



RioTinto

Nechako Reservoir / River / Freshet Information Sharing – Community Leaders

19 July 2023

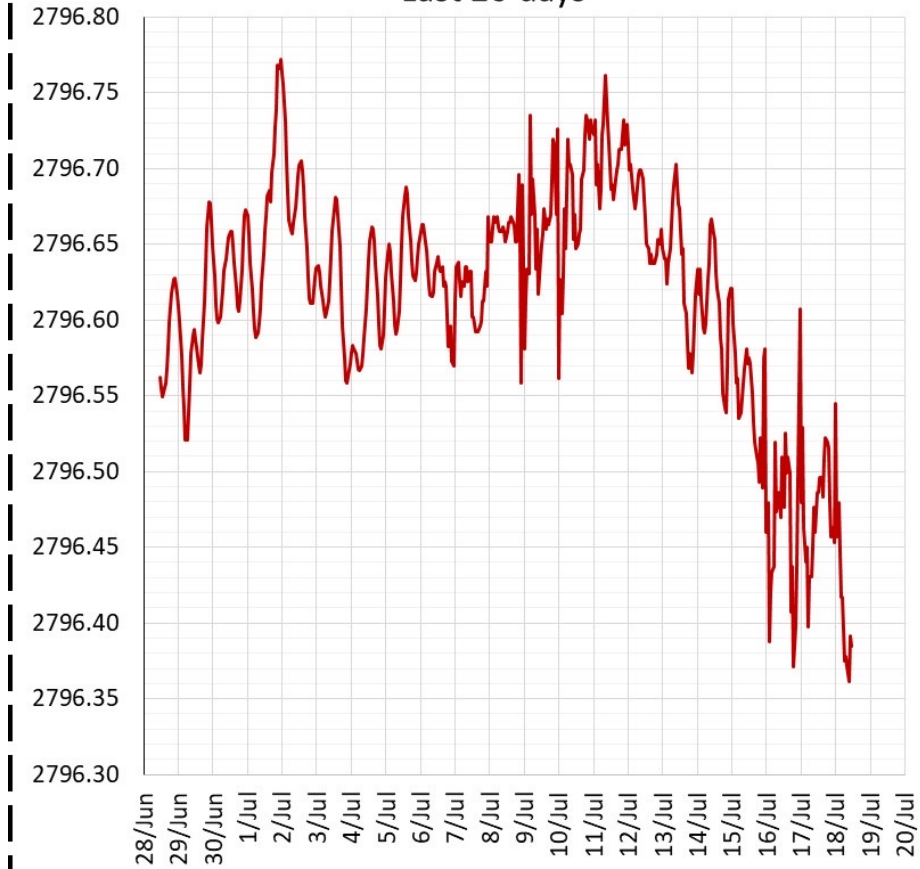
Prepared by Andrew Czornohalan & Alec Mercier

