# First ODINCARSA Training Course in Marine Information Management

Mazatlan, Mexico
29 September – 4 October 2002

**UNESCO**

**Intergovernmental Oceanographic Commission**
*Training Course Reports*

# 66

# First ODINCARSA Training Course in Marine Information Management

Mazatlan, Mexico
29 September – 4 October 2002

Hosted by the Unidad Académica Mazatlán
del Instituto de Ciencias del Mar y Limnologia, U.N.A.M.

**UNESCO 2002**

**Abstract**

The First ODINCARSA Training Course in Marine Information Management was held in Mazatlan, Mexico, kindly hosted by the 'Unidad Académica Mazatlán del Instituto de Ciencias del Mar y Limnologia, U.N.A.M.'. The Training Course was attended by 17 participants from 13 countries including Argentina, The Bahamas, Chile, Colombia, Cuba, Ecuador, Jamaica, Mexico, Nicaragua, Panama, Peru, Saint Lucia and Trinidad & Tobago. Resource persons included Mrs Jane Barnwell, Mrs. Amelia Chavez Comparán, Mrs. Guillermina Cosulich, Mrs. Linda Pikula, Mrs. Maria Clara Ramirez Jáuregui, Mrs. Pauline Simpson, Mr. Steve Watkins and Mr. Peter Pissierssens. The course included theoretical lectures on Information Management as well as discussions on an ODINCARSA marine information management workplan for 2002/2003. The course used the OceanTeacher system.

*Note: this report is published in electronic copy only and is available on UNESDOC, the documents database of UNESCO (http://unesdoc.unesco.org/ulis/)*

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[1] Also translated into Spanish

# TABLE OF CONTENTS

## 1. INTRODUCTION

The First ODINCARSA Training Course in Marine Information Management was held in Mazatlan, Mexico, kindly hosted by the 'Unidad Académica Mazatlán del Instituto de Ciencias del Mar y Limnologia, U.N.A.M.'. The training course was attended by 17 participants from 13 countries including Argentina, The Bahamas, Chile, Colombia, Cuba, Ecuador, Jamaica, Mexico, Nicaragua, Panama, Peru, Saint Lucia and Trinidad & Tobago. Resource persons included Mrs. Jane Barnwell (Pacific Specialist, Thomas Hale Hamilton Library, Honolulu, Hawaii, United States of America), Mrs. Amelia Chavez Comparán (Head Librarian, Centro de Investigación Cientifica y Educación Superior de Ensenada, Mexico), Mrs. Guillermina Cosulich (Instituto Nacional de Investigación y Desarrollo Pesquero, Biblioteca y Servicio de Documentación INIDEP, Argentina), Mrs. Linda Pikula (NOAA Miami Regional Library, Miami, Florida, United States of America), Mrs. Maria Clara Ramirez Jáuregui (Biblioteca "Dra. Ma. Elena Caso Muñoz", Unidad Académica Mazatlán del Instituto de Ciencias del Mar y Limnologia, UNAM, Mazatlán, Mexico), Mrs. Pauline Simpson (Head of Information Services, Southampton Oceanography Centre, Southampton, United Kingdom), Mr. Steve Watkins (Co-ordinator of Technology Development, CSU Monterey Bay Library, Seaside, California, United States of America) and Mr. Peter Pissierssens (Head, Ocean Services Section, Intergovernmental Oceanographic Commission, Paris, France).

In order to identify participants, all ODINCARSA National Co-ordinators had been invited to nominate suitable experts from their institution with experience in library management, as available, who would, subsequent to the course, be responsible for the implementation of the agreed-upon work plan.

Despite this request it was noted that only Chile and Cuba had been able to send a marine librarian. Other participants included mainly data managers, public information officer or technicians. It was concluded that this was due to the absence of true marine libraries in those institutions. More details on the institution were subsequently obtained through the survey (see 2.)

## 2. INSTITUTIONAL SURVEY

In order to obtain detailed information on the level of development and capacity of each participant's information centre/library a detailed survey form was distributed during the course. A copy of the original survey form is attached as Annex III. The results are provided below.

### 2.1 ARGENTINA

Name: *Fabian Alejandro VETERE*
Institution: *Servicio de Hidrografía Naval*
Address information: *See List of Participants*
URL: http://www.hidro.gov.ar
Your current job title: *Head, Secretariat Oceanography Dept., contact to CEADO*
Your educational background (degrees, previous jobs): *Oceanographer*
Since when are you holding your current job: *1990*
Since when have you worked in a library (including previous jobs): *Not worked as librarian*
Do you work as information specialist full-time or part-time: *Does not work as librarian full-time*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *Yes*

Note: *The information centre is part of the National Oceanographic Data Centre, which is part of the hyrdrography service. CEADO wishes to further develop the information centre.*

## Address information
Name of the library/information centres: *CEADO*
Name of Parent Organization/Institution: *Servicio de Hidrografia Naval*
Name of head librarian: *Head of CEADO (Ariel Troisi)*
Postal address: *Same as above*
Tel: *[54](11) 301-0061/7, Ext: 4013*
Fax: *No Info*
E-mail of the library (if applicable): ceado@hidro.gov.ar
E-mail of head librarian: atroisi@hidro.gov.ar
Institution URL: http://www.hidro.gov.ar/ceado/ceado.asp
Library URL: *Same*

## Descriptions of library/information centre staff:
Number of staff in the library: *All data centre staff (total 7):*
- *Head: Ariel Troisi: Oceanographer*
- *Physical/Chemical Data acquisition responsible*
- *Computing professional (master database)*
- *Computing technicians (2)*
- *Oceanographic technicians (2)*

## Services provided by the library/information centre:
- Library (holding books, journals, etc): *Yes, via SHN Library*
Can users borrow materials: *Yes, via SHN Library*
- Reading room: *Yes, via SHN library*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *Yes, via SHN Library*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country): *No*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index...): *Yes*
If yes, specify which and medium (e.g.; diskette, CD-ROM, Internet): *via INIDEP*
- Multimedia access (audiotape, videotape): *No*
- Internet access for users: *Yes*

## Products developed by the library/information centre:
Does the library/information centre develop products? (brochures, directories, posters): *No*

## Library Catalogue
Does the library maintain a catalogue of its holdings: *Yes*
If yes:
Is the catalogue an electronic catalogue: *Yes*
If yes:
Is the catalogue a database or word-processing file: *DATABASE*
If Database:
Commercial software: *No Info (small catalogue of technical papers and IOC publications).*

**Library Management Systems**
If your library uses a computerized catalogue system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL, …). In other words does your library have an Integrated Library Management System (ILMS): *No*

**Computer Infrastructure**:
Do you have computer equipment in your library: *No*

**Library Holdings:**
*Not applicable*

**Library Networking:**
*Not applicable*

**Linkage with data management:**
*Not applicable*

2.2    BAHAMAS

Name: *Mr. Godfrey BURNSIDE*
Institution: *Department of Meteorology*
Address information: *See List of Participants*
URL: *None*
Your current job title: *Technical Officer*
Your educational background (degrees, previous jobs): *Class III WMO certification (Meteorology)*
Since when are you holding your current job: *15 years*
Since when have you worked in a library (including previous jobs): *No Info*
Do you work as information specialist full-time or part-time: *No Info*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *Yes, but small.*
If yes:

**Address information**
Name of the library/information centres: *Same as institution*
Name of Parent Organization/Institution: *No Info*
Name of head librarian: *No Info*

**Descriptions of library/information centre staff:**
Number of staff in the library: *1*
Staff 1:
        Name: *No Info*
        Position: *Library clerk*

Note: *It has not been possible to allocate to fund a librarian position.*

**Services provided by the library/information centre:**
*No info*

**Products developed by the library/information centre:**
Does the library/information centre develop products? (brochures, directories, posters): NO

If yes, then specify and describe:

**Library Catalogue**
Does the library maintain a catalogue of its holdings: *No*

**Library Management Systems:**
*None*

**Computer Infrastructure**:
Do you have computer equipment in your library: *No*

**Library Holdings:**
Number of Monographs (books, reports,…): *Approx. 500*
Number of serials: *300*
Number of CURRENT journal subscriptions for which you pay: *No Info*
Number of CURRENT journal subscriptions, which you receive on an exchange basis: *No Info*
If exchange: Specify the journal/other publication that you provide: *No Info*
Total shelf space in linear meters: *No Info*

**Library Networking:**
*No info*

**Linkage with data management:**
*No info*

2.3    CHILE

Name:  *Alexandra K. SMITH*
Institution: *Servicio Hidrografico y Oceanografico de la Armada de Chile (SHOA) (Hydrographic & Oceanographic Service of the Chilean Navy)*
Address information: *See List of Participants*
URL: http://www.shoa.cl
Your current job title:  *Chief Librarian*
Your educational background (degrees, previous jobs): *University degree in Librarianship*
Since when are you holding your current job: *1989*
Since when have you worked in a library (including previous jobs): *1985*
Do you work as information specialist full-time or part-time: *Full-time*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *Yes*
If yes: *We are interested in organizing our national marine information centres so as to better manage information resources. Our Hydrographic Service also holds our NODC.*

**Address information**
Name of the library/information centres: *Library*
Name of Parent Organization/Institution: *Servicio Hidrografico y Oceanografico de la Armada de Chile (SHOA)*
Name of head librarian: *Alexandra K. SMITH*
Postal address: *Errazuriz 254, Playa Ancha, Valparaiso, Chile*
Tel: *56-32-266 533*
Fax: *56-32-266 542*

E-mail of the library (if applicable): biblioteca@shoa.cl
E-mail of head librarian: *Same as above*
Institution URL: http://www.shoa.cl
Library URL: http://www.shoa.cl/biblioteca/biblioteca/htm

**Services provided by the library/information centre:**
- Library (holding books, journals, etc): *Yes*
Can users borrow materials: *Yes*
- Reading room: *Yes*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *Yes*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country): *Yes*
If yes, then do you use electronic library loan (e.g.; using ARIEL or other scanner-based software): *Yes*
If yes, then specify: *ARIEL*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *Yes*
If yes, specify which and medium (e.g.; diskette, CD-ROM, Internet): *ASFA, CD-ROM*
- Multimedia access (audiotape, videotape): *Yes*
If yes, specify and describe
- Internet access for users: *Yes*

**Products developed by the library/information centre:**
Does the library/information centre develop products? (brochures, directories, posters): *Yes*
If yes, then specify and describe:

