (2008-2011), <http://hdl.handle.net/1834/2814>) focuses mainly on Data Management.

The Group decided to prepare the MIM strategic plan document, which should be published as an addendum to the existing IOC Document and could also be re-packaged for various communication and promotional MIM products.

Further discussions on this item were held under Agenda Item 6.8.

Mr Pissierssens noted that, whereas there exists a formal network of IODE NODCs, there is still not a similar formal network for marine information centres under the IODE umbrella. In addition he noted that MIM should take into consideration the evolution of the NODCs from centralized facilities to national distributed networks.

The Group noted that there exists a strong culture of resource sharing amongst marine libraries but **called** on the IODE National Coordinators for MIM to more pro-actively involve other marine information centres in their countries by disseminating information on, and encourage participation in IODE-MIM and GE-MIM initiatives.

Action	Agenda item		Responsibility	Deadline
no number	5.1	ODINs		

assigned	<p>5.1.1. ODINCARSA</p> <ul style="list-style-type: none"> • provide financial support for MIM course in Montevideo, Uruguay, November 2007 (US\$ 5000) • provide financial support for MIM course in Valparaiso, Chile, March/April 2008 • organize training course to ensure an overall similar level of technical expertise of the information professionals involved in the Project (approx. cost: US\$ 50000) • to create a programme to support a Digitization Project (Retrospective Digitization of documentation) to improve access and ensure long-term preservation and archiving • 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. • 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. <p>5.1.2 ODINAFRICA</p> <p>- The Group invited the Government of Flanders and IODE to continue its strong support to Africa through a possible fourth phase of ODINAFRICA</p> <p>5.1.3 ODINCINDIO</p> <p>- The Group recommended identifying resources to promote the importance of regional MIM networking and to provide capacity development assistance.</p> <p>5.1.4 ODINECET</p> <p>- The Group recommended to identify resources to assist institutions with basic computer infrastructure, software and training.</p>	<p>IODE</p> <p>IODE</p> <p>IODE</p> <p>IODE</p> <p>GE-MIM</p> <p>IODE</p> <p>ODINCARSA MIM Coord.</p> <p>IODE</p> <p>IODE</p> <p>IODE</p>	<p>Oct 07</p> <p>Feb 08</p> <p>Tbd</p> <p>2008</p> <p>Nov 07</p> <p>2008</p> <p>July 08</p> <p>2008</p> <p>2008</p> <p>2008</p>
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		<p>5.1.5 ODINWESTPAC</p> <ul style="list-style-type: none"> • 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). 	<p>J. Beattie</p> <p>Chair/ IODE</p> <p>Chair</p> <p>Chair/ Secretariat</p> <p>PIMRIS/ Chair</p> <p>Secretariat to contact R. Pepe</p> <p>PIMRIS/ Chair</p>	<p>Oct 07</p> <p>Jul 08</p> <p>2007</p> <p>Jul 08</p> <p>Oct 07</p> <p>Oct 07</p> <p>Nov 07</p>
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Action item 5.1.1.

Further discussions on this item were held under Agenda Item 5.1.

Action item 5.1.2.

The project proposal for the fourth phase of ODINAFRICA has been submitted to FUST (Flanders Unesco Science Trust Fund). The project proposal document is available on the IODE website (http://www.iode.org/index.php?option=com_oe&task=viewDocumentRecord&docID=2545)

Further discussions on this item were held under Agenda Item 5.1.

Action item 5.1.3.

No ODINCINDIO coordinator has been identified since Dr Nasser Zaker resigned. No ODINCINDIO activities have been organized since GE-MIM-9 and ODINCINDIO is currently inactive.

Further discussions on this item were held under Agenda Item 5.1.

Action item 5.1.4.

Activities of ODINECET are ongoing. Two training courses on Marine Information Management have been organised in 2007 and 2008.

Further discussions on this item were held under Agenda Item 5.1.

Action item 5.1.5.

No MIM related activities have been undertaken since GE-MIM-IX as the ODINWESTPAC Pilot Project has not started any activities yet.

All actions on ODINPIMRIS have been completed.

Further discussions on this item were held under Agenda Item 5.1.

Action	Agenda item		Responsibility	Deadline
no number assigned	5.2	OceanTeacher: MIM content <ul style="list-style-type: none">• 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	IODE SG-OT SG-OT	Jul 08 2008 Dec 07

		<p>find an alternative solution as soon as possible, bearing in mind the great interest in OT.</p> <ul style="list-style-type: none"> • 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. 	<p>MIM NCs and other experts</p> <p>L. Pikula</p> <p>OT editor Chief</p> <p>SG-OT</p> <p>OT editor MIM</p>	<p>Jul 08</p> <p>Nov 07</p> <p>Oct 07</p> <p>Continuous</p> <p>Continuous</p>
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Further discussions on this item were held under Agenda Item 6.4.

Action	Agenda item		Responsibility	Deadline
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no number assigned	5.3	Mentoring Programmes <ul style="list-style-type: none"> 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 IAMSLIC. The Group requested Ms Beattie to develop this concept in more detail and share it with the Group by email 	ODINs Chair Chair/IAMSLIC J. Beattie	2008 early 08 early 08 Oct 07
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The Group was informed that no funds have been set aside for mentoring but also no mechanism has been put in place for a mentoring programme.

Further discussions on this item were held under Agenda Item 5.2.

Action	Agenda item		Responsibility	Deadline
no number assigned	5.2	GE-MIM involvement in IODE Product Development 6.1.1 OceanExpert <ul style="list-style-type: none"> The Group requested the following revisions of the OceanExpert system (see body of report for details) The Group requested Dr Rommens to investigate the possibility to link OceanExpert with OceanDocs (and Google 	Secretariat W. Rommens	Nov 07 Nov 07

		Scholar?).	Secretariat	Feb 08
		<ul style="list-style-type: none"> 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. 		
		6.1.3 OceanPortal	Secretariat	Nov 07
		<ul style="list-style-type: none"> The Group identified a few issues that need attention and instructed the Secretariat to address these 	Secretariat./ ODIN coordinators	2008
		<ul style="list-style-type: none"> The Group recommended that a more proactive promotion campaign be organized for OceanPortal, especially in Africa and Central/South America 	Secretariat	2008
		6.1.4 Other products		
		<ul style="list-style-type: none"> 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 	L. Pikula/ GE-MIM members	Dec 07
		<ul style="list-style-type: none"> 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.”. 		

Action item 6.1.1

The Group was informed that most revisions as requested by GE-MIM-IX have been implemented.

The use of forced formats (e.g. for telephone numbers) is difficult to implement since there are a large number of different telephone number formats in use.

The action about the linking between OceanExpert and OceanDocs is still pending.

The Group instructed Mr Wouter Rommens and Mr Marc Goovaerts to further investigate this matter (deadline December 08).

Mr Peter Pissierssens reported that a groupware functionality for OceanExpert has been tested (ProjectPier) but is not fully functional yet. One of the observed problems is that the open source application is less intuitive than the commercial solution (Basecamp).

The use of forced formats (e.g. telephone numbers) in OceanExpert is not possible due to the various number of format types.

A number of revisions still need to be implemented.

- (i) ODIN regions should have their own “sites” allowing searching only for that region (e.g. AFRIDIR).
- (ii) Links to institution homepages: there are dead links. Need function to check the URLs not there yet
- (iii) 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.

Action item 6.1.3

Further discussions on this item were held under Agenda Item 6.5.

Action item 6.1.4

The Group was informed that a “federated search” functionality has been implemented in the IODE web site. This can search simultaneously in all object types of the site (people, events, web pages, document metadata).

The Group considered the need for a federated search tool, as a new service, that will be able to search in multiple products such as OceanExpert, OceanPortal, OceanDocs, OceanTeacher, OceanDataPortal and **requested** Mr Marc Goovaerts to investigate this matter further and set up a pilot service for further consideration.

The Group noted that the proposed brochure ‘towards e-science: why you need a marine library/information centre’ was now superseded by the MIM Strategy document. This item was closed without further action.

The Group was informed that Ms Linda Pikula is revising the document “Marine information centre development: an introductory manual” (IOC Manuals and Guidelines 23, <http://hdl.handle.net/1834/2751>).

The Group requested Ms Linda Pikula to distribute a draft to the Group by email for further comments. **The Group requested** Ms Linda Pikula to finalize the document for IODE-XX.

Action	Agenda item		Responsibility	Deadline
no number assigned	6.2	OceanDocs <ul style="list-style-type: none">The Group decided that the current membership of the OceanDocs groupware site would constitute the	SG-OceanDocs	Sep 07

		<p>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.</p> <ul style="list-style-type: none"> • 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 IAMS LIC and IOC on the terms of 	<p>ODINAFRICA PSC</p> <p>Ms Keita</p> <p>Secretariat</p> <p>Secretariat</p> <p>Chair SG-OceanDocs</p> <p>SG-OceanDocs</p> <p>SG-OceanDocs</p>	<p>Next session</p> <p>Oct 07</p> <p>Oct 07</p> <p>Oct 07</p> <p>Nov 07</p> <p>Oct 07</p> <p>Oct 07</p>
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		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 IAMS LIC for further discussion .	SG- OceanDocs	Asap
		<ul style="list-style-type: none"> 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. 	Chair	Jan 08
		<ul style="list-style-type: none"> 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. 	SG- OceanDocs	Asap
		<ul style="list-style-type: none"> 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. 	M. Goovaerts	continuous

Further discussions on this item were held under Agenda Item 6.2.

