Drought Research Initiative (DRI) – Workshop #2 Agenda and Proceedings

Inn at the Forks, Winnipeg, MB January 11th-13th, 2007

THURSDAY, JANUARY 11

08:00 – 08:	30 Registration
08:30 – 10:	00 Session #1: (Chair: Ron Stewart)
	0 Welcome and Introductions
08:40 - 08:5	0 Welcome to Manitoba and an Overview about what drought means to Manitoba (Dwight
	son, Manitoba Water Stewardship)
08:50 - 09:0	e ,
09:00 - 09:1	
09:10 – 09:3 Stewart)	
09:30 - 09:4	5 Programmatic structure of DRI and workshop objectives (Rick Lawford)
09:45 – 10:0	0 Introductions to the DRI Website and Data Archives (Patrice Constanza)
10:00 – 10:	30 BREAK
10:30 – 11:	00 Session #2: Drought Characterization and Impacts (Chair: Harvey Hill)
	0 John Hanesiak
10:40 - 10:5	0 Ted Hogg
10:50 - 11:0	0 Discussion
11:00 – 11:	40 Session #3: Subsurface to Surface Drought Linkages (Chair: John Pomeroy)
	0 Ken Snelgrove
11:10 - 11:2	0 Al Woodbury
11:20 - 11:3	0 Masaki Hayashi
11:30 – 11:4	0 Discussion
11:40 – 12:	10 Session #4: Regional Water and Energy Cycling (Chair: Geoff Strong)
	0 Kit Szeto
11:50 - 12:0	0 Ron Stewart
12:00 - 12:0	5 Henry Leighton (Ron Stewart)
12:05 – 12:1	0 Discussion
12:10 – 13:	30 LUNCH (on your own)
13:30 – 14:	30 Session #5: Surface – Water – Atmosphere Exchanges (Chair: Ken Snelgrove)
13:30 - 13:4	0 Paul Bullock
13:40 - 13:5	0 Chris Derksen
13:50 - 14:0	
14:00 – 14:1	•
14:10 – 14:2	*
14:20 – 14:3	0 Discussion
14:30 – 15:	00 Session #6A: Partner Presentations (Chair: Jim Bruce)
	0 Efrem Teklemariam (Manitoba Hydro)

14:40 – 14:50 Mike McDonald (Prairie and Arctic Storm Prediction Centre) 14:50 – 15:00 Harvey Hill (Prairie Farm Rehabilitation Administration)

15:00 - 15:30 BREAK

15:30 – 17:30 Session #6B: Partner Presentations 15:30 – 15:40 Irene Hanuta (Prairie Farm Rehabilitation Administration) 15:40 – 15:50 Henry Venema (International Institute for Sustainable Development) 15:50 – 16:00 Bart Oegema (Saskatchewan Watershed Authority) 16:00 – 16:10 Ray Keller (Alberta Environment) 16:10 – 16:20 Guy Ash (Canadian Wheat Board) 16:20 – 16:30 Alf Warkentin (Manitoba Water Stewardship) 16:30 – 16:40 Al Dybvig (Prairie Provinces Water Board) 16:40 – 16:50 Ken Korporal (Canadian GEO Secretariat) 16:50 – 17:00 Discussion 17:30 – 19:30 Poster Session and Reception (Poster session for investigators, grad students, collaborators, partners and observers) 17:45 Speech by Steven Fletcher, MP FRIDAY, JANUARY 12 08:30 – 09:10 Session #7: Atmospheric Circulation and Precipitation (Chair: John Hanesiak) 08:30 – 08:40 John Gyakum 08:40 - 08:50 Geoff Strong 08:50 – 09:00 Steven Ouiring 09:00 – 09:10 Discussion 09:10 – 10:00 Session #8: Drought Simulation and Prediction (Chair: Masaki Hayashi) 09:10 – 09:30 Daniel Caya 09:30 – 09:40 Charles Lin 09:40 - 10:00 Discussion 10:00 - 10:30 BREAK10:30 – 11:20 Session #9: Field Projects, Drought Monitoring, Data Systems and Satellite Data Applications (Chair: Gary Burke) 10:30 - 10:40 Al Howard 10:40 – 10:50 Susan Skone 10:50 – 11:00 Alexander Trishchenko 11:00 – 11:10 Neil Taylor (UNSTABLE) 11:10 - 11:20 Discussion 11:20 – 12:30 Session #10: The Saskatoon Makeup Session (Chair: Harvey Hill) 11:20 – 11:30 Elaine Wheaton 11:30 – 11:40 John Pomeroy 11:40 – 11:50 Barrie Bonsal 11:50 – 12:00 Al Pietroniro 12:00 – 12:10 Al Pietroniro for Jessica Toyra/ Bruce Davison 12:10 - 12:20 Matt Regier 12:20 – 12:30 Discussion

