

# **COASTAL ACTIVITIES IN ATLANTIC CANADA**

## **Presentations and Roundtable**

### **ACZISC Meeting #61**

**Date:** Thursday, 7 October 2010

**Location:** Holland Grove Room, Main Floor

**Inn on the Hill, 150 Euston Street, Charlottetown, PEI**

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#### **PARTICIPANTS** (<sup>1</sup> ACZISC member; <sup>2</sup> Advisory Committee member; <sup>3</sup> Director, ACZISC Association)

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***PLEASE NOTE: “Coastal Activities in Atlantic Canada”  
is a subset of the Minutes of ACZISC Meeting #61,  
held on 7 October 2010 in Charlottetown, PEI.***

***To download the Minutes and Coastal Activity reports  
of previous ACZISC meetings, access the ACZISC website at  
<http://aczisc.dal.ca/docs-ACZISC.htm>.***

# ***COASTAL ACTIVITIES IN ATLANTIC CANADA***

## ***PRESENTATIONS***

- **Agriculture Best Management Practices (BMPs) in Atlantic Canada** by Rollin Andrew, Agriculture and Agri-Food Canada
- **The Watershed Management Program in PEI** by Sean Ledgerwood, PEI Dept of Environment, Energy and Forestry
- **Public Perceptions of the Coast: Feedback on the State of the NS Coast Report** by Sean Weseloh McKeane, NS Fisheries and Aquaculture

Presentations are posted online at <http://aczisc.dal.ca/docs-ACZISC.htm>.

## ***ROUNDTABLE REVIEW OF COASTAL ACTIVITIES and UPDATES ON ACZISC RELATED PROGRAMS***

**COASTAL ZONE CANADA 2010:** Grant Gardiner, President of the Coastal Zone Canada Association (CZCA), gave a report on the CZC Conference 2010, held 25-29 July 2010 in Charlottetown, PEI:

- There were a total of about 300 participants, including some international participants.
- The conference included a strong youth forum, which preceded the main conference.
- The ACZISC Secretariat contributed substantially to the work required to make the conference a success.
- The CZCA is now working to promote the Charlottetown Declaration - [http://www.czca-azcc.org/docs/CD\\_CZC2010.pdf](http://www.czca-azcc.org/docs/CD_CZC2010.pdf). Recently there was an Op-Ed in the Hill Times regarding the Charlottetown Declaration. There is a desire to build on the momentum gained at the Conference.
- There were several participants at the Conference associated with the US Coastal Zone 2011 Conference (17-21 July 2011, Chicago, Illinois - <http://www.doi.gov/initiatives/CZ11/index.htm>). These participants are interested in maintaining the connections that they made in Charlottetown and having the CZCA participate in CZ 2011.
- The final financial numbers have not been completed but a deficit is not anticipated.
- The next CZC Conference is: Coastal Zone Canada 2012: Oceans and Integrated Coastal Zone Management - Time for Action, Rimouski, Québec, 10-15 June 2012 – for information, email [Gilles.H.Tremblay@dfo-mpo.gc.ca](mailto:Gilles.H.Tremblay@dfo-mpo.gc.ca).
- The CZCA awarded the ACZISC the HB Nicholls Award for Coastal Zone Management.

Comments from those in attendance at CZC 2010:

- **Sean Wesloh McKeane:** Thought it was great conference, social networking was a very good addition and should be supported and enhanced in the future.
- **Michael Butler:** The Conference planning was a challenge. It really is necessary to

start planning and looking for funds two years in advance. The lack of CIDA funding severely limited overseas participation.

- **Paul Boudreau:** Would like to see social networking continue and grow, however it is a challenge.

**GOVERNMENT OF NEWFOUNDLAND AND LABRADOR:** Bobbi Smith, Department of Fisheries and Aquaculture (DFA), reported the following:

- The Province was involved in many of the ICOM initiatives as described by Blair Thorne DFO-NL (below). In addition, in the Bay of Islands Coastal Management Area, a coastal lecture series will be held in Corner Brook. Topics include:
  - The Marine Institute's School of Ocean Technology – the new kid on the block in applied ocean research October 7, 2010;
  - Step Zero to Fisheries Closures in Western Newfoundland November 2, 2010 and November 30, 2010; and
  - The Skeptical Fisherman - consequences of dismissing fishermen and their qualitative observations using the history of the Newfoundland cod fishery as an exemplar.
- In regards to MPAs, DFO launched its Oceans Portal on Oceans Day June 8, 2010, which includes an interactive map of all Canada's Federal, Provincial and Territorial MPAs.
- World Ocean Day 2010 was a huge success. DFA organized a Craft Corner at the DFO-NL White Hills Event, where children and parents created a number of craft sea creatures. DFA also organized a province-wide art contest in conjunction with DFO, EC, PCA, CPAWS-NL, WWF and FFAW. Contest winners can be found on the DFA website <http://www.fishaq.gov.nl.ca/education/kids.html>.
- DFA and Environment and Conservation released a Coastal and Oceans Strategy and Policy Framework Discussion Paper in July. Nicole Hynes will present on "What we heard" at the next ACZISC meeting in January 2011. The Strategy is scheduled to be released in 2011.  
<http://www.fishaq.gov.nl.ca/publications/OceansDiscussionPaper.pdf>.

