

MINUTES OF ACZISC MEETING #20

Atlantic Coastal Zone Information Steering Committee

Date: Tuesday, 4 February 1997 - 0830 hrs.

Location: Main Auditorium
Bedford Institute of Oceanography
Dartmouth, Nova Scotia

NAME	AFFILIATION	TEL. NO.
Present: * indicates ACZISC member		
Don Amos*	Public Works and Government Services Canada	(902) 496-5009
Tim Anderson	Fisheries and Oceans Canada (also representing Newfoundland*)	(709) 772-2852
Alain Bourgeois	Pêches et Océans	(418) 648-7676
Ross Burke	MacNeill and Associates	(902) 485-8531
Michael Butler*, Chair	Oceans Institute of Canada	(902) 494-1977
Connie Carruthers*	Industry Canada	(902) 426-9905
Réjean Castonguay*	Province of New Brunswick	(506) 453-3917
Ray Cranston	Geological Survey of Canada - Atlantic	(902) 426-2582
Kimberley Edwardson	Geological Survey of Canada - Atlantic	(902) 426-2582
Brad Fay*	Province of Nova Scotia	(902) 424-4966
Jennifer Hackett	Fisheries and Oceans Canada	(902) 426-4274
Larry Hildebrand*	Environment Canada	(902) 426-9632
Irwin Judson	NS Department of Fisheries	(902) 424-4560
Claudette LeBlanc	Oceans Institute of Canada	(902) 494-1977
John Legault	Fisheries and Oceans Canada	(506) 851-6221
Art Longard*	Province of Nova Scotia	(902) 424-4560
Terry Kennedy	MacNeill and Associates	(902) 485-8531
Graham MacKay	MacNeill and Associates	(902) 485-8531
Colin MacNeill	MacNeill and Associates	(902) 485-8531
Lee MacNeill	MacNeill and Associates	(902) 667-3616
Francine Mercier*	Canadian Heritage	(819) 997-4916
Brian Nicholls*	Fisheries and Oceans Canada	(902) 426-3246
Dale Nicholson	Canadian Hydrographic Service	(902) 426-4581
Simeon Roberts	representing GIAC and GANS*	(506) 457-9627
Andy Sherin*	Natural Resources Canada	(902) 426-7582
Curt Speight	NS Geomatics Centre	(902) 667-7231
Eric Theriault*	Environment Canada	(902) 426-9558

1. **WELCOME AND INTRODUCTION OF PARTICIPANTS**

Mike Butler, ACZISC Chair, called Meeting #20 to order at 08:30 hrs. He welcomed guests and thanked Dale Nicholson and Andy Sherin for making arrangements for the meeting room, including the computer and Internet connection, and the Canadian Hydrographic Service and the Geological Survey of Canada for providing lunch. A roundtable introduction of all participants followed.

2. **ADOPTION OF AGENDA, AND REVIEW AND APPROVAL OF MINUTES FOR MEETING #19**

The provisional Agenda for Meeting #20 was reviewed and approved (copy attached).

The minutes of ACZISC Meeting #19 were reviewed and the following revisions were made:

Page 10: **FISHERIES AND OCEANS CANADA:** first paragraph... "Dale Nicholson reported that the chart for the Saint John River has been completed using data processed by NDI. Charting efforts will now be focused on St. John's." *should read* "**Dale Nicholson reported that the chart for the Saint John River has been completed.**"

Page 12: **NATURAL RESOURCES CANADA/GEOLOGICAL SURVEY OF CANADA:** second paragraph... "- two posters prepared for Georges Bay using an acoustic image of the bottom. There is renewed interest in Georges Bay because of the possibility that the moratorium on oil and gas exploration may not be renewed when it expires on 1 January 2000." *should read* "- two posters prepared for Georges **Bank** using an acoustic image of the bottom. There is renewed interest in Georges **Bank** because of the possibility that the moratorium on oil and gas exploration may not be renewed when it expires on 1 January 2000."

Page 16: **CANADA OCEANS ACT:** "Art Longard requested that an update on the proposed Canada Oceans Act be provided at the next ACZISC meeting." *should read* "Art Longard requested that an update on the proposed Canada Oceans **Management Strategy** be provided at the next ACZISC meeting."

The minutes were approved with the above revisions. The revised minutes will be available from the ACZISC website at <http://is.dal.ca/aczisc/aczisc> in WP5.1 format.

3. **STATUS OF ACTION ITEMS**

The status of the Action Items from Meeting #19 were reviewed. All Action Items were carried out other than the following:

ACTION 19.3: *ACZISC Secretariat to widely distribute ASAP a notice re the availability of the Directory at <http://www.ndi.nf.ca/ndi/aczisc/index.html>*

STATUS: The notice and the mailing list are now completed and will be distributed mid-February.

ACTION 19.5: *ACZISC members to notify Claudette LeBlanc ASAP of the URL for their jurisdiction's policies re data access, pricing, distribution, etc.*

STATUS: This has not been done; Claudette LeBlanc to follow up.

ACTION 19.12: Paul Bellemare to provide the Secretariat by 31 October with copies of a map indicating the status of DGPS coverage in Atlantic Canada.

STATUS: This has not been done; Dale Nicholson to follow up.

4. ***ACZISC WORKPLAN***

MEMBERSHIP: Mike Butler reported on the status of ACZISC membership:

Province of Québec: Alain Bourgeois and Mike Butler reported that they had been in contact with the Ministère de l'Environnement et de la Faune (Environment and Wildlife) re participation by the Province of Québec on the ACZISC. The Department has indicated that it will not be participating due to budget restraints. Alain will be pursuing the matter of Québec's participation with the Ministère de l'Agriculture, des Pêcheries et de l'Alimentation (Agriculture, Fisheries and Food).