Reservoir Elevation - Last 20 days

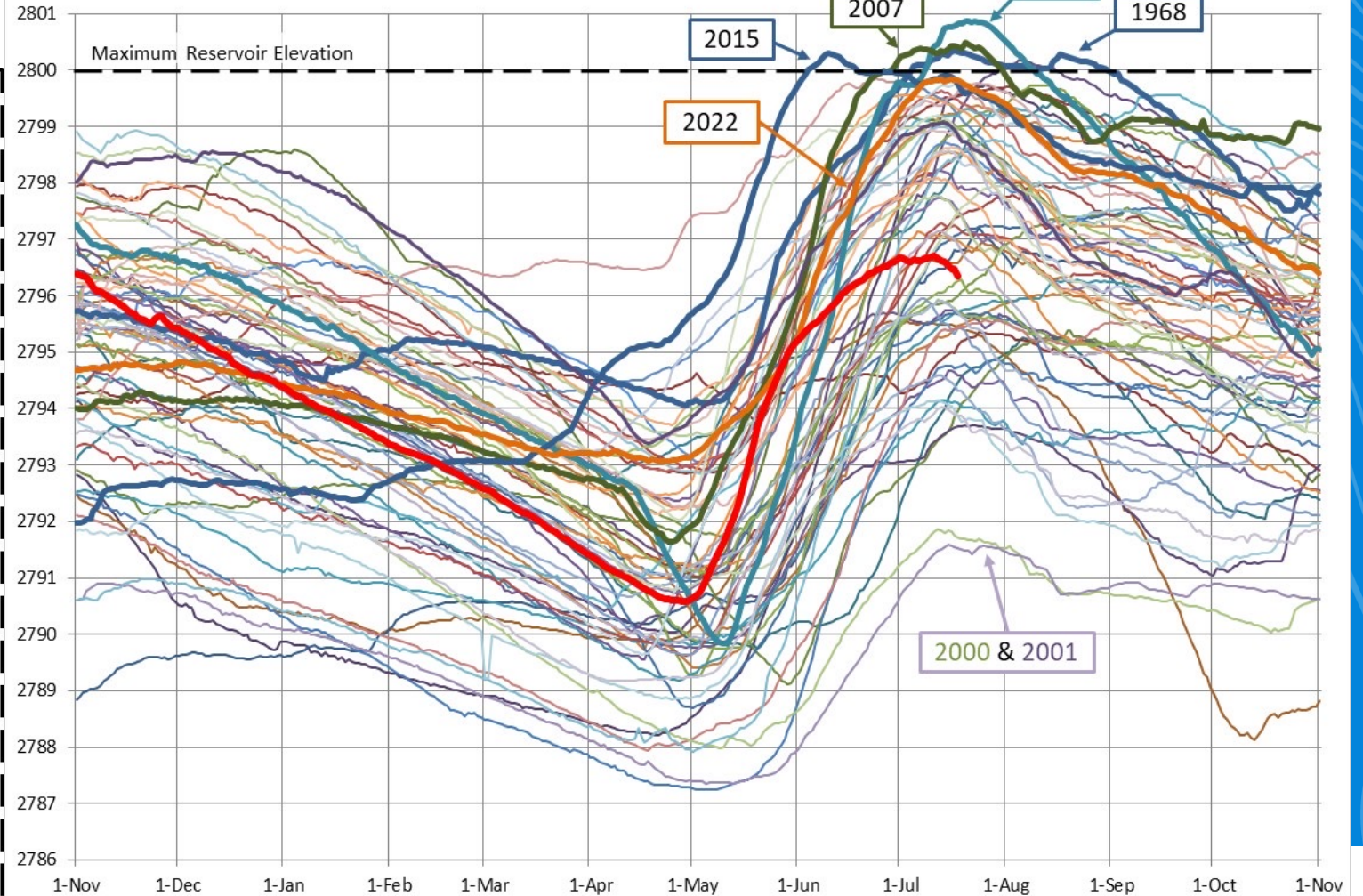
Current reservoir level

2796.38 ft

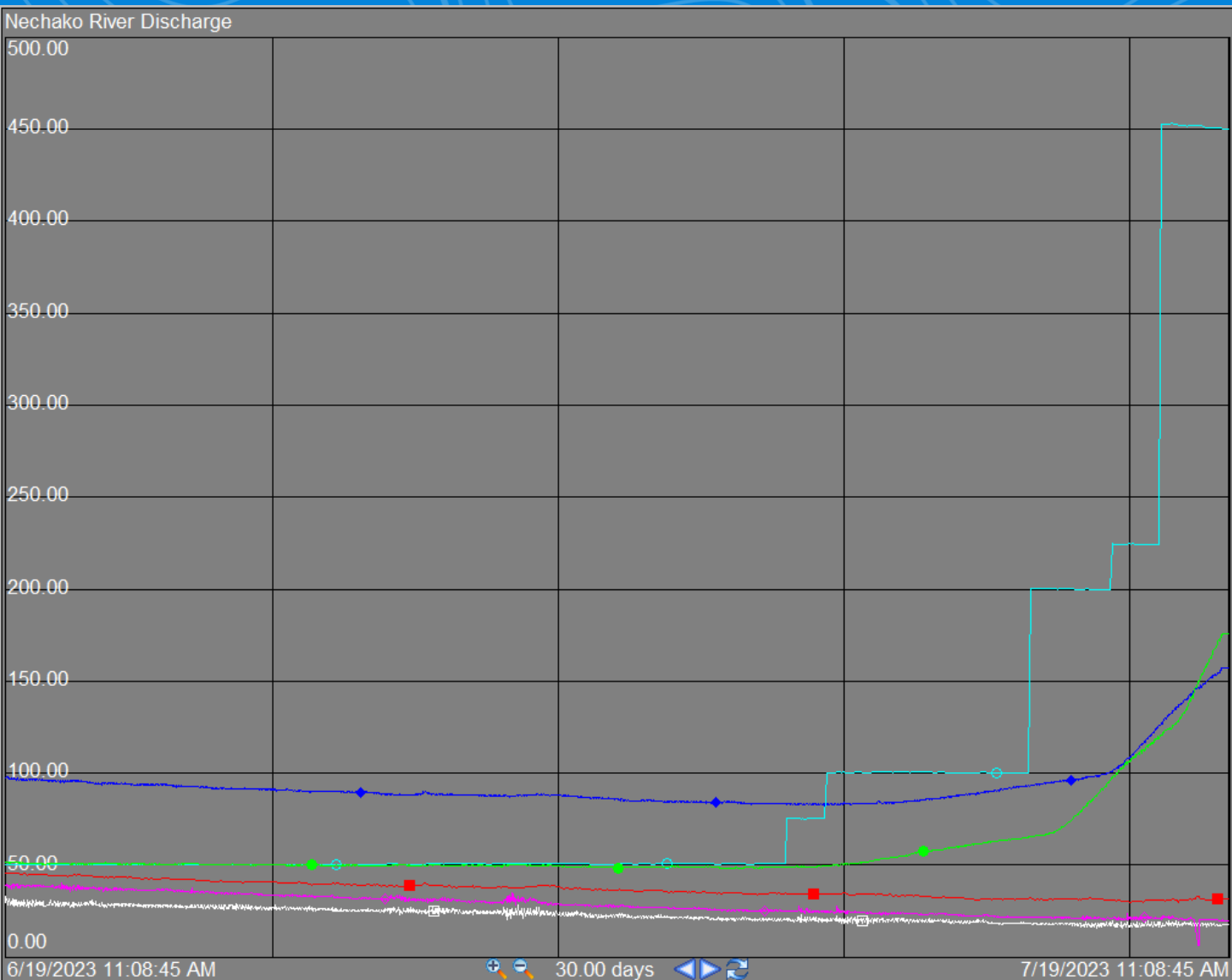
Last 20 days



