



RioTinto

Nechako Reservoir / River / Freshet Information Sharing – Community Leaders

2 August 2023

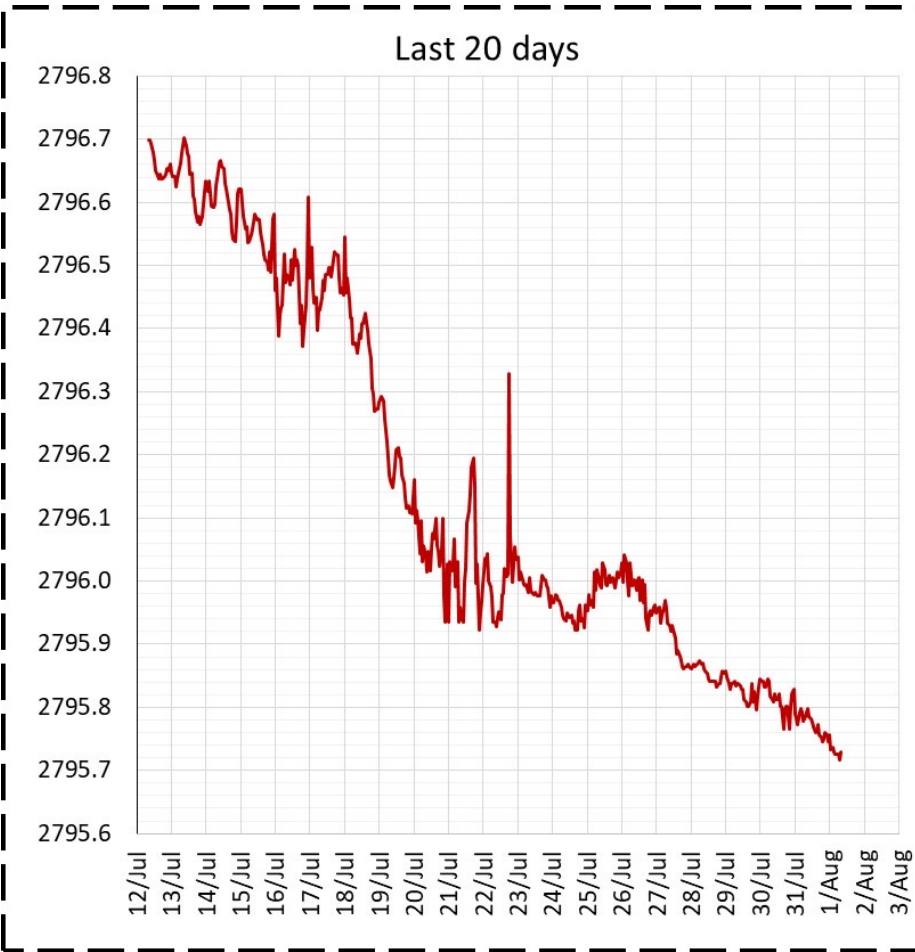
Prepared by Andrew Czornohalan & Alec Mercier