**Library Catalogue**
Does the library maintain a catalogue of its holdings: *Yes*
If yes:
Is the catalogue an electronic catalogue: *Yes*
If yes:
Is the catalogue a database or word-processing file: *DATABASE*
If no:
Describe the database system: *WINISIS*
What field format do you use (e.g.; MARC, ASFA, custom format): *No Info*
What classification system do you use for your library holdings? *No Info*

**Library Management Systems**
If your library uses a computerized catalogues system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL,…). In other words does your library have an Integrated Library Management System (ILMS): *Yes*
If yes, then specify: *Searching & loaning*

**Computer Infrastructure**:
Do you have computer equipment in your library: *Yes*
If yes then:
How many PCs do you have in the library: *6*
How many are used for the management of the library: *2*
How many are available to users: *4*
Are the computers of your library networked (LAN): *Yes*
If yes, then are the library computers linked to an institutional LAN: *Yes*

If yes, then do you have access to a server where you can store files: *Yes*
Do your computer(s) have access to the Internet: *Yes*
E-mail only or e-mail + WWW: e-mail only/e-mail + WWW

**Library Holdings:**
Number of Monographs (books, reports,…): *About 11,000*
Number of serials: *468 titles*
Number of CURRENT journal subscriptions for which you pay: *11*
Number of CURRENT journal subscriptions which you receive on an exchange basis:
If exchange: specify the journal/other publication that you provide: *About 30*
Total shelf space in linear meters: *No Info*

**Library Networking**
Is your Library part of a national library network: *Yes*
If yes, then describe the network and what services you get from the network: *No Info*
Is your Library part of an international library network: *Yes*
If yes then describe the network and what services you get from the network: *No Info*
Is your Library (or yourself) a member of a professional librarian organization/society (e.g.; IAMSLIC): *Yes*
If yes, then specify: *IAMSLIC*

**Linkage with data management**
Is your library in the same institution as the ODINCARSA data centre: *Yes*
If yes, then do you have good contacts with the data centre: *Yes*

2.4    COLOMBIA

Name: *CEDAT*
Address information: *See List of Participants*
URL: http://www.cioh.org.co/cedat
Your current job title: *Jefe Seccion Oceanica*
Your educational background (degrees, previous jobs): *Tecnico Professional Gestion Ambiental y Tecnologo en Oceanografia Fisica*
Since when are you holding your current job: *23 anos de experiencia*
Since when have you worked in a library (including previous jobs): *Elaboracion Boletines Meteorarios, en un parque de Prevision*
Do you work as information specialist full-time or part-time: *Muy poco tiempo*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *Yes*

**Address information**
Name of the library/information centres: *Centro de investigacions oceanograficas hidrografica - CIOH*
Name of Parent Organization/Institution: *Armado nacional*
Name of head librarian: *No Info*
Postal address: *982*
Tel: *6694465, Ext. 113*
Fax: *No Info*
E-mail of the library (if applicable): *No Info*
E-mail of head librarian: *No Info*

Institution URL: http://www.cioh.org.co
Library URL: *No Info*

## Descriptions of library/information centre staff:
Number of staff in the library: *En la actualidad no se cuenta con una persona especializada en este campo*

## Services provided by the library/information centre:
- Library (holding books, journals, etc): *Yes*

Can users borrow materials: *No Info*

- Reading room: *Yes*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *No*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country): *No*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *No*
- Multimedia access (audiotape, videotape): *No*
- Internet access for users: *Yes*

## Products developed by the library/information centre:
Does the library/information centre develop products? (brochures, directories, posters): *No*

## Library Catalogue
Does the library maintain a catalogue of its holdings: *Yes*

If yes:

Is the catalogue an electronic catalogue: *Yes*

Describe the database system: *La que hay actualmente es ISIS con 4,500 registros, liste desactualizada y no se ceunta con personas de experiencia*

## Library Management Systems
*No Info*

## Computer Infrastructure:
Do you have computer equipment in your library: *Yes*

If yes then:

How many PCs do you have in the library: *No Info*

How many are used for the management of the library: *No Info*

How many are available to users: *No info*

## Library Holdings:
*No Info*

## Library Networking
*No Info*

## Linkage with data management
More details: *Experiencia en computacion: promedio*

2.5    CUBA

Name: *Maria de los Angeles Ginori GILKES*
Address information: *See List of Participants*
URL: http://www.acuanoonacioval.cu
Your current job title: *Library management, information sources acquisition services & everything related to library*
Your educational background (degrees, previous jobs): *University Library Sciences or Information Services*
Since when are you holding your current job: *1994*
Since when have you worked in a library (including previous jobs): *1986*
Do you work as information specialist full-time or part-time: *Full-time*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *Yes*

**Address information**
Name of the library/information centres: *Library of the National Aquarium*
Name of Parent Organization/Institution: *Acuano Nacional*
Name of head librarian: *Maria de los Angles Ginori GILKES*
Postal address: *Ave. 1$^{ra}$ rq. 60*
Tel: *537 (204) 6401, Ext. 250*
Fax: *537 (204 144) 8:00.a.m. – 5:00 p.m.*
E-mail of the library (if applicable): *No Info*
E-mail of head librarian: acuano@ama.cu
Institution URL: http://www.acuanonacunal.cu
Library URL: http://www.acuanonacunal.cu/biblioteca.htm

**Descriptions of library/information centre staff:**
Number of staff in the library: *1*
Staff 1:
        Name: *Mercedes Duralkis Vina*
        Position: *No Info*
        Education level: *Technician*
        E-mail address: acuario@ana.cu

**Services provided by the library/information centre:**
- Library (holding books, journals, etc): *Yes*
Can users borrow materials: *Yes*
- Reading room: *Yes*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *Yes*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country): *No*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *Yes*
If yes, specify which and medium (e.g.; diskette, CD-ROM, Internet): *No Info*
- Multimedia access (audiotape, videotape): *No*
- Internet access for users: *No*

**Products developed by the library/information centre:**
Does the library/information centre develop products? (brochures, directories, posters): *No*

**Library Catalogue**
Does the library maintain a catalogue of its holdings: *Yes*
If yes:
Is the catalogue an electronic catalogue: *Yes*
If yes:
Is the catalogue a database or word-processing file:  WORD-PROC FILE /<u>DATABASE</u>
If Database:
Commercial software? *No*
If yes, then specify:
If no:
Describe the database system: *WINISIS 1,500 records in WINISIS, including books, brochures, CD-ROMs, videos*
What field format do you use (e.g.; MARC, ASFA, custom format): *No Info*
What classification system do you use for your library holdings? *ASFA classification*

**Library Management Systems**
If your library uses a computerized catalogues system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL,…). In other words does your library have an Integrated Library Management System (ILMS): *No*
Describe: *The database is only for bibliographic descriptions*

**Computer Infrastructure**:
Do you have computer equipment in your library: *Yes*
If yes then:
How many PCs do you have in the library: *2*
How many are used for the management of the library: *2*
How many are available to users: -
Are the computers of your library networked (LAN): *No*
Do your computer(s) have access to the Internet: *No*
E-mail only or email + WWW: <u>e-mail only</u>/e-mail + WWW

**Library Holdings:**
Number of Monographs (books, reports,…): *1,500*
Number of serials: *50 – 25 active subscriptions (donation)*
Number of CURRENT journal subscriptions for which you pay: *3*
Number of CURRENT journal subscriptions which you receive on an exchange basis: -
If exchange: specify the journal/other publication that you provide:
Total shelf space in linear meters: *26 meters*

**Library Networking**
Is your Library part of a national library network: *No*
Is your Library part of an international library network: *No*
Is your Library (or yourself) a member of a professional librarian organization/society (e.g.; IAMSLIC): *Yes*
If yes, then specify: *For the last 3 years thanks to the twin programme. At this moment I am not a member of IAMSLIC*

**Linkage with data management**
Is your library in the same institution as the ODINAFRICA data centre?  *No*
If no, then how far is the data centre from your library? *5 km*
Do you have any contacts with the data centre? *Will begin*

## 2.6    ECUADOR

Name: *Rodney Martinez GUINGLA*
Address information: *See List of Participants*
URL: http://www.inocar.mil.ec
Your current job title: *Head, Ocean & Climate Department*
Your educational background (degrees, previous jobs):
*Oceanographer, M.Sc. Projects Management*
Since when are you holding your current job: *8 years*
Since when have you worked in a library (including previous jobs): *Indirectly, 6 years*
Do you work as information specialist full-time or part-time: *Part-time*

### Institutional Capacity Assessment Survey
Does your institution have an ocean related library/information centre?  *Yes*
If no, explain why you were assigned to participate in this training course: *We are reinforcing the Ecuadorian NODC & we currently manage marine information in some minor projects (common marine info for common people)*

### Address information
Name of the library/information centres: *NODC or Ecuador (INOCAR)*
Name of Parent Organization/Institution: *Ecuadorian Navy*
Name of head librarian: *Marfiu RODRIGUEZ*
Postal address: *# 5940*
Tel: *(593) 4 298 1105*
Fax: *(593) 4 248 5164*
E-mail of the library (if applicable): cendoc@inocar.mil.ec
E-mail of head librarian: marfiu@inocar.mil.ec
Institution URL: http://www.inocar.mil.ec
Library URL: http://www.inocar.mil.ec

### Descriptions of library/information centre staff:
*No Info*

### Services provided by the library/information centre:
- Library (holding books, journals, etc): *Yes (No digital)*
Can users borrow materials: *Yes*
- Reading room: *Yes*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *No*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country) *No*
If yes, then specify:
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *No*
- Multimedia access (audiotape, videotape): *Yes*
- Internet access for users: *Yes*

### Products developed by the library/information centre:
Does the library/information centre develop products? (brochures, directories, posters): *Yes*
If yes, then specify and describe: *Bulletins, Guidelines, and Advisories*

**Library Catalogue**
Does the library maintain a catalogue of its holdings: *Yes (no digital)*
If yes:
Is the catalogue an electronic catalogue: *No*
If yes:
Is the catalogue a database or word-processing file: *No Info*

**Library Management Systems**
If your library uses a computerized catalogues system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL,…). In other words does your library have an Integrated Library Management System (ILMS). *No*