Nechako Reservoir Historical Elevation since 1957



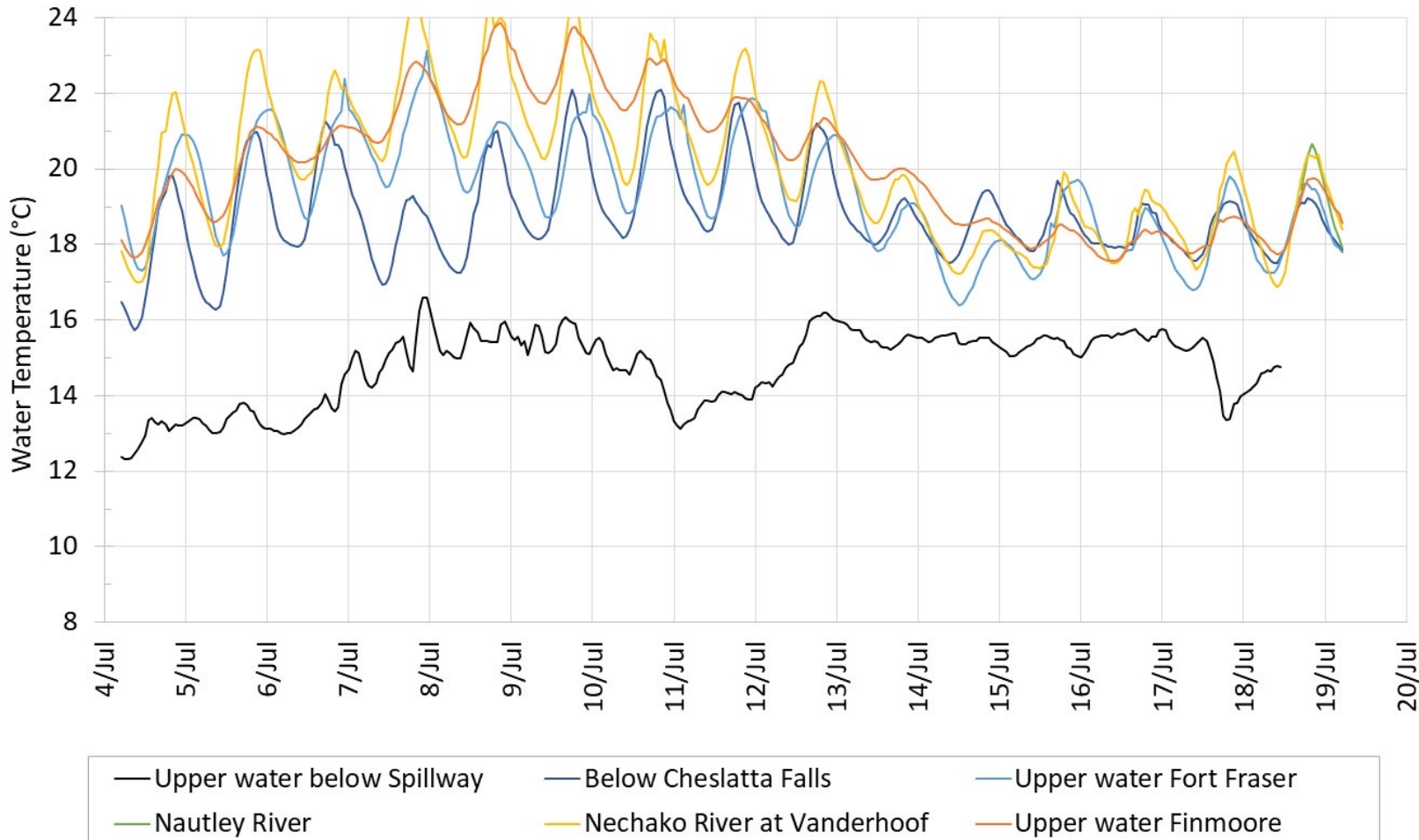
Flows - Last 30 days



Current values (m³/s)	
Vanderhoof	157
Skins Lake	450
Cheslatta Falls	176
Nautley	20
Stellako	18