Reservoir Elevation - Last 20 days

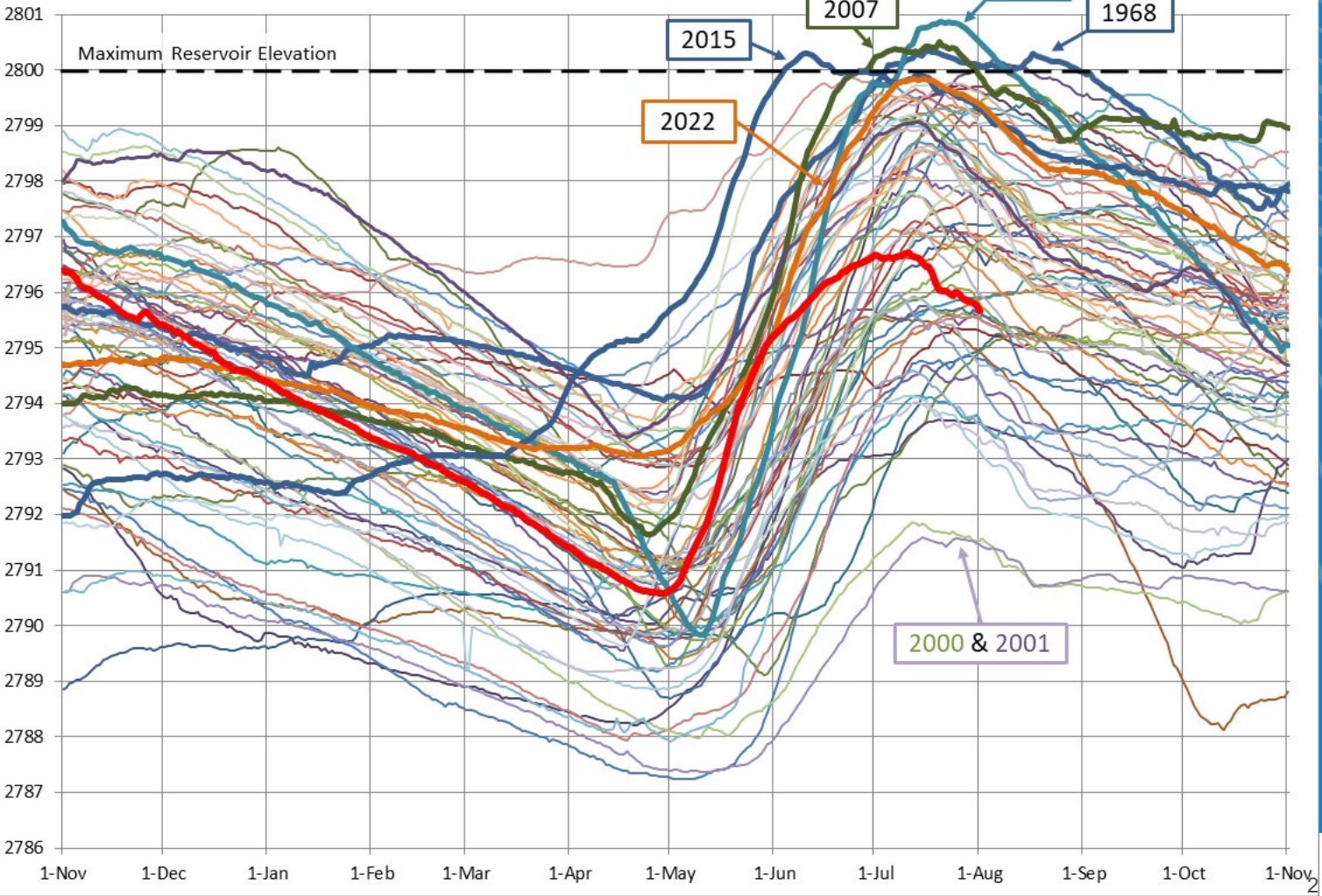
Current reservoir level

2795.73 ft

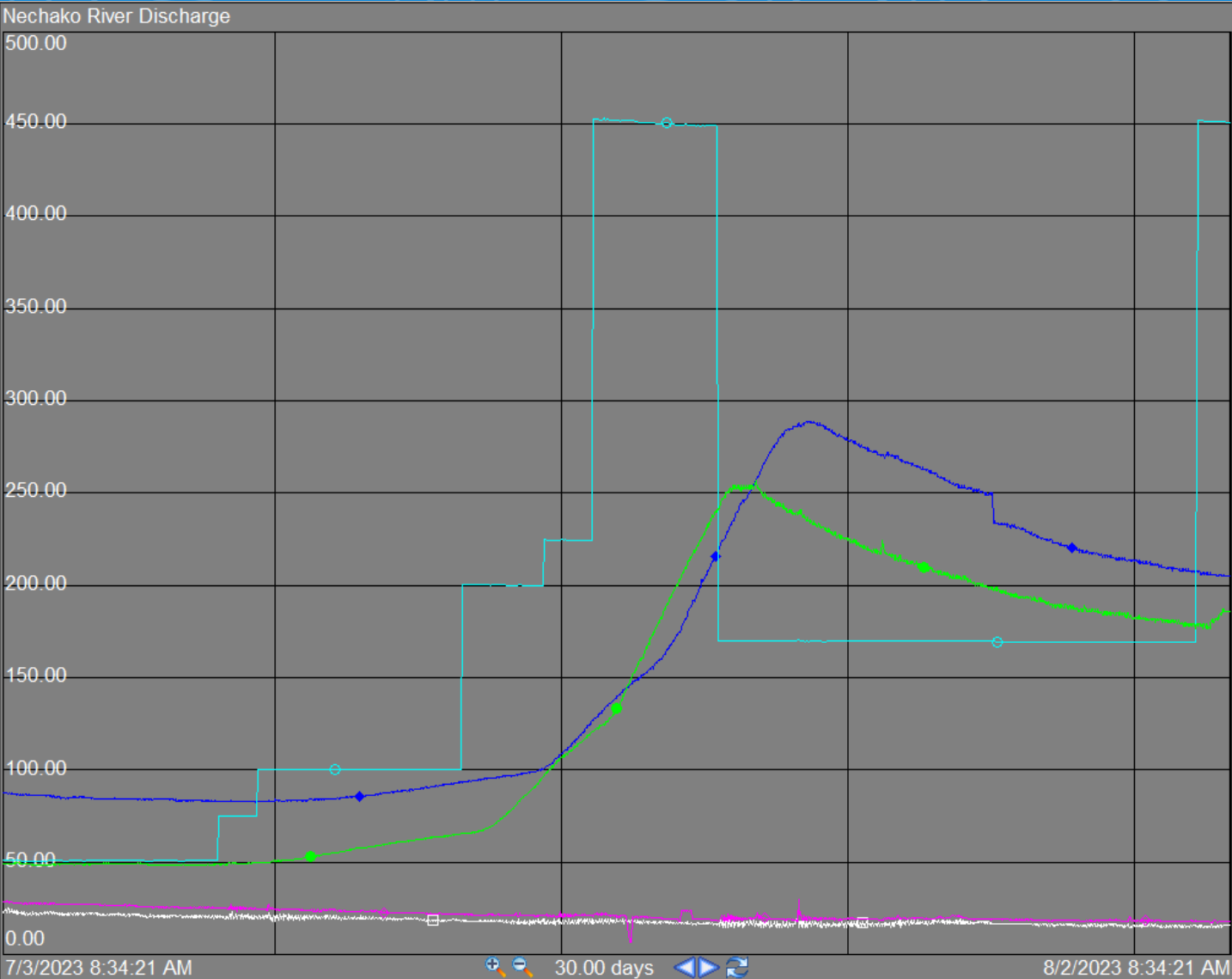
Last 20 days



