



ACZISC

Atlantic Coastal Zone Information Steering Committee



**2004 – 2005
ANNUAL REPORT**

**“Canada is a maritime nation.
We are defined as much by our oceans
as by land. Three of the world’s oceans
border our coastline, which is the
longest in the world at about 244,000 km*.
Our oceans regions total almost six
million square kilometres, equivalent to
almost 60% of Canada’s land mass.”**

Canada’s Oceans Action Plan, 2005

- * Of Canada's coastline, Atlantic Canada
comprises 16% or 40,064 km.
- Prince Edward Island 1,260 km
 - New Brunswick 2,269 km
 - Nova Scotia 7,579 km
 - Newfoundland and
Labrador 28,956 km

*The **ACZISC 2004-2005 Annual Report** is available in PDF format
on the ACZISC website at <http://aczisc.dal.ca/docs.htm> and
in hard-copy from the ACZISC Secretariat – email aczisc@dal.ca.*



15 June 2005

To the Members of the ACZISC and the Association:

It is with pleasure that the ACZISC Secretariat presents the **ACZISC 2004-2005 Annual Report**.

I would like to highlight a number of items which took place in 2004-2005:

- The **Atlantic Coastal Information Portal (ACIP)** was developed and implemented by the ACZISC, with the collaboration and assistance of GeoConnections, Natural Resources Canada. ACIP is the latest phase in the development of the Atlantic Coastal Database Directory which was initiated by the ACZISC in 1992.

- The ACZISC is actively engaged in the establishment of:
 - **COINAtlantic** as a coordinating body to facilitate information and data transactions in Atlantic Canada. A draft Implementation Plan has been developed.
 - an **ICM Community of Practice** to share knowledge and experience so that lessons learnt can be shared rapidly and to increase capacity to replicate best practices and lessons.

- The ACZISC Secretariat partnered with the private sector on two contracts. The monies earned supplemented membership dues:
 - a CSA-sponsored **Study of the Earth and Environment Sector in Atlantic Canada**
 - an ACOA-sponsored **Study on the Economic Impact of the Ocean Technology Industry in Atlantic Canada and Potential Public Sector Demand for Ocean Technologies in Canada**

The ACZISC Secretariat also secured a contract to provide staff support for the **25th Anniversary IOI-Canada Training Programme on Ocean Governance** at Dalhousie University.

Finally I would like to thank members for their continued and enthusiastic support of the ACZISC and its activities. We look forward to 2005-2006!

Yours sincerely,

Michael J.A. Butler
Director, ACZISC Secretariat and
President, ACZISC Association

ACZISC

2004 - 2005 ANNUAL REPORT

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“Lack of dissemination of knowledge is one of the major factors in the destruction of the coastal zone.”

Barthel and Lehfeldt, CZC 2000

THE ACZISC

The ACZISC celebrated its **13th anniversary in January 2005**. The Committee was established in 1992 to provide a forum for coordinating coastal zone information management in Atlantic Canada, following the recommendations of the participants of a Workshop on Coastal Zone Information Management organized by the Land Registration and Information Service - LRIS (a former agency of the Council of Maritime Premiers) in Amherst, Nova Scotia.

MISSION

The mission of the ACZISC has evolved since its implementation in 1992. Its current focus is to **promote regional cooperation in Atlantic Canada with regards to coastal mapping, geomatics and Integrated Coastal Management (ICM)**. The ACZISC Strategic Thrusts and Enabling Objectives are included in Appendix 1 (p.16). Definitions of Geomatics and Integrated Coastal Management are provided in Appendix 2 (p.17).

BENEFITS

The **value-added benefits** of the ACZISC and its activities include 'one-stop shopping' for information; cost-effective access to a comprehensive network of expertise in information management and ICM; early detection and resolutions of inter-agency problems and conflicts; and reduced duplication of effort.

OUTCOMES

Significant **ACZISC outcomes** include the continuing success of the biennial Coastal Zone Canada Conference series initiated by ACZISC members in 1994; the influence on development policies of the four Atlantic Provinces as a result of the provincial coastal / marine economic studies initiated by the ACZISC in 1998; and the accelerated practice of ecosystem-based fisheries management and research following the ACZISC-coordinated East Coast of North America Strategic Assessment Project (1992-1995).

HORIZONTALITY

The ACZISC functions as a horizontal, inter-agency and inter-sectoral 'mechanism' and operates on a consensus basis. It was used as one of four case studies in a report published in 2002 by the Canadian Centre for Management Development entitled **Using Horizontal Tools to Work Across Boundaries: Lesson Learned and Signposts of Success**. As the title indicates, the tools and challenges of horizontality, exemplified by the ACZISC, are reviewed in the document. The report is available at http://www.myschool-monecole.gc.ca/research/publications/html/horz_e.html.

In a study entitled **Managing Collaborative Arrangements: A Guide for Regional Managers**, published by the Treasury Board of Canada Secretariat in 2003, the ACZISC is again cited as a case study in a detailed analysis of the steps and elements of collaborative arrangements. The Treasury Board report is available at http://www.tbs-sct.gc.ca/rc-cr/guide_rm/index_e.asp.

ACZISC OPERATING STRUCTURE

The ACZISC Operating Structure consists of four major components: the Atlantic Coastal Zone Information Steering Committee, the ACZISC Advisory Committee, the ACZISC Association and the ACZISC Secretariat. Refer to Appendix 3 (p.18) for a schematic that describes the Operating Structure.

THE COMMITTEE

ACZISC membership is multi-disciplinary and multi-sectoral and currently includes representatives from the four Atlantic Provinces, eight federal departments and agencies, community organizations, NGOs, the private sector and academia. A detailed list of ACZISC members and their jurisdictions as of March 2005 is attached as Appendix 4 (p.19).

Atlantic Provinces

New Brunswick, represented by the Department of Agriculture, Fisheries and Aquaculture, and the Department of Environment and Local Government

Newfoundland and Labrador, represented by the Department of Environment and Conservation, the Department of Fisheries and Aquaculture, and the Department of Natural Resources

Nova Scotia, represented by the Department of Agriculture and Fisheries, and Service Nova Scotia and Municipal Relations

Prince Edward Island, represented by the Department of Agriculture, Fisheries, Aquaculture and Forestry

**Federal
Departments
and Agencies**

Environment Canada, represented by the Environmental Emergencies Section, the Meteorological Service of Canada, and the Sustainable Communities and Ecosystems Division

Fisheries and Oceans Canada, represented by the Canadian Hydrographic Service, and the Oceans and Habitat Branch

Industry Canada, represented by the Energy and Marine Branch, and the Sustainable Technologies and Services Industries Branch

National Defence, represented by Defence Research and Development Canada, Marland Formation Environment and the Trinity Route Survey Office

Natural Resources Canada, represented by GeoConnections, Geomatics Canada, and the Geological Survey of Canada

Parks Canada Agency, represented by the Atlantic Services Centre

Public Works and Government Services Canada, represented by Real Property Geomatics and Spatial Technology Resources

Royal Canadian Mounted Police, represented by the Coastal Watch Program

Private Sector

Represented by CEF Consultants and the EIT Group

**Community
Organizations**

Represented by the Southeast Environmental Association on behalf of the Atlantic Coastal Action Program (ACAP)

Academia

Represented by the Atlantic Provinces Council on the Sciences (APICS)

**Agencies and
Associations**

Canada-Nova Scotia Offshore Petroleum Board (CNSOPB)
Canadian Centre for Marine Communications (CCMC)
NL Environmental Industry Association (NEIA)

ACZISC MEETINGS

ACZISC meetings are held **three times per year in the Atlantic provincial capitals by rotation**. The meetings are attended by ACZISC Members and by observers from all sectors, including community groups, the private sector and university students. In 2004-2005, meetings were held in St. John's on 25 June 2004; in Fredericton on 15-16 September 2004; and in Halifax on 19-20 January 2005.