**NATURAL RESOURCES CANADA:** Ross Boutilier, Geological Survey of Canada - Atlantic, reported the following:

- **Offshore Geoscience Program (OGP):** This program includes a number of thrusts to identify marine hydro-carbon resources and areas suitable for renewable energy; to facilitate their development; and to contribute to policy, regulation and environment assessment of these activities. Contact: Gary Sonnichsen.
- **Bay of Fundy:** A number of individuals will be attending a workshop sponsored by NS Natural Resources, on Offshore Engineering and Environmental Research. Mike Li is a member of a panel looking at the near and far field environmental effects of development of Bay of Fundy Tidal Power; to be held in Wolfville, NS on Oct.13-15 2010.
- **Newfoundland-Labrador:** Surficial sediment and seabed stability mapping is ongoing on the Grand Banks.
  - A compilation of marine data has been used to prepare a digital terrain model highlighting slope and roughness of seafloor areas from Burin Peninsula to NE,

Newfoundland for future development. This region includes water depths ranging from ten to several hundred meters.

- Most maps have been released as GSC open files and in some areas such as Placentia Bay they complement the multi-beam mapping by John Shaw. Contact: Gordon Cameron or Ned King.
- GSCA is also involved in a small area off SE Avalon Peninsula examining surficial sediment and seabed stability related to future pipeline development. Contact: Ned King
- Multi-beam seabed survey in St Georges Bay NL was completed which showed less slope instability /change than anticipated, based on previous mapping. Contact: J. Shaw
- Current cruise of the Matthew will do additional seafloor mapping as a demonstration project as the ship heads home from the north; it is hoped this work will be picked up and carried forward by Newfoundland interests. Contact: Gary Sonnichsen.
- Analysis of mega-scale submarine landslide proceeding; the collapse possibly took place while ice-covered, and there is a healthy scientific debate ongoing. Contact J. Shaw.
- Climate Change Geoscience Program (CCGP): Monitoring of shoreline changes continues within the immediate area of HRM, with the latest surveys documenting the impacts of hurricane Earl (Sept 4, 2010). Large waves of 10m were generated and a storm surge of nearly 1.2m but it struck the coast close to low tide which limited significant changes to the backshore. If the storm had struck roughly 6 hours later at high tide with the same surge, water levels would have been close to those of Hurricane Juan. Lack of an official coastal monitoring program prevented assessments of Hurricane Igor in NL. Contact: Bob Taylor.
- Creation of Maritimes Marine Research Institute: NRCan and other federal departments have been engaged in discussions with Dalhousie University, and the National Research Council, towards establishing a Maritimes Marine Research Institute. While there are many dimensions to this proposal, it is clear it offers another vehicle to advance collaborative research, and will help to focus on longer-term scientific objectives. It is hoped this will include collaborative research in coastal regions, and that there will be more heard from this initiative at future ACZISC meetings.

**BAY OF FUNDY ECOSYSTEM PARTNERSHIP, INTERNATIONAL OCEAN INSTITUTE - CANADA AND DALHOUSIE UNIVERSITY:**

Marianne Janowicz, reported the following:

- Within the past few months: BOFEP received funds from Environment Canada (EC); and participated in CZC 2010 by facilitating a workshop with the Southern Gulf of St. Lawrence Coalition On Sustainability, "Linking Cultures to Protect Mother Earth: Governance for Conservation".
- The EC funds will support a project: Protecting the Bay of Fundy from Pollution from Land-Based Activities: a) Assessing Ecological Risks of Chemical Contamination; b) Working with Municipal Planners to Reduce Chemical Risks from the Urban Environment . This project will involve an ecological risk assessment on DDT, Mercury, and a pesticide that is used both in agriculture and in the finfish aquaculture industry.

- For the chemical portion of the project researchers will do a literature review, and prepare a table of lethality for various components of the biota as preparation for the Ecological Risk Assessment (ERA). It is anticipated that the ERAs will include information on cumulative impacts and will be useful to coastal stakeholders as they plan usage of the nearshore marine environment.
- The portion of the project involving working with municipal planners will see one researcher meeting with municipal officials to help them mitigate contamination from chemicals.
- BOFEP is also anticipating some funding from DFO so that the fact sheets that BoFEP has produced over the years can be updated and compiled as a book.
- The BoFEP Mudflat Ecology Working Group has compiled a Corophium Bibliography, which is hoped will be put on the website this year.
- The publications from the first two BoFEP workshops in '97 and '98 are now on the website.
- The Outreach Working Group will be continuing the discussion on cultural visions of conservation; the western and aboriginal community perspectives.
- Planning for the Fall 2011 biennial workshop is underway and will be held in Saint John, NB.
- BoFEP is presently in the process of completing a Strategic Plan which will be presented at the annual meeting on November 26 at 1:30PM in Joggins. Speakers at the AGM include Gerhard Poole who will speak about the Discovery Corridor and Gordon Fader whose talk is titled; A New Look at Fundy: recent bathymetric research. All are welcome to attend.

**ENVIRONMENT CANADA:** Kathryn Parlee, Strategic Integration and Partnerships, Environment Canada, Atlantic Region, reported the following:

- Melanie Corkum has taken over Larry Hildebrand's position at EC.
- Gary Lines is retiring at the end of October.
- ACAP is transitioning to a more ecosystem based approach, focusing on the Atlantic coastal ecosystem, and has identified 3 priority issues and 3 areas of interest.
- Money is now flowing out to the ACAP groups, including: BOFEP, SGSLCS, and the ACZISC.
- EC is interested in continuing the dialogue initiated at the Water Workshop (held in spring 2010), and organizing project teams to work on some of the priorities.

