

# MINUTES OF ACZISC MEETING #18

## Atlantic Coastal Zone Information Steering Committee

*Date:* Friday, 28 June 1996 - 0830 hrs.

*Location:* PEI Department of Agriculture  
Centre for Animal and Plant Health  
Charlottetown, Prince Edward Island

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<b>NAME</b>	<b>AFFILIATION</b>	<b>TEL. NO.</b>
<b>Present:</b> * indicates ACZISC member		
Michael Butler*, Chair	Oceans Institute of Canada	(902) 494-1977
Paul Caines	Parks Canada	(902) 672-6352
Réjean Castonguay*	Province of New Brunswick	(506) 453-3917
Norval Collins	CEF Consultants Ltd	(902) 425-4802
Brigitte Dagneau	Université Laval	(418) 621-0756
Linnell Edwards	Agriculture and Agri-Food Canada	(902) 566-6871
Kimberley Edwardson	Geological Survey of Canada - Atlantic	(902) 426-2582
Brad Fay*	Province of Nova Scotia	(902) 424-4966
Larry Hildebrand*	Environment Canada	(902) 426-9632
Claudette LeBlanc	Oceans Institute of Canada	(902) 494-1977
Brian Nicholls*	Fisheries and Oceans Canada	(902) 426-3246
Mike Pearson	GIAC (for Andy Power*)	(902) 887-3170
Jim Ramsay*	Province of Prince Edward Island	(902) 368-4075
Bob Rutherford	Fisheries and Oceans Canada	(902) 426-8398
Andy Sherin*	Natural Resources Canada	(902) 426-7582
Eric Theriault*	Environment Canada	(902) 426-9558

### 1. **WELCOME AND INTRODUCTION OF PARTICIPANTS**

Mike Butler, ACZISC Chair, called Meeting #18 to order at 08:30 hrs. He welcomed guests and thanked Jim Ramsay for making arrangements for the meeting room and the Province of Prince Edward Island for providing lunch. A roundtable introduction of all participants followed.

### 2. **ADOPTION OF AGENDA, AND REVIEW AND APPROVAL OF MINUTES FOR MEETING #17**

The provisional Agenda for Meeting #18 was reviewed. Mike Butler noted that a presentation provisionally scheduled for 13:00 hrs had not been filled to allow the meeting to adjourn early. This would make it possible for interested individuals to participate in a tour of the Fixed Link assembly yard later in the afternoon, organized by Jim Ramsay. The agenda was approved (copy attached).

The minutes of ACZISC Meeting #17 were reviewed and the following revisions were made:

*Page 12:* **NATURAL RESOURCES CANADA/GEOLOGICAL SURVEY OF CANADA - ATLANTIC:** last sentence of first paragraph... "Andy added that the GSC-Atlantic was interested in partnerships to carry out this work; in PEI it will be working with Parks Canada." should read "Andy added that the GSC-Atlantic was interested in partnerships to carry out this work; in PEI it will be working with Parks Canada **and the Province.**"

*Page 13:* **NEW BRUNSWICK:** first paragraph... "There will one Director responsible for each of Assessment, Registry and Mapping and one responsible for the remaining activities. Also two regional offices will be closed." should read "There will one Director responsible for **Assessment, Registry and Mapping combined.** Also two **registry** offices will be closed."

The minutes were approved with the above revisions.

### 3. ***STATUS OF ACTION ITEMS***

The Action Items from Meeting #17 are in progress or were completed, other than the following:

**COASTAL ZONE/CONFERENCE OF ATLANTIC PREMIERS:** It was actioned that the ACZISC Secretariat make a request to the Secretariat of the Conference of Atlantic Premiers that the coastal zone and its economic benefits be added to the agenda of their next meeting. This will be carried out after the planned economic analysis of the coastal zone has been completed (Agenda item #7).

**COASTAL THEMATIC LAYERS:** It was actioned that the ACZISC Secretariat distribute previously documented lists of coastal thematic mapping layers/parameters for reference. A list compiled by Oaktree Consultants will be provided to participants requesting it.

**LETTERS RE CANADA OCEANS ACT AND POLICY:** It was actioned that the ACZISC Secretariat and member jurisdictions write letters to the Minister of Fisheries and Oceans regarding their jurisdiction's requirements and concerns re CZM Policy and the Canada Oceans Act. This has been put on hold due to the Act "being pulled". The Act will be retabled for 3<sup>rd</sup> reading at the next sitting of Parliament. This Action Item will be reactivated at a later time.

Other outstanding Action Items will be discussed in further detail within the context of the Workplan and Working Group reports (Agenda item #4).

### 4. ***ACZISC WORKPLAN***

**MEMBERSHIP:** Mike Butler reported on developments in ACZISC membership:

Province of Québec: ACZISC contact with the Province of Québec has been made via Yvan Vigneault of DFO Région Laurentides and progress has been made. A letter was written by the ACZISC Secretariat to a representative of the Province two years ago. Members recommended that another letter be written.

