

MINUTES OF ACZISC MEETING #33

Atlantic Coastal Zone Information Steering Committee

Date: Thursday, 10 May 2001, 0830 - 1630 hrs.

Location: Richmond Room, Charlottetown Hotel
Charlottetown, Prince Edward Island

PARTICIPANTS: * indicates ACZISC member or Executive Committee member

Name	Affiliation	Tel. No.
John Allen	Private sector - Champlain Institute (for Brent Rowley*)	902-887-3170
Tim Anderson*	Fisheries and Oceans Canada, Oceans Management Section, NF Region	709-772-2852
Larry Avery	911 PEI	902-368-4073
Bill Blight*	Public Works and Government Services Canada, Spatial Technology Resources	902-496-5160
David Boyce	Southeast Environmental Association	902-838-3351
John Burka	Atlantic Provinces Council on the Sciences*	902-566-0810
Michael Butler*, Chair	Council of Maritime Premiers and Oceans Institute of Canada	902-494-1977
Andy Cameron*	Government of Nova Scotia, Agriculture and Fisheries	902-424-0406
Réjean Castonguay*	Government of New Brunswick, Service New Brunswick	506-453-3917
Joanne Cook	Private sector - Champlain Institute (for Norval Collins*)	902-425-4802
Dave Finley	Service New Brunswick	506-444-4644
Gary Frail	Royal Canadian Mounted Police	902-426-9453
Krista Fraser	GeoConnections Secretariat	902-667-6283
Larry Hildebrand*	Environment Canada, Sustainable Communities and Ecosystems Division	902-426-2131
Stephen Hurst	GeoNet Technologies Inc.	902-887-3170
Marianne Janowicz	NB Department of Environment and Local Government	506-457-4846
Steve Kempton*	Fisheries and Oceans Canada, Canadian Coast Guard	902-426-6987
Gillian King	PEI Provincial Treasury, Taxation and Property Records	902-569-7599
Claudette LeBlanc	ACZISC Secretariat	902-494-1977
Jeff LeClair	Atlantic Technology Centre	902-569-7556
Geoff Lewis*	Industry Canada, Manufacturing Industries Branch	902-426-9475
Dick MacDougall*	Fisheries and Oceans Canada, Canadian Hydrographic Service	902-426-3497
Stephen Murray	Atlantic Technology Centre	902-894-0386

Name	Affiliation	Tel. No.
Jim Ramsay*	Government of Prince Edward Island, Taxation and Property Records	902-368-4075
Herb Ripley	Hyperspectral Data International Inc.	902-461-2161
Faith Scattolon*	Fisheries and Oceans Canada, Oceans Act Coordination Office, Maritimes Region	902-426-2065
Heidi Schaefer	Marine Invertebrate Diversity Initiative (MIDI)	902-426-3587
Andy Sherin*	Natural Resources Canada, Geological Survey of Canada - Atlantic	902-426-7582
Eric Theriault*	Environment Canada, Toxics Management Section	902-426-9558
Rob Thompson*	Parks Canada, Atlantic Service Centre	902-426-3281
Cameron Wilson*	Natural Resources Canada, GeoConnections Secretariat	613-996-6377

1. **WELCOME AND INTRODUCTION OF PARTICIPANTS**

Mike Butler, ACZISC Chair, called Meeting #33 to order at 08:30 hrs. He thanked Jim Ramsay and his staff for making the meeting arrangements, and for providing the meeting room and the lunch. A roundtable introduction of all participants followed.

2. **ADOPTION OF AGENDA, AND REVIEW AND APPROVAL OF MINUTES FOR MEETING #32**

The provisional Agenda for Meeting #33 was reviewed. Larry Hildebrand proposed two additions: Discussions on the ACZISC Outcomes paper; and Discussions on celebrating the 10-year anniversary of the ACZISC in 2002.

The agenda was approved with the above additions. A copy of the revised agenda is attached. The draft minutes of ACZISC Meeting #32 were reviewed. The following revision was made:

Page 6 BUDGET/FUNDING/WORKPLAN: 2nd paragraph "...ACZISC meetings would also be scheduled in Saint John in the future if the funding request is approved." **should read** "...ACZISC meetings would also be scheduled in **St. John's** in the future if the funding request is approved."

The minutes were approved with the above revision. The revised minutes will be posted on the ACZISC website at <http://www.dal.ca/aczisc/docs>

3. **STATUS OF ACTION ITEMS**

Action Items from Meeting #32 were reviewed. All Action Items were carried out or are in progress.

4. **NEXT ACZISC MEETING**

The frequency of ACZISC meetings was discussed in view of St. John's being added to the list of meeting locations, *i.e.* Charlottetown, Fredericton and Halifax. The current schedule of three meetings per year was considered to be ideal and it was recommended that this frequency should be maintained.

ACZISC Meeting #34 is scheduled for Thursday, 13 September 2001 in St. John's, NF.

5. **ACZISC WORKPLAN**

ACZISC EXECUTIVE COMMITTEE: Mike Butler reminded members that the ACZISC Executive Committee consists of Brad Fay (Provincial representative); Brent Rowley (Private Sector representative); Faith Scattolon (Federal representative); and Mike Butler (ACZISC Secretariat representative). Brad Fay is the chair of the Executive Committee.

An ACZISC Executive Committee meeting was held on 4 May 2001 at BIO; Faith Scattolon, Brent Rowley and Mike Butler were in attendance. Faith reported on the meeting:

- ACZISC Funding: The most recent budget (11 April) was reviewed by the Executive Committee. Mike Butler reported on his 1 May meeting with Leo Walsh and Dan Casey of the CMP Secretariat to discuss the three-year ACZISC funding request submitted to the CMP on 30 January.
- First Nation Representation on ACZISC: Mike Butler reported on his efforts to identify a First Nation representative on the ACZISC.
- ACZISC Secretariat Projects: Mike Butler updated the Executive Committee re the PEI Oceans Sector Economic Study; the Climate Change Impacts and Adaptation Inventory for Canada's Coasts; the DFO/SSHRC Ocean Management Research Network; and Oceans Explorations 2001: Learning from our Oceans, a collaborative IOIC/CBC/DFO Project.

ACZISC SECRETARIAT: Mike Butler reported that the merger of the Oceans Institute of Canada (OIC) and the International Ocean Institute (IOI) into the International Oceans Institute of Canada (IOIC) had been finalized as of December 2000. The OIC will continue to operate until mid-summer when it is anticipated that its outstanding projects will be completed. The ACZISC Secretariat will continue to be based at the OIC / IOIC at 1226 LeMarchant Street, Halifax pending discussions between the IOIC and the ACZISC.

ACZISC MEMBERSHIP: The following was reported:

New Brunswick: A replacement will be identified for Barry Jones who has left his position with the NB Department of the Environment and Local Government to join Fisheries and Oceans Canada as the Coordinator for Integrated Oceans and Coastal Management, Bay of Fundy/Gulf of Maine Sector. Barry will be based at the Biological Station in St. Andrews. Réjean Castonguay will be retiring from Service NB at the end of the fiscal year. He will be replaced by David Finley, Project Officer, Service NB.

RCMP: Gary Frail indicated that the RCMP would like to be represented on the ACZISC. Mike Butler commented that the RCMP would be a valuable addition to the ACZISC; he suggested that Gary contact Faith Scattolon to review federal funding of the ACZISC and the financial obligations of membership.

Canadian Coast Guard: Steve Kempton, Liaison Officer, CCG - Maritimes Region, has replaced Nancy McNeil in representing the CCG/DFO on the ACZISC.

