



RioTinto

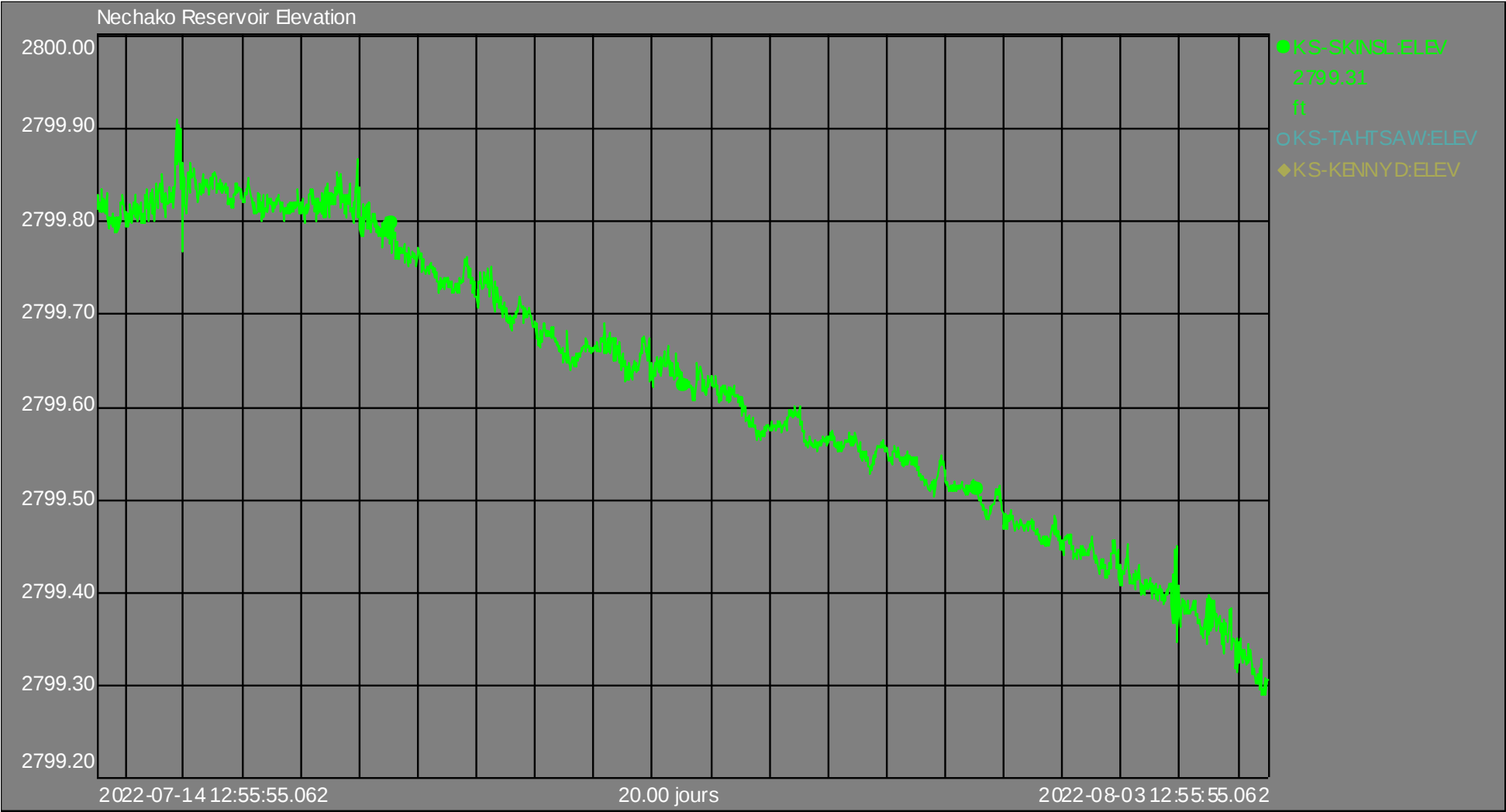
Nechako Reservoir / River / Freshet Information Sharing – Community Leaders