***ACTION 18.1: Secretariat to write a follow-up letter to the Province of Québec briefing the Province on ACZISC activities and extending an invitation to become an ACZISC member.***

Agriculture and Agri-Food Canada: Discussions have been initiated by Joe Arbour with Ken Webb at the Agriculture College in Truro re membership by Agriculture and Agri-Food Canada on the ACZISC. Mike welcomed Linnell Edwards from the Agriculture Research Centre in Charlottetown as a representative of the Department at today's meeting. He added that further consultation would take place re membership by the Department on the ACZISC.

APICS: Brian Nicholls enquired who represented APICS on the ACZISC. Mike Butler stated that APICS is represented by Joan Atkinson, Executive Director of APICS, Memorial University. ACZISC minutes are sent to Ms. Atkinson and to the chairs of appropriate APICS committees.

Fisheries and Oceans Canada: Brian Nicholls enquired why the Coast Guard was being shown individually on the ACZISC membership list. Mike stated that although the Coast Guard had merged with DFO, it is paying ACZISC membership dues separately. The question of whether the Coast Guard should be shown separately or as a subset of DFO on the ACZISC letterhead was discussed; no decisions were made.

Mike suggested that Chris Morry, DFO Ottawa be invited to participate on a regular basis in ACZISC meetings in view of DFO's lead role in CZM and Chris' responsibility for coastal zone coordination within DFO.

Newfoundland: Mike reported that provincial representation is determined internally within each province. Although appointed Newfoundland's representative in 1992 by the deputy ministers of Fisheries and Environment and Lands, Neil MacNaughton's participation on the ACZISC has not been supported by his Department. However, other avenues are being pursued, including the Nfld Department of Industry which has indicated a willingness to participate actively and to provide the necessary financial support.

ACZISC members have recommended that quarterly meetings not take place in Newfoundland until the Province becomes a paid-up member. Réjean Castonguay commented that the economic spin-offs to Newfoundland from hosting an ACZISC meeting must be considerably more than the ACZISC membership dues.

Réjean suggested video conferencing as an alternate method of participation by ACZISC members. Video conferencing facilities are widely available in Atlantic Canada. For example, Andy Sherin reported that facilities were available from Dalhousie University at \$100/hr and Paul Caines stated that Human Resources Canada also provided facilities at \$100/hr.

***ACTION 18.2: Réjean Castonguay to investigate the cost of using video conferencing facilities to link with the Province of Newfoundland for the next ACZISC meeting.***

An up-to-date list of ACZISC members with mailing and email addresses and telephone and fax nos. is attached.

**BUDGET/FUNDING SUPPORT:** Mike Butler circulated the following financial documents (copy attached): ACZISC 1995/96 Budget and Proposed 1996/97 Budget; and Membership Dues/ Revenue Summary 1995/97.

***ACTION 18.3: Members to review the ACZISC financial documents and provide comments to the Secretariat.***

Mike reported that an accumulated deficit of \$12K by year end 1995/96, primarily due to non payment of membership dues, was covered by DFO and EC contracts. Actions are being taken to overcome this problem in 1996/97. In response to Brad Fay's enquiry, Mike stated that ACZISC members were invoiced yearly for membership dues. He added that the problems faced by the provincial reps when attempting to cost share membership dues among several provincial departments were recognized.

Mike reported on the status of the yearly contribution made by the Council of Maritime Premiers (CMP) to support the activities of the ACZISC/Oceans Institute of Canada. He read a letter (copy attached) from the Maritime Geomatics Committee (MGC) of the CMP which makes recommendations to the Council regarding matters relating to geomatics. The letter stated that, following a review of the ACZISC 1996/97 Proposed Budget and Workplan, the MGC had recommended that funding to the ACZISC be continued in the amount of \$50K for fiscal year 1996/97. The status of ACZISC 1996/97 deliverables will be reviewed at an MGC meeting in April 1997.

According to the agreement with the CMP for continued support of the ACZISC, the Committee is obligated to obtain \$50K matching funds this fiscal year. DFO Ottawa was approached in view of the Department's lead role in the proposed Canada Oceans Act and CZM. However, a negative response has been received from Minister Mifflin due to financial constraints. The federal Working Group on Integrated Coastal Zone Management, constituted under an MOU between Agri Can, DFO, EC and NRCan and chaired by Gerry Swanson of DFO, is also being approached for matching funds.

The current members of the MGC are Mavis Hurley, newly appointed Deputy Minister of Service New Brunswick and the NB Geographic Information Corporation (adviser - Mary Ogilvie); Mike Kelly, Deputy Minister of the PEI Department of the Provincial Treasury (adviser - Jim Ramsay); and Patricia Ripley, newly appointed Deputy Minister of the NS Department of Housing and Municipal Affairs (adviser - Nancy Vanstone).

Mike stated that the Premiers receive briefs from the MGC as required; therefore effective communication with the MGC re ACZISC activities is extremely important. In particular, it would be beneficial to the ACZISC if members representing the Maritime Provinces write letters of support to the MGC. These letters could impact on the MGC's recommendations to the CMP regarding the ongoing support of the ACZISC by the CMP. Jim Ramsay reported that the MGC, in its past briefing notes to the Premiers, had highlighted the ACZISC's effectiveness in its interdepartmental liaison activities and its communication, e.g., the ACZISC minutes and the Database Directory.

