Banff International Research Station
for Mathematical Innovation and Discovery

Extreme events in climate and weather –an interdisciplinary workshop

August 22-August 27, 2010

MEALS

*Breakfast (Buffet): 7:00 – 9:30 am, Sally Borden Building, Monday – Friday
*Lunch (Buffet): 11:30 am – 1:30 pm, Sally Borden Building, Monday – Friday
*Dinner (Buffet): 5:30 – 7:30 pm, Sally Borden Building, Sunday – Thursday
Coffee Breaks: As per daily schedule, 2nd floor lounge, Corbett Hall
***Please remember to scan your meal card at the host/hostess station in the dining room for each meal.**

MEETING ROOMS

All lectures will be held in Max Bell 159 (Max Bell Building accessible by walkway on 2nd floor of Corbett Hall). LCD projector, overhead projectors and blackboards are available for presentations. *Note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverages in those areas.*

SCHEDULE

Sunday

16:00 Check-in begins (Front Desk – Professional Development Centre - open 24 hours)
Lecture rooms available after 16:00 (if desired)
17:30-19:30 Buffet Dinner
20:00 Informal gathering in 2nd floor lounge, Corbett Hall (if desired)
Beverages and small assortment of snacks are available on a cash honor system.

Monday: Introduction

7:00-8:45 Breakfast
8:45-9:00 Introduction and Welcome by BIRS Station Manager, Max Bell 159
9:00-10:00 Peter Guttorp: Introduction to climate modeling
10:00-10:30 Coffee break, 2nd floor lounge, Corbett Hall
10:30-11:30 Eric Gilleland: Some extreme value problems in climatology
11:30-13:00 Lunch
13:00-14:00 Guided Tour of The Banff Centre; meet in the 2nd floor lounge, Corbett Hall
14:00-15:00 Workshop planning. We will decide what discussion groups we will have. See below for some posibilities (feel free to add more).
15:00-15:30 Coffee break, 2nd floor lounge, Corbett Hall
15:30-17:00 Discussion groups
17:00-17:30 Group reports
17:30-19:30 Dinner
20:00- Social gathering, 2nd floor lounge, Corbett Hall

Tuesday: Time series extremes

7:00-9:00 Breakfast

9:00-10:00 Georg Lindgren: Systematic effects of seasonal phase mismatch in extreme value analysis of environmental variables
10:00-10:30 Coffee break
10:30-11:30 Rick Katz: Extreme value analysis for climate time series
11:30-13:30 Lunch
13:30-13:45 Group Photo; meet on the front steps of Corbett Hall
13:45-15:00 Discussion groups
15:00-15:30 Coffee break
15:30-16:30 More discussion
16:30-17:30 Group reports
17:30-19:30 Dinner
20:00- Posters and beer

Wednesday: Spatial extremes

7:00-9:00 Breakfast
9:00-10:00 Zhenyung Zhang: Examining extremal dependence in continental USA climate data
10:00-10:30 Coffee break
10:30-11:30 Dan Cooley: Models for spatial extremes
11:30-13:30 Lunch
Afternoon reserved for outdoor activities, i.e. hiking
17:30-19:30 Dinner
20:00- Social gathering

Thursday: Forests and observing networks

7:00-9:00 Breakfast
9:00-10:00 Charmaine Dean: Looking for climate change signals in the Canadian forest fire ignition record
10:00-10:30 Coffee break
10:30-11:30 Paul Whitfield: Observing networks: Precipitation and extreme precipitation
11:30-13:30 Lunch
13:30-15:00 Discussion groups
15:00-15:30 Coffee break
15:30-16:30 More discussion
16:30-17:30 Group reports
17:30-19:30 Dinner
20:00- Posters and beer

Friday: Summary

7:00-9:00 Breakfast
9:00-10:30 Summary of workshop, development of research topics
10:30-11:30 Coffee break and continued discussion
11:30-13:30 Lunch

Checkout by 12 noon.

** 5-day workshop participants are welcome to use BIRS facilities (2nd Floor Lounge, Max Bell Meeting Rooms, Reading Room) until 3 pm on Friday, although participants are still required to checkout of the guest rooms by 12 noon. **

Possible discussion groups

Multivariate extremes
Can regional climate models reproduce weather extremes?
Data requirements, homogenization, and metadata
Metrics of extreme weather
Visualization of extreme value analyses
Ensemble analysis of extremes
Risk of extreme climate events
Space-time extremes