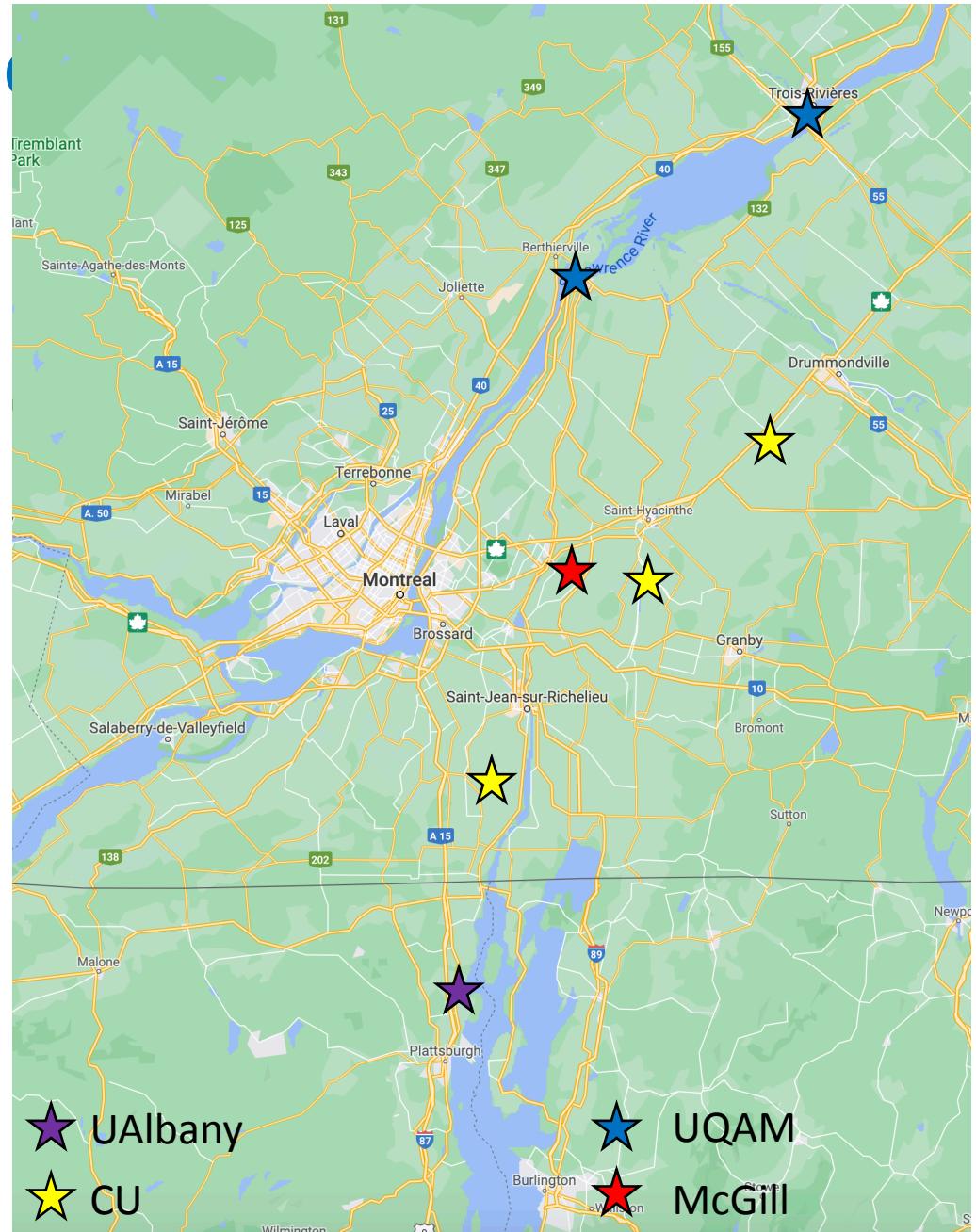


# WINTRE-MIX Sounding Operations

## Proposed Format:

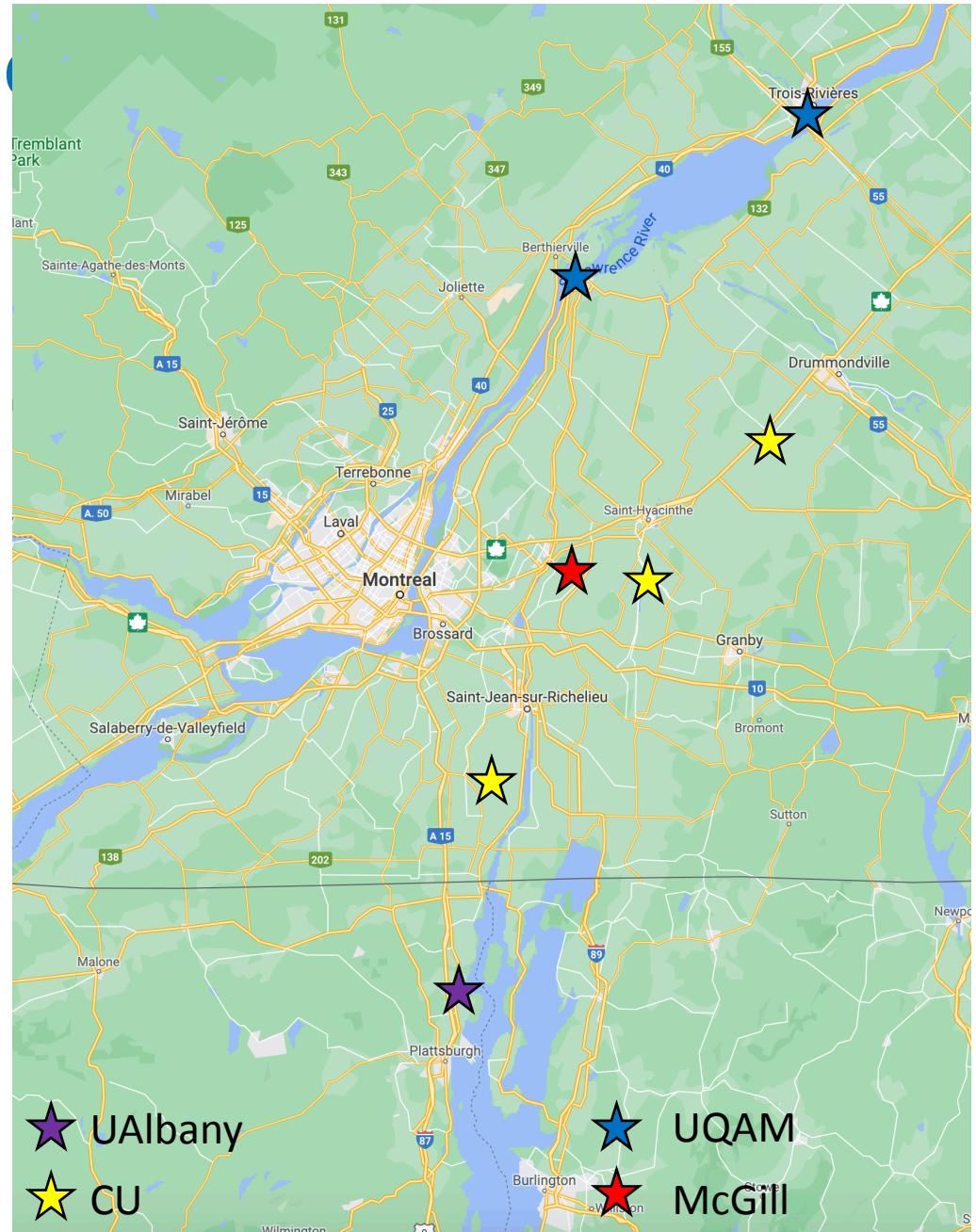
- Synchronized launches every ~90 minutes.
- Soundings to bookend operations and to capture the initial and final environments (+/-6 hours and at the start/stop of radar ops).



# WINTRE-MIX Sounding Operations

## Proposed Format:

- Synchronized launches every ~90 minutes.
- Soundings to bookend operations and to capture the initial and final environments (+/-6 hours and at the start/stop of radar ops).
- **Discussion Questions:**
  - These “bookend” soundings do not need to be conducted everywhere...
  - Should we conduct soundings from Gault –/+ 6 hours from IOP?
  - Soundings from around takeoff time (30–60 mins before) would be necessary for flight ops – coincide with start of radar ops possibly?.



# WINTRE-MIX Sounding Operations

## Coordination:

### • **Discussion Questions:**

- Who serves as the lead for sounding operations/ coordinator for launch times?
- How do we share data/plots after a launch? Do we want to use some consistent plotting scripts? Who should upload them to the Data Catalog?
- How should we coordinate frequencies used for sounding systems to avoid interference? Should we set up a slack channel for communication?
- What procedures are needed to coordinate with ATC on launches? Should the sounding coordinator do this on behalf of all groups?
- How should we standardize rise-rate between sondes using a common inflation strategy (slow versus fast rise → sampling detail)?

## Proposed Solutions:

Separate from DOWs – one sounding coordinator. At least someone who is consistent in that role. Ops center may be a bit disconnected - someone with boots on the ground preferable instead. Someone at Gault may have less responsibilities and can be a good candidate to coordinate launches. May need to have potential coordination with IMPACTS sounding teams too.

Good to produce a common visualization format, plotting capabilities. Internet versus Vaisala. May be tough to upload data with other responsibilities (snow crystal photography).

Slack good for last minute information exchange. Better to use existing chat capabilities? Internet could be solid. Information needs to be well organized – multiple channels.

Goes through sounding coordinator. Try to send list of times/locations at one time to ATC. May change across the border. Checklist for things to do.

How deep should we capture profiles? Avoid too much precipitation loading. Err towards over-inflation.