In addition to the business portion of the meeting, the meeting agendas include: Working and Task Group

**ACZISC
ADVISORY
COMMITTEE**

reports, a Roundtable Review of Coastal Activities and focused presentations with discussions. The presentation topics are selected by the meeting hosts in consultation with the Secretariat. The topics of the meeting presentations and discussions in 2004-2005 were:

- **ISTOP: Integrated Satellite Tracking of Oil Polluters Project** by Wayne Turpin, Head, Wildlife Enforcement, Canadian Wildlife Service - Atlantic Region, Environment Canada
- **ACOA: Towards the Development of an Ocean Technology Strategy** by Don Hogan, Senior Economist, Atlantic Canada Opportunities Agency
- **Technology in the Marine Environment** by Dr. Ross Graham, Director General, Defence, Research and Development Canada (DRDC) Atlantic

The Advisory Committee was established in 1995 to review and provide advice on issues related to: the effective administration and operation of the Secretariat and ACZISC; the identification and securement of funding for the Secretariat and ACZISC programs; and the comprehensiveness of ACZISC membership.

The Advisory Committee consists of: Justin Huston, Chair (provincial representative); Brent Rowley (private sector representative); Carol Ann Rose (federal representative); Lois Whitehead (representative of academia); and Michael Butler (ACZISC Secretariat).

**ACZISC
ASSOCIATION**

In November 2003, the ACZISC established a separate group, the ACZISC Association, to act as the **legal entity for the ACZISC**. The Association is registered as a not-for-profit organization under the Nova Scotia Societies Act. The objects of the Society and the Association Board of Directors, composed of non-government members of the ACZISC, are listed in Appendix 5 (p.21). The 1st Annual General Meeting of the Association was held on 19 January 2005 in Halifax.

**ACZISC
SECRETARIAT**

The **function, roles and responsibilities** of the ACZISC Secretariat are:

- To function as the executing agency for all the decisions of the ACZISC and its bodies and the Association and its Board of Directors
- To convene the meetings of the ACZISC and its bodies
- To convene the meetings of the Association

ACZISC BUDGET AND FUNDING

The Secretariat office is located on the Dalhousie University campus at 1226 LeMarchant Street, Halifax, Nova Scotia B3H 3P7. The Secretariat is staffed by the Director, the Project Officer and a part-time Finance Officer.

The Secretariat operates on the basis of a **Memorandum of Understanding** between the Committee and the Association - Appendix 6 (p.22).

The 2004-2005 operating budget for the ACZISC Association was approximately \$152K. The major budget items were staffing, travel, and fees for administrative services. The **2004-2005 Financial Report** is included in Appendix 7 (p.23).

In 2004-2005, the ACZISC revenue sources were: \$88K in dues from the federal and provincial member agencies; \$8.2K, the remainder of a \$50K grant secured from ACOA in 2003-2004; and \$45.8K in contract fees, earned by the ACZISC Secretariat for the ACZISC. A balance of \$8.2K was carried over from the previous fiscal year.

The dues paid by individual federal departments are based on the relevance of the ACZISC to their respective departmental mandates.

REVENUE GENERATING PROJECTS

In 2004-2005 the Secretariat participated in a number of contracts. The monies earned supplement membership dues. A major criterion for participation is that the project must support the ACZISC mandate.

GeoConnections Metadata Project

The Secretariat completed the **transfer of metadata** from the Atlantic Coastal Database Directory to the GeoConnections Discovery Portal/Atlantic Coastal Information Portal, as per the terms of a contract with GeoConnections.

Ocean Management Research Network

The Secretariat was contracted by the OMRN to continue providing **personnel support to the OMRN National Secretariat**, based at St. Mary's University in Halifax. The OMRN is interdisciplinary, with an initial focus on social science. Its aim is to link all those across Canada with an interest in research relating to the management of ocean uses. It holds an annual conference in Ottawa.

**Study of the
E&E Sector in
Atlantic Canada**

The Secretariat participated with Aerde Environmental Research in a **Capacity Study of the Earth and Environment Sector in Atlantic Canada**, sponsored by the Canadian Space Agency. The objectives of the study were: to characterize the current economic environment and the drivers of industrial development; to outline the composition and significance of the E&E sector; and to identify barriers, enablers and opportunities for developing and promoting sustainable space-related industrial development in the area of E&E.

**ACOA Ocean
Technology
Study**

The ACZISC and Canmac Economics are carrying out a **Study on the Economic Impact of the Ocean Technology Industry in Atlantic Canada and Potential Public Sector Demand for Ocean Technologies in Canada**. The purpose of the ACOA-sponsored Study is to estimate the value of the ocean technology sector to the economy of Atlantic Canada, and to assess the potential public sector demand for ocean technologies produced in Atlantic Canada.

**International
Ocean Institute -
Canada**

The ACZISC Secretariat has been contracted to provide staff support to organize the **25th Anniversary IOI-Canada Training Programme on Ocean Governance: Policy, Law and Management**. The Training Programme is scheduled from 25 May to 22 July 2005 at Dalhousie University. Several ACZISC members and associates will be lecturing.

**ACZISC
2004-2005
WORKPLAN**

The 2004-2005 Workplan was implemented by the Secretariat with the assistance of ACZISC members, the Communications, Geomatics and Integrated Coastal Management (ICM) Working Groups and the COINAtlantic Task Group.

**COMMUNICATIONS
Communications
Working Group**

The Communications Working Group is responsible for developing the Communications component of the ACZISC Workplan, in collaboration with the Secretariat, with the goal of promoting effective internal and external communications. The Working Group co-chairs were Marianne Janowicz, NB Department of Environment and Local Government, and Geoff Lewis, Industry Canada.

ACZISC Website

The communication activities identified in the 2004-2005 ACZISC Workplan include:

The ACZISC website at <http://aczisc.dal.ca> was updated at a minimum on a weekly basis. The website includes: information about the ACZISC; the Coastal Update; the Atlantic Coastal Database Directory; the Inventory of Atlantic Coastal Mapping Projects; the Atlantic Coastal Community Profile; and links to ICM-related websites, conferences, documents, maps and imagery, resources for students and teachers and related programs.