**Computer Infrastructure**:
Do you have computer equipment in your library: *Yes*
If yes then:
How many PCs do you have in the library: *2*
How many are used for the management of the library: *2*
How many are available to users:
Are the computers of your library networked (LAN): *Yes*
If yes, then are the library computers linked to an institutional LAN: *Yes*
If yes, then do you have access to a server where you can store files: *Yes*
Do your computer(s) have access to the Internet: *Yes*
E-mail only or e-mail + WWW: e-mail only/e-mail + WWW

**Library Holdings:**
Number of Monographs (books, reports,…) :
Number of serials: *No Info*
Number of CURRENT journal subscriptions for which you pay*: 7*
Number of CURRENT journal subscriptions, which you receive on an exchange basis: *No Info*
If exchange: specify the journal/other publication that you provide: *30*
Total shelf space in linear meters: *10 meters*

**Library Networking**
Is your Library part of a national library network: *No*
Is your Library part of an international library network: *No*
Is your Library (or yourself) a member of a professional librarian organization/society (e.g.; IAMSLIC): *No*

**Linkage with data management**
Is your library in the same institution as the ODINAFRICA data centre: *Yes*
If yes, then do you have good contacts with the data centre: *Yes*

2.7    JAMAICA

Name: *Jerome SMITH*
Address information: *See List of Participants*
URL: *No Info*
Your current job title: *Environmental Officer*
Your educational background (degrees, previous jobs): *B.Sc. – Marine Ecology*
Since when are you holding your current job: *1 year*
Since when have you worked in a library (including previous jobs): *No Info*
Do you work as information specialist full-time or part-time: *No Info*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *No*
If no, explain why you were assigned to participate in this training course: *My institution regularly collects data, which is handed over for processing. We hope to move in the direction where we are more capable to handle information in-house (do our own analysis management of the data information).*

**Address information**
Name of the library/information centres: *No Info*
Name of Parent Organization/Institution: *No Info*
Name of head librarian: *Ms. MITOO*
Postal address: *NEPA Library. 11, Caledonia Ave., Kingston 5, Jamaica*
Tel: *754-75 47-50*
Fax: *No Info*
E-mail of the library (if applicable): *No Info*
E-mail of head librarian: *No Info*

**Descriptions of library/information centre staff:**
Number of staff in the library: *1*
Staff 1:
      Name: *Ms. MITOO*
      Position: *Head*
      Education level: *No Info*
      E-mail address: ymitoo@neda.gov.jm

**Services provided by the library/information centre:**
- Library (holding books, journals, etc): *Yes*
Can users borrow materials: *Yes*
- Reading room: *Yes*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *No Info*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country) *No Info*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *No Info*
- Multimedia access (audiotape, videotape): *No Info*

**Products developed by the library/information centre:**
Does the library/information centre develop products? (brochures, directories, posters): *No*

**Library Catalogue**
Does the library maintain a catalogue of its holdings: *Yes*
Is the catalogue an electronic catalogue: *No*

**Library Management Systems**
If your library uses a computerized catalogues system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL,…). In other words does your library have an Integrated Library Management System (ILMS). *No*

**Computer Infrastructure**:
Do you have computer equipment in your library: *No Info*

**Library Holdings:**
*No Info*

**Library Networking**
*No Info*

**Linkage with data management**
*No Info*

2.8    MEXICO

Name: *Teniente de Navío C.G. Ulises ROJAS CARRETO*
Address information: *See List of Participants*
URL: http://vos.vasnet.mx
Your current job title: *Professor, Investigador, tiempo completo*
Your educational background (degrees, previous jobs): *Biologo, maestro en ciencia pesquera*
Since when are you holding your current job: *22 anos*
Since when have you worked in a library (including previous jobs): *2 anos*
Do you work as information specialist full-time or part-time: *Tiempo parcial*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *Yes*

**Address information**
Name of the library/information centres: *Biblioteca de la Facultad de Ciencias del mar –
Universidad Autonoma de Sinaloa*
Name of Parent Organization/Institution: *Universidad Autonoma de Mexico*
Name of head librarian: *Ing. Qfb. Rosa Isola Valdes LIZARRANGA, tecnica en biblioteconomia*
Postal address: *Paseo Claussen s/n*
Tel: *01-6699-828656*
Fax: *01-6699-828656*
E-mail of the library (if applicable): *No Info*
E-mail of head librarian: rosyvaidez@yahoo.com; yvaldes@vas.vasnet.mx
Institution URL: http://facultaddecienciasdelmar.vas.usanet.mx
Library URL: http://facultaddecienciasdelmar.vas.usanet.mx

**Descriptions of library/information centre staff:**
Number of staff in the library: *3*
Staff 1:
        Name: *Rocio Maldonebo LIMORI*
        Position: *Lic. en Informatica*
        Education level: *No Info*
        E-mail address: *No Info*
Staff 2:
        Name: *Miguel Castillo LIZARRAGA*
        Position: *No Info*
        Education level: *No Info*
        E-mail address: *No Info*
Staff 3:
        Name: *Lorena Lizarraga VALDEZ*
        Position: *Lic Contabilidad*
        Education level: *No Info*
        E-mail address: *No Info*

**Services provided by the library/information centre:**
- Library (holding books, journals, etc): *Yes*
Can users borrow materials: *Yes*
- Reading room: *Yes*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *No*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country) *Yes*
If yes, then do you use electronic library loan (e.g.; using ARIEL or other scanner-based software): *Yes*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *Yes*
If yes, specify which and medium (e.g.; diskette, CD-ROM, Internet): *No Info*
- Multimedia access (audiotape, videotape): *No*
- Internet access for users: *Yes*

**Products developed by the library/information centre:**
Does the library/information centre develop products? (brochures, directories, posters): *Yes*
If yes, then specify and describe: *Carteles de revistas, periodico mural de adquisiciones*

**Library Catalogue**
Does the library maintain a catalogue of its holdings: *Yes*
If yes:
Is the catalogue an electronic catalogue: *Yes*
If yes:
Is the catalogue a database or word-processing file: WORD-PROC FILE /<u>DATABASE:</u> *SIABUC*
If Database:
Commercial software? *No Info*

**Library Management Systems**
If your library uses a computerized catalogues system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL,…). In other words does your library have an Integrated Library Management System (ILMS): *Yes*
If yes, then specify: *Siabuc.ucol.mx*

**Computer Infrastructure**:
Do you have computer equipment in your library: *Yes*
If yes then:
How many PCs do you have in the library: *2*
How many are used for the management of the library: *1*
How many are available to users: *100*
Are the computers of your library networked (LAN): *Yes*
If yes, then are the library computers linked to an institutional LAN: *Yes*
If yes, then do you have access to a server where you can store files: *Yes*
Do your computer(s) have access to the Internet: *Yes*
E-mail only or e-mail + WWW: e-mail only/e-mail + WWW

**Library Holdings:**
Number of Monographs (books, reports,…): *461 tesis, 908 Libos, 28 tilulos-revista*
Number of serials: *No Info*
Number of CURRENT journal subscriptions for which you pay: *No Info*
Number of CURRENT journal subscriptions, which you receive on an exchange basis: *No Info*
Total shelf space in linear meters: *No Info*

**Library Networking**
Is your Library part of a national library network: *No*
Is your Library part of an international library network: *No*
Is your Library (or yourself) a member of a professional librarian organization/society
(e.g.; IAMSLIC): *No*

**Linkage with data management**
Is your library in the same institution as the ODINCARSA data centre: *No*
If yes, then do you have good contacts with the data centre: *No Info*
More details:
If no, then how far is the data centre from your library: *No Info*
Do you have any contacts with the data centre? *Yes*
More details:

MEXICO 2

Name: *Maria Dolores Flores AGUILAR*
Address information: *See List of Participants*
URL: http://www.ifmarmaz.edu.mx
Your current job title: *Subdirectora de Investigacion (Research Vice-Director)*
Your educational background (degrees, previous jobs): *Master in Education, Naval Engineer*
Since when are you holding your current job: *2 years*
Since when have you worked in a library (including previous jobs):
Do you work as information specialist full-time or part-time: *Part-time, as information specialist.*
*Full-time as Research Vice-Director*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *Yes*

**Address information**
Name of the library/information centres: *Library of Instituto Tecnologico del Mar*
Name of Parent Organization/Institution: *Same*
Name of head librarian: *Altigracia Rodgriuez AGUIAR*
Postal address: *Carretera Internacional al sur Urias. Estero la Sirena s/n Mazatlan, Sin. Mexico*
Tel: *(669) 984 7209/983 8400*
Fax: *(669) 984 7209*
E-mail of the library (if applicable): *No Info*
E-mail of head librarian: *No Info*
Institution URL: http://www.itmormaz.edu.mx
Library URL: *No Info*

**Descriptions of library/information centre staff:**
Number of staff in the library: *1*
Staff 1:
      Name: *Irma LOAIZA*
      Position: *Auxiliar*
      Education level: *High school*
      E-mail address: *No Info*

**Services provided by the library/information centre:**
- Library (holding books, journals, etc): *Yes*
Can users borrow materials: *Yes*
- Reading room: *Yes*

- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *No*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country) *No*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *No*
- Multimedia access (audiotape, videotape): *No*
- Internet access for users: *No*

**Products developed by the library/information centre:**
Does the library/information centre develop products? (brochures, directories, posters): *No*

**Library Catalogue**
Does the library maintain a catalogue of its holdings: *Yes*
If yes:
Is the catalogue an electronic catalogue: *No*

**Library Management Systems**
If your library uses a computerized catalogues system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL,…). In other words does your library have an Integrated Library Management System (ILMS): *No*

**Computer Infrastructure**:
Do you have computer equipment in your library: *No*

**Library Holdings:**
Number of Monographs (books, reports,…): *9,000*
Number of serials: *850*
Number of CURRENT journal subscriptions for which you pay: *10*
Number of CURRENT journal subscriptions, which you receive on an exchange basis: *No Info*
Total shelf space in linear meters: *150m$^2$*

**Library Networking**
Is your Library part of a national library network: *No*
Is your Library part of an international library network: *No*
Is your Library (or yourself) a member of a professional librarian organization/society (e.g.; IAMSLIC): *No*

**Linkage with data management**
Is your library in the same institution as the ODINAFRICA data centre: *No*
If no, then how far is the data centre from your library: *No Info*
Do you have any contacts with the data centre: *No Info*
More details:

MEXICO 3

Name: *Roman Vera MENDOZA*
Address information: *See List of Participants*
URL: http://www.semar.gob.mx
Your current job title: *Jefe del departamento de procesamiento de datos oceanograficos*
Your educational background (degrees, previous jobs): *Biologo*
Since when are you holding your current job: *1990*
Since when have you worked in a library (including previous jobs): *No Info*
Do you work as information specialist full-time or part-time: *No Info*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre?  *Yes*

