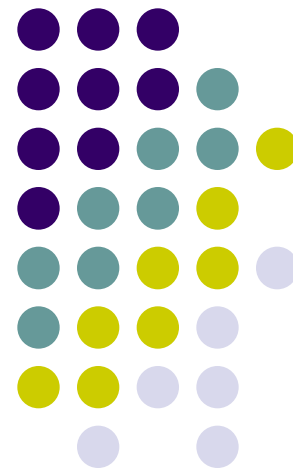


Manitoba – Wisconsin Climate Workshop Series and Manitoba Climate Modelling Initiative

Extremes Workshop
February 7 – 9, 2011

Avery Jodoin
Manitoba Innovation, Energy and Mines
Government of Manitoba



Background: MB-WI MOU



- MOU: Memorandum of Understanding (non-binding agreement to collaborate – common for govt to govt partnerships)
- October 2009: signing of MB-WI MOU. Agreement establishes 5 key areas for ongoing cooperation:
 - Biosciences and Life Sciences;
 - Agricultural and Human Health Research and Development;
 - Renewable Energy and Environmental Industries and Research;
 - Water Treatment and Management; and
 - Transportation.

MB-WI Climate Workshop Series



- First collaborative initiative under the MOU
- Announced by Premier Selinger and former-Governor Doyle in December 2009 at the United Nations Climate Change Conference in Denmark
- Series of 4 bilateral workshops to discuss some of the key issues associated with climate change in our region, namely:
 - Regional Climate Modelling;
 - The Green Economy and Green Jobs;
 - Agricultural Economics of Climate Change; and
 - Climate Change and Watershed Management.

Goals of the Workshop Series



- Venue for academic experts, business leaders and public sector decision-makers to discuss the current and projected implications of climate change for the North American Midwest.
- Support the development of future partnerships between Manitoba and Wisconsin.
- Maximize opportunities for public-private sector collaboration.

Workshop #1: Regional Climate Modelling



- September 16-17, 2010, in Winnipeg.
- Brought together roughly 50 Wisconsin and Manitoba policy makers, experts and researchers
- Aimed to explore the actual and potential uses of climate modelling as a research tool to inform policy development, business practices and economic growth within the emerging low carbon-economy.

Workshop #1: Regional Climate Modelling



- Workshop discussions focused on:
 - Current and projected meteorological effects of climate change (in Manitoba, Wisconsin and the region)
 - How modelling is currently being used to improve our confidence in climate projections for our respective jurisdictions/ the region
 - How projections achieved through modelling and/or other tools can inform policy decisions, adaptation strategies and business activities

Workshop #1: Regional Climate Modelling



- Key discussion points highlighted the common ground between MB and WI -- similarity of recent and projected climate for both jurisdictions.
- Underscored the need for further collaboration that supports:
 - integrated and holistic perspectives to climate change adaptation;
 - increased technical and scientific capacity for impacts and adaptation assessment;
 - enhanced communication, and data/information sharing among scientists and institutions to support policy-relevant actions; and
 - strengthened stakeholder/community engagement.
- *Manitoba Climate Modelling Initiative is an outcome of the workshop discussions*

Workshop #2: Green Economy and Green Jobs



- October 28, 2010, in Madison, WI.
- Brought together roughly 50 Wisconsin and Manitoba policy makers and business representatives
- Workshop discussions focused on:
 - Overview of the “green economies” in MB and WI
 - Policymaking tools to grow green industries/green jobs
 - Business strategies to tap into “green” markets

Workshops #3 and #4:

Climate Change and Watershed Management

Agricultural Economics of Climate Change



- Planning currently underway (delayed due to state election turnover in WI and flooding concerns in MB)
- Likely webinar format, early spring
- Invites will be circulated to potential Manitoba attendees as dates, format, etc. are confirmed

Initial Outcomes of the Workshop Series: Manitoba Climate Modelling Initiative



- Regional Climate Modelling workshop identified the need to undertake a gap analysis/needs assessment for Manitoba's climate modelling activities
 - with collaborative support from Wisconsin's WICCI modellers.
- Goal is to enhance Manitoba's shared climate data/modelling capacity and to move the province's current data collection/modelling activities towards a more comprehensive, collective and integrated model (similar to the Wisconsin system).

Initial Outcomes of the Workshop Series: Manitoba Climate Modelling Initiative



- A group of the province's key stakeholders involved in climate modelling efforts are in the process of developing a proposal for the initial gap analysis/needs assessment project
- Will likely include 4 main components:

Initial Outcomes of the Workshop Series: Manitoba Climate Modelling Initiative



1) Consultation with provincial modelling stakeholders

information and perspectives from the various stakeholders involved in climate modelling activities for Manitoba, in order to:

- Take stock of the data currently being accessed and/or compiled by the various stakeholders;
- Understand the method and regularity with which the stakeholders currently collect and/or access the data sets;
- Solicit the stakeholders' positive and negative perceptions regarding the data sets they currently compile and/or access; and
- Receive the stakeholders' input about what they would ideally like to see in a more comprehensive, shared climate data system.

Initial Outcomes of the Workshop Series: Manitoba Climate Modelling Initiative



2) Evaluation and comparison of the existing data sets identified by stakeholders

detailed analysis of the various data sets identified in phase 1). Meant to help identify one or more “preferred” data sets that could form the basis of a comprehensive system to be developed:

- Types of data collected, geographic specificity, frequency of collection;
- Strengths and weaknesses of each data set;
- Relative interoperability / ease of integration of the data with other data sets and/or analysis methods;
- Level of quality assurance and/or quality control (QA/QC) for each of the data sets, and any QA/QC issues;
- Etc...

Initial Outcomes of the Workshop Series: Manitoba Climate Modelling Initiative



- 3) Analysis of how the preferred data set(s) could be expanded and/or integrated into a more comprehensive, shared Manitoba system**
 - undertaken with involvement and input from the Wisconsin Initiative on Climate Change Impacts (WICCI) modellers.

Initial Outcomes of the Workshop Series: Manitoba Climate Modelling Initiative



4) Recommendations for the creation of a comprehensive, collective data and/or modelling system for Manitoba

- Development of a report to outline the collective data system that the Manitoba stakeholders would like to see created.
- Report could be used as a catalyst for Government and/or other relevant support agencies to explore the possibility of developing the recommended system over the long term.

Manitoba Climate Modelling Initiative: Potential Long Term Implications



- intended that the gap analysis/needs assessment project be used as a catalyst to open a longer term discussion about the development of a comprehensive climate data and/or modelling system for Manitoba.
- finalized project report will be a useful tool to seek support and resources for a potential longer term project to create the system and maintain it on an ongoing basis.
- creation of a comprehensive system for Manitoba may also open discussions to other long term projects:
 - Development of online climate projection tools for public access;
 - Creation of a provincial climate atlas (climate and ecological zones, etc); and
 - Integration of modelling data into provincial policies, strategies and/or business activities.

Thank You! Questions?



Avery Jodoin

Manitoba Innovation, Energy and Mines

1010-259 Portage Avenue

Winnipeg, MB R3B 3P4

Tel: 204-945-0975

Fax: 204-945-3977

Avery.Jodoin@gov.mb.ca