

MINUTES OF ACZISC MEETING #38

Atlantic Coastal Zone Information Steering Committee

Date: Wednesday and Thursday, 29-30 January 2003

Location: Riverhead Room, Battery Hotel
100 Signal Hill Road, St. John's, NL

PARTICIPANTS (¹ indicates ACZISC member; ² indicates Executive Committee member)

Name	Affiliation	Tel. No.
Tim Anderson ¹	Fisheries and Oceans Canada, Oceans and Environment Branch, NL Region	709-772-2852
Joe Arbour	Fisheries and Oceans Canada, Oceans and Environment Branch, Maritimes Region (for Carol Ann Rose ^{1,2})	902-426-3894
Eddie Bearns	Public Works and Government Services Canada (for Bill Blight ¹)	709-772-4988
Cdr George Borgal ¹	National Defence, TRINITY, JOSIC	902-427-0550
Michael Butler ^{1,2} , Chair	International Oceans Institute of Canada	902-494-1977
Bob Chisholm	Alliance for Marine Remote Sensing	902-491-3571
Cyr Couturier	APICS ^{1,2} / Marine Institute, Memorial University	709-778-0609
Elisabeth DeBlois	Jacques Whitford Environment Ltd	709-576-1458
Tom Dooley	NL Department of Fisheries and Aquaculture	709-729-0335
Dolores Durant	Natural Resources Canada	613-992-4333
Gary Frail ¹	RCMP, Coastal Watch Program	902-458-2237
Grant Gardner	APICS ^{1,2} / Memorial University	709-737-8155
Paul Glavine	NL Fisheries and Aquaculture	709-729-3735
Leslie Grattan ¹	Government of Newfoundland and Labrador, Environmental Planning and Management Projects	709-729-3782
Darren Hicks	NL Department of Mines and Energy	709-729-6584
Larry Hildebrand ¹	Environment Canada, Sustainable Communities and Ecosystems Division	902-426-2131
Justin Huston ^{1,2}	Government of Nova Scotia, Agriculture and Fisheries	902-424-2996
Randy Jenkins	Fisheries and Oceans Canada, NL Region	709-772-0468
Claudette LeBlanc	ACZISC Secretariat	902-494-1977
John Legault ¹	Fisheries and Oceans Canada, Oceans, Gulf Region	506-851-6221
Geoff Lewis ¹	Industry Canada, Energy and Marine Branch	902-426-9475
Jon Lien	Minister's Advisory Council on the Oceans, and Memorial University of Newfoundland	709-753-5495
Ed Light ¹	Government of Nova Scotia, Service Nova Scotia and Municipal Affairs	902-424-0173
Dick MacDougall ¹	Fisheries and Oceans Canada, Canadian Hydrographic Service	902-426-3497

PARTICIPANTS (cont'd)

Neil MacNaughton ¹	Government of Newfoundland and Labrador, Government Services and Lands	709-729-3239
Keith Mercer	Marine Institute, Memorial University	709-778-0608
Barry O'Rourke	Compusult Limited	709-745-7914
WO Mark Peters	National Defence	902-427-0550
Derek Scott	Provincial Airlines	709-576-1800
Andy Sherin ¹	Natural Resources Canada, Geological Survey of Canada	613-995-0525
Jason Simms	Fisheries and Oceans Canada, NL Region	709-772-8014
Herb Sooley	Health Canada	902-426-5575
Rob Thompson ¹	Parks Canada, Atlantic Service Centre	902-426-3281
Cameron Wilson ¹	Natural Resources Canada, GeoConnections Secretariat	613-996-6377

1. *WELCOME and INTRODUCTION OF PARTICIPANTS*

Mike Butler, ACZISC Chair, called ACZISC Meeting #38 to order at 0900 hrs on 29 January 2003. He welcomed members and observers and thanked Leslie Grattan and Tim Anderson for making the meeting arrangements, for providing the meeting room and the lunch and for organizing the presentations. He also thanked Leslie for inviting Keith Mercer and students of the Coastal Zone Management Advanced Diploma Programme of the Marine Institute to participate as observers tomorrow and for putting up posters on their research.

A roundtable introduction of all participants followed.

2. *ADOPTION OF AGENDA, and REVIEW AND APPROVAL OF MINUTES FOR MEETING #37*

The provisional Agenda for ACZISC Meeting #38 was reviewed. Mike Butler stated that some flexibility was required in the sequence of agenda items in order to make the best use of time over the next two days and to accommodate the schedule of presenters. Members agreed with this approach and approved the agenda (attached).

The draft minutes of ACZISC Meeting #37 were reviewed and approved as distributed. The minutes will be posted on the ACZISC website at <http://www.dal.ca/aczisc/docs>

3. *STATUS OF ACTION ITEMS*

The Action Items from Meeting #37 were reviewed. All Action Items carried out or in progress will be reported on under the relevant agenda item.

The following were not carried out:

ACTION 37.3: Prior to next meeting, Secretariat to review the cost implications of implementing full or partial bilingual services for the ACZISC and potential sources of support to deliver the bilingual services

Mike Butler reported that this had not been completed due to the considerable amount of time needed to prepare the ACZISC funding submission to CAP. He reviewed the current situation as per the recommendation from ACZISC Meeting #29 (26 January 2000):

“The ACZISC Secretariat should have the capacity to communicate in both English and French. This would require that one of the Secretariat staff members be functionally bilingual. Information made available for posting on the ACZISC website or other communication media may be posted in the language of submission, i.e. French or English or both.”

Mike added that the Secretariat would prepare an estimate of costs associated with translating documents, etc. and research sources of funding and support available for this purpose.

ACTION 37.15: *Paul Boudreau to provide ASAP a list of historic and current studies to the Secretariat which identify users and user needs with regard to coastal data and information*

ACTION 37.17: *Brent Rowley, Bob Maher and Secretariat to complete the overview paper on the High Resolution Coastal Mapping Program by the next meeting*

ACTION 37.18: *Paul Boudreau to prepare ASAP a short report on the system and information needs of managers for a holistic overview of ecosystem issues*

Mike Butler reported that he would follow up with Paul Boudreau, Brent Rowley and Bob Maher re the above.

4. **SCHEDULE OF UPCOMING ACZISC MEETINGS**

The schedule of upcoming ACZISC meetings was discussed. The following dates were provisionally selected:

- 21-22 May 2003: ACZISC Meeting #39, Fredericton, NB
- 10-11 September 2003: ACZISC Meeting #40, Halifax, NS
- 28-29 January 2004: ACZISC Meeting #41, Charlottetown, PEI
- 19-20 May 2004: ACZISC Meeting #42, St. John's, NL
- 15-16 September 2004: ACZISC Meeting #43, Fredericton, NB

5. **ACZISC ADMINISTRATION**

ACZISC EXECUTIVE COMMITTEE: Mike Butler stated that the ACZISC Executive Committee currently consists of a representative from each of the following sectors: Academia (Lois Whitehead); Federal (Carol Ann Rose); Private (Brent Rowley); Provincial (Justin Huston); and the Secretariat (Mike Butler). The Executive Committee provides advice to the Secretariat.

The ACZISC Executive Committee met on 20 January 2003 at BIO. Justin Huston, Ken Paul, Carol Ann Rose and Mike Butler were in attendance. Justin reported that the Committee had reviewed the following:

- the proposed incorporation of ACZISC Inc.
- ACZISC funding and the CAP funding proposal
- The proposed GeoConnections contract
- First Nation representation on the ACZISC.

Justin stated that the items would be discussed in detail under the appropriate agenda items.

INCORPORATION: Mike Butler distributed a 1-page document re the proposed incorporation of an ACZISC Inc. entity as a separate fiscal agent for the ACZISC committee. He stated that the document had been prepared based on the recommendations of the OIC lawyer and the auditor.

Justin Huston stated that the Executive Committee had reviewed the document on 20 January and had recommended that the incorporation of ACZISC Inc be initiated ASAP. Ed Light suggested that the purchase of liability insurance for the ACZISC Inc. directors be considered if deemed appropriate and reasonably priced.

Members arrived at a consensus that the Secretariat should proceed with the incorporation of ACZISC Inc. Mike added that efforts would be made to complete this by the end of March. The Secretariat will initiate the process, including identifying the Board of Directors, drafting by-laws, and preparing a draft MoU between the Secretariat and ACZISC Inc. for the operation of the Secretariat.

ACTION 38.1: Secretariat to initiate ASAP the incorporation of ACZISC Inc., a fiscal agent for the ACZISC Committee, within the NS Societies Act

ACTION 38.2: Secretariat to look into the requirement for and the cost of liability insurance for the Directors of ACZISC Inc.

SECRETARIAT: Mike Butler reported the following:

- The ACZISC Secretariat is staffed on a full-time basis by two personnel: the ACZISC Chair (himself) and Claudette LeBlanc, the Project Officer/WebMs. It is supported by a financial officer, part-time.
- The Secretariat is located at 1226 LeMarchant Street in Halifax where it is provided with rent-free offices, access to the Dalhousie University computer network, etc.

MEMBERSHIP: Mike Butler introduced two new members: Gary Frail, representing the RCMP and John Legault, representing Fisheries and Oceans Canada, Gulf Region.

Justin Huston reported that Ken Paul had announced at the recent Executive Committee meeting that he must resign from the ACZISC because of potential conflict of interest situations. Members expressed their appreciation for all of the work that Ken had done on behalf of the ACZISC and for his future assistance.