**Address information**
Name of the library/information centres: *Centro de Informacion Documental*
Name of Parent Organization/Institution: *Direccion General Adjunta de Oceanografia*
Name of head librarian: *Juan Guadarrama RAMIREZ*
Postal address: *No Info*
Tel: *56-24-65-83*
Fax: *56 24 65 86*
E-mail of the library (if applicable): *No Info*
E-mail of head librarian: *No Info*
Institution URL: http://www.semar.gob.mx
Library URL: *No Info*

**Descriptions of library/information centre staff:**
*No Info*

**Services provided by the library/information centre:**
- Library (holding books, journals, etc): *No*
Can users borrow materials: *No*
- Reading room: *No*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *No Info*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country) *No Info*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *No Info*
- Multimedia access (audiotape, videotape): *No Info*
- Internet access for users: *No Info*

**Products developed by the library/information centre:**
Does the library/information centre develop products? (brochures, directories, posters): *No*

**Library Catalogue**
*No Info*

**Library Management Systems**
*No Info*

**Computer Infrastructure**:
*No Info*

**Library Holdings:**
*No Info*

**Library Networking**
*No Info*

**Linkage with data management**
*No Info*

2.9    NICARAGUA

Name: *Sergio Antonio Cordoneo GONZALEZ*
Address information: *See List of Participants*

URL: http://ineter.gob.ni
Your current job title: *Responsable Direccion Hidrografia*
Your educational background (degrees, previous jobs): *Tecnico Hidrografo, Geodesia y Cartografia*
Since when are you holding your current job: *No Info*
Since when have you worked in a library (including previous jobs): *No Info*
Do you work as information specialist full-time or part-time: *No*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre:  *No*
If no, explain why you were assigned to participate in this training course: *Conocer como se puede crear un centro de informacion de datos maritimas*

**Address information**
*No Info*

**Descriptions of library/information centre staff:**
*No Info*

**Services provided by the library/information centre:**
*No Info*

**Products developed by the library/information centre:**
*No Info*

**Library Catalogue**
*No Info*

**Library Management Systems**
*No Info*

**Computer Infrastructure**:
*No Info*

**Library Holdings:**
*No Info*

**Library Networking**
*No Info*

**Linkage with data management**
*No Info*

2.10  PANAMA

Name: *Miguel Francisco TORIZ*
Address information: *See List of Participants*
URL: http:// *No Info*
Your current job title: *Computer experience: Intermediate (average), Maintenance Engineer*
Your educational background (degrees, previous jobs): *Mechanical Electrical Engineer, Master in Industrial Administration*
Since when are you holding your current job: *1995*
Since when have you worked in a library (including previous jobs): *No Info*
Do you work as information specialist full-time or part-time: *Part-time*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *Yes. Note: While working with Gloria Balista de Vega in the installation & setup of GKSS oceanographic buoys in the Caribbean shores of Colou in Panama*

**Address information**
Name of the library/information centres: *Autoridad Maritima Nacional*
Name of Parent Organization/Institution: *No Info*
Name of head librarian: *Jorge ESPINOSA/Arnulfo FRANCO*
Postal address: *No Info*
Tel: *(507) 232 7510*
Fax: *(507) 232 6477*
E-mail of the library (if applicable): *No Info*
E-mail of head librarian: digerema@sinfo.et
Institution URL: *No Info*
Library URL: http://www.autoridadmaritima.gob.pa

**Descriptions of library/information centre staff:**
Number of staff in the library: *1*
Staff 1:
      Name: *Arnulfo FRANCO*
      Position: *General Director of Marine & Shore Resources*
      Education level: *Engineer*
      E-mail address: *No Info*

**Services provided by the library/information centre:**
- Library (holding books, journals, etc): *Yes*
Can users borrow materials: *Yes*
- Reading room: *Yes*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *No*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country) *No*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *No*
- Multimedia access (audiotape, videotape): *No*
- Internet access for users: *Yes*

**Products developed by the library/information centre:**
Does the library/information centre develop products? (brochures, directories, posters): *Yes*
If yes, then specify and describe: *They are in the process of developing the data management & library centre.*

**Library Catalogue**
*No Info*

**Library Management Systems**
If your library uses a computerized catalogues system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL,…). In other words does your library have an Integrated Library Management System (ILMS): *No*

**Computer Infrastructure**:
Do you have computer equipment in your library: *Yes*
If yes then:
How many PCs do you have in the library: *No knowledge*

**Library Holdings:**
*No Info*

**Library Networking**
Is your Library part of a national library network: *Yes*
If yes, then describe the network and what services you get from the network: *Through the National Library you can access data.*
Is your Library part of an international library network: *No*
Is your Library (or yourself) a member of a professional librarian organization/society (e.g.; IAMSLIC): *No*

**Linkage with data management**
Is your library in the same institution as the ODINAFRICA data centre: *No*
If yes, then do you have good contacts with the data centre: *No Info*

2.11   PERU

Name: *Fernando Vegas CASTANEDA*
Address information: *See List of Participants*
URL: http://www.dhn.mil.pe
Your current job title: *Hidrografo, Jefe de la Division de Oceanografia, Meteorologia y Geofisa del Departamento de Medio Ambiente*
Your educational background (degrees, previous jobs): *Hidrografo*
Since when are you holding your current job: *No Info*
Since when have you worked in a library (including previous jobs): *No Info*
Do you work as information specialist full-time or part-time: *No Info*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *No, se esta implementando*
If no, explain why you were assigned to participate in this training course: *Con la experiencia que puede obtenerse en este curso optimizar nuestra informacion para poder manjar luego nuestra base de datos*

**Address information**
Name of the library/information centres: *Biblioteca de la Direccion de Hidrografia y Navegacion*
Name of Parent Organization/Institution: *Direccion de Hidrografia y Navegacion*
Name of head librarian: *No Info*

**Descriptions of library/information centre staff:**
*No Info*

**Services provided by the library/information centre:**
- Library (holding books, journals, etc): *Yes*
Can users borrow materials: *Yes*
- Reading room: *Yes*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *No Info*
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country) *No Info*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *No Info*
- Multimedia access (audiotape, videotape): *No Info*
- Internet access for users: *Yes*

**Products developed by the library/information centre:**
Does the library/information centre develop products? (brochures, directories, posters): *No Info*

**Library Catalogue**
Does the library maintain a catalogue of its holdings: *Yes*
If yes:
Is the catalogue an electronic catalogue: *No*

**Library Management Systems**
*No Info*

**Computer Infrastructure**:
Do you have computer equipment in your library: *Yes*
If yes then:
How many PCs do you have in the library: *1*
How many are used for the management of the library: *No Info*
How many are available to users: *Todos los que trabajan en la DHN*
Are the computers of your library networked (LAN): *No Info*
If yes, then are the library computers linked to an institutional LAN: *No Info*
If yes, then do you have access to a server where you can store files: *No Info*
Do your computer(s) have access to the Internet: *No Info*
E-mail only or e-mail + WWW: *No Info*

**Library Holdings:**
*No Info*

**Library Networking**
*No Info*

**Linkage with data management**
*No Info*

2.12  SAINT LUCIA

Name: *Patricia HUBERT*
Address information: *See List of Participants*
URL: http:// *No Info*
Your current job title: *Fisheries Assistant*
Your educational background (degrees, previous jobs): *'O' Levels*
Since when are you holding your current job: *Working in the data section for 8 years, current past 2 years.*
Since when have you worked in a library (including previous jobs): *No Info*
Do you work as information specialist full-time or part-time: *Full-time*.

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *No*
If no, explain why you were assigned to participate in this training course: *So that we can better use & store the information we gather. So that the information we gather does not remain in computers or in storage but maximum use is made of this information.*

**Address information**
*No Info*

**Descriptions of library/information centre staff:**
*No Info*

**Services provided by the library/information centre:**
*No Info*

**Products developed by the library/information centre:**
*No Info*

**Library Catalogue**
*No Info*

**Library Management Systems**
*No Info*

**Computer Infrastructure**:
*No Info*

**Library Holdings:**
*No Info*

**Library Networking**
*No Info*

**Linkage with data management**
*No Info*


2.13   TRINIDAD & TOBAGO


Name: *Donna Spencer*
Address information: *See List of Participants*
URL: http://www.ima.gov.tt
Your current job title: *Chief Information Officer*
Your educational background (degrees, previous jobs): *B.A. Hons. Combined studies –
Environmental studies/sociology; MSc. – Environmental Science – GWU/University of London.*
Since when are you holding your current job: *January 1998*
Since when have you worked in a library (including previous jobs): *The library of the IMA is a part
of the Information Centre that I manage. I am not a Librarian but the Library management is part
of my responsibilities.*
Do you work as information specialist full-time or part-time: *Part-time; since my other
responsibilities are Education (Public & Community) & other things.*

**Institutional Capacity Assessment Survey**
Does your institution have an ocean related library/information centre: *Yes, Library – part of the
Information Centre.*
If no, explain why you were assigned to participate in this training course: *(IMA has a Librarian –
new recruit – who reports to the CIO). At present, oversight of library operations is one of my
responsibilities.*

**Address information**
Name of the library/information centres: *Library as above*.
Name of Parent Organization/Institution: *Institute of Marine Affairs*.
Name of head librarian: *Ms. Michele GOBIN*
Postal address: *Library, Institute of Marine Affairs. P.O. Box 3160, Carenage, Trinidad & Tobago.*
Tel: *(868) 634 4291/4, Ext: 403*

Fax: *(868) 634 4433*
E-mail of the library (if applicable): library@ima.gov.tt
E-mail of head librarian: mgobin@ima.gov.tt
Institution URL: http://www.ima.gov.tt
Library URL: http://www.ima.gov.tt

## Descriptions of library/information centre staff:
Number of staff in the library: *2*
Staff 1:
>  Name: *Michele GOBIN*
>  Position: *Librarian*
>  Education level: *M.Sc.*
>  E-mail address: mgobin@ima.gov.tt

Staff 2:
>  Name: *Shelley LEWIS*
>  Position: *Library Assistant*
>  Education level: *'O' Levels*
>  E-mail address: library@ima.gov.tt