Nechako Reservoir Historical Elevation since 1957

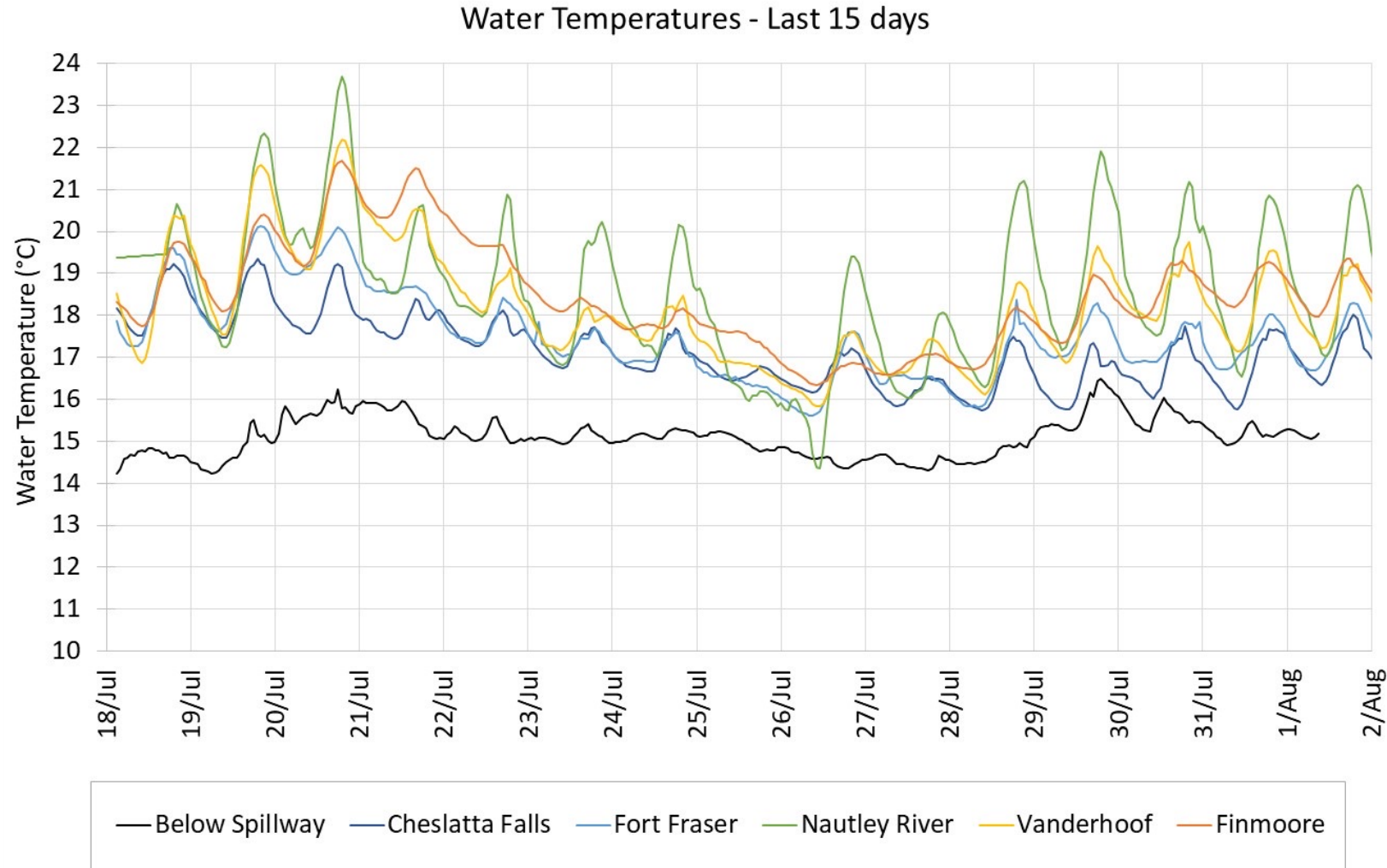


Flows - Last 30 days



Current values (m³/s)	
Vanderhoof	205
Skins Lake	450
Cheslatta Falls	186
Nautley	18
Stellako	16