Parks Canada: Rob Thompson, Manager, Park/Site Planning and Establishment, Atlantic Service Centre, has joined Neil Munro in representing Parks Canada on the ACZISC.

First Nations: Mike Butler stated that a representative of First Nations is being sought. Ken Paul, the former FN representative, has provided a list of names of potential members. Mike added that it was important to follow protocols in this process. Joanne Cook offered to provide the names of personnel with the Treaty Rights Research Centre in Shubenacadie who could serve as FN representatives on the ACZISC.

Natural Resources Canada: Cameron Wilson, Section Head, Content and Connectivity Section, GeoAccess Division, Canada Centre for Remote Sensing has joined Andy Sherin in representing NRCan on the ACZISC.

Larry Hildebrand suggested that the ACZISC consider additional members, including: Health Canada, the Canada Food Agency and Agriculture and Agri-Food Canada.

ACTION 33.1: *Joanne Cook to provide the Secretariat with names of personnel with the Treaty Rights Research Centre who could serve as First Nation representatives on the ACZISC*

ACTION 33.2: *In collaboration with First Nation personnel, Secretariat to seek ASAP a representative of First Nations on the ACZISC*

ACTION 33.3: *Secretariat and Executive Committee to consider other agencies for possible ACZISC membership*

An up-to-date list of ACZISC members and Executive Committee members is attached.

WORKPLAN / BUDGET / FUNDING: Mike Butler reported that the draft ACZISC 2001-2002 Workplan had been distributed to members by email on 21 February. The Workplan has been reviewed by the Executive Committee. He thanked members for comments. Larry Hildebrand suggested that the Workplan could be tied to the ACZISC Outcomes.

Mike Butler distributed copies of the ACZISC Budget (1999-2000 to 2001-2002) and a Summary of ACZISC Membership Dues/Revenues (1999-2001). Copies are attached. The statements were reviewed. Mike stated the following:

- Efforts are being made by the Secretariat and the Executive Committee to consolidate ACZISC funding for a 3-year period via a Letter of Agreement between the Council of Maritime Premiers (CMP) and the federal departments and agencies on the ACZISC.
- The CMP is carrying out a review of all its activities and programs, including the Maritime Geomatics Committee which makes recommendations to the Council re ACZISC funding.
- The Secretariat takes on some contract work to meet budgeted revenue shortfalls.

Andy Cameron reported that the Province of NS was holding internal discussions to review alternate funding options for the ACZISC. The discussions are coordinated by Brad Fay.

Faith Scattolon added that the federal Letter of Agreement between the ACZISC and the federal ACZISC members was being circulated. The individual departments should specify if they require direct billing from the Secretariat re their portion of the federal contributions.

ACTION 33.4: *ACZISC members to review and provide comments to the Secretariat on the ACZISC Workplan and Budget*

ACTION 33.5: *Faith Scattolon to finalize ASAP the arrangements for signatures on the Letter of Agreement between the ACZISC and the Federal Departments re ACZISC funding*

ACTION 33.6: *Federal members wanting an invoice to be sent to them directly by the Secretariat for their 2001/2002 contributions to notify the Secretariat ASAP*

ACTION 33.7: *Secretariat and Executive Committee to further communicate ASAP with the Council of Maritime Premiers re funding for the ACZISC for a three-year period beginning in 2001/2002*

COMMUNICATIONS: The ACZISC Communications Working Group is chaired by Mike Butler. He and Claudette LeBlanc reported the following:

ACZISC Update: The ACZISC monthly Updates continue to be distributed by email mid-month. The Updates are also available on the ACZISC website in the 'What's New' section. Members are encouraged to submit items for inclusion in the Updates.

ACZISC Website: A search function has been implemented on the website to make it easier to locate information. Positive feedback is received regularly on the website. Members are encouraged to submit items for inclusion in the website.

Atlantic Coastal Zone Info: The 2-page information bulletin contains a summary of information on ACZISC activities. Issues were prepared for the national Workshop on Coastal Impacts and Adaptation Related to Climate Change, held on 5-6 March at BIO in Dartmouth; the 1st AGM of the Southern Gulf of St. Lawrence Coalition on Sustainability held on 6-7 April in Bouctouche, NB; and the CBC/DFO/OIC Oceans Explorations Public Panel held on 6 April at St. Mary's University in Halifax.

Minutes of ACZISC Meetings: The minutes are distributed to the participants of ACZISC meetings and made available in the 'Documents' section of the ACZISC website. Mike commented that these were a tremendous source of information. However, he suggested that they were not sufficiently utilized. Participants discussed options to give the minutes more profile, including making them available on CD with a subject index.

Claudette LeBlanc reported that she had begun to post the Roundtable portion of the minutes separately on the website and that its availability was highlighted in red in the ACZISC Homepage. The URL from which the full minutes can be downloaded is provided.

John Burka suggested that attendance by the Secretariat, including manning an information booth, at major conferences and workshops in the region would help raise the profile of the ACZISC. He gave the recent Aquaculture Canada conference held on 6-9 May in Halifax as an example. Andy Sherin stated that this would require a significant Communications budget. Mike Butler added that, in addition to the Secretariat, members were also responsible for ACZISC awareness within other committees and projects in which they were involved.

ACZISC 10-Year Anniversary: Larry Hildebrand stated that the ACZISC had achieved a great deal since its formation in 1992, adding that it was important to take stock of the accomplishments and to celebrate. Mike Butler asked for suggestions for celebrating the 10-year anniversary in 2002:

Bill Blight: Former and current ACZISC members could be invited to an event, e.g., a strategy meeting or workshop, to outline the long-term objective of the ACZISC over the next 10 years.

Mike Butler: A workshop could also serve to capture the ACZISC 'corporate memory' and document it in a paper.

Larry Hildebrand: The workshop could also deal with future ACZISC core activities and be open to other individuals/organizations.

Cameron Wilson: The workshop could be held in conjunction with a meeting or other event.

Andy Cameron: The workshop could be tied to a decision-makers event, e.g., a meeting of the Council of Atlantic Premiers.

Faith Scattolon: A meeting of the Federal Council would be another event with which the ACZISC workshop could be linked. The Atlantic Regional Federal Council meets once per year. Oceans Day held on 8 June could also be considered.

Geoff Lewis: An international expert could be invited to speak at the workshop.

Mike Butler: suggested that an ACZISC Task Group be formed to review the suggestions to celebrate the 10-Year Anniversary of the ACZISC and to make recommendations at the next ACZISC meeting. Bill Blight, Paul Boudreau, Norval Collins and Larry Hildebrand volunteered to assist the Secretariat in this task. Mike asked participants to email any additional suggestions to the Secretariat.

Amherst, Moncton or Sackville, NB were suggested as the possible location for the event.

ACTION 33.8: ACZISC members and other participants to contact the Secretariat prior to July 31 with suggestions for celebrating the 10th anniversary of the ACZISC in 2002

ACTION 33.9: ACZISC Task Group (Secretariat, Bill Blight, Paul Boudreau, Norval Collins, Larry Hildebrand) to make recommendations at the next meeting for celebrating the 10th anniversary

ACZISC Outcomes: Mike Butler reported that the ACZISC Outcomes paper under development could be instrumental in obtaining ongoing funding for the ACZISC.

Discussion:

Larry Hildebrand: The ACZISC needs to have performance measures; these can be hard to describe. It is also important for members to be well informed of ACZISC Outcomes in order to promote the ACZISC within each jurisdiction represented on the Committee

Geoff Lewis: It can be difficult to show the links between outcomes and inputs.

Jim Ramsay: The ACZISC should have a Strategy Meeting to review its current role and to consider if and how that role should change for the future.