Information Centre: *2*
Staff 3:
>  Name: *Susan SHURLAND-MAHARAJ*
>  Position*: Information Officer/Public Relations Officer*
>  Education level: *MSc.*
>  E-mail address: shurland@ima.gov.tt

Staff 4:
>  Name: *Nicola GHOURALAL*
>  Position: *Information Officer*
>  Education level: *MSc.*
>  E-mail address: nghouralal@ima.gov.tt

## Services provided by the library/information centre:
- Library (holding books, journals, etc): *Yes*
Can users borrow materials: *Yes, staff of the IMA may borrow; Library open to public – copying services available; limited number of outsiders (UWI students) may borrow with permission.*
- Reading room: *Yes*
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): *Yes – very limited at present*.
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country) *No*
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...): *Yes*
If yes, specify which and medium (e.g.; diskette, CD-ROM, Internet): *No Info*
- Multimedia access (audiotape, videotape): *No Info*
- Internet access for users: *Yes*

## Products developed by the library/information centre:
Does the library/information centre develop products? (brochures, directories, posters): *Yes*
If yes then specify and describe: *Brochures, directories, posters, acquisitions listings to staff (standard).*

## Library Catalogue
Does the library maintain a catalogue of its holdings: *Yes, MARIMA database; smaller databases – THETIS – reprints; CAROC – Caribbean Oceanography (??? Not yet integrated in MARIMA; TOCMO – print only; Caribbean marine taxonomy.*

If yes:
Is the catalogue an electronic catalogue: *Yes*
If yes:
Is the catalogue a database or word-processing file:  WORD-PROC FILE /<u>DATABASE</u>
Commercial software: *Yes*
If yes, then specify: *MINISIS software*.
If yes, then what field formats do you use (e.g.; MARC, ASFA, custom format):
What classification system do you use for your library holdings? *Library of Congress*.

## Library Management Systems
If your library uses a computerized catalogues system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL,…). In other words does your library have an Integrated Library Management System (ILMS): *Yes, recently acquired. Not all of the functions – e.g.; acquisitions, not in use yet.*
If Commercial software, then specify: *MINISIS*.

## Computer Infrastructure:
Do you have computer equipment in your library: *Yes*
If yes then:
How many PCs do you have in the library: *1 (2ⁿᵈ on order)*
How many are used for the management of the library: *1*
How many are available to users: *1*
Are the computers of your library networked (LAN): *Yes*
If yes, then are the library computers linked to an institutional LAN: *Yes*
If yes, then do you have access to a server where you can store files:  *Yes*
Do your computer(s) have access to the Internet: *Yes*
E-mail only or e-mail + WWW: e-mail only/e-mail + WWW

## Library Holdings:
Number of Monographs (books, reports,…): *Catalogued records – 11,600 approx.*
Number of serials:
Number of CURRENT journal subscriptions for which you pay: *37, also 14 gratis (although many of those are in Spanish or other languages).*
Number of CURRENT journal subscriptions, which you receive on an exchange basis: *15*
If exchange: specify the journal/other publication that you provide: *No Info*
Total shelf space in linear meters: *No Info*

## Library Networking
Is your Library part of a national library network: *No*
Is your Library part of an international library network: *No*
Is your Library (or yourself) a member of a professional librarian organization/society (e.g.; <u>IAMSLIC</u>): *Yes*

## Linkage with data management
Is your library in the same institution as the ODINCARSA data centre: *Yes*
If yes, then do you have good contacts with the data centre: *Yes*
More details:
If no, then how far is the data centre from your library: *Same building. Network (LAN) set up in last year & data management being looked at now. Manual database formatting currently (CD ROMs/zip disks) – network not being used for this purpose yet.*
Do you have any contacts with the data centre: *Yes*
More details: *Both part of IMA; Responsibility for data management resides with the Information Technology Department.*

## 3. DISCUSSIONS

The survey results clearly indicate a substantive lack of information management capacity in many of the ODINCARSA participating institutions. However, insufficient information was available from the participants to assess whether this problem was national rather than institutional. It was therefore recommended to carry out a more extensive survey at the national level in all ODINCARSA co-operating countries.

In order to discuss the essential elements to be addressed in the ODINCARSA MIM work plan four discussion sessions were held. For the first discussion session the group was divided in two. Both were requested to identify users, what services should be provided to the users, and how the information centre should provide the services. The second and third discussion session integrated the results of the two groups and identifies steps that should be taken to create and operate a marine information library/information centre:

Step 1: identify the users;
Step 2: identify the information needs of the users;
Step 3: identify information services that will respond to the needs.

Required services were defined as:
- Book loans
- Electronic catalogues
- Internet access
- Access to infobases (through the Internet or on CD-ROM)
- Inter Library Loan (ILL)
- Photocopying
- Information searching
- Portals
- Bibliographies
- Printed or e-bulletins
- User training
- Web site(s), brochures, bulletins

Step 4: identify elements to carry out the services:

- Information resources
  Books; journals; technical reports; printed or e-journals; infobases; catalogues; directories; audiovisual materials; co-operative exchange programmes,…
- Institutional support
  budget; strengthening links between information centre and data centre (NODC); strengthening links with decision makers
- Technology & know-how
  ICT; high bandwidth Internet access; efficient access to infobases; standard formats; efficient links between information centres (e.g.; IAMSLIC listserv); cataloguing and classification systems, thesauri, etc.; integrated library management system (ILMS); co-operative acquisition programmes; co-operative exchange programmes,…
- Human resources
  Information specialist; marine science specialist; computer specialist.
- Material resources
  Hardware; physical space; furniture, etc.

Subsequent discussions then brought together the results of all previous discussions into a table that described (i) service; (ii) local capacity required to provide the service; and (iii) ODINCARSA activity that will assist in the provision of the services.

| Service | Local capacity required | ODINCARSA Regional activities |
|---|---|---|
| **INFORMATION LOCATOR SERVICES** | | |
| **1. Bibliographic search tools** (e.g.; ASFA) | • PC, Internet access<br>• Librarian experienced in search techniques related to acquired technology | • negotiate lower pricing with search tool producers;<br>• identify possible ASFA input centres<br>• include search training in MIM training courses/OceanTeacher |
| **2. Special bibliographies** (e.g.; El Niño, HABs, coral reefs, …) | • PC, Internet access, bibliographic search tools | • identify subject areas of interest to users at regional level<br>• Develop specific regional bibliographies |
| **3. Local library catalogue** | • PC, Library Management System software, thesaurus/categorization scheme)<br>• Experience of librarian and library staff on ILMS use | • identify unified database format (based on existing standards and existing catalogues in the region)<br>• identify ILMS software suitable for the libraries in the region (taking into consideration migration of existing catalogues)<br>• develop online regional catalogue based upon national catalogues<br>• give special attention to local material (including grey literature)<br>• include search training in MIM training courses/OceanTeacher |
| **4. Library collection development** | • Purchasing of journals (printed)<br>• Purchasing of e-journals: requires PC and Internet | • investigate possibilities for group purchasing<br>• survey existing journal subscriptions (including exchange copies) and prepare<br>• regional catalogue of journal collections (including current and terminated)<br>• identify list of required journals<br>• identify developing nations initiatives<br>• supporting library collection development |
| **5. Inter Library Loan** (nationally and regionally) | • PC, scanner, ILL software<br>• Membership of national, regional or international ILL network<br>• 'informal network': contacts with other Infrastructure (e-mail)<br>• Access to other library catalogues<br>• Access to directories of libraries | • participation in librarian conferences (e.g.; IAMSLIC);<br>• identify suitable ILL software and investigate group purchase;<br>• establish ODINCARSA ILL network<br>• ODINCARSA members to become IAMSLIC members and get access to IAMSLIC ILL service<br>• establish ODINCARSA regional directory of libraries and information centres |

| Service | Local capacity required | ODINCARSA Regional activities |
|---|---|---|
| **6. Web information searching** | • PC and Internet access<br>• Experience in searching portals | • set up ODINCARSA sub-portal of OceanPortal collecting web sites in ODINCARSA member countries (including sub-regional index) |
| **7. Expert locator** | • PC and Internet access<br>• Access to expert directories (national, regional, global) | • ODINCARSA member institutions to identify all national marine-related institutions;<br>• promote OceanExpert at national level and stimulate national experts to enter data;<br>• provide OceanExpert posters to institutions in ODINCARSA region;<br>• set up ODINCARSA page to OceanExpert (filtering out ODINCARSA member countries, enabling data entry and regional group email) - ensure bilingual interface E, S |
| **ALERT SERVICES AND AWARENESS** | | |
| **8. Library acquisition alerts** | • PC, Internet access | • investigate subscriptions to alert services (e.g.; Current Contents,…)<br>• develop own alert systems & host them in own portal (see also 9) |
| **9. Web sites & portals** | • PC, web server, continuous broadband Internet access for server<br>• Expertise in establishing and maintaining web sites | • maintain ODINCARSA web site (existing) and add marine information section;<br>• establish regional portal (and include all tools developed under above sections) – identify suitable software (BeeBox)<br>• establish search engine that enables searching of all national web sites (see 6)<br>• training in web page/site development |
| **10. Brochures, leaflets** | • PC, DTP software, printing service<br>• Expertise in public information tool development | • Developing a Newsletter (brief & bilingual) |
| **USER ASSISTANCE AND USER TRAINING** | | |
| **11. Carrying out searches** | • Sufficient scientific expertise to understand user and translate requirements into search strategy | • investigate need and possibility of internships for starting librarians |
| **2. Training users in use of tools** | • User training carried out by librarian | none |

## 4.  WORKPLAN AND BUDGET

On the basis of the discussions reported on under 3, the following ODINCARSA MIM Work Plan as agreed upon by the participants for implementation between November 2002 and December 2003.