Mike added that efforts would be made to identify a recognized First Nations representative for the ACZISC. Ken will assist by arranging a meeting with the Secretariat and First Nation representatives. Mike stated that First Nation representation will require an MoU which clearly indicates that any First Nation representation on the ACZISC would be “without prejudice” in regard to ongoing legal negotiations with the federal and provincial governments.

ACTION 38.3: Secretariat to meet with Ken Paul and representatives of First Nation organizations ASAP to discuss First Nation representation on the ACZISC

Mike reported that the Secretariat continues to communicate with potential new members, including Health Canada, the Office of Critical Infrastructure Protection and Emergency Preparedness (OCIPEP) and ACOA.

Herb Sooley, Health Canada, indicated that potential membership by the Department and the benefits and responsibilities associated with membership would be discussed with his Director and RDG. He requested that members assist by providing him with examples of the potential impacts of coastal activities and events on human health.

ACTION 38.4: Members to provide Herb Sooley (herbert_sooley@hc-sc.gc.ca) with examples of the potential impacts of coastal activities and events on human health by 31 March 2003

Members recommended that the following organizations be considered re membership on the ACZISC: the Canadian Environmental Assessment Agency, the Canadian Food Inspection Agency, the Canada Newfoundland Offshore Petroleum Board and Transport Canada.

ACTION 38.5: Secretariat to continue contacting agencies identified as potential members of the ACZISC

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

BUDGET / FUNDING: Mike Butler distributed copies of the updated ACZISC Budget / Financial Statements for 2002-2003 and revenue summaries. Copies are attached. The statements were reviewed.

Mike reported the following:

- Fiscal year 2001-2002 was the last year in which the Council of Maritime Premiers (CMP) contributed funds to the ACZISC on behalf of the Maritime Provinces.
- 2002-2003 is a bridging year. Efforts to secure funding to fill the shortfall resulting from the cancellation of the CMP contribution have been reasonably successful. These include: additional contributions from federal departments; contributions from the Provinces; and a potential contract between GeoConnections and the Secretariat to speed up the merger of the ACZISC metadata into the GeoConnections Discovery Portal.
- The shortfall for fiscal year 2002-2003 will be approximately \$5K. Members are encouraged to pay their dues for next year in March 2003 if possible to avoid a cash flow problem.
- An ACZISC funding proposal has been prepared for submission to the Council of Atlantic Premiers (CAP), which represents the four Atlantic Provinces. The proposal is for \$70K per year over the three-year period beginning in fiscal year 2003-2004. This amount would be matched by the federal departments, an increase of \$5K over the \$65K currently identified in the MoU between the federal departments.
- The decision re the ACZISC funding proposal will be made by the CAP Steering Committee, which is composed of the four provincial Intergovernmental Affairs (IGA) Deputy Ministers and chaired by the Secretary to CAP (Ed Cramm), in consultation with the resource departments from their Province.
- Meetings of the Secretariat and personnel of the IGA departments and resource departments have been held in each of the four Atlantic Provinces to seek support for the CAP funding proposal. Their responses have been quite favourable. The list of personnel contacted to date was distributed.

Discussion:

George Borgal suggested that the federal members meet during the lunch hour to discuss the \$70K federal contribution and the amount to be paid by each department.

Ed Light suggested that the provincial members also meet over lunch to discuss provincial contributions.

George Borgal recommended that provincial members contact their IGAs to firm up support for the ACZISC funding proposal to CAP.

Tim Anderson requested that invoices for dues for 2003-2004 be sent to the federal departments by early March 2003.

Larry Hildebrand enquired if \$140K (\$70K - federal and \$70K - provincial) was sufficient to meet the budget requirements of the Secretariat. Mike Butler responded that \$150K was required, *i.e.* \$140K from government sources plus \$10K earned for the ACZISC from the ORMN.

The 2-page CAP funding proposal was distributed and reviewed. The Secretariat will revise the document based on comments and submit it to CAP.

ACTION 38.6: Federal members to meet to discuss the level of ACZISC funding per federal member department for fiscal year 2003-2004

Federal members met during lunch on Thursday, 30 January. On their behalf, Larry Hildebrand reported that they had confirmed their commitment of contributing \$70K in fiscal year 2003-2004 and that efforts would be made by each department to pay their portion by the end of May.

ACTION 38.7: Provincial members to meet to discuss potential alternate ACZISC funding for fiscal year 2003-2004 and provincial expectations vis-à-vis the ACZISC

Provincial members also met during lunch on Thursday, 30 January. On their behalf, Ed Light reported that they had discussed:

- the need for a back-up plan if the funding submission to CAP is not successful.
- the need for a 2-hour meeting of provincial members in conjunction with the upcoming ACZISC meeting in Fredericton.
- the need to put geomatics in the forefront of ACZISC discussions and activities and to make a connection with CCOG discussions.

ACTION 38.8: Provincial members to contact their IGA personnel ASAP to reinforce support for the ACZISC funding submission to CAP

ACTION 38.9: Secretariat to submit the ACZISC funding submission to the Council of Atlantic Premiers (CAP) by 7 February 2003

ACTION 38.10: Members to review the financial documents distributed at the St. John's meeting and provide comments to the Secretariat by 15 February 2003

ACTION 38.11: Secretariat to prepare a provisional ACZISC budget for fiscal year 2003-2004 and distribute to members by 28 February 2003

ACTION 38.12: ACZISC Secretariat to send invoices ASAP to federal members for the fiscal year 2003-2004

ACTION 38.13: Federal members, if possible, to pay their ACZISC dues prior to the end of fiscal year 2002-2003

6. ***WORKING GROUP REPORTS***

COMMUNICATIONS WORKING GROUP: The ACZISC Communications Working Group is chaired by Mike Butler.

Mike reported that, in addition to the networking and discussions at the ACZISC meetings and workshops, ACZISC communications tools currently include the monthly Update e-newsletter, the website, the Coastal Zone information sheet distributed at workshops and conferences, and minutes/roundtable reports of ACZISC meetings.

Mike stated that the minutes and roundtable reports provide a wealth of information; he expressed concern that these might not be distributed and utilized widely. Claudette LeBlanc

stated that she posts a notice re their availability in the ACZISC Update. She added that recent website user statistics indicate that individual ACZISC minute/roundtable reports have been accessed by as many as 500+ people to date. She added that, although this does not confirm that the information is utilized, it is a 'positive indicator'.

Mike reported that he recently had a meeting with Gary Warnock, Regional Director of Communications Canada in Nova Scotia, to discuss the communication tools used by 'professional communicators'. He had met Gary Warnock at an RCMP Christmas reception attended by the Secretariat following an invitation by Gary Frail. Discussions with Gary Warnock suggest that the ACZISC is 'on the right track' with its communication tools. Efforts will continue to make improvements and in particular to assist members to communicate within their jurisdictions. This is especially difficult for provincial members because they represent their entire province. Appropriate communication forum may include the interdepartmental Provincial Ocean Network and GeoNova in NS; the Inter-agency Committee on Marine Issues and the Geographic Information Management Advisory Committee (GIMAC) in NB; and the ad hoc working group on oceans in NL.

DATABASE DIRECTORY WORKING GROUP: The ACZISC Database Directory Working Group (DDWG) is chaired by Claudette LeBlanc. She and Dolores Durant (on behalf of Cameron Wilson) reported the following:

- The Atlantic Coastal Database Directory (ACDD) was initiated by the ACZISC when it was formed in 1992. Available online at <http://www.dal.ca/aczisc/acdd>, the Directory contains metadata descriptions for over 500 databases of relevance to ICM in Atlantic Canada.
- The GeoConnections Discovery Portal (GDP) enables users to discover, evaluate, order and obtain geospatial products or services via the web at <http://geodiscover.cgdi.ca/>
- The ACZISC DDWG has previously recommended that the ACDD be integrated into the GDP and that a GDP 'sub-portal' be created for Atlantic Canada with a coastal/marine focus, *i.e.* the Atlantic Coastal Information Portal. This approach was recommended to:
 - eliminate duplication of effort between the ACZISC and GeoConnections
 - capitalize on resources, both expertise and funding, available from/through GeoConnections
 - reduce the workload of the database managers responsible for producing and maintaining metadata
 - promote the connectivity of databases by making them searchable and available online.
- The ACZISC and GeoConnections are currently finalizing a contract agreement. The objective of this project is to speed up the process of relocating metadata contained in the ACDD into the GDP. The deliverables for this project include:
 - identification of overlapping, unsupported, and inapplicable datasets with respect to the GDP that are now located in the ACDD, and their removal from the ACDD,
 - communication with the Atlantic Coastal Zone Information Steering Committee members and metadata owners,
 - updating and migration of metadata from the ACDD to the GDP,
 - final report as laid out in the Reporting and Monitoring of Work in Progress.

Claudette stated that she would be in contact with several ACZISC members to discuss the procedure for relocating the metadata currently in the ACDD from their jurisdiction into the GDP and as a result into the ACIP portal.

Mike Butler added that the contract would provide most of the additional revenue required for the ACZISC Secretariat to operate until the end of the fiscal year.

COASTAL MAPPING AND DATA EXCHANGE WORKING GROUP: Joe Arbour reported the following:

- At a regional meeting of the Interdepartmental Committee on Oceans held last summer, the issue of ecosystems/large management systems was discussed. Several approaches currently exist, *e.g.*, EC, DFO, Parks Canada.