Agriculture and Agri-Food Canada: The Department has expressed interest in participating on the ACZISC. This will be pursued further in light of the ACZISC submission for funds to the federal Working Group on Integrated Coastal Zone Management. The jurisdictions represented on the Working Group are Agriculture and Agri-Food Canada, Environment Canada (EC), Fisheries and Oceans Canada (DFO) and Natural Resources Canada (NRCan).

Newfoundland: Newfoundland's participation on the ACZISC will be discussed with Leslie Grattan, the newly-appointed Deputy Minister of the Newfoundland Department of Environment. Mike added that Ms. Grattan was formerly with the Hibernia Management and Development Co. Ltd. and that she is a member of the Board of Directors of the Oceans Institute of Canada (OIC). Art Longard reported that he would be visiting Leslie Dean, Deputy Minister of Fisheries and Aquaculture in Newfoundland. He will discuss Newfoundland representation on the ACZISC with Mr. Dean.

GIAC Atlantic/GANS: Andy Power has resigned as the representative of Geomatics Industry Association of Canada-Atlantic/Geomatics Association of Nova Scotia due to work commitments. A replacement will be named. Simeon Roberts, the President of GANS, stated that GANS was fully supportive of the ACZISC and would be continuing its involvement with the Committee.

Fisheries and Oceans Canada/Laurentian Region: Alain Bourgeois reported that Yvan Vigneault had retired as Manager of the Fish Habitat Management Branch and that his successor, Gordon Walsh, would be re-evaluating the Region's participation on the ACZISC. Alain was optimistic about the results.

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

BUDGET/FUNDING/SUPPORT AND WORKPLAN: Mike Butler commented that funding support for the ACZISC had been a concern of the Executive Committee and the subject of many of their discussions. Continued financial support by the Council of Maritime Premiers (CMP), currently \$50K per year, is dependent on obtaining matching federal funding. The ACZISC has applied to the federal Working Group on Integrated Coastal Zone Management for \$50K. Strong support for the ACZISC in the form of letters to the Working Group was provided by the CMP and the private sector through GIAC Atlantic and GANS. Copies of the letters were circulated for review.

The DFO reps on the ACZISC and Mike Butler met with John Loch, Regional Director, Science/DFO on 10 January to discuss federal funding for the ACZISC. Mr. Loch indicated DFO's support for the ACZISC and has since been very active in trying to identify funds. Brian Nicholls added that, as a

result of Mr. Loch's intervention, Gerry Swanson, chair of the federal Working Group on Integrated Coastal Zone Management, had committed 25% of the funds - \$12.5K - on behalf of DFO if the other Working Group members would fund the balance.

Larry Hildebrand stated that EC Ottawa and the Atlantic Region of EC would be contributing a total of \$12.5k.

Andy Sherin added that NRCan would also be making a contribution but that it would be less than 25%. He stated that Dick Pickrill, Geological Survey of Canada, is a member of a sub-committee of the federal Working Group on Integrated Coastal Zone Management. Dick has suggested that there be a thorough review of the ACZISC to identify a plan for its long-term survival. Andy commented that 90% of coastal zone data was held by the federal and provincial governments and that it was therefore logical that the ACZISC be funded by government.

DATABASE DIRECTORY: Claudette LeBlanc, chair of the Database Directory Working Group, presented usage statistics for the Atlantic Coastal Zone Database Directory on the WWW. She stated that in the four month period - 1 October 1996 to 31 January 1997 - after the availability of the Directory on the WWW was publicized, 570 searches were carried out on the Directory. She also reported on searches by owner and keyword. Connie Carruthers commented that the usage statistics for the Directory should be considered to be very good.

In regards to publicity for the Directory on the WWW, a flyer was included in the registration package of Geomatics Atlantic last October. Also the Directory has been registered with several of the search engines on the WWW. As actioned at ACZISC Meeting #19, a notice re the availability of the Directory will be distributed widely. An email mailing list containing approximately 3,000 addresses, primarily from Eastern North America, has been developed. Claudette added that it was also important that ACZISC members publicize the Directory's availability within their jurisdiction. John Legault suggested that departmental newsletters were one avenue of communication.

ACTION 20.1: ACZISC members to publicize the availability of the Database Directory on the WWW within their jurisdiction ASAP.

Members were asked to enquire about the availability of their jurisdiction's policies re data access, pricing, distribution, etc. on the WWW and to notify Claudette of the URL. Links to these URLs will be provided in the ACZISC Homepage.

John Legault enquired as to the relationship between the ACZISC Directory and CEONet. Andy Sherin and Claudette explained that they had met with Bob O'Neill, Canada Centre for Remote Sensing, on 21 January at BIO to discuss possible collaboration between CEONet and ACZISC projects. CEONet is an initiative of the Canada Centre for Remote Sensing (CCRS), NRCan, to create a national infrastructure for providing electronic access to earth observation data and other geo-referenced data. CEONet will include a Data Handling System (CDHS). Because the US FGDC standard for metadata is a better tool to provide international inter-connectibility, CCRS is proposing that the FGDC standard be used for the CDHS and not the recently adopted Canadian CGSB metadata standard upon which the ACZISC Directory is based. Both Claudette and Andy expressed their concern re this change in standard to Bob O'Neill and enquired re CEONet support to convert the ACZISC Directory to the FDGC standard if considered feasible by the ACZISC. Mr. O'Neill indicated that CEONet funding would not be available for the conversion.

The Canadian Standard for Directory Information was developed by the Inter-Agency Committee on Geomatics (IACG) and the CGSB Committee on Geomatics; the standard was adopted by the

ACZISC at great expense based on its apparent acceptance as the Canadian standard and the ACZISC wish to support such national initiatives. ACZISC members expressed their concern with NRCan's unilateral action and questioned the effectiveness of the mechanism for implementing standards at the national level.