Anthony Pouw, Environmental Emergencies, reported the following:

- The mission of the Environmental Emergencies program of Environment Canada is to reduce the frequency and consequences of environmental emergencies by promoting prevention and preparedness, providing response and recovery advice, and advancing emergency science and technology. To facilitate this mission, EE is working on two key geomatics projects: consolidating EE's regional mapping initiatives; and active involvement in the four year multi-agency study "eSPACE".
- Consolidating regional mapping initiatives: a new national environmental emergency mapping system is in development and will replace the Atlantic Region's online emergencies mapping system known as E-MAP.
  - The first two of three phases of this project will be delivered to our program this fall, providing our Environmental Emergencies Officers with the needed

- mapping functionality required during environmental emergencies. Work on consolidating regional data into a national model is ongoing.
- **eSPACE**: EE program is actively involved in the four year multi-agency study “eSPACE” that is part of the MORSE - Arctic Coastal Initiative.
    - Arctic Coast Initiative is a joint initiative from the Canadian Space Agency and the European Space Agency. The objective of the study is to develop and demonstrate the use of earth observation data for emergency preparedness and response as well as habitat conservation in Canada's Northern coasts.
    - The expected results include coastal sensitivity and segmentation data for three study areas (Mackenzie River and Beaufort delta, Hudson's Bay and James Bay, and the Labrador coast), improved capacity to use earth observation resources to support Environment Canada's mandate in the Arctic, and to develop a business case for full implementation of earth observation mapping for emergency preparedness and habitat conservation.
    - With the first summer's field work complete and data processing to take place this winter, the project focus is expected to shift to the Labrador coast next summer.

**SOUTHERN GULF OF ST LAWRENCE COALITION ON SUSTAINABILITY:** Chantal Gagnon, Executive Director:

- The Coalition-SGSL's Annual General Meeting was held 11-12 June, 2010 in Chéticamp, Nova Scotia. Special presentations were made on SGSLCS projects, seven years of Community Aquatic Monitoring Program (CAMP) data and Coastal Erosion Monitoring in four provinces. Information can be found on the website <http://www.coalition-sgsl.ca/AGM.php>. Next year's AGM will be held in the Magdalene Islands during the Rivers to Oceans Week (8-14 June, 2010). The theme is on “Natural renewable and non-renewable resources exploitation in the Gulf: Can exploitation co-exist? Can they do so sustainably?” The Coalition is working with the local Comité ZIP and will coordinate with them. The Coalition is also looking for partners and funders for the event. Anyone interested please contact [admin@coalition-sgsl.ca](mailto:admin@coalition-sgsl.ca).
- The Coalition-SGSL aided 27 community groups (11 in PEI) and the Department of Fisheries and Oceans Canada in carrying out the CAMP activities this summer. The Coalition- SGSL was able to hire four summer students to coordinate the volunteer sampling activities with the community groups. This winter the Coalition- SGSL will be developing a template presentation targeted at community leaders to engage them in supporting this program through participation in their communities.
- The Coastal Erosion Working Group has agreed to the establishment of the Coastal Erosion Education and Monitoring Program (CEMEP) at the Coalition-SGSL. This will help ensure a better integration of coastal erosion education and community monitoring efforts within the Coalition-SGSL's planning processes. More information will soon be available on the Coalition- SGSL's website.
- This year the Coalition- SGSL is also working with conservation groups to develop a consistent message around the importance of habitat along waterways as a climate adaptation measure that responds to local needs regarding biodiversity, invasive species, coastal erosion, and infrastructure protection etc. This falls within the CEMEP efforts.
- The Coastal Communities Challenges - Community University Research Alliance has now had its first Annual General Meeting in Moncton in September. The new Research Alliance is now moving forward on the establishment of the governance structure and outcome mapping. This will ultimately direct the group toward the

common objective of having resilient coastal and insular communities in the Estuary and Gulf of St. Lawrence. More information is available on the [www.defisdescommunautescotieres.org](http://www.defisdescommunautescotieres.org) website. This site will soon be translated and will include more information.

- The Science, Research and Habitat Working Group of the Coalition-SGSL is in the process of developing a tool-kit for communities on how to use the 17 sustainability indicators. These were developed by the Coalition-SGSL in 2004 and used with focus groups in 2006. This tool-kit will not be available for at least another year as the Coalition-SGSL has no direct funding for developing it. However, Coalition-SGSL will be focusing on working with the municipal representatives on the Coalition's Steering Committee this year to ensure the tool-kit answers their needs in content, format and distribution.
- The Coalition-SGSL presented at the Coastal Zone Canada Conference. The Coalition is currently part of the Advisory Council for the Coastal CURA People and Places Conference to be held in Halifax in June 2011.
- The Coalition-SGSL is currently also working with our First Nation representatives on the Steering Committee on the development of several proposals that could help advance partnerships in the region around traditional knowledge, coastal erosion, water contamination, and community adaptation etc.
- Finally, the Coalition-SGSL office has a permanent part-time staff in the Coalition-SGSL's office in Shippagan, New Brunswick on the Acadian Peninsula. Her name is Danica LeBreton. Please feel free to contact her at [admin@coalition-sgsl.ca](mailto:admin@coalition-sgsl.ca) if you have any news you would like her to make available to our members.