Action	Agenda item		Responsibility	Deadline
no number assigned	6.3	Integrated Library Management System software and Library Holding databases <ul style="list-style-type: none"> The Group decided that ILMS selection criteria need to be defined. 		

		<p>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].</p>	Group	Oct 07
		<ul style="list-style-type: none"> 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. 	Group	Oct 07
		<ul style="list-style-type: none"> The Group noted the need to then consult with marine librarians in IOC Member States to find out about their requirements. 	Group	Nov 07
			n/A	
		<ul style="list-style-type: none"> The Group noted that migration from INMAGIC to a new solution should be foreseen in 2008. 		
		<ul style="list-style-type: none"> 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. 	Chair	Oct 07

Further discussions on this item were held under Agenda Item 6.11.

Action	Agenda item		Responsibility	Deadline
no number assigned	10	<p>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</p>	Patricia Muñoz	Nov 08

The report of Ms Patricia Munoz will be made available for comment by email by end of November 2008.

3.2 IODE –XIX AND IODE OFFICERS MEETING RELEVANT TO GE-MIM

Ms Suzie Davies reported on IODE-XIX and items related to Marine Information Management. She noted that items that had been raised at both IODE-XIX and the IODE Officers Meeting (2007) had been incorporated into the agenda for GE-MIM-X.

Ms Linda Pikula reported that she had attended the IODE Officers Meeting (November 2007), deputizing for Ms Davies. Ms Linda Pikula informed the Group that the GE-MIM activities received a great deal of appreciation during the Officers Meeting. The IODE Officers approved the organization of the ODIN-PIMRIS workshop, held at the IOC Project Office for IODE in May 2008.

The IODE Officers approved Recommendation MIM-IX.1 (Terms of Reference of the IODE National Coordinators for Marine Information Management) and requested the Secretariat to inform IOC Member States of the new Terms of Reference.

The IODE Officers stressed the need for MIM experts to be involved in the OceanDataPortal (ODP) pilot project and invited the GE-MIM to nominate a suitable expert for the ODP pilot project. In addition the Officers invited the GE-MIM to identify a marine information centre to become a data/information provider.

The IODE Officers stressed the need for MIM experts to be involved in atlas development projects and called on the Caribbean Marine Atlas project, to take the necessary action (further discusses in Agenda item 6.6).

The IODE Officers called on ODIN projects to set aside some funds for mentoring.

Taking into consideration the need for better integration of data and information, the IODE Officers requested the GE-MIM Chair and IODE Co-Chair (Mr Greg Reed) to investigate the suitability of the ASFA Thesaurus as a keyword authority list to be used for data discovery and metadata description (further discussed under Agenda item 4.2.2).

The IODE Officers recommended that IAMSLIC and IOC/IODE agree on geographic and subject scope between OceanDocs and Aquatic Commons (further discussed under Agenda item 6.2 (Strategy OceanDocs)).

The IODE Officers noted that OceanDocs might also wish to submit a proposal to the ASFA Advisory Board for digitizing historical documents for some of its ODINs. The IODE Officers recommended that OceanDocs should expand its services to include scanning services (further discussed under Agenda item 6.2 (Strategy OceanDocs)).

The IODE Officers welcomed the progress made by the ODINECET project and allocated funding for ODINECET in the 2008-2009 work plan and budget.

The IODE Officers welcomed the proposal submitted by the Chair of GE-MIM and the PIMRIS (Pacific Islands Marine Resources Information System) Coordinator to establish a sub-regional ODIN-Pacific Islands project. Initially this project will focus on marine information management capacity building.

The IODE Officers, taking into consideration the importance of the IODE/MIM programme, recommended that the Chair of GE-MIM should be added to the IOC D&IM Management

Advisory Group, hereby referring to the IOC Manuals and Guides N.49. The GE-MIM Chair is currently member of this Group.

The GE-MIM recalled that out of the 7 ODINs, three had been initiated by marine information managers (ODINAFRICA, ODINECET, ODIN-PIMRIS).

4. COMMUNICATIONS

The Group recalled that a draft MIM communication strategy document has been prepared and circulated. The Group noted that the goal of the Communication Strategy is “to provide communication channels and tools which promote effective and efficient exchange of factual and intellectual information among IOC stakeholders through the MIM activities of IODE”. IOC stakeholders include member states, other organizations and scientists.

The Group agreed that a working group will review the draft and circulate their comments to the GE-MIM Group by email for further discussion and approval. This working group consists of Ms Linda Noble, Ms Patricia Munoz and Ms Pauline Simpson.

4.1 WITHIN IODE

4.1.1 IODE GROUPS OF EXPERTS

The Group instructed the Secretariat to set up a GE-MIM Groupware site in order to facilitate monitoring of progress with the implementation of the GE-MIM work plan. **The Group further instructed** the Secretariat to create milestones for all GE-MIM-X action items. **The Group requested** its Members to upload drafts of documents that require discussion in the Groupware site, as well as relevant presentations and other documents that are not ready for public distribution (Deadline (groupware site): November 2008).

4.1.2 MIM NATIONAL COORDINATORS

The Group recalled that the National Coordinators for Marine Information Management can be contacted by email through the IODE web site and that this tool should be used to maintain active and regular contact with the National Coordinators.

The Group recalled that it had revised the terms of reference and prepared selection criteria, and that the Chair of GE-MIM has been instructed to inform all National Coordinators of these revisions.

The Group agreed that the National MIM report should provide a snapshot of the MIM status in a country in the intersessional period before the IODE Committee Session and that the survey should also provide quantitative data about the status of the Marine Information Centre in a country. The data should enable IODE to produce key statistics over several years. The survey should target both the host institution of the National Coordinator for Marine Information Management as well as other related Marine Information Centres in the country.

The Group instructed that the Secretariat and Chair develop the template further, based upon the suggestions by the Group. The revised version will be further discussed and agreed upon by email by the Group.

4.1.3 IOC D&IM MANAGEMENT ADVISORY GROUP

The Group recommended that the GE-MIM Chair should also be a member of the IDIMAG group

(http://www.iode.org/index.php?option=com_content&task=view&id=112&Itemid=130).

Current MIM members of this group include Ms Maria Kalenchits, Ms Olga Akimova, Ms Arame Keita as representatives of ODINs.

4.1.4 IODE WEBSITE: ABOUT MARINE INFORMATION MANAGEMENT

The “About Marine Information Management “ section of the IODE website (http://www.iode.org/index.php?option=com_content&task=view&id=4&Itemid=35) was reviewed by Ms Pauline Simpson and Ms Suzie Davies. They suggested to implement the following changes to the page.

- Adding a link from the “About Information Management” page to the “GE-MIM” page.
- Adding a link to the “GE-MIM” page from the paragraph “5. 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).
- Add ASFA in the list of MIM projects.

The Group instructed the Secretariat to make the necessary changes to the IODE website according to recommendations.

4.2 COMMUNICATION WITH OTHER AGENCIES

4.2.1 IOC-IAMSLIC MEMORANDUM OF UNDERSTANDING

The Group was informed that the Chair, Ms Suzie Davies, had developed a presentation on the Memorandum of Understanding (MOU), which was presented to the 2007 IAMSLIC Conference (Sarasota, Florida, USA) by Ms Linda Pikula.

The IAMSLIC Executive Board had agreed with the principle of a new MOU between IOC and IAMSLIC. The IAMSLIC business meeting subsequently supported this principle.

A joint IAMSLIC/GE-MIM task force was created in October 2007 involving Ms Barb Butler, Mr Steve Watkins, Ms Beth Avery, Mr Jan Haspeslagh, Mr Fred Merceur, Ms Linda Pikula, Ms Suzie Davies and Mr Peter Pissierssens, in order to draft the MOU.

Ms Suzie Davies presented the GE-MIM MOU priority issues at the 2008 IAMSLIC Conference (Suva, Fiji). Priorities for IAMSLIC include: Networking and Capacity Building within the Pacific Islands region, outreach, training, sharing technical expertise.

The Group decided that the new MOU should have a general introductory part, which will be similar to the previous MOU and an annex that outlines, in detail, the agreed activities for collaboration.

The Group identified the following activities for collaboration:

- OceanPortal: joint ownership and quality control
- Avano e-repository harvester: joint funding/support;
- Organization of sabbaticals, visiting experts, internships, twinning programmes (through IODE Project Office, ODIN partner institutions, IAMSLIC member institutions);
- OceanExpert: use of OceanExpert by IAMSLIC for membership record management;
- OceanTeacher: attracting content providers and establishing a content review team inclusion of or linking to IAMSLIC Conference papers in OceanTeacher;
- Support to ODIN partner countries (IAMSLIC membership fees);
- Hosting (server space) of IAMSLIC products by IOC Project Office for IODE;

The Group requested that a review of achieved results should be included in the Terms of Reference of the MOU.

The Group requested the GE-MIM Chair and past Chair to prepare the draft MOU by January 2009 for consideration by the joint IAMSLIC/GE-MIM task force (March 2009), by UNESCO's legal affairs department and finalization (April 2009) and the IODE-XX Session (May 2009).