Observed Water Temperatures – Last 15 days

Water Temperatures - Last 15 days

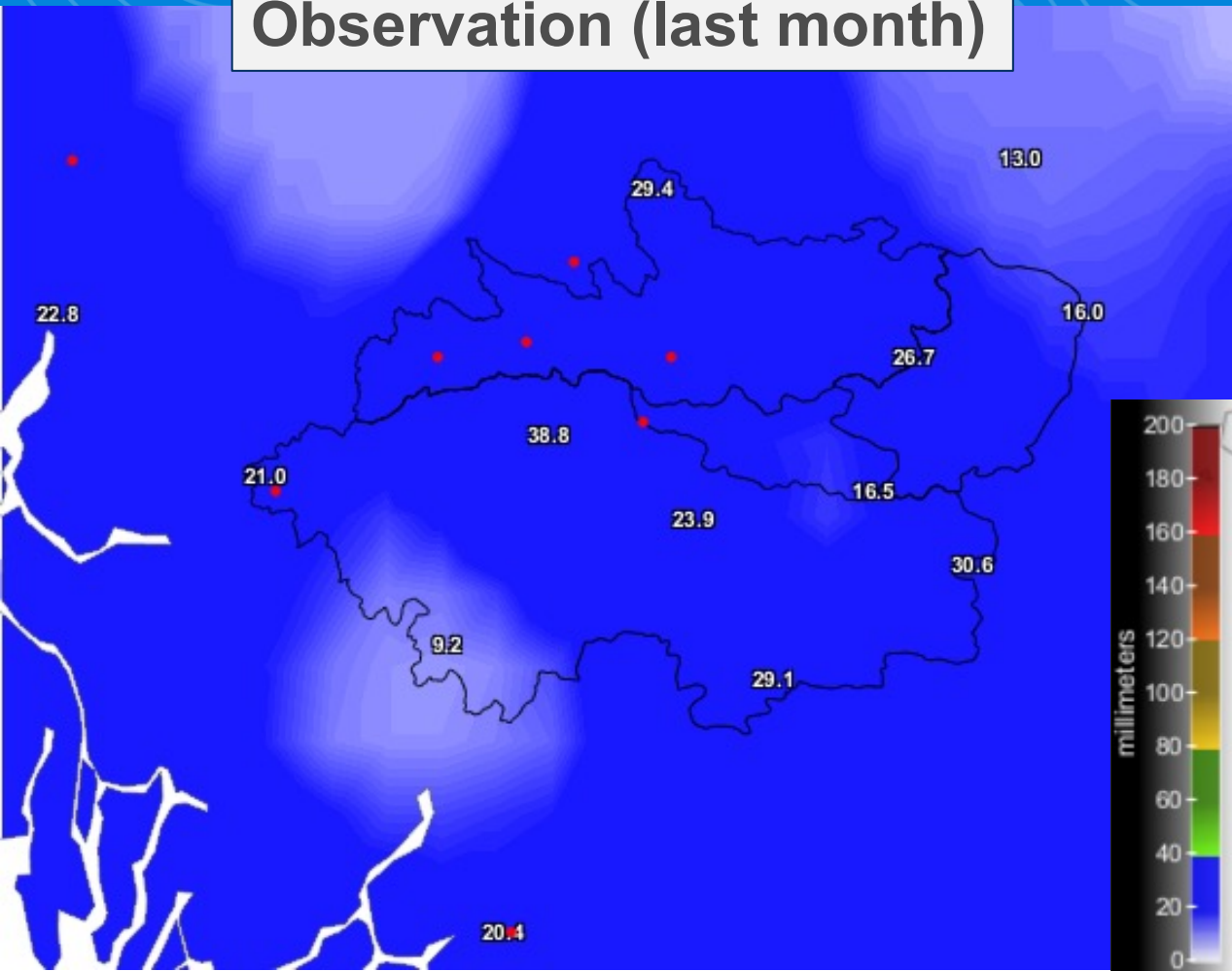


Average – Last 24h (°C)

Below spillway	N/A
Below Cheslatta Falls	18.3
