

Hydrographs 101

Meeting 5
Vanderhoof
October 8, 2019



Hydrographs

- Presentation Objective: to provide a common understanding about hydrographs
- Why? Hydrographs will be a critical tool during WEI
- a tool for assessing trends (seasonal, monthly, annual) in data.
- Reasons for trends can be discerned by examining climate data, land use changes, etc.

Hydrographs

- Graphical representation of river flow over time
- How much water is flowing past a location: cms, m³/s, cfs
- Government, industry, academia stations
- Water Survey Canada monitoring stations

https://wateroffice.ec.gc.ca/google_map/google_map_e.html?map_type=real_time&search_type=province&province=BC



Jobs

Immigration

Travel

Business

Benefits

Health

Taxes

More services

Home → Environment and natural resources → Water level and flow → Real-Time Data

Real-Time Hydrometric Data Map Search

Province or Territory

British Columbia

WSC Region

Canada

Go

Note

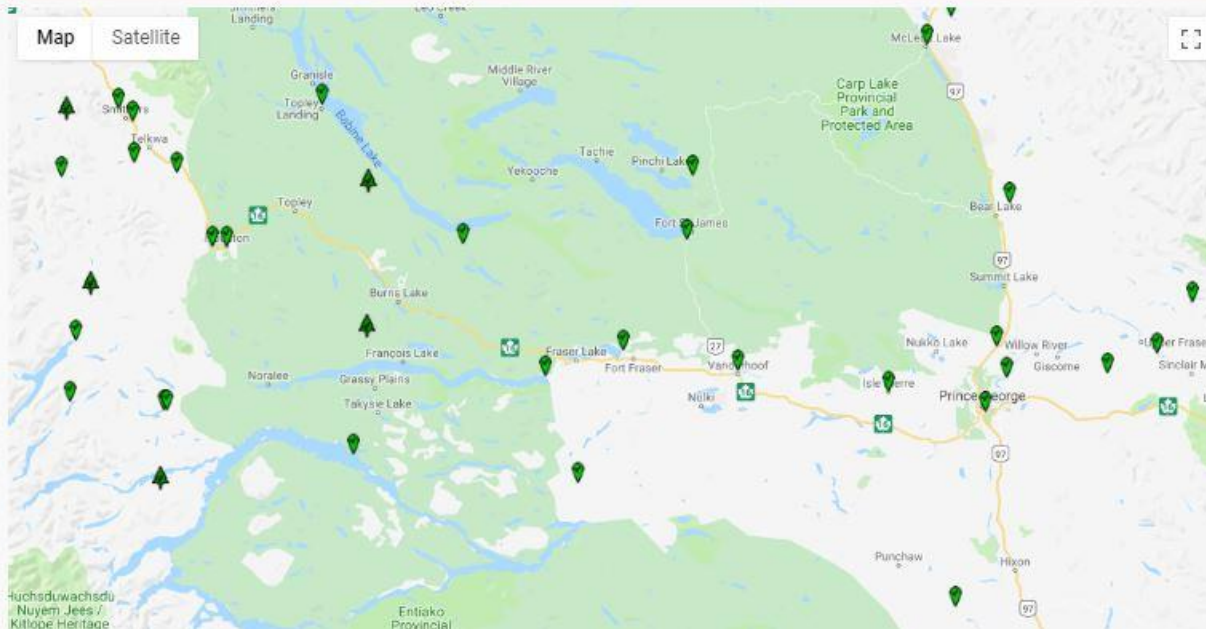
[More Info on Station Marker Locations](#)

Clicking the station marker will open an info window for the selected station.