Andy Sherin: The impact of the ACZISC could be documented with case studies.

Mike Butler: The Secretariat will be preparing another draft of the ACZISC Outcomes paper based on comments by the Task Group established at meeting #31 (George Borgal, Andy Cameron, Larry Hildebrand, Secretariat) and organize a Strategy meeting.

ACTION 33:10 ACZISC members to review the draft ACZISC Outcomes document previously circulated and to provide comments to the Secretariat by 30 June 2001

ACTION 33.11: ACZISC Task to review members' comments on the draft Outcomes document and to revise it accordingly

ACTION 33.12: Secretariat to develop a proposal for a Strategy Meeting for consideration by members at the next ACZISC meeting

DATABASE DIRECTORY: The ACZISC Database Directory Working Group is chaired by Claudette LeBlanc; she reported the following:

- Over the short term, the focus for the Database Directory will be:
 - » to convert the Directory database currently in MS ACCESS 3.1 format to ACCESS 2000 format. The conversion is being done courtesy of the NS Geomatics Centre.
 - » to initiate an update of the Directory in collaboration with the ACZISC members.
- Over the long term, the focus for the Database Directory will be:
 - » to deliver the ACZISC Database Directory through a system of 'pier' directories maintained by each of the jurisdictions on the ACZISC.
 - » to connect with CeoNet and the CGDI.

Cameron Wilson reported that an agreement between GeoConnections and the NS Geomatics Centre was now in place to deliver content and connectivity in Atlantic Canada for the CGDI. He introduced Krista Fraser, a Programmer, who will be responsible for the activities associated with the agreement. The schedule of databases to be made available online will be determined by GeoConnections. The ACZISC will be consulted re its priorities.

Claudette reported that a meeting of the Database Directory Working Group would be organized to discuss collaboration between the ACZISC and GeoConnections for the delivery

of metadata in Atlantic Canada in relation to the agreement.

ACTION 33.13: Claudette LeBlanc to organize a meeting of the ACZISC Database Directory Working Group to discuss collaboration between the ACZISC and GeoConnections

Jim Ramsay reported that one of the first agenda items for a new geomatics committee formed in PEI would be the development of a 'broad' metadata directory for the Island. This effort will make use of existing directories.

COASTAL MAPPING: Eric Theriault, co-chair of the ACZISC Coastal Mapping Working Group, reported the following:

- The coordination by the ACZISC and the Champlain Institute, last year, of a number of coastal high-resolution data collection projects in the region resulted in a significantly reduced cost of acquiring the data sets.
- A summary report of the collaborative project, including an economic analysis, should be produced to document the successes and lessons learned. This will assist in moving forward with new collaborative efforts.
- The Alliance for Marine Remote Sensing (AMRS), AERDE and others are organizing a 'Workshop on Remote Sensing and Resource Management in Nearshore and Inland Waters'. The Workshop is scheduled for 22-24 October 2001 in Wolfville, NS. The theme of the Workshop is directly related to the collaborative coastal high-resolution data collection projects; ACZISC members are encouraged to participate in the Workshop.
- The College of Geographic Sciences (CoGS) has prepared two new proposals for submission to the CFI (Canadian Foundation for Innovation) fund. Curt Speight, one of the ACZISC Coastal Mapping Working Group co-chairs, has had input into the proposals.

Mike Butler briefly described the individual coastal high-resolution projects. He reiterated the need for a summary document.

Discussion:

Andy Sherin: The project partners are considering having a meeting in the fall after more analysis of the data is carried out to discuss follow-up, including the preparation of a summary technical document.

Cameron Wilson added that it was important to identify the audience and the purpose for the report.

Mike Butler: A fieldwork report, including groundtruthing information for the PEI and Cape Breton portions, has been prepared and submitted by Earth Information Technologies (Brent Rowley). Bill Blight added that the raw data must now be related to the groundtruth data.

Andy Sherin: There is also the need to carry out comparisons to assess the capability of the various sensors and data types.

Eric Theriault stated that perhaps two documents are needed: a technical document, and a general policy document, including a section on benefits, which could be used for promotion.

DATA EXCHANGE AND STANDARDS: The Data Exchange and Standards Working Group is co-chaired by Réjean Castonguay, Service New Brunswick and Andy Sherin, Geological Survey of Canada - Atlantic. Andy and Réjean suggested that there is a requirement for a workshop, to discuss collaboration in regards to the management of data and information related to shorelines, including definitions. They requested feedback from the participants on the requirement for a workshop on shorelines and on the issues which should be addressed.

Discussion:

John Burka stated that there were socio-economic and jurisdictional issues, related to aquaculture, which need to be addressed.

Larry Hildebrand suggested that the impact of 'hard lines' on ICM, which deals with 'blurry lines', could be considered.

Réjean Castonguay stated that NB had spent two years in 'intense' discussions re shoreline definitions for the purpose of its coastal mapping program. Service NB is currently being pressed to develop a marine database. This has led to a GEOIDE research project to define NB's administrative boundaries.

Andy Sherin added that an ACZISC workshop would build on the work done by NB and other jurisdictions on shoreline definitions. It would also be a good follow-up to the coastal high-resolution data collection projects.

Cameron Wilson reported that shorelines definitions were also an issue in other regions of Canada. A proposal has been submitted to GeoConnections re high and low waters marks in British Columbia. He added that the ACZISC could consider submitting a proposal to hold a workshop in collaboration with GeoConnections to the Framework Node of GeoConnections.

Réjean Castonguay reported that the 'Offshore Issues Consultation Workshop' held last March in Halifax had been an informative exercise. Workshop participants concluded that there is a strong need for a national marine cadastre to document all interests/uses in the nearshore and offshore. A workshop report will be produced; it will be made available to the ACZISC Secretariat for distribution to members. A white paper will be produced from the workshop. It is expected that a policy statement will be issued based on the white paper.

Mike Butler suggested that participants contact the Secretariat regarding the need for a workshop and issues which they would like addressed at a workshop. The Secretariat and Data Exchange and Standards Working Group will then meet to discuss further actions.

ACTION 33.14: ACZISC members to provide feedback to the Secretariat on issues and speakers for a Workshop on Shoreline Definitions / Administrative Boundaries prior to next meeting

ACTION 33.15: Secretariat and Data Exchange and Standards Working Group to consider the requirement for a Workshop based on feedback from members

INTEGRATED COASTAL MANAGEMENT: The ACZISC ICM Working Group is co-chaired by Leslie Grattan, Government of NF and Labrador, and Faith Scattolon, DFO.

Tim Anderson reported that eight participants had attended the ICM Working Group meeting held yesterday (9 May) afternoon. The following items were discussed:

- Marianne Janowicz reported on policy issues in NB related to coastal lands, wetlands, pits and quarries, water classification, and site allocation re shellfish and finfish aquaculture.
- Leslie Grattan, NF, noted the significance of ecotourism as an emerging industry and its link to the sustainability of coastal communities and the need for the NF provincial government to become involved in coastal planning. She added that a Waste Management Policy would be announced next week.
- Andy Cameron, NS, updated participants on the status of Coastal 2000, the provincial/federal Sustainable Communities Initiative, the Gulf of Maine Council on the Marine Environment and the Southern Gulf of St. Lawrence Coalition on Sustainability.
- Faith Scattolon provided an update on the recent meeting of the Standing Committee on Fisheries and an overview of progress on Canada's Oceans Strategy.
- Tim Anderson reported on recent activities within DFO NF.

- Geoff Lewis reported on presentations made on oil and gas by the NS Premier and on ecotourism by the NF Premier at "Oceanology International Americas" (April, Miami).