The Group recommended that the MOU be signed by both parties either prior to, or during the 2009 IAMSLIC Conference that will be hosted by VLIZ and the IOC Project Office for IODE (28 September-1 October 2009).

4.2.2 IOC-ASFA

Mr Peter Pissierssens informed the Group that, whereas all IOC publications used to be printed on paper and mailed to Member States, publications are now mostly published in electronic format only and users are required to download them from the IOC web sites. As such there is a risk that Member States are not fully aware of the publications. He reported further that there is currently no formal arrangement for the inclusion of IOC publications in ASFA. He further reported that IODE documents are added to the OceanDocs e-repository by the IOC Project Office for IODE.

The Group called on the IOC Secretariat to ensure that IOC publications are included in ASFA in a timely manner.

The Group recalled that it recommended that the data community to use the ASFA Thesaurus for enhancing data discovery and metadata description but recognized that the number of terms in the Thesaurus (>6000) is too high to be practical.

The Group recommended to use a shortened version (broad categories, top level/broad terms) of the ASFA thesaurus and to use it across all IOC Products.

Further discussions on this item were held under Agenda Item 3.1 and 6.11.

4.2.3 *POGO/CoML*

The Group recommended the establishing of a discovery service retrieving data sets and documents in the OceanDataPortal and Avano. In this regard **the Group requested** that this matter be further discussed with the SG-ODP.

4.2.4 *OTHER AGENCIES*

The Group recalled that the Secretariat had attempted closer collaboration within UNESCO (Communication and Information department) as well as UNEP but that this had not resulted in concrete cooperation.

The Group instructed its members to inform other agencies, programmes and projects of MIM and GE-MIM activities. This will be of particular importance at the regional level.

5. CAPACITY BUILDING

5.1 ODINs

5.1.1 *MIM SURVEY*

The GEMIM chair, Ms Suzie Davies, undertook a MIM survey for ODINs in September 2008. The survey questions are included as Appendix 1. The following information was requested by the survey:

1. What do you think are the 3 most important issues for marine information management / marine libraries in your country at this time?
2. How can the marine information management community better communicate and share our resources and knowledge?
3. What communication strategies could GE-MIM and MIM National Coordinators establish or adapt to strengthen communications?
4. What specific projects can GE-MIM and MIM National Coordinators work together on?
5. What do you think will be the 3 most important issues for marine information management over the next 5 years?
6. What do you think will be the biggest threats to marine information management over the next 5 years (what keeps you awake at night)?
7. What do you think are the biggest opportunities for marine information management over the next 5 years?
8. What do you think should be the MIM priorities for GE-MIM over the next 5 years?
9. The IOC (through GE-MIM) is currently discussing a new Memorandum of Understanding with IAMSLIC. Please list 3 major priorities, which you would like to see IAMSLIC & GE-MIM include in a new MOU.

10. Do you have any other general comments?

The survey was sent out to all IODE National Coordinators for MIM, all MIM coordinators for ODINAFRICA, ODINCARSA, ODINECET, ODIN-PIMRIS, ODINWESTPAC, ODINBLACKSEA and all IAMSILIC Members.

Replies were received from ODINAFRICA, ODINCARSA, ODINECET and ODIN-PIMRIS. The report contains information about work being done by ODINs, achievements, priorities, suggestions.

A detailed report of the survey and outcomes is available on the IODE website (http://www.iode.org/index.php?option=com_oe&task=viewDocumentRecord&docID=3052)

5.1.2 *ODINCARSA*

Ms Patricia Munoz reported on ODINCARSA MIM activities. The full report is available on the IODE website (http://www.iode.org/index.php?option=com_oe&task=viewDocumentRecord&docID=3019)

She reported that ODINCARSA MIM activities are focused on the following strategic main lines of action:

- Web based Discussion forum for quality control and ocean modelling experiences.
- ICAM-Teacher Development
- E-Repository/Ocean Docs for Latin America.
- Integrated Library Management System (ILMS) software application (open source) for libraries in the ODINCARSA region.
- To improve and promote Portal Oceanic
- Preparation of Project Proposals to ISDR, START, PROVENTION, JCOMM, CPPS.
- ODINCARSA Coordination and web site maintenance.
- Newsletters, Brochures and Promotion

In terms of achievements Ms Patricia Munoz reported that in 2008 the expected amount of validated contents to the OceanDocs e-repository have been accomplished by Ms Gabriela Silvoni (Argentina) and Ms Andrea Cristiani (Uruguay). A coordination and training meeting for OceanDocs was organized in Panama in April 2008. This workshop allowed recruiting new libraries from Panama and the Caribbean region to contribute to OceanDocs. In addition some basic agreements were assumed about the development of a regional working group on MIM in the Caribbean region. Ms Clara Ramirez (Mexico) and Ms Emma Fonseca (Cuba) joined the OceanDocs project in ODINCARSA. Concerning IAMSILIC membership, she reported that there are currently 15 memberships in the Caribbean and Latin American libraries.

There are currently 9 institutions from 6 countries involved in the OceanDocs Latino project. The repository was operational from 2007 onwards and currently contains 648 records (October 2008). A major task is the external validation and control of the submitted documents in the repository. IODE contracts the payments by revenue, control and validation of documents issued in OCEANDocs.

Ms Patricia Munoz summarized the outcomes of a SWOT analysis on the OceanDocs Latino e-repository (<http://iodeweb1.vliz.be/odin/handle/1834/1338>).

Strengths include:

- OceanDocs as a product of the ODINCARSA network enabling progress due to participation of the members of the network.
- OceanDocs is operational, with collections of 6 countries, corresponding mainly to government documents from Oceanographic and Fisheries departments.
- Financial support from IODE and the Government of Flanders (Belgium) and technical support from Mr Marc Goovaerts (UHasselt, Belgium).
- A group of trained professionals to conduct further training in the region.
- OceanDocs increases visibility of research outcomes of research institutions in the region.
- Support from IODE with training on e-repositories.
- Most of the librarians in the marine libraries in the region have the technical and professional skills to participate in OceanDocs Latino.

Opportunities include:

- Increasing awareness about open access to scientific and technical publications
- New institutions can participate in OceanDocs Latino.
- Increase in number of publications in OceanDocs Latino
- The interest shown by institutions for OceanDocs Latino
- Future implementation of “a federated network of repositories of Institutional scientific documentation in Latin America” with the participation of Mexico, Brazil, Colombia, Uruguay and Chile, and supported by the Inter-American Development Bank (IDB) and scientific and governmental agencies.

Weaknesses include:

- Poor communication between ODINCARSA coordination and OceanDocs coordination.
- Poor communication and interaction between the ODINCARSA Coordination and OCEANDocs Latino coordination.
- Limited funds for training courses and outreach work.
- Due to limited funds for training courses and outreach work, there is a need for a better control on the commitments made by institutions or individuals to participate in OCEANDocs Latino.
- Considering the participant’s commitments, there is a need to reinforce criteria for personnel selection and follow up for future training.
- Limited autonomy for the Coordination OCEANDocs Latino to manage funds.
- Different levels of commitment among OceanDocs Latino members

- Lack of control over the quality and content of files that are entered into OCEANDocs Latino depart from the same institutions.
- The commitment between institutions and IODE (participation and membership of OceanDocs, including OceanDocs training of people) is not binding.

Threats include:

- Lack of growth of the project causing a closure of the project.
- Limited number of new institutions participating in OceanDocs Latino.
- Partner institutions leaving the project
- Overlap of activities with other international marine related organizations
- Decreasing input
- Preservation
- Costs
- Long-term sustainability of repositories

Ms Patricia Munoz suggested a number of solutions for the management of OceanDocs and long-term sustainability of the project. The roles and responsibilities about OceanDocs Latino within the ODINCARSA should be defined. There is need to review the policy and regulations of the OceanDocs Latino e-repository. A strategic plan for OceanDocs Latino should be drafted including an activity table and costs. IODE and ODINCARSA should urge institutions involved in OceanDocs Latino to fulfill their commitments. Initiatives should be taken to promote and use archiving inside marine information centres. Funding should be identified for validation work contracts and support of digitalization projects in Latin America. IODE and ODINCARSA should also search for agreements of science and technology. The Humboldt Current Large Marine Ecosystem (LME) project offers a channel to obtain funding for a Training course on OceanDocs for Chilean and Latin American librarians in order to establish a collection in OceanDocs Latino.

The Group requested the OceanDocs Latino coordinator, Ms Patricia Munoz, to prepare a OceanDocs Statistics document.

The Group further recommended that the OceanDocs Latino coordinator should communicate this document to heads of institutions within ODINCARSA.

In terms of the development of an ILMS for ODINCARSA, Ms Patricia Munoz mentioned that ILMS solutions for libraries should work in a broader framework, integrated in a general information management policy and including e-repositories and the ASFA database. A prerequisite is that the system should provide services such as OPAC/WEB, interlibrary loan services, statistics, ILMS functions, e-repository functions, metadata exchange and technical support.