ACZISC Coastal Update e-newsletter

The Coastal Update was prepared and emailed monthly by the Secretariat **to members and to approximately 3,600 ACZISC associates** worldwide, an increase of 600 from the previous year. Approximately 80% of the recipients were from Canada and 8% from the United States.

The Update contains brief items related to ICM and coastal mapping, with links for further information. These items include programs and activities; announcements; documents, manuals, reports, proceedings; and conferences, workshops and other events. The Updates are archived at <http://aczisc.dal.ca/new.htm>. The March 2005 edition of the ACZISC Coastal Update, as a sample, is attached in Appendix 8 (p.24).

Coastal Activities in Atlantic Canada

Coastal Activities in Atlantic Canada, the roundtable and presentation components of the minutes of ACZISC meetings, are a **valuable resource for ICM personnel**. In addition to being made available to meeting participants, this document is distributed widely via the ACZISC website at <http://aczisc.dal.ca/docs.htm>.

Minutes of ACZISC Meetings

Detailed minutes of the proceedings of meetings #42, 43 and 44 were distributed to meeting participants and posted on the ACZISC website at <http://aczisc.dal.ca/docs.htm>.

ACZISC Handouts

The 2-page information sheet is **customized for and made available at various events and conferences**. It features a brief description of ACZISC activities and a listing of members. In 2004-2005, issues were distributed at the following events:

- AGM of the Southern Gulf of St. Lawrence Coalition on Sustainability, April 2004, Carleton, QC
- Canadian Space Agency Info Days, 3-4 May 2004, Halifax
- Ocean Zoning Workshop, 10-11 May 2004, Halifax

- ICM Module of the IOI-Canada Law of the Sea Programme, 14-18 June 2004, Halifax
- Oceans Day Celebrations, 8 June 2004, St. Mary's University, Halifax
- CZC 2004, 27-30 June 2004, St. John's
- International Submerged Lands Management Conference, 19-24 Sept 2004, Halifax
- Bay of Fundy Ecosystem Workshop, 29 Sept - 2 Oct 2004, Cornwallis, NS
- Dalhousie University Open House, 22-23 Oct 2004, Halifax
- Climate Change and Coastal Communities, 11-13 Nov 2004 in Bouctouche, NB
- 3rd ESSIM Forum, 22-23 Feb 2005, Halifax.

GEOMATICS AND COASTAL MAPPING

Geomatics Working Group

The Geomatics Working Group assists the Secretariat with planning and implementing activities related to coastal mapping and to the access, exchange and dissemination of geospatial and other data and information. David Boyce, SEA and John Legault, Fisheries and Oceans Canada were the co-chairs of the Working Group.

The geomatics and coastal mapping activities identified in the 2004-2005 ACZISC Workplan include:

Atlantic Coastal Information Portal and Database Directory

In 2004-2005, the Secretariat made significant progress towards the **implementation of a long-term plan**, developed in 2001-2002, to minimize duplication of effort by the ACZISC, GeoConnections and other metadata providers in Atlantic Canada. Activities included:

- completing the **transfer of metadata** from the Atlantic Coastal Database Directory (ACDD) to the GeoConnections Discovery Portal (GDP). This was achieved through a contract with GeoConnections. The GDP is the prime discovery and access component of the Canadian Geospatial Data Infrastructure (CGDI). The ACDD was initiated by the ACZISC in 1992.
- developing the **Atlantic Coastal Information Portal (ACIP)**, the Atlantic window on the GDP, with the assistance of GeoConnections. ACIP, scheduled for launch in May 2005 at <http://aczisc.dal.ca/acip>, will replace the ACDD.

Inventory of Atlantic Coastal Mapping Projects

The Inventory of Atlantic Coastal Mapping Projects is available on the ACZISC website at <http://aczisc.dal.ca/czmproj.htm>. The Inventory is intended to maximize the utilization of mapped products and minimize the duplication of mapping activities. New entries were added and several entries in the Inventory were updated in 2004-2005.

**INTEGRATED
COASTAL
MANAGEMENT**

ICM Working Group

The ICM Working Group was formed in May 2000 in response to the need to exchange information on provincial and federal programs, including Canada's Oceans Act (1997) and the Oceans Strategy. Information and experiences on ICM policy and programs are shared at meetings scheduled to coincide with the ACZISC meetings.

The ICM Working Group advocates the implementation of ICM in Atlantic Canada and maximizes collaborative opportunities, in particular with reference to policy issues. It achieves its mandate by providing a forum to share best practices and standards; networking, communication and outreach; and raising awareness of initiatives and research related to ICM. The ICM Working Group was chaired by Carol Ann Rose, Fisheries and Oceans Canada.

The ICM activities identified in the 2004-2005 ACZISC Workplan include:

**ICM Community
of Practice**

A workshop was planned for 18 May 2005 in Charlottetown to consider the establishment of an ICM Community of Practice in Atlantic Canada. The aim is to share knowledge and experience so that lessons learnt can be shared rapidly with members and to increase capacity to replicate best practices and lessons. A Community of Practice is a **loose-knit organization of people who work or have a keen interest in a particular area** - in this case ICM. They have common requirements and concerns or problems.

COINATLANTIC

A concept paper on a **Coastal and Ocean Information Network – Atlantic (COINAtlantic)** was submitted to ACZISC in January 2004 for its consideration. A COINAtlantic Task Group was subsequently established to review the concept paper and make recommendations to the ACZISC on whether/how to move forward. Based on the Task Group's recommendations, a COINAtlantic Forum was held in Fredericton in September 2004 to refine the concept. The Forum outcomes were further refined at the ACZISC meeting #44 (January 2005 in Halifax).

A draft **COINAtlantic Implementation Plan** was prepared by the Secretariat and the Task Group; it will be reviewed at the ACZISC Meeting in Charlottetown (18-19 May 2005).

The COINAtlantic Task Group is chaired by Andy Sherin, Natural Resources Canada.

NETWORKING

Bay of Fundy Ecosystem Partnership

The participation of the ACZISC Secretariat and members in the following programs, in both executive and other roles, has significantly increased inter-program cooperation and coordination in Atlantic Canada:

BoFEP is a "Virtual Institute" of individuals and groups that seek the well-being of the Bay of Fundy by **promoting the integrity, vitality, biodiversity and productivity of the Bay of Fundy Ecosystem**, and the social well-being and economic sustainability of its coastal communities. BoFEP also facilitates communication and co-operation among interested individuals and organizations.

The Bay of Fundy Science Workshops, organized every two years, are a major BoFEP activity. The 6th Workshop was held in October 2004. For information on BoFEP, access <http://www.bofep.org>.

Canadian Geospatial Data Infrastructure and GeoConnections

The CGDI is the technology, standards, access systems and protocols necessary to **harmonize all of Canada's geospatial databases, and make them available on the internet**. The creation of the CGDI is being facilitated by GeoConnections.