**COINATLANTIC:** Paul Boudreau, ACZISC Secretariat reported the following:

- National Marine Cadastre Task Team: There was a very successful workshop on Marine Cadastre held during the Coastal Zone Canada 2010 Conference.
  - There continues to be discussion on the best name for this effort as cadastre is not a well-recognized concept and is often associated with taxation.
  - The discussions to date refer to this work as dealing with rights, restrictions and responsibilities (RRR).
  - There is also a suggestion that the Team should focus on establishing a registry/repository of legal RRR that could be linked to the many other sources of environmental and socio-economic information.
- Collaboration with Dalhousie School for Information Management: COINAtlantic has attended two meetings with researchers at Dalhousie involved in the Graphics, Animation and New Media (GRAND) project. Elaine Toms is heading a sub-project entitled Next Generation Information Appliances (nGAIA - <http://grand-nce.ca/annualreport/2009/en/themes-projects/research-project-lists/ngaia.html>) that is investigating improved methods of searching for information.
- International ad hoc Group working on Google searching for geospatial information: COINAtlantic continues to facilitate an international ad hoc group that is developing improved methods for finding and overlaying geospatial information.
  - The group includes the [Massachusetts Ocean Partners \(MOP\)](#), [Massachusetts Coastal Zone Management GIS \(MassGIS\)](#), and the [North East Coastal and Ocean Data Partnership \(NECODP\)](#).
  - This work is in support of the updated geospatial search strategy that was developed at an ACZISC workshop entitled: Workshop on Developing a COINAtlantic Strategy for Geospatial Searching" in April 2010. The workshop

report is available at: <http://aczisc.dal.ca/geosearchwksp-Apr2010.pdf>. A demonstration application can be accessed at: <http://staging.asascience.com/OGCSearch-OL>.

- The next step in the development involves adding a geospatial filter to remove all search results that do not contain information for the selected geographic area and to allow the overlaying of WMS and KML images. It is expected that there will be a demonstration of the next version of this application at the January ACZISC meeting.
- Work continues with ACZISC members to publish additional WMS layers online and to ensure that adequate metadata is contained within the WMS getcapability files to facilitate the finding of such services through the COINAtlantic Search Utility.

**FISHERIES AND OCEANS CANADA:** Jennifer Hackett, DFO Maritimes Region, Oceans & Coastal Management Division, reported the following:

- The Eastern Scotian Shelf Integrated Management Stakeholder Advisory Committee (ESSIM SAC) met on 28 September, 2010. The main topics of discussion were performance measurement, the national MPA Network Framework and development of sector reports.
- Following the public consultation process, the Maritimes Region has completed its Area of Interest (AOI) recommendation to the Minister and it is in the approval process.
- The Regional Committee on Coastal and Ocean Management (RCCOM) will meet on 21 October, 2010 in Fredericton, NB. Updates and progress discussions will take place on the Maritimes and Gulf Regions AOI recommendations as well as various Integrated Management initiatives throughout the Maritimes Provinces. As well there will be an early discussion on potential consultation approaches for a bioregional network of MPAs in the Maritime Provinces.
- DFO Maritimes Region is working on the State of the Scotian Shelf (SOTSS) report. Melanie MacLean is taking over from Jay Walmsley. The scoping document is almost ready for launch and three theme papers are in review, which should all be complete by 31 March 2011.
- The Gulf of Maine Council on the Marine Environment (GOMC) is in the early stages of establishing its 5-Year Action Plan for 2012-2017. Visit [www.gulfofmaine.org](http://www.gulfofmaine.org) or subscribe to its RRS News feed [www.gulfofmaine.org/xml/news.xml](http://www.gulfofmaine.org/xml/news.xml) for future information.
- The State of the Gulf of Maine (SOTGOM) was officially announced for World Oceans Day during the GOMC's 20 Anniversary celebration meeting in Portland Maine. Since then the latest Theme paper on Coastal Ecosystems and Habitats was completed. All documents are available on the website [www.gulfofmaine.org/state-of-the-gulf](http://www.gulfofmaine.org/state-of-the-gulf).
- The Musquash Marine Protected Area information is now live on the DFO Maritimes Region Oceans & Coastal Management website [www.mar.dfo-mpo.gc.ca/e0011874](http://www.mar.dfo-mpo.gc.ca/e0011874)
- The Government of Canada (GoC) launch on World Oceans Day of [www.oceans.info.gc.ca](http://www.oceans.info.gc.ca) was a big success. Participating Federal Departments coordinated their Ocean information into this themed portal.
- Oceans & Coastal Management documents are available to view online or request hardcopies. For more information about some of the available documents visit [www.dfo-mpo.gc.ca/oceans/publications/index-eng.htm](http://www.dfo-mpo.gc.ca/oceans/publications/index-eng.htm); [www.mar.dfo-po.gc.ca/e0010351](http://www.mar.dfo-po.gc.ca/e0010351) or the WAVES Library to search for specific document titles

<http://inter01.dfo-mpo.gc.ca/waves2/search.html?LANG=en>. To request hardcopies or ask about other DFO Maritimes Region OCMD Documents, contact Jennifer Hackett: 902-426-1491 or Janet Hartling: 902-426-9919.

- World Oceans Day was celebrated at the Bedford Institute of Oceanography (BIO) on 8 June, 2010. The participants of the International Ocean Institute's 2010 Training Programme on Ocean Governance enjoyed a day long activity of lectures and tours at BIO. This also marked IOI Canada's 30th Anniversary of this annual course <http://internationaloceaninstitute.dal.ca/training.htm>. The Fishermen & Scientists Research Society held their annual presentation of Oceans 11 Outstanding Student Awards <http://fsrs.ns.ca/doc/HLT2010-2.pdf> at BIO on Oceans Day.
- The Bedford Institute of Oceanography (BIO) [www.bio.gc.ca/about-sujet-eng.htm](http://www.bio.gc.ca/about-sujet-eng.htm) will be holding its 50th Anniversary celebrations in 2012. Plans are underway to include a series of events during the year, including the BIO Open House 2012, which promises to be an exciting new approach to previous BIO Open Houses.
- The Canadian Coast Guard (CCG) is making plans for 50th Anniversary celebrations in 2013. BIO and CCG celebrations may hold some concurrent activities.

