Mackenzie GEWEX Study
Agenda for 7th Annual Meeting
7-9 November 2001
Sheraton Hotel – Heritage Room
Hamilton, Ontario

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation / Activity</th>
</tr>
</thead>
</table>

WEDNESDAY, 7 NOVEMBER 2001

INTRODUCTION
9:30 Welcome and Opening Message [Lawrence Martz]
9:45 Meeting Agenda and Other Information [Hok Woo]
10:00 Health Break

PRESENTATIONS

Session 1: Atmospheric Studies [Chair: Wayne Rouse]
10:30 Solar Radiation Budgets in the Mackenzie River Basin. [Henry Leighton]
11:10 A Synoptic-Dynamic Study of Planetary-Scale Collapses of Available Potential Energy. [Werner Wintels]
11:30 The Influence of Atmospheric Instability on Fire Behaviour in the NWT. [Bob Kochtubajda]
11:50 -- Poster Presentations -- (5 min each, poster titles are listed on page 3)
12:40 Lunch
13:40 Precipitation Estimates from Radar and Their Error Structure. [Isztar Zawadzki]
14:00 Modelling of Summer Precipitation with MC2 and CLASS. [Charles Lin]
14:20 Progress with the Canadian Regional Climate Model. [Murray Mackay]
14:40 Numerical Scaling Experiments with the CRCM III. [Kit Szeto]
15:00 Health Break
15:25 Water Vapour over the Saskatchewan Basin and Precipitation Events Near Edmonton. [Jinliang Liu and Stephen Whillans (Ron Stewart)]
16:05 General Discussion on Atmospheric Research [Chairs: John Gyakum and Charles Lin]
16:50 End of Day 1

THURSDAY, 8 NOVEMBER 2001

Session 2: Land Surface Studies [Chair: Faye Hicks]
9:00 Future Research on Lakes [Wayne Rouse and Bill Schertzer]
9:05 Lake Studies in Central Mackenzie Basin. [Wayne Rouse]
9:25 Modelling Lake Evaporation: Implications of Waves [Bill Schertzer]
10:05 **Group Photo - Grand Staircase/Sheraton Hotel**
10:20 **Health Break**
10:45 Progress with Lagrangian Simulation Models and Applications to Settling Velocity of Blowing Snow. [Peter Taylor]
11:05 Modelling the Effects of Blowing Snow and Small Water Bodies. [Peter Yau]
11:25 Analysis of Severe Summer Rainfall Events over the MRB [Gerhard Reuter]
11:45 General Discussion on Land Surface Research [Chairs: Murray Mackay and Peter Taylor]
12:30 **Lunch**

**Session 3: Hydrologic Studies [Chair: Ron Stewart]**
13:40 Climate Impacts on Ice-Jam Floods in Regulated Northern Rivers. [Spyros Beltsos]
14:00 Modelling the Interaction of River Ice, Climate, and Hydrology. [Faye Hicks]
14:20 Hydrological Modelling of Subarctic Canadian Shield Rivers. [Chris Spence]
14:40 Modelling Surface Water Fluxes in Boreal and Tundra Areas of the Lower Mackenzie Region. [Phil Marsh]
15:00 **Health Break**
15:25 Developing an Algorithm for Frost Hydrology. [Woo]
15:45 Modelling the Hydrological System of High Latitudes. [Martz]
16:05 Integrated Modelling for MAGS. [Ric Soulis]
16:25 General Discussion on Hydrologic Studies [Chairs: Lawrence Martz and Phil Marsh]
17:10 -- Comments from IAP Chair -- [Dennis Lettenmaier]
17:20 **End of Day 2**

**FRIDAY, 9 NOVEMBER 2001**

**Session 4: Remote Sensing Studies [Chair: Spyros Beltsos]**
9:00 Remote Sensing and Hydrology [Al Pietroniro]
9:20 Estimating Canada-Wide Evapotranspiration and Excess Water Based on Remote Sensing. [Jing-Ming Chen]
9:40 Mapping Water Fraction at 1 km Resolution for the Mackenzie Basin. [Wenjun Chen]
10:00 **Health Break**
10:35 The Use of Thermal AVHRR Data in MAGS. [Normand Bussieres]
10:55 Snow Cover and Lake Ice Determination in the MAGS Region Using Satellite Remote Sensing and Conventional Data. [Arvids Silis (Anne Walker)]
11:15 General Discussion on Remote Sensing Research [Chairs: Wenjun Chen and Claude Duguay]
12:00 **Lunch**

**Session 5: Reports and Comments [Chair: Kit Szeto]**
13:00 The Future of BALTEX. [Rainer Hollmann]
13:20 MAGS-GAME Siberian Collaboration [Hok Woo]
13:40 GEWEX and MAGS [Ron Stewart]
14:00 Report on MAGS Scientific Progress [Lawrence Martz]
14:20 Future Scientific Plans for MAGS [Hok Woo]
14:40 Comments from NSERC [Doris Braslins]
14:50 Closing Remarks from Management Board Chair [John Stone]
15:00 **End of Annual Meeting**
Posters (located in Heritage room for duration of workshop):

1. Absorption and Reflection of Radiation in High Latitude Lakes. [Worth, D., W. Rouse, C. Oswald W., Schertzer, C. Spence and C. Duguay]
2. Evaporation and Lake Size in the Mackenzie River Basin. [Oswald, C. and W. Rouse]
3. Foothills Orographic Precipitation Experiment. [Craig Smith]
4. Internal Boundary Layers and Evaporation from Lakes. [Sergiy Savelyev]
7. Retrieval and Monitoring of Surface Albedo and Radiation Budget over MAGS Region. [Alexander Trischenko]
9. Simulation of Turbulent Heat Fluxes at Trail Valley Creek Using the Canadian Land Surface Scheme (CLASS). [David Rodgers]

Other Meetings:

1. MAGS Management Board Meeting – Thursday, 8 November 2001, 19:00 EST, Ancaster Old Mill.
2. MAGS Science Committee Meeting – Saturday, 10 November 2001, 08:30 EST, McMaster University.