5.1.3 *ODINAFRICA*

Ms Arame Keita informed the Group on MIM activities (http://www.iode.org/index.php?option=com_oe&task=viewDocumentRecord&docID=3020) within the framework of the ODINAFRICA-III (2005-2008). ODINAFRICA-III ended in July 2008. A final planning and review workshop of the project was held in Mombasa, Kenya

in July 2008. Marine Information Managers from Kenya, Senegal, Tanzania and Togo attended this meeting together with members of the regional group of IAMSRLIC (AFRIAMSRLIC) and some ASFA partners in Africa (Ghana, Uganda). These meetings were preceded by another meeting of Marine Information Managers from ODINAFRICA, ASFA African partners and AFRIAMSRLIC members on the 12th of July 2008 in Mombasa, Kenya. During this meeting an ODINAFRICA IV project proposal was drafted and sent for approval in September 2008 (Integrated Data and Information Products and Services for the Management of Oceans and Coastal Zones in Africa (ODINAFRICA-IV), http://www.iode.org/index.php?option=com_oe&task=viewDocumentRecord&docID=2545).

Ms Arame Keita reported that most of the MIM activities planned within the framework of ODINAFRICA-III have been developed, except for the further development of AFRILIB and its assessment. This was due to the issue of replacement of the Inmagic software. There were many problems to correct INMAGIC. Moving from INMAGIC to another platform will have to be taken with care. This issue is further discussed in Agenda item 6.11.

Ms Arame Keita summarized the MIM activities in ODINAFRICA-III as follows:

- i. Further development of local library catalogues with Inmagic software.
- ii. Further development of OceanDocs Africa (input increased).
- iii. Development of a Hydrographic, Meteorological, oceanographic Organizations database in Africa.
- iv. Organisation of a meeting for ODINAFRICA MIM with African ASFA partners and AFRIAMSRLIC.
- v. Participation of ODINAFRICA Marine Information Managers to the 7th ODINAFRICA workshop and 3rd Symposium (Communication from MIM) and some new ASFA partners (Uganda and Ghana).
- vi. Participation of ODINAFRICA MIM (Kenya) to ASFA board meeting in September 2008 Bergen, Norway.
- vii. Participation of ODINAFRICA MIM (Tanzania) to IAMSRLIC meeting in October 2008 in Suva, Fiji.

In terms of promotion, communications and resources sharing, following activities have been organized during ODINAFRICA-III:

- i. Development of document request system through ODINAFRICA IM listserv: odinafrica-im@sympa.iode.org
- ii. Development Chapter on information management in ODINAFRICA Book project.
- iii. Development of newsletter, Poster, leaflet, newsletter from IM (Mauritania, Tanzania, Senegal).
- iv. Development and updating of library web pages within NODC websites (after the assessment of web presence of IM in ODINAFRICA country websites was done)
- v. Development Chapter on information management in ODINAFRICA Book project in order to enhance the visibility of the information activities.
- vi. Development and updating of libraries web pages within NODC websites (after the assessment of web presence of IM in ODINAFRICA country websites was done).

Ms Arame Keita reported about MIM proposed activities, products and services in ODINAFRICA-IV project proposal. She referred to the ODINAFRICA-IV proposal (http://www.iode.org/index.php?option=com_oe&task=viewDocumentRecord&docID=2545)

Main activities will include the maintenance, upgrading and further development of existing products such as Afrilib, Oceandocs Africa and Afridir but also involvement of Marine Information Managers in products of the Data Management community (African OceanPortal, African Marine Atlas). The directories, library catalogues and other information sources will be updated, maintained and made available online in order to act as information sources for the portals.

Ms Arame Keita informed the Group that in terms of the development of an ILMS (Integrated library management system) the focus will be on the upgrading and replacement of the software, providing open access to scientific output from ODINAFRICA, and coordination and integration of existing tools. Exchange procedures and standards between the different products will be developed to ensure easy access. OceanDocs Africa will be improved with new partners recruited and trained to ensure broader coverage.

Ms Arame Keita reported that in terms of the development of web-based information services several new products will be developed:

- i. News services and applications enabling the linkage of publications to related datasets in NODCs
- ii. Institutional repositories to address local needs and providing access to multimedia resources besides scientific publications.
- iii. Electronic journals: the development of journal view will be extended to cover other institutions that produce their own publications.
- iv. Training in required field in information management will be organized.

5.1.4 *ODINECET*

The Group was informed that since GE-MIM-IX two MIM training courses had been organized benefiting this region:

- ODINECET Training on Marine Information Management (19-23 November 2007, IOC Project Office for IODE, Belgium)
- ODINECET Training on Marine Information Management (3-7 November 2008, IOC Project Office for IODE, Belgium)

Ms Suzie Davies summarized recent ODINECET activities, hereby referring to the ODINECET report, which was provided by Ms Olga Akimova (http://www.iode.org/index.php?option=com_oe&task=viewDocumentRecord&docID=2761)

Major achievements of ODINECET since GE-MIM-IX include:

- i. Installation of an e-repository at the Institute of Biology of the Southern Seas (IBSS, Ukraine) in July 2007 (<http://repository.ibss.org.ua/dspace/>). The e-repository included over 500 inputs in November 2008.
- ii. An intermediate level training was organized in 2007 (ODINECET Marine Information Management Training Course (19-23 November, IOC Project Office for IODE, Belgium)
- iii. Establishment of the e-repository for ODINECET CEEMar (<http://www.ceemar.org>). This e-repository is hosted by IBSS (Ukraine). Nine research institutions from three countries (Poland, Russian federation and Ukraine) are involved.
- iv. Organisation of a regional training course at IBSS (Ukraine) with participation of 5 librarians from 4 Ukrainian libraries (14-16 July 2008).
- v. Organisation of an ODINECET Training in Nov 2008 (4-7 Nov 2008)

Priorities for ODINECET for the next 2 years include:

- i. Further development of CEEMAR and invitation of other institutes in the region to the project.
- ii. Further development of the ODINECET Union Catalogue of Serials project, with involvement of new partners and input of new data and considering supplying the catalogue with foreign periodical titles being stored in the library.
- iii. There is a need for continuous professional development. Regional training on this can be provided at regional training centres (reference is made to the OceanTeacher Academy proposal). Train-the-trainer activities should be organized in order to provide the local training. These trainers can be formed through training or internships at the IOC Project Office for IODE in Ostend, Belgium.
- iv. Promotion of OceanExpert within ODINECET.

Ms Suzie Davies reported that there is a need to digitize rare books on marine science in the ODINECET region. This is an activity which can be included in the new MOU with IAMS LIC.

5.1.5 *ODIN-PIMRIS*

Ms Suzie Davies presented a report by Ms Maria Kalenchits on ODIN-PIMRIS activities. Reference is made to the detailed report in the Working Documents (http://www.iode.org/index.php?option=com_oa&task=viewDocumentRecord&docID=3022)

The ODIN-PIMRIS Pilot Project was officially endorsed in 2008 and a small scale project proposal for ODIN-PIMRIS was approved by the Government of Flanders .

The first activities of ODIN-PIMRIS included:

- i. A first Training for Trainers and Planning workshop was organized in May 2008 at the IOC Project Office for IODE.
- ii. A project meeting which was organized in conjunction with the IAMS LIC conference in Fiji in September 2008. 19 project partners attended this meeting.

Ms Maria Kalenchits listed a number of issues regarding MIM in the ODIN-PIMRIS region:

- i. High staff turnover in the region which impedes communication in the ODIN-PIMRIS network
- ii. Lack of professional staff in fisheries libraries. This is mainly caused by the lack of recognition of the importance of MIM in a country and at the institutional level
- iii. Insufficient funding which limits capacity building efforts in the region

A number of activities will be organized in order to address these problems. These include:

- i. An information session by the ODIN-PIMRIS Project coordinator at the heads of Fisheries meeting in New Caledonia.

All members of the PIMRIS steering group have short-term contracts (3-4 years) and this might be a consideration for long-term sustainability of the network.

The Group requested to the coordinator of ODIN-PIMRIS, Ms Maria Kalenchits, to prepare a letter (Statement of support) addressed to heads of fisheries and marine science departments of governments in the region, requesting support for ODINPIMRIS activities.

Ms Suzie Davies reported that the European Union is currently funding activities in the Pacific region. There might be opportunities to search EU funds for MIM activities in this regard. This needs to be investigated further.

The Group requested the coordinator of ODIN-PIMRIS, Ms Maria Kalenchits, to investigate funding opportunities by the EU.

5.1.6 ODINCINDIO

The group instructed the GEMIM Chair to contact the MIM community in the ODINCINDIO region (including former ODINCINDIO trainees) to inquire about their opinion and ideas for future activities of ODINCINDIO and what IODE can do for them, considering the upcoming IODE meeting in China which may provide an opportunity for renewed support and action.

5.1.7 ODINWESTPAC

The Group noted that the MIM community in the WESTPAC region has not yet been involved in the ODINWESTPAC pilot project.

The Group requested Ms Linda Noble to compile a list of ASFA partners and collaborating centres in the ODINWESTPAC region.

The Group requested the GEMIM Chair to contact the ASFA partners and collaborating centres in the ODINWESTPAC region in order to encourage them to consider the MIM aspect of ODIN.

5.2 MENTORING PROGRAMS AND INTERNSHIPS

Ms Suzie Davies reported that a number of Australian marine libraries will submit a proposal to the Australian government for a pilot project for twinning programs between Australian marine libraries and libraries in the region. This item was further discussed under IAMS LIC MOU.