3 August 2022

Prepared by Alec Mercier & Gabrielle Dallaire

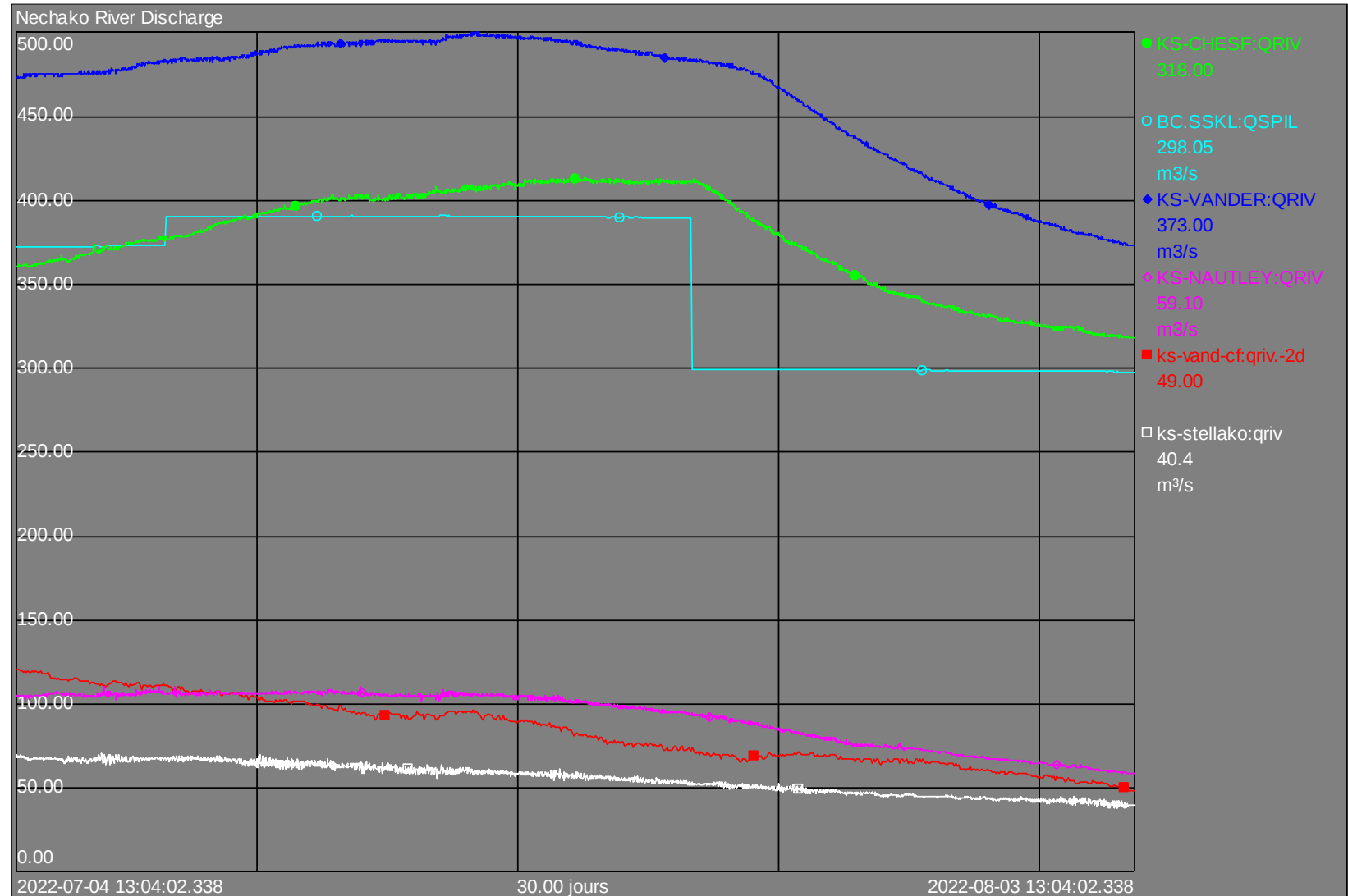
Reservoir Elevation - Last 20 days

Current reservoir
level: 2799.31 ft
Maximum: 2800.0 ft



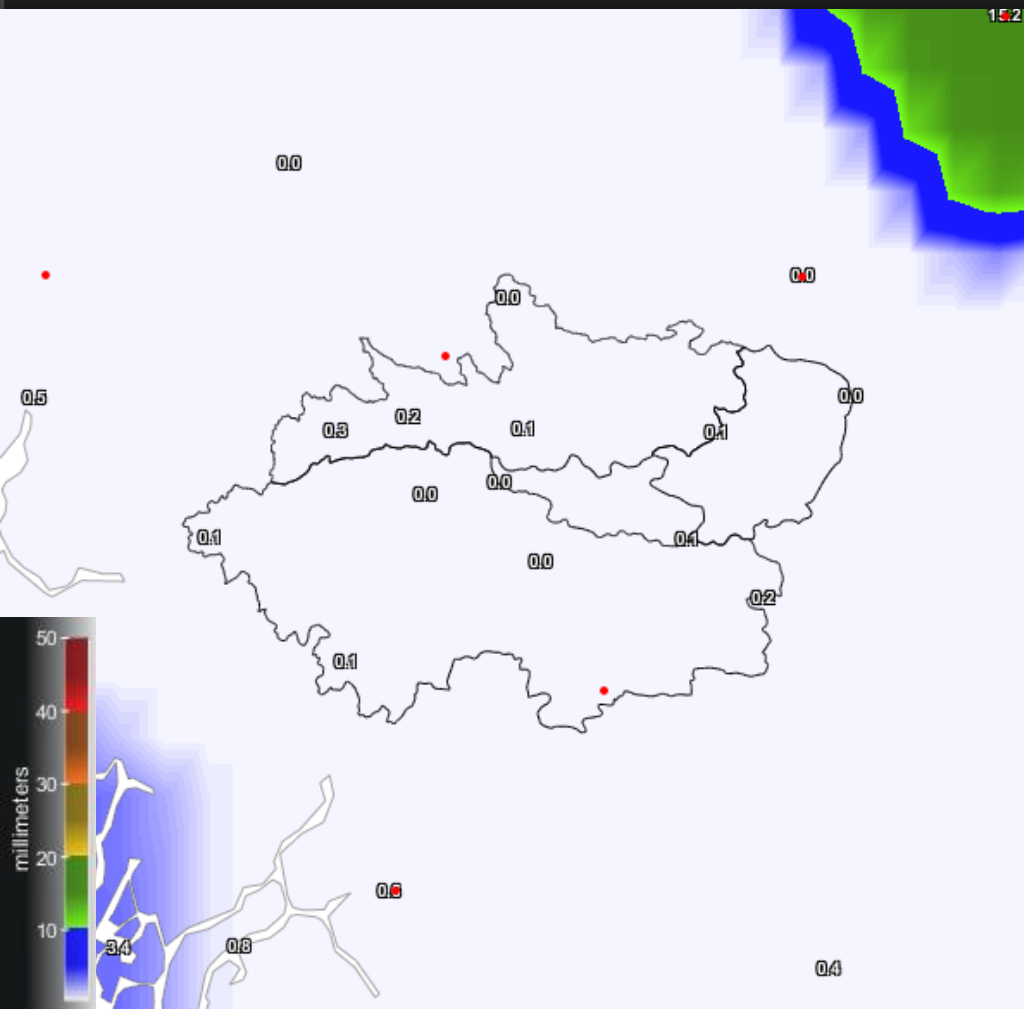
Flows - Last 30 days

Skins Lake: 298 cms
Vanderhoof: 373 cms
Cheslatta Falls: 318 cms
Nautley: 59 cms
Stellako: 40.4 cms