ACTION 20.2: *ACZISC Secretariat to write a letter ASAP to the IACG and the CGSB re the lack of support for the recently adopted Canadian Standard for Directory Information and the lack of an effective mechanism for developing and implementing standards.*

ACTION 20.3: *Provincial ACZISC members to write a letter ASAP to their province's representative on the CCOG re the lack of an effective mechanism for developing and implementing standards.*

C-CODE: Andy Sherin, co-chair of the C-CODE (Consortium for Coastal and Ocean Data Exchange) Working Group, reported on C-CODE activities. He indicated that efforts were being made to identify a provincial co-chair for C-CODE.

A CEONet Requirements Workshop was held at BIO on 22 January. CEONet will be based on the shopping mall model - data providers would advertise their products and buyers could buy online. CEONet will include a metadata component. CEONet is funded (\$20 million) through the Canadian Space Program. Coopers & Lybrand has been contracted to develop a CEONet stakeholders model and MacDonald, Dettwiler and Associates (MDA) has been contracted to develop the baseline version of the CEONet infrastructure. Version V0 will be made available to the public as a functional test version at the of March 1997.

The relationship of Mercator, funded by CANARIE (Canadian Network for the Advancement of Research, Industry and Education) and CEONet was queried. Claudette reported NDI had recently received a contract from NRCan to identify the similarities and differences between the two initiatives.

Andy reported on the Action Item to organize a C-CODE awareness workshop to identify and provide an overview of the major data integration programs currently under way in Canada and internationally. A proposal to carry out an Internet-based conference has been circulated to ACZISC members and other potential participants; using Internet will allow wide participation and eliminate travel costs. A speakers list which includes several prominent Canadian and US speakers has been prepared and a letter of invitation has been drafted. The speakers' presentations will be posted on WWW sites and an Internet List Service will be established for wide-open discussion. Participants will include personnel representing the Canadian Geospatial Data Infrastructure (CGDI), the US National Spatial Data Infrastructure (NSDI) and others. It is intended that plans for the Internet-based C-CODE Conference will be finalized in March.

ACTION 20.4: *C-CODE Working Group to organize an Internet-based awareness conference prior to next ACZISC meeting.*

Developments re the US NSDI are being monitored. A recent strategy meeting of stakeholders has produced a new strategic plan. A critical aspect of the plan is a strategy to move from the federal directive to an approach based on a partnership of federal, state and municipal governments with some private sector participation, especially utilities.

ACTION 20.5: *Andy Sherin to provide a copy of the strategic plan for the US NSDI to the ACZISC Secretariat by 28 Feb 97 for distribution.*

The IACG is being reorganized. Its future role has not been determined; it may become a steering committee at the senior level oriented towards policy. Also the future role of the provinces in the IACG has yet to be determined. The newly appointed chair is Mark Corey, Director General, Mapping and Services, Geomatics Canada, NRCan. The CCOG is also participating in the development of the CGDI. Bob O'Neill, CCRS, gave Andy a copy of his presentation to the CCOG in Halifax late last year and a report prepared on the CGDI for the CCOG by Geoplan (Dave Coleman and John McLaughlin). A CCOG agreement re federal/provincial collaboration has been endorsed for the production of the road network database for Canada, a first step in the implementation of the CGDI.

Questions re the development of a CGDI must be answered: What is the national commitment to CGDI? What is the role of the provinces? How does Mercator and other national initiatives fit? How can collaboration be assured?

Another C-CODE initiative, in conjunction with the Coastal Mapping Working Group, will be to monitor and carry out a systematic review of selected coastal mapping projects over the next two years during their development and implementation phases. A draft questionnaire will be circulated for feedback.

STANDARDS: The Coastal Mapping Standards Working Group is co-chaired by Paul Bellemare and Réjean Castonguay. Réjean commented that the ACZISC Working Group had encountered difficulties in coordinating the identification and implementation of standards, primarily because the ACZISC role has not been identified. He stated that it was important for the ACZISC to firstly document standard activities at the provincial, federal and international levels. Following that process, the ACZISC role can and must be clearly identified. Réjean will be contacting Paul Bellemare to discuss the possibility of holding a meeting in Halifax to identify current standards initiatives.

ACTION 20.6: *Réjean Castonguay and Paul Bellemare, Standards Working Group, to organize an "awareness meeting" prior to next ACZISC meeting to identify the standards-related programs and activities being carried out by various groups and committees in Canada.*

ACTION 20.7: *Standards Working Group to identify the role of the ACZISC in implementing standards.*

COASTAL MAPPING: The Coastal Mapping Working Group is co-chaired by Curt Speight, NSGC and Eric Theriault, EC. Eric reported that a Coastal Mapping Workshop had been held last May. A Workshop report was produced and is available from the ACZISC Secretariat.

Eric commented that the Coastal Mapping and C-CODE working groups would be collaborating to document the development and implementation of two coastal mapping projects: the NS Coastal Mapping Series under development at the NSGC and an update of the FMG Project proposed by Alan McIver, EC with PERD funds. Brian Nicholls enquired re the status of the proposed FMG update. Participants were unaware of its status.

ACTION 20.8: *Eric Theriault to enquire re the status of the proposed FMG update and report at the next ACZISC meeting.*

Curt circulated a prototype of the NS coastal base map series developed by the NSGC. The sources of data are the provincial 1:10 000 series, CHS and NDI. A Call for Tenders was issued for the

production of 5 map sheets in the Annapolis region, to be completed by 31 March; GEONet of PEI will be involved with the production. It is anticipated that coastal base maps will be produced for Pictou, Antigonish and Guysborough next year.

