

Gaps and needs from user perspective

What are the issues/problems?

Users' goals/requirements /needs

Are the resources available sufficient?

Bridge the gap Research/users

How will you benefit from your involvement in the project?

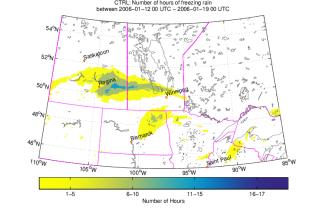
How are we going to achieve these goals?

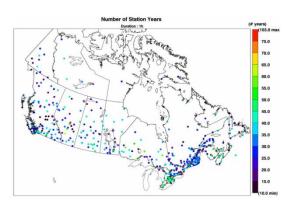


Science progress and needs

- What are the main issues?
- What are the opportunities?

Observed/historical data and events



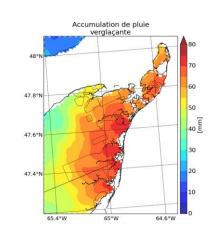


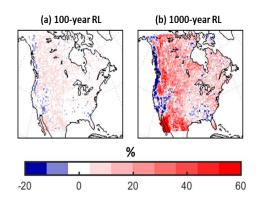
Future projections, intensity changes

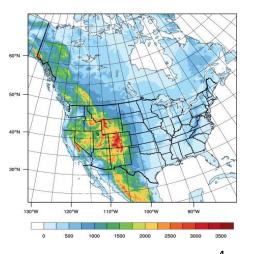
New WRF simulations

Historical simulations

Return periods









Funding renewal

Funding renewal

- Expand the scope of research topics: investigating teleconnection patterns (El-Nino, PDO, NAO,...)
- Incorporate information from improved models (CMIP6 and WRF -4km), and from improved observational and user-provided datasets
- Expand on linkages within GWF

No funding renewal

How to manage commitments that will extend beyond phase 1?



Work plan for year 3

What do we have?

- Information from users on specific extreme events relevant for each sector
- Lots of model products with various temporal and spatial characteristics
- Knowledge about the science and the observational/model tools

How are we addressing user needs?

Continue:

- the implementation and evaluation of WRF model over North-America
- producing estimates of the change of the severity of extremes by comparing the WRF historical and PGW simulations
- producing and documenting statistical estimates of relevant changes in hail, heavy rain and freezing precipitation

Work plan for year 3

- analyzing climate extremes indicators relevant to each sector
- identifying precipitation distribution, intensity and types during storms that caused damages to infrastructure
- assessing the advantages of treating extreme events as compound events
- assessing the potential for improving IDF curves and projecting IDF curve change- the
 Generalize Extreme Value distribution

Work plan for year 3

- Continuously check with each user and update their needs (regular calls, meetings, ...)
- Final workshop to ensure that user needs have been met and to receive user feedback on 'what next' for years 4-7
- Ensure all data/model/analysis activities and progress have been documented and/or evaluated

Important deadlines

- 2nd GWF ASM- registration deadline: April 1, 2019
- Annual Progress Report 2018-19: April 30, 2019
 - Changes in the scheduled budget?
 - A list of publications and academic presentations
 - NEW HQPs (hired during the period April 1, 2018 to March 31, 2019) need to complete an online Self-Identification form on the CFREF website

Shared links with Health Canada

 Contribution to the UNEP Adaptation Gap report which discuss the important role of early warning and climate modelling(Theme – climate change and health)

https://www.unenvironment.org/news-and-stories/press-release/growing-gap-between-ambition-and-action-world-prepares-future

 The 2018 report of the Lancet Countdown on health and climate change: shaping the health of nations for centuries to come

https://www.thelancet.com/action/showPdf?pii=S0140-6736%2818%2932594-7

Lancet Countdown 2018 Report: Briefing for Canadian Policymakers

https://cape.ca/wp-content/uploads/2018/11/2018-Lancet-Countdown-Policy-Brief-Canada.pdf

WHO Special Report on Climate and Health

https://apps.who.int/iris/handle/10665/276405