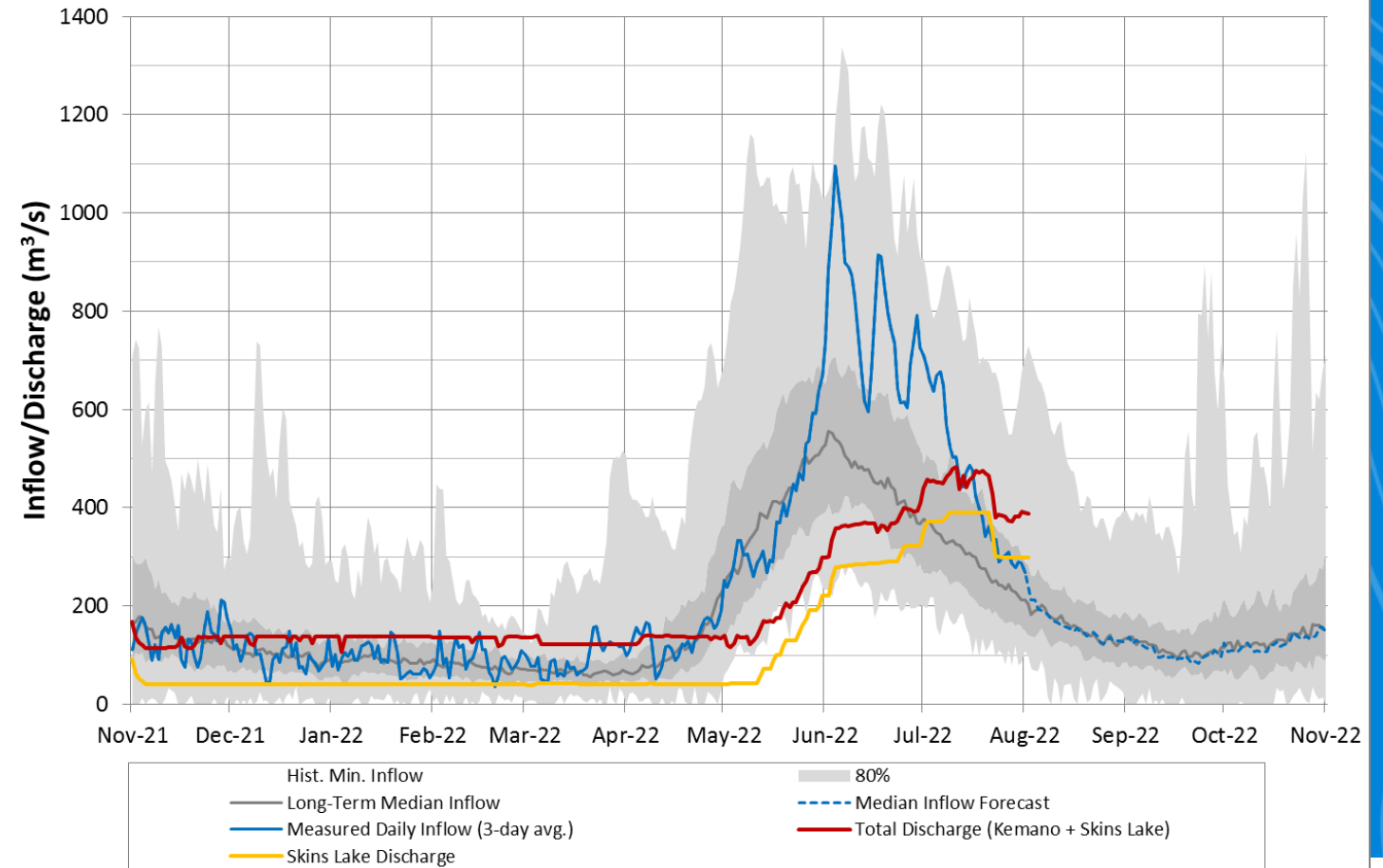


Observed Precipitation, Inflows vs Historical

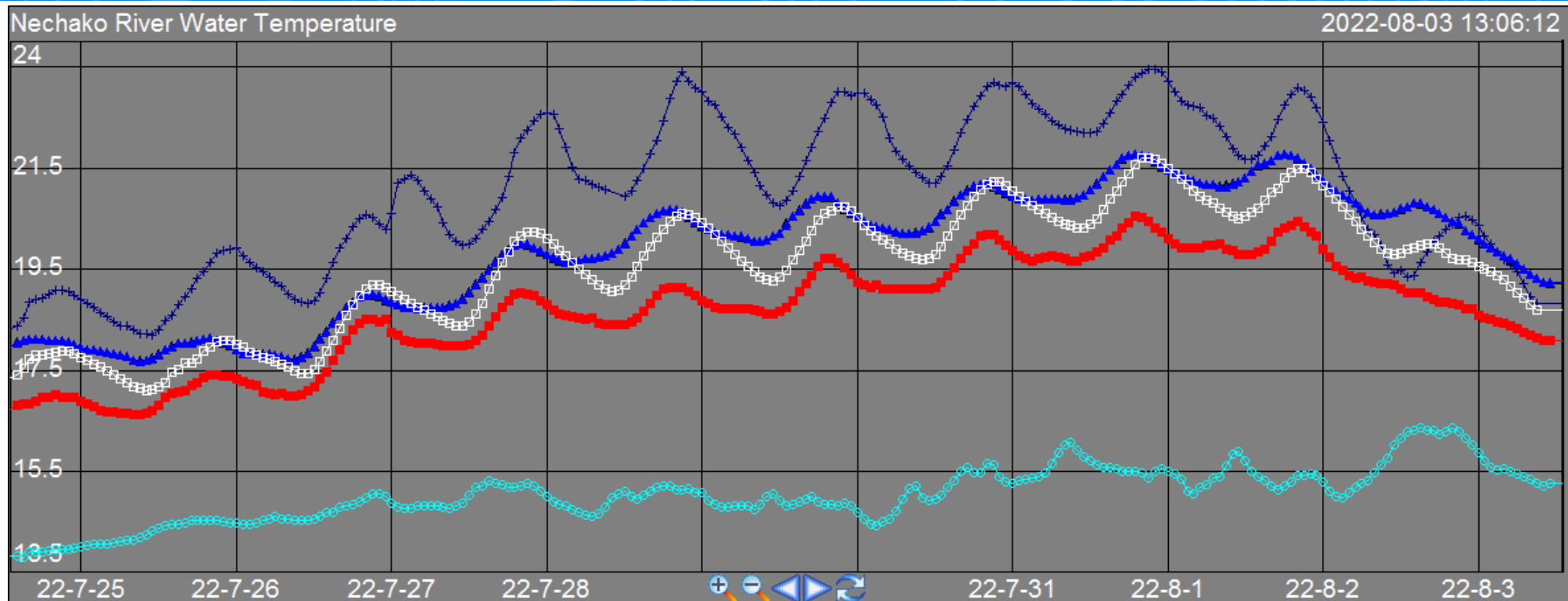
7-day cumulative rainfall



Nechako Reservoir Operation
Observed Inflow and Discharge 2021-2022



Observed Water Temperatures



- Temp. Moy. 15 min Upper water bellow spillway
- Temp. Moy. 15 min Upper water Fort Fraser
- Nechako River at Vanderhoof - water temperature
- ▲ Temp. Moy. 15 min low water Finmoore
- △ Temp. Moy. 15 min Upper water Finmoore
- + Nautley River - water temperature