6. **PRESENTATION: COASTAL AND AIRPORT WATCH PROGRAM**

Gary Frail, RCMP, made a presentation on the Coastal and Airport Watch Program. Brochures were distributed. Gary reported the following:

- The program is national with counterpart programs in all the provinces.
- Smuggling of drugs, liquor, etc. is a major problem in Atlantic Canada.
- Large quantities of drugs enter the region by boat. The deeply indented and remote coastal areas of NS and NF are favoured by smugglers.
- Smuggling is also carried out by aircraft using remote airstrips to land and off-load cargo.
- The success of the program depends largely on reports from individuals in a position to recognize suspicious activities. Efforts are made to train individuals to look for obvious clues and indicators. 60% of the program's budget is spent on education.
- The RCMP is encouraging partnerships to deliver the program.

7. **PRESENTATION: PEI CIVIC ADDRESSING AND 911**

Jim Ramsay introduced Larry Avery, the Provincial Coordinator of the PEI 911 Program, who made a presentation on the implementation of the Civic Addressing and 911 Emergency Response Systems in PEI. Copies of his overheads are attached. He also introduced Gillian King who is responsible for coordinating efforts to make the civic addressing system web-enabled.

Larry Avery reported the following:

- PEI is 5656 km² in area. Its length is 280 km and its width varies between 6 and 64 km.
- The winter population is 136,388 and the summer population is 250,000.
- An MOU was signed in 1998 to implement 911. The partners in the MOU were the Government of PEI, the cities of Charlottetown and Summerside, Island Tel and the RCMP.
- The three major tasks were: civic addressing; designing and utilizing the technology; and public relations.
- The system was in operation ahead of schedule on 29 May 2000.
- Other uses for civic addressing include tourism applications; service and merchandise delivery; school bus routing; waste watch; etc.
- Future developments for 911 include on-board GPS guidance systems for emergency service providers.
- Larry thanked Jim Ramsay for his vision and dedication to the implementation of the 911 and civic addressing system.

Discussion:

John Burka: Will the 911 system be built into cellular telephones?

Larry Avery: This is at the initial stages of implementation; a 10-year timeframe is anticipated for full implementation. Some states in the USA are enacting legislation requiring that GPS be built in cellular telephones. He added that 30% of 911 calls in PEI were made from cellular telephones and that it was important to educate people on how to report incidents properly.

Dave Finley: Were the civic addresses rationalized to the corresponding properties?

Larry Avery: Quality control and verification were carried out to ensure that this information was correct.

Bill Blight: Will GIS be used in the web application?

Jim Ramsay: The query side has been developed using GIS, e.g., pointing at a road will show its attributes. The web-based system is being developed in communication with potential users. Once established it will be made available to the general public for generating maps.

8. **ROUNDTABLE REVIEW OF COASTAL ZONE ACTIVITIES**

NATURAL RESOURCES CANADA: Cameron Wilson, GeoConnections, reported the following:

- GeoConnections is the national funding program to implement the Canadian Geospatial Data Infrastructure. The CGDI consists of metadata, data and services and is being implemented through several nodes, including:
 - » Access: a partnership program to make geospatial information in government agencies accessible via the Internet through cost-shared development.
 - » Framework Data: a national geospatial information framework of data from various organizations to enable applications and value-added development.
 - » National Atlas of Canada: provides national perspectives on Canada's physical, environmental, economic, social and culture issues. Examples include climate change, industrial development and demographics.
 - » Policy: directed the Canadian Geospatial Data Policy Study conducted by KPMG Consulting. The Executive Summary will be available shortly on the GeoConnections website at <http://www.geoconnections.org>. The Study describes and evaluates current government policies on the creation and distribution of government geospatial data holdings, and considers the impacts of these policies on data users. The Study concluded that framework data should be made more accessible. Participants wanting a copy of the full report should email Cameron at cameron.wilson@ccrs.nrcan.gc.ca.

Discussion:

Dick MacDougall enquired re the process to be followed by public agencies to leverage GeoConnections funding.

Cameron Wilson replied that organizations should start by identifying 'champions' for their proposals, e.g., Michel Poulin within DFO, because of his involvement with the Marine Geospatial Data Infrastructure (MGDI). Proponents should then submit a one-page letter of intent describing their project, followed by a detailed proposal.

Geoff Lewis enquired if DND was involved in the MGDI.

Cameron replied that it was involved, but not as fully as desired by GeoConnections.

Cameron stated that he wished to formally recognize Brad Fay's considerable contributions to the GeoConnections program during his secondment as Provincial/Territorial Coordinator with the GeoConnections Secretariat. Brad has returned to Service NS and Municipal Relations as the Director of Geographic Information Services.

Andy Sherin, Geological Survey of Canada - Atlantic, reported the following:

- Hazard index/erosion maps have been produced for the north coast of PEI and are being produced for Conception Bay South in NF.
- The GSCA conducted a national workshop in collaboration with the Canadian Climate Impacts and Adaptation Research Network (C-CIARN) to evaluate the state of coastal climate impacts and adaptation in Canada. The Proceedings of the Workshop, held on 5-6 March at BIO, are available at http://iss.gsc.nrcan.gc.ca/cciarnc/coastal_zones.asp. The Workshop participants recommended the establishment of a "Coastal Climate Change Node" and provided guidelines for research priorities. The Proceedings include, as an Appendix, a Scoping Report prepared for the Workshop by the ACZISC Secretariat which summarizes the vulnerabilities of Canadian coastal areas, general response strategies and current adaptation projects.
- NRCan's Sustainable Communities Initiative (SCI) is a program that provides technical, training and financial support to communities that wish to use GIS technologies. SCI's objective is to improve the ability of community groups to plan and make decisions. Jean-Claude Henein and Tim West, with the SCI, will be in the region next week to discuss

- projects with community groups. A summary of the SCI was distributed (copy attached).
- The 2nd phase of COASTWEB, located at <http://agc.bio.ns.ca/COASTWEB/>, is scheduled to become available in June. COASTWEB is the GSC's website on coastal geology and physical processes. COASTWEB Phase II will enable the public to provide anecdotal information about the physical aspects of the shoreline they know. The submissions will be used to extend the GSCA's coastal monitoring capacity.
- The GSC is working with the Meteorological Service of Canada to calibrate tide gauges.
- All of the GSCA Creed cruises scheduled for the summer have been cut, as an economy measure.
- The GSCA has received funding to prepare a scoping document re its future activities, including projects carried out in collaboration with other agencies. The GSCA would like to discuss the future requirements of their provincial counterparts in Atlantic Canada. Andy asked the provincial ACZISC representatives to provide him with the names of individuals to contact in this regard.

ACTION 33.16: Provincial ACZISC members to contact Andy Sherin ASAP with the names of personnel in their respective provincial departments of Natural Resources / Mines with whom the GSCA could discuss future provincial requirements for partnered projects

ENVIRONMENT CANADA: Larry Hildebrand reported the following:

- EC's national Ecosystems Initiatives program is in year 4 of its 5-year term and will be up for renewal in the coming year. The Atlantic Coastal Action Program (ACAP) is the eastern component and is managed by Larry Hildebrand. Efforts are being made to secure additional resources to supplement EC's support of community and ecosystem-based programs throughout Atlantic Canada. A strong demonstration of 'outcomes' from ACAP, ecosystem initiatives in the Bay of Fundy/Gulf of Maine, the Southern Gulf of St. Lawrence and Labrador, and supporting initiatives such as ACZISC, will be key to success.
- Many federal departments and programs are active in Labrador. The NF/Labrador Federal Council, under leadership from ACOA, is preparing a strategy for federal involvement and activity in Labrador. Much of the early work will involve awareness of, and coordination among, the data and information needs in this remote ecosystem. The ACZISC Secretariat should approach ACOA re a role for ACZISC.