***ACTION 18.4: Members representing the Maritime Provinces to write letters to the MGC in support of ACZISC initiatives and deliberations which result in benefits to their Province.***

Jim also stated that it was important for the ACZISC to adhere to its Terms of Reference for continued support by the MGC; he added that the Terms of Reference would have to be revised if ACZISC activities change. Mike commented that the Terms of Reference are reviewed on a regular basis by the ACZISC Executive Committee (Paul Bellemare, Mike Butler, Art Longard and Andy Power) and recommendations for changes will be made to the Committee as a whole if changes are deemed appropriate.

***ACTION 18.5: Executive Committee to review the ACZISC Terms of Reference and make recommendations for revisions, if deemed appropriate, to members at the next meeting.***

**WORKPLAN:** Participants reviewed Workplan documents (copy attached) circulated by Mike Butler: 1995/96 and Proposed 1996/97 ACZISC Workplan and Time Allocation for M. Butler and C. LeBlanc; the ACZISC Project Summaries; and the Infrastructure Diagram.

Mike reported that the Workplan had been reviewed by the ACZISC Executive Committee, the Oceans Institute, the CMP and the MGC.

***ACTION 18.6: Members to review the ACZISC workplan documents and provide comments to the Secretariat ASAP.***

Mike reported that, unfortunately, more and more time was being spent by the Secretariat in identifying funding support for the ACZISC.

**DATABASE DIRECTORY:** Claudette LeBlanc, chair of the Database Directory Working Group, reported that, as actioned at the last meeting, she had contacted Ron Swan of Unisys re Atlantic Canada On-line and the possibility of posting the Database Directory on the network. The Atlantic Canada On-line team anticipates it will be in a position to discuss the possible posting of, or linking to, the Database Directory on the network late this fall. Claudette added that she would contact Ron at that time to pursue discussions.

The Atlantic Canada On-line team consists of: Unisys with systems expertise; ISTAR/Software Kinetics with expertise in Internet access; Ameritech - an American regional Bell operating company with expertise in civic link technology, i.e. auditing, billing, etc.; and Corporate Communications from Halifax with expertise in marketing research.

An agreement was signed with the Maritime Provinces in May re implementing Atlantic Canada On-line. Currently discussions are ongoing with NB and NS re the Provinces' Personal Property Registry. PEI is also interested. It is planned that the network will be up and running by early 1997.

The ACZISC Database Directory Working Group held a meeting on 18 June. The Working Group subsequently participated via speaker phone in a meeting of the Access and Marketing Working Group of the Inter-Agency Committee on Geomatics (IACG), held in Ottawa. The two working groups will maintain communication to identify potential areas of collaboration.

A proposal for future development of the Database Directory (copy attached) has been developed and has been submitted for funding to the Oceans Science Program Fund, DFO Ottawa.

Following an agreement with CHS, NDI recently initiated the posting of the Database Directory on the Internet at no cost to the ACZISC. NDI has posted the Directory information in table format as this is the least time consuming method. However, after reviewing the work done to date by NDI, the Working Group feels that the table format is not user friendly; the Group is recommending that the posting be done using a report format (similar to Version 2 hard-copy).

The services of a programmer will be required to write a program to generate reports from the tables. As funds are not available, in-kind support is being sought.

Réjean Castonguay reported that Bernie Arsenault, NBGIC, had recently posted the NB property information on the WWW. He suggested that Claudette contact Bernie re ideas for posting the Directory.

***ACTION 18.7: Claudette LeBlanc to contact Bernie Arsenault, NBGIC, to discuss the posting procedures re the NB property information on the WWW.***

Jim Ramsay expressed his concern that the Directory be posted ASAP in a user-friendly manner as the Directory is a high profile and critical product of the ACZISC. He added that, if avenues currently being pursued for posting the Directory fell through, the ACZISC Secretariat should approach the MGC regarding the necessary support.

***ACTION 18.8: ACZISC Database Directory Working Group to ensure that the Atlantic Coastal Zone Database Directory is posted on the WWW in a user-friendly format ASAP.***

***ACTION 18.9: ACZISC Secretariat to write a letter to the Maritime Geomatics Committee, attention Jim Ramsay, requesting assistance for posting the Database Directory on the WWW, if required.***

Brian Nicholls enquired as to the status of the licensing agreement which was to be developed for the Database Directory by the Working Group. It was stated that the agreement had been put on hold as it is not required for Internet access which has been identified as the main method of distribution for the Directory.

**C-CODE:** The C-CODE (Consortium for Coastal and Ocean Data Exchange) Working Group is co-chaired by Andy Montgomery and Andy Sherin. C-CODE is the new name for CITAP (Coastal Information Technology Architecture Plan). Copies of the report of the CITAP Workshop held on 16 November 1995 in Fredericton were distributed.

Andy also distributed copies of the Data Accessibility and Data Pricing Workshop held on 22 March 1996 in Dartmouth. He reviewed the document stating that three presentations were missing and that these would be made available if provided by the Workshop presenters, i.e. Paul Bellemare/CHS, James Boxall/Dalhousie University, and Simeon Roberts/private sector. The federal Treasury Board guidelines for Cost Recovery and User Fees, which have become available since the Workshop, were added as an additional appendix.