- Discussions led to questions such as: What is the relationship between the approaches? Is there consistency? Is there an opportunity for collaboration?
- The need for a workshop to review the current situation and to identify potential collaboration was discussed by a small group on Tuesday night (28 January). The ACZISC could convene such an event.

Ed Light stated that the need for a workshop to address cadastral/administrative boundary issues has also been discussed at previous ACZISC meetings. Perhaps one could be organized to coincide with Geomatics Atlantic, scheduled for 23-25 June 2003 at Acadia University in Wolfville, Nova Scotia.

Mike Butler suggested that members contact the Secretariat re their interest in participating in and/or organizing an Ecosystem Boundary Workshop and a Marine Cadastral/Administrative Boundary Workshop.

ACTION 38.14: Participants to contact the Secretariat ASAP re their interest in participating in and/or organizing an Ecosystem Boundary Workshop

ACTION 38.15: Participants to contact the Secretariat ASAP re their interest in participating in and/or organizing a Marine Cadastral / Administrative Boundary Workshop

INTEGRATED COASTAL MANAGEMENT WORKING GROUP: The ACZISC ICM Working Group is co-chaired by Leslie Grattan and Carol Anne Rose. An ICM WG meeting was held from 1530-1730 hrs on Wednesday, 30 January. It was co-chaired by Leslie and Joe Arbour who represented Carol Anne Rose. Joe Arbour stated that the ICM Working Group was very useful for DFO.

The following is a summary of the ICM Working Group meeting:

Nova Scotia: Justin Huston reported the following:

- Although the Province does not have a coastal management policy, it is involved in a number of integrated management initiatives.
- The Province is a partner in the Eastern Scotian Shelf Integrated Management (ESSIM) initiative.
- The Province has identified utility corridors in its recently announced Energy Strategy. This is one of the issues to be addressed by ESSIM. Geoff Lewis added that Industry Canada regulates international cables for telecommunications. Atlantic Canada must ensure that problems such as those now experienced by Mexico, which has a spider web of pipelines in the Gulf of Mexico, be avoided.
- The interdepartmental Provincial Oceans Network (PON) was initiated in June 2002 to respond to Canada's Oceans Strategy. Input will be provided once the framework for implementing the Strategy is available.
- PON could also act as a conduit for tapping into the Province and to distribute information made available via the ACZISC. It can also assist in making provincial agencies aware of coastal issues.

Joe Arbour stated that the Oceans Task Group under the Canadian Council of Fisheries and Aquaculture Ministers (CCFAM) was in part mandated to network with the Provinces re the Oceans Strategy. The members from Atlantic Canada are: Russ Henry (NB); Greg Roach (NS); Dave Younker (PEI); and Mike Warren (NL). The provincial/federal co-chairs of the Task Group are Mike Warren and John Karau, DFO Ottawa. The Task Group is currently developing its workplan. Leslie Grattan added that a State of the Ocean report would be prepared by the Task Group.

Newfoundland and Labrador: Leslie Grattan reported the following:

- The Province is in the very early stages of developing a coastal management policy.
- The Newfoundland and Labrador Environmental Industries Association (NEIA) is working with the Department of Municipal and Provincial Affairs to awaken interest in wastewater facilities.
- Efforts are under way to develop an integrated management plan for Placentia Bay. An ad hoc working group has been established.
- The Prestige tanker incident/oil spill off the coast of Spain has served to refocus interest in provincial and federal policies and contingency plans re oil spills. As a result, strong linkages are being built between fishermen's associations and the oil and gas industry.
- The Province sees the Oceans Strategy as a vehicle for policy.

Prince Edward Island: Mike Butler stated that the Province was intending to appoint a 'policy member' for the ACZISC, in addition with Jim Ramsay.

Natural Resources Canada: Andy Sherin reported the following:

- The Inter-Agency Committee on Geomatics (IACG) has been resurrected at a higher level. This could lead to changes in pricing policies for data.
- Interest in exploration in the Gulf of St. Lawrence and the Queen Charlotte Islands may lead to new management regimes being developed and established.
- The proposed Climate Change project in Southeastern NB has both an adaptation and ecosystem component.
- NRCan's Earth Science Sector (ESS) is in the process of aligning its work to government policy. Seventeen programs have been generated, of which five will be of particular interest to the ACZISC. The ESS Business Plan is available online at http://nrcan.gc.ca/ess/esst_plan_2002_2005_e.pdf

Environment Canada: Larry Hildebrand reported the following:

- The Species at Risk Act (SARA) received Royal Assent in December. SARA legislation ensures that species are assessed under a rigorous and independent scientific process and requires the development of recovery plans and management for species that are found to be most at risk. SARA will have significant impact for DFO, EC, provincial agencies and private landowners. Rob Thompson added that Parks Canada also would be impacted by SARA.
- The ACAP Program has celebrated its 10th anniversary and is moving into a new 5-year phase. Efforts are being made to identify a site in Labrador with potential for inter-governmental and inter-departmental participation.
- The NL Federal Council has produced a federal strategy for Labrador.

Parks Canada: Rob Thompson reported the following:

- Ten new national parks will be established in the next five years to substantially complete the National Parks System. Two are located in Labrador: Torngat Mountains and Mealy Mountains.
- Five new national marine conservation areas (NMCA) will be established in the next five years. Three sites have been identified: Gwaii Haanas off BC's Queen Charlotte Islands, in Western Lake Superior, and in BC's Southern Strait of Georgia. An announcement is expected on the remaining two.
- Past efforts to establish NMCAs in the Fundy Isles area of NB and Bonavista in NF were unsuccessful.
- The Minister is open to expressions of interest from communities.
- It is expected that funds will be identified in the upcoming budget for the establishment of the parks and marine areas.

Fisheries and Oceans

Joe Arbour, DFO Maritimes, reported the following:

- Canada's Oceans Strategy and the accompanying working document 'Policy and Operational Framework for Integrated Management of Estuarine, Coastal and Marine

- Environments in Canada' were released last July. They are intended to foster discussion about Integrated Management approaches. An action plan is being developed.
- A meeting was held recently of the regional sub-committee of the federal/provincial advisory committee for the National Programme of Action (NPA) for the Protection of the Marine Environment from Land-based Activities. Fish plant waste has been identified as a source of pollution and will be studied. A fish plant effluent workshop will take place in Caraquet, NB in February. Chris Morry, DFO Gulf (morrycj@dfo-mpo.gc.ca) is the contact person.
 - The bottle-nosed whale is on the list of species at risk. A recovery plan for the species will be developed which places the onus on both government and industry.
 - The propagation of seismic noise is currently not well understood. Marathon Oil will be doing seismic work on the Scotian Shelf and has agreed to participate in a project with several partners, including the Government of NS, DFO and Dalhousie University, to study the propagation of seismic noise and behavioural changes. The partners are in initial discussions with the Environmental Studies Research Funds (ESRF) for funding. Jason Simms added DFO Science had been given the lead on marine species at risk. The wolfish is on the list in NL. Funds for research have been obtained through EC.

Tim Anderson, DFO NL, reported that DFO is working towards developing a national marine environmental quality (MEQ) framework by the end of next fiscal year. Broad-based consultations are taking place. Bill Hickey is finalizing the report on consultations in NL.

John Legault, DFO Gulf, reported that the Region was considering the 'meaning' of integrated management. A workshop for senior management personnel and scientists will be held to discuss this issue and to focus on the goals and objectives of integrated management.

George Borgal stated that DND makes use of the DFO website regularly to access data on sensitive areas, etc. He enquired if there was additional data, currently not available on the website, which could be accessed by DND and who the appropriate contacts were. Joe Arbour, Tim Anderson and John Legault stated that they be the initial contacts. George added that both he and Mark Peters were the appropriate contacts within DND.

WORKING GROUP STRUCTURE: Mike Butler reported that the ACZISC Working Groups would become more active now that significant progress had been made on the Strategic Plan, Workplan and the funding submission to the Council of Atlantic Premiers. He welcomed discussion on the WG structure.

Cameron Wilson suggested that the ACZISC Working Groups be restructured as required to align with the thrusts identified in the Strategic Plan and Workplan, *i.e.*

- Advocate the implementation of integrated coastal management in Atlantic Canada
- Provide a conduit for data/information access, exchange and dissemination
- Capitalize on collaborative opportunities related to ICM
- Maximize the viability and relevance of the ACZISC.

Members agreed with this approach.

The Secretariat suggested that the Working Groups be named as follows:

- Integrated Coastal Management: Co-chaired by Leslie Grattan and Carol Ann Rose.
- Communications: currently chaired by Mike. He will ask Marianne if she would like to co-chair the WG.
- Data and Information: This Group would be a merger of the current Database Directory, Data Exchange and Standards and Coastal Mapping working groups. Claudette LeBlanc and Andy Sherin volunteered to chair the Working Group.
- Executive Committee: Chair to be selected by Executive Committee members.

Mike added that, in addition to the Working Groups, ad hoc task groups could be appointed on an as-needed basis to address specific issues. The Secretariat, working with the Working Group co-chairs, will prepare draft WG guidelines.

ACTION 38.16: Prior to next meeting, Secretariat and Working Group co-chairs to develop draft guidelines for Working Groups and the Executive Committee

7. ***ACZISC 2002-2012 STRATEGIC PLAN AND OUTCOMES***

Mike Butler summarized the events leading to the current draft of the Strategic Plan, including the contract with Jessie Davies of UNB to initiate the process in Fredericton (January 2002) and subsequent meetings held to review and revise the document. He thanked Leslie Grattan and George Borgal for participating in a task group meeting in Halifax on 9 October, at which time significant progress was made on developing and focusing the Strategic Plan.