Fort Fraser	18.4
Nautley River	N/A
Vanderhoof	18.7
Finmoore	18.8

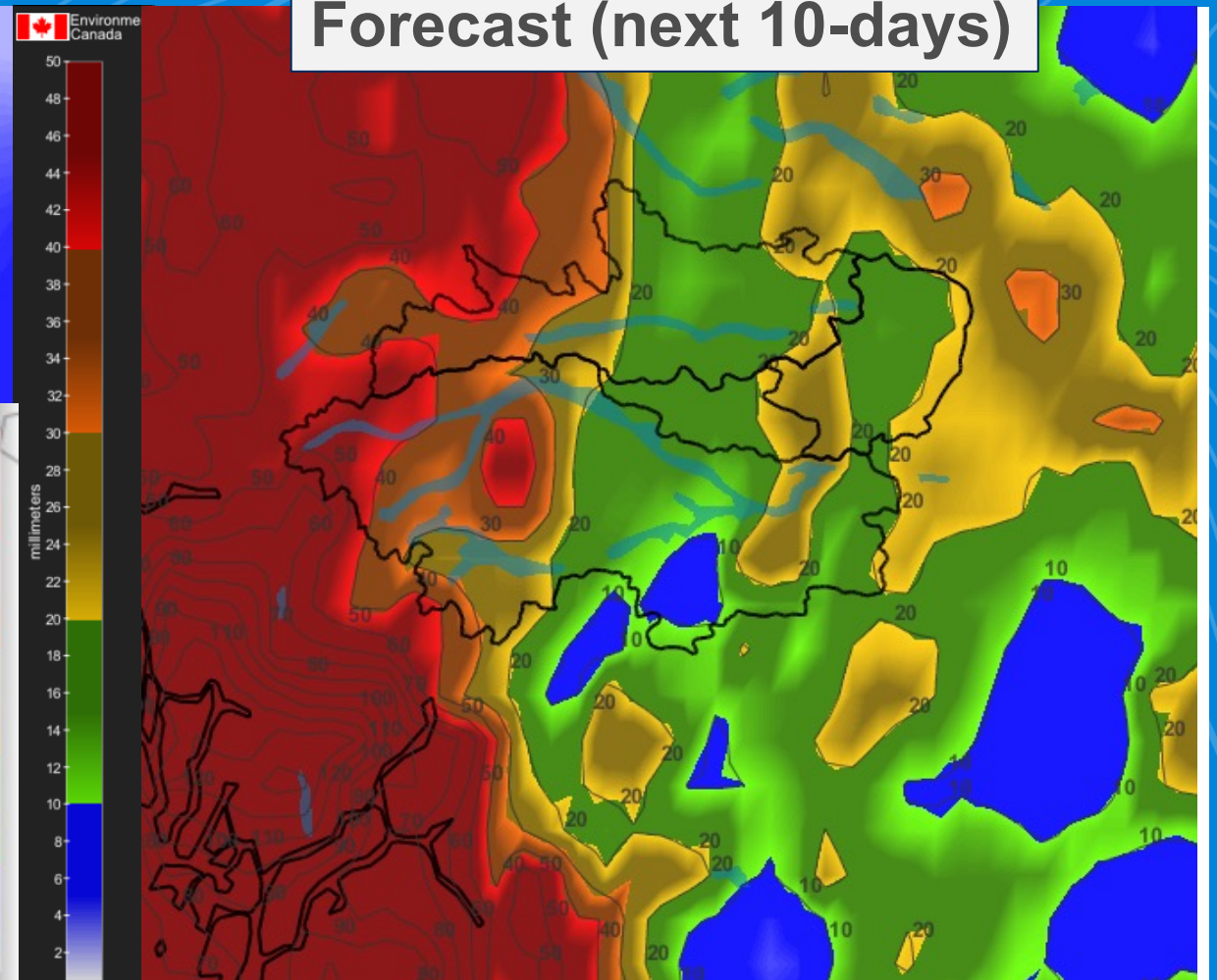
Past & Future cumulative precipitation

Observation (last month)