Andy stated that the academic and private sector participants at the Data Accessibility Workshop had expressed concerns about the cost of data and restrictions on its use. However, they did recognize that fees are necessary to expand and maintain databases.

Norval Collins enquired if C-CODE was only concerned with access to mapping products. He added that there was an increasing need to make a broad range data and information available to community groups and suggested that C-CODE could address this issue. Andy responded that the goal of C-CODE is the exchange of coastal data and information in various formats between all interested individuals, groups and organizations.

Participants suggested that access and distribution policies be published as part of the Database Directory. Claudette stated that links could be made between the Directory and the policies if these were available and posted on WWW.

***ACTION 18.10: Secretariat to check if the policies for each ACZISC member jurisdiction re data access, pricing, distribution, etc. are posted on the WWW. If available on the WWW, Secretariat to "flag" these policies on the Database Directory homepage.***

Andy briefed participants on the presentation made by Phyllis Charlesworth, Head of Computer Technology, Geomatics Canada, on the developing Canadian Spatial Data Infrastructure (CSDI). Phyllis chairs an IACG committee responsible for the development of the CSDI. The presentation took place on 6 June at BIO. Andy suggested that C-CODE liaise with this committee. The CSDI is in line with C-CODE and the National Spatial Data Infrastructure (NSDI), the US initiative being implemented following an executive order from President Clinton. Andy distributed notes re a CSDI Workshop held in March (copy attached).

Mike Pearson commented that it was necessary for the Maritime Provinces to agree on common standards for spatial data if the region expects to participate fully in the developing CSDI. Andy stated that the region cannot wait until standards are in place and that it must work "around the problem" for the time being. He added that the IACG has encouraged provincial contributions to the federal process of developing the CSDI.

Andy stated that the C-CODE Working Group would be meeting with the ACZISC Secretariat to further develop the C-CODE Action Plan, including relationships between C-CODE and similar initiatives being undertaken at the national and international levels.

***ACTION 18.11: C-CODE Working Group and the Secretariat to organize a meeting by 31 August to further develop the C-CODE Action Plan.***

Copies of both Workshop reports are available from the ACZISC Secretariat.

**STANDARDS:** The Coastal Mapping Standards Working Group is co-chaired by Paul Bellemare and Réjean Castonguay. Réjean reported that the Working Group had not initiated any new activities since the Workshop held on 14-15 November in Fredericton. The Workshop had focused on Data Models.

Réjean questioned if Workshops were the most effective method of identifying and implementing standards in the region. This was discussed by the meeting participants and Réjean agreed to study the issue in order to identify the most effective processes.

***ACTION 18.12: Réjean Castonguay to investigate processes which could be effective in identifying and implementing coastal mapping standards within ACZISC jurisdictions, and to report his findings at the next ACZISC meeting.***

Réjean reported that staff of the NBGIC had recently met with Ed Light and Bert Seely from the NS Department of Housing and Municipal Affairs to discuss mapping standards. NB will be adopting standards for its coastal base mapping series currently being developed.

Réjean reported that the recommendations re datums endorsed by the Standards Workshop held in November had not been well received by the NB Coastal Zone Committee. Brad Fay commented that the first standards workshops had been conducted prior to the development of coastal base mapping series by NB and NS, which will facilitate the adoption and implementation of standards.

Réjean agreed that standards must be driven primarily by requirements. In NB this is being driven by the CZM policy under development and the resulting requirement for coastal zone mapping. NB has issued an RFP for recommendations re coastline requirements in the Province, including the costs of implementation.

Réjean suggested that it may be appropriate for the Standards Working Group to document all the coastal mapping standards being used in the region.

**COASTAL MAPPING:** The Coastal Mapping Working Group is co-chaired by Curt Speight, NS Geomatics Centre and Eric Theriault, Environment Canada. Eric reported on the Coastal Mapping Workshop held at Environment Canada in Dartmouth on 29 May. A Workshop report, being prepared by the ACZISC Secretariat, will be distributed mid-July.

The Workshop participants recommended a process to identify databases fundamental to coastal zone mapping. The participants also suggested that primary datasets be defined as the data resulting from the measurement and recording of a single parameter, e.g., sea surface temperature, currents, etc. In contrast secondary datasets, such as "habitat", would be composites of multiple parameters.

The Workshop also catalyzed many "behind the scene" deals among the participants. Bob Rutherford reported that as a result of the Workshop he was working with Curt Speight to develop applications for the coastal base map series under development in NS. A prototype showing coastal resource mapping information will be produced by the NS Geomatics Centre for the Arichat area. The Wildlife Division of the NS Department of Natural Resources is also participating. Bob added that a prototype may also be produced for the Annapolis area.

Réjean commented that the Workshop had been a great success. The presentations were relevant to the NB coastal mapping series under development and in particular the work being done by Kimberley Edwardson and Andy Sherin on the GSC's Coastal Information System (CIS). Kimberley will be invited to speak to the NB Coastal Zone Committee in the fall to brief the Committee on the CIS.