The current draft dated 21 November 2002 was reviewed by members and suggested revisions noted by the Secretariat. Larry Hildebrand stated that it was important for members to 'see' themselves in the thrusts. George Borgal emphasized the requirement to include outcomes in the Strategic Plan to give the document relevance; he described outcomes as the 'net value gained' or the answer to the question "What has changed as a result of ...?".

Members provided examples of Outcomes for inclusion in the Strategic Plan:

Geoff Lewis (and others) stated that they directed people enquiring about information related to ICM to the ACZISC website.

Andy Sherin stated that the ACZISC had been the #1 choice of the GSCA to prepare a scoping report summarizing the vulnerabilities of Canadian coastal areas, general response strategies and current adaptation projects. The report was prepared for a national Workshop on Coastal Impacts and Adaptation Related to Climate Change (5-6 March 2001 at BIO).

Other examples given include the initiation of the provincial coastal/marine economic reports and their impact on policy; the coastal mapping workshops and their influence on federal and provincial mapping programs; discussions at the ICM Working Group meetings and their effect on coastal policies; the initiation of the Coastal Zone Canada conference series by several ACZISC members and their impact on the practice of ICM.

It was suggested that members provide the Secretariat with further concrete examples of Outcomes for inclusion in the Strategic Plan.

ACTION 38.17: Members to provide examples of Outcomes to the Secretariat by 15 February 2003

ACTION 38.18: Secretariat to add examples of Outcomes to the ACZISC Strategic Plan by 28 February 2003

ACTION 38.19: Secretariat to revise the ACZISC Strategic Plan based on discussions in St. John's (29-30 January) and the Outcomes provided by members. Secretariat to distribute the document to members prior to next meeting

8. ***ACZISC WORKPLAN***

The draft of the Workplan dated 14 January was reviewed. Mike Butler stated that the RACI matrix system had been adopted to address accountability in the Workplan, as suggested by Leslie Grattan.

- R = Responsible
- A = Accountable
- C = Consulted
- I = Informed

Discussion:

Ed Light stated that it would be helpful if the word 'geomatics' was used in the Workplan to ensure the continuing support of his department. Dick MacDougall suggested that the language could be tied to that used by GeoConnections. Cameron Wilson stated that GeoConnections was using the term 'geographic information' because the definition of geomatics was not widely recognized, especially by the general public.

Larry Hildebrand enquired if it was intended that the status of the Workplan be reviewed at each meeting to identify progress. George Borgal added that this would also be helpful to identify issues to be brought forward. Mike Butler responded that the status of the Workplan would be reviewed at each meeting. He added that, to speed up the review process at the ACZISC meetings, the Workplan would be distributed prior to each meeting to allow members to review it.

ACTION 38.20: Members to provide comments to the Secretariat re the ACZISC 2002-2004 Workplan by 31 January 2003

ACTION 38.21: Secretariat to produce the ACZISC 2003-2004 Workplan based on comments and distribute to members prior to next meeting

9. PRESENTATIONS

INTEROPERABILITY AND WMS: Cameron Wilson briefed participants on interoperability and its role in web mapping services (WMS); copies of his overheads are attached. He acknowledged Tom Kralidis for his assistance in preparing the overheads.

Cameron described interoperability as the ability of information systems to freely exchange geospatial information and to cooperatively, over networks, manipulate the information. Interoperability does not require that users adopt the same data format and software. He emphasized that the move to interoperability is an evolutionary process and that WMS can be integrated with current information systems and operations. He described the role that GeoConnections is playing in facilitating WMS, e.g., the GeoConnections Discovery Portal (GDP) allows for searching for a variety of services (metadata, web maps, web features, and gazetteers). Users can publish, register, discover and access these services.

Cameron provided examples of current web mapping services: GeoGratis (<http://geogratias.gc.ca/>) and Toporama (<http://toporama.cits.nrcan.gc.ca/>) and explained their limitations, i.e. they are not based on interoperability. He then provided an animated demo of an interoperable web mapping application featuring a fire burn validation scenario and described the benefits of this type of application.

Discussion:

Geoff Lewis enquired re the level of skill needed to operate, select layers, etc for web mapping applications. Cameron responded that this depended on the complexity and the style of the application, which is determined by user requirements.

Larry Hildebrand enquired what motivated people to make their data available for web mapping applications. Cameron responded that benefits such as "integration opportunities", return on investment, efficiencies and the reduction of redundancies were motivating factors. George Borgal added that maximizing resource utilization across political jurisdictions, e.g., EMO applications, was another benefit.

Herb Sooley enquired re applications related to human health. Cameron replied that web mapping could make information available in a timelier manner. Applications include epidemiology and EMO response. He added that GeoConnections was currently working with Health Canada on applications related to health. Confidentiality is an issue of particular importance in this field of work.

Cameron added that Compusult Ltd was one of several Canadian vendors that were involved internationally in WMS and introduced Barry O'Rourke, President of Compusult. Barry further briefed participants on interoperability and standards and Compusult's activities and products; copies of his overheads are attached.

- MID-C (<http://www.mid-c.com>): The Marine Information Distribution Centre (MID-C) is a marine-based data and information system operated by Compusult. The application has been in operation for over four years and was deployed to support the day-to-day activities associated with offshore oil and gas operations. MID-C is currently not public but it is planned that it will become a free service in March.
- MID-C also serves as a showcase for Compusult tools and applications. There are plans to develop a tourism fee-based model.
- Web Enterprise Suite (<http://www.webenterprisesuite.com>): These technologies were developed by Compusult to address the requirements associated with providing interactive WWW-based applications to users of geospatial data. The Web Enterprise Suite contains Internet-based applications and toolkits that support web mapping, information cataloguing, discovery, retrieval and delivery services. These applications provide the ability to integrate into existing catalogue and product management facilities.

Discussion:

Mike Butler enquired who had initiated MID-C. Barry responded that a proposal for the application had been submitted to GeoConnections by Compusult.

John Legault stated that the fees charged by federal and provincial agencies for data and information were a barrier to the wide use of information distribution centres such as MID-C.

Cameron replied that WMS and web features services provided more flexibility in developing business models. Cost of data is an issue that is being addressed by the federal Inter-Agency Committee on Geomatics (IACG). It is anticipated that there will be some progress towards reducing the cost of accessing data in the near future. Some of the provinces are also moving in this direction. Neil MacNaughton added that Newfoundland and Labrador had played a lead role in providing data at low cost or no charge with the intention that resulting private sector applications would boost the economy.

FOREIGN OVERFISHING: Tom Dooley, Director of Resource Policy, NL Department of Fisheries and Aquaculture (DFA), made a presentation entitled "Foreign Overfishing: A Threat to Sustainable Fisheries on the Grand Banks of Newfoundland"; copies of his overheads are attached. He reviewed the recent history of fishing activity in the region and stated:

- The Northwest Atlantic Fisheries Organization (NAFO) was established in 1978 to conserve straddling stocks. Its objective is "to contribute through consultation and cooperation to the optimum utilization, rational management and conservation of the fishery resources of the Convention Area".
- From the perspective of the Government of NL, NAFO is failing to meet its overall objectives.
- As an alternative to the NAFO management regime, DFA is pressing for a conservation-oriented and scientifically-based management regime on the Nose and Tail of the Grand Banks and the Flemish Cap that allows for sustainable fishing and resource rebuilding.
- Custodial management would ensure consistency in the management of straddling stocks.
- Canada, as the coastal state, would assume responsibility for: ensuring conservation and scientifically based management is applied; ensuring consistency in application of measures; and monitoring and surveillance. The historical shares of other nations would be respected.
- The issue is moving forward. A provincial Advisory Council of Foreign Overfishing has been established and a roundtable forum to discuss improvements to the conservation and management of straddling fish stocks off Canada's East Coast will be held in February in St. John's.

Discussion:

Dick MacDougall asked what the new 'regime' could resemble. Tom replied that the solution might involve a combination of NAFO and custodial management, working through the United Nations Fisheries Agreement (UNFA).

George Borgal stated that the United Nations Convention on the Law of the Sea (UNCLOS) is a large lever in the negotiation process re fisheries management.

Geoff Lewis enquired if Canadians fished outside the 200-mile limit. Tom replied that they were allowed but that they fished mainly inside the limit.

Dick MacDougall enquired what was needed for detection purposes. Tom replied that NAFO's detection program was adequate but added that proper action against violations is lacking.

MINISTER'S ADVISORY COUNCIL ON THE OCEANS: Jon Lien briefed participants on the Minister's Advisory Council on the Oceans (MACO), its mandate, history and current activities (<http://www.maco-ccom.ca/>). He reported the following:

- MACO, formed three years ago, has been in operation for one year. It has eight members and 2 ocean ambassadors. MACO is currently undergoing a review.
- MACO members represent NGOs, industry, government and science. The Council's purpose is to assist the Minister and the Department of Fisheries and Oceans to implement the Oceans Strategy by providing independent advice, facilitating liaisons and bringing groups together to discuss issues and to foster the cooperative approach upon which the Oceans Act is based.
- MACO has/is providing advice on a number of significant issues and processes, including Canada's presentation at the World Summit on Sustainable Development held last summer in Johannesburg, South Africa, and ratification by Canada of UNCLOS.
- Other MACO priorities include issues such as seabirds, state of the oceans reporting and indicators, and Oceans Day celebrated on 8 June each year.
- Linkages are being established with other groups, e.g., the federal/provincial Task Force on Oceans, co-chaired by Mike Warren, NL DFA and John Karau, DFO; the Pacific Fisheries Research and Conservation Council (FRCC); and the National Round Table on the Environment and the Economy (NRTEE).