The NSGC is mandated to generate revenue for the provincial map fund which is used by NS to contract the production and update of mapping products to the private sector. Revenue is generated by various means, including selling map products at the provincial Land Information Centres located throughout the Province. Another source of revenue for the map fund will be value-added products which use the coastal base maps as a foundation. Prototype value-added products are currently being developed by the NSGC including a map showing land grants, produced in partnership with the NS Department of Natural Resources, Crown Lands Branch, and a map indicating aquaculture sites and fish plants, produced with the NS Department of Fisheries. The coastal mapping projects under way in NS are another potential source of information. The Province is interested in royalty agreements with information providers for value-added products.

Curt invited data providers to contact him if they are interested in their data being incorporated into the coastal map series. Documentation on the NS Coastal Series is attached.

Eric and Curt requested a meeting of the Coastal Mapping Working Group and the Secretariat to discuss future directions for the Working Group.

ACTION 20.9: ACZISC Secretariat to organize a meeting with the Coastal Mapping Working Group by 31 Mar 97 to develop a plan of action for the Group.

ICOIN: Mike Butler commented that the mandate and status of the ICOIN Project Office located at MEDS in Ottawa was unclear at this time. He will contact Hank Jones, ICOIN Project Officer, and report to the members at the next ACZISC meeting.

ECNASAP: Mike Butler briefed participants on the Canada/U.S. East Coast of North America Strategic Assessment Project (ECNASAP). The Project has two focus areas: the Inshore Case Study and the Offshore Case Study.

The Inshore Case Study on shellfish is lead by Joe Arbour, EC. The Shellfish Registry will be completed in the near future; the final report of the St. Andrews Workshop held in March 1995 has been published. Efforts are now being made to integrate some of the activities of the ECNASAP Inshore Case Study with the projects of the Gulf of Maine Council on the Marine Environment.

Joe is also looking into the possibility of carrying out an ECNASAP related project in the Southern Gulf of St. Lawrence. Participants could include the Provinces of New Brunswick, Nova Scotia, Québec and Prince Edward Island, EC, DFO (both the Maritimes and Laurentian Region), etc. Participation by the ACZISC is anticipated.

The Offshore Case Study is lead by Bob O'Boyle, DFO. Several reports have been prepared for the Case Study; copies were circulated for review. Innovative research, institutional collaboration and other activities are now being carried out as a result of the Offshore Case Study.

PASSAMAQUODDY: Dale Nicholson chairs the technical committee overseeing the Passamaquoddy/ICOIN project; a meeting of the technical committee is scheduled for tomorrow, 5 February. DFO has been the scientific authority for the project since November 1992. Dale stated that the project team had recently made two presentations to the technical committee. The three main project applications - Spill Response, Habitat Protection, and Sustainable Development - are

scheduled for delivery at the end of March 1997. The project team is now dealing with training issues, the need to identify beta test sites and the associated problem of copyright. It is intended that 10 beta sites will be identified for testing.

International interest has been expressed in the project. Presentations have been made to the Gulf of Maine Council on the Marine Environment last December, in Chile and at the Technical and Business Workshop on Environmental Management in Trinidad, 20-24 January 1997.

Eric Theriault added that he had meetings with the Passamaquoddy project team. He will be providing a version of the EC shoreline segmentation database to the NB Department of the Environment. The database will be incorporated into the Spill Response component of the project developed for the Department of Environment. In addition, EC is scoping out potential partnerships with the Passamaquoddy/ICOIN project team re international marketing. Simeon Roberts stated that the Trinidad workshop had provided an excellent beginning for collaboration in marketing the ICOIN applications internationally. Simeon represented the Champlain Institute at the workshop and Roger Percy, EC, was also in attendance.

COMMUNICATIONS: The ACZISC Communications Working Group is chaired by Mike Butler. He reported that incremental efforts were being made to facilitate communication. Also renewed efforts will be directed towards raising awareness of ACZISC activities by making presentations at conferences, committee meetings, etc. Newsletters are being prepared for insertion into conference registration packages, e.g., Geomatics Atlantic, Fredericton, 8-9 October 1996.

The exchange of minutes with relevant organizations, e.g., IACG, RARGOM, has been another method of communicating although the effectiveness of this technique is doubtful. He added, however, that the private sector associations - GIAC and GANS - have been very efficient at distributing ACZISC information.

The ACZISC Homepage is rapidly becoming the primary method of communicating information regarding ACZISC activities. The minutes of ACZISC meetings are posted and are downloadable in WP5.1 format. Réjean added that PDF was becoming a popular format for posting documents on the Internet.

ACTION 20.10: Réjean Castonguay to provide the ACZISC Secretariat information on the PDF format.

Links are added in the ACZISC Homepage on a regular basis. However, this is done on an ad hoc basis. An ACZISC policy should be considered re this activity.

ACTION 20.11: Communications Working Group to formulate a policy for providing links to URLs of general interest on the ACZISC and Database Directory homepages.

Andy Sherin stated that it was important for the Communications Working Group to identify and define target audiences.

ACTION 20.12: Communications Working Group to identify target audience for ACZISC information and to devise a plan by 31 Mar 97 for communicating with this group.

Connie Carruthers questioned whether there was a need for an ACZISC Industrial Development Working Group. This was discussed but it was concluded that this activity was well covered by existing bodies such as the Champlain Institute, GIAC, GANS, etc. and that it was important not to duplicate these efforts. However, the need for effective ACZISC communication with these organizations was emphasized.

Brian Nicholls commented that it was important for the ACZISC to think about the role that it could play vis-à-vis the Canada Oceans Act. The scope of the ACZISC must be re-evaluated but at the same time remain focused. There is a need for a position paper outlining a strategy re the future role of the ACZISC, its funding, mandate and terms of reference. It was suggested that a meeting be organized ASAP to develop the strategy. Andy Sherin added that the meetings should also address the need to move the strategy paper to higher levels of authority for discussion.