Eric stated that the Coastal Mapping Working Group would be getting together with the ACZISC Secretariat to identify the Working Group's future activities and direction. A potential activity could be the production of a coastal mapping manual.

***ACTION 18.13: Coastal Mapping Working Group and Secretariat to organize a meeting by 31 August to determine the future direction of the Working Group.***

**ICOIN:** Mike Butler reported that the ICOIN Working Group had not been active recently. He distributed a report on ICOIN activities prepared by Hank Jones, ICOIN Project Officer. ICOIN information can also be obtained on the Internet at <http://web.meds.dfo.ca>.

**ECNASAP:** Mike Butler, co-chair (with Joe Arbour and Andy Sherin) of the Canadian ECNASAP Project Management Committee, briefed participants on the Canada/U.S. East Coast of North America Strategic Assessment Project (ECNASAP). He commented that the ECNASAP project had proven to be very successful.

The Offshore Case Study has been incorporated into the DFO Cod Mortality Program. Several scientific papers are being written based on the study and presented throughout the world. Collaboration is ongoing between DFO and the National Marine Fisheries Service (NMFS) and to a diminishing extent with the Strategic Environmental Assessment Division of NOAA.

The focus of the Inshore Case Study led by Joe Arbour is shellfish. Joe has recently been appointed to the Board of Directors of the U.S. shellfish committee (ISSC).

An ECNASAP paper session and workshop will take place at Coastal Zone Canada '96 in Rimouski, 12-17 August, 1996.

**PASSAMAQUODDY/ICOIN:** Mike Butler reported on the Passamaquoddy/ICOIN project. He circulated a report prepared by Paul Currie, ADI, outlining the applications being developed for the project: Spill Response, Habitat Protection, and Sustainable Development. A copy of the report is attached.

Brian Nicholls added that, as described in the CHS meeting report, the Passamaquoddy/ICOIN project is on schedule. Dale Nicholson, CHS, is a member of the Technical Committee for the project.

**COMMUNICATIONS:** The ACZISC Communications Working Group is chaired by Mike Butler. He reported that the Secretariat was having difficulty emailing the minutes of ACZISC meetings and other information because of the various encoding methods and word-processing software in use by members. The UUencoding method suggested at a previous meeting has not been entirely successful in eliminating the problem. Andy Sherin commented that these problems often are a result of system administration and suggested that profiles for each of the members be produced to reduce the problem.

***ACTION 18.14: Secretariat to develop email profiles for each of the ACZISC members to determine word-processing capabilities and encoding requirements for documents sent as attachments.***

It was also suggested that the minutes be made widely available by posting them on the Internet in HTML format.

***ACTION 18.15: Secretariat to post ACZISC minutes on the WWW in HTML format.***

Réjean Castonguay suggested that the Action Items be numbered in the minutes.

***ACTION 18.16: Secretariat to number the Action Items in the minutes, e.g., 18.1.***

It was suggested by Brian Nicholls that the Action Items distributed immediately following the ACZISC meetings also be attached to the minutes of that meeting when these are distributed. The Actions Items would continue to be embedded in the text of the minutes.

***ACTION 18.17: When distributing the minutes of an ACZISC meeting, Secretariat to attach the previously distributed Action Items relevant to that meeting.***

## 5. ***ROUND TABLE REVIEW OF COASTAL ZONE ACTIVITIES***

### **NATURAL RESOURCES CANADA/GEOLOGICAL SURVEY OF CANADA - ATLANTIC:**

Andy Sherin circulated copies of a report (copy attached) briefly describing the Baie des Chaleurs Lobster Habitat Surveys scheduled for August and July and the new Aerial Video Surveys just completed of the coastline of the Bras d'Or Lakes and currently under way in Isles de la Madeleine. These projects are being carried out in partnership with other agencies.

Andy also circulated information (copy attached) on a handbook entitled *Quality in Geomatics - A Practical Guide to ISO 9000*. It was produced by the National Working Group for Excellence in Geomatics. The handbook is available by contacting Hélène Drouin, Geomatics Canada, tel 613-943-0523; fax 613-995-8737; email helene.drouin@geocan.emr.ca

Natural Resources Canada will be implementing a new pricing structure for its digital data this fall. Details will be available in the Coastal Mapping Workshop report to be distributed by the Secretariat in July.

Darius Bartlett, University of Cork, recently made a presentation at BIO on data models for the coastal zone. He also had discussions with Bob Rutherford and Eric Theriault. Andy circulated a paper written by Dr. Bartlett in 1993 entitled *Space, Time, Chaos and Coastal GIS*.

Andy distributed a list of WWW addresses relevant to ACZISC activities (copy attached), including instructions for subscribing to SEA-GIS, a list-service for discussions on coastal and oceanographic applications of GIS.

Andy displayed a poster produced by the GSC on the activity of beach particles. There are longer term plans to produce a manual on beach processes.

Kimberley Edwardson reported that the classification system for the Coastal Information System (CIS) had been completed. Currently 30 1:50,000 map sheets have been mapped in Atlantic Canada based on the system.