Discussion:

Larry Hildebrand enquired what advice MACO would give to the DFO Minister to ensure that other federal departments and the Provinces become full players in implementing the Oceans Strategy. Jon stated that it was tough to get the Minister to see the necessary linkages and that this would take time. He added that the CCMD study on horizontality provided by Mike Butler had been useful for this process.

Geoff Lewis enquired re Canada's level of interest in ratifying UNCLOS. Jon replied that there currently was not a great push from DFO to ratify UNCLOS. However, the Department of Foreign Affairs and International Trade (DFAIT) has become very interested in light of the planned ratification by the European Union in a couple of years. This may result in a challenge to the UN Straddling Stocks Agreement adopted in 1995.

Joe Arbour asked if MACO had plans to hold discussions with the US Ocean Commission. Jon replied that an international session might be organized, with MACO taking the lead.

Mike Butler asked for more details re the plans for Oceans Day. Jon stated that a tentative theme had been selected: "H2O – Hilltops to Oceans". Efforts will be made to enlighten Canadians throughout the country about the impact that they are having on the oceans.

AERIAL SURVEILLANCE: Derek Scott, Vice President, Surveillance Operations, Provincial Airlines Limited, briefed participants on the aerial surveillance program delivered by Provincial Airlines Limited (PAL) based in St. John's, NL. Derek reported the following:

- Provincial Airlines is a private company. Approximately 70% of its revenue is generated from aerial surveillance and defence contracts.
- The 1st aerial surveillance missions, flown in the early 1980s, monitored ice formation for the oil industry.
- The DFO aerial surveillance program uses state-of-the-art technologies for tracking, monitoring and recording the activities of foreign fishing vessels.

- PAL also carries out pollution surveillance, primarily on the south coast of Newfoundland.
- PAL is evaluating airborne data servers in response to the increasing need for real-time data utilization across several departments.
- Other activities include an evaluation program with the US Coast Guard re a contract for international ice patrolling.
- PAL is monitoring developments with the CGDI, OGC, etc. relative to its services and products to ensure compatibility among the 'stovepipes'.

Discussion:

Geoff Lewis enquired how the implementation of Automatic Identification System (AIS) technology might impact on the aerial surveillance program. Derek replied that the availability of AIS would allow surveillance to refocus on areas currently not monitored regularly. George Borgal added that new data collected by AIS would be used to supplement data from existing sources, including AIS airborne and High Frequency Surface Wave Radar (HFSWR), and using data fusion would create a more complete 'maritime picture'.

10. **ROUNDTABLE REVIEW OF COASTAL ZONE ACTIVITIES and UPDATES ON ACZISC RELATED PROGRAMS**

ALLIANCE FOR MARINE REMOTE SENSING: Bob Chisholm, Executive Director, AMRS, reported the following:

- The Alliance for Marine Remote Sensing was founded in the early 1990s as the Atlantic Centre for Remote Sensing of the Oceans to provide computing resources and technical support to small and medium size companies entering the industry. By the mid 1990s, local industry had limited need for these services so the organization started producing various industry-related publications. By 2000, international membership had grown to 800 from 40 countries and the name was changed to the Alliance for Marine Remote Sensing to reflect the membership.
- Present operations:
 - Publish the industry magazine "Backscatter" three times a year; the next issue on inland waters is being finalized.
 - Maintain and update weekly an industry news website at <http://www.waterobserver.com>.
 - Produce posters illustrating aquatic applications of satellite and airborne sensors
 - Organize international conferences on topics pertinent to the industry; currently the AMRS is preparing for the next conference to be held on 4-6 June in New Orleans - Hyperspectral Issues in the Coastal Zone. The event is being held in conjunction with Oceanology International Americas 2003.
 - Participate on the advisory committee to the Canadian Space Agency Earth Observation Division
 - Rejuvenate working relationships with the International Ocean Colour Coordinating Group and the Canadian Centre for Remote Sensing
 - Investigate participation in the Coastal Zone 2004 conference in St. John's.

NATURAL RESOURCES CANADA: Dolores Durant reported the following on behalf of Cameron Wilson, GeoConnections:

- Access: Partnerships are being developed with:
 - NS: Architecture blueprint and Metadata;
 - BC: Geography Mark-up Language (GML)-based file transfer, Metadata Catalogue, and BC-COIN (Co-operative Ocean Information Network) feasibility study
 - ON: WMS (web mapping services), and WFS (web features services)
 - Canadian Information System for the Environment (CISE): Air Quality Index Service, Water Quality Index Service, and Wetlands Framework
 - DFO: GeoPortal, and BIO preliminary technical proof of concept and blueprint to publish various data holdings

- Framework / GeoBase status:
 - Ocean Framework Data Development Project: The objective of this project is to make bathymetric information available for Canada's national territorial seas and to provide a seaward extension of the existing dry land topographic framework elevation data. The Canadian Hydrographic Service is the lead on this project.
 - The Canadian Hydrographic Service (CHS), as represented by Dave Pugh, has agreed to be the Coordinating Agency for GeoConnections for Marine applications. In this role, CHS will be providing advice regarding marine geospatial data infrastructure programs and policies and providing project managers with recommendations regarding the risks, opportunities and challenges in providing marine data for the Canadian Geospatial Data Infrastructure (CGDI).
- GeoInnovations RFP status:
 - Twelve 2001 projects are either completed or are in final stages. Participating Atlantic Canadian companies include CARIS, and EOA Scientific.
 - The 2002 RFP to solicit technologies that support the implementation of a standards-based CGDI closed on January 20. Evaluations are underway to be followed by contract negotiations. Projects should commence in May.
 - The Communities of Practice Announcement of Opportunity (applications built on CGDI services, which complement the Public Agency Content and Connectivity Program) should be released soon.
- The GeoTec Conference, scheduled for 16-19 March 2003 in Vancouver, will feature several CGDI presentations and workshops. For information, access <http://www.geoplace.com/GeoTec/welcome.htm>.
- NRCan Earth Science Sector: The Sector is aligning Science and Technology programs to Government of Canada issues.

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

- The NRCan Earth Science Sector (ESS) Business Plan is available online at http://nrcan.gc.ca/ess/esst_plan_2002_2005_e.pdf
- Several ESS Programs are scheduled to start in 2003:
 - Geoscience for Ocean Management: Gulf of Maine, Eastern Scotian Shelf, Grand Banks, Bras d'Or Lakes, Argientia (metal contaminated sediments and mine waste)
 - Climate Change Coastal Monitoring: C-CAIRN, municipalities and other government departments
 - Consolidating Canada's Geoscience Knowledge: Five IM projects in collaboration with provinces and territories through CGKN (Canadian Geoscience Knowledge Network)
 - Sustainable Development through Knowledge Integration: earth resource information interoperable with decision-making.
 - Connecting Canadians
- A project for the Bouctouche area, similar to the PEI climate change project, will start this spring. It includes an adaptation component under Sue Nichols at the University of New Brunswick. The Canadian Wildlife Service and the Université de Moncton will focus on the ecosystem component. The NB Department of Natural Resources will play a large role via its coastal hazard/erosion work.
- A joint monitoring program is being established in Saglek Bay, Labrador to monitor PCB contaminants in the marine environment.
- The CoastWEB website has been revised to meet the 'common look and feel requirements' of the federal government. The CoastWEB Contributor, a new feature of the website, is used to collect the public's comments and concerns re the coast. The CoastWEB URL is http://gsca.nrcan.gc.ca/coastweb/index_e.php.
- Paul Fraser, former CoGS student and participant in NRCan's Geomatics Professional Development Program (GPDP), is revamping the Coastal Information System. (For information on the GPDP, access <http://www.nrcan.gc.ca/ess/masd-dsga/gpdp/>.)

GOVERNMENT OF NOVA SCOTIA: Ed Light, Service Nova Scotia and Municipal Relations, reported the following:

- Service Nova Scotia and Municipal Relations (SNS&MR):