### 4.1  BIBLIOGRAPHIC SEARCH TOOLS

| Item | Action to be taken and by whom |
|---|---|
| • Negotiate lower pricing for search tools such as ASFA | • IOC to contact Cambridge Scientific Abstracts (CSA) and ASFA Board; |
| • Identify potentially new ASFA input centres in the ODINCARSA region | • ODINCARSA partners to survey national journals and other possible input materials;<br>• ODINCARSA partners to study their capability to become ASFA input centre;<br>• Submit proposals to ASFA Board (< June 2003); |

### 4.2  SPECIAL BIBLIOGRAPHIES

| Item | Action to be taken and by whom |
|---|---|
| • Identify subject subjects of interest at national level for which regional information is required | • ODINCARSA partners survey national needs for regional bibliographies; |
| • Develop bibliographies | • Jointly develop and distribute bibliographies; |

### 4.3  LOCAL LIBRARY CATALOGUE

| Item | Action to be taken and by whom |
|---|---|
| • Identify unified catalogue database format | • Survey existing formats used in the ODINCARSA partner countries;<br>• Jointly agree on standard format taking into consideration international standards (e.g.; MARC), as well as existing catalogues and their migration to standard format; |
| • Identify suitable integrated library management software (ILMS) | • Survey existing ILMS in the ODINCARSA partner countries;<br>• Compare existing ILMS with standard requirements ILMS (in consultation with IODE GE-MIM) and with special attention to web-based serving and Z39.50 compatibility;<br>• Identify suitable ILMS for ODINCARSA partner countries taking into consideration cost of acquisition, cost of migration, cost of training and maintenance;<br>• Identify funding source for selected ILMS (as required);<br>• Distribute selected ILMS;<br>• Provide training (as required) |

| Item | Action to be taken and by whom |
|---|---|
| • Develop national & regional catalogue | • ODINCARSA national partners to provide training at national level as required;<br>• National institutions to develop institutional catalogues;<br>• ODINCARSA national partners to co-ordinate development national catalogue (merged national catalogue or through Z39.50)<br>• ODINCARSA national partners to agree on and implement regional union web-based catalogue (through central server or Z39.50); |

## 4.4   LIBRARY COLLECTION DEVELOPMENT

| Item | Action to be taken and by whom |
|---|---|
| • Purchasing of (e-) journals | • ODINCARSA national partners to carry out institutional/national survey of available journals (current and not current);<br>• ODINCARSA national partners to carry out survey of required journals at institutional/national level;<br>• IOC, with assistance from IAMSLIC, to negotiate terms of acquisition with publishers and relevant international projects; |

## 4.5   INTER LIBRARY LOAN NETWORK DEVELOPMENT

| Item | Action to be taken and by whom |
|---|---|
| • Establishing ODINCARSA ILL network | • ODINCARSA national partners in co-operation with IAMSLIC and IOC to identify and distribute suitable ILL software (Prospero, Ariel);<br>• ODINCARS national partners to develop regional directory of marine libraries and information centres (IOC to set up necessary database management system and host directory as required). This action is also relevant to other items;<br>• ODINCARSA national partners to survey if required equipment and internet connectivity is available at institutional/national level;<br>• ODINCARSA national partners (and other national institutions) to agree on national/regional ILL services; |
| • Membership of ILL networks | • ODINCARSA national partners (and other national institutions) to become IAMSLIC members as required;<br>• IOC and other agencies to sponsor memberships as required. |

## 4.6   WEB INFORMATION SEARCHING

| Item | Action to be taken and by whom |
|---|---|
| • Development of ODINCARSA Ocean Portal | • IOC to establish OceanPortal sub-portal for ODINCARSA region with its own homepage;<br>• ODINCARSA national partners to seek and submit URLs for the portal with emphasis on marine information sources from the ODINCARSA region. |

## 4.7   EXPERT LOCATOR

| Item | Action to be taken and by whom |
|---|---|
| • Develop ODINCARSA regional directory of ocean experts | • IOC to establish ODINCARSA sub-directory of OceanExpert with its own homepage (and bilingual English/Spanish user interface);<br>• ODINCARSA national partners to promote ODINCARSA OceanExpert at institutional and national level and ensure substantial coverage for their country;<br>• ODINCARSA national partners to quality control institutional and individual records. |

## 4.8   LIBRARY ALERT SERVICES

| Item | Action to be taken and by whom |
|---|---|
| • Incoming alert services | • IOC in co-operation with IAMSLIC to provide information on free alert services provided by Publishers (post information on ODINCARSA MIM web site); |
| • Outgoing alert services | • ODINCARSA national partners to establish alert service for ODINCARSA community (through ODINCARSA MIM web site and portal). |

## 4.9   WEB SITES, PORTALS AND COMMUNICATION

| Item | Action to be taken and by whom |
|---|---|
| • Development of ODINCARSA web site | • IOC to establish ODINCARSA web site based on BeeBox CMS with bilingual English/Spanish user interface;<br>• IOC to provide training material in English and Spanish;<br>• ODINCARSA national partners to identify editors and Chief Editor;<br>• ODINCARSA national partners to contribute content; |
| • Establish ODINCARSA listserv | • IOC to establish ODINCARSA MIM listserv; |
| • ODINCARSA marine information centre search engine | • IOC to develop search engine enabling searching of all ODINCARSA national partner (and other national) marine information libraries. |

## 4.10  NEWSLETTERS AND OTHER PUBLIC RELATION TOOLS

| Item | Action to be taken and by whom |
|------|-------------------------------|
| • Publish ODINCARSA newsletter | • ODINCARSA national partners to identify editorial team and Newsletter Chief Editor;<br>• ODINCARSA editorial team to prepare Terms of Reference for the newsletter, target audience, estimated print-run, and costing;<br>• IOC to study financing options for production; |
| • Thematic packages | • ODINCARSA national partners to develop thematic information packages on subjects that are relevant to decision makers and the general public |

## 4.11  TRAINING

| Item | Action to be taken and by whom |
|------|-------------------------------|
| • Librarian internship | • ODINCARSA national partners to study the need for internships for starting libraries; |
| • ODINCARSA MIM training courses | • The group decided that the next ODINCARSA training course should not be held before 2004 in order to enable the development of the above action items with the available budget. |

## 4.12  BUDGET

It was decided not to attempt to draft a detailed budget due to the fact that insufficient information was available with regard to the available and required resources at the institutional and national level. It was noted that some information was already available from a survey carried out by Mrs. Guillermina Cosulich (INIDEP, Argentina) who surveyed 17 institutions in South America.

The Group was informed that the total budget available from the UNESCO Regular Programme for Ocean Services: IODE: Regions and TEMA for the year 2003 amounted to US$ 46,000. It was proposed that 50% of this amount should be allocated to ODINCARSA-MIM. It was proposed that the 2003 budget should include funding for (i) development and maintenance of the ODINCARSA web site (approx. US$ 6000); (ii) travel or co-ordinators and regional resource persons (US$ 5000); (iii) support to strengthen national capabilities (e.g.; software, Internet access…) (US$ 5000); and (iv) support to participate in IAMSLIC 2003 conference (US$ 7000).

However, it was pointed out that IODE-XVII (March 2003) may decide to allocate part of these funds to other regional activities. It was stressed that additional funding would have to be identified from other sources and that this would require the development of one or more project proposals.

In order to develop such proposals it was agreed that several steps would need to be taken during the next six months:

(i)     carry out detailed survey on national marine information management capabilities and requirements (taking into consideration INIDEP survey);

(ii)    joint drafting of relevant project proposals for the development and/or strengthening of national marine information management capability, with special attention to regional

> networking as agreed during the First ODINCARSA Training Course in Marine Information Management;

(iii) identification of donors (jointly by ODINCARSA national partners, IOC) with possible collaboration from IAMSLIC and other interested parties;

(iv) submit proposals to donors;

It was noted that, if possible, a first draft of the proposal(s) should be made available not later than 1 January 2003 for discussion (and approval) during IODE-XVII (Paris, 3- 7 March 2003). This would then also enable the IOC Assembly to endorse the document(s).

## 5.   ODINCARSA MIM CO-ORDINATION

It was noted that ODINCARSA is currently co-ordinated by Mr. Rodney Martinez (Ecuador). Mr. Martinez co-ordinates both the data and information components of ODINCARSA. The Group requested Mr. Martinez to continue the co-ordination of the marine information management component of ODINCARSA but also decided to nominate a MIM Regional Sub-Coordinator for the Caribbean islands. This was deemed necessary due to the fact that because of the small size of the concerned countries, the current ODINCARSA national co-ordinators are often unable to respond in a timely fashion to queries from the ODINCARSA Regional Co-ordinator. It was expected that a Sub-Coordinator for and from that region would be able to give the special attention needed.

The Group requested Mrs. Donna Spencer (Trinidad & Tobago) to undertake this task, which she accepted. The ODINCARSA-MIM Regional Co-ordinator for the Caribbean Islands will strive to increase participation of the Caribbean islands in the ODINCARSA project.

## 6.   CHANGED ROLE OF THE LIBRARIAN

The Group stressed that there is a substantial lack of knowledge at almost all levels of institutional management about the changed role of the library and the librarian and their importance in the process of scientific research.

Until the 'technological revolution' started by the PC in the 1980s **a library** could be described as :

- A collection of books, journals and other printed material;
- Users search through card catalogue;
- Users make copies of papers;
- Users borrow books.

The **librarian** was a 'technician' in charge of indexing, cataloguing, acquiring, shelving and preserving documents'.

The **technology** at the disposal of the librarian consisted of:

- Card catalogue ;
- Microfiche/microfilm ;
- In some cases: mainframe/minicomputer for data entry and retrieval.
- card catalogue
- microfiche/microfilm
- in some cases : mainframe/minicomputer for data entry and retrieval

Today's **library** can be described as follows

- A collection of books, journals, and other printed material + e-library: hybrid library;
- Users search electronic catalogue in the library or at user's desk;
- Users find documents with MULTIPLE bibliographic tools;
- Users get documents through ILL or full-text online;
- Users access other 'knowledge types' such as news, events calendar, expert info, data, metadata…

The **librarian** has now become an 'information specialist' with a wide range of expertise.

The **technology** at the disposal of today's librarian includes:

- Electronic Integrated Library Management system (catalogue, acquisitions, text retrieval, serials management, circulation, inter library loan…);
- Electronic bibliographic search tools (multiple platforms);
- Internet-based information retrieval (with extensive knowledge of multiple search logic);
- Internet-based document retrieval and management;
- Electronic document management (create, edit, scan, convert);
- Document recovery and preservation;
- Distributed database management (e.g.; Z39.50).

The new roles and responsibilities make today's librarians **'information experts who play an important role in research as aggregator of different knowledge types and guide to information'** and this should be reflected in the level of authority and impact on management.

It was further stated that today's marine information management requires access to different types of expertise:

- Subject expertise (marine scientist);
- Information management expertise (library management professional)
- Information technology expertise (computer expert);
- Public Information Expertise (public information expert).

It is essential that this expertise is available at the institutional level and that the marine information library/information centre has access to all these expertise levels or, for larger institutions, has this expertise in its staff allocation.