5.3 OCEANTEACHER: MIM CONTENT

This item is further discussed in **Agenda item 6.4.**

6. IODE/MIM PRODUCTS & TOOLS

6.1 GE-MIM INVOLVEMENT IN IODE PRODUCT DEVELOPMENT

Ms Suzie Davies reported that the issue of translation of IODE documents has been raised by ODINAFRICA and ODINCARSA. It is not feasible to translate all IODE documents considering the substantial cost of translation (about 40 Euro per page per language).

The Group recommended translation of documents. Document translation should be based upon the following criteria: longevity, target audience and size of the document (e.g. IOC Manuals and Guides). If a new product is produced by GE-MIM, translation should be taken in consideration.

The Group recommended that ODIN networks should decide which documents are relevant for translation.

The Group recommended that only the executive summary should be translated into multiple languages while the body text should be in English or the primary working language of the target audience.

6.2 E-REPOSITORIES

Mr Marc Goovaerts reported on the current status of the OceanDocs project. He reported that there is a technical evolution in DSpace software in order to cope with new requirements and requests for updates. External experts are needed (e.g. Mr Denis Slypetskii, IBSS, Ukraine) to implement these changes. These experts are not always available. Several upgrades are planned the upcoming months. It would therefore be better to wait with the implementation of new features until these updates have been implemented.

The OceanDocs project faces a number of problems on the organizational level. OceanDocs, which was initially set up for ODINAFRICA, was opened to other partners after set-up (e.g. ODINCARSA). OceanDocs is therefore evolving towards a network of repositories. At the same time other organizations (e.g. NIO, Goa, India) are using different repository software. A training for trainers was organized in 2007 (E-repository training course, 23-28 April 2007, Ostend, Belgium) in order to cope with this. This training was attended by participants from ODINAFRICA, ODINCINDIO, ODINECET and ODINCARSA. A steering group consisting of trainees was set up after the training course. The group has however not yet taken up their responsibilities as a steering committee. Reports and follow-up on activities do not appear yet. A groupware site with documents for the steering group is available but currently underused. Communication about new evolutions in the software and new partners could be improved.

Growth of OceanDocs Africa has been hampered due to turnover of staff. Regional coordination of OceanDocs Latino and quality control of the submitted records is good but communication with IOC and the OceanDocs coordinator is still low. The ODINECET network makes use of the CEEMAR (Central and Eastern Europe Marine Repository). CEEMAR was set up on the bases of DSpace software modified within the OceanDocs project. The IBSS Institutional Repository (Institute of Biology of the Southern Seas) was set up separately on the basis of DSpace software modified within the OceanDocs project. ODIN-PIMRIS is currently working on the development of a policy for an electronic repository.

The Group discussed the need for an ODIN harvester. The custom Google search tool can be a solution to achieve this.

The Group urged the OceanDocs Steering Group to identify a Chair and requests the Steering group to write a strategy and work plan to be presented at the next IODE Committee session. The Group suggested to the OceanDocs Steering Group to consider the OceanDocs General Policy Document as a start to develop a strategy for OceanDocs. This Strategy should highlight and include issues such as: communication among the Steering Group, coordination of activities, incorporation of new groups, identifies a way forward, clarification of membership of the Steering Group, geographic scope. The OceanDocs Steering group should also discuss issues such as digitizing historical documents and scanning services.

The Group recommended that a document with statistics on the use of OceanDocs should be communicated to the OceanDocs steering group for further communication to heads of institutions within all ODINs that have e-repositories in order to show the success of the project and increase the number of participating institutions.

The group requested that the IOC logo and a link to the statistical webpage be added to the OceanDocs webpage.

The Group requested Mr Marc Goovaerts to contact Mr Frederic Merceur about the long term commitments of IFREMER regarding Avano and report back to GE-MIM.

The group decided to approach IAMSLIC under the new MOU for joint funding and support of Avano (see Agenda item 4.2).

The Group invited Ms Arame Keita to take on the responsibility of interim coordination and management of OceanDocs Africa until new arrangements are in place within the framework of ODINAFRICA-4 (deadline: now)

6.3 OCEANEXPERT

The Group instructed to further investigate the linking of OceanExpert and OceanDocs.

The Group instructed to implement a number of revisions in OceanExpert.

1. ODIN regions should have their own “sites” allowing searching only for that region (e.g. AFRIDIR).
2. URL checker for dead links to institution homepages
3. Sending of validation requests for records of ODINs to the ODIN regional coordinator (MIM).

6.4 OCEANTEACHER

Ms Linda Pikula produced a list with areas to be developed in OceanTeacher. This document is available on the IODE website

(http://www.iode.org/index.php?option=com_oe&task=viewDocumentRecord&docID=2752)

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There is a need to include a scope note for basic and advanced courses in OceanTeacher.

Basic courses are survey courses of fundamental principles in information management. These courses assume current familiarity with marine information, but provide the first instance of definitions and working principles that have not been developed in previous undergraduate/graduate education.

Advanced courses are in-depth courses that go beyond the introductory level provided in the basic course. The duration of these advanced courses will be determined by the specific requirements and background of the participants.

Specialized courses are focusing on specialised topics and aimed at developing specialised skills and products at the advanced level. These courses may include topics such as: institutional repositories, GIS for librarians, promoting the role of knowledge management of librarians in organizations, digitizing materials, copyright and repositories, statistics

A proposal for the OceanTeacher Training Academy (Training Academy for the IODE Ocean Data and Information Networks) has been submitted to the Government of Flanders for approval. The objective of the Training Academy will be to establish a facility that will provide an annual teaching programme of courses related to oceanographic data and information management and the development of related products and services that will contribute to the sustainable management of oceans and coastal areas in Africa and other regions.

The Training Academy will contribute to:

- Building high quality and up-to-date expertise in oceanographic data and information management and exchange in new national oceanographic data centres (NODCs) and related facilities;
- Keeping staff in existing national oceanographic data centres (NODCs), marine information centres and related facilities up-to-date with the latest methodological and technical developments (continuous professional development);
- Creating awareness for the importance of oceanographic data management and marine information management with university students (marine environmental studies) to ensure that they will contribute quality data to data centres during their future career;
- Creating awareness for the importance of oceanographic data management with experts in oceanography and related disciplines.

The above objectives will be addressed to Africa as a matter of priority and to other regions as far as possible.

The new Memorandum of Understanding (MOU) between IOC/IAMSLIC stressed the need to share expertise on Marine Information Management. Sabbaticals or internships might be an opportunity to write new content for OceanTeacher, as part of the IOC/IAMSLIC MOU.

The Group decided that the top level MIM section in OceanTeacher should be named “Marine Information Management” but that a scope note should be added to the MIM page in OceanTeacher to explain both core information principles and specific marine applications.

The group decided to approach IAMSLIC under the new MOU (see 4.2) in order to cooperate with IAMSLIC on the development of MIM content for OceanTeacher.

The Group decided to establish a review team for MIM content in OceanTeacher. Candidates for the review team can be: Sophia Goulala, Jan Haspeslagh, Pauline Simpson, Ganeshan Rao, Paul Nieuwenhuysen, Cathy Norton, Janice Beattie, Peter Brugerman, Steve Watkins, Marc Goovaerts, Murari Tapaswi, Richard Pepe. Those people will be asked to review submitted papers.

The Group decided to include a page explaining the “production cycle” of OT documents (Secretariat, deadline December 2008) in OceanTeacher.

The Group decided to create a link to the IAMSLIC conference proceedings from OT (OT MIM editor, deadline December 2008).

6.5 OCEANPORTAL

The Group confirmed that OceanPortal is an important research tool but the maintenance posed some difficulties.

The group decided to approach IAMSLIC under the new MOU (Agenda item 4.2) in order to cooperate with IAMSLIC for joint management of OceanPortal.

6.6 COASTAL ATLASES

Ms Linda Pikula reported that she is involved in the Caribbean Marine Atlas (CMA) project. She attended the CMA workshop in Trinidad in April 2008 where she made 2 presentations on historical information gathering. She reported that Marine Information Managers from the CMA region could assist in the CMA project by providing lists with historical data from their region. She noted that some training might be required in order to allow local staff to fulfill this task. Ms Linda Pikula stated that data managers should communicate with marine information managers about their needs and requirements in marine atlas projects.

Ms Suzie Davies reported that the Barrier Reef Atlas Project recently has started in Australia. Librarians are actively involved in this project. Bibliographical records will be included in the atlas and will be linked to geographic locations.

The Group noted that it is encouraging that MIM coordinators are more and more involved in the CMA project in order to help identify datasets.

The Group invited Ms Pauline Simpson to represent GE-MIM in CMA with the view of providing guidance regarding the role of marine information managers in CMA.

The Group encouraged the ODINAFRICA MIM group to get involved in the AMA.

6.7 SUBJECT SPECIFIC BIBLIOGRAPHIES

The Group noted that the development of a Integrated Search Tool (also called Federated search tool) would allow searching across databases. The results can be displayed on a mash-up page for a specific topic (e.g. NOAA Climate Change Portal).

The Group instructed the Secretariat to investigate a federated search possibility in OceanExpert and OceanDocs and set up a webpage.

6.8 IOC STRATEGIC PLAN

The Group agreed that there is a need to define the future role of librarians in data and information management of IODE. Marine Information Managers help people to access information quickly and effectively.

New roles include the development of e-repositories (including documents, photographic materials and multimedia), metadata, ontologies, semantic web, portal development, website review and design, legacy, discovery of historical data, data librarian, production of mash-up services, ERMS, Knowledge management, IPR advisor (Intellectual Property Rights)

This agenda item is discussed under item 4.2.1. in Agenda item 3.1.