Delly Keen, DFO Gulf Region, reported the following:

- **Basin Head Marine Protected Area:** Monitoring in the Basin Head MPA has noted a decline in the abundance of the unique strain of Irish moss, *Chondrus crispus*. A science advisory review conducted in November 2008 identified two potential reasons for the moss decline: a) the presence of the invasive green crab (*Carcinus maenas*); and b) nutrient/sediment inputs from watershed activities. New information on the green crabs and nutrient/sediment inputs:
  - **Green Crab:** In 2009 and again in 2010, DFO initiated a green crab removal project, between May and September 2010 over 25,000 green crabs were removed from the MPA. Questions remain as to what impact the green crab has on the moss bed, i.e. do green crabs eat Irish moss or just damage the plant while foraging for other prey?
  - **Nutrients:** In March 2010 a Basin Head Watershed Management Plan was developed which has short and long-term strategies to address various issues in the Basin Head Watershed, including the nutrient/sediment input. Work has begun on implementing some of the strategies.
- **Community Aquatic Monitoring Project (CAMP):** DFO currently works with community groups to conduct CAMP at 11 estuaries across PEI. The program consists of beaching seining at 6 locations within each estuary once a month from May through to, and including, September. Fish abundance and species are recorded as well as a description of the vegetation in the area. This program allows community groups to monitor the health of their estuary.
- **Oceans Day:** For Oceans Day 2010, DFO partnered with the PEI Department of Fisheries, Aquaculture and Rural Development, the PEI Basin Head Fisheries Museum, the Souris and Area Branch of the PEI Wildlife Federation and the Eastern School District to bring Grade 8 students from the Souris Regional High School to the Basin Head site. Students learned about the importance of oceans and coastal areas, with special emphasis on the Basin Head Marine Protected Area.
- **Coastal Zone Canada Conference 2010:** Approximately 30 delegates at the conference took part in a field trip to Eastern PEI to visit a salt marsh restoration project in the Souris Watershed and to visit the Basin Head Marine Protected Area.

Julie Whalen, DFO Gulf Region, reported the following:

- An underwater video study has been conducted to identify the bottom type and species within the Shediac Valley, a proposed Area Of Interest (AOI).
- Roland Cormier and Marc Ouellete of the Centre of Expertise for Aquatic Habitat Research have given several presentations and displayed posters (developed by Mathew Hardy and Ray MacIsaac) for the demonstration and validation of risk analysis techniques at the ICES (International Council for the Exploration of the Sea) Annual Science Conference. The title of the session was “Risk of failing in Integrated Coastal Zone Management, a risk management approach that connects science to management”. A component of this work includes the Vulnerability Atlas, a tool that evaluates the risk of activities resulting in adverse environmental effects in the aquatic environment. Data is being harmonized amongst the DFO regions, further legitimizing the process and moving it forward to an interactive map intranet web application and then potentially a publicly accessible map server.
- A Legislative Overview and Assessment is being conducted of all the Acts, Regulations, Policies and Best Management Practices that have provisions for the protection against adverse environmental effects in the aquatic environment. This will be analysed to identify gaps, overlaps and opportunities for collaboration amongst government departments and agencies.

Blair Thorne, DFO Newfoundland and Labrador Region, reported the following:

- The Placentia Bay-Grand Banks (PBGB) Large Ocean Management Area (LOMA): The Integrated Management Planning Work Group (IMPWG) met in June to discuss governance objectives for the PBGB LOMA Integrated Management Plan. Another meeting is planned for the fall to further refine these objectives.
- Conservation Priorities: The methodology used by DFO Oceans to rank the key ecosystem components identified by DFO Science has been published in the Oceans, Habitat and Species at Risk Series, and the proceedings of the PBGB LOMA Conservation Priorities Workshop, held on 20 October, 2009 is in press.
  - A meeting of the PBGB IMPWG is planned for November to finalize strategies under the Healthy Ecosystem Goal.
  - Gilbert Bay and Eastport Marine Protected Areas (MPA) Management Plans are being reviewed and updated. Consultations will be conducted this fall, and the updated management plans for 2010-2015 will be finalized this fiscal year.
  - The DFO Minister announced the Laurentian Channel as an Area of Interest in the Marine Protected Areas Program on World Oceans Day (8 June, 2010); key in meeting Health of the Oceans deliverables. Further evaluation and consultation is required to determine if an *Oceans Act* MPA is the appropriate management tool for the site. Consultations with potentially impacted stakeholders will continue into the early fall.
  - A DFO Science led workshop is scheduled for 9-10 November to prepare a Biophysical Overview. DFO is also drafting a Social, Economic, and Cultural Overview with input from other federal departments and the Province. These documents will be used as aids in boundary delineation, identification of conservation objectives for the MPA, development of monitoring protocols and strategies, etc. The intent is to have these documents prepared for the inaugural Advisory Committee Meeting scheduled for late fall.
- Coastal Management Areas: The Placentia Bay Integrated Management Planning Committee (PBIMPC) is in the process of planning a two day AGM for 27 and 28

October, 2010 in St. Bride's. The PBIMPC is also moving forward with its Green Crab Action Plan.