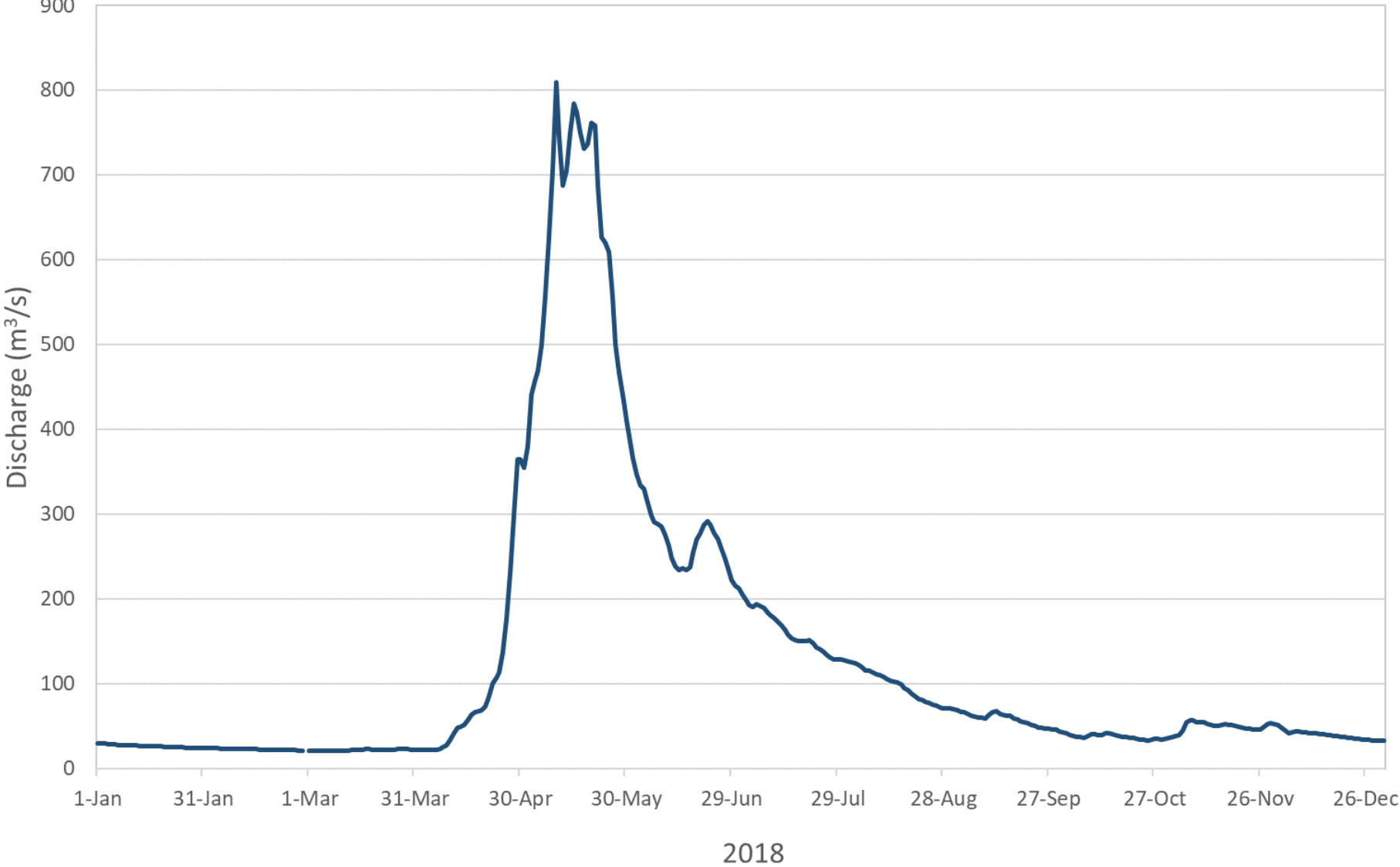
Please note that more data may be available on one of our [partner websites](#).

Note that the full map cannot be printed using the browser's print function. Please use screen capture to print the map.