Eric Theriault reported the following:

- EC's Shellfish Section is starting their summer monitoring season. The Section collects the following unique datasets for NS, PEI and NB:
 - » ASGAD (Atlantic Canada Shellfish Growing Area Database): This numerical dataset includes faecal coliform data routinely gathered as part of the shellfish growing area monitoring program. It also contains salinity and temperature measurements.
 - » EC's GIS datasets include: Shoreline Sanitary observations- with associated text descriptions; Water Quality stations (total of 5476 stations in NS/NB/PEI); and Shellfish Growing Area Classifications. For further information on the Shellfish Program, contact Amar Menon, EC at tel. no. 902-426-9003.
- EC manages the Ocean Disposal Program. It is regulated under CEPA (Canadian Environmental Protection Act) and covers many categories of disposal such as fish waste, ships and dredging materials. The disposal sites are maintained on an in-house database using MapInfo. Anyone needing more details on the locations or type of materials used in any particular area in the region may contact Victor Li, EC at tel. no. 902-426-8305.
- The Environmental Emergencies Section's Atlantic Region Sensitivity Mapping Program (ARSMP) is an inventory of human use and natural resources in Atlantic Canada that may be affected by oil spills. ARSMP also contains strategic information on protecting and

cleaning up oil on shorelines. It was developed in the mid 1990's using MapInfo and relies on partnerships with federal and provincial departments, industries and community groups. Recently the ARSMP has been developed as an on-line web mapping program. This program will provide essential guidelines to the Regional Environmental Emergencies Team (REET) and other partners for planning and responding to environmental incidents. In addition, the online system will be used by EC's Shellfish Section and others as a tool for sustainable ICM. The system is based on Map Excite and HTML 4 technologies. Also, this development meets the requirements and specifications of the "common look and feel" directives of the government of Canada for the internet. The 2nd phase of this project will allow online exchange of data between partners. For further information, contact Stéphane Leblanc, EC at tel. no. 902-426-5894.

CHAMPLAIN INSTITUTE: John Allen and Joanne Cook reported the following:

- The Champlain Institute (CI) recently signed a contract with the Atlantic Salmon Commission in the State of Maine to conduct a comprehensive GIS Needs Assessment and system design for an information management system. When implemented, the system is intended to provide the Commission with greater capabilities to track progress of the State's Atlantic Salmon Conservation Plan and the federal recovery plan. The ASC will use the information system to monitor progress on the implementation of the Atlantic Salmon Conservation Plan. The ASC will also use the system to adapt its management strategies to enhance population recovery and habitat conservation.

ATLANTIC PROVINCES COUNCIL ON THE SCIENCES: John Burka reported the following:

- Six hundred delegates attended the Aquaculture Canada 2001 Conference held on 6-9 May in Halifax. The Minister of DFO announced new funding initiatives for industry-driven DFO partnerships in aquaculture research. The Commons Standing Committee on Aquaculture and Fisheries also attended the meeting, as did Yves Bastien, Commissioner of Aquaculture, and several provincial Ministers and Deputy-Ministers. The political message, as well as the Conference program, suggests that aquaculture will be encouraged by government programs. John suggested that Cyr Couturier (Marine Institute, MUN), President of the Aquaculture Association of Canada, be invited to participate in the upcoming ACZISC meeting in St. John's.
- Yves Bastien, the federal Commissioner for Aquaculture Development, recently released his report on a review of the legislation and regulations governing aquaculture in Canada. It focuses mainly on policy changes required to better serve the development of a sustainable aquaculture industry in Canada.
- An RFP will be issued shortly under the Atlantic Innovation Fund. Several proposals on aquaculture and aquatic animal health are in preparation.
- The Canadian Centre for Excellence in Aquaculture (AquaNet) has just completed a round of granting. New projects in research, education, and socio economic impacts of aquaculture are underway. For details, access <http://www.aquanet.mun.ca/>
- APICS is reviewing its representation on the ACZISC to ensure effective representation by the user community. In the future APICS representation may be from the Aquaculture Committee, a new Environmental Studies Committee or CoGS, which has recently joined APICS.
- AquaGIS (Aquaculture Geographic Information System) has been established with funds from DFO and the Government of NF and Labrador for collecting, managing and distributing information on aquaculture in coastal waters. ACZISC members are encouraged to consider AquaGIS for managing their aquaculture information.

David Boyce reported that the PEI Aquaculture Alliance was formed in 1998 to enhance PEI aquaculture through its development as an effective competitor internationally.

PUBLIC WORKS AND GOVERNMENT SERVICES: Bill Blight reported the following:

- PWGSC:
 - » has purchased new digital base maps across Canada.

- » is undergoing ISO certification. Procedures for quality control are being finalized.
- » is increasing its use of the web to distribute data and teleconferencing to hold meetings.
- » has upgraded and standardized GPS across Canada.
- » is preparing a secure portal as part of the Government Online initiative. A Business Establishment Task Force has been formed; it will be issuing a multi million dollar RFP.
- PWGSC's Environmental Section is busy with site remediation work.
- A Centre of Expertise has been proposed for the Moncton Office of PWGSC. It would be headed by Michel Goguen.
- The Department has been approached by Dr. Larry Mayer, with the University of New Hampshire, re participating in a project to study the capabilities of various sensors for data acquisition in coastal environments. The majority of the work would focus on the 4-8 metre depth range. PW would provide the benchmark.
- CHS and PWGSC are considering combining their resources to produce chart insets; they are also reviewing the management of 'Notices to Mariners'.

FISHERIES AND OCEANS CANADA: Steve Kempton stated that he was hired in late February 2001 to fill the new position of Coast Guard Liaison Officer, Maritimes Region. The key activities of the position are to:

- coordinate CCG input on issues relevant to implementation of the Oceans Act, and serve as branch contact/representative in the promotion of the Oceans Agenda
- coordinate CCG input on issues related to Species at Risk, such as the Right Whale Recovery Plan
- serve as liaison between the CCG and other DFO sectors, government departments (all levels), and other agencies and organizations as required
- participate as a Field Team member in the Sustainable Communities Initiative
- identify, analyse and facilitate regional collaboration on cross-sectoral initiatives

Steve added that he would undertake to provide a complete inventory of databases and mapping projects within the CCG.

Dick MacDougall, Canadian Hydrographic Service, reported the following:

- CHS has received, nationally, \$9.7 million new funding for 2001-02 and \$4.8 million for 2002-03. It will receive 0\$ for 2003-04. The funding is provided to address specific issues: off-datum charts, aids modernization, 100% bottom coverage of channels, electronic charts, and chart modernization. The money will be used to clear the backlog of notices from aids to navigation changes, fix as many off-datum charts as possible, complete basic electronic navigational chart coverage and carry out strategic surveys. CHS has to plan a workload which will be sustainable in two years when the funding comes to an end.
- This year surveys will be carried out in NF and Labrador: Notre Dame Bay, St. Anthony and Red Bay.
- CHS has had discussions with PWGSC related to making use of their survey capabilities to carry out revision work in harbours.
- There is a need for CHS to develop a data exchange protocol with Small Craft Harbours in order to obtain access to the plans of SCH harbours and devolved harbours. These are required for charting.
- SeaMap is a concept to systematically map the submerged lands of Canada's three oceans and the Great Lakes and to create a base map of the seabed shape (and depth); sediments; plant life; and animal life.
 - » SeaMap was funded by DFO, NRCan and DND in 2000 to prepare a business case, an implementation plan and a funding proposal. This involved national workshops, briefings and presentations at conferences.
 - » The current focus is on raising awareness with politicians and senior federal bureaucrats in Ottawa through interdepartmental briefings. To date the feedback has been positive. The goal is have funding for SeaMap in the next federal budget.