Current values

15.25

19.22

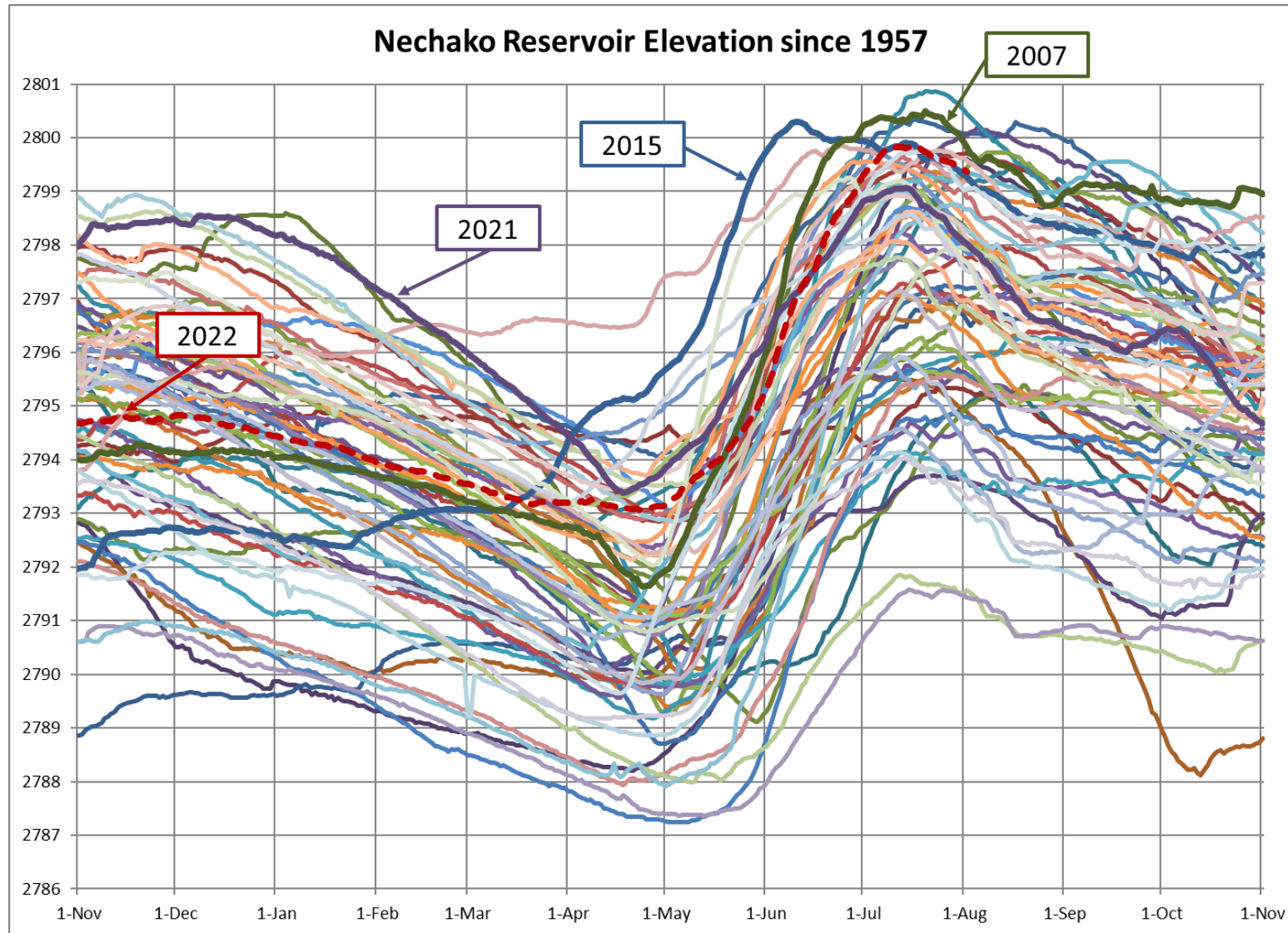
18.10

18.7

19.20

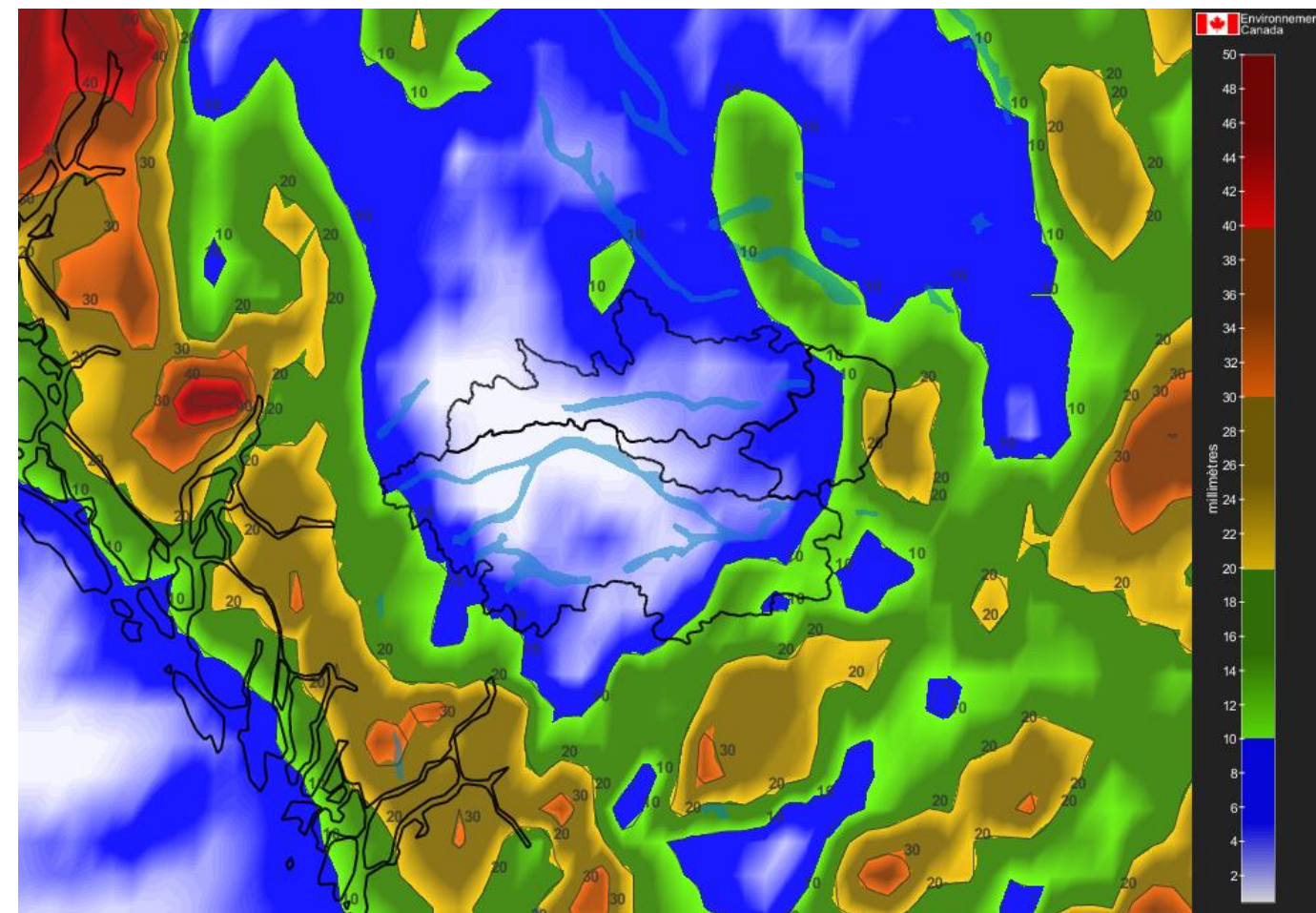
18.8

Historical Reservoir Elevation



7 Day Weather Forecast

Cumulative precipitation – 7 days



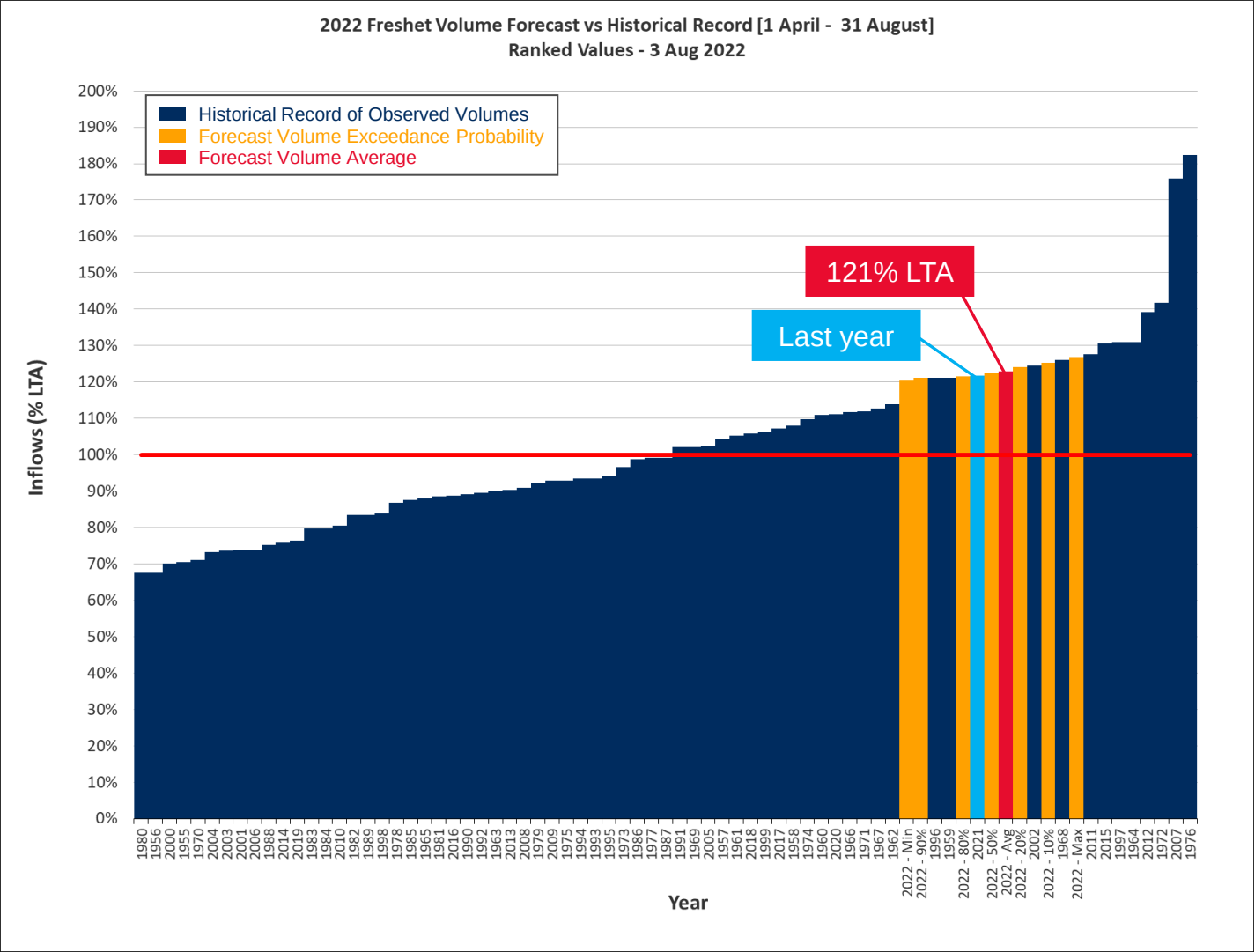
7 prochains jours

Burns Lake Weather



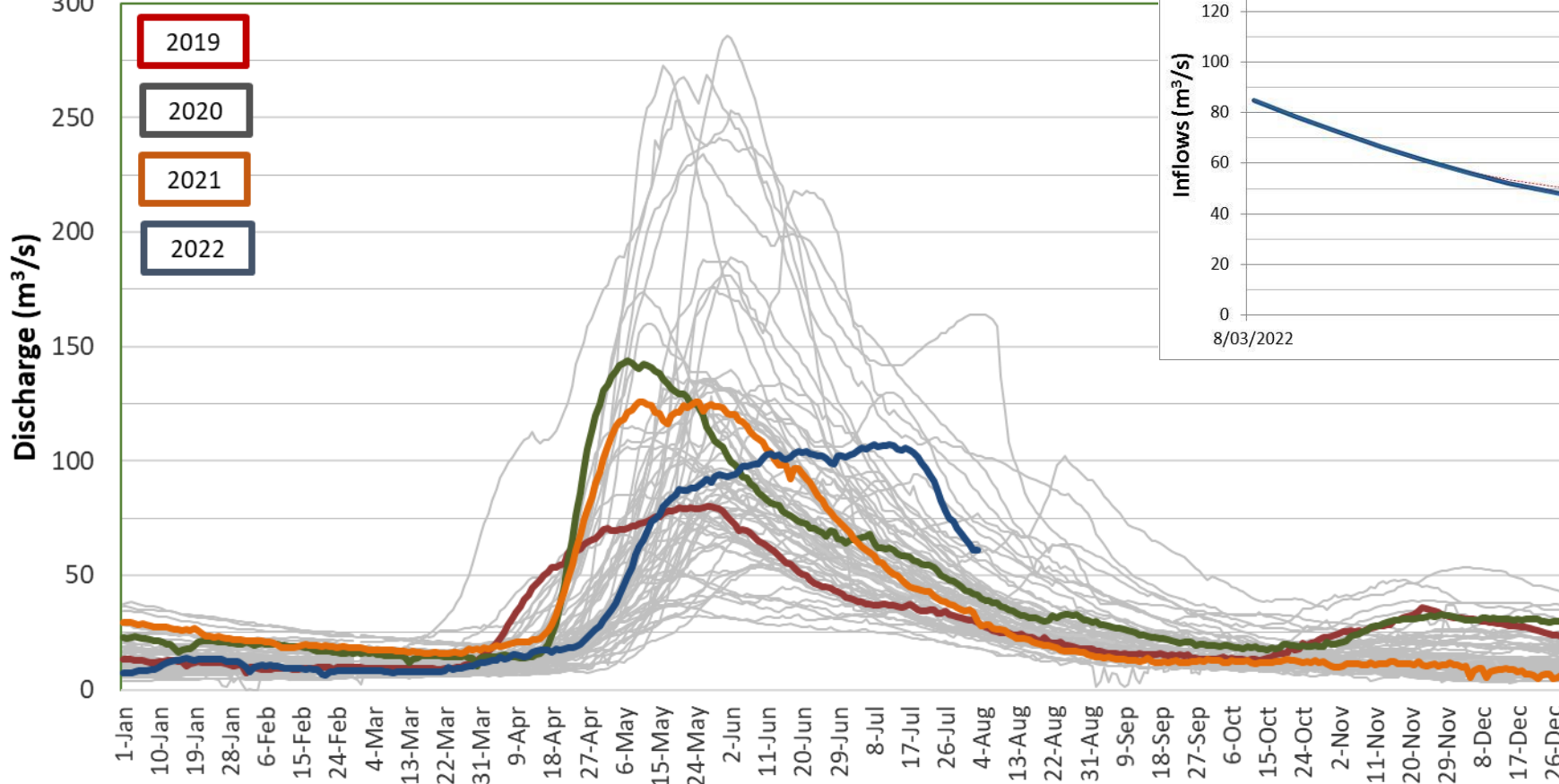