- GOSLIM: Western Newfoundland and Southern Labrador: The GOSLIM Conservation Priorities Working Group has completed Phase 1 of the characterization and analysis of potential risks to ecosystem components. Phase 2 has now begun and involves similar analyses for candidate ecologically significant species identified for the Gulf as a whole. NL will focus on completing the characterization of risk analysis for eelgrass and the marine mammal species identified.
- Bay St. George/Port au Port Peninsula Coastal Management Area (CMA): The CMA with its partners is continuing to build the information database of their coastal area begun in 2009 with significant coastal and marine areas based on traditional local knowledge.
  - This year, the group will begin to profile existing industries, human settlement and other activities (commercial fisheries; oil and gas exploration; agriculture; aquaculture; tourism; cultural (Aboriginal, French); integrated oceans management; etc.) in the area.
  - The information will be geo-referenced and mapped. Web-based applications (ex. Google Maps) will be used to make both final map products widely available for planning purposes.
- Great Northern Peninsula CMA: The ICZM Steering Committee has recently updated its website to serve as a web portal to distribute knowledge of the local area and enhance the committee's capability to reach out to stakeholders <http://www.coastalplanninggnp.ca>.
  - The Significant Coastal and Marine Areas mapping project conducted in 2009-10 has now been completed and integrated into the Committee's website: [http://www.coastalplanninggnp.ca/planning/google\\_maps\\_intro.htm](http://www.coastalplanninggnp.ca/planning/google_maps_intro.htm).
  - The Committee and DFO continue to work with Memorial University through the Community-University Rural Recovery Alliance <http://www.curra.ca> on studies of best practices with respect to governance structures in dealing with coastal issues.
- Bay of Islands CMA: DFO, Oceans Division is currently working with the Atlantic Coastal Action Program (ACAP) Humber Arm Environmental Association, Sir Wilfred Grenfell College and the Marine Institute to develop a Smart Bay program for the Bay of Islands similar to that in Placentia Bay.
  - A Working Group has now been formed to meet with local interests and identify the particular requirements.
  - It has developed a surface contamination model for the Bay of Islands coastal area. It is a web-based product with a tool to project pathways of movement and areas of shoreline contact for surface contaminant spill throughout the Humber Arm, Bay of Islands. It is expected to be available in the coming months.
- Centre of Excellence (CoE) Corals and Sponges: The Communications Approach for the CoE in cold water coral and sponge reefs has been approved by the Minister. As a part of the communications approach DFO is developing a ~10 minute DVD raising awareness of coral and sponge conservation targeted at fish harvesters in Canada. In addition a CoE website should be launched this fall.

**COASTAL ZONE CANADA ASSOCIATION and MEMORIAL UNIVERSITY:** Grant Gardner reported the following:

- Many coastal areas in Newfoundland were recently impacted by Hurricane Igor. Most severe damage was to the road system, with many communities cut off due to significant washouts. There may be implications for coastal zones both because of the transportation of washed-out material by rivers as well as from later efforts to reconnect communities by replacement of bridges and roadways. The East Coast Trail system also suffered considerable damage, with major portions of the trails temporarily closed off for removal of felled trees and assessment of the degree of erosion of trail sections on exposed shorelines.
- The Marine Institute (MI) of Memorial University has signed an articulation agreement with the University of Ulster in Northern Ireland. The University of Ulster will grant advanced standing in their Masters of Science in Coastal Zone Management program for up to five graduates each year from the MI's advanced diploma Integrated Coastal and Ocean Management. Graduates of the MI program are now accredited with two years of study in Ulster's three-year M.Sc. program, and hence will be able to complete that program with one additional year of study. As well, the M.Sc. program is also available on-line for those wishing to complete it from Newfoundland.

**GEONET TECHNOLOGIES:** Mike Pearson reported the following:

- GEONET is working on a coastal decisions support system using a 100 year probability overlay on land and with demographics. Small island states may be interested in the program. He noted that insurance companies do not provide flood insurance.

**NATIONAL DEFENCE, FORMATION ENVIRONMENT:** Kyle Penney reported the following:

- NDFE is working with Defence Research and Development Canada (DRDC) on a study to record underwater noise in Marine Operating Areas using a Slocum Glider. This will be a start to developing background noise levels at different times of the year in different areas that are used for exercises. It will also validate management plan/ mitigation measures.
- NDFE is working on ambient noise studies to determine if there is an effect (disturbance) on breeding bird colonies at islands near surface weapon firing areas.
- NDFE is planning a Bubble Curtain trial for underwater detonation training at Roach Cove in the Bedford Basin with DFO. The intent is to gain DFO confidence and approval of the mitigation program for the use of Roach Cove for Explosive Ordnance Disposal training.

**PEI DEPT. OF FISHERIES, AQUACULTURE AND RURAL DEVELOPMENT:** David MacEwen reported the following:

- FARD is working on projects with green crab, including how they affect the clam populations.
- Tunicates continue to negatively impact aquaculture in PEI where there are four problem species.
- Heavy rains have resulted in shellfish closures in PEI.
- FARD is working on lobster programs in deeper waters.

- There has been interest in the proposed introduction of recreational clam licences, either under Federal or Provincial governance, as a way to improve the monitoring and management of this coastal resource.
- The province of PEI is closely watching NS's coastal strategy process, as it develops a strategy for PEI.
- Kelly Cantelo is to be congratulated for her work with the CZC 2010 Conference.