ACTION 20.13: ACZISC Secretariat to organize a meeting ASAP to review the ACZISC mandate, terms of reference and future role of the Committee, and to develop a strategy for long-term funding.

ACTION 20.14: ACZISC members interested in participating in the strategy meeting to contact the ACZISC Secretariat.

ACTION 20.15: ACZISC Secretariat to present the recommendations of this meeting at the next ACZISC meeting.

The following comments were made:

John Legault: The ACZISC is not "blowing its horn" enough. The Committee has acted as a catalyst for several initiatives in the region. This aspect of the Committee's activities must be promoted and senior personnel should be made aware of the many benefits derived through the ACZISC.

Brad Fay: ACZISC activities and procedures must not be formalized too much as this could hamper its ability to react quickly to situations, etc.

Art Longard: The ACZISC could be a forum for input in the Oceans Act. John Legault concurred with this suggestion. He added that DFO must undergo an internal re-orientation in order to respond to the requirements of the Act. Discussions must also take place between DFO, EC, the provinces and other relevant bodies.

Andy Sherin: The fact that the ACZISC is not a national committee makes it difficult for the federal government in Ottawa to deal with the ACZISC.

Larry Hildebrand: A regional sub-group of the federal Working Group on Integrated Coastal Zone Management has been formed. Andy added that the regional sub-group currently consisted of two committees: a Steering Committee chaired by George Finney, Regional Director, Environmental Conservation Branch, which will be meeting once a year; and a Research Managers Committee chaired by Alex Bielak, EC. A number of projects will be undertaken, e.g., Mike Sinclair, DFO, is organizing a group which will review data used for monitoring purposes and also data access policies.

Andy Sherin reported that he would obtain information on the regional committees and make it available to the ACZISC Secretariat for distribution.

ACTION 20.16: Andy Sherin to obtain information on the activities of the regional Research Managers Committee of the federal Working Group on Integrated Coastal Zone Management and provide a copy to the ACZISC Secretariat.

Brian Nicholls stated that it is important for the ACZISC to establish formal communication with this regional sub-group.

ACTION 20.17: ACZISC Secretariat to initiate the establishment of formal links with the regional Steering Committee and the Research Managers Committee ASAP.

Don Amos suggested that the activities and deliverables of the ACZISC also be made known on Canada's other coasts and elsewhere in the country. This could help to focus national concerns re ICZM.

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

NATURAL RESOURCES CANADA/GEOLOGICAL SURVEY OF CANADA - ATLANTIC: Andy Sherin reported on activities at the GSC Atlantic. He displayed the Browns Bank Habitat Map, produced from a recent multi-beam hydrographic survey in the area. The project was carried out as a partnership between the CHS, Clearwater International, Fisheries and Oceans Canada and the GSC Atlantic. Samples of mapping off Louisbourg, NS were also circulated; it is an area subject to serious erosion problems which affect the archaeological sites. Surveys may be carried out off Richibucto, NB and the PEI National Park in the near future. The Richibucto work is being discussed with Jacques Thibault, NB Department of Natural Resources and Energy. The surveys are being done with a new tool acquired by CHS, a trailerable multi-beam sonar.

Another potential area of data collection is the Bay of Fundy. A survey was carried out with the Creed in Chignecto Bay and a preliminary interpretation of the data has been done by Gordon Fader. Contour data obtained from the NS Geomatics Centre is being added.

Ray Cranston, a geochemist with the GSC Atlantic, is looking at fluxes of anthropogenic material. Significant differences have been identified in Halifax, Vancouver and Uruguay. The work is being carried out as a partnership between EC, DFO, Dalhousie University, Acadia University, four institutes in Uruguay and the GSC Atlantic. A project in Argentina is also being proposed.

Kimberley Edwardson briefed participants on the Coastal Information System (CIS) developed by the Geological Survey of Canada - Atlantic. The mapping has been done with ArcInfo/ArcView. Seven 1:50 000 map sheets have been produced for the Avalon Coast; nine 1:50 000 map sheets are currently being produced which will cover Bonavista Bay in its entirety. There have been problems initiating a CIS project in the PEI National Park re coastal erosion; they are being addressed. Voiseys Bay has become a focus area because of the mining activity in the area; it will be mapped for sediment types.

NEW BRUNSWICK: Réjean Castonguay reported on the status of the NB topographical database; he explained that there had been delays in structuring the data due to quality control and stringent standards. He reviewed the schedule for converting the database to NAD83, and other NB geomatics projects, including the coastal features mapping project. Copies of his overheads are attached.

A Committee was formed in January 1997 to develop a Coastal Marine Policy. After the Policy is adopted, the Province will determine information requirements to administer the policy.

The Province of NB is formatting the 1:10 000 topographical database for distribution on CD-ROM and the Internet. The cost per 1:10 000 file is \$10; 1890 map sheets cover the Province.

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA: Don Amos reported that PWGSC was working on various coastal zone related activities, including a major pollution clean-up in Argentina. Mapping for the Fixed Link - Confederation Bridge - will be ongoing for another year; the mapping is related to the environmental monitoring process. PWGSC will be the custodian of the mapping, which will be made available upon its completion. *Information on Confederation Bridge is available at <http://www.cycor.ca/nscp/index-e.html>*

ENVIRONMENT CANADA: Larry Hildebrand reported that the ACAP (Atlantic Canada Action Program) had developed successful partnerships for CZM; there are currently 13 ACAP locations in Atlantic Canada. ACAP is scheduled for completion on 31 March. 1997/98 will be a transition year to determine how the ACAP approach can be extended. Also EC is holding talks with DFO and the provinces on bringing together community-based organizations and programs which can lead to powerful and effective partnerships.