	jeu. 04/08	ven. 05/08	sam. 06/08	dim. 07/08	lun. 08/08	mar. 09/08	mer. 10/08
	Nuageux avec averses	Ensoleillé avec passages nuageux	Ciel variable	Ensoleillé	Ensoleillé	Ensoleillé avec passages nuageux	Ensoleillé
	16°	22°	23°	24°	25°	25°	24°
T. ressentie	16	22	25	24	25	25	24
Nuit	9°	12°	11°	11°	11°	13°	11°
P.D.P.	40 %	20 %	30 %	10 %	10 %	20 %	10 %
Vents (km/h)	14 N.-O.	10 o.	17 o.	14 o.	5 N.-O.	7 N.-O.	11 N.-O.
Rafales (km/h)	21	15	26	21	8	11	17
Ensol. (H)	2 h	9 h	5 h	13 h	14 h	9 h	15 h
Pluie 24 H	~1 mm	-	-	-	-	-	~1 mm

Spring Freshet Inflow Forecast



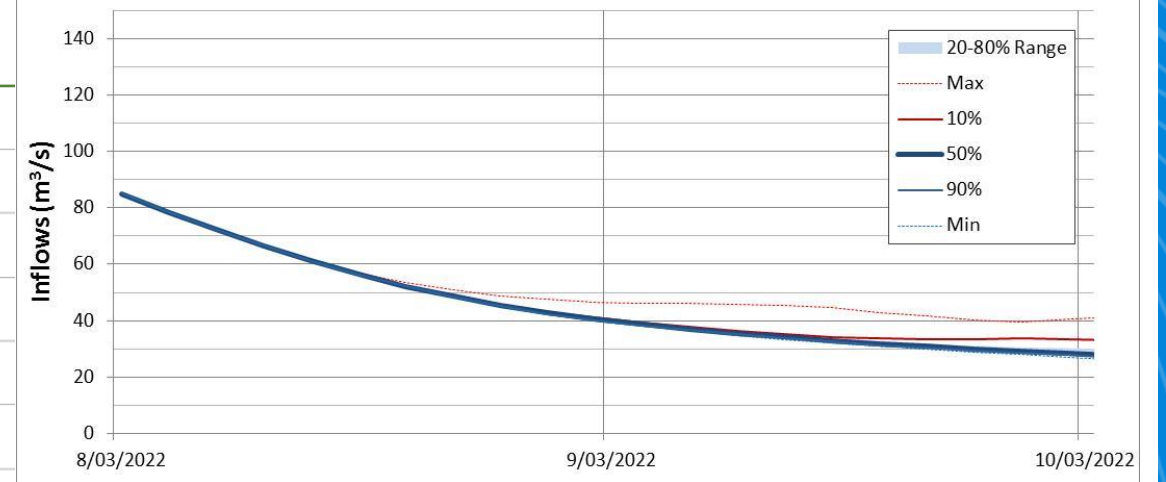
Nautley River Flows, Forecast

Nautley River discharge 1952-2022



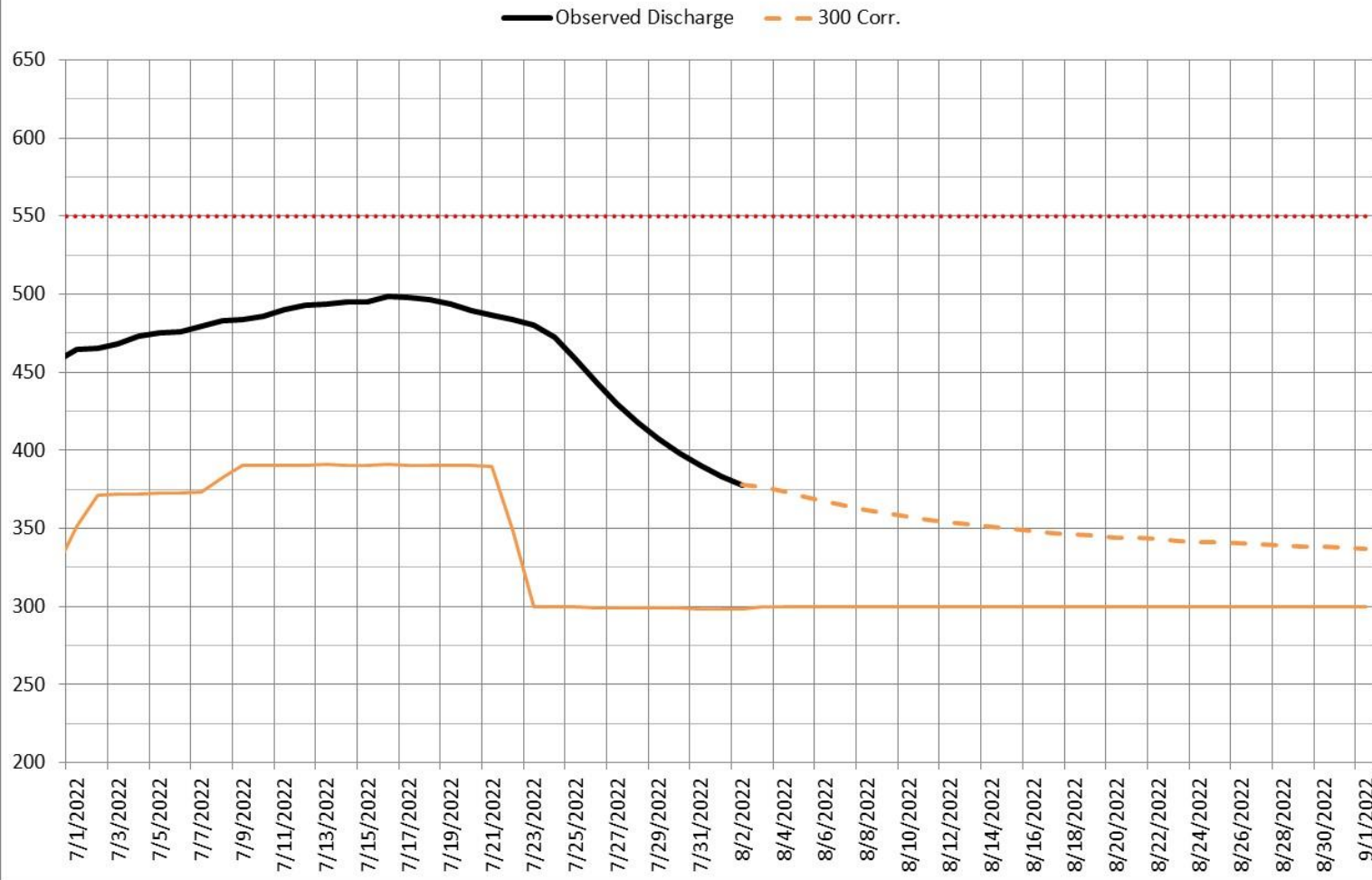
Expected Natural Inflow on Nautley/Nechako Rivers at Vanderhoof

