

<b>Thursday, April 30<sup>th</sup> Science meeting (Day 1)</b>		<b>UQAM, Agora Hydro-Québec (CO-R500) 175, President Kennedy, Montreal, Canada</b>	
<b>8:30 am – 9:00 am</b>		<b>Registration</b>	
9:00 am – 9:10 am		<ul style="list-style-type: none"> <li>Overview of the Canadian Network for Regional Climate and Weather Processes <i>Sushama (UQAM)</i></li> </ul>	
<b>Theme C: Land-surface processes enhanced by improved representation of surface heterogeneity</b>			
9:10 am – 9:25 am		Theme C: Talk by theme leaders	
9:25 am – 9:45 am		<p style="text-align: center;"><b>Stochastic representation of intermittent boundary-layer mixing (C1)</b> <i>Scinocca (EC), Monahan (UVic), McFarlane (EC), He (RA-UVic)</i></p> <ul style="list-style-type: none"> <li>Progresses of developing, testing, and implementing a new diagnostic turbulence scheme using CCCma SCM-CAM4: The coupling of PBL turbulence with low Clouds and Precipitation</li> </ul>	
9:45 am – 10:15 am		<p style="text-align: center;"><b>Representation of snow and snow-albedo feedback (C2)</b> <i>Déry (UNBC), Sushama (UQAM), Fang (MSc-UQAM), Younas (PDF-UNBC), Diro (PDF-UQAM), Samuelsson (SMHI), Verseghy (EC)</i></p> <ul style="list-style-type: none"> <li>Snow and snow-albedo feedback in CRCM5</li> <li>Simulation of hydrological cycle in Western Canadian regions using CLASS</li> </ul>	
10:15 am – 10:45 am		<p style="text-align: center;"><b>Glacier and hydrology changes in future climate (C3)</b> <i>Marshall (UCalgary), Sushama (UQAM), Winger (UQAM), Ganji (RA-UQAM), Perroud (PDF-UCalgary)</i></p> <ul style="list-style-type: none"> <li>Downscaled meteorological fields for glacier mass balance modelling</li> <li>Shrinking glaciers and their impact on streamflows for Western Canada</li> </ul>	
<b>10:45 am – 11:05 am Health Break</b>			
11:05 am – 11:35 am		<p style="text-align: center;"><b>Vegetation changes in future climate (C4)</b> <i>Arora (EC), Sushama (UQAM), Teufel (MSc-UQAM), Shreshta (PDF-UVic), Verseghy (EC), Turquety (LMD)</i></p> <ul style="list-style-type: none"> <li>Impact of interactive vegetation phenology on the simulated Pan-Arctic land surface state</li> <li>Progress towards evaluation of the competition module of CTEM over the North American domain</li> </ul>	
11:35 am – 12:05 pm		<p style="text-align: center;"><b>Representation of large lakes in weather and climate models (C5)</b> <i>Duguay (UWaterloo), Sushama (UQAM), Huziy (PhD-UQAM), Baijnath (PhD-UWaterloo), Music (Ouranos)</i></p> <ul style="list-style-type: none"> <li>Analysis of Great Lakes simulations: NEMO-offline and CRCM5 one-way coupled configurations</li> <li>Assessing lake-effect snowfall over the Great Lakes Basin</li> <li>Trends and variability in lake ice cover and surface water temperature</li> </ul>	
<b>12:05 pm– 2:00 pm (Lunch &amp; posters)</b>			
2:00 pm – 2:20 pm		<p style="text-align: center;"><b>Permafrost and high-latitude hydrology changes in future climate (C6)</b> <i>Sushama (UQAM), Ganji (RA-UQAM), Verseghy (EC), Harvey (EC/Ouranos)</i></p> <ul style="list-style-type: none"> <li>Frozen soil-hydrology-climate linkages over North East Canada</li> </ul>	