Larry reported on a few events scheduled in the near future:

- The Canadian Coastal Conference (CCC) scheduled for 22-25 May at the University of Guelph, Guelph, ON. The Conference is sponsored by the Canadian Coastal Science Engineering Association (CCSEA). The CCC conference series alternates with the Coastal Zone Canada (CZC) series, sponsored by the CZC Association. A link has been made between the CCSEA and the CZC Association and a workshop will be held by the CZC Association during the Canadian Coastal Conference. *Information on the CCC can be obtained at <http://cs715.cciw.ca/ccsea/c3972ndann.html>.*
- Coastal Zone 97 scheduled for 20-26 July in Boston, MA. This conference series has been an annual event held for approximately 15 years and attracts 1500-2000 participants from all over the world. Larry suggested that the ACZISC consider a presence at the Conference. *Information on the Conference can be obtained at <http://www.csc.noaa.gov/SCSeaGrant/text/CoastalZone.html>.*
- Coastal Zone Canada 98 scheduled for late August/early September in Victoria, BC. The focus of the Conference will be on community-based management. It would also be important for the ACZISC to participate in this Conference.

Eric Theriault reported on the Atlantic Region Habitat Sensitivity Mapping Program. A contract has been issued to Cormorant Ltd. (Jim Dempsey) re the shoreline characterization of the Northeastern portion of Newfoundland. The Western portion of Newfoundland and Labrador will be done a later date.

A partnership to undertake coastal geomorphological studies in Labrador has been completed with Voisey Bay Inc. The work will be carried out by Jacques Whitford.

EC has negotiated a distribution licence with NRCan for the 1:250 000 and the 1:50 000 digital map files which EC has obtained for the Sensitivity Mapping Program. They are being sold for \$100 and \$65 respectively.

EC is supporting an R&D project being carried out by AERDE Environmental Research (Dirk Werle). The project is comparing coastal geomorphology obtained for the Sensitivity Mapping Program via field work, aerial videos, etc. with that which can be interpreted from RADARSAT imagery at 25 metre resolution.

NEWFOUNDLAND: Tim Anderson summarized a report on activities in Newfoundland (copy attached), prepared by Randy Gillespie, Operation ONLINE.

GI-2000, Newfoundland's forum on geomatics, was held in November 1996; the theme of the meeting was Partnerships in Geomatics. It was attended by 80 participants. The highlights included the ongoing efforts to develop a geomatics strategy for the Province and the soon-to-be announced \$2.5 million marine geomatics initiative at the Canadian Centre for Marine Communications (CCMC). An afternoon session was dedicated to marine geomatics. Proceedings will be available. *Information on the CCME is available at <http://inseine.ifmt.nf.ca/~ccmc/CCMC.HTM>.*

Efforts have been under way to develop a geomatics strategy for Newfoundland since October 1996. A document is being prepared which outlines the benefits to government and industry of a coordinated approach to geomatics. The document is scheduled to be submitted to Cabinet this month.

A CEONet User Requirements Workshop was held in St. John's in January. It was attended by 46 individuals.

The governments of Canada and Newfoundland plan to invest \$20 million to support the growth of the aquaculture industry in the Province. Part of this program will focus on the information requirements of industry and government. A user survey will be carried out by the CCMC re software appropriate for aquaculture site selection and aquaculture management.

Tim Anderson reported on other coastal zone activities under way in Newfoundland:

- extensive mapping in Placentia Bay
- several coastal zone mapping projects sponsored by community groups and others. Fogo Island is actively involved in the sentinel fishery, historical catch data, and a coastal resource inventory project.
- a retired fisheries officer in Labrador is documenting his Traditional Ecological Knowledge (TEK)
- a Marine Protected Area Agreement has been signed re Notre Dame Bay and Trinity/Bonavista by Minister Copp, Canadian Heritage, Minister Mifflin, Fisheries and Oceans, and Minister Marchi, Environment.
- the Summit of the Sea will be held in St. John's in August/September 1997. Approximately 3000 participants are expected. *Information on the Summit of the Sea is available at <http://enterprise.newcomm.net/cabot500/summit/default.htm>.*

FISHERIES AND OCEANS CANADA: Tim Anderson, DFO Newfoundland Region, reported that the Canada Oceans Act was given assent mid-December and was passed by Order in Council on 28 January. The Act deals with Canada's Maritime Zones, an Oceans Management Strategy, and the Powers, Functions and Duties of the Minister. Tim also noted that the Fisheries Act had gone for second reading.

In regards to Marine Protected Areas, a discussion document has been circulated to 1500-1600 individuals for comment with a 90 day turn-around time. A discussion document on CZM is being prepared and will be distributed for comment by Chris Morry, National Coordinator ICZM, DFO Ottawa. A committee is being formed re Marine Environmental Quality; it will be meeting in the near future.

A limited ground fishery will be allowed in Placentia Bay in 1998.

Dale Nicholson reported on activities at the Canadian Hydrographic Service (CHS). He briefed participants on the status of Electronic Navigation Charts (ENCs). 150 of the 289 charts in the Atlantic Region are now in digital format. Of these, all require conversion to the S-57 standard and

43 low-level charts require considerable upgrade. The change to S-57 will have considerable implications throughout CHS.

A joint project is being carried out by CHS and Newfoundland to collect aerial photography at 1:25 000 for the area between McCallum and Isle aux Morts on the Province's south coast. 1000 km of flight lines have been flown, resulting in 250 km of shoreline coverage. The photography is being used to produce 1:5000 plots.