Observed Water Temperatures – Last 15 days

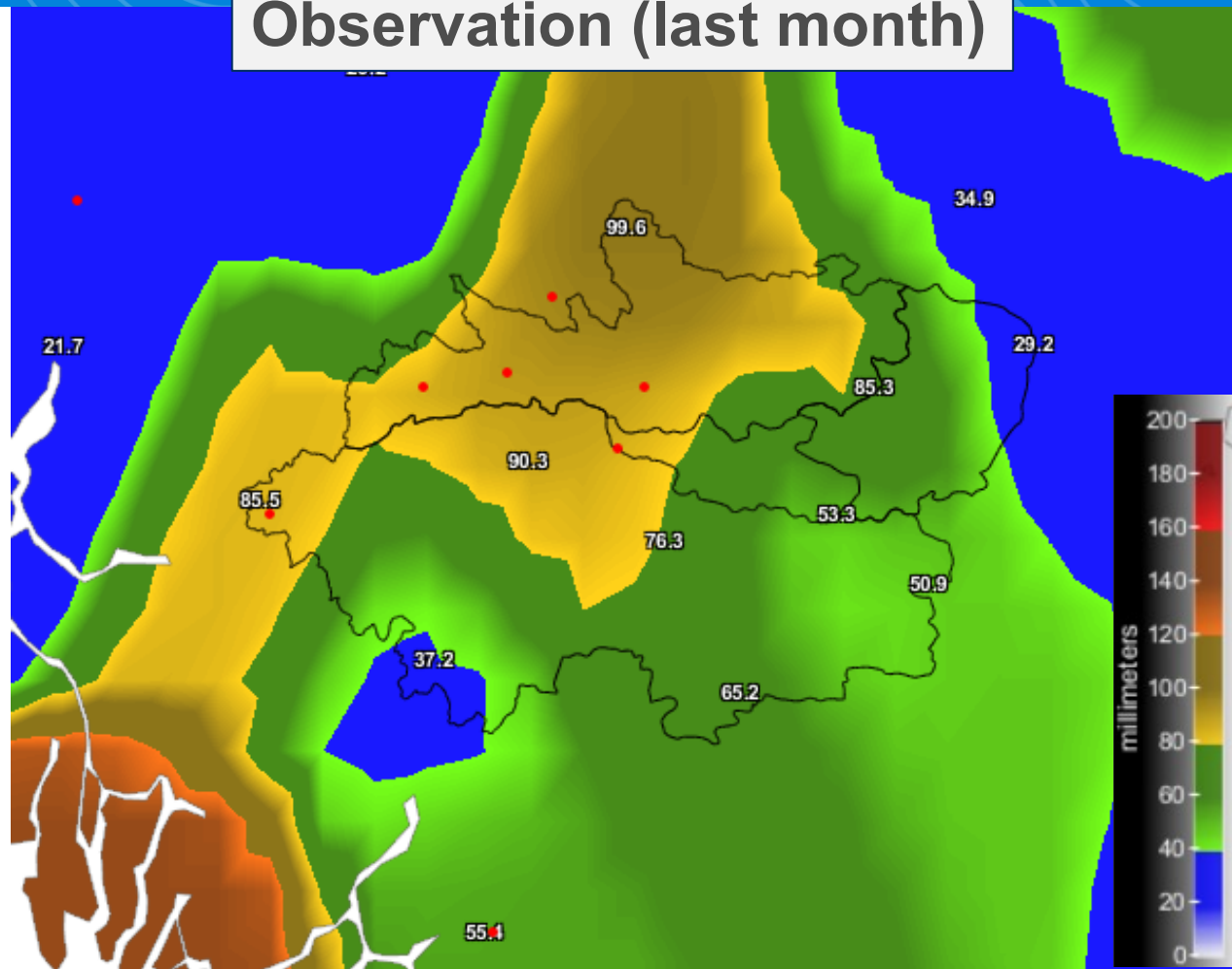


Average – Last 24h (°C)

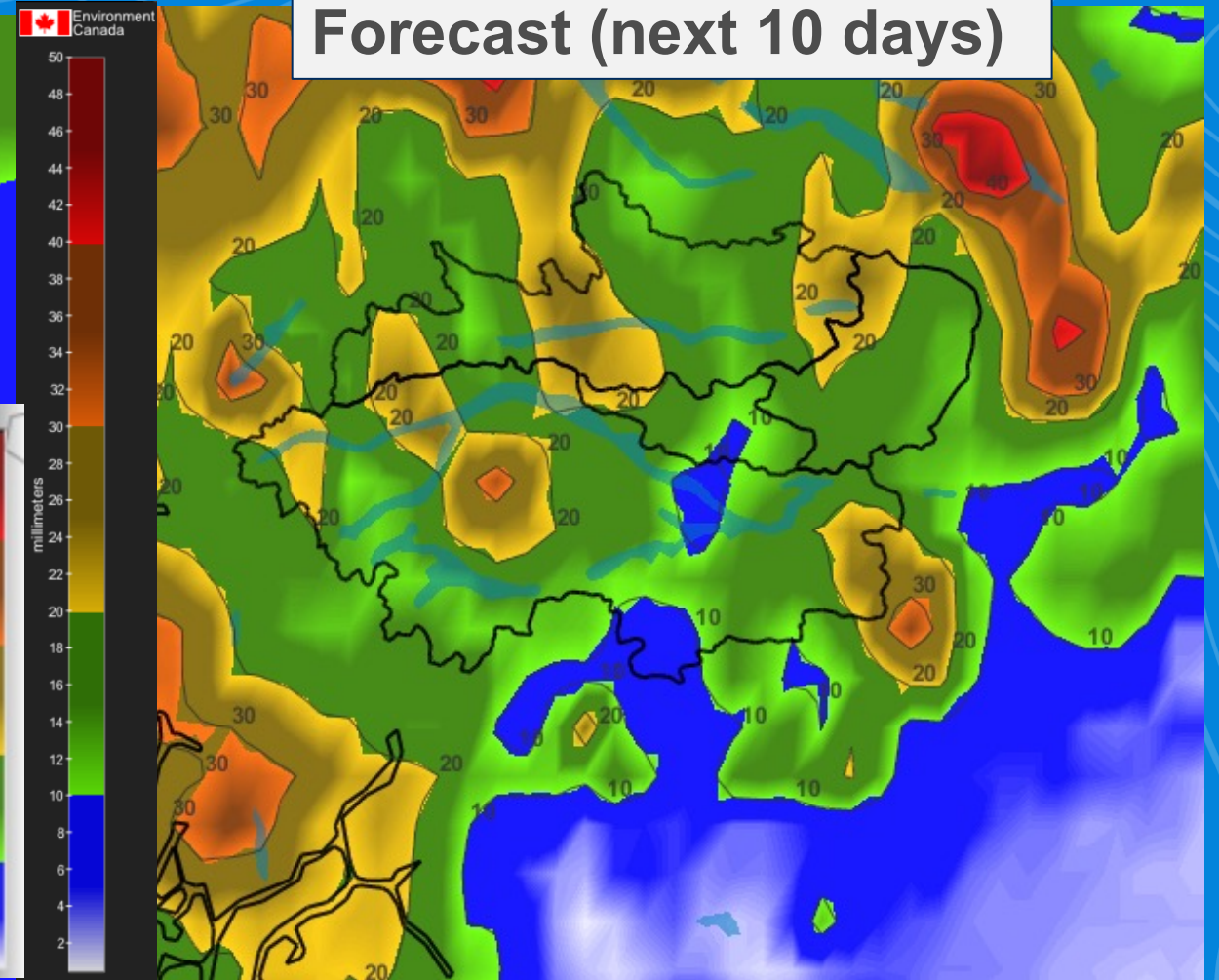
Below spillway	15.2
Cheslatta Falls	17.0
Fort Fraser	17.4
Nautley River	18.9
Vanderhoof	18.2
Finmoore	18.6

Past & Future cumulative precipitation

Observation (last month)



Forecast (next 10 days)