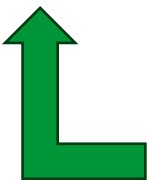
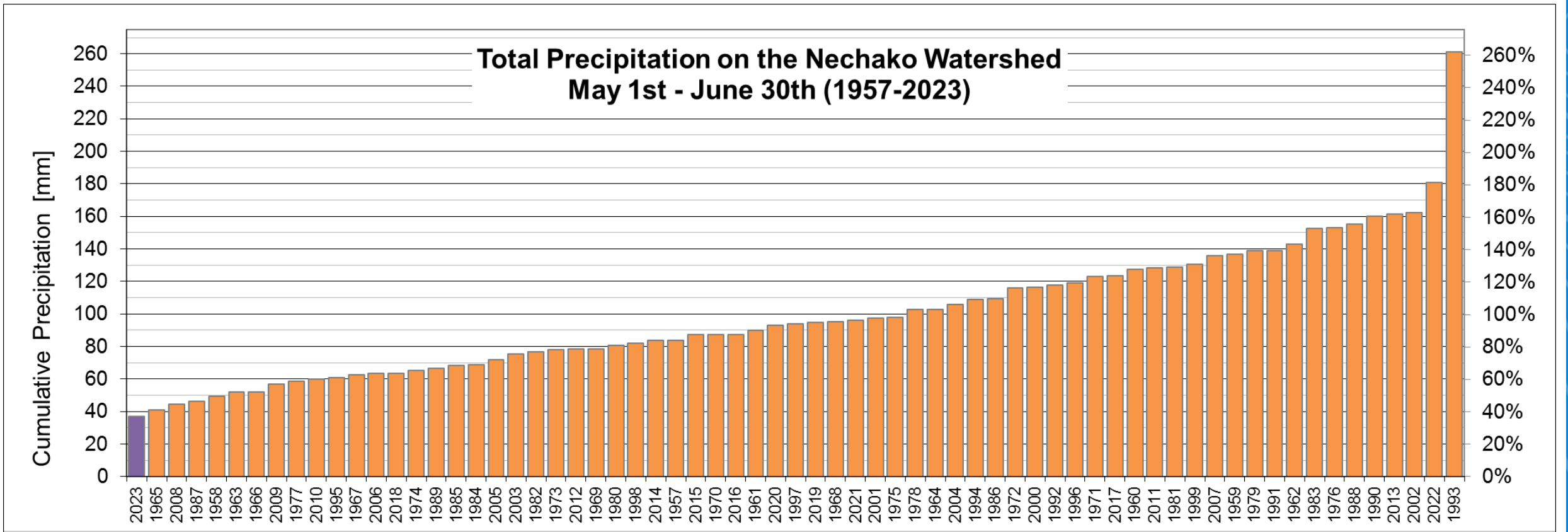
Nechako Reservoir watershed area-average = 26 mm

Forecast (next 10-days)