- » There will be SeaMap exhibits at the CoastGIS and Digital Earth conferences.
- » This summer a student will be working on 'fly throughs' and enhancements to the SeaMap website (<http://www.seamap.bio.ns.ca>).

Discussion:

Geoff Lewis enquired re the status of Neptune, a proposed undersea network to monitor the seafloor, specifically the Juan de Fuca plate, and the ocean above it.

Mike Butler reported that funding was being sought for a pilot project entitled 'Victoria Experimental Network Under the Sea (VENUS)'. The pilot would focus on science in the shallower waters near the planned NEPTUNE shore station in Victoria, BC.

Steve Kempton enquired if SeaMap would be mapping the coastal zone.

Dick MacDougall replied that the coastal zone, an area which is difficult to deal with and to estimate re mapping costs, is not included in the SeaMap proposal. DND is making a small amount of funding available to assess the problems associated with mapping the nearshore.

Andy Sherin added that the MGD I workshops held in 2000 identified the requirement for a seamless database of the coastal zone.

Tim Anderson, DFO NF, reported the following:

- A thematic node of the national DFO/SSHRC Ocean Management Research Network has been established at Memorial University. The node will focus on sustainability.
- A DFO discussion paper entitled *The Management of Fisheries on Canada's Atlantic Coast* was the focus of public consultation meetings held throughout Atlantic Canada. The Province is drafting a response.
- The Placentia Bay project is a federal/provincial initiative aimed at developing a coastal zone plan. The biophysical overview and the socio-economic overview have been completed. An ecological overview will be prepared based on these reports.
- Research and consultations are continuing into the two recently announced areas of interest in the Marine Protected Area program: Eastport, NF and Gilbert Bay, southern Labrador. Other sites are under consideration and may be announced in the near future.
- In partnership with EC Atlantic's Integration and Interpretation Section, DFO NF has produced a simulated GIS CD that maps Marine Environmental Quality, including sewage outfalls, marine sediments, point sources of pollution, communities and shellfish closures. The marine sediments are colour coded to reflect the degree of environmental concern. The final version will be available this fiscal year.

Faith Scattolon, DFO Maritimes Region, reported the following:

- Gary Bugden's high-resolution mapping in the Bras d'Or Lakes using CASI is being linked to the SIMBOL (Science for Integrated Mapping in the Bras d'Or Lakes) project.
- 'Oceans Explorations 2001: Learning from our Oceans', a collaborative IOIC/CBC/DFO Project, is designed to encourage a dialogue on Canada's oceans and coastal zones.
 - » A series of three panel discussions is being organized. The series began with the Atlantic Panel at Saint Mary's University in Halifax on 6 April 2001. The 2nd panel will be held in Victoria, BC on 24 May and the final panel in Iqaluit, Nunavut on 19 June. Paul Kennedy, host of CBC Radio One *IDEAS*, is moderating the panels.
 - » Excerpts, supplemented by interviews, will be broadcast on *IDEAS* in a series of eight one-hour programs in December 2001. The series will be rebroadcast in 2002.
 - » Information on the Project is available on the CBC Ideas website at <http://www.radio.cbc.ca/programs/ideas/oceans> and on the Oceans Canada website at <http://www.oceanscanada.com>.
- \$1.29 million is being made available over three years for the Ocean Management National Research Network, a strategic joint initiative of SSHRC and DFO. A workshop was held in Aylmer, QC last June to plan the Network. Following an RFP issued in 2001, the Gorsebrook Research Institute of Saint Mary's University, in partnership with the OIC, has been chosen as the national Secretariat for the Network. The three national research nodes

and their themes are:

- » Building capacity for research, Simon Fraser University in Burnaby, BC
- » Adaptation to climate and change, the University of Manitoba in Winnipeg, MN
- » Developing Sustainability, Memorial University in St. John's, NF.
- The timelines have changed for reporting re the Public Review on the effects of potential oil and gas exploration and drilling activities off Cape Breton. Dr. Teresa MacNeil, the Commissioner of the Public Review, will not be reporting until March 2002. Scoping meetings will be held this fall and public consultations early 2002. DFO will be holding a Regional Advisory Process (RAP) meeting in November; a habitat status report indicating the potential impact will be provided to the Commissioner.
- Aquaculture sites are being reviewed under the Canadian Environmental Assessment Act (CEAA). DFO, as well as the Provinces, are looking for opportunities to do coastal zone planning, including aquaculture siting.
- Canada's Oceans Strategy received a brief mention in the Speech from the Throne last January. The Oceans Strategy is one of DFO's four key policy areas, in addition to an Aquaculture Framework, Fisheries and the Marshall Decision.
- Faith appeared before the Standing Committee on Fisheries and Oceans in Halifax on 8 May. Presentations were also made by the NS Ecology Action Centre and the Sierra Club. The Committee was interested primarily in discussing the oil and gas exploration process and clarifying the difference between MPAs and NMCAs.

Mike Butler added that background documents on both the Ocean Management Research Network project and Oceans Explorations are available from the ACZISC Secretariat.

INDUSTRY CANADA: Geoff Lewis reported the following:

- Several participants, including the President of the National Research Council, attended meetings in February on the establishment of an Ocean Industry Innovation Cluster in St. John's, NF. The steering committee will be meeting to decide on a "Champion" to head this initiative. An announcement re funding for the Innovation Cluster appears to have been delayed.
- Geoff attended the "Oceanology International Americas" (OIA) exhibition and conference and the Offshore Technology Conference (OTC). He has material on both including the Technical Proceedings on CR-ROM. Contact Geoff for further information. Numerous ocean mapping firms participated at OIA; HDI, IVS, SeaMap and CARIS were among 28 exhibiting mapping systems. Optech (<http://www.optech.on.ca>) was particularly notable as it had a large stand staffed by a dozen people; it gave interesting presentations on new developments in marine and land based LIDAR. Geoff stated that he would provide information on the Optech products to the Secretariat for distribution to members.
- The federal government will be responding shortly to the Shipbuilding Task Force Report. Among other things, IC will be undertaking a Technology Road Map (TRM) initiative in Ocean Technology. More information will be made available when plans are finalized.
- David Mulcaster will not be returning to Industry Canada following his sick leave. He has joined the Global Information Network Institute (GINI) at Dalhousie University. George Richard (IC Moncton) will be acting Regional Executive Director for the Atlantic Region of Industry Canada for the foreseeable future.

ACTION 33.17: Geoff Lewis to provide the Secretariat with information on Optech sensors for distribution to members

MARINE INVERTEBRATE DIVERSITY INITIATIVE: Heidi Schaeffer, MIDI Project Coordinator, reported the following:

- MIDI is a web accessible database system designed to document and map knowledge of marine invertebrates of the Scotian Shelf, Bay of Fundy and Gulf of Maine. It is a joint

- project between the Ecology Action Centre, DFO, EC, the NS Museum of Natural History, the Integrated Coastal Planning Project at Dalhousie University, Centre of Geographic Sciences, Gulf of Maine Council, and a number of private citizens.
- 60 people attended a MIDI Workshop held at BIO on 9 January. Workshop topics included: species status sheets; habitat mapping and classification; a framework for regional biodiversity collaboration; and making MIDI friendly to non-scientists.
 - A message board for sharing information has been incorporated into the MIDI website at <http://www.fundyforum.com/MIDI>
 - HRDC funds have been obtained to hire a summer student. The student's geographic area of focus will be St. Margarets Bay.
 - MIDI will be holding its 1st AGM from 7-9 pm on 21 June 2001 at BIO in Dartmouth.
 - MIDI is housed at BIO and is seeking funding to continue its operation.
 - A workshop entitled 'Marine Biological Invasions: A Perspective on Atlantic Canada and New England' is scheduled for 13-15 May 2001 at the University of Kings College in Halifax.