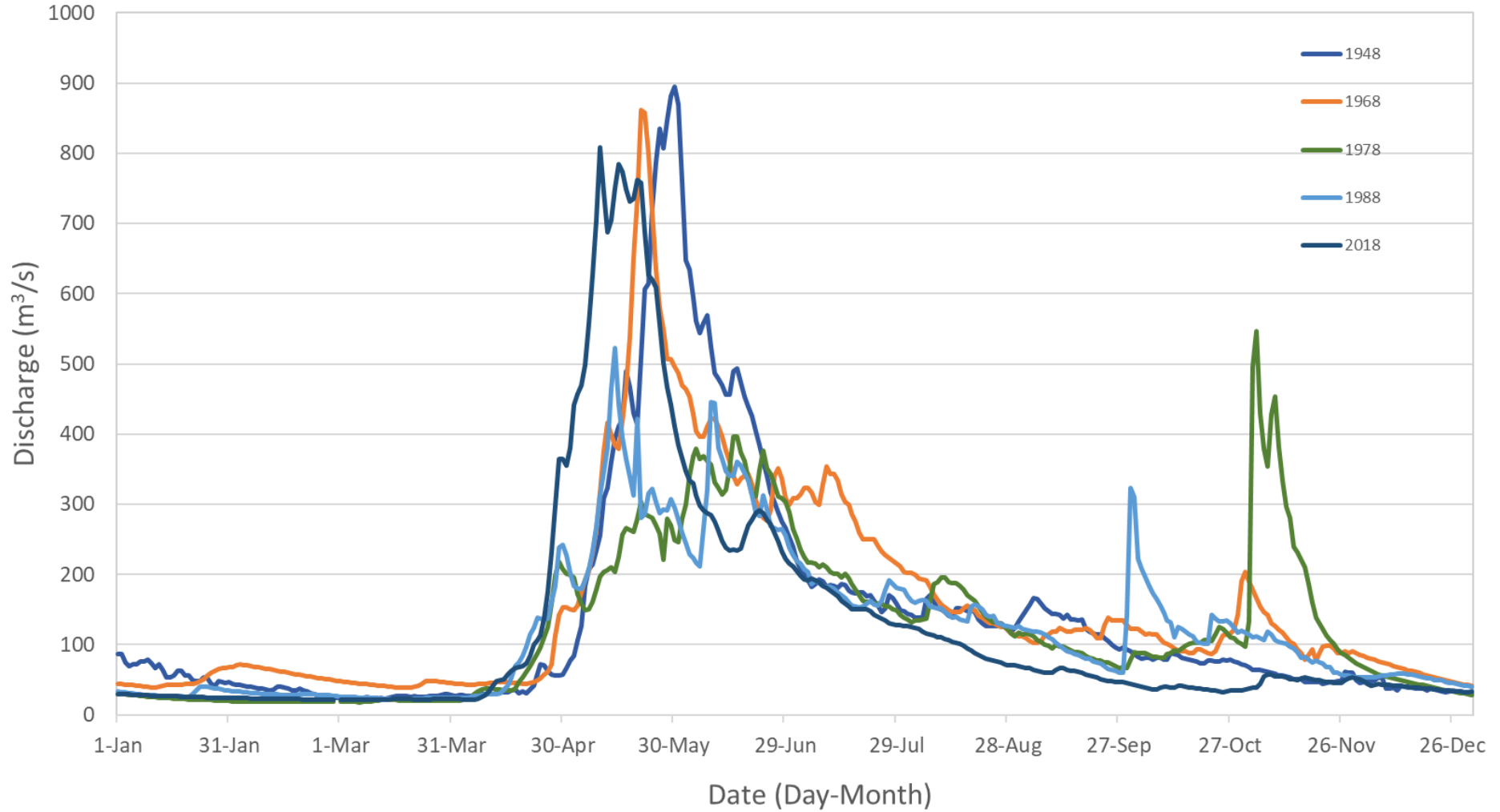
Map Controls



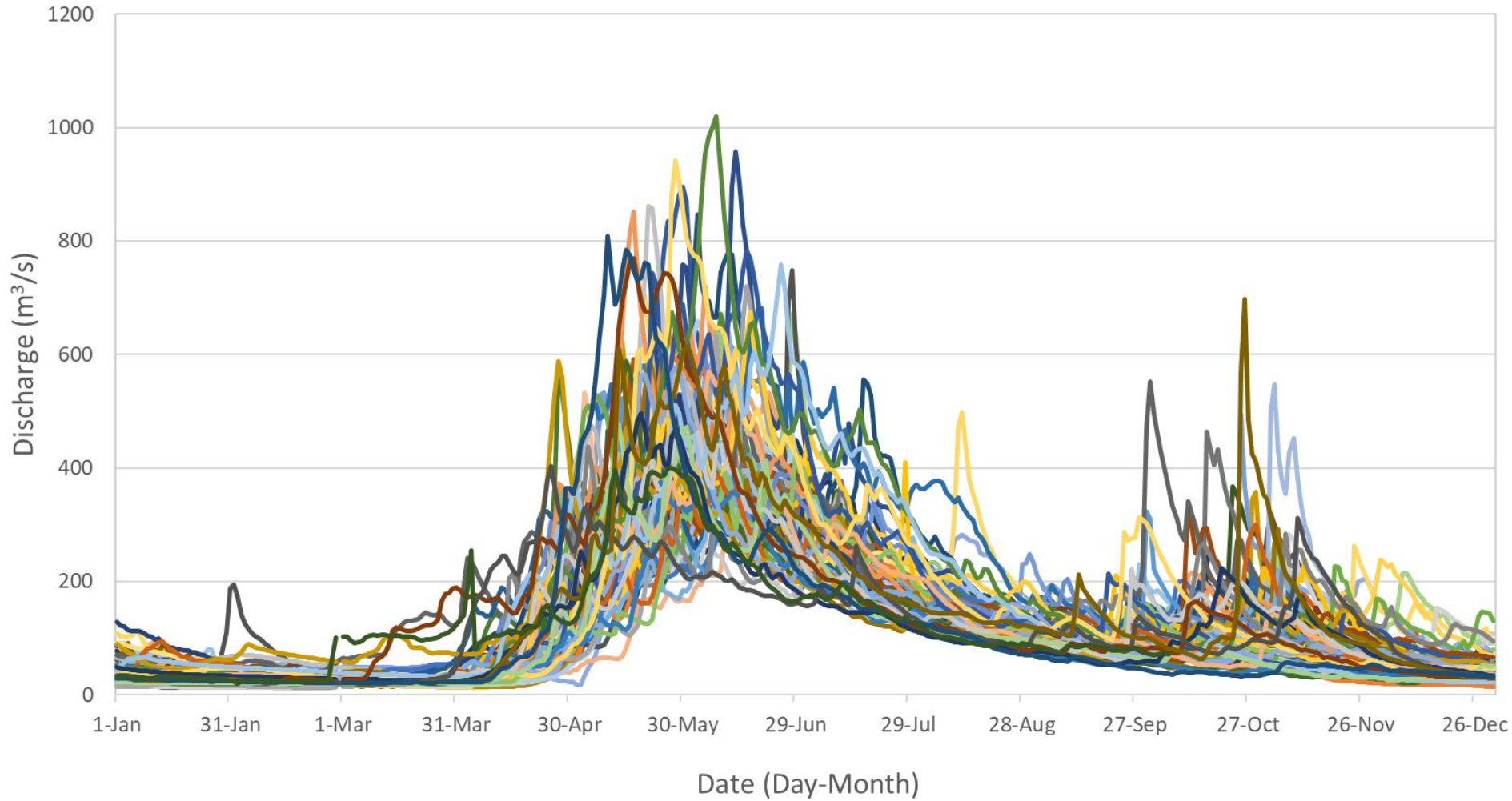
WSC Gauge: Bulkley River at Quick (08EE004)



WSC Gauge: Bulkley River at Quick (08EE004)