Jennifer Hackett, Maritimes Region, reported on behalf of Bob Rutherford that coastal mapping for the former Scotia/Fundy Region of DFO was ongoing; the coverage extends from the tip of Cape Breton Island, NS to Charlotte County, NB. The mapping is being done at 1:10 000 and will be available in hard-copy format by the end of March; it will also be available in digital format at a later date. The issues of ownership and copyright are being addressed in terms of distributing the information. Some of the data used in the mapping is in the public domain and some is owned by the communities participating in the projects.

Alain Bourgeois reported on activities in the Laurentian Region. He stated that the GIS-based mapping system for the entire Region was nearing completion. The system will be used for fisheries management. Currently it contains polygon information on hydrography, TEK, and habitat type, supplemented with reference information. Point source data will also be added. The information is being analyzed to identify sensitive areas. A model is being developed to identify areas susceptible to environmental damage, e.g., oil spills. The software being used for the GIS system are SPANS, MapInfo and CARIS.

Alain reported that the Laurentian Region was carrying out an evaluation of its information and GIS requirements to determine future directions. A report is being prepared.

ACTION 20.18: Alain Bourgeois to provide a copy of the report being prepared on the GIS and information requirements for the DFO Laurentian Region to the ACZISC Secretariat for distribution, when available.

A pilot project is under way in the Laurentian Region re the Oceans Act which deals with multi-partner coastal zone management. Coastal use mapping is being produced for the area from Escoumins to Forestville; the area will be extended to Sept-Îles next year. Regional and municipal groups are involved in the project.

Alain stated that the Laurentian Region would like to discuss linkages with the Gulf section of the DFO Maritimes Region.

Brian Nicholls briefed participants on the status of a literature review of CZM practices worldwide and an analysis of their application to Canada. The review is being carried out for both the East and West coasts. It consists of three parts: a bibliography; an analysis of the CZM practices in 20 countries and several US states; and their application to both the East and West coasts of Canada. The document will be provided when available.

A report on contaminants in Sediments in Nova Scotia has been prepared; contact Brian Nicholls directly for copies at tel 902-426-3246 or email brian.nicholls@maritimes.dfo.ca.

Brian also reported on the various sources of data within DFO and in particular the data management initiatives within the Marine Environmental Science Division; a copy of his notes is attached. The following data is available from the Marine Chemistry Section: chemical data from oceanographic

cruises; sediment trace metal measurements; nutrient and dissolved oxygen measurements for East coast Canadian waters; and toxic chemical data from laboratory experiments. The following data is available from the Habitat Ecology Section: biological, chemical and physical data from the Phytoplankton Monitoring Program; data from the Benthic Trawler Impacts Program; data on particles; data from the Bay of Fundy project; and historical data from a variety of sources.

John Legault added that a Data Access Committee had been formed, chaired by Paul Bellemare, to look at making data available internally within DFO and externally.

GIAC ATLANTIC/GANS: Simeon Roberts, Past-president of GANS, reported on GIAC and GANS activities. He commented on the GIAC/GANS agreement regarding joint representation by the associations on the ACZISC. A similar arrangement is being discussed with the Champlain Institute.

Simeon stated that he had represented the Champlain Institute at the Workshop in Trinidad; the conference featured two sessions on CZM. The conference was attended by 250 individuals.

The private sector is actively involved in MOUs negotiated between the NS Department of the Environment and St. Kitts, Trinidad and St. Lucia. A NS Caribbean Cooperation Committee has been formed and is chaired by Mauritz Erhardt (NSDOE).

A new GIAC Export Group had been formed. Copies of the November/December issue of GIAC News were distributed.

The GANS Annual General Meeting will be held on 6 March at the Westin Hotel in Halifax; Mike Butler has been invited to make a presentation on the ACZISC.

GANS, the NS Department of Housing and Municipal Affairs and the College of Geographic Sciences (COGS) organized lectures by Roger Tomlinson in Lawrencetown on 20 November, and in Halifax on 21 November. The events were organized to celebrate the 50th anniversary of COGS.

NOVA SCOTIA: Irwin Judson reported that a Workshop will be held re the Shelburne Coastal Mapping Project in Shelburne from 18-20 March. The purpose of the Workshop is to identify local applications for the project and to demonstrate its applicability to ICZM in other communities.

Planning for Coastal 2000 is still under discussion province-wide. Discussions are also taking place via the Federal/NS Roundtable on the Environment and the Economy. Two committees are contributing to the further development and implementation of the Coastal 2000 concept:

- the NS Coastal Committee, chaired by Brian Giroux; Larry Hildebrand is a member.
- the NS ICZM Centre of Excellence Committee, chaired by Peter Ricketts, Dalhousie University; Mike Butler is a member. The proposed Centre would capitalize on the Province's expertise in ICZM for internal application and for export purposes. A paper has been prepared and will be circulated for comments. Irwin added that the form which the Centre will take has not been determined; approaches being considered include the Centre being a "virtual" body or an institution tied to a university or NGO.

A cooperation agreement between NS and West Java may result from the Team Canada visit to Asia in 1997. The agreement would focus on ICZM, municipal administration and mining. Discussions are at an early stage. A working group has been formed which includes representatives of the NS Economic Renewal Agency, the Departments of Housing and Municipal Affairs, Fisheries, and Environment, the Champlain Institute and the NS Oceans Initiative. The working group is developing a series of one-page documents on components which could form part of the proposed agreement.

Suggestions are being sought.

Irwin expressed concern that Canada's Oceans Management Strategy will be developed with too much detail prior to input being sought by DFO from the provinces and other sources. The provinces would like to be informed on when and how the input process will be carried out.