Meetings were held yesterday (27 June) at the PEI National Park with park officials and in Charlottetown with provincial personnel re initiating a CIS project in the PEI National Park. A draft project description was distributed (copy attached). The project would focus on the effects of sea-level rise over the next 50 years. A large amount of information is available. Kimberley

circulated documents re the CIS Legend and Glossary of Terms for review. These will be made available to the ACZISC members.

**CANADIAN HERITAGE/PARKS CANADA:** Paul Caines commented that officials of the PEI National Park are very interested in the study proposed by the GSC-Atlantic. He stated that the park infrastructure was located primarily in the dune area and that the study could identify the lead time necessary to plan the finances and logistics of relocating park infrastructure.

Parks Canada has a Science Board in Atlantic Canada which reviews projects; the Board is chaired by Neil Munro.

The PEI National Park is relatively small in area - 18 km<sup>2</sup>. An extensive database has been built for the Park over the last two years, derived from the 1981 biophysical inventory. It contains 1600 polygons and 350 attributes. The database will be used for modelling, planning and projections. The Park infrastructure data will be obtained from Public Works Canada and added to the biophysical data.

Linnell Edwards enquired if farming in the area was impacting on the ecology of the Park. Paul responded that this was being monitored and that to date no significant impacts had been identified.

**FISHERIES AND OCEANS CANADA:** Brian Nicholls circulated a report prepared by CHS (copy attached). The report outlines CHS activities re the Electronic Navigational Chart (ENC), field surveys, the Passamaquoddy/ICOIN project, new charts and new editions of charts, the Canadian Hydrographic Conference '96, and cooperative mapping projects. The report also includes maps indicating the status of small scale ENCs in Atlantic Canada and large scale ENCs in the Maritime Provinces and in Newfoundland.

A project is being carried out with funds acquired through the Brander Smith study on Tanker Safety. Sensitivity data is being collected in ports where oil shipping occurs: Halifax, Saint John and Port Hawkesbury. The data is being provided to Bob Rutherford for the Coastal Resource Mapping Projects and to Eric Theriault for the Atlantic Region Sensitivity Mapping Program.

Brian commented that DFO may have increased responsibility for CZM when the Canada Oceans Act becomes law. He has initiated a literature review of CZM practices worldwide involving 25 countries. The report is being prepared by Evelyne Meltzer and will include an analysis re application of the practices to the east coast and west coast of Canada. It is anticipated that the bibliography will be available within four weeks and the analysis within 3 months. They will be made available to ACZISC members.

***ACTION 18.18: Brian Nicholls to provide, when available, copies of a literature review of coastal zone management practices worldwide and an analysis of their application to Canada.***

Bob Rutherford reported that DFO's 3-year Coastal Resource Mapping Project would be completed in March 1997. TEK information is being collected and mapped. He distributed a map indicating the status of the study areas in the Scotia-Fundy Region (copy attached). Currently Inverness and the Bras d'Or Lakes are under way and Lunenburg is nearing completion. The work is being done in partnership with community groups.

Bob stated that information is being mapped to respond to scientific, community and socio-economic requirements. Efforts are being made to avoid duplicate information collection. Because coastal base maps are not currently available, the mapping is being done on 1:10,000 base maps and hydrographic charts at various scales. This can be cumbersome.

Similar mapping is being done in the Gulf of St. Lawrence Region under the direction of John Legault. The mapping for the Gulf Region Project extends further out to sea than the Scotia-Fundy Region Project. The entire Gulf area is being mapped. The west coast of Cape Breton and Pictou have been completed. Studies are currently under way on the east coast of NB and in PEI.

Andy Sherin commented that the Gulf Region mapping in northern NB would be very helpful to the Baie des Chaleurs Lobster Habitat Surveys.

Mike Butler commented that Bob Rutherford was sitting in for Chris Morry, Oceans Programs, Habitat Management and Environmental Science, DFO Ottawa. The head of the Unit is Camille Margeau. The ACZISC is trying to establish direct links with the Unit.

**DUNE EVOLUTION STUDY:** Brigitte Dagneau, a PhD student from Université Laval, briefed participants on a stratigraphic study being carried out on the evolution of sand dunes. Monitoring systems have been set up in Kouchibouguac Park and in the PEI National Park. Nearshore coring will be done by the GSC-Atlantic. The field work is being carried out over a 3-4 year period and 60 years of aerial photography will be studied.

Paul Caines reported that sand dune profiles carried out in 1971 have been located and will be made available to Brigitte.

**NOVA SCOTIA:** Brad Fay reported on the NS coastal base map series being developed by the NS Geomatics Centre in Amherst. The base maps will be produced by integrating the NS 1:10,000 topographic database and CHS charts. A prototype coastal base map is currently being reviewed by users.

NS is promoting a corporate approach to distributing geographic information. Land information in NS will be made available through GeoNova.

New appointments have been made in several NS provincial departments. These include Jim Smith, Minister and Patricia Ripley, Deputy Minister, Housing and Municipal Affairs; Peter Underwood, Deputy Minister, Environment; Alan Steele, Deputy Minister, Fisheries; and Sandy Jolly, Minister, Business and Consumer Services.