The CGDI/Marine Advisory Committee (MAC) was established in 1999 to ensure that the full functionality of the CGDI serves the interests of all marine stakeholders. For information on the CGDI and GeoConnections, access <http://www.cgdi.gc.ca>.

Coastal Zone Canada Association

The Association is a non-profit society of coastal zone management professionals and others interested in and supportive of ICM goals. The CZCA was formed in 1993 to organize and deliver the inaugural CZC 94 Conference in Halifax.

The ACZISC organized a **panel session at CZC 2004** held on 27-29 June 2004 in St. John's, NL. The theme of the session was "The ACZISC: How and why it works?" Six ACZISC members and the Secretariat – Tim Anderson, David Boyce, Norval Collins, Réal Daigle, Justin Huston, LCdr Bob Thwaites and Michael Butler - addressed '**Data, Information and Knowledge for ICM**'. For information on the CZCA, access <http://www.czca-azcc.org>.

**Dalhousie
University**

The ACZISC was one of many participants in the Dalhousie University Open House held in October 2004. The event offered a great opportunity to showcase the ACZISC and its activities to students, community members and many others.

**Eastern Scotian
Shelf Integrated
Management
Initiative**

The ESSIM initiative is a **collaborative management and planning** process for the Eastern Scotian Shelf Oceans Management Area. The development of an integrated oceans management plan for this large offshore biogeographic area involves a broad range of interests. The 3rd ESSIM Workshop was held in February 2005. The main focus of discussion during the two-day workshop was the draft ESSIM Integrated Ocean Management Plan. For information on ESSIM, access <http://www.mar.dfo-mpo.gc.ca/oceans/e/essim/essim-intro-e.html>.

**Gulf of Maine
Council on
the Marine
Environment**

The Council is mandated to **protect and conserve coastal and marine habitats** within this bi-national ecosystem, which includes the Bay of Fundy and its watersheds. Membership on the Council includes New Brunswick, Nova Scotia, Maine, Massachusetts and New Hampshire. The federal partners are Environment Canada, Fisheries and Oceans Canada, the US National Oceanic and Atmospheric Administration (NOAA), the US Environmental Protection Agency and the US Fish and Wildlife Service.

The Gulf of Maine Summit: Committing to Change was held in October 2004 in St. Andrews, New Brunswick. The Environmental Report on the Gulf of Maine and Bay of Fundy, prepared for the Summit, provides in-depth chapters on several key issues facing the Gulf: land use; contaminants and pathogens; and fisheries and aquaculture. It also summarizes results from watershed forums held over the past two years and the need for a 2020 vision for the Gulf. For information on GoM, access <http://gulfofmaine.org>.

**Ocean
Management
Research
Network**

The OMRN aims to **link all those across Canada with an interest in research relating to the management of ocean uses**. It includes researchers in the humanities and social sciences, as well as interested natural scientists, ocean-oriented organizations, industry members, community and regional organizations, and governmental staff. The 2005 OMRN National Conference is being organized for the fall in Ottawa. For information on the OMRN, access <http://www.omrn.ca>.

Network of Networks

A proposal to establish a Network of Networks was discussed at a meeting held in conjunction with the Ocean Innovation Conference held on 25-27 October 2004 in Victoria, British Columbia. The Secretariat participated in the meeting on behalf of the ACZISC and the OMRN.

Placentia Bay Integrated Management

Placentia Bay in Newfoundland is the **focus of several ICM related initiatives**, including an electronic highway or 'Information Seaway', the efforts to ensure safe voyages by all traffic in the bay but especially tankers, the mandate and work of the Regional Advisory Council on Oil Spill Response, conservation and eco-tourism, the activities of community liaison committees, and plans for integrated management planning, facilitated by the provincial and federal governments.

Saltwater Network

Saltwater network was created in 2001 by and for community-based organizations around the Gulf of Maine **to support community-based marine management around the Gulf of Maine**. It works through regional resource centres that provide organizational, educational, research, technical and other kinds of support to local community-based management and conservation groups. For information on the Saltwater Network, access <http://www.saltwaternetwork.org>.

Southern Gulf of St. Lawrence Coalition on Sustainability

The Coalition is a multi-stakeholder regional body representing Nova Scotia, New Brunswick, Prince Edward Island, and Québec portions of the Southern Gulf of St. Lawrence. The Coalition is working towards an **environmentally, economically and socially sustainable Southern Gulf of St. Lawrence** through a mutually beneficial inter-dependence of these factors.

Coastal Erosion was the theme of the workshop associated with the AGM held in the spring of 2004 in Carleton, QC. Recent activities include the Sustainability Indicators Report prepared by the Science, Research and Habitat Working Group. For information on the Coalition, access <http://www.coalition-sgsl.ca>.

ACZISC STRATEGIC THRUSTS AND ENABLING OBJECTIVES

The ACZISC terms of reference, identified in the ACZISC 2002-2012 Strategic Plan, are as follows:

ACZISC Mission

To promote, facilitate and influence information management, policies and programs that enhance integrated coastal management in Atlantic Canada.

ACZISC Strategic Thrusts and Enabling Objectives

To achieve its mission, the ACZISC will:

Advocate the implementation of integrated coastal management in Atlantic Canada by:

- Networking, communication and outreach
- Providing a forum to share best practices and standards
- Raising awareness of initiatives and research related to ICM

Provide a conduit to access, exchange and disseminate geospatial and other data / information by:

- Identifying ICM-related data and information
- Facilitating its availability to the public
- Raising awareness of initiatives and research related to information management
- Encouraging the implementation of appropriate information management mechanisms

Capitalize on collaborative opportunities related to ICM and geomatics by:

- Identifying projects and activities related to ICM and geomatics
- Identifying potential collaborative projects
- Initiating, coordinating and managing projects and activities supporting ICM and geomatics
- Establishing and maintaining linkages and partnerships among members and with other committees and organizations.

Maximize the viability and relevance of the ACZISC by:

- Ensuring effective administration and operation
- Identifying and securing funding for the Secretariat and programs
- Ensuring comprehensive membership
- Publicizing the ACZISC and its activities.

INTEGRATED COASTAL MANAGEMENT: A DEFINITION

Integrated Coastal Management (ICM) can be defined as a continuous and dynamic process by which decisions are taken for the sustainable use, development and protection of coastal and marine areas and resources. ICM acknowledges the interrelationships that exist among coastal and ocean uses and the environments they potentially affect, and is designed to overcome the fragmentation inherent in the sectoral management approach. ICM is multi-purpose oriented, it analyzes and addresses implications of development, conflicting uses, and interrelationships between physical processes and human activities, and it promotes linkages and harmonization among sectoral coastal and ocean activities.

B. Cicin-Sain and R. W. Knecht, 1998. Integrated Coastal and Ocean Management: Concepts and Practices, Island Press, Washington, DC, 517 p.