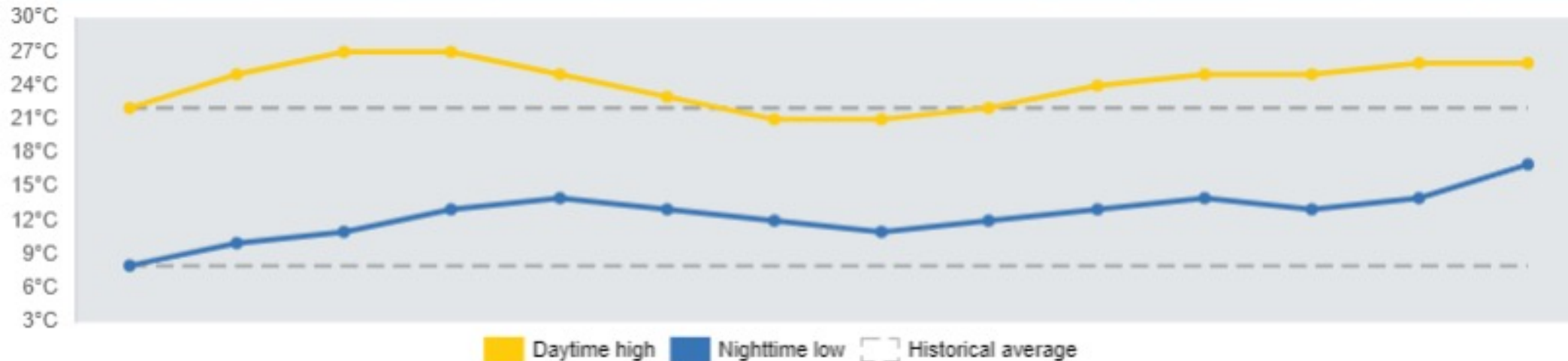
Nechako Reservoir watershed area-average = 80 mm

Nechako Reservoir watershed area-average = 15 mm

Weather Forecast

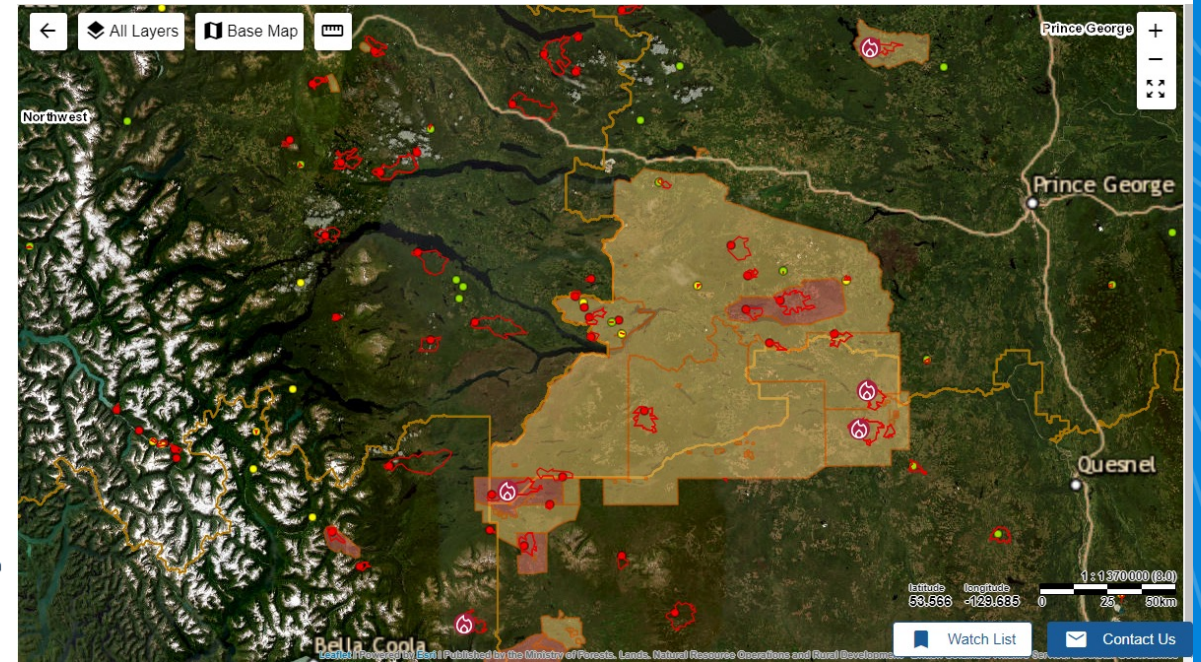
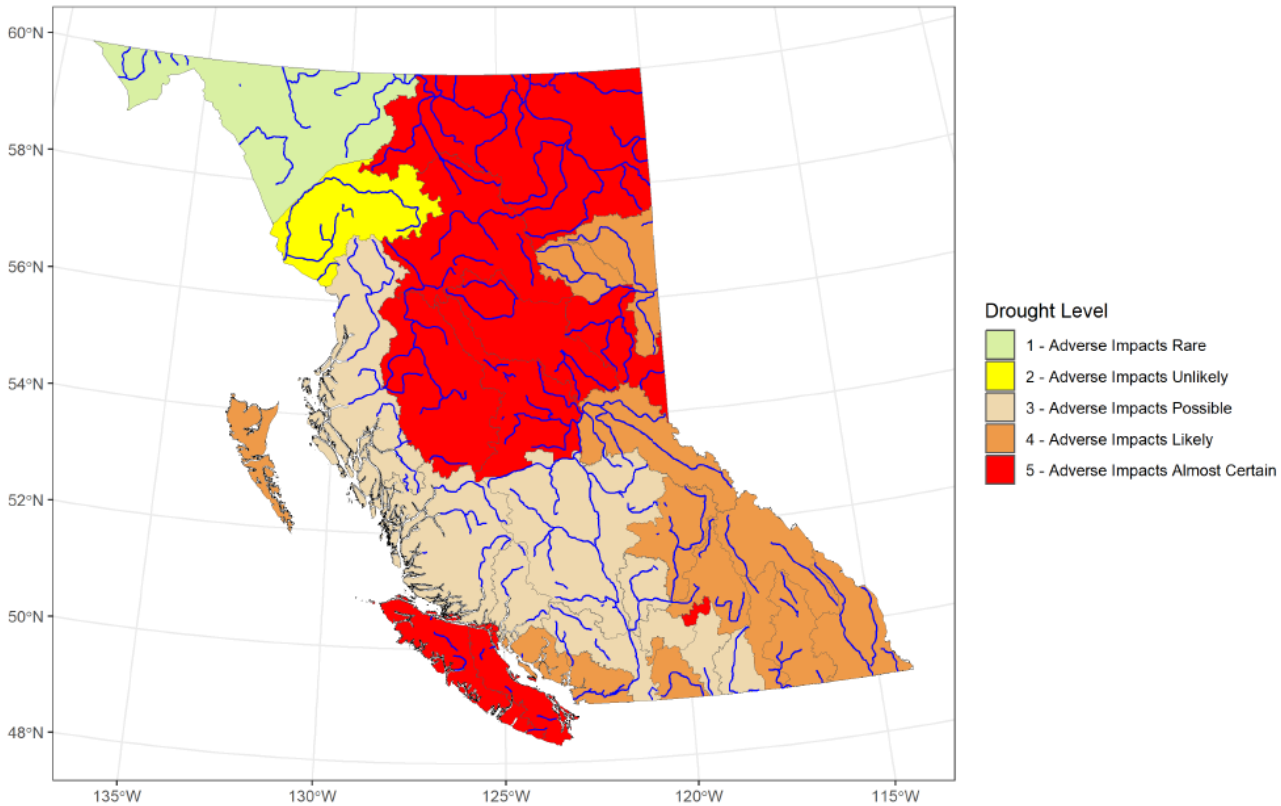
Marilla Weather