The future status of the NS Land Use Committee is being reviewed by Priorities and Planning.

NS will be releasing its CZ 2000 shortly. The document will emphasize collaborative approaches to CZM and will have a strong focus on communities and mapping.

The annual meeting of the Canadian Council on Geomatics (CCOG) will be held in Halifax from 1-4 October. The topic of the meeting will be vertical integration of spatial data. The CCOG has representation from both the federal and provincial levels.

**PRINCE EDWARD ISLAND:** Jim Ramsay reported that PEI was taking an approach similar to NS' re the distribution of geographic data.

The Province has built a provincial database which contains all property lines with graphics linked to assessment. The goal for 1996/97 is to deliver this information to clients. Internet will be used as the main delivery mechanism.

Efforts will now be focused on the water side of the Province and the merging of land and chart data will be explored. Existing harbour information will be reviewed. Currently there is an agreement with federal departments re aquaculture leases, chart data, harbour information and national park information.

It is anticipated that by January 1997 there will be operational DGPS coverage of the Province. PEI will be the first province in Canada to achieve this. The system will be capable of transmitting real-time corrections and will be tied to the High Precision Network (HPN) Canadian grid. The Province has offered to tie monuments installed by the private sector into the provincial grid.

Participants asked for more information on the status of the DGPS network in Atlantic Canada. It was suggested that Paul Bellemare brief members at the next meeting.

***ACTION 18.19: Paul Bellemare to brief members on the status of the DGPS network in Atlantic Canada at the next ACZISC meeting.***

**NEW BRUNSWICK:** Réjean Castonguay reported that the NBGIC had been merged with Service NB. The total number of staff is 150. The newly appointed Deputy Minister responsible for the combined agency is Mavis Hurley. To date Service NB has been responsible for the sale of licences such as driving, hunting, fishing, etc. The implications of combining the NBGIC with Service NB have yet to be determined.

The NB Coastal Zone Policy, currently under development, has two components: the land use policy headed by the NB Department Municipalities, Culture and Housing and the sea use policy headed by the NB Department of Fisheries and Aquaculture.

Réjean reported on the status of the NB Coastal Base Mapping program. The contract for aerial photography has been awarded to Airborne Sensing Corp., Toronto. The photography will be flown at 1:35,000. The orthophoto-based map files will be produced at 1:10,000. Three products will be available and CD will be one option for distributing the files.

Réjean stated that the Province would be reviewing the information requirements for coastal zone management. Other NB land information, e.g., agriculture, could be packaged and made available on CD.

Jim Ramsay enquired re the possibility of extending the coverage of the NB aerial photography contract into PEI. Réjean responded that it was possible to do so and suggested that Jim contact him.

**ENVIRONMENT CANADA:** Larry Hildebrand reported that ACAP would be coming to a formal end on 31 March 1997. Discussions have been taking place on the value of the ACAP approach. EC will continue to work with the 13 existing sites and to extend the approach to

other sites. Other departments will be included in collaboration with communities. An ACAP Web site is being established on the EC system.

Larry reported on the Global Plan of Action (GPA) for Protection of the Marine Environment from Land-based Activities. One hundred and ten countries, including Canada, have agreed to develop national plans. A discussion document has just been released on Canada's National Program of Action. The document is available from John Karau, EC Ottawa.

A GPA workshop will be held this fall to further develop Canada's plan. Also GPA applications will be developed at the regional level. The Gulf of Maine Council on the Marine Environment will be a case study. Council activities, including work done on point sources of pollution, will be reviewed. David VanderZwaag, Dalhousie University, will also be reviewing the legal implications.

Larry stated that the Organization for Economic Development (OECD) would be meeting in Paris on 8 July 1996. A report on CZM was produced by the OECD for the period 1989-1992. A follow-up report has been prepared which includes a section on progress re implementing CZM throughout the world. Canada had input into the report and the ACZISC is referenced.

***ACTION 18.20: Larry Hildebrand to provide the Secretariat with a copy of the report which will be tabled at the OECD meeting in Paris.***

**AGRICULTURE AND AGRI-FOOD CANADA:** Linnell Edwards reported that Agriculture and Agri-Food Canada had been collaborating with colleagues from the Province of PEI, Statistics Canada and Germany on a soil erosion study. Other federal departments and the Technical University of NS are also involved. The study participants are developing a GIS-aided predictive system for soil erosion. Linnell thanked Jim Ramsay for providing the base mapping for the Wilmot watershed which is an ideal agro-marine study area.

Linnell stated that a lack of funds was hampering the study. Resources are not available to analyze the data which has been collected or to collect additional data. Some funding has been obtained from NSERC but a proposal submitted to EC's EMAN has not been approved.

Larry Hildebrand reported that the federal Working Group on Integrated Coastal Zone Management would be reviewing CZM projects of interest to the four members (Agri Can, DFO, EC and NRCan). Funding support may be available via this Working Group.

***ACTION 18.21: Linnell Edwards to submit a proposal to the federal Working Group on Integrated Coastal Zone Management to develop a GIS-based model for soil erosion and its impact on the agro-marine ecosystem of Bedeque Bay, PEI ASAP.***

Agriculture and Agri-Food Canada carries out soil erosion monitoring throughout the year; winter erosion is a big problem.