GEOMATICS: A DEFINITION

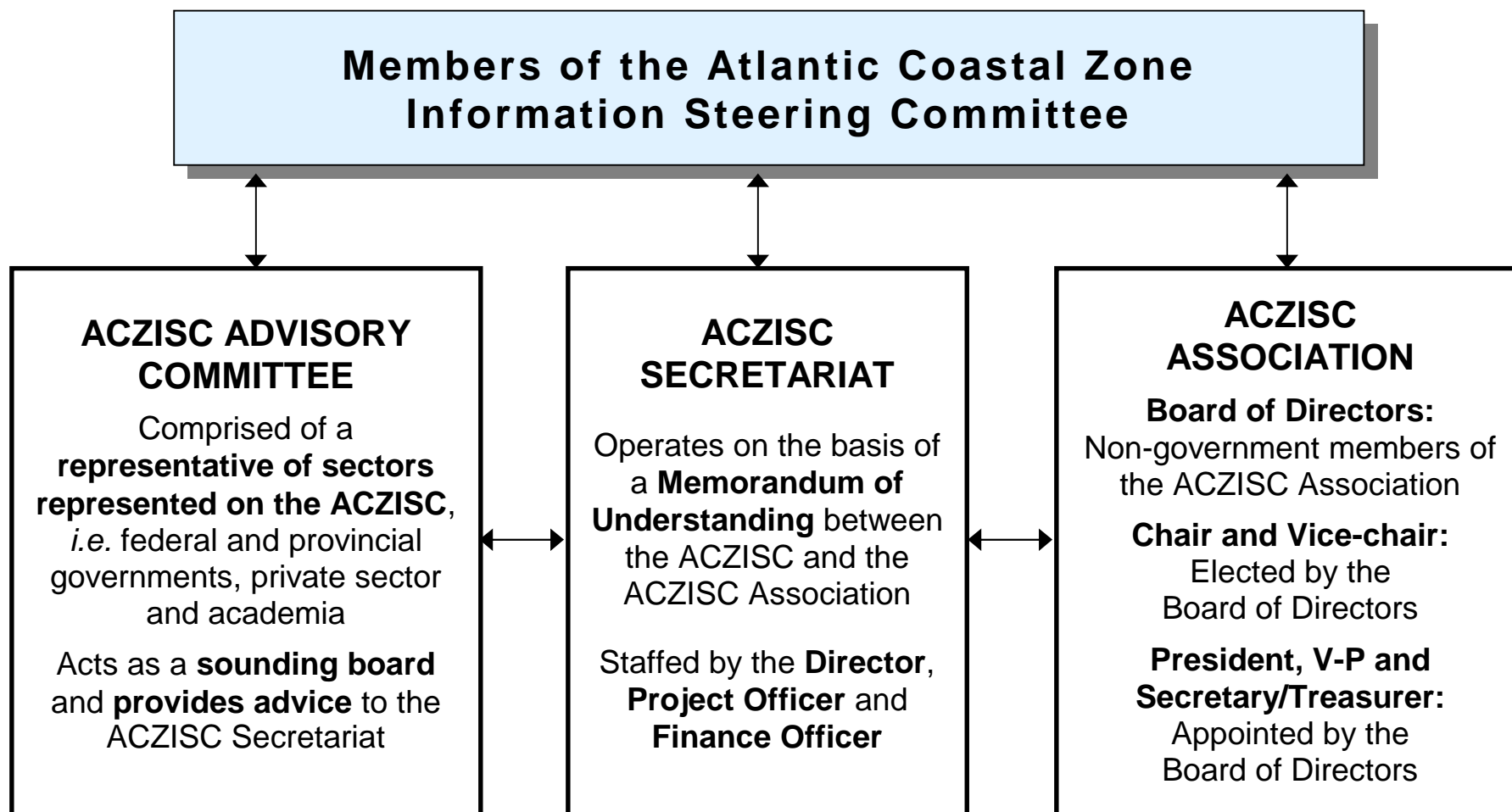
Geomatics is the science and technology of gathering, analyzing, distributing and using geospatial information. Examples of geo-info include: topographic maps, aeronautical and nautical charts, geological, agriculture and forestry maps, legal surveys, property cadastre, aerial photography and satellite imagery, among other products.

Geomatics includes a broad range of disciplines that together create a detailed but understandable picture of the physical world and our place in it. It is a generic term that covers the disciplines of surveying (geodetic, cadastral, engineering and marine) and includes global positioning systems (GPS); mapping (photogrammetry, radargrammetry, cartography, automated mapping/facilities management and charting); remote sensing (data acquisition and application); as well as creating and maintaining Geographic Information Systems. It can also be considered to include the spatial component of Earth related processes (e.g., meteorology), social characteristics (e.g., census data), and economic activity (e.g., transportation of commodities).

Geomatics often overlaps other industries in the service, hardware and software and high-technology sectors. Services aspects of the industry involve project development and management, consulting, training and technology transfer, and analysis, while hardware aspects of the industry range from desktop to mainframe computers and specialized peripheral equipment such as satellite and ground receiving station equipment related to remote sensing. Within the software domain, Canadian geomatics firms supply several of the world's most sophisticated aerial and remote sensing image analysis systems, as well as many geographic information systems. Other important software aspects of the industry include different niche products that enhance other systems, provide advanced data management and access tools, and components that ease integration issues.

GeoConnections website - <http://www.geoconnections.org>

ACZISC OPERATING STRUCTURE



ACZISC MEMBERSHIP – MARCH 2005

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ACZISC ASSOCIATION OBJECTS OF THE SOCIETY

The objects of the Society (from the Societies Act Memorandum of Association) are:

- i To encourage and support the sustainable use of coastal and marine resources in Atlantic Canada through integrated coastal zone management;
- ii To promote, facilitate and influence information management, policies and programs for the purpose of enhancing integrated coastal zone management in Atlantic Canada;
- iii To develop, provide and support public education programs concerning the ocean and coastal environment and its importance as a critical component of global environmental systems;
- iv To strengthen the expertise and capacity in the oceans and coastal zone sectors of government, and parastatal and non-governmental organizations in Atlantic Canada;
- v To develop, provide and support technical assistance projects, training programs, policy advice and consulting resources for professionals engaged in the oceans and coastal zone sectors.
- vi All other activities which are ancillary to the objects of the Society.

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MEMORANDUM OF UNDERSTANDING

for the period 1 April 2004 to 31 March 2005

Between

The **Atlantic Coastal Zone Information Steering Committee (ACZISC)**
(hereinafter referred to as the "ACZISC")

and

The **ACZISC Association** of 1226 LeMarchant Street, Halifax, NS B3H 3P7
(hereinafter referred to as the "Association")

The **ACZISC** and the **Association** agree as follows:

Michael J.A. Butler, President of the ACZISC Association, is designated as the Director of the ACZISC Secretariat and the officer responsible for the implementation of the annual ACZISC Workplan as approved by the members of the Atlantic Coastal Zone Information Steering Committee at the tri-annual meetings of the ACZISC.

Role of the Secretariat

The Secretariat provides direct support to:

- the Atlantic Coastal Zone Information Steering Committee (ACZISC) and its bodies:
 - the ACZISC Advisory Committee
 - the ACZISC Working Groups, namely Communications, Geomatics and Integrated Coastal Management
 - the ACZISC Task Groups, named on an as required basis
- the ACZISC Association and its Board of Directors.