2:20 pm – 2:40 pm	<p align="center"><b>Land-climate interactions (C7)</b> <i>Sushama (UQAM), Diro (PDF-UQAM), Verseghy (EC), Samuelsson (SMHI)</i></p> <ul style="list-style-type: none"> <li>• Snow-atmosphere coupling over North America in the fifth generation of the Canadian Regional Climate Model (CRCM5)</li> </ul>
2:40 pm – 2:55 pm	<p align="center"><b>EC-CNRCWP Collaboration</b> <i>Verseghy (Environment Canada)</i></p>
<p><b>Theme B: Statistical extremes allowed by fine mesh and land-atmosphere feedbacks</b></p>	
2:55 pm – 3:10 pm	Theme B: Talk by theme leaders
3:10 pm – 3:40 pm	<p align="center"><b>Distinguishing regional climate changes from natural variability (B1)</b> <i>Zwiers (PCIC), Zhang (EC) and Whan (PDF-UVic)</i></p> <ul style="list-style-type: none"> <li>• Evaluation of regional climate models: extreme indices, statistical extremes and relationships with circulation</li> <li>• Towards more robust design value estimates</li> </ul>
<p><b>3:40 pm – 4:00 pm Health Break</b></p>	
4:00 pm – 4:30 pm	<p align="center"><b>Hydrological floods and droughts in future climate (B2)</b> <i>Sushama (UQAM), Yang (MSc-UQAM), Diro (PDF-UQAM), Khaliq (NRC), Jeong (RA-UQAM)</i></p> <ul style="list-style-type: none"> <li>• Projected changes to heat waves and hot/cold spells over Canada based on an RCM ensemble</li> <li>• Role of land-atmosphere interactions on future summer hot spells</li> <li>• Intra- and inter- seasonal variability of land-atmosphere coupling over Canada in CRCM5</li> </ul>
<p><b>Presentations by end users</b> <i>Huard and Logan (Ouranos), Zwiers (PCIC)</i></p>	
4:30 pm – 5:00 pm	<ul style="list-style-type: none"> <li>• Regional climate modeling's place in assessing future impacts of climate change : A climate services viewpoint</li> </ul>
<p><b>Special closed meetings</b></p>	
5:00 pm – 6:00 pm	SAB meeting with end users/students (PK 3210)
	Co-Investigators meeting (PK 6120)
6:30 pm – 8:30 pm	Dinner (Agora, UQAM)

<p><b>Friday, May 1<sup>st</sup></b> <b>Science meeting (Day 2)</b></p>	<p><b>UQAM, Agora Hydro-Québec (CO-R500)</b> <b>175, President Kennedy, Montreal, Canada</b></p>
<p><b>Theme A: Specific weather and climate phenomena permitted by high-resolution</b></p>	
9:00 am – 9:15 am	Theme A: Talk by theme leaders

9:15 am – 10:00 am	<p><b>Large-scale environments favourable to the extreme precipitation events (A1)</b> <i>Gyakum (McGill), Gervais (PhD-McGill), Twidle (MSc-McGill) and Wood (MSc-McGill)</i></p> <ul style="list-style-type: none"> <li>• The evolution of Arctic air masses in a warming world</li> <li>• Extreme cases of tropospheric convergence of moisture transport and their relationships to precipitation for the US Midwest</li> <li>• Extremes in equivalent potential temperature in Montreal, Quebec: Dynamic implications</li> </ul>
10:00 am – 10:20 am	<p><b>Freezing rain occurrence and severity changes in future climate (A2)</b> <i>Thériault (UQAM), Cholette (PhD-UQAM), St-Pierre (intern-UQAM)</i></p> <ul style="list-style-type: none"> <li>• Update on the formation mechanisms and occurrence of freezing rain</li> </ul>
10:20 am – 10:40 am	<p><b>Storm track changes in future climate (A3)</b> <i>Gachon (UQAM) and Poan (PDF-UQAM)</i></p> <ul style="list-style-type: none"> <li>• Variability and change in storm track characteristics from Regional Climate Model perspective</li> </ul>
<b>10:40 am – 11:00 am Health Break</b>	
11:00 am – 12:00 pm	<p><b>RCMs' added value in simulating significant weather events (A4)</b> <i>Laprise (UQAM), de Elia (Ouranos), Paquin (Ouranos), Thériault (UQAM), Lucas-Picher (RA-UQAM), Insa Diop (PhD-UQAM), Bresson (PDF-UQAM) and Di Luca (PDF-UNSW Australia)</i></p> <ul style="list-style-type: none"> <li>• Evidence of added value in North American regional climate model simulations using ever-increasing horizontal resolutions</li> <li>• Dependence of RCM-downscaled precipitation on model resolution</li> <li>• Diagnostics of freezing rain in high-resolution RCMs</li> <li>• Do RCMs provide a general improvement of the simulated climate with respect to the coarser driving data?</li> </ul>
12:00 pm – 1:00 pm	<p><b>Discussion session</b> <b>Workshop Summary and concluding remarks by CNRCWP Principal Investigator</b></p>
<b>1:00 pm – 2:00 pm (Lunch &amp; posters)</b>	
<b>Special meetings</b>	
2:00 pm – 4:00 pm	SAB/SSC (closed) meeting (PK6120)
5:00 pm – 7:00 pm	'5 à 7' for Network HQPs ("Le Sainte-Elisabeth", 1412, Sainte-Elisabeth)
6:30 pm – 8:30 pm	SAB and Co-Investigators dinner

**Sunday, May 3<sup>rd</sup>**

NSERC meeting of CCAR Networks (1:00 pm – 5:00 pm, PK1350)



Canadian Network for Regional Climate  
and Weather Processes  
Science meeting  
UQAM, April 30-May 1, 2015



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## Participating universities and organizations