Linnell added that agriculture on PEI would be the subject of two television programs this week, The World This Week-end and Québec AM.

**GIAC ATLANTIC/GANS:** Mike Pearson distributed a summary of GANS activities (copy attached). A memo was written to GANS and GIAC requesting their active support of the Canada Oceans Act. Mike added that the private sector was pleased to see the coastal base mapping initiatives being undertaken by NB and NS. He added, however, that it would have been preferable if the two series were based on the same specifications.

## 6. **UPDATES**

### **ATLANTIC ACCORD ON THE INTEGRATED MANAGEMENT OF THE COASTAL ZONE:**

Mike Butler reported that the Accord had been an initiative of the Oceans Institute of Canada with input from the ACZISC. The Accord has been temporarily "shelved" until the individual Atlantic Provinces have clarified their coastal policies.

**COASTAL ZONE CANADA '94 AND COASTAL ZONE CANADA '96:** Mike Butler distributed copies of the Program for CZC'96 scheduled for 12-17 August in Rimouski and the recently published CZC'94 Action Plan.

Larry Hildebrand reported that the CZC Association had been formed in 1994 and that there was a need for broader input into the Association. A meeting of the Association will be held in Rimouski during CZC'96. He suggested that the ACZISC consider the role that it could play in the Association.

A round table re furthering CZM in Canada is also scheduled during CZC'96. The round table will consider how a CZM program should be structured in Canada at the federal, provincial and local levels. Discussions will be ongoing re this issue.

CZC'98 will take place in Victoria, BC. Larry will be going to Victoria in the fall to attend a meeting of the organizing committee. The Conference will have a community focus. The CZC Association also has received a letter of offer to hold CZC 2000 in Saint John, NB.

**ECONOMIC STUDY:** Mike Butler distributed copies of a proposal for a research project on the Impact of Atlantic Canada's Coastal Zone Activities on the Economy of the Region and its Provinces. The proposal has been submitted to the Oceans Institute of Canada by Maurice Mandale, Economic Research and Analysis (formerly with APEC). To date funding support has been provided by Environment Canada and the NS Land Use Committee. The NS Economic Renewal Agency, DFO Ottawa and ACOA are currently considering a request for funds. The ACZISC has been asked for input. The study is complementary to a proposed DFO study re marine technology companies and a study by Donald Savoie, Université de Moncton, which advocates a form of triage re the survival of coastal communities.

**GULF OF MAINE COUNCIL ON THE MARINE ENVIRONMENT:** Mike Butler reported that the ACZISC had strong ties with the Council via the participation of the ACZISC Secretariat and members on the Council Working Group and the Data and Information Management Committee (DIMC). Working Group members include Larry Hildebrand, Art Longard, Brian Nicholls and Mike Butler and DIMC members include Brad Fay and Claudette LeBlanc. Brad is also a DIMC co-chair. Mike added that the Canadian component of the Gulf of Maine Directory of Datasets is contributed from the ACZISC Database Directory.

Larry Hildebrand reported that the Council had been reviewing its 10 year Action Plan. A new 5 year plan has been produced which focuses on habitat and community participation. He suggested that it would be appropriate for the ACZISC to review the plan.

***ACTION 18.22: Secretariat to review the 5-year Action Plan for the Gulf of Maine (GoM) Marine Environment Program in the context of the ACZISC Workplan.***

Brian Nicholls reported that he was involved in a mapping project with the Gulf of Maine Marine Environment Program. Traditional ecological knowledge (TEK) information on cod and haddock spawning areas, past and present, is being compiled. The information is being collected from fishermen by students in Southwest NS and in the Grand Manan/Deer Island region of NB. Questionnaires and enlargements of charts are being used to survey the fishermen. The initial information being collected is proving to be of great interest to the scientists and could be made available to the ECNASAP study and DFO's coastal mapping initiatives. The study will be ongoing for two more years.

Norval Collins reported that he had attended the Gulf of Maine Bridging the Gulf Conference in Portland, Maine from 30 May-1 June. The Conference acknowledged that up to now information systems have tended to be "top down" but that there is also a need for the "bottom up" approach. The Conference recommended the establishment of Web pages for community groups. Norval commented that a "fresh new look" was needed re information distribution. He added that community groups are wanting to exchange information and that more information should be made available to them.

7. ***ANNOUNCEMENTS AND PUBLICATIONS***

Mike Butler circulated documents for review, including Gulf of Maine Highlights, Fundy Issues - Information Update and Workshop Synthesis (1996), and The Further Assessment of the Recovery of the Irving Whale in Light of the Presence of PCBs (1996).

8. ***OTHER BUSINESS***

No new business was discussed.

9. ***NEXT MEETING AND ADJOURNMENT***

**ACZISC Meeting #19 was provisionally scheduled for Monday, 7 October 1996 in Fredericton, New Brunswick, to coincide with the Geomatics Atlantic Conference scheduled for 8-9 October.**

ACZISC Meeting #18 adjourned at 16:00 hrs.