## 7. TAKE-HOME CD-ROM

In order to enable the participants to review the course material used during this first session, a copy of the OceanTeacher CD-ROM was distributed. This CD also contained all course documentation, as well as PowerPoint presentations related to ODINCARSA but not included in OceanTeacher.

## 8.  CLOSURE

The First ODINCARSA Training Course in Marine Information was closed on Friday 4 October 2002 by Dr. Adolfo Gracia, Director of the Unidad Académica Mazatlán del Instituto de Ciencias del Mar y Limnologia, U.N.A.M.

In his closing words, Mr. Peter Pissierssens expressed his sincere gratitude to the host institution, emphasizing that the Unidad Académica Mazatlán del Instituto de Ciencias del Mar y Limnologia had contributed substantially to the successful implementation of the course by providing, free of charge, all equipment, as well as refreshments. He also expressed his gratitude to the institution's technical team including Mr. German Ramírez, y María Clara Ramírez and commended the team for their expertise and efficient assistance throughout the week.

ANNEX I

**COURSE PROGRAMME**

Monday, 30 September

09:00 -09:30   **Welcoming Address** by representative(s) of local host institution and by IOC
09:30-10:00    **Introduction of Instructors and Participants**
10:00-10:30    Participants to Complete **Workshop Survey** of their Libraries/Information
                Centres
10:30-11:00    Coffee break
11:00-11:15    **Course Overview and OceanTeacher**
                Lecturer: Peter Pissierssens
11:15-11:45    **Introduction to IODE**
                Lecturer: Peter Pissierssens
11:45-12:30    **Overview of the ODINCARSA Project**
                Lecturer: Rodney Martinez
12:30-14:00    Lunch break
14:00-15:30    **The State of Marine Information Today and the Role of the**
                **Librarian/Information Manager**
                Lecturer: Linda Pikula
                **Information Audit:  Evaluating the Need for an Information**
                **Centre** Lecturer: Linda Pikula
                Material Author:  Murari Tapasawi
15:30-16:00    Coffee break
16:00-17:00    **Discussions on ODINCARSA Marine Information Management**
                **Work Plan (first round)**
                Moderators: Rodney Martinez/Peter Pissierssens

Tuesday, 1 October

09:00-10:30    **The State of Marine Information in Latin America**
                Moderators: Linda Pikula & Peter Pissierssens
10:30-11:00    Coffee break
11:00-12:30    **Establishing a Business Plan for Your Information Centre**
                Lecturer: Linda Pikula
                Material author: Linda Pikula
12:30-14:00    Lunch break
14:00-15:30    **Discussions on ODINCARSA Marine Information Management**
                **Work Plan (second round)**
                Moderators: Rodney Martinez/Peter Pissierssens
15:30-16:00    Coffee break
16:00-17:00    **Discussions on ODINCARSA Marine Information Management**
                **Work Plan (second round)**
                Moderators: Rodney Martinez/Peter Pissierssens

Wednesday, 2 October

| | |
|---|---|
| 9:00-10:30 | **Building and Documenting a Collection**<br>Lecturer: Linda Pikula<br>Material author: Pauline Simpson |
| 10:30-11:00 | Coffee break |
| 11:00-12:30 | **Building and Documenting a Collection (continued)**<br>Lecturer:  Linda Pikula<br>Material author: Pauline Simpson |
| 12:30-14:00 | Lunch break |
| 14:00-15:00 | **OceanPortal, OceanExpert, BeeBox & OceanTeacher**<br>Lecturer: Peter Pissierssens |
| 15:00-17:00 | **Discussions on ODINCARSA Marine Information Management Work Plan (third round)**<br>Moderators: Rodney Martinez/Peter Pissierssens |

Thursday, 3 October

| | |
|---|---|
| 9:00-10:30 | **Information Resources in Marine Science with Emphasis on Electronic Resources**<br>Lecturer: Pauline Simpson<br>Material author: Pauline Simpson |
| 10:30-11:00 | Coffee break |
| 11:00-12:30 | **Information Resources in Marine Science with Emphasis on Electronic Resources (continued)**<br>Lecturer: Pauline Simpson<br>Material Author: Pauline Simpson |
| 12:30-14:00 | Lunch break |
| 14:00-15:30 | **Resource Sharing Tools and Practices**<br>Lecturer: Steve Watkins<br>Material Author:  Steve Watkins |
| 15:30-16:00 | Coffee break |
| 16:00–17:00 | **Document Delivery Options**<br>Lecturer: Steve Watkins<br>Material Author:  Steve Watkins |
| Evening: | Group Dinner |

Friday, 4 October

09:00-12:30    **Presentations by Invited Experts:**

**DEVELOPING CONNECTIONS**

Guillermina Cosulich – Latin American Experience,
Pauline Simpson – EURASLIC and IAMSLIC,
Jane Barnwell – IFLA, International Federation of Library
Associations
Experiences Starting/Organizing a Small Marine Science Library
Amelia Chavez and Steve Watkins
Clara Ramirez: UNAM-Mazatlan library

12:30-14:00   Lunch break
14:00-16:30   **Discussions on ODINCARSA Marine Information Management
              Work Plan (final round)**
16:30-17:00   Drink offered by Unidad Académica Mazatlán del Instituto de Ciencias
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ANNEX II

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**IOC SECRETARIAT**

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ANNEX III

## INSTITUTIONAL SURVEY

### Information on yourself
Name (surname in uppercase if applicable):
Institution:
Address:
P.O. box:
City:
State:
Country:
Tel :
Fax:
E-mail:
URL: http://
Your current job title:
Your educational background (degrees, previous jobs):
Since when are you holding your current job:
Since when have you worked in a library (including previous jobs):
Do you work as information specialist full-time or part-time?

### Institutional Capacity Assessment Survey
Does your institution have an ocean related library/information centre?  YES NO

### Address information
Name of the library/information centres:
Name of Parent Organization/Institution:
Name of head librarian:
Postal address:
Tel:
Fax:
E-mail of the library (if applicable):
E-mail of head librarian:
Institution URL: http://
Library URL: http://

### Descriptions of library/information centre staff:
Number of staff in the library:
Staff 1:
      Name:
      Position:
      Education level:
      E-mail address:
Staff 2:
      Name:
      Position:
      Education level:
      E-mail address:

Staff 3:
        Name:
        Position:
        Education level:
        E-mail address:

Staff 4:
        Name:
        Position:
        Education level:
        E-mail address:

## Services provided by the library/information centre:

- Library (holding books, journals, etc): YES NO
Can users borrow materials? YES NO
- Reading room: YES NO
- National Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries in your country): YES NO
- International Interlibrary Loans ILL (enabling patrons to obtain materials from other libraries outside your country): YES NO
If yes, then do you use electronic library loan (e.g.; using ARIEL or other scanner-based software): YES NO
If yes, then specify:
- Access to bibliographic search tools (e.g.; ASFA, Science Citation Index,...):YES NO
If yes, specify which and medium (e.g.; diskette, CD-ROM, Internet):
- Multimedia access (audiotape, videotape): YES NO
If yes: specify and describe:
- Internet access for users: YES NO

## Products developed by the library/information centre:

Does the library/information centre develop products? (brochures, directories, posters): YES NO
If yes, then specify and describe:

## Library Catalogue

Does the library maintain a catalogue of its holdings? YES NO
If yes:
Is the catalogue an electronic catalogue? YES NO
If yes:
Is the catalogue a database or word-processing file?  WORD-PROC FILE /DATABASE
If Word-processing file then describe:
If Database:
Commercial software? YES NO
If yes, then specify:
If yes, then what field formats do you use (e.g.; MARC, ASFA, custom format):
If no:
Describe the database system:
What field format do you use (e.g.; MARC, ASFA, custom format)?
What classification system do you use for your library holdings?

## Library Management Systems

If your library uses a computerized catalogues system then do you use this system also to manage other parts of the library services (e.g.; serials, acquisitions, ILL,…)? In other words does your library have an Integrated Library Management System (ILMS)? YES NO

If yes then:

If Commercial software, then specify:

If no then:

Describe:

## Computer Infrastructure:

Do you have computer equipment in your library? YES NO

If yes then:

How many PCs do you have in the library?

How many are used for the management of the library?

How many are available to users?

Are the computers of your library networked (LAN)? YES NO

If yes, then are the library computers linked to an institutional LAN? YES NO

If yes, then do you have access to a server where you can store files? YES NO

Do your computer(s) have access to the Internet? YES NO

E-mail only or e-mail + WWW? e-mail only/e-mail + WWW

## Library Holdings:

Number of Monographs (books, reports,…) :

Number of serials:

Number of CURRENT journal subscriptions for which you pay:

Number of CURRENT journal subscriptions which you receive on an exchange basis:

If exchange, specify the journal/other publication that you provide:

Total shelf space in linear meters:

## Library Networking

Is your Library part of a national library network? YES NO

If yes, then describe the network and what services you get from the network:

Is your Library part of an international library network? YES NO

If yes, then describe the network and what services you get from the network:

Is your Library (or yourself) a member of a professional librarian organization/society (e.g.; IAMSLIC)? YES NO

If yes, then specify:

## Linkage with data management

Is your library in the same institution as the ODINAFRICA data centre? YES NO

If yes, then do you have good contacts with the data centre? YES NO

More details:

If no, then how far is the data centre from your library?

Do you have any contacts with the data centre?