On behalf of Brad Fay, Irwin reported that 1997 would be significant for geomatics in NS:

- the 1:10 000 topographic database and property mapping database will be completed.
- the 1:50 000 coastal database will be launched.
- LRMI (Land Records Management Infrastructure) will be launched. LRMI is a set of software tools to manage and access land information.
- the automated Personal Property Registry will be implemented.
- an RFP will be distributed for a study to scope the building of a provincial civic addressing database.

The Province is continuing to promote the GeoNOVA concept, i.e. a corporate approach to the management and use of provincially held geographic information. The initial focus will be on provincial departments and then on cooperation with municipalities, the federal government and the private sector. This is an initiative involving all levels of government to vertically integrate the collection, sharing and exchange of geographic information. Examples include the collection of civic addressing or road network information by the municipalities which would also be used at the provincial level and the federal level.

CANADIAN HERITAGE: Francine Mercier reported that a feasibility study will take place re the proposed Bonavista/Funk Island Marine Conservation Area project in Newfoundland. Two reports will be used in the study: the Identification of Representative Marine Areas in the Laurentian Channel Marine Region and the Identification of Representative Marine Areas in the North Gulf Shelf Marine Region. The reports identify biological, cultural, oceanographic and geological themes.

6. **PRESENTATION: COASTAL MAPPING IN THE GULF REGION**

John Legault provided an overview of the TEK Coastal Mapping Project in the Southern Gulf region of DFO. He introduced Lee MacNeill of MacNeill and Associates, the group responsible for the mapping.

Lee and John gave a detailed presentation on the TEK project, including the unique approach taken for the collection of the TEK data and the subsequent mapping. The information was collected by fisheries officers from fishermen and community representatives. The data collection and compilation was coordinated by experienced mappers. The resulting maps were subjected to review by the information providers and scientists.

The maps are being used for planning and conservation by fishermen, communities and scientists. Habitat is being inferred from the TEK data and the maps are being used by scientists to direct and plan their scientific research. An added benefit of the project has been to encourage a non-confrontational exchange between DFO and fishermen. Copies of the mapping will be provided to fishermen in a suitable format. John added that the mapping represents a "moment in time" and that, hopefully, the exercise can be repeated in a few years to derive the benefits of a time series study.

Several map samples were displayed and interpreted by Lee and John.

Réjean commented that he would like to invite John and Lee to make a presentation at the next NB Coastal Zone Committee meeting.

Lee reported that the Gulf Coastal Mapping Project and associated procedures would be presented to the Organization of Eastern Caribbean States at meetings scheduled for 17-19 February in St. Lucia. A month-long Training Course for Caribbean Fisheries Officers in TEK Data Collection and Compilation will take place during March at the NS School of Fisheries in conjunction with the Gulf Coastal Mapping Project. The Training Course is sponsored by the Oceans Institute and the NS Department of Fisheries.

7. **UPDATES**

ATLANTIC ACCORD ON THE INTEGRATED MANAGEMENT OF THE COASTAL ZONE: Mike Butler reported that the development of the Accord had been an initiative of the OIC with input from the ACZISC. The Accord is on hold for the time being; anyone wanting a copy should contact Mike at tel 902-494-1977 or email mbutler@is.dal.ca.

COASTAL ZONE CANADA CONFERENCE SERIES: Proceedings from the CZC '94 Conference held in Halifax are still being sold. Several ACZISC members were involved in organizing and holding the Conference. CZC '96 took place in Rimouski, Québec last August.

CZC'98 will take place in Victoria, BC from 30 August to 3 September 1998. The CZC'98 Organizing Committee is co-chaired by Michael Dunn, Canadian Wildlife Service, Environment Canada, Delta, BC and Joe Truscott, BC Ministry of Agriculture, Fisheries and Food, Victoria, BC. CZC'98 will have a community focus. CZC 2000 will be held in Saint John, NB. 2002 is provisionally scheduled for the Great Lakes region and 2004 for the Arctic.

The CZC Conferences are organized under the guidance of the CZC Association. Membership in the Association is being encouraged.

ECONOMIC STUDY: Mike Butler reported that EC had provided \$5K towards the proposed study on the Impact of Atlantic Canada's Coastal Zone Activities on the Economy of the Region and its Provinces. Marshall Moffat, Director of Economic Analysis, DFO Ottawa has committed \$10K. Art Longard has obtained a commitment from the NS deputy ministers of Fisheries and Environment to contact the CMP in regards to obtaining regional funds for the study; a letter has been written by the deputy ministers to the Secretary to the CMP, Keith Wornell, in this regard.

GULF OF MAINE COUNCIL ON THE MARINE ENVIRONMENT: A meeting of the GoM Working Group is scheduled for 4-5 March in New Hampshire. A new 1996-2001 GoM Action Plan was released last December. The Plan is more targeted than previous plans and focuses on habitat, detailed deliverables and timeframes.

The GoM is carrying out several projects re land-based sources of pollution. In this regard, the GoM Council is cooperating with the Commission on Environmental Cooperation (CEC), a UNEP Global Programme of Action (GPA) agency based in Montréal. The CEC is undertaking two case studies: the Gulf of Maine and the Gulf of California. A Workshop to identify relevant studies was held at the University of New Hampshire from 20-22 November 1996. *Information on the GPA is available at <http://www.unep.org/unep/gpa/>.*

Larry Hildebrand added that a session will be held at CZ 97 in Boston next July which will compare three international projects: Puget Sound, the Great Lakes and GoM.

8. **ANNOUNCEMENTS AND PUBLICATIONS**

No announcements were made.

9. **OTHER BUSINESS**

No new business was discussed.

10. **NEXT MEETING AND ADJOURNMENT**

ACZISC Meeting #21 is scheduled for Thursday, 5 June 1997 in Charlottetown.

ACZISC Meeting #20 adjourned at 17:00 hrs.