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

- Bay of Fundy Regional Analysis Study: Parks Canada is continuing with the Bay of Fundy regional analysis study. The study, being conducted by a consultant firm, AECOM, of Halifax, is scheduled to be completed early in the New Year. This assessment reflects an early stage in the planning process leading to the potential establishment of a National Marine Conservation Area in the Bay of Fundy.
- Future National Park on Sable Island: Commencing in June 2010, Parks Canada initiated public and stakeholder consultations on the subject of a future National Park on Sable Island.
  - This was a follow up to the announcement made on 18 May 2010 by the Minister responsible for Parks Canada and the Nova Scotia Minister of Natural Resources.
  - The consultation strategy consisted of public open houses, bilateral meetings with stakeholders and interest groups, website, email, public meetings, and a round table with a number of non-governmental organizations.
  - Parks Canada is also consulting with the Mi'kmaq of Nova Scotia on the establishment of a National Park on Sable Island.
  - A "What We Heard" report is nearing completion and should be available soon.
  - There is still much work to be concluded; including negotiating a federal-provincial agreement between Canada and Nova Scotia, and introducing a bill into the House of Commons to amend the *Canada National Parks Act* to include Sable Island.
  - For further information and updates, one can visit [www.pc.gc.ca/sable](http://www.pc.gc.ca/sable), or email at [sable@pc.gc.ca](mailto:sable@pc.gc.ca).
- Canadian Parks & Wilderness Society (CPAWS) "Dare To Be Deep Tour - National Awareness Tour": CPAWS is conducting a National oceans tour in partnership with Parks Canada, Mountain Equipment Coop and other sponsors to raise the profile of marine conservation areas across Canada. Tour dates are 25 October to 9 November 2010.
  - The tour celebrates the recent formal designation of Gwaii Haanas National Marine Conservation Area Reserve and Haida Heritage Site, Canada's first National Marine Conservation Area under the *Canada National Marine Conservation Areas Act*.
  - Gwaii Haanas NMCA Reserve will serve as a model for integrated oceans management and act as a foundation element towards the development of a network of MPAs.
  - Representatives of the Haida First Nation will participate in the National Tour. The tour will also profile other National efforts to achieve significant national marine conservation successes in other parts of the country. The Bay of Fundy is to be highlighted in the event in Nova Scotia.

- Two meetings are scheduled for Atlantic Canada, the first in St. John's on 8 November, 2010 to be held at the Marine Institute at Memorial University, and the second on 9 November 2010, at Dalhousie University. Further information is available at: [www.cpaws.org/news/events/daretobedeep.php](http://www.cpaws.org/news/events/daretobedeep.php).

**KOREA MARITIME INSTITUTE:** Jiyeon Choi, Senior Researcher, Marine and Coastal Policy Division, Korea Maritime Institute, reported the following:

- Jiyeon is a visiting scholar with the International Ocean Institute (IOI)-Canada this year. Her research area is the development of national and local policies of coastal & ocean management.
- On her return to Korea Jiyeon would like to develop a collaborative group similar to the ACZISC. In Korea, there are many initiatives related to coastal management, implementing acts and national plans, responsible departments, information systems etc. However, there is not a committee that facilitates the sharing of problems and concerns on a regular basis.
- Jiyeon plans to join a project regarding a training program for coastal management in Asian countries. Also, she will conduct a study on the response strategies to coastal disasters in Indonesia supported by the Korea International Cooperation Agency.
- Jiyeon thanked the ACZISC members for their help and everything they have shared, she wishes to keep in touch and continue this link between Canada and Korea.

**GOVERNMENT OF PRINCE EDWARD ISLAND:** Steven Dickie, Department of Justice & Public Safety, Office of Public Safety, reported the following:

- Larry Avery has attended past ACZISC meetings on behalf of the PEI Department of Justice & Public Safety but is presently seconded as a project manager for the Maritime Radio Communications System.
- The Office of Public Safety is responsible for emergency management activities in Prince Edward Island (Emergency Measures Organization, 911 Administration Office, Fire Marshal's Office, and Business Continuity).
- Emergency management activities in Canada traditionally refer to a cycle consisting of Mitigation, Preparedness, Response, and Recovery.
- **Mitigation Focus:** The Office of Public Safety has created a hazard analysis and risk assessment guide which will function as a framework for the PEI Government to prioritize hazards and how to plan responses to them (eg. assessing hazardous materials storage & transport, mass gathering events, severe weather, etc.) from the perspective of risk to individuals, the environment, property and infrastructure.
- **Mitigation/Preparedness Focus:** The Office of Public Safety attempts to encourage resiliency among individuals (residents & visitors) and municipalities/communities. To this end the Office of Public Safety is involved in two Government of Prince Edward Island initiatives that have coastal components:
  - Committed support to the Dept. of Environment, Energy & Forestry for Prince Edward Island's component of the Regional Adaptation Collaborative (RAC) which Gary Lines presented to ACZISC in May 2010. Major projects include adaptation relating to coastal hazards, inland hazards, infrastructure design, and saltwater intrusion. Provinces are looking at coastal flood inundation mapping, erosion/shoreline change modeling, inland flood inundation mapping, etc.