- GeoBase: NS has been working with NRCan in an effort to establish GeoBase, a freely available, nation-wide topographic representation. NS has put forward its hydrological data as a test dataset for GeoBase. Funding and long-term viability issues are now being discussed amongst federal agencies and the Provinces.
- GeoConnections: SNS&MR is presently working with GeoConnections on two projects. The 1st relates to developing an architecture and plan for a future GeoNOVA Portal. The RFP for this work will soon be available with June 2003 as the target date for completion of the architecture design and implementation plan. The 2nd project relates to the development of a Data Discovery Service. Under this project the Government of NS will continue to document its metadata holdings at both the collection and product levels and will make that metadata accessible via both the GeoConnections Discovery Portal and the future GeoNOVA Portal. This metadata work is seen to be the foundation upon which the success of the GeoNOVA Portal rests.
- Data Warehouse Project: The GIS Data Warehouse Pilot Project was jointly undertaken by the NS Department of Transportation and Public Works (TPW) and SNS&MR. This pilot project investigated the creation of a central repository for source data sets, the intent being that the central database would be available to source data providers to apply their thematic content in relation to their work programs and then return the data for others to access. During the pilot TPW also investigated internal tools and applications that would assist them in carrying out program work and meeting the needs of a data warehouse. The Data Warehouse pilot project was completed in November 2002. Project planning for the 2nd phase, a combined GIS-Transportation/Data Warehouse/Network Management System (NMS) project is nearing completion and is expected to begin during 2003/04.
- Coastal Mapping: The Coastal Series is a set of 132 maps at a 1:50,000 display scale covering the Province of NS and near shore areas to the twelve-mile limit. Each map consists of two layers, a land and a water layer. The land layer is derived from the 1:10 000 provincial map series and includes contours. The forest cover is derived from the Department of Natural Resources forestry maps and a new "name" layer was created specifically for this series. The water layer is derived from CHS bathymetric data at various scales, levels of topology and digitizing conventions. The two layers, land and water, are combined to create the new series which uses the provincial representation of the high water line as the interface between the layers. The series is based on the UTM zone 20 coordinate system, NAD83 datum, and has consistent scale and topology across NS. The Province is in continued discussions with NDI on digital data distribution; however, the negotiations are currently at a stand still.
- Projections and Datums: NS is presently conducting a "Coordinate Reference System Policy Review". The RFP has been awarded and the review is targeted for completion by 31 March 2003. This work will review the policy issues, concerns, impacts, etc in establishing an official Datum and Map Projection. It is anticipated that should standardizing on a datum and map projection ensue legislation will need to be written / amended.
- GeoNOVA: SNS&MR is developing the new governance model to carry GeoNOVA into the next five years based upon the completed Strategic Review (available at <http://www.gov.ns.ca/SNS&MR/land/strategy/>). SNS&MR has been meeting with GeoConnections re funding proposals to help GeoNOVA meet its new target of making all geographic data accessible from the desktop in five years. The development of a GeoNOVA Portal makes up a major part of that new goal.
- Canadian Geomatics Accord: Under the Accord, NS has signed an agreement with NRCan's Land Surveys Division (LSD) regarding the establishment of a common geometric representation for Canada Lands' administrative boundaries. LSD wishes to access NS's data in preparing the representative boundaries and in turn return the resulting "final" versions for incorporation into its topographic and property databases.
- Geographical Names: The NS Geographical Names Program helps ensure the application of uniform standards to geographical names throughout the Province. During the past two years all centroid coordinates for community and lake features have been converted from NAD27 to NAD83 values. Name origins and locations for several hundred offshore features have been researched and incorporated into the recently produced NS

Coastal Mapping Series. A provincial on-line Gazetteer is in the final stages of being developed. This product will offer, free of charge, several fields of geographical name information supported by high quality maps.

- Department of Community Services: In the summer of 2002 the Department implemented a pilot project to introduce the use of GIS in a non-traditional environment. The initial phase of the project was designed to assist in the decision making process related to the provision of childcare services within the Province. The success of the initial phase led to the expansion of the use of GIS into other divisions with the intention of generating a more comprehensive model for analyzing the services provided by the department. Program information related to housing, income, employment, children and families is being integrated into one complete system to enable personnel in the department to be better equipped to meet the needs of the individuals who require assistance.
- Department of Environment and Labour: The Department is currently using GIS to create a province-wide watershed thematic layer. This watershed layer will be delineated to a sub tertiary level and will be based on a 1:10,000 dataset. Other GIS projects include: protected water areas layer (legal boundaries of municipal water supplies province wide); irrigation withdrawal points in the Annapolis Valley; municipal water supply locations; private well locations (integrated with the provincial well logs database); hydrometric station locations; school locations; provincial uranium and arsenic mapping; and sewage treatment plant locations.
- Department of Tourism and Culture: The Department is introducing GIS technology as a methodology to model tourism value (economic and social) within NS. A model for a geographically referenced tourism value database is under development. This work is being carried out in conjunction with the Province's Integrated Resource Management within the Department of Natural Resources (DNR). The Mulgrave Plateau is the pilot area.
- Department of Natural Resources: The Provincial Crown Land Records Centre (PCLRC) is in the process of moving from a conventional paper world to a digital environment. New staff and equipment have been put in place to manage the conversion process that is planned for the next three years. The goal is to make much of the PCLRC's information available to customers via the Internet. This will permit staff to offer improved research services, increase efficiencies in data management and enhance the disaster management and security provisions for protection of the PCLRC's records.

Justin Huston, Agriculture and Fisheries, added the following:

- "Living on the Edge", a Coastal Planning Forum co-hosted by the Dalhousie School of Planning and the Halifax Regional Municipality (HRM), is scheduled for 18-19 March 2003 at Pier 21 in Halifax. The focus will be on HRM, both urban and rural. The event is open to the public. For more details, email: Dorothy Leslie at the Dalhousie School of Planning (Dorothy.Leslie@dal.ca). Mike Butler added that he has been asked to make a presentation summarizing the five coastal/marine economic studies: NB, NL, NS, PEI and QC.
- The Economic Development Advisory Group has developed a new policy for the Province for rural communities. A new strategy will be released early fall to winter.

FISHERIES AND OCEANS CANADA: Tim Anderson, Oceans and Environment Branch, DFO NL, reported the following:

- The name of the DFO Newfoundland Region has changed to Newfoundland and Labrador Region.
- Meetings were held in December with WWF who are raising the issues of oiled seabirds on the south coast of NF and the need for ecosystem-based management on the Grand Banks. A workshop on these issues in St. John's is being planned for February 2003.
- A community-based coastal inventory project has been initiated for the Lake Melville area of Central Labrador. The project is funded by EC, HRDC and DFO and sponsored by the Central Labrador Economic Corporation. The Steering Committee includes representatives of the Labrador Inuit Association and Innu Nation.
- Integrated management work is continuing for the Bay d'Espoir South Coast area, sponsored by the Coast of Bays Corporation. Initial consultations have been completed.

- Positive feedback has been received. A proposal for the next phase is being completed.
- In conjunction with the Town Council, consultations on integrated management are planned for the Conception Bay South area in February/March 2003.
- In Bay of Islands, DFO is involved in a demonstration project of a practical application involving marine environmental quality. A working group has been formed which includes EC, DFO, ACAP, provincial Environment and Inland Fisheries and Wildlife. Public meetings were held in the communities of York Harbour and Lark Harbour. An objective has been established to restore the quality of the local marine environment to a clean and healthy state supporting fisheries and tourism. Presently shellfish harvesting in the area is prohibited due to poor water quality. Water and sediment samples have been collected and analyzed and point sources of pollution identified. ACAP, in consultation with the Working Group, is working with the communities to develop a proposal to sponsor a Green team to plant appropriate vegetation and conduct other activities to improve water quality.
- A vast amount of data and information has been collected for the Community-based Coastal Resource Inventories (CCRI). A pilot project to produce a demo, web-based map server application was completed in July 2002. A letter of intent has been submitted to GeoConnections to support the implementation of the map server application. Resulting discussions have focused on disseminating the data through GeoGratis. As a result, sample data has been made available through DFO's GeoPortal demo site. Issues such as translation, common look and feel, etc. are also under discussion.
- Recommendations regarding the designation of two MPA sites (Gilbert Bay/Eastport) have been submitted to the DFO Minister's office in Ottawa. A multibeam survey was conducted in Gilbert Bay in October 2002.

John Legault, Oceans, DFO Gulf Region, reported the following:

- The Basin Head proposal for MPA designation is well advanced in the evaluation process. The regulations have been signed off by the RDG and are now with Legislature and Regulatory Affairs for review and translation before being sent to the Department of Justice.
- There is a departmental data management initiative within the Fisheries Management Branch called the Fisheries Integrated Management Project (FIMP). The Gulf Region has been developing a project related to integrated data management bringing data from various sources together for fisheries management issues - vessel hauls, landings, licensing and conditions, closures and variance orders. The purpose of the project is to bring together the data as near to real-time as possible. The project is being piloted for the snow crab fishery in Area 19.
- The Gulf Region - Antigonish Office is holding an Integrated Management Workshop to bring stakeholders together to discuss the concept of integrated management, coastal management areas and ecosystem-based management. This workshop is to be held on 9 April at St. Francis Xavier University. Contact Ray MacIsaac for details at tel 902-863-5670.
- After a year and a half of negotiations, DFO has received all of the NRCAN NTDB data for Canada at 1:50,000 and 1:250,000 resolution. These maps are licensed for the entire Department to use freely within DFO. Technical glitches in transferring the data have delayed the exchange of data. The maps are being delivered to the regions through the GeoPortal of CHS.
- DFO is trying to negotiate a purchasing agreement with Nautical Data International to have the same access to the Nautical Charts.