	Thu 08/03	Fri 08/04	Sat 08/05	Sun 08/06	Mon 08/07	Tue 08/08	Wed 08/09	Thu 08/10	Fri 08/11	Sat 08/12	Sun 08/13	Mon 08/14	Tue 08/15	Wed 08/16
Day														
	22°	25°	27°	27°	25°	23°	21°	21°	22°	24°	25°	25°	26°	26°
POP	20 %	10 %	10 %	20 %	40 %	30 %	60 %	60 %	30 %	10 %	10 %	10 %	10 %	40 %
Night														
	8°	10°	11°	13°	14°	13°	12°	11°	12°	13°	14°	13°	14°	17°
POP	20 %	10 %	10 %	20 %	30 %	60 %	60 %	60 %	20 %	10 %	10 %	10 %	10 %	40 %



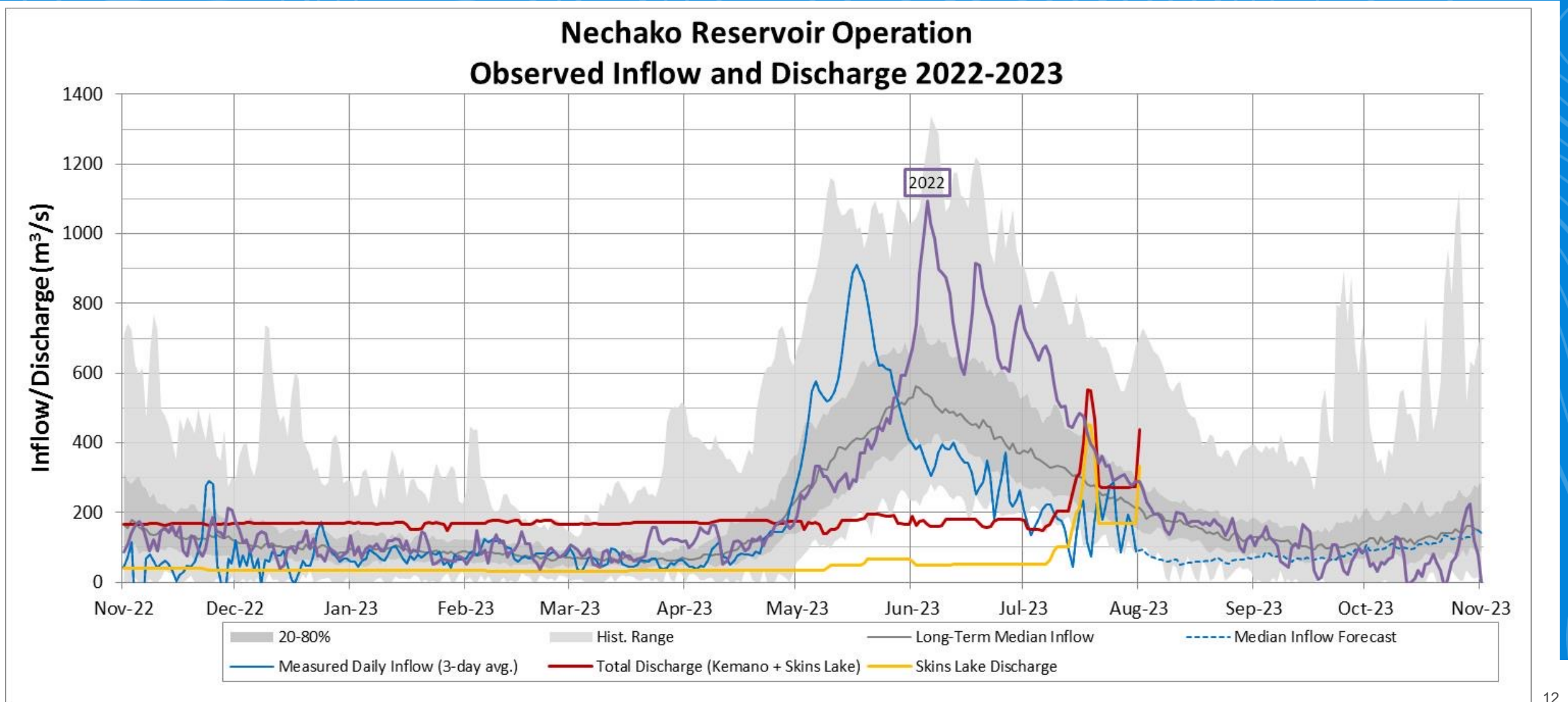
Provincial Advisories - Drought

Last updated : Aug. 1st
Drought Level 5 : Adverse Impacts Almost Certain

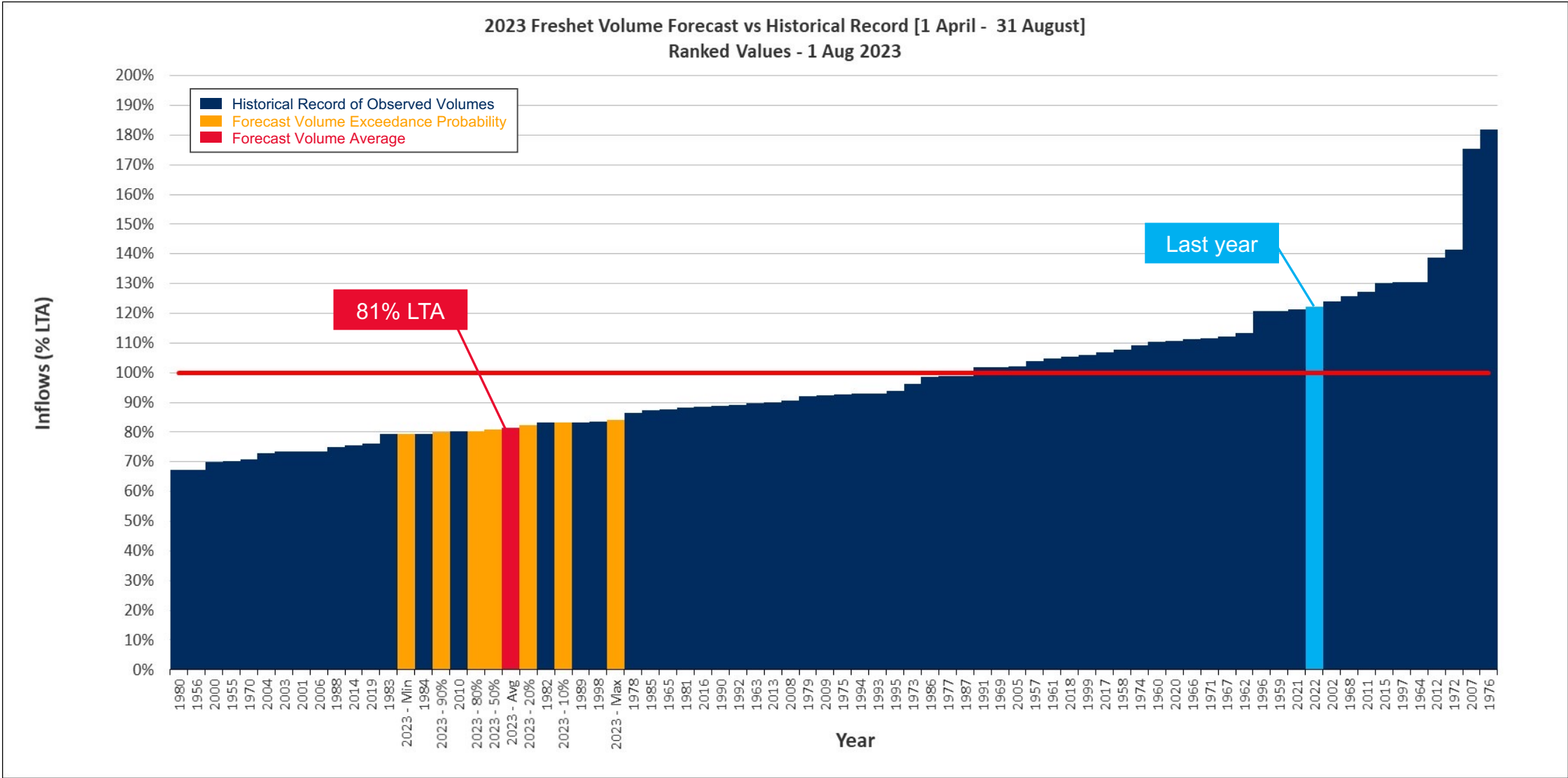


Source: British Columbia Drought Information Portal
Water Management Branch – Ministry of Forests