The function, roles and responsibilities of the Secretariat are as follows:

- To function as the executing agency for all the decisions of the ACZISC and its bodies and the Association and its Board of Directors
- To convene the meetings of the ACZISC and its bodies
- To convene the meetings of the Association.

ACZISC ASSOCIATION FINANCIAL REPORT 2004-2005

REVENUE

Balance carried forward	8,167
Interest	59
Dues:	
Nova Scotia	14,000
Newfoundland and Labrador	10,000
Prince Edward Island	1,000
Federal Departments	63,000
Grants: ACOA	8,165
Contract Revenues	45,850

TOTAL REVENUE	\$ 150,241
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EXPENSES

Staffing	125,409
Travel	12,832
Administrative Services	7,340
Telephone / Fax / Email	1,754
Photocopying	479
Conferences	515
Courier and Postage	328
Office Supplies	1,443
Equipment	259
Training	93
Interest	141
ACZISC Association	1,919

TOTAL EXPENSES	\$ 152,512
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BALANCE TO BE CARRIED FORWARD	\$ - 2,271
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IN-KIND CONTRIBUTIONS

Dalhousie University	\$12,000
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Jennifer Barr, Treasurer
ACZISC Association
2 May 2005

ACZISC COASTAL UPDATE E-NEWSLETTER - MARCH 2005

The **ACZISC COASTAL UPDATE** e-newsletter is distributed monthly to **over 3600 people worldwide**. Please feel free to circulate it among your own networks. This and previous Coastal Updates are available at <http://aczisc.dal.ca/new.htm>. Please note that the inclusion of items does not imply endorsement by the ACZISC and its member agencies.

The ACZISC was established in January 1992 to promote regional cooperation in Atlantic Canada with regards to coastal mapping, geomatics and Integrated Coastal Management. The ACZISC is multi-disciplinary and multi-sectoral with representation from eight federal departments, four Atlantic provincial governments, community organizations, academia and the private sector. Please refer to the ACZISC website at <http://aczisc.dal.ca> for details.

UPCOMING ACZISC MEETINGS

- 18-19 May 2005: ACZISC Meeting #45, Charlottetown, PEI
- 14-15 September 2005: ACZISC Meeting #46, St. John's, NL
- 18-19 January 2006: ACZISC Meeting #47, Fredericton, NB
- 17-18 May 2006: ACZISC Meeting #48, Halifax, NS

For information on the ACZISC meetings, email the ACZISC Secretariat at leblancc@ca.inter.net.

CURRENT COASTAL ACTIVITIES IN ATLANTIC CANADA

A report of current coastal activities in Atlantic Canada is available at <http://aczisc.dal.ca/44cz.pdf>. The report is the Roundtable portion of ACZISC Meeting #44 held on 20 January 2005 in Halifax, Nova Scotia.

SUSTAINABILITY OF NOVA SCOTIA'S HARBOURS AND WHARVES

Meetings have been scheduled to review the results of the report entitled "Between the Land and Sea: The Social and Economic Importance of Wharves and Harbours in Nova Scotia" (<http://www.coastalcommunities.ns.ca>) and to develop direction for policy change. The meeting dates are: 18 March in Tatamagouche; 21 March in St. Anns; 30 March in Cornwallis; and 31 March in Seaforth. For information, access <http://www.ruralnovascotia.ca/wharves.asp>.

WORKSHOP ON ECOLOGICAL IMPLICATIONS OF NUTRIENT ENRICHMENT ON FRESHWATER AND COASTAL ECOSYSTEMS

The Workshop is scheduled for 30-31 March 2005 in Summerside, Prince Edward Island. The workshop will focus on key issues of eutrophication, water quality, and issues surrounding the effects of human activities on freshwater and coastal ecosystems. It will feature sessions on nutrient enrichment issues, including scientific and technical information and community group perspectives. For information, email Linda MacLean at MacLeanL@dfo-mpo.gc.ca.

RESEARCH SURVEY: ECONOMIC EFFECT OF CLIMATE CHANGE ON TOURISM

A research project is being conducted on the economic effect of climate change on tourism in the Bouctouche coastal region of New Brunswick. Feedback is being sought from people who have visited this community. The survey questions will relate to how travel choices may change in response to the effects of climate change. The project is a component of the study on the "Impacts of Sea-Level Rise and Climate Change on the Coastal Zone of Southeastern New Brunswick". For information, access <http://atlantic-web1.ns.ec.gc.ca/slr/default.asp?lang=En&n=C1F7C103-1>.

INFORMATION SYSTEMS FOR COMMUNITIES

Both Nova Scotia and Newfoundland and Labrador have implemented information systems designed to support decision-making for the benefit of government programs and community planning initiatives. The websites provide single-point access to comprehensive socio-economic data and maps and allow comparisons of community resources. The NS system "Community Counts" is available at <http://www.gov.ns.ca/communitycounts>. The NL system "Community Accounts" is available at <http://www.communityaccounts.ca>.

SUSTAINABILITY INDICATORS IN THE SOUTHERN GULF OF ST. LAWRENCE

The Sustainability Indicators Report prepared by the Science, Research and Habitat Working Group of the Southern Gulf of St. Lawrence Coalition on Sustainability describes the preliminary investigation of sustainability indicators for the Southern Gulf of St. Lawrence region and the background and basic theory behind sustainability indicators. The selection process used to produce a suggested set of indicators is described and a possible framework and rating index for these indicators is given. The report is available at <http://www.coalition-sgsl.ca/sgslDocs/New Documents/report%20by%20Marianne.pdf>.

OCEAN ZONING: CAN IT WORK IN THE NORTHWEST ATLANTIC?

The proceedings of the Workshop "Ocean Zoning: Can it Work in the Northwest Atlantic?", held on 10-11 May 2004 in Halifax, Nova Scotia, have been published by the Ecology Action Centre. The purpose of the Workshop was to explore the concept and effectiveness of ocean zoning as a tool for integrated management of marine resources and activities. The proceedings discuss key issues related to spatial planning in the Northwest Atlantic. They are available online at <http://www.ecologyaction.ca/marine/oceanzoningproceedings.pdf> and in hard copy for \$15 plus postage - email action@ecologyaction.ca.

CONFERENCE ON REMOTE SENSING FOR MARINE AND COASTAL ENVIRONMENTS

The 8th International Conference on Remote Sensing for Marine and Coastal Environments

is scheduled for 17-19 May 2005 in Halifax, Nova Scotia. The Conference will focus on integrating remote sensing and in situ data, local and regional models and non-spatial data for marine and freshwater coastal assessments and resource management. It will address marine and coastal operations and the issue of an effective integrated response to coastal and marine policy requirements. For information, access <http://www.waterobserver.org/event-2005-05>.