More details:

# IOC Training Course Reports

| No. | Title | Language |
|---|---|---|
| 1. | IOC Indian Ocean Region Training Course in Petroleum Monitoring<br>Perth, 18 February-1 March 1980 | English |
| 2. | IOC Regional Training Course for Marine Science, Technicians<br>Cape Ferguson, Queensland, 1-28 June 1980 | English |
| 3. | ROPME-IOC-UNEP Training Workshop on Oceanographic Sampling Analysis, Data handling and Care of Equipment,<br>Doha, Qatar, 3-15 December 1983 | English |
| 4. | Stage COI d'initiation à la gestion et au traitement de l'information scientifique et technique pour l'océanologie,<br>Brest, France, 28 novembre - 9 décembre 1983 | French |
| 5. | Curso mixto COI-OMM de formación sobre el Sistema Global Integrado de Servicios Oceánicos (SGISO),<br>Buenos Aires, Argentina, 15-26 de octubre de 1984 | Spanish |
| 6. | UNESCO-IOC-NBO Training Course on Tidal Observations and Data Processing<br>Tianjin, China, 27 August - 22 September 1984 | English |
| 7. | Stage COI sur la connaissance et la gestion de la zone côtière et du proche plateau continental<br>Talence, France, 18 septembre - 4 octobre 1984 | French |
| 8. | IOC Regional Training Course on Marine Living Resources in the Western Indian Ocean<br>Mombasa, Kenya, 27 August - 22 September 1984 | English |
| 9 | IOC-UNESCO Summer School on Oceanographic Data, Collection and Management<br>Erdemli, Icel, Turkey, 21 September - 3 October 1987 | English |
| 10. | IOC-UNESCO Regional Training Workshop on Ocean Engineering and its Interface with Ocean Sciences in the Indian Ocean Region<br>Madras, India, 17 March - 5 April 1986 | English |
| 11. | IOC-UNESCO Training Course on the Use of Microcomputers for Oceanographic Data Management<br>Bangkok, Thailand, 16 January - 3 February 1989 | English |
| 12. | IOC Advanced Training Course on Continental Shelf Structures Sediments and Mineral Resources<br>Quezon City, Philippines, 2-13 October 1989 | English |
| 13. | IOC/IODE Training Course on GF3 Data Formatting System<br>Obninsk, USSR, 14-24 May 1990 | English |
| 14. | IOC Training Course on Microcomputers and Management of Marine Data in Oceanographic Data Centres of Spanish-speaking Countries,<br>Bogotá, Colombia, 21-30 October 1991 | English & Spanish |
| 15. | IOC Advanced Training Course on Nearshore Sedimentation and the Evolution of Coastal Environments, Kuala Lumpur,<br>Malaysia, 17-29 February 1992 | English |
| 16. | First IOC Training Course on the Applications of Satellite Remote Sensing to Marine Studies<br>Caracas, Venezuela, 24-28 September 1990 | English |
| 17. | IOC-KMFRI-RECOSCIX (WIO) Regional Training Course on Microcomputer-based Marine Library Information Management,<br>Mombasa, Kenya, 10-21 August 1992 | English |
| 18. | ROPME-IOC Regional Training Course on Management of Marine Data and Information on Microcomputers for the ROPME Region,<br>Kuwait, 18-28 October 1992 | English |
| 19. | IOC-SOA Training Workshop on Environmental Effects on Benthic Communities<br>Xiamen, China, 19-23 October 1992 | English |

| No. | Title | Language |
|-----|-------|----------|
| 20. | IOC Training Course for the Global Sea Level Observing System (GLOSS) directed to the African and South American Portuguese and Spanish-Speaking Countries<br>São Paulo, Brazil, 1-19 February 1993 | English |
| 21. | IOC-SSTC-SOA Training Course on Marine Information Management and ASFA<br>Tianjin, China, 19-30 October 1992 | English |
| 22. | First IOC/IOCARIBE-UNEP Training Course on Monitoring and Control of Shoreline Changes in the Caribbean Region,<br>Port-of-Spain, Trinidad and Tobago, 21-30 July 1993 | English & Spanish |
| 23. | IOC/WESTPAC Training Course on Numerical Modelling of the Coastal Ocean Circulation<br>Matsuyama, Japan, 27 September - 1 October 1993 | English |
| 24. | IOC-JODC Training Course on Oceanographic Data Management<br>Tokyo, Japan, 28 September - 9 October 1992 | English |
| 25. | IOC-JODC Training Course on Oceanographic Data Management<br>Tokyo, Japan, 27 September - 8 October 1993 | English |
| 26. | IOC Training Course on Ocean Flux Monitoring in the Indian Ocean. Organized with the support of the Government of Germany<br>Mombasa, Kenya, 15-27 November 1993 | English |
| 27. | IOC-UNEP-SPREP Training Course on Coral Reef Monitoring and Assessment<br>Rarotonga, Cook Islands, 23 February - 13 March 1994 | English |
| 28. | IOC-JODC Training Course on Oceanographic Data Management<br>Tokyo, Japan, 26 September - 7 October 1994 | English |
| 29. | IOC-UNEP-WHO-FAO Training Course on Qualitative and Quantitative Determination of Algal Toxins<br>Jena, Germany, 18-28 October 1994 | English |
| 30. | IOC Training Course on Oceanographic Data Management for Black Sea Countries<br>Obninsk, Russian Federation, 1-12 August 1994 | English |
| 31. | COI-CEADO Curso Regional de Capacitación en Gestión de Datos e Información Oceanográficos<br>Buenos Aires, Argentina, 17-28 de octubre de 1994 | Spanish |
| 32. | IOC-UNEP-FAO Training Course on Nutrient Analysis and Water Quality Monitoring<br>Zanzibar, Tanzania, 21-26 November 1994 | English |
| 33. | IOC-IOMAC Advanced Training Course on Marine Geology and Geophysics off Pakistan.<br>Pakistan, 12-26 November 1994 | English |
| 34. | Training Course on Management of Marine Data and Information for the Mediterranean Region<br>Valletta, Malta, 10-21 April 1995 | English |
| 35. | IOC-UNEP-WHO-FAO Training Course on Toxin Chemistry and Toxicology related to Harmful Algal Blooms<br>Trieste, Italy, 3-12 September 1995 | English |
| 36. | MAST-IOC Advanced Phytoplankton Course on Taxonomy and Systematics<br>Naples, Italy, 24 September - 14 October 1995 | English |
| 37. | IOC-JODC Training Course on Oceanographic Data Management<br>Tokyo, Japan, 16-27 October 1995 | English |
| 38. | IOC/IODE Training Course on Marine Geological and Geophysical Data Management<br>Gelendzhik, Russian Federation, 13-29 September 1995 | English |
| 39. | IOC/GLOSS-GOOS Training Workshop on Sea-Level Data Analysis, Geodetic & Research Branch Survey of India,<br>Dehra Dun, India, 21 November- 1 December 1995 | English |

| No. | Title | Language |
|---|---|---|
| 40. | IOC-DANIDA Training Course on the Taxonomy and Biology of Harmful Marine Microalgæ; University of Copenhagen, Denmark, 31 July-11 August 1995; IOC-SAREC-DANIDA Training Course on the Taxonomy and Biology of Harmful Marine Microalgæ; University of Mauritius, Republic of Mauritius, 5-14 February 1996; and Annual Report 1995, IOC Science and Communication Centre on Harmful Algæ, DANIDA, University of Copenhagen, Danish Fisheries Research Institute, Danish National Environmental Research Institute | English |
| 41. | IOC-Germany Advanced Training Course on Bathymetric Charting in the Western Indian Ocean METEOR, 15-29 December 1995 | English |
| 42. | COI-SHOA-CICESE Curso Sobre Modelación Numérica de Tsunamis Valparaiso, Chile, 11 de Marzo - 11 de Mayo de 1996 | Spanish |
| 43. | Seminario/Taller de la COI/GLOSS-SHN sobre Observación y Análisis del Nivel del Mar para países de habla hispano-portuguesa de Latinoamérica Servicio de Hidrografía Naval (SHN), Buenos Aires, Argentina, 19-27 de noviembre de 1996 | Spanish |
| 44. | IOC-INCO-ROPME Training Course on Oceanographic Data and Information Management, Tehran, Iran, 19-30 October 1997 | English |
| 44. | IOC-ICSU-IAEA-EU Training Course on Marine Geological and Geophysical Data Management for the Countries of the Black and Caspian Seas Regions, Gelendzhik, Russian Federation, 8-19 September 1997 | English |
| 45. | IOC-ICSU-IAEA-EU Training Course on Marine Geological and Geophysical Data Management for the Countries of the Black and Caspian Seas Regions Gelendzhik, Russian Federation, 8-19 September 1997 | English |
| 46. | Training Course on Management of Marine Data and Information for the IOCINCWIO Region Mombasa, Kenya, 1-11 December 1997 | English |
| 47. | IOC/WESTPAC-SIDA-SAREC-SEAPOL Training Workshop on Operational Data and Information System for the Gulf of Thailand Bangkok, Thailand, 18-21 November 1997 | English |
| 48. | SZN-IOC Advanced Phytoplankton Course on Taxonomy and Systematics Vico Equense, Naples, Italy, 10-30 May 1998 | English |
| 49. | First IOC/WESTPAC Training Course on Monitoring of PSP Plankton and Shellfish Toxicity, Japan, July 1995 Second IOC/WESTPAC Training Course on Species Identification of Harmful Microalgæ, Japan, February 1997 Third IOC/WESTPAC Training Course on Species Identification of Harmful Microalgæ, Japan, August 1997 | English |
| 50. | IOC/IODE-NIO Training Course on Oceanographic Data and Information Management Goa, India, 17–27 October 1998 | English |
| 51. | IOC/GLOSS-GOOS Training Workshop on Sea-Level Data Analysis South Africa, 16–27 November 1998 | English |
| 52. | IOC-UNEP Germany Training Course on Qualitative and Quantitative Determination of Algal Toxins, Jena, Germany, 2-12 March 1999 | English |
| 53. | *Under preparation* | |
| 54. | IOC/GLOSS-GOOS Training Workshop on Sea-Level Measurements, Tidal Analysis, GPS and Gravity Measurements, Satellite Altimetry and Numerical Modelling Sao Paulo, Brazil, 30 August-25 September 1999 | English |

| No. | Title | Language |
|---|---|---|
| 55. | IODE Training on Oceanographic Data and Information Management for the Spanish-Speaking Countries of Central and South America / Curso de Formación del Iode sobre la gestión de datos e información oceanográficos para los países de habla hispana de América Central y del Sur Rio Grande, Brazil, 20-29 September 1999 | English/Spanish |
| 56. | *under preparation* | |
| 57. | PERSGA/ALECSO-IOC/GLOSS-GOOS Training Workshop on Sea-level Data Analysis for the red Sea and Gulf of Aden Region Jeddah, Kingdom of Saudi Arabia, 15-19 April 2000 | English |
| 58. | Third IOC/WESTPAC Training Course on NEAR-GOOS Data Management Tokyo, Japan, 24 January-4 February 2000 | English |
| 59. | *under preparation* | |
| 60. | *under preparation* | |
| 61. | *under preparation* | |
| 62. | *under preparation* | |
| 63. | *under preparation* | |
| 64. | *under preparation* | |
| 65. | *under preparation* | |
| 66. | First ODINCARSA Training Course in Marine Information Management, Mazatlan, Mexico, 29 September – 4 October 2002 *(electronic copy only)* | English & Spanish |