Observed Inflows & Discharge vs Historical



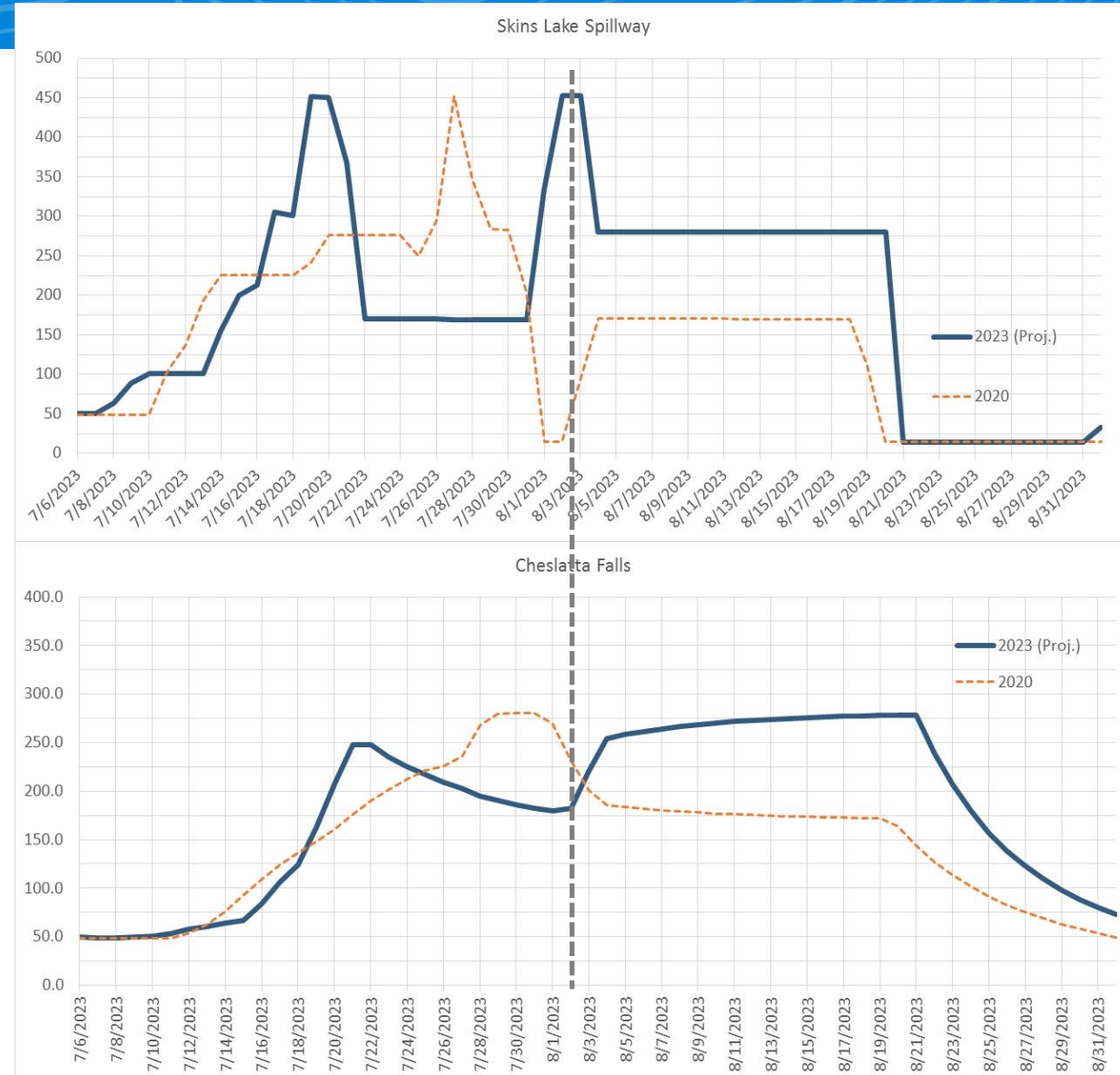
Spring Freshet Inflow Volume



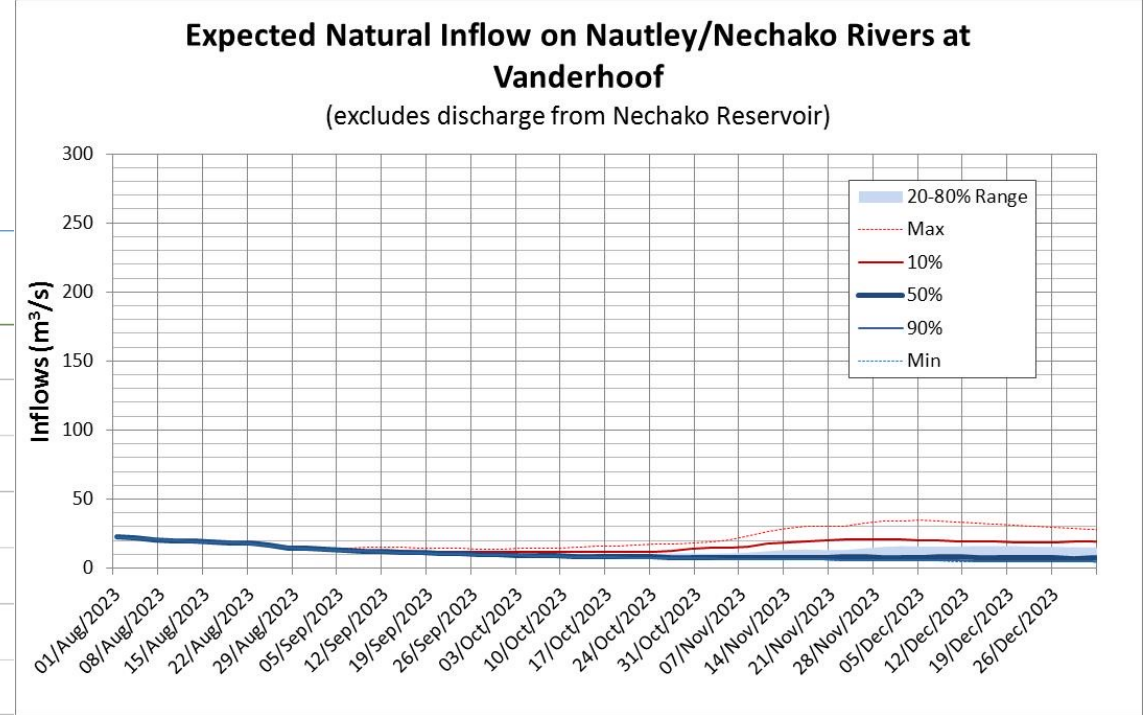
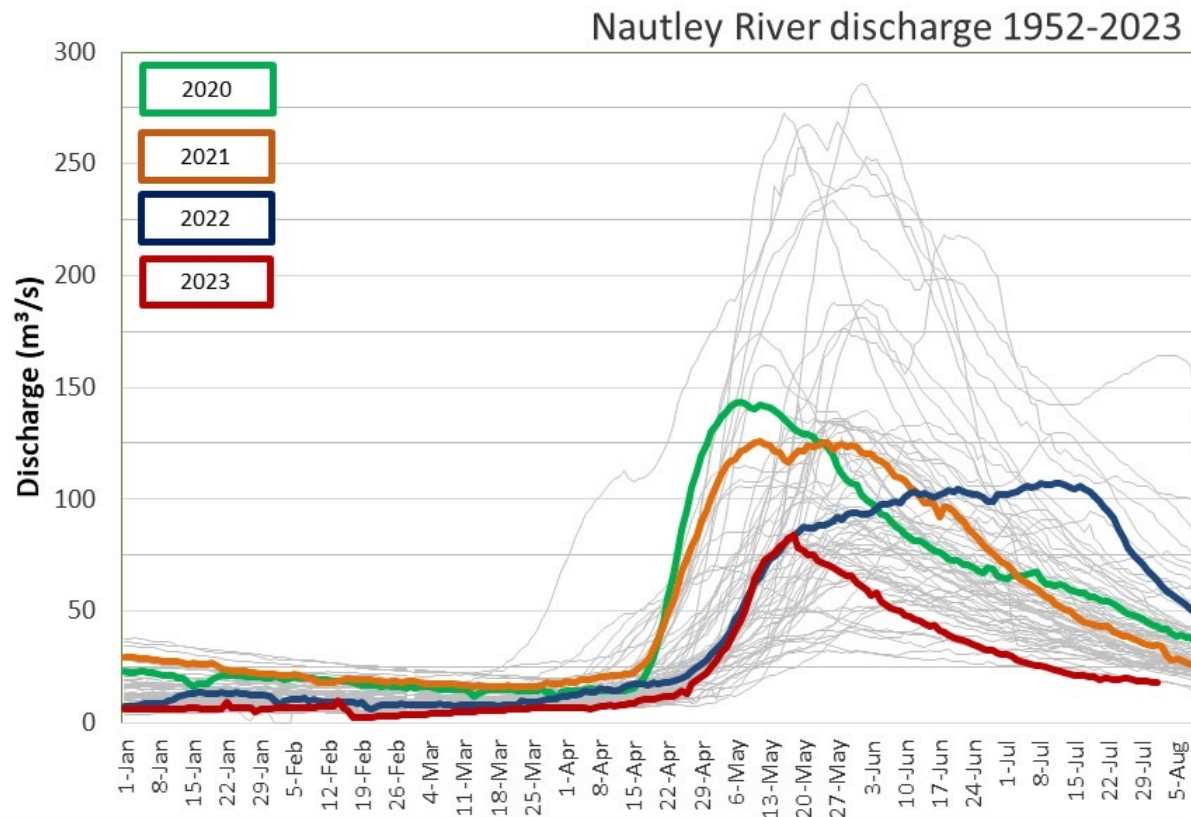
Skins Lake Spillway Release Forecast