TRAINING AND THE CANADIAN ENVIRONMENTAL ASSESSEMENT ACT

Working in partnership with experts and practitioners, the Canadian Environmental Assessment Agency develops and delivers training to assist the federal government and others in meeting their obligations under the Canadian Environmental Assessment Act. Upcoming courses include: "Orientation to the Canadian Environmental Assessment Act" on 10 May 2005 in Halifax, Nova Scotia and "Screenings under the Canadian Environmental Assessment Act" on 17-19 May, also in Halifax. For information, access http://www.ceaa.gc.ca/014/index_e.htm.

CALL FOR PAPERS: 2005 CANADIAN COASTAL CONFERENCE

31 March is the deadline for submitting abstracts to the 2005 Canadian Coastal Conference scheduled for 6-9 November 2005 in Dartmouth, Nova Scotia. The topics are research and design in coastal science, management and engineering including: Numerical and physical modelling; Development and application of coastal GIS; Acquisition, analysis and interpretation of coastal data; Ice impacts on shorelines; Design of shore protection; Innovative practices in engineering and shoreline management; Integrated Coastal Management; and impacts and adaptation to climate change. For information, access <http://www.ccc2005-ccl2005.ca>.

CANADA'S ACTION PLAN TO COMBAT ILLEGAL, UNREPORTED AND UNREGULATED FISHING

The National Plan of Action to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing (NPOA-IUU) outlines

Canada's specific plans to address the problem of illegal fishing on a national, regional, and international basis. The NPOA identifies areas for action at the national level to ensure that gaps in legislation and policies will be remedied over the short term. At the regional and international level, the NPOA proposes remedial steps to overcome the gaps that exist in the governance tools and regimes that were designed to protect high seas fish stocks. The Plan, including a comparison of Canadian policy and practice, is available at http://www.dfo-mpo.gc.ca/media/backgrou/2005/hq-ac08b_e.htm.

CALL FOR PAPERS FOR A SPECIAL CANADIAN THEME ISSUE OF THE COASTAL MANAGEMENT JOURNAL

The theme of the special issue is "Canadian Coastal and Ocean Management: Are we gaining momentum in implementing Canada's Oceans Act?" The objectives are to present a comprehensive review and analysis of Canada's progress towards implementing Integrated Coastal and Ocean Management (ICOM), and to analyze Canada's contribution to date in the development of global ICOM. 30 April is the deadline for submitting paper proposals and 31 August is the deadline for submitting the full papers. For information, access <http://www.omrn.ca/documents/OMRN%20Call%20for%20Papers,%202005.pdf>.

CANADIAN PRACTICE ON MARINE SEISMIC ACTIVITY

19 April is the deadline for public comment on a draft Statement of Canadian Practice on the mitigation of potential seismic impacts in the marine environment, released by the Government of Canada and the Provinces of Newfoundland and Labrador, Nova Scotia and British Columbia. The Statement is aimed at creating consistency and clarity in academic and industrial marine seismic applications. When finalized, the Statement will establish the environmental protection rules that must be followed when conducting any seismic work in the marine environment in Canada. For information and to download the draft Statement, access http://www.dfo-mpo.gc.ca/media/newsrel/2005/scp-epc_e.htm.

WORKSHOP REPORT: CANADIAN CENSUS OF MARINE LIFE

A workshop was held in Ottawa, Ontario in October 2004 to plan a coordinated program for Canada in the international initiative Census of Marine Life (CoML). Meeting outcomes include the identification of research priorities for a new Canadian CoML proposal and the election of a steering committee to help direct a national research agenda on marine biodiversity. The report of the Canadian Census of Marine Life: Three Oceans of Biodiversity Workshop is available at <http://www.coreocean.org/Dev2Go.web?id=247906&rnd=8001>.

MODELLING COD BIOMASS USING HISTORICAL RECORDS

The volume of cod on the Scotian Shelf of Nova Scotia has plunged 96 percent since the 1850s, according to Census of Marine Life researchers. The estimates were derived from old schooner catch records and observations, coupled with modern modelling tools. For information, including high-resolution images, access <http://www.coml.org/embargo/embargo5.htm>.

ARCTIC COASTAL DYNAMICS PROGRAM

The Arctic Coastal Dynamics (ACD) program is a multi-disciplinary, multi-national forum to exchange ideas and information. The overall objective of ACD is to improve the understanding of circum-Arctic coastal dynamics as a function of environmental forcing, coastal geology and cryology and morphodynamic behaviour. In October 2004, Canada hosted the 5th annual Arctic Coastal Dynamics Workshop at McGill University in Montréal, Québec. For information on the ACD program and workshop, access <http://www.acd2004.mcgill.ca/>.

CLEAR EVIDENCE OF HUMAN-PRODUCED WARMING IN WORLD'S OCEANS

In a new study conducted by researchers at the Scripps Institution and the Lawrence Livermore National Laboratory's Program for Climate Model Diagnosis and Intercomparison (PCMDI), a combination of computer models and real-world "observed" data were used to capture signals of the penetration of greenhouse gas-influenced warming in the

oceans. The results clearly indicate that the warming is produced by human activities. For information, access http://scrippsnews.ucsd.edu/article_detail.cfm?article_num=666 or <http://www.aaas.org/news/releases/2005/0217/warmingwarning.shtml>.

GLOBAL EARTH OBSERVING SYSTEM OF SYSTEMS 10-YEAR PLAN ENDORSED

At the 3rd Earth Observation Summit held in February 2005 in Brussels, Belgium, representatives of 54 nations and over 40 international organizations endorsed a 10-year plan that details concrete steps towards comprehensive cooperation for Earth observation. The Global Earth Observing System of Systems (GEOSS) brings together many of the nations and agencies that have been using Earth observation tools independently. For information and to access the Summit Reference document, access <http://earthobservations.org>.

IMAGES OF THE INDIAN OCEAN NEAR EPICENTRE OF TSUNAMI

The UK's Royal Navy survey ship HMS Scott has collected unique images of the Indian Ocean seabed near the epicenter of the earthquake and tsunami that devastated the region on 26 December 2004. It is the first time that the seafloor has been observed so soon after an earthquake of this magnitude, which measured 9.0 on the Richter scale. The work is being carried out to further the understanding of earthquakes and assist prediction of such events. For information, access <http://www.royal-navy.mod.uk/rn/content.php3?page=1&article=863>.

OTHER DOCUMENTS AND WEB RESOURCES

- The Government of Newfoundland and Labrador has released the final report of the Fixed Link between Labrador and Newfoundland Pre-feasibility Study. It is available at <http://www.gov.nl.ca/publicat/fixedlink>.

- Comments are welcome on the report "Tides of Change Across the Gulf: An Environmental Report on the Gulf of Maine and Bay of Fundy", prepared for the Gulf of Maine Summit

held in October 2004 in St. Andrews, New Brunswick. The report is available online at <http://www.gulfofmainesummit.org/docs/>. Comments may be sent to Dr. Peter Wells at peter.wells@ec.gc.ca.