Nechako Reservoir watershed area-average = 25 mm





























Past cumulative precipitation

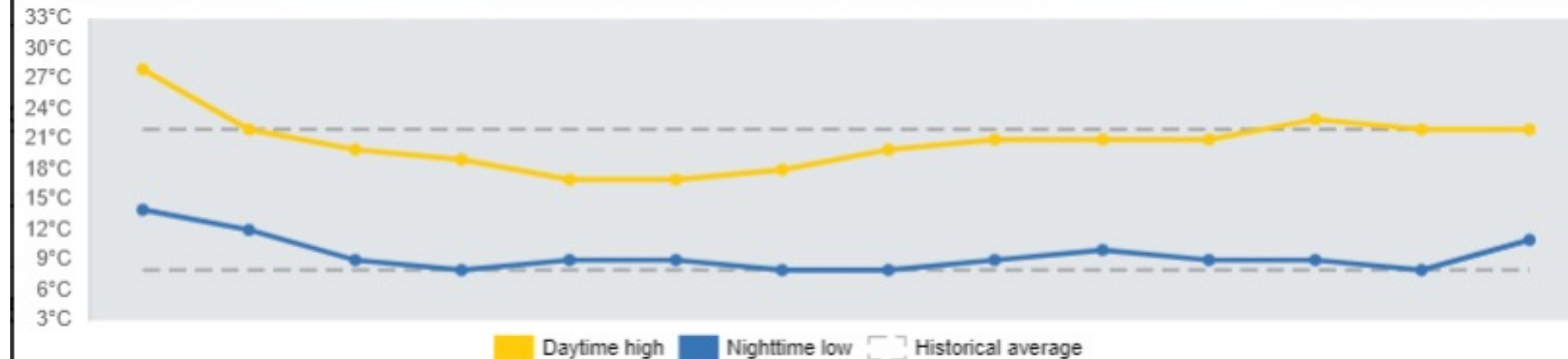


Period	Total Precip.	Rank
June	26 mm (44% LTA)	5th driest
May-June	37 mm (37% LTA)	1st
April-May-June	84 mm (59% LTA)	5th driest