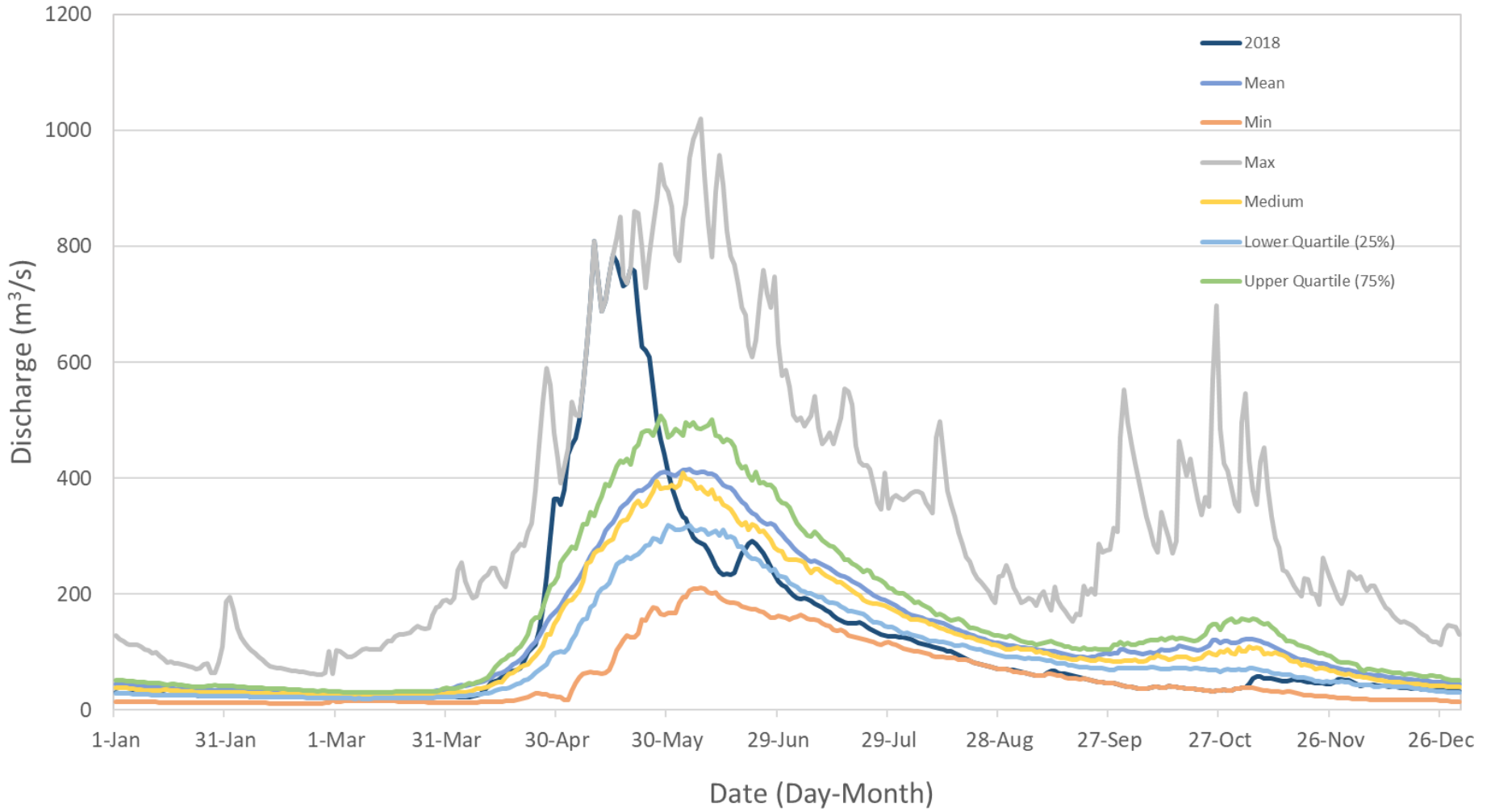
WSC Gauge: Bulkley River at Quick (08EE004)



Hydrographs

- All the data is confusing, how do we simplify it?
- Synthetic time series:
 - combine all the data from a time series for a given day and express as average, max, min, percentile
 - then combine each day into a “year”
 - Synthetic hydrograph never actually happens but it best represents the historical data

WSC Gauge: Bulkley River at Quick (08EE004)



Hydrographs

- 2 types in BC:
 - Snowpack driven interior
 - Rainfall driven coastal

Kitimat

Bulkley