- The North Pacific Marine Science Organization (PICES) is an international, intergovernmental organization whose experts include scientists from Canada, China, Japan, Korea, Russia, and the United States. Recent PICES scientific reports include "Report of the Study Group on "Ecosystem-Based Management Science and its application to the North Pacific" and "Fisheries and Ecosystem Responses to Recent Regime Shifts in the North Pacific". They are available at http://www.pices.int/publications/scientific_reports.

- The Retrospective of the 2003 National Conference of the Ocean Management Research Network is available online at http://www.omrn.ca/eng_conference2003.html.

- The March 2005 issue of MPA NEWS includes an article on preparing MPAs for climate change and ocean warming. The article examines coral bleaching, shifting of habitats and disappearing habitat of freshwater species. It is available at <http://depts.washington.edu/mpanews/issues.html#Mar%202005>.

- The report entitled "Revisiting the Law of the Sea", based on discussions at a Meeting of Experts organized by MASC in March 2003 in Victoria, British Columbia, is available at <http://www.maritimeawards.ca/pdfs/rlos.pdf>.

- The Proceedings of the 2nd International Symposium on GIS/Spatial Analyses in Fishery and Aquatic Sciences, held in Brighton, UK in September 2002, are available for purchase. For information, access <http://www.esl.co.jp/Sympo/2nd/pdf/publication%20details.pdf>.

- "Charting Progress: An Integrated Assessment of the State of UK Seas" brings together the results of marine monitoring programmes in order to provide the best assessment possible of the waters around the shores of the UK. The report is available at <http://www.defra.gov.uk/environment/water/marine/uk/stateofsea/index.htm>.

OTHER DEADLINES

- 20 March is the deadline for submitting abstracts to "Caricostas 2005", the 2nd International Conference on Integrated Coastal Zone Management, scheduled for 11-13 May 2005 in Santiago de Cuba city, Cuba. For information, access <http://usuarios.lycos.es/caribbean/Index.html>.

- 29 March is the deadline for submitting abstracts to the "COML History of Marine Animal Populations (HMAP) Conference", scheduled for 24-27 October 2005 in Kolding, Denmark. For information, access <http://www.hmapcoml.org/Default.asp?ID=248>.

- 31 March is the deadline for submitting abstracts to the "2005 Canadian Coastal Conference", scheduled for 6-9 November 2005 in Dartmouth, Nova Scotia. For information, access <http://www.ccc2005-ccl2005.ca>.

- 31 March is the deadline for manuscript submission for "Ocean Yearbook: Volume 20". The Yearbook publishes articles, reports and reference materials devoted to the issues and concerns affecting the world's oceans. Topics include: Ocean Governance; Living Resources of the Oceans; Non-living Ocean Resources; Transportation and Communications; Environment and Coastal Management; Maritime Security; Military Activities; Regional Developments; and Training and Education. For information, access http://law.dal.ca/law_3986.html.

- 1 April is the deadline for submitting abstracts to the Atlantic Canada Coastal and Estuarine Science Society Workshop, scheduled for 4-5 May 2005 in Moncton, New Brunswick. For information, access <http://aczisc.dal.ca/access.pdf>.

- 1 April is the deadline to register for the "GEOIDE Summer School 2005", scheduled for 22-27 May 2005 in Québec City, Québec. The summer school will offer courses in GPS, spatial statistics, SOLAP, GIS, AI and International Standards, as well as practical workshops. For information, access <http://www.geoide.ulaval.ca/gsn/en/achievement/welcome.html>.

- 1 April is the deadline for submitting abstracts to the "World Conference on Ecological Restoration", the 17th Conference of the Society for Ecological Restoration, scheduled for 12-18 September 2005 in Zaragoza, Spain. For information, access <http://www.ser.org/content/2005Conference.asp>.

- 15 April is the deadline for submitting abstracts to "Aquaculture Canada 2005", the 22nd Annual Meeting of the Aquaculture Association of Canada, scheduled for 3-6 July 2005 in St. John's, Newfoundland. For information, access <http://www.aquacultureassociation.ca/ac05/>.

- 15 April is the deadline for submitting abstracts to "9th Canadian Workshop on Harmful Marine Algae", scheduled for 6-8 July 2005 in St. John's, Newfoundland. For information, access http://www.nfl.dfo-mpo.gc.ca/cwhma_atcamn/first_premiere.asp.

- 1 May is the deadline to register for a "Satellite Remote Sensing Training Course in Biological Oceanography", scheduled for 3-17 June 2005 at Cornell University, Ithaca, New York. For information, access http://www.geo.cornell.edu/ocean/rs_course/index.html.

OTHER UPCOMING CONFERENCES AND EVENTS

- For a more complete list of upcoming conferences and workshops, access <http://aczisc.dal.ca/conf.htm>.

- 29-31 March: "US Hydro 2005 Conference", San Diego, California. For information, access <http://www.thsoa.org/>.

- 29-31 March: "2005 Puget Sound Georgia Basin Research Conference", Seattle, Washington. For information, access <http://www.engr.washington.edu/epp/psgb/call.html>.

- 5-9 April: "2005 Annual Meeting of the Association of American Geographers (AAG)", Denver, Colorado. For information, access <http://www.aag.org/annualmeetings/index.cfm>.

- 10-13 April: "Soundings Institute: Advancing Community-Based Practices in Marine Conservation and Management", Tatamagouche, Nova Scotia. For information, access http://www.qlf.org/Soundings_Institute/about.html.

- 11-15 April: "5th International Conference on Coastal Dynamics", Barcelona, Spain. For information, access <http://www.coastaldynamics.org/cd05/index.html>.

- 13-15 April: "Coastal Engineering 2005", the 7th International Conference on Modelling, Measurements, Engineering and Management of Seas and Coastal Region, Algarve, Portugal. For information, access <http://www.wessex.ac.uk/conferences/2005/coastal2005/1.html>.

- 17-20 April: "ICCCM 2005", the International Conference on Coastal Conservation and Management in the Atlantic and Mediterranean, Algarve, Portugal. For information, access <http://icccm2005.tripod.com>.

- 18-20 April: "COMRISK 2005", the International Conference on Coastal Risk Management, Kiel, Germany. For information, access <http://www.comrisk.org/html/conference.html>.

- 18-20 April: "2nd International Conference on Maritime Heritage", Barcelona, Spain. For information, access <http://www.wessex.ac.uk/conferences/2005/mh05/index.html>.

- 19-21 April: "16th Global Warming International Conference", New York City, New York. For information, access <http://www.globalwarming.net/gw16-announcement.asp>.

- 20-22 April: "Coastlines, Structures and Breakwaters Conference", London, UK. For information, access <http://www.icebreakwaters.com/>.

- 29-30 April: "Gearshift: A Call for Healthy Fisheries at Home and on the High Seas", St. John's and Petty Harbour, Newfoundland and Labrador. For information, access <http://www.ecologyaction.ca/news/111048736658202.html>.

- 5-9 September: "International Training Course on Coastal Erosion Management", Porto, Portugal. The number of participants is limited. For information, access <http://paginas.fe.up.pt/~fpinto/Erosion/>.

The ACZISC Secretariat