6.9 APPLICATIONS OF NEW TECHNOLOGIES IN MIM

The Group discussed the use of new technologies such as Web 2.0/Library 2.0 Applications Options, Blogs, Wikis, Social Media, Semantic web and Mash-ups. The new OceanTeacher website makes use of Mediawiki software with a semantic extension.

6.10 OTHERS

The Group instructed Ms Linda Pikula to prepare a publication explaining the benefits of becoming a National Coordinator for MIM and becoming part of the IODE network and containing information on the IOC Strategic Plan for Data and Information Management and IODE Products.

Mr Egbert de Smet (University of Antwerp, Antwerp, Belgium) was invited to the GE-MIM meeting to explain the new ISIS software, its characteristics and advantages. The ISIS is a family of software packages, with several generations since 1975 and it includes ABCD, an ILMS software package. The ABCD software is adapted for different user needs: e.g. UNESCO, VLIR, BIREME all having different needs. ISIS is now using a Free and Open Source Software Model. ABCD is full-integrated library system (searching, catalogueing, statistics, open catalogue for public). The ISIS Co-ordination team manages the new ABCD (ISIS) software.

Training on the (ABCD) ISIS software for VLIR will be organized in March in Brussels using movies explaining the software. Training Materials in other languages than English will be delivered. A document with (ABCD) ISIS specifications is available.

The Group decided that one or two persons involved in ODINs can be sent to the ABCD (ISIS) training course in Brussels in order to evaluate the use of the software.

The group agreed to perform a test to convert an InMagic database towards (ABCD) ISIS.

The Group requested that Ms Arame Keita provided InMagic data to Ms Egbert de Smet in order to test the import functionality of the new ABCD (ISIS) software. The test database can be put at the IODE PO servers and made available to the IODE community.

The Group agreed to make a decision about the use of ABCD (ISIS) software before April 2009 based upon the results of the import test.

The Group agreed to organize training if the decision has been made. Documentation and training materials will be made available in March 2009. Courses can be organized in Ostend afterwards including an additional module on conversion from INMAGIC.

The Group agreed that the GE-MIM Chair contact Richard Pepe (FAO, Rome, Italy) in order to inform him of the migration test with ABCD (ISIS) and inquire about activities/progress in this area.

The Group agreed that if ABCD(ISIS) does not fulfill the requirements there needs to be an investigation of other software packages (Koha, Newgenlib).

Mr Marc Goovaerts reported on the status of the OpenScienceDirectory project. He stressed that this website is of particular importance for low-income countries because of access to e-journals. He mentions that over 10,000 titles have been included. OpenScienceDirectory provides access to AGORA and HINARI.

The Group congratulated the OpenScienceDirectory developers and thanked EBSCO for their support.

The Group instructed the Secretariat to inform all MIM National Coordinators and ODIN coordinators of the OpenScienceDirectory initiative.

The Group decided to further promote and advertise the OpenScienceDirectory in FAO (section: Knowledge Management) and other agencies (e.g. Science sector of UNESCO).

The Group instructed the OpenScienceDirectory developers that a list should be displayed with publishers supporting developing countries.

7. MIM ACTION PLAN FOR THE NEXT INTERSESSIONAL PERIOD

The Group adopted Recommendation MIM-X-1 (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 IODE-XX Session in May 2009.

8. ELECTION OF GE-MIM CHAIRPERSON

The Group instructed the Secretariat to provide information on the status of the membership (number of Sessions attended) for each current member of the Group.

Mr Pissierssens informed the Group that Ms Davies had now completed her second term as Chair of the Group and that in accordance with the IOC Rules of Procedure, a new Chair should be elected.

The Group unanimously **elected** Ms Linda Pikula as new Chair of the Group.

9. DATES AND PLACE OF THE NEXT SESSION

Decision on dates and place of the next session of GE-MIM will be taken after the IODE-XX session in Beijing, China.

10. ADOPTION OF 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 email. Accordingly the summary report of the meeting was adopted by email prior to publication.

11. CLOSURE

The Chair thanked the Members of the Group for their active participation in this Session and congratulated Ms Linda Pikula with her election as new Chair of GE-MIM.

The Chair also thanked the staff of the IOC Project Office for IODE for the excellent arrangements for the meeting. She also thanked the IOC and the Government of Flanders.

The Chair closed the meeting on 4 November at 18h00.

ANNEX I

AGENDA

1. OPENING OF THE SESSION
2. ADMINISTRATIVE ARRANGEMENTS
3. REPORT OF INTERSESSIONAL ACTIVITIES
 - 3.1 Implementation Status of GE-MIM XIX Work plan
 - 3.2 IODE-XIX and IODE Officers Meeting relevant to GE-MIM
4. COMMUNICATIONS
 - 4.1 Within IODE
 - 4.2 Communications with Other Agencies
5. CAPACITY BUILDING & REGIONAL NETWORKS
 - 5.1 ODINS.
 - 5.2 Mentoring programs & Internships
 - 5.3 OceanTeacher MIM Content
6. IODE/MIM PRODUCTS & TOOLS
 - 6.1 GE-MIM Involvement In IODE Product Development
 - 6.2 E-Repositories
 - 6.3 OceanExpert
 - 6.4 OceanTeacher
 - 6.5 OceanPortal
 - 6.6 Coastal atlases
 - 6.7 Subject specific Bibliographies
 - 6.8 IOC Strategic Plan
 - 6.9 Applications of New Technologies in MIM
 - 6.10 De-duplication tools
 - 6.11 Others?
7. MIM ACTION PLAN FOR THE NEXT INTERSESSIONAL PERIOD
8. ELECTION OF GE-MIM CHAIRPERSON
9. DATES AND PLACE OF NEXT SESSION
10. OTHER BUSINESS
11. ADOPTION OF SUMMARY REPORT
12. CLOSURE

ANNEX II RECOMMENDATIONS

Recommendation MIM-X.1: ACTION PLAN OF THE GROUP FOR 2009-2010

Recommendation MIM-X.1

ACTION PLAN OF THE GROUP FOR 2009-2010

Having reviewed its completed and on-going activities since its ninth 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-budgetary 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 2009-2010, as given in the Annex to this Recommendation.

Annex to Recommendation MIM-X.1

MIM ACTION PLAN FOR 2009-2010

Action	Description	Responsibility	Deadline
1	GE-MIM-X Action 1: Request Publishers to ask Authors to Define Keywords using ASFIS Thesaurus <ul style="list-style-type: none"> The Group decided to make use of the existing ASFA serial source list to send an emailed letter informing these publishers of the ASFA Thesaurus to recommend to them that this tool should be used as a reference for keyword allocation. 	Secretariat	Jan 09
2	<ul style="list-style-type: none"> The Group decided to contact ASFA through Mr Richard Pepe in order to send this request to publishers by making use of the ASFA mailing list. 	Secretariat Ms L.Noble	Jan 09
3	GE-MIM-VI Action 4: Monitoring of Electronic Copyright Legislation in Relation to Electronic Document Delivery <ul style="list-style-type: none"> The Group requested to include content on rights management (eg. Copyright, licensing, intellectual property) in the new OceanTeacher website. 	Ms L.Pikula	Jan 09
	GE-MIM-VI Action 13: Paper on hardware/software requirements for Marine LIC		

4	<ul style="list-style-type: none"> The Group requested to provide a list with relevant websites related to software for libraries for inclusion in OceanTeacher 	Ms P.Simpson	Jan 09
5	CO-OPERATION WITH IAMSLIC, EURASLIC AND RELATED MARINE LIBRARY ASSOCIATIONS <ul style="list-style-type: none"> The Group encouraged IODE National Coordinator for MIM to attend the IODE-XX Meeting that will be held in Tianjin (China) in May 2009. 	IODE MIM NC	May 08
6	<ul style="list-style-type: none"> The Group requested the Chair to email all IODE national coordinators for MIM to attend the IODE-XX Meeting. 	Chair	Jan 08
7	Communication strategy for GE-MIM and MIM national coordinators <ul style="list-style-type: none"> The Group instructed the Secretariat to produce promotional materials in time for the Anniversaries of IOC and IODE (Action Item 4.1.2). 	Secretariat	May 08
8	<ul style="list-style-type: none"> The Group decided to develop and provide national coordinators with a “certificate” declaring their official nomination as National Coordinator for Marine Information Management in order to distribute them during IODE-XX (Action Item 4.1.2). 	Secretariat	May 08
9	<ul style="list-style-type: none"> The Group decided that the “IODE MIM Priorities” survey needed to be amended to attract a better response and to obtain a more focused input that will guide GE-MIM (Action Item 4.1.3). 	Group	Jan 08
10	<ul style="list-style-type: none"> The Group decided that the “IODE MIM Priorities” survey should be undertaken 3 months before a GE-MIM meeting. Survey respondents should include the IODE NC for MIM, ODIN MIM coordinators and IAMSLIC members (Action Item 4.1.3). 	Chair	3 months prior to GE-MIM-XI
11	IODE website and MIM <ul style="list-style-type: none"> The Group instructed the Chair to send an email to the NC for MIM to ask for photos on national marine information management activities to include on the IODE website (Action Item 4.2). 	Chair	Jan 08
12	<ul style="list-style-type: none"> The Group instructed its Chair to request the IODE National Coordinators for MIM to enter their Library URL in their individual OE record (Action Item 4.2). 	Chair	Jan 08
13	Long term strategic plan <ul style="list-style-type: none"> The Group decided to prepare the MIM strategic plan document, which should be published as an addendum to the existing IOC Document (Manuals and Guidelines 49) and could also be re-packaged for various communication and promotional MIM products. 	Chair	Jan 08
14	<ul style="list-style-type: none"> The Group called on the IODE National Coordinators for MIM to more pro-actively involve other marine information centres in 	IODE	Continuing