(excludes discharge from Nechako Reservoir)

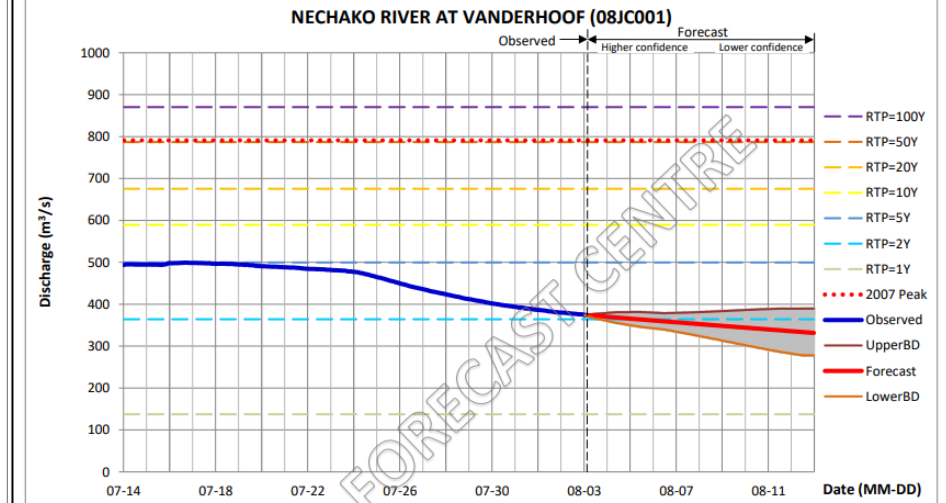


Forecast – Vanderhoof

Projected Discharge at Vanderhoof



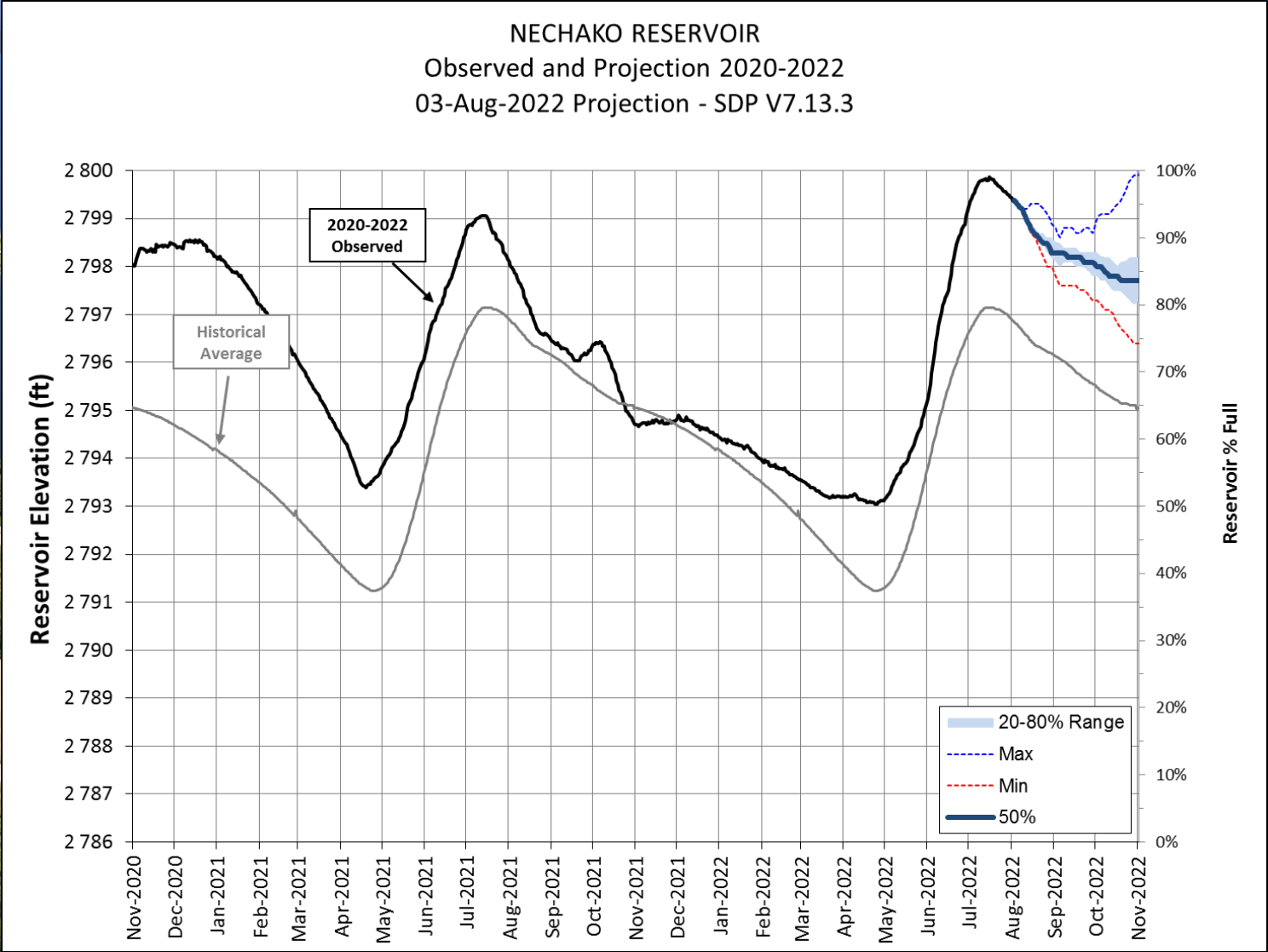
Note: Set "Check for newer version of stored pages" to "Every time I visit the webpage" and refresh browser frequently to view latest forecast.