- Committed support to the Dept. of Finance & Municipal Affairs for the implementation of recommendations resulting from the 2009 Commission on Land & Local Governance. The Land Use Coordinating Committee (LUCC) is an interdepartmental senior management committee tasked with developing the implementation; should implementation of any recommendations take place, it will likely be late 2011 onward. The Office of Public Safety has pushed for ICZM policy to be part of this implementation to mitigate the possibility of development taking place in areas at risk of coastal flooding and erosion, etc.
- Several new geospatial products being acquired or under consideration by the Government of Prince Edward Island that will impact the RAC and LUCC activities:
  - New orthophotos were acquired in summer 2010 as part of the 10-year rotation for Dept. of Environment, Energy & Forestry's "Corporate Land Use Inventory" (CLUI). The black & white orthos acquired in 2000 were scanned to 80cm ground sample distance. The 2010 orthos will be acquired digitally in colour with multi-spectral at 40cm ground sample distance. Delivery is scheduled to begin in late 2010. Air photo interpretation for CLUI is currently planned to go to tender, no estimate on delivery of geospatial data for land use as of yet.
  - Various spin-offs from the 2008 lidar survey. New watershed boundaries are being delineated, forest volumes calculated, structure heights measured, etc. The Office of Public Safety is working with our partners at CHS to have a 3-D tidal datum created (eg. mean sea level surface) for the southern Gulf of St. Lawrence. CHS would be interested in Lower Low Water Large Tide (LLWLT) for vessel navigation safety. EMO would be interested in Higher High Water Large Tide (HHWLT) which would function as a digital flooding threshold on the lidar digital terrain model (eg. the land-water interface).
- Response Focus: The Office of Public Safety follows the Prince Edward Island All Hazards Plan which provides an emergency management framework for response to incidents where the provincial government must become involved. The Office of Public Safety is looking at improving geospatial situational awareness for emergency managers, particularly during storm surge events that result in flooding.
  - Currently word is sent out through volunteer firefighter network (and other emergency responders) across the province to watch coastal areas known to be at risk and report back their observations, provided they aren't involved in responding to an emergency.
  - The Office of Public Safety would like to develop a system that incorporates real time emergency water level monitoring. The current network of tide gauges in the Southern Gulf of St. Lawrence has been depleted and the Office of Public Safety is lobbying CHS to reinstate gauges to densify the Permanent Water Level Network.
  - An alternative has been suggested by DFO scientists at the Maurice Lamontagne Institute to use existing real time tide gauge data in a down-scaled model of ocean dynamics for the Gulf of St. Lawrence. This would function as a "virtual" real time tide gauge to deliver the water level information. If this approach is possible, it would be desirable to have a data feed made available to EMO's in PEI, NB and NS for situational awareness and post-disaster review. This is currently being discussed with GeoConnections.
- Supporting academic work relating to adaptation: UNB Department of Geodesy & Geomatics Engineering is part of an ICURA study that has paired Charlottetown with

Georgetown, Guyana to examine jurisdictions that are vulnerable to sea level rise and where studies have been undertaken but not translated into policies to enable adaptation. The Canadian Institute of Planners have been studying adaptation in Stratford and Centre of Geographic Sciences/ Applied Geomatics Research Group is performing analyses for Geological Survey of Canada as part of this work.

**PUBLIC SECURITY CANADA:** Gordon Lavoie, Emergency Management and National Security, reported the following:

- PSC coordinates and supports the efforts of federal organizations to ensure National Security. PSC also works with other levels of government, first responders, community groups, the private sector and other nations.
- The Department has offices in each Atlantic Province and his PEI office works closely with the PEI government.

**NOVA SCOTIA DEPARTMENT OF FISHERIES AND AGRICULTURE:** Sean Wesloh McKeane, reported the following:

- The 2011 Oceans Day Halifax waterfront celebration will be held on Friday 10 June. This annual event is co-organized by NS Fisheries and Aquaculture, Department of Fisheries and Oceans, and the Maritime Museum of the Atlantic. World Oceans Day is celebrated in over 45 countries around the world and the Halifax event brings together exhibits and demonstrations from over thirty ocean and coastal related organizations in the region. The ACZISC participates in this Halifax Waterfront event.
- See agenda item #5 presentation: 'Public Perceptions of the Coast: Feedback on the State of the NS Coast Report'.

**AGRICULTURE AND AGRI-FOOD CANADA:** Rollin Andrew, Agri-Environment Services Branch (AESB), reported the following:

- AESB works with stakeholder groups across Atlantic Canada, Federal/Provincial/Industry/Academia.
- AESB's focus is mainly on water quality, water management, riparian health, agro-forestry, land use identification, biodiversity, climate adaptation, and watershed planning.
- Work involves applied research, demonstrations of Best Management Practices, education and awareness. See Agenda item #5 presentation: Agriculture Best Management Practices (BMPs) in Atlantic Canada.
- Projects are underway in all four Atlantic Provinces and include: irrigation and water planning, improving water quality, nutrient management, soil conservation, habitat preservation, biomass production, cranberry development, dykeland risk mapping, agro-meteorology, climate adaptation modelling, etc.
- The AESB would welcome partnerships with other ASZIC members related to watershed planning as it impacts coastal zones.

**Public Works and Government Services Canada:** Kerry Taylor, reported the following:

- PWGSC awarded, on behalf of other government departments, 130 million dollars of construction work on harbours and ports as part of Canada's Economic Action Plan.
- PWGSC's Office of Small Medium Enterprise (OSME) is sponsoring the following program to help the private sector. This office has recently launched a new program - the Canadian Innovation Commercialization Program (CICP).

- The CICIP is a new Government of Canada initiative, announced as part of the Government of Canada's Budget 2010 commitment to promote Canada's Economic Growth. The overarching goal of the CICIP is to promote innovation and support the development of small and medium sized enterprises in Canada. The program was created to help Canadian businesses by testing their innovative products and services within the Government of Canada before taking them to the marketplace. To learn more see the website [www.buyandsell.gc.ca/innovation](http://www.buyandsell.gc.ca/innovation) or contact the OSME team at (902) 496-5677. There are two ways to participate:
  - Attend CICIP specific events and scheduled industry events where the CICIP team will be present. By attending these events, departmental representatives will benefit from the opportunity to meet with innovators. The representatives can express their particular needs and challenges to innovators while at the same time discovering what innovations are being developed and get an idea of the direction innovation is heading in their particular area of interest. For a complete listing of CICIP related events or more information on the website, visit our website - [www.buyandsell.gc.ca/innovation](http://www.buyandsell.gc.ca/innovation).
  - Agree to be an evaluator of the accepted qualified innovations. To support the testing of these innovations, the innovations will be paid for by the CICIP innovation fund. For more information please contact Anne Thomas at [anne.thomas@pwgsc.gc.ca](mailto:anne.thomas@pwgsc.gc.ca)