Current release = **450 m³/s**

STMP will likely call for shift
down to 283 tomorrow

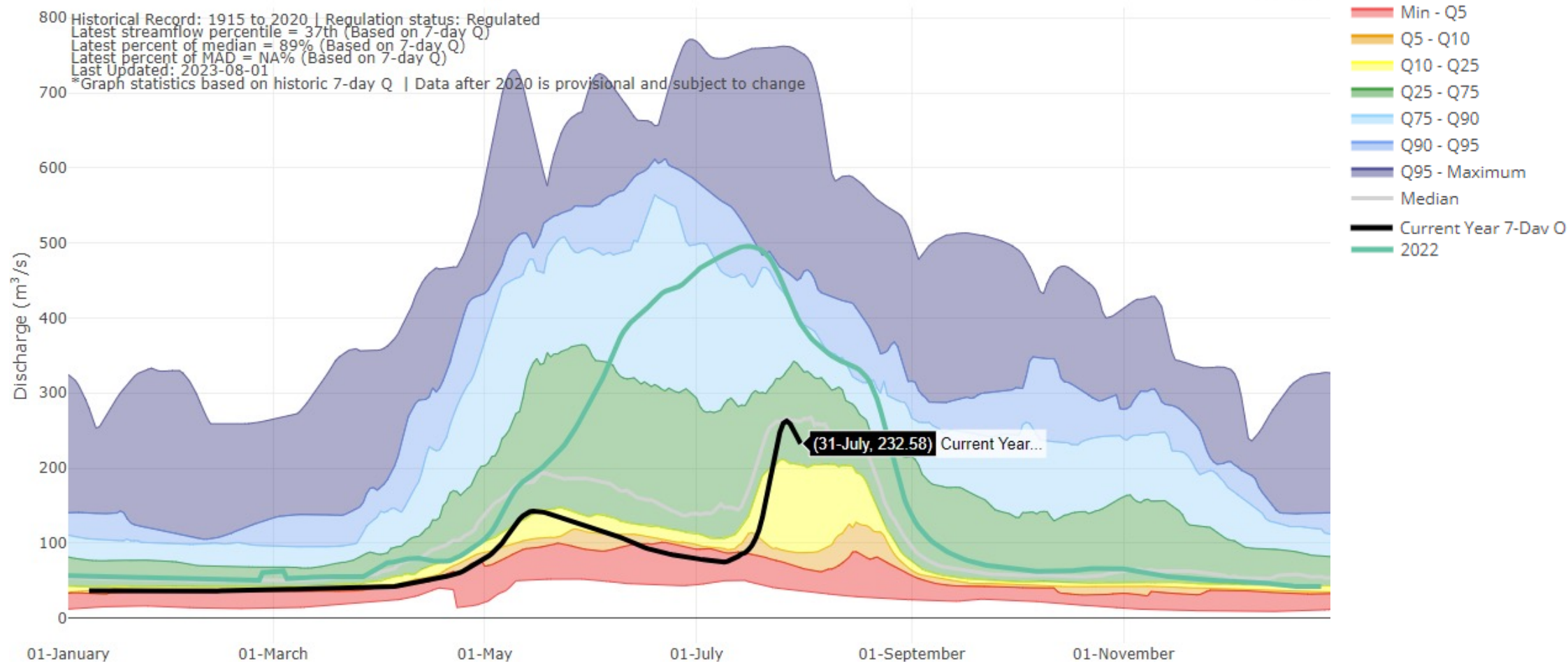


Nautley River Flows, Forecast

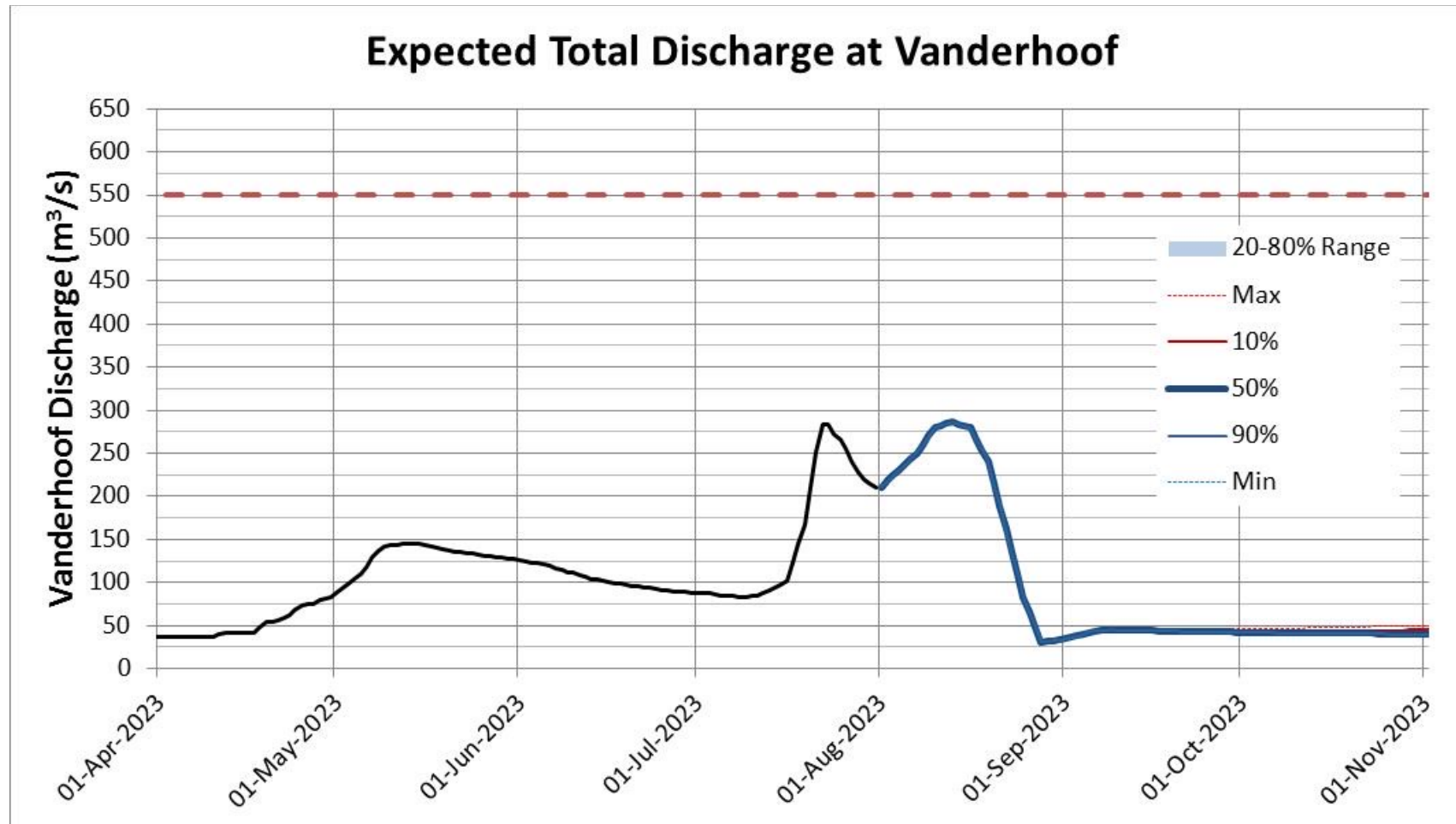


Vanderhoof

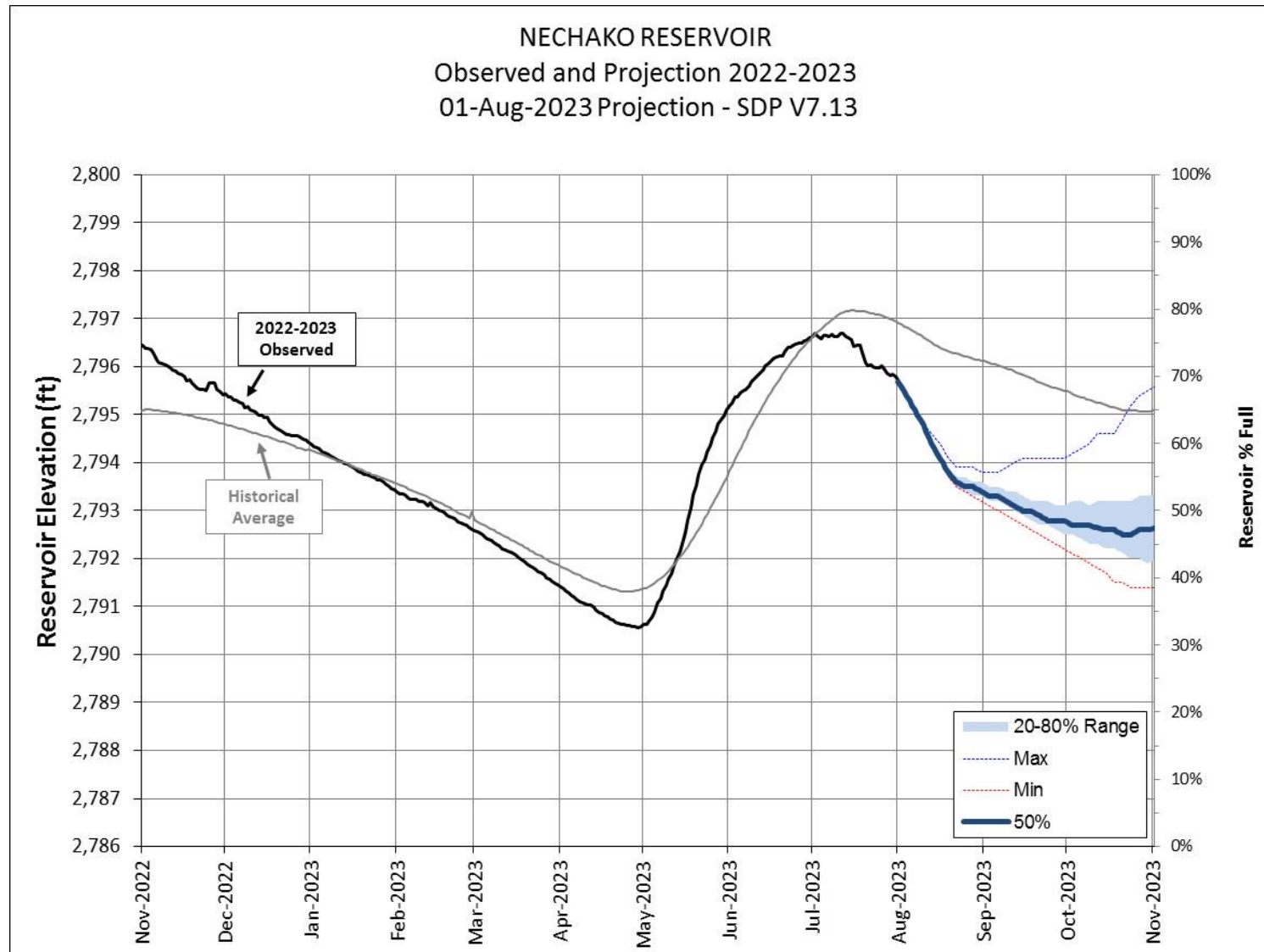
Seven Day Mean Streamflow for 08JC001 NECHAKO RIVER AT VANDERHOOF



Forecast – Vanderhoof



Reservoir Level Projection



Updates - Next Steps – Actions



1. Work with BC Wildfire on access
2. Model update and communications – STMP, Generation etc
3. Monitoring work in the field
4. 2023 7 Yearly Dam Safety Review underway
5. Continue to update on Smelter Re-Start currently at 93% full production
6. Confirm next meeting date & time
– **Propose August 16th**

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

Feedback & Reflections