Reading at 06 AM (m³/s)	Forecast Daily Discharge (m³/s): AVERAGE									
	UPPER BOUND					LOWER BOUND				
	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
2022-08-03	2022-08-03	2022-08-04	2022-08-05	2022-08-06	2022-08-07	2022-08-08	2022-08-09	2022-08-10	2022-08-11	2022-08-12
373.0	377.0	381.1	381.3	378.5	380.0	382.2	384.8	387.4	389.4	389.6
	371.7	367.9	363.5	359.1	354.8	350.5	346.2	342.0	337.8	333.6
	366.1	354.8	345.8	339.9	329.8	319.2	308.0	297.1	286.7	278.2
Color Scheme for Return Periods: RTP=1Y: 137.4 RTP=2Y: 364.1 RTP=5Y: 499.7 RTP=10Y: 589.4 RTP=20Y: 675.5 RTP=50Y: 786.9 RTP=100Y: 870.4 2007 Peak: 791.0 (m³/s)										

Remark: This station is labeled as "regulated", and the forecast is the sum of natural flows and extended regulated flow from 08JA017.

Reservoir Level Projection



Next Steps – Actions

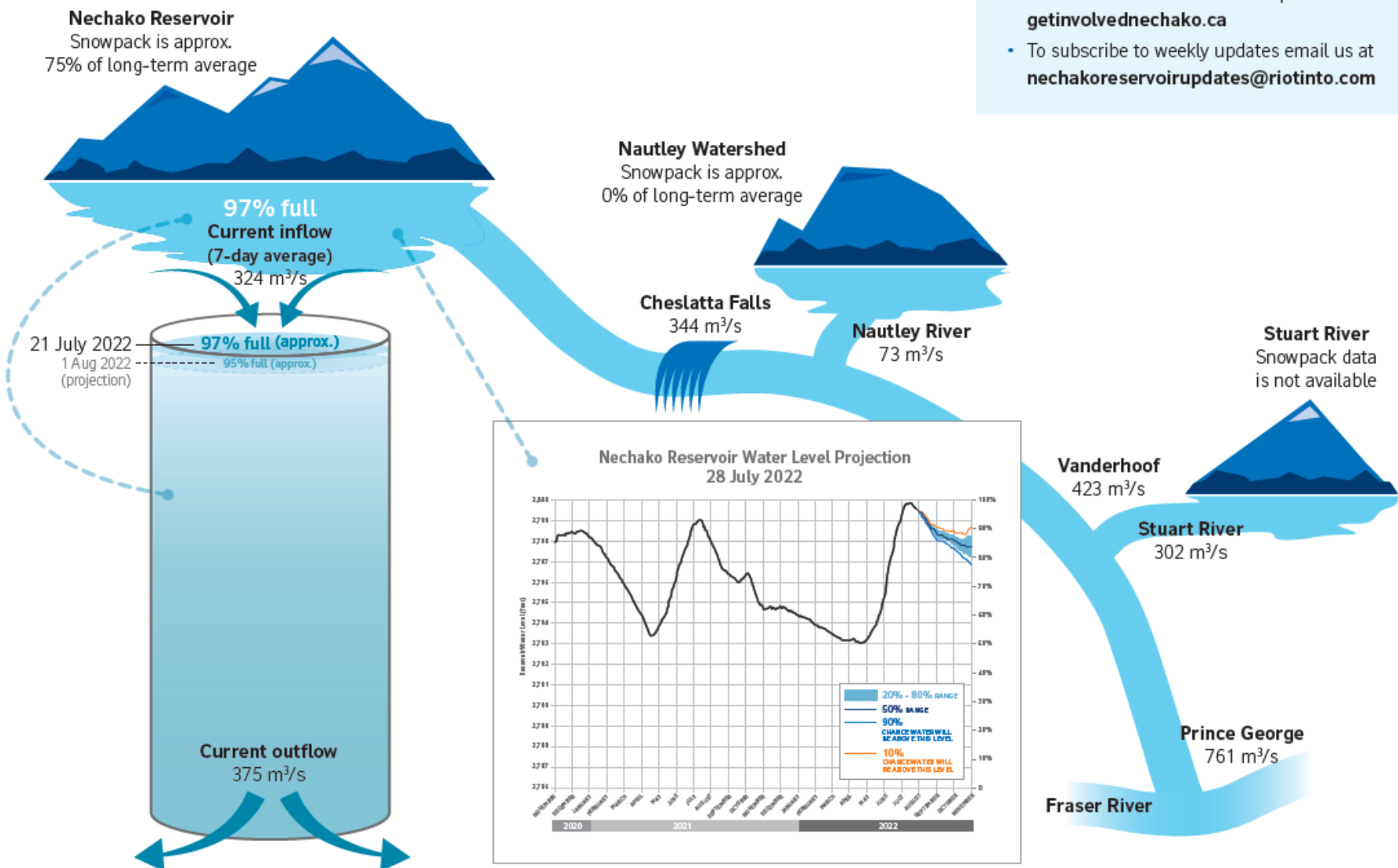


1. Model update and communications.
2. Monitoring work to learn from 2022 release
3. Continue to update on Smelter Re-Start
4. Confirm next meeting date – **10 or 17 August**

Presentations are available on the Get Involved Nechako website under 'Our Operations'. Recordings can be requested up to 30 days following the meeting.



Current Conditions - 28 July 2022



Nechako Reservoir operations update

- Skins Lake Spillway discharge will be maintained at 300 m³/s for the next week.
- For real time information and updates visit getinvolvednechako.ca
- To subscribe to weekly updates email us at nechakoreservoirupdates@riotinto.com

Feedback & Reflections