John Burka enquired if MIDI had made contact with the Huntsman Marine Science Centre in St. Andrew's. The Atlantic Reference Centre at Huntsman has a large collection of marine species. Heidi responded that Dr. Gerhard Pohle, Curator of Invertebrates with the ARC, was involved with MIDI.

GOVERNMENT OF NEW BRUNSWICK: Réjean Castonguay reported the following:

- The GEOIDE 2001 Conference is scheduled for 20-22 June 2001 in Fredericton in conjunction with Digital Earth. The Conference will feature the workshop 'Geomatics for Coastal Zone Environments'. Réjean has been asked to make a presentation at the workshop.
- Réjean suggested that future ACZISC meetings could devote more time to topics related to provincial coastal issues.

Marianne Janowicz reported on the following NB policies and regulations and other initiatives related to the coastal zone:

- The Coastal Lands Policy will be developed as part of a larger, ICM initiative.
- The Marine Policy is being reconsidered with a change in focus from 'framework' to a 'true policy initiative'.
- The Wetlands Policy is based on 'no loss' of provincially significant wetland. Direction is being sought from government on the next step toward implementation
- The Pits and Quarries Policy establishes quarriable substance resources as a matter of provincial interest. Many pits and quarries are located in the coastal zone.
- The Water Classification Regulations focus on outreach and partnering (engaging communities) as the delivery mechanism for managing watersheds. The regulations are ready for the NB Government to initiate implementation.
- The NB Department of Agriculture, Fisheries and Aquaculture (DAFA) is developing a revised process for shellfish site allocation.
- A new site allocation policy for finfish aquaculture was released by the DAFA in October 2000. Sixteen applications have been received subsequently; one has been approved and a few more are being considered. Contentious issues relate to habitat degradation and CWS concerns regarding migrating birds. A monitoring program has been established including measurements of the benthic environment and follow-up remediation. The program is time consuming.
- The Department of Environment and Local Government is now responsible for the Sustainable Development projects.

Bill Blight enquired if NB was considering allowing development on wetlands in exchange for restoring or creating them nearby. Marianne responded that 'no net loss' in wetlands area was the last option.

Dave Finley reported on Digital Earth 2001 scheduled for 24-28 June 2001 in Fredericton, NB and reported on the program highlights. Digital Earth will integrate five events: the 2nd International Symposium on Digital Earth, the Canadian Conference on Geomatics, the Canadian Institute of Geomatics Annual General Meeting, TExpo, Geomatics Atlantic, and the CEOS EO/GEO Workshop. The Program features several workshops, 5 concurrent paper sessions, 170 speakers and 60-80 posters. The theme of the conference is "Beyond Information Infrastructure". This theme incorporates a broad Geomatics and Information Systems community dealing with integrated spatial applications. This conference will demonstrate integration in a digital world and beyond.

PARKS CANADA: Rob Thompson reported that Bill C-10 - An Act respecting the national marine conservation areas of Canada – received 1st reading in February; the Act is now before Parliament for its 2nd reading. The Act is available on the Parks Canada website at http://www.parcscanada.gc.ca/nmca/nmca/act/index_e.html.

Politics are playing a role in the current lack of support for the bill. The Bloc Québécois feels that the bill is treading on provincial jurisdiction and the Canadian Alliance is suggesting that the bill is not respecting the rights of rural Canadians. There are also concerns that Parks Canada would be involved in the marine sector and that there is an overlap between NMCAs and MPAs. The focus area for NMCAs currently is in the Great Lakes and on the West Coast. The next hurdle to overcome is the Standing Committee on Fisheries and Oceans. The Policy for marine areas was approved in 1994.

Faith Scattolon enquired if directional drilling would be allowed in an NMCA in the highest protection category. Rob responded that it would not be allowed.

COMPUTER, ENVIRONMENTAL AND FISHERIES CONSULTANTS: Joanne Cook reported that CEF was involved primarily in EIAs. The company has also been a participant in regional initiatives including GoMINFOEX and MIDI.

Joanne distributed a one-page summary on a pilot project to develop sustainable community indicators based on the SCIP software (copy attached). CEF would like to carry out a project to test the software. A proposal has been submitted to the MGDI via GeoConnections, DFO and CRP. Participants suggested that CEF could also approach the Coastal Communities Network, GeoConnections' Sustainable Communities program and IC's Smart Communities program. Contact Joanne or Norval Collins for more information.

GOVERNMENT OF PRINCE EDWARD ISLAND: Jim Ramsay reported the following:

- The Province is a participant in the High-Resolution Coastal Mapping Project.
- The PEI Land Use Coordinating Committee is now operational again; it will act as a sounding board for policy re coastal and marine issues for the PEI Government. However, it is not responsible for producing policies.
- PEI will be producing an inventory of GIS databases, including attributes, and a data dictionary.
- PEI has introduced an Act which will enforce buffer zones and mandatory crop rotation.

GOVERNMENT OF NOVA SCOTIA: Andy Cameron reported the following:

- There is an effort to involve the NS Department of Intergovernmental Affairs in coastal and marine issues and programs, including marine issues on the agenda of the New England Governors/Eastern Premiers Conference series. This approach was introduced by the State of Maine at a NEG/ECP planning meeting and supported by Nova Scotia. ESSIM and Sable Island Trust are other initiatives in which Intergovernmental Affairs could be involved.
- Progress is being made in the Guysborough Aquaculture Planning Initiative. Draft Terms of Reference have been prepared and \$68K of the proposed \$250K budget has been committed.
- The groups interested in creating UNESCO biosphere sites in NS are meeting on 3 June in

Lunenburg to discuss issues of mutual concern.

SOUTHEAST ENVIRONMENTAL ASSOCIATION: David Boyce reported the following:

- The agricultural bacteria project is moving ahead. A report of the work over the past three years is available in the Province's technical report series. Year four has been funded and work will commence later this month. The area of study is being expanded to a 'watershed approach'.
- SEA has worked with EC to develop fish and invertebrate sampling protocols for examining small-scale fish kills. The manual, now available, goes beyond determining cause to look at the scope of the damage and make it possible to place an economic value on the damage or loss.
- SEA is working with Trefor Reynoldson from NWRI and Acadia University's ACER to develop standards and the database for the NWRI/ACER referenced index approach for monitoring invertebrates and water quality.
- SEA has been chosen as a host community by NRCan's Sustainable Communities Program. It will be establishing a community-built database that will be available online and will contain information that is geo-referenced for mapping purposes.
- The number of volunteers has doubled as SEA's volunteer water quality monitoring program enters its 2nd year. Seamans Beverages has signed on as a sponsor and has provided posters for marketing the program.
- SEA has had papers accepted for the Canadian River Heritage Conference in Fredericton and the CoastGIS Conference in Halifax in June.
- SEA welcomes high-resolution project work for its area to help model the risk of flooding to the coastal infrastructure.
- SEA has been asked by the UPEI and AVC to take over the tourism, visitation, merchandising and science camps held at the Cardigan Fish Hatchery and its new building, the Cardigan Water Science Centre. Work will commence immediately with programming to parallel last year's activities. An expansion is planned for next year.

