

## Meeting 8: 21 June 2018 - 11 AM EDT

Participants: Julie, Stephen, Andre, Greg, Juris (minutes recorder)

### Installation at Kootenay Crossing

- Western side weather station installation this September at Kootenay Crossing
- We will only know a few months in advance who will be working the site
  - John (U of S), Julie (UQAM) and Stephen (UNBC) to be lead names
- Greg to inquire about:
  - Parking an enclosed trailer beside the fenced area close to the MRR and weather instrumentation
  - Pop up tent for macrophotography of precipitation
  - Camping at Kootenay
- Permit questions:
  - Will be visiting site during weather station maintenance and everytime there is a storm. This can be during the day and overnight
  - Do we need to forewarn Kootenay Park prior to site visitation?
    - Not the case for Greg when they were working on regular maintenance
  - Stephen - to inquire with Nipika to see if we can camp there
- Juris - add picture of fenced off area in Kootenay Crossing on blog
  - Send picture to Greg
- Juris - look for outhouses on Google Earth near Kootenay Crossing

### Communication

- Cold water lab uses InReach satellite device for emergency purposes when in remote backcountry where there is no cellular coverage
- Greg recommends having satellite phone for troubleshooting
- Will need to purchase InReach
  - Stephen - looking into purchasing InReach satellite device for western side
  - Juris - look into costs of satellite devices and satellite phones
    - <https://www.tripsavvy.com/gadgets-for-backcountry-communication-4066040>
    - Garmin inReach SE+ \$400
      - Allows you to pair with cell phone and send 160 character text messages
      - Need garmin subscription
- Fortress Mountain
  - Wifi at fortress
  - 1 bar of reception at top of Fortress
- On Highway 40 there is reception near Nakiska ski resort
- Gas Station at base of Fortress Mountain has no cell service

- Talked to Adrienne and there is no cellular reception at Barrier Lake - Mt. Baldy blocks reception
  - But there have been upgrades to the wifi in 2016 and additional upgrades this summer (2018)

### Data Transfer

- Greg - Cell telemetry, radios and ghost satellites to transfer data for remote sites
- Permit with ghost satellites in Canmore, pay for license, and you have a certain number of addresses. Might have additional addresses for transmitters. Mostly used for areas that are hard to get to.

### Accommodations

- 3 duplexes at Barrier Lake
- Those working at the BC site will need to travel from Barrier Lake
  - 3 people from UNBC, 3 from UQAM, Andre (UofS), Juris
- Ask Adrienne about renting a duplex at Barrier Lake for April

### Haig Glacier

- Shawn Marshall will be in charge of installing tipping buckets and met stations on glacier
- Julie assumes that a permit is already in place (to be confirmed)

### Fortress Mountain gas station

- Greg - Amendment for permit for Fortress gas station - Greg to look into this and where we could install
  - Radio transfer data from gas station to Fortress Mountain cellular station

### Instrumentation/Trailer

- Julie - ECCC in Saskatoon might have a trailer that we can borrow (Julie to follow up)
- Stephen - Geonor running in backyard. Comparing to Texas tipping bucket using thunderstorm data
- ECCC installing instrumentation in April including MRR at western site
- We are missing a second MRR
  - Might receive 2 from NCAR last minute but if not need to purchase one in December at the latest.

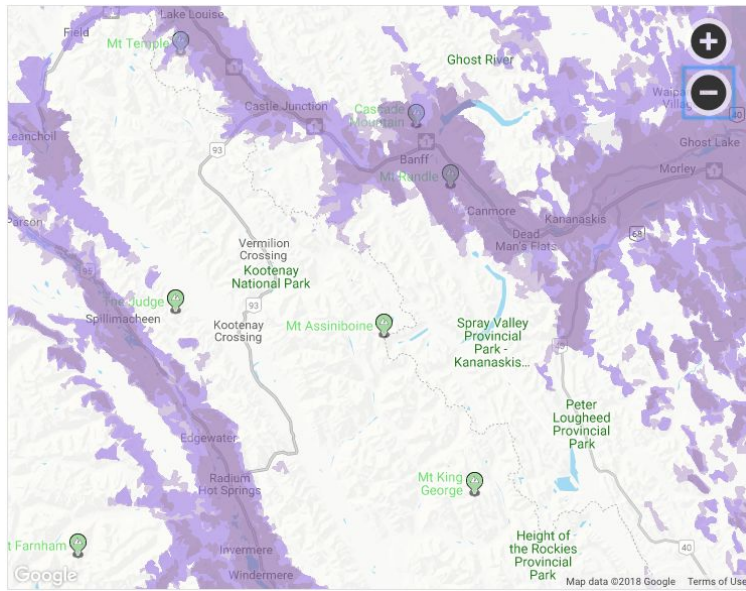
### Next Meeting

**July 9 @ 2 PM (EDT)** - Julie, Stephen and Juris

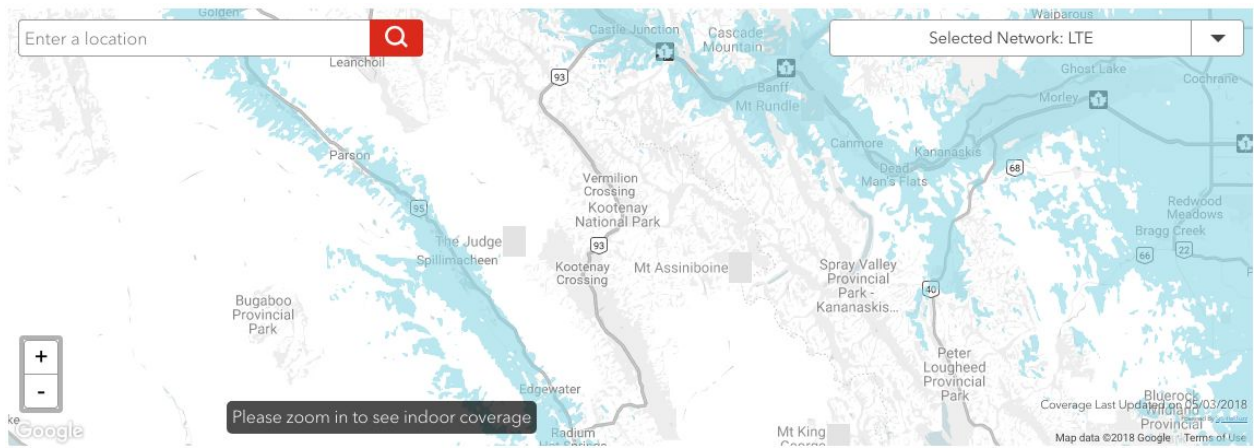
**July 16 @ 4 PM (EDT)** - All collaborators to discuss details about instrument deployment at western site

# Cellular Coverage

## Telus network coverage



## Rogers Network Coverage



# Bell Network Coverage