12:30 – 12:45 PHOTO SESSION

12:45 – 13:50 *LUNCH* (catered)

13:50 – 15:00 Session #11: Introduction to the Themes and Working Groups

- 14:00 14:10 Overview of DRI Objectives (Ron Stewart)
- 14:10 14:20 Theme #1 and Cross-cutting Efforts (John Hanesiak)
- 14:20 14:30 Theme #2 and Cross-cutting Efforts (Masaki Hayashi / Barrie Bonsal)
- 14:30 14:40 Theme #3 and Cross-cutting Efforts (Charles Lin)
- 14:40 14:45 Theme #4 (Barrie Bonsal)
- 14:45 14:50 Theme #5 Update on issues raised last year (Elaine Wheaton)
- 14:50 15:00 Charge to the Working Groups and Discussion

15:00 – 16:15 Session #12: Working Group Discussions (Participants can take coffee/beverages from the central break area at 15:00 to their breakout rooms)

Working Group Theme #1 (Chair: John Hanesiak; Rapporteur: TBC)

Working Group Theme #2 (Chair: Masaki Hayashi; Rapporteur: TBC)

Working Group Theme #3 (Chair: Charles Lin; Rapporteur: TBC)

Working Group Themes #4/5 and the Partner Working Group (Chair: Elaine Wheaton; Rapporteur: Barrie Bonsal)

16:15 – 17:45 Session #13: Summary from the Working Groups and Discussion

16:15 – 17:15 Reports from the Working Groups

17:15 – 17:45 Discussion on Data Integration and Data Management

18:00 - 20:00: BoD Meeting

SATURDAY, JANUARY 13

09:00 - 10:00 Session #14:

Panel (Panel members – to be confirmed: Ron Stewart, Jim Bruce, John Pomeroy, one Partner, and one Collaborator)

Discussion topics:

What are the strengths and weaknesses of the current DRI approach?

Where should DRI focus its efforts in the next year? In the next four years?

10:00 - 10:30 BREAK

10:30 – 11:45 Session #15: Discussion Topics (to be updated based on January 11th and 12th discussions)

Gaps in Programs Support

Gaps in scientific activities:

Interactions between DRI and other initiatives

Progress on issues raised at the last workshop:

- How can we best move ahead with Themes 1-3, and what issues must be addressed?
- Quantifying physical features of the recent Canadian Prairie drought
- Understanding processes and feedbacks of the recent drought
- Assessing and reducing uncertainties in prediction of drought
- Addressing the question, "How can we move ahead with (unfunded) Themes 4/5?"

11:45 – 12:00 Session #16: Conclusion

Summary of Decisions/Actions

Adjournment

12:00 – 14:00 DRI Scientific Committee meeting

POSTERS

C.C. Agboma and K. R. Snelgrove: "Non-parameteric approach for trend delineation in the Canadian prairie"

Robert Armstrong and John Pomeroy: 'Evaluation of evaporation calculation methods during a summer drying period'

Julian Brimelow, John Hanesiak and Richard Raddatz: "Mapping the Spatio-temporal evolution of the 1999-2005 drought."

Aston Chipanshi: The national drought model for Canada

Erin Evans: "Characterizing precipitation during the recent drought at Calgary, Alberta"

LATE: Xing Fang and John Pomeroy: Prairie Snowmelt Runoff Sensitivity Analysis to Drought

E. R. Garnett: Causes of droughts on the Canadian prairies

Heather Greene: "A preliminary analysis of cloud cover during drought and non-drought periods."

John Jackson and Masaki Hayashi: "Testing the Versatile Soil Moisture Budget model for groundwater recharge estimation"

Suzan Lapp and Dave Sauchyn: Drought signals in GCM-based scenarios versus dendroclimatic records

Charles.A. Lin, Patrice Constanza, P. Poudret, P. Gachon, K.H. Lam and C. Saad: A Data Access Interface (DAI) and Data Integration Facility using Google Earth

Charles.A. Lin, H. Lin, L. Wen, and J. Derome: Analysis of seasonal forecast of summer precipitation from the Canadian Historical Forecast Project

Youssel Loukili: SABAE-HW – An enhancement of the Canadian Land Surface Scheme for climate assessment over the Prairies

Bano Mehdi: C-CAIRN Water Resources

Andrew Nadler: 1) Provincial fall soil moisture survey and results, 2) Manitoba Agriculture Weather Program

An Tat, John Hanesiak and Richard Raddatz: Initial Soil Moisture as a Predictor of Subsequent Summer Severe Weather in the Cropped Grassland of the Canadian Prairie Provinces

Alexander Trishchenko: Satellite Imagery for the Prairie Region: 1) July 2001, 2) July 2006

S.Z. Yirdaw and K.R. Snelgrove: "Validation of regional precipitation minus evaporation using a coupled GRACE driven moisture storage and measured basin runoff."