Joe Arbour, Oceans and Environment Branch, DFO Maritimes Region, reported the following:

- A project spawned by oil exploration on the Scotian Shelf will focus on monitoring the effects of seismic activity. The project is being developed in collaboration with a number of partners; the Province of NS is making a significant contribution. A proposal is being developed for submission to the ESRF industry fund.
- The proposed Gully MPA designation is in the final stage of approval. Regulations have been submitted and public consultations will be held. There has been strong support from the stakeholders. An announcement may be made in June. The case has been a good test

- of the MPA regulatory language.
- The 2nd Eastern Scotian Shelf Integrated Management (ESSIM) Forum Workshop will be held on Tuesday and Wednesday, 18-19 February 2003, at Mount Saint Vincent University in Halifax. The focus of the Workshop is the discussion paper "A Strategic Planning Framework for the Eastern Scotian Shelf Ocean Management Plan", a strawdog re Integrated management on the Scotia Shelf. Over 100 participants are expected.
- An Integrated Management plan is being developed for the Bras d'Or Lakes coastal management area. First Nations chiefs are working with the departments and providing strong leadership re this initiative.
- An Integrated Management plan is in the early stages of development for the Minas Basin. A series of grass roots fora are being held in cooperation with the Bay of Fundy Ecosystem Partnership (BoFEP) and others.
- The Minas Basin fora will contribute to a major 'Summit' in 2004 planned by the Global Program of Action Coalition (GPAC) for the Gulf of Maine in partnership with the Gulf of Maine Council on the Marine Environment. Other fora will be held throughout the region. The goal is to do an assessment of the state of watersheds 'from the ground up' for the Gulf of Maine – both Canadian and U.S – and produce a state of the Gulf report. This initiative is being carried out.
- Draft Marine Environmental Quality (MEQ) objectives will be prepared in concert with the MEQ aspect of the ESSIM project.
- The Significant Habitats Atlantic Coast Initiative (SHACI) is underway with the Sydney Bight project; Dave Duggan is the lead (duggand@mar.dfo-mpo.gc.ca).
- DFO Science and Oceans and the Geological Survey of Canada Atlantic are collaborating on a project re benthic classification for the Scotia Fundy region. A workshop will be held to review existing benthic classification schemes.

Dick MacDougall, Canadian Hydrographic Service, reported the following:

- Since September, the Canadian Hydrographic Service (CHS) has conducted hydrographic surveys in the Manvers Run area of Labrador, in the proposed MPA of Gilberts Bay, Labrador and in Bras d'Or Lakes in support of the Study for Integrated Management of Bras d'Or Lakes (SIMBOL) Project. CHS is also participating in a Scotian Shelf habitat project with DFO Oceans and NRCan.
- CHS efforts in the past year has been concentrated on referencing old charts to the North American Datum 1983 which allows the charts to be used directly with the Global Positioning System (GPS). More than 100 of 287 charts in Atlantic Canada will be referenced to GPS.
- CHS is in the final stages of an Alternate Service Delivery study with a report due to go to the Departmental Management Committee (DMC) this spring. The study looked at host department, governance models (Agency, Status Quo, Modified Status Quo, and different reporting relationships) as well as consolidation options and analysing the gap in resources between where CHS wants to be and where CHS is now.
- In parallel, CHS is a part of the DFO "Departmental Assessment and Alignment Project ". CHS was reviewed as part of the Marine Safety cluster, along with Coast Guard and Small Craft Harbours, and as part of the Science Sector. This process has been expanded to cover the whole Department. The internal review of resource realignment is seen as a prerequisite for asking for more resources from Treasury Board.
- The CHS mandate has three legs or pillars: mariner transportation, seabed mapping of oceans and inland waters, and security/sovereignty. CHS has prioritized its chart products and identified about 30% that are considered category A, *i.e.* they support major ports and transportation routes. With the present resources, CHS can maintain only 1/3 of these priority charts or 10% of the overall suite of charts on a 5-year revision cycle. This "gap" has been presented to the DMC of DFO and, while some sympathy was engendered, CHS was instructed to try and reduce the gap through internal CHS realignment. CHS is presently classifying its charts to identify which will be in the 10% group maintained on a 5-year cycle to address the greatest risk. CHS is also exploring if there would be savings if the chart distribution system was privatized.

- Since the highest risk to large numbers of lives or the environment is not posed by accidents of recreational or fishing vessels, areas that are used predominately for these purposes will not rate 'high'. To address this CHS hopes that the private sector will see an opportunity to develop products for these markets. However, in order to make data and products available for value-added producers, CHS needs relief from the revenue targets set by Treasury Board. CHS is presently seeking that relief.
- CHS has also initiated discussions with its digital data distributor, Nautical Data International Inc., concerning making certain framework-type data more freely available for non-commercial purposes. If data is freely available, *i.e.* free at certain levels of resolution and available for a reasonable cost at other levels, the production of value-added products will increase. NDI had sole right to distribute CHS data until 2008. If NDI meets performance criteria, the agreement is automatically renewed to 2013. He asked that members contact him re any issues concerned with access to CHS data.

ACTION 38.22: Participants to contact Dick MacDougall, Canadian Hydrographic Service (macdougallr@mar.dfo-mpo.gc.ca) if they are experiencing difficulties acquiring CHS data

NATIONAL DEFENCE: Cdr George Borgal, TRINITY JOSIC, reported the following:

- Surveillance Update:
 - Recognized Maritime Picture (RMP) Improvements: Agreement has been reached with DFO NL for increased geospatial and information data exchange. The data will be added to the RMP to enhance near time credibility and returned as a service to regional federal department members through CANMARNET.
 - Automatic Identification System: The AIS implementation schedule is being advanced to 2004 by the International Maritime Organization (IMO); this is supported by Canada. The potential for airborne AIS relays to augment the land-based VHF system has been raised for federal consideration.
 - DFO/DND Information Exchange: A quadripartite arrangement has been agreed between DND (MARLANT/TRINITY) and DFO members (NL, Maritimes and Gulf) to ensure geospatial policy and operations decisions are exchanged and maintained up to date through agreed points of contact.
- CANMARNET Status:
 - Establishment of a CANMARNET Users' Group: Since the last ACZISC meeting in September, two CANMARNET Workshops have been conducted with regional federal government partners, and agreement has been reached to initiate a CANMARNET Users' Group, which will be responsible for the care and maintenance of the network. The inaugural meeting will be held on 5 March, and the working relationships will be horizontal in the same pattern as ACZISC. There continues to be a challenge in determining who the most appropriate departmental representatives should be.
 - ACZISC Information on CANMARNET: A site can be maintained in the CANMARNET system for ACZISC. The Secretariat would be responsible for providing and updating the currency of the information pages. If agreeable, this site could be part of a CANMARNET demo at the next ACZISC meeting.
 - National CANMARNET: A project has been funded by the Interdepartmental Maritime Security Working Group to define a national requirement for a CANMARNET-like system that will allow web-based secret level connectivity amongst all federal maritime partners.
- Operations Updates of Interest: A side-scan survey is being planned for St. John's Harbour and approaches, with no date yet determined.
- DND Membership on the ACZISC: Warrant Officer Mark Peters, responsible for civil maritime surveillance analysis in MARLANT/TRINITY, was introduced and will be available as an alternate point of contact for information exchange between DND and ACZISC members. His contact information is: tel 902-427-0550, ext 2390; and email peters.mp@forces.gc.ca.

ENVIRONMENT CANADA: Larry Hildebrand, Sustainable Communities and Ecosystems Division, reported the following:

- The Atlantic Coastal Action Program (ACAP) has been extended for another five years; the Program recently celebrated its 10th anniversary. The 14 ACAP organizations throughout Atlantic Canada are multi-stakeholder organizations that build diverse partnerships and lever resources from many sources, including DFO. Two of the sites are located in NF: St. John's and Humber Arm. Efforts are being made to identify a site in Labrador.
- The Species at Risk Act (SARA) has received Royal Assent. The Act will have significant implications for EC, DFO, provincial agencies and private landowners. Efforts are being made to identify species, recovery plans and management plans.
- Baseline 2000, initially produced for the Coastal Zone Canada Association in conjunction with the CZC 2000 Conference held in Saint John, NB, includes an inventory of ICM efforts in Canada. Baseline 2000 is currently being updated; it contains many provincial initiatives. Interest is being sought re creating a 'community of practice', including a mailing list, a searchable database, etc. A Task Group (Secretariat, Leslie Grattan, Joe Arbour, Larry Hildebrand, Justin Huston and Cameron Wilson) agreed to review the possibility of developing an 'ICM community of practice' in Atlantic Canada and to identify appropriate tools to assist with this process.

ACTION 38.23: Task Group to discuss by 1 March 2003 the possibility of creating an "ICM community of practice" in Atlantic Canada

Larry provided updates on behalf of the Meteorological Service of Canada (MSC):

- Lunenburg Multidisciplinary Environmental Prediction Project (Garry Pearson):
 - A decision on project funding by the Canadian Foundation for Climate and Atmospheric Science should be made within 6-8 weeks. A site visit is planned in early February.
 - Oceanographic and atmospheric data collection and archiving is in place.
 - A project manager for the Centre for Marine Environmental Prediction will be identified from the MSC.
 - A seminar on progress to date was presented at Dalhousie University recently by Dr. Alex Hay.
- NB Sea Level Rise Project (John Parker):
 - A decision on project funding by the Climate Change Action Fund (CCAF) should be made in early February.
 - Presentations are being made to NB Government officials seeking funding support for the project.
 - Other funding sources are needed. Potential sources include Office of Critical Infrastructure Protection and Emergency Preparedness (OCIEPEP) and the Institute for Catastrophic Loss Reduction (ICLR).
 - LIDAR data acquisition has been delayed from November 2002 until the spring.
- Atlantic Environmental Science Network (AESN) Climate Change Cooperative (Gary Lines):
 - The Climate Change Cooperative (CCC) met on 14 January to discuss a collaborative proposal in response to a request for proposals by the AESN Board. A draft framework for the proposal was agreed upon focusing on developing knowledge of climate change in Atlantic Canada. The proposed title is "Characterization of the Climate and Environmental State in Atlantic Canada in Preparation for Future Climate Change".
 - Individual projects may be introduced as sub-projects.
 - A consultant will be hired to write the proposal for submission to a number of funding agencies. It will be delivered to the AESN Board by 31 March.
- Kyoto Implementation (Gary Lines):
 - The Climate Change Plan for Canada was released on 21 November 2002. It provides details on the 3-step plan to tackle greenhouse gas reductions in Canada.