ATLANTIC TECHNOLOGY CENTRE: Stephen Murray reported the following:

- The Atlantic Technology Centre (ATC) will provide PEI's emerging IT industry with state-of-the-art office space, an IT Education and Training Academy, a business incubator, specialized research labs, multimedia theatres, digital audio and video editing facilities, smart boardrooms, a café and exhibition areas.
- The ATC will be housed in a new 126,000 square-foot complex to be constructed in Charlottetown beginning this spring. Late summer 2002 was set as the completion date for the project. The total cost of the building and the technology will be \$25 million.
- Input is being sought on software for the ATC, including: bio-resources, infomatics and interactive media.
- The ATC will be owned and managed by ATC Inc., an arms-length corporation with a board of directors comprised of key stakeholders. The ATC will be the most advanced facility of its type in Atlantic Canada.
- The ATC is designed to attract new and existing IT companies working in the early stages of the innovation cycle, including: applied research, new product and solutions development, testing and pre-commercialization.
- For additional information, access <http://www.techpei.com>.

ACTION 33.18: Participants to contact Stephen Murray ASAP with their 'wish list' for software and equipment to be included in the ATC

GEONET TECHNOLOGIES INC: Stephen Hurst reported that he was the chairman of GeoNet, a mapping company based in PEI. The company is considering establishing a 'coastal risk mapping agency'. Potential clients include the US, Asia and Africa. Other major potential clients include insurance agencies and banking agencies. A proposal will be developed over the next year.

UPDATES ON ACZISC RELATED PROGRAMS

BAY OF FUNDY ECOSYSTEM PARTNERSHIP: Mike Butler reported that a meeting of the BoFEP Steering Committee was scheduled for 16 May in Sackville, NB. BoFEP has several Working Groups addressing issues such as ICZM, Ecotourism, and Coastal Development. Further Information on BoFEP is available at <http://www.auracom.com/~bofep/>

COASTGIS: Andy Sherin reviewed the program for CoastGIS 2001 scheduled to take place from 17-20 June 2001 at St. Mary's University in Halifax, NS. The theme is "Managing the Interfaces". The keynote lectures are: "The newly formed GeoData Alliance: If not this, what then?" by Susan Lambert, Kentucky Office of Geographic Information; "Coastal management as a key component of ocean governance: The challenge" by Adalberto Vallega, International Geographical Union; and "Trends in geomatics technology" by Y.C. Lee, University of New Brunswick. For more information, access <http://www.coastgis.org>.

Herb Ripley reviewed the status of exhibitions and available space at CoastGIS.

Andy added that the participants at CoastGIS would consider the requirement to form an international CoastGIS organization. Its role would include the selection of conference venues and the coordination of proceedings and publications.

COASTAL ECONOMIC STUDIES: Tim Anderson reported that a federal/provincial committee had been formed in NF to initiate a coastal zone economic study for the Province. The terms of reference have been drafted and efforts are under way to access funding.

Mike Butler reported that the ACZISC was part of a consortium doing a "Study to Estimate the Economic Value of Ocean-Related Sectors within the PEI Economy". A Steering Committee has been established, chaired by Dave Gillis, PEI Department of Department of Fisheries, Aquaculture and Environment. The Study is scheduled for completion in December 2001.

The conclusion of studies in PEI and NF will complete coverage of the four Atlantic Provinces.

COASTAL ZONE CANADA ASSOCIATION AND CONFERENCES: Larry Hildebrand reported the following:

- The Coastal Zone Canada Association is finalizing the CZC 2000 post-conference report entitled 'Beyond 2000'. The report provides a summary of the discussions at CZC 2000 held in September 2000 in Saint John, NB and sets an agenda for action. 'Baseline 2000', a comprehensive state-of-the-art assessment of the field of Integrated Coastal Management internationally, was prepared for CZC 2000. A summary of 'Baseline 2000' was made available to participants at the Saint John conference. A full Background Report, updated since the conference, will be posted on the CZCA website in June.
- The next CZC conference will be held in Hamilton, Ontario on 24-28 June 2002. The theme will be 'Managing Shared Waters: Capacity Building for Sustainable Transboundary Coastal Ecosystems'. A preliminary announcement will be issued shortly.

Tim Anderson reported the following:

- Three CZC seminars were organized for St. John's dealing with Placentia Bay issues, with particular reference to oiled seabirds. The agenda included a presentation by CAPP on oil and gas exploration and development. Two were cancelled due to bad weather.
- A committee of federal, provincial and academic representatives has been formed to plan and organize CZC 2006 scheduled to take place in St. John's. Three meetings have taken place to date and issues such as timing and themes have been discussed.

FUNDY FORUM: Claudette LeBlanc reported the following:

- The Fundy Forum Advisory Team has been established; she and Larry Hildebrand are members. The role of the A-Team is to provide direction and guidance to the Fundy Forum. The 1st meeting of the A-Team was held via conference call on 22 January.
- A Youth Forum is being developed for the Fundy Forum website located at <http://www.fundyforum.com>.
- Fundy Forum hosted its 8th Timed Discussion on the topic of the Bay of Fundy Biosphere Reserve Proposal in April. The discussions are archived on the Fundy Forum website.

GULF OF MAINE COUNCIL ON THE MARINE ENVIRONMENT / GLOBAL PROGRAMME OF ACTION COALITION FOR THE GULF OF MAINE: Andy Cameron reported the following:

- The GoM Working Group will be meeting on 22-23 May in Bar Harbour, Maine. The agenda will deal mainly with the next 5 year GoMC Action Plan; the major issues to be addressed in the Action Plan are Habitat, Contaminants, and Sustainability.
- A GPAC meeting is currently taking place on 9-10 May in St. Andrews, NB. Duplication of efforts between the GoM and GPAC is being discussed.

Marianne Janowicz reported that a Gulf of Maine Aquaculture Committee has been formed; she is one of the co-chairs. The Committee is planning a workshop on physical remediation in September 2001. The workshop will focus on the movement of shellfish and broodstock and the threats of disease transmission.

MARINE GEOSPATIAL DATA INFRASTRUCTURE: Mike Butler reported that a paper entitled *MGDI: An Information Infrastructure to Support Integrated Coastal Management in Canada* was published in the 1st edition of GeoCoast - the Online International Journal of Geotechnologies for Integrated Coastal Zone, available at <http://www.geocoast.co.uk>

SOUTHERN GULF OF ST. LAWRENCE COALITION ON SUSTAINABILITY: Larry Hildebrand reported the following:

- The Southern Gulf of St. Lawrence Coalition on Sustainability held its first AGM in Bouctouche, New Brunswick on 6-7 April 2001. A new Steering Committee was elected with several ACZISC members on the Board. Larry Hildebrand and Jean-Paul Vanderlinden (Université de Moncton) will serve as co-chairs for a 2nd year.
- The Coalition will be launching its new website shortly and is developing a 5-year workplan.

9. **ANNOUNCEMENTS AND PUBLICATIONS**

Larry Hildebrand announced that the 2001 Canadian Coastal Conference, organized by the Canadian Coastal Science and Engineering Association (CCSEA), would be held on 16-19 May 2001 in Québec City. The theme of CCC'01 is *Coastal Science and Engineering, Challenge for the New Millennium*.

Oceans and Coasts - Rio +10 is scheduled for 3-7 December 2001 at the UNESCO Headquarters in Paris, France. The theme of the global Conference is *Assessing Progress, Addressing Continuing and New Challenges*.

10. **OTHER BUSINESS**

No new business was discussed.

11. **ADJOURNMENT**

ACZISC Meeting #33 adjourned at 17:00 hrs.