	their countries by disseminating information on, and encourage participation in IODE-MIM and GE-MIM initiatives.		
15	Communication <ul style="list-style-type: none"> The Group instructed that a working group would review the draft MIM Communication Strategy and circulate their comments to the GE-MIM Group by email for further discussion and approval. 	Ms L.Noble, Ms P.Munoz, Ms P. Simpson.	Jan 08
16	IODE Group of Experts <ul style="list-style-type: none"> The Group instructed to set up a GE-MIM Groupware site in order to facilitate monitoring of progress with the implementation of the GE-MIM work plan. The Group further instructed the Secretariat to create milestones for all GE-MIM-X action items. The Group requested its Members to upload drafts of documents that require discussion in the Groupware site, as well as relevant presentations and other documents that are not ready for public distribution. 	Secretariat	Jan 09
17	Communication strategy for GE-MIM and MIM national coordinators <ul style="list-style-type: none"> The Group instructed the Secretariat to produce promotional materials in time for the anniversaries of IOC and IODE (IODE-XX meeting for review and approval) 	Secretariat	May 09
18	<ul style="list-style-type: none"> The Group decided to develop and provide National Coordinators with a “certificate” declaring their official nomination as National Coordinator for Marine Information Management. The Group decided that such certificates should be distributed during IODE-XX. 	Secretariat, Chair	March 09
19	MIM National Coordinators <ul style="list-style-type: none"> The Group instructed to develop the template of the MIM Survey for National Coordinators further, based upon the suggestions by the Group. The revised version will be further discussed and agreed upon by email by the Group. 	GE-MIM	Jan 09
20	<ul style="list-style-type: none"> The Group further decided that the “IODE MIM priorities” survey should be undertaken 3 months before a GE-MIM meeting. Survey respondents should include the IODE National Coordinators for MIM, ODIN MIM coordinators (if they are not IODE NC for MIM), and IAMS LIC members. 	Secretariat	After GE-MIM-XI
21	IOC D&IM Management Advisory Group (IDIMAG) <ul style="list-style-type: none"> The Group recommended that the GE-MIM Chair should also be a member of the IDIMAG group (http://www.iode.org/index.php?option=com_content&task=view&id=112&Itemid=130) 	Chair	Jan 09
22	IODE Website: about information management <ul style="list-style-type: none"> The Group instructed the Secretariat to make the necessary 	Secretariat	Jan 08

	changes to the IODE website according to recommendations made by Ms Pauline Simpson.		
23	IODE WEB SITE AND MIM <u>Overview page IODE National Coordinators</u> <ul style="list-style-type: none"> • The Group instructed its Chair to request the IODE National coordinators for MIM to enter their library URL in their individual OceanExpert record 	Chair	Jan 08
24	<u>General Section / About Marine Information Management</u> <ul style="list-style-type: none"> • The Group reviewed and amended the content of the “About Marine Information Management” at the Session and requested the Secretariat to make the identified changes to the page. 	Secretariat	Jan 08
25	<ul style="list-style-type: none"> • The Group instructed the Chair to send an email to the National Coordinators for MIM to ask for photos on national marine information management activities to include on the IODE website. 	Chair	Jan 08
26	Long term strategic plan <ul style="list-style-type: none"> • The Group decided to prepare the MIM strategic plan document, which should be published as an addendum to the existing IOC Document (Manuals and Guidelines 49) and could also be re-packaged for various communication and promotional MIM products. 	Chair, GE-MIM, IODE Co-Chairs	May 08
27	<ul style="list-style-type: none"> • The Group called on the IODE National Coordinators for MIM to more pro-actively involve other marine information centres in their countries by disseminating information on, and encourage participation in IODE-MIM and GE-MIM initiatives. 	IODE	Continuing
28	Communication with other agencies IOC-IAMSLIC Memorandum of Understanding <ul style="list-style-type: none"> • The Group requested that a review of achieved results of the cooperation with IAMSLIC should be included in the Terms of Reference of the MOU. 	Chair/past-Chair	Jan 09
29	<p>The Group requested to prepare the draft MOU for consideration by the joint IAMSLIC/GE-MIM task force in March 2009, by UNESCO’s legal affairs department and finalization in April 2009 and the IODE-XX Session in May 2009.</p> <p>The Group decided that the new MOU should have a general introductory part, which will be similar to the previous MOU and an annex that outlines, in detail, the agreed activities for collaboration.</p> <p>The Group identified the following activities for collaboration:</p> <ul style="list-style-type: none"> - OceanPortal: joint ownership and quality control - Avano e-repository harvester: joint funding/support; - Organization of sabbaticals, visiting experts, internships, twinning programmes (through IODE 	GE-MIM, Chair, past-chair	March 09

<p>30</p> <p>31</p>	<p>Project Office, ODIN partner institutions, IAMS LIC member institutions);</p> <ul style="list-style-type: none"> - OceanExpert: use of OceanExpert by IAMS LIC for membership record management; - OceanTeacher: attracting content providers and establishing a content review team inclusion of or linking to IAMS LIC Conference papers in OceanTeacher; - Support to ODIN partner countries (IAMS LIC membership fees); - Hosting (server space) of IAMS LIC products by IOC Project Office for IODE; <p>POGO / CoML</p> <ul style="list-style-type: none"> • The Group requested that the establishing of a discovery service retrieving data sets and documents in the OceanDataPortal and Avano would further discussed with the SG-ODP. <p>Other agencies</p> <ul style="list-style-type: none"> • The Group instructed its members to inform other agencies, programmes and projects with which they collaborate through other activities, of MIM and GE-MIM activities. This will be of particular importance at the regional level. 	<p>NC MIM</p> <p>GE-MIM</p>	<p>Jan 09</p> <p>Jan 09</p>
<p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p>	<p>ODINS</p> <p>ODINCARSA</p> <ul style="list-style-type: none"> • The Group requested the OceanDocs Latino coordinator to prepare a document in Spanish containing the statistics of OceanDocs-Latino and to communicate this document to heads of institutions within ODINCARSA <p>ODINPIMRIS</p> <ul style="list-style-type: none"> • The Group requested to prepare a letter (Statement of support) for GE-MIM Chair addressed to heads of fisheries and marine science departments of governments in the region, requesting support for ODINPIMRIS activities. • The Group requested to investigate funding opportunities by the EU. <p>ODINCINDIO</p> <ul style="list-style-type: none"> • The group instructed to contact the MIM community in the ODINCINDIO region (including former ODINCINDIO trainees) to inquire about their opinion and ideas for future activities of ODINCINDIO and what IODE can do for them, considering the upcoming IODE meeting in China which may provide an opportunity for renewed support and action. <p>ODINWESTPAC</p> <ul style="list-style-type: none"> • The Group noted that the MIM community in the WESTPAC 	<p>Ms P.Munoz</p> <p>Ms Maria Kalenchits, Chair</p> <p>Ms Maria Kalenchits</p> <p>Chair</p> <p>Ms Linda</p>	<p>Jan 09</p> <p>Jan 09</p> <p>Jan 09</p> <p>Jan 09</p> <p>Jan 09</p>

37	<p>region has not yet been involved in the ODINWESTPAC pilot project and requested to compile a list of ASFA partners and collaborating centres in the ODINWESTPAC region.</p> <ul style="list-style-type: none"> • The Group requested the GEMIM Chair to contact the ASFA partners and collaborating centres in the ODINWESTPAC region in order to encourage them to consider the MIM aspect of ODIN. 	Noble Chair	Jan 09
38	GE-MIM involvement in IODE Product Development		
39	<ul style="list-style-type: none"> • The Group recommended translation of documents. Document translation should be based upon the following criteria: longevity, target audience and size of the document (e.g. IOC Manuals and Guides). If a new product is produced by GE-MIM translation should be taken in consideration. 		
40	<ul style="list-style-type: none"> • The Group recommended that ODIN networks should decide which documents are worth translating. 		
41	<ul style="list-style-type: none"> • The Group recommended that only the executive summary should be translated into multiple languages while the body text should be in English or the primary working language of the target audience. 	Secretariat	As required
42	<p>E-repositories</p> <ul style="list-style-type: none"> • The Group urged the OceanDocs Steering Group to identify a Chair and requests the Steering group to write a strategy and work plan to be presented at the next IODE Committee session. The Group suggested to the OceanDocs Steering Group to consider the OceanDocs General Policy Document as a start to develop a strategy for OceanDocs. This Strategy should highlight and include issues such as: communication among the Steering Group, coordination of activities, incorporation of new groups, identifies a way forward, clarification of membership of the Steering Group. 	Ms A.Keita, Mr M.Goovaerts, Ms P.Munoz	May 09
43	<ul style="list-style-type: none"> • The Group recommended that a statistics document should be communicated to the OceanDocs steering group for further communication to heads of institutions within all ODINs that have e-repositories. 	Mr M.Goovaerts	Jan 09
44	<ul style="list-style-type: none"> • The Group requested that the IOC logo and a link to the statistical webpage be added to the OceanDocs webpage. 	Mr M.Goovaerts	Jan 09
45	<ul style="list-style-type: none"> • The Group requested to contact Mr Frederic Merceur about long term commitments of IFREMER regarding Avano and report back to GE-MIM. 	Mr M.Goovaerts	Jan 09
46	<ul style="list-style-type: none"> • The Group decided to approach IAMSLIC under the new MOU for joint funding and support of Avano. 	Chair	Jan 09
47	<ul style="list-style-type: none"> • The Group invited Ms Arame Keita to take on the responsibility of interim coordination and management of OceanDocs Africa until new arrangements are in place within 	Ms A.Keita	Nov 08