- Part of the Plan is the negotiation of target reduction covenants with major companies in the “large emitter” sector. Techniques for achieving the target will include emissions trading.
- Another part is the “One-Tonne Challenge” which challenges each individual Canadian to reduce their emissions by one tonne for the reporting period (2008-2012).
- Paul Fauteux, Director of the Climate Change Bureau, will be meeting with Regional Directors General over the next several weeks to discuss the role that regional offices will have in implementing the many aspects of the Plan, including provincial agreements.

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR: Leslie Grattan, Environmental Planning and Management Projects, reported the following:

- The Province has focused attention on oil spill protection and preparedness. Discussions are taking place with DFO and EC. A delegation of government and industry representatives recently travelled to Spain to meet with Spanish government and response personnel re their experience with the Prestige incident and oil spill.
- Development of the Placentia Bay Integrated Management Plan is ongoing. The Regional Development Board has been contacted.
- Foreign overfishing remains a concern for the Province. DFO Minister Thibault has organized a private discussion session mid-February to discuss custodial management.
- Jon Lien will be organizing a joint MACO/OMRN public forum on 20 February.
- The Province is considering UNCLOS. A meeting of representatives from several provincial departments, DFO and DFAIT has taken place. Discussions will continue.
- The Province is eager to see the Oceans Strategy regain profile. Mike Warren, Director of Planning Services, Fisheries and Aquaculture, co-chairs the Ocean Task Group of the Canadian Council of Fisheries and Aquaculture Ministers with John Karau, DFO Ottawa. The Task Group will be preparing a State of the Oceans report.

Neil MacNaughton, Government Services and Lands, reported on ongoing projects:

- Administrative Boundaries: Town boundaries, etc. are being mapped and will be made available on the web. Quality control of the Québec/Labrador legal boundary will soon be completed.
- Provincial version of GeoBase: The project involves connecting and sharing geospatial data in NL, including automating the ordering and delivery functions.
- 1:10,000 Orthophoto Base for the Province: Efforts are being made to identify funds and partners for this province-wide initiative.

PARKS CANADA: Rob Thompson, Atlantic Service Centre, reported the following:

- SAMPAA V, the 5th International Conference on Science and the Management of Protected Areas, will take place on 11-16 May 2003 in Victoria, BC. SAMPAA will have a strong marine focus – science, research, ecosystems, etc. Of the 200 abstracts submitted, about one third relate to marine issues. Parks Canada is involved with many other partners in organizing the Conference. For information, access <http://www.sampaa.org/>
- Under its legislation, Parks Canada must prepare a “State of Protected Heritage Areas Report”. Two have been completed and a third is under way. The reports cover national parks, national historic sites and national marine conservation areas. The completed reports are available from the Parks Canada library website at http://www2.parksCanada.gc.ca/library/DownloadDocuments/documents_e.htm.

INDUSTRY CANADA: Geoff Lewis, Energy and Marine Branch, reported that the Ocean Sector was gaining profile in Industry Canada:

- The series of Marine and Ocean Technology Road Map workshops has been completed. An interactive website will be available soon. Annual meetings will be convened.
- Innovation Strategy consultations held last summer included two Ocean Sector committees. The east coast committee was chaired by Judith Whittick of C-CORE. Reports are available on the website at <http://www.innovationstrategy.gc.ca>. An Action Plan will be developed this year.

- A Minister's Advisory Committee on Shipbuilding and Industrial Marine has been formed; it had its first meeting on 21 January 2003.
- International Business Development activities include participation in tradeshow and conferences such as Oceans & Oceanology International.

RCMP: Gary Frail, Coastal Watch Program, reported that four additional staff positions had been added to the Program from internal resources. They will be focusing on border enforcement. The agency is continuing to develop partnerships to improve early detection.

PRIVATE SECTOR / CHAMPLAIN INC: Mike Butler reported the following on behalf of Norval Collins:

- Current funding for the Champlain Institute will cease at the end of March 2003. Funds are being sought from ACOA.
- Brent Rowley has resigned from Champlain Institute.
- The NS Climate Change Network, consisting of consulting companies, including CFI, Dillon, etc, has submitted a proposal to incorporate climate change in the Environmental Impact Assessment process.

GOVERNMENT OF NEW BRUNSWICK: On behalf of Dave Finley, Service New Brunswick, Mike Butler reported that topographic base mapping focused on six major areas of activity during the past year:

- **Orthophotos Production:** The multi-year initiative to complete digital softcopy orthophoto coverage of the Province continued in 2002-03. Work included completion of the aerial photography as well as continued aerial triangulation compilation and orthophoto production.
- **Civic Addressing:** A georeferenced civic address database was created last year whereby the civic address is linked to the land parcel and assumes the parcel label position as its georeferenced position. Work continues in identifying an organization(s) to be responsible for the database and its maintenance.
- **Administrative Boundaries:** Background research, user needs analysis, technical specifications and a maintenance strategy have been completed. Twenty-five layers of administrative areas have been identified as priorities and investigations have centred on these layers. The project is preparing to move into production and quality control of the database.
- **Digital Terrain Model Files:** The 1894 provincial 1:10,000 DTM files have been improved through a process used for minimizing ridging artefacts in the original files. This problem was a result of the photogrammetric compilation process.
- **Provincial Contour Layer:** There has been some interest in producing a provincial contour layer as a supplementary product to the DTM files, especially for those organizations without the specialized software required to generate contours from the DTM files. Investigations into options for producing a generalized provincial contour layer were carried out in 2002-03. The next stage will be production and quality control.
- **Partnerships:** Significant time was invested in building relationships and identifying partnership opportunities of interest to New Brunswick. Work continues in this area.

UPDATES ON ACZISC RELATED PROGRAMS

COASTAL ZONE CANADA 2004 CONFERENCE: Tim Anderson and Leslie Grattan reported that CZC 2004 would be held from 27-30 June 2004 at the Conference Centre in St. John's, NL. The organizing committee, chaired by Grant Gardner, Memorial University, includes Leslie Grattan, Tim Anderson, Jon Lien and Keith Mercer. A financial sub-committee will be formed to seek financial support for the Conference.

The draft perspective and draft program were circulated. A call for papers and posters will be issued in June. Feedback on the draft program was requested from the participants.

ACTION 38.24: *Participants to provide comments and proposed additions by 28 February 2003 to the CZC 2004 Program chair, Keith Mercer (keith.mercer@mi.mun.ca) re the provisional list of sub-themes for the program*

COASTAL/MARINE ECONOMIC STUDIES: Mike Butler reported that the Province of Québec had published a report entitled “Economic Evaluation of Industries Associated with the Marine Sector in Québec”. The report concludes that the total impacts of the marine sector in the Province exceeded \$1.6 billion in 1998. The report includes several recommendations for improving future studies, including indicators. The QC report and the studies carried out for NB, NB, NL and PEI are all available via the documents section of the ACZISC website at <http://www.dal.ca/aczisc/docs.htm#ECON>

OCEAN MANAGEMENT RESEARCH NETWORK: Mike Butler stated that the OMRN had been established by DFO and SSHRC to engage social scientists with other disciplines in ocean management. The OMRN currently has three nodes: Science and Local Knowledge – led by Alison Gill (agill@sfu.ca); Integrated Management – led by Fikret Berkes (berkes@ms.umanitoba.ca); and Sustainability – led by Peter Sinclair (peters@mun.ca). Nodes are being established for MPAs and Ocean Governance. For information, access <http://www.omrn.ca>

The 1st national OMRN conference entitled “Canada’s Oceans: Research, Management and the Human Dimension” was held in October 2002 at the University of Ottawa. The Conference was well attended with approximately 200 participants. A 2nd conference is planned for 12-15 November 2003, also in Ottawa.

Tim Anderson reported that a workshop is being planned under the “Linking Science and Local Knowledge” Research Node of the OMRN. The workshop is planned for Change Islands in August 2003. The draft title is “Vulnerability in Coastal Communities: Adaptations to Change and Planning for the Future”. More information will be provided when it becomes available.

SOUTHERN GULF OF ST. LAWRENCE COALITION ON SUSTAINABILITY: Larry Hildebrand reported that the 2003 AGM of the Southern Gulf of St. Lawrence Coalition on Sustainability would be held on 11-12 April 2003 at St. Francis-Xavier University in Antigonish, Nova Scotia. A Call for Posters has been issued for the Conference. For information, email Mathieu David Vautour, the Coalition Coordinator at vautoumd@umoncton.ca

11. **ANNOUNCEMENTS**

Andy Sherin announced that CoastGIS 2003, the 5th International Symposium on GIS and Computer Cartography for Coastal Zone Management, would be held in Genoa, Italy on 16-18 October 2003. **1 March 2003 is the deadline for submitting abstracts.** The themes are: Technology, Data and Data Infrastructures; and Application Fields and ICZM Education. For information, access <http://www.gisig.it/coastgis/>. Andy suggested that participants consider submitting an abstract.

ACTION 38.25: *Participants to consider submitting abstracts to CoastGIS, scheduled for 16-18 October 2003 in Genoa, Italy*

12. **OTHER BUSINESS**

No new business was discussed.

13. **ADJOURNMENT**

ACZISC Meeting #38 adjourned at 1500 hrs on Thursday, 30 January 2003.