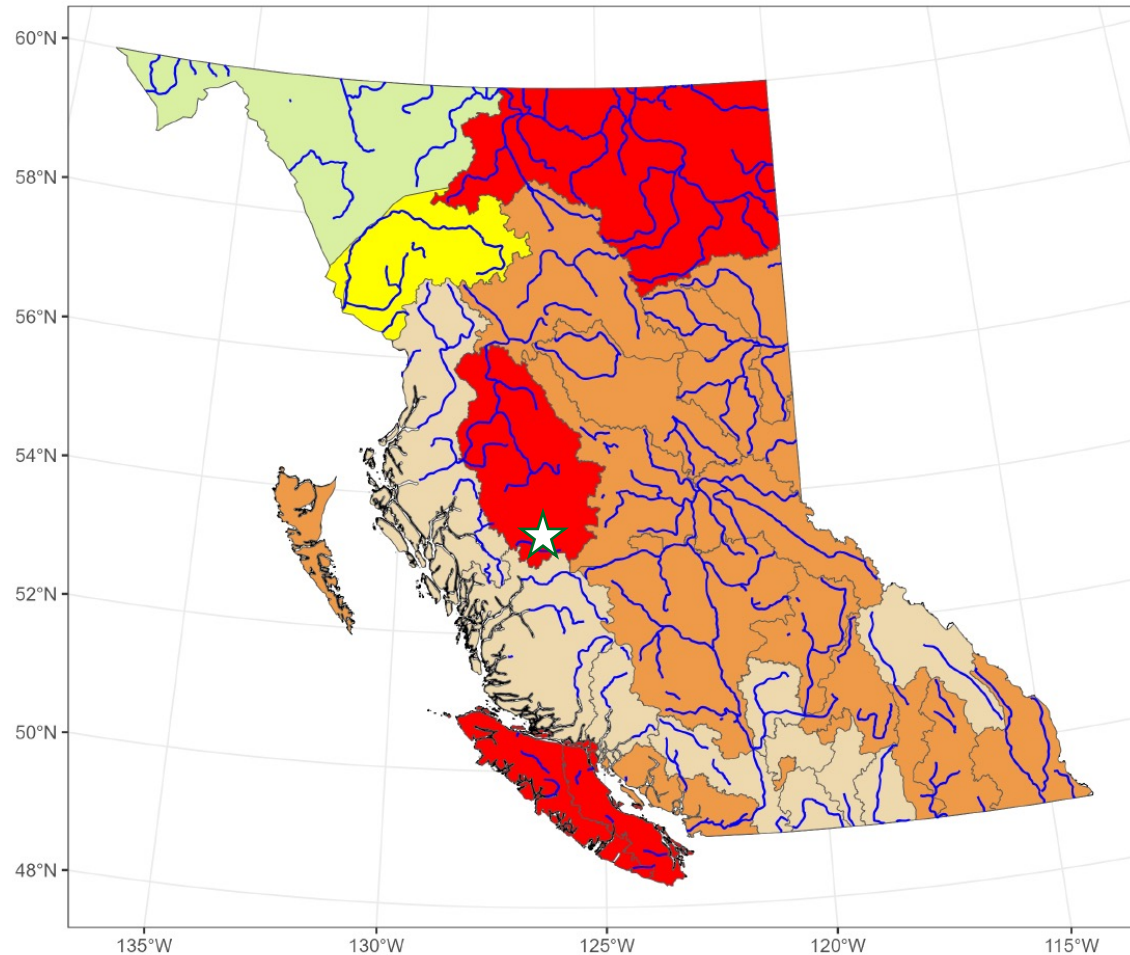
Weather Forecast

Marilla Weather

	Thu 07/20	Fri 07/21	Sat 07/22	Sun 07/23	Mon 07/24	Tue 07/25	Wed 07/26	Thu 07/27	Fri 07/28	Sat 07/29	Sun 07/30	Mon 07/31	Tue 08/01	Wed 08/02
Day														
	28°	22°	20°	19°	17°	17°	18°	20°	21°	21°	21°	23°	22°	22°
POP	40 %	60 %	70 %	70 %	40 %	40 %	30 %	40 %	30 %	30 %	30 %	20 %	20 %	10 %
Night														
	14°	12°	9°	8°	9°	9°	8°	8°	9°	10°	9°	9°	8°	11°
POP	70 %	30 %	60 %	40 %	70 %	30 %	40 %	30 %	30 %	30 %	30 %	20 %	10 %	10 %



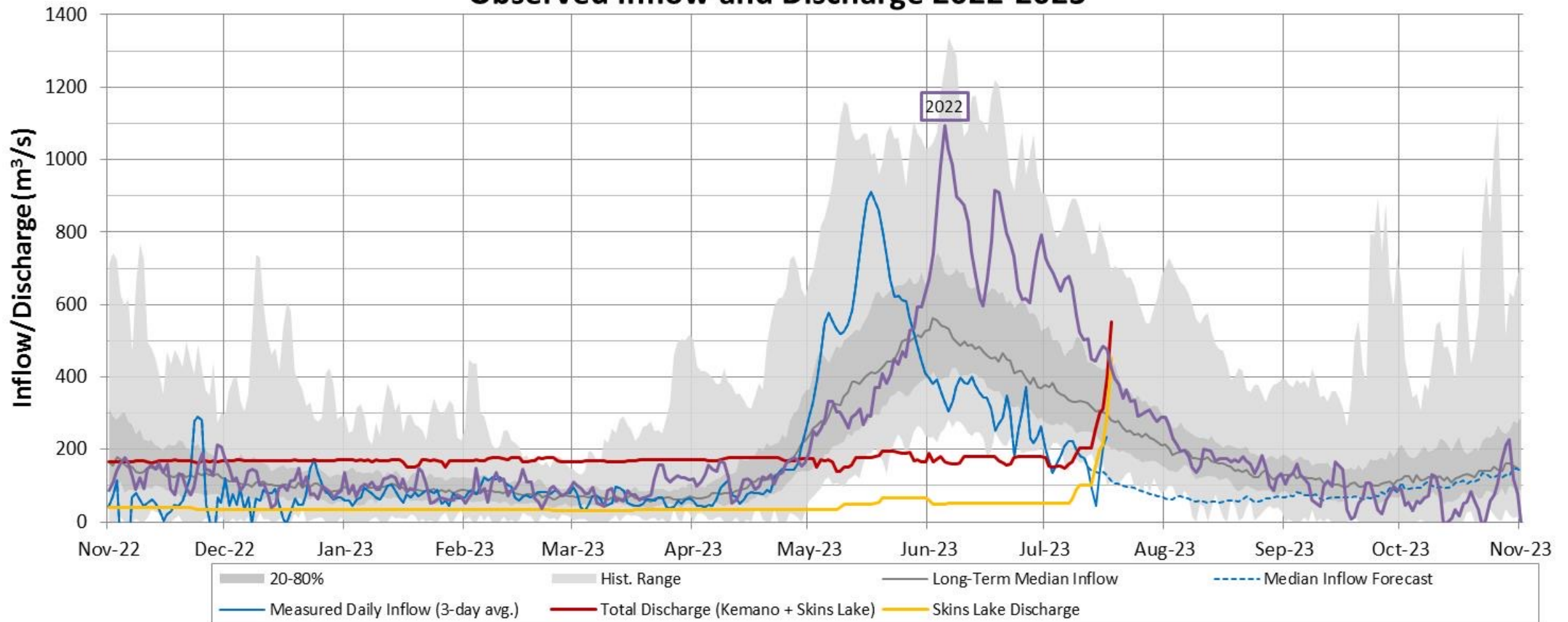
Provincial Advisories - Drought