	the framework of ODINAFRICA-4.		
	OceanExpert		
48	<ul style="list-style-type: none"> • The Group instructed to further investigate the linking of OceanExpert and OceanDocs. 	Mr W.Rommens, Mr M.Goovaerts	Jan 09
49	<ul style="list-style-type: none"> • The Group instructed to implement a number of revisions in OceanExpert. <ol style="list-style-type: none"> 1. ODIN regions should have their own “sites” allowing searching only for that region (e.g. AFRIDIR). 2. URL checker for dead links to institution homepages 3. Sending of validation requests for records of ODINs to the ODIN regional coordinator (MIM). 	Secretariat	Jan 09
	OceanTeacher		
50	<ul style="list-style-type: none"> • The Group decided that the top level MIM section in OceanTeacher should be named as such but that a scope note should be added to the MIM page in OceanTeacher to explain both core information principles and specific marine applications. 	Mr W.Rommens, Ms L.Pikula	Jan 09
51	<ul style="list-style-type: none"> • The group decided to approach IAMS LIC under the new MOU (see 4.2) in order to cooperate with IAMS LIC on the development of MIM content for OceanTeacher. 	Chair	Jan 09
52	<ul style="list-style-type: none"> • The Group decided to establish a review team for MIM content in OceanTeacher. 	Chair	Jan 09
53	<ul style="list-style-type: none"> • The Group decided to include a page explaining the “production cycle” of OT documents. 	Mr.W.Romme ns	Jan 09
54	<ul style="list-style-type: none"> • The Group decided to create a link to the IAMS LIC conference proceedings from OT (OT editor, deadline December 2008) 	Ms L.Pikula	Jan 09
	OceanPortal		
55	<ul style="list-style-type: none"> • The group decided to approach IAMS LIC under the new MOU in order to cooperate with IAMS LIC for joint management of OceanPortal. 	Chair	Jan 09
	Coastal atlases		
56	<ul style="list-style-type: none"> • The Group invited Ms Pauline Simpson to represent GE-MIM to CMA with the view of providing guidance regarding the role of marine information managers in CMA. 	Ms P.Simpson	Jan 09
57	<ul style="list-style-type: none"> • The Group encouraged the ODINAFRICA MIM group to get involved in the AMA. 	ODINAFRICA MIM	Jan 09
	Other products		

58	<ul style="list-style-type: none"> • The Group instructed the Secretariat to investigate a federated search possibility in OceanExpert and OceanDocs and set up a webpage. 	Secretariat, Mr M.Goovaerts	Jan 09
59	<ul style="list-style-type: none"> • The Group requested to distribute a draft of the document “Marine information centre development: an introductory manual” (IOC Manuals and Guidelines 23, http://hdl.handle.net/1834/2751)” to the Group by email for further comments. The Group requested Ms Linda Pikula to finalize the document for IODE-XX. 	Ms L.Pikula	May 09
60	<ul style="list-style-type: none"> • The Group instructed Ms Linda Pikula to prepare a publication explaining the benefits of becoming a National Coordinator for MIM and becoming part of the IODE network and containing information on the IOC Strategic Plan for Data and Information Management and IODE Products. 	Ms L.Pikula	Jan 09
ISIS Software			
61	<ul style="list-style-type: none"> • The Group decided that one or two persons involved in ODINs can be sent to the ABCD (ISIS) training course in Brussels in order to evaluate the use of the software. 	Secretariat	Jan 09
62	<ul style="list-style-type: none"> • The group agreed to perform a test to convert an InMagic database towards (ABCD) ISIS and requested that Ms Arame Keita provides InMagic data to Ms Egbert de Smet in order to test the import functionality of the new ABCD (ISIS) software. The test database can be put at the IODE PO servers and made available to the IODE community.. 	Ms A.Keita	Jan 09
63	<ul style="list-style-type: none"> • The Group decided to take a decision about use of the ISIS software before April 2009 based upon the results of the import test. 	GE-MIM	April 09
64	<ul style="list-style-type: none"> • The Group agreed to organize training if the decision has been taken. Documentation and training materials will be available in March 2009. Courses can be organized in Ostend afterwards including an additional module on conversion from INMAGIC. 	Secretariat	April 09
65	<ul style="list-style-type: none"> • The Group agreed that the GE-MIM Chair contacts Richard Pepe (FAO, Rome, Italy) in order to inform him of the migration test with ABCD (ISIS). We ask him of his activities/progress in this area. 	Chair	Jan 09
66	<ul style="list-style-type: none"> • The Group agreed that if ABCD (ISIS) does not fulfil the requirements there needs to be an investigation of other software packages (koha, Newgenlib). 	GE-MIM	n/a
OpenScienceDirectory			
67	<ul style="list-style-type: none"> • The Group instructed the Secretariat to inform all MIM National Coordinators and ODIN coordinators of the OpenScienceDirectory initiative. 	MIM NC, ODIN Coordinators	Jan 09
68	<ul style="list-style-type: none"> • The Group decided to promote and advertise the OpenScienceDirectory in FAO (section: Knowledge Management) and other agencies (e.g. Science sector of 	Secretariat	Jan 09

69	UNESCO) further. • The Group instructed the OpenScienceDirectory developers that a list should be displayed with publishers supporting developing countries.	Mr M.Goovaerts	Jan 09
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ANNEX III

LIST OF PARTICIPANTS

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ANNEX IV

LIST OF ACRONYMS

AFRIAMSLIC	Africa Regional Group of the International Association of Aquatic and Marine Science Libraries and Information Centres
AFRIDIR	African Directory of Marine and Freshwater Professionals
AFRILIB	Collection of oceanographic publications from African libraries
AGORA	Access to Global Online Research in Agriculture (FAO)
AGRIS	International Information System for the Agricultural Sciences and Technology (FAO)
AGRIS AP	AGRIS Application Profile (FAO)
ASFA	Aquatic Sciences and Fisheries Abstracts
ASFIS	Aquatic Sciences and Fisheries Information System
CL	Circular Letter
CPPS	Comisión Permanente del Pacífico Sur
D&IM	Data and Information Management
DL	Digital Library (OceanTeacher)
DOAR	Directory of Open Access Repositories
EIFL	Electronic information for libraries
ETDMP	Expert Team on Data Management Practices (JCOMM/IODE)
EURASLIC	European Association of Aquatic Sciences Libraries and Information Centres
FAO	Food and Agriculture Organization of the United Nations
GE	Group of Experts
GE-BICH	IODE Group of Experts on Biological and Chemical Data Management and Exchange Practises
GE-MIM	IODE Group of Experts on Marine Information Management
HINARI	Health InterNetwork to Research Initiative (WHO)
ICSPRO	Intersecretariat Committee on Scientific Programmes relating to Oceanography
ICSU	International Council for Science

IAMSLIC	International Association of Aquatic and Marine Science Libraries and Information Centers
ILL	Inter Library Loan
ILMS	Integrated Library Management System
IMIS	Integrated Marine Information System (VLIZ, Belgium)
INASP	International Network for the Availability of Scientific Publications
IOC	Intergovernmental Oceanographic Commission (UNESCO)
IODE	International Oceanographic Data and Information Exchange (IOC)
IPR	Intellectual Property Rights
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 (IODE)
ODINAFRICA	Ocean Data and Information Network for Africa (IODE)
ODINCARSA	Ocean Data and Information Network for the Caribbean and South America (IODE)
ODINCINDIO	Ocean Data and Information Network for the Central Indian Ocean (IODE)
ODINECET	Ocean Data and Information Network for European Countries in Economic Transition (ODIN)
ODINPubAfrica	e-repository of the ODINAFRICA project
ODINWESTPAC	Ocean Data and Information Network for the Western Pacific
ODINPIMRIS	Ocean Data and Information Network for the Small Pacific Islands

ODP	Ocean Data Portal
OE	OceanExpert
PIMRIS	Pacific Islands Marine Resources Information Systems
PIRG	Pacific Islands Regional Group (IAMS LIC)
QC	Quality Control
ROAR	Register of Open Access Repositories
SAIAB	South African Institute for Aquatic Biodiversity (formerly JLB)
SAIL	Southeast Affiliate of IAMS LIC Libraries (IAMS LIC)
UNESCO	United Nations Educational, Scientific and Cultural Organization
URL	Uniform Resource Locator
VLIZ	Vlaams Instituut voor de Zee
WDC-MARE	World Data Center for Marine Environmental Sciences
WESTPAC	IOC Sub-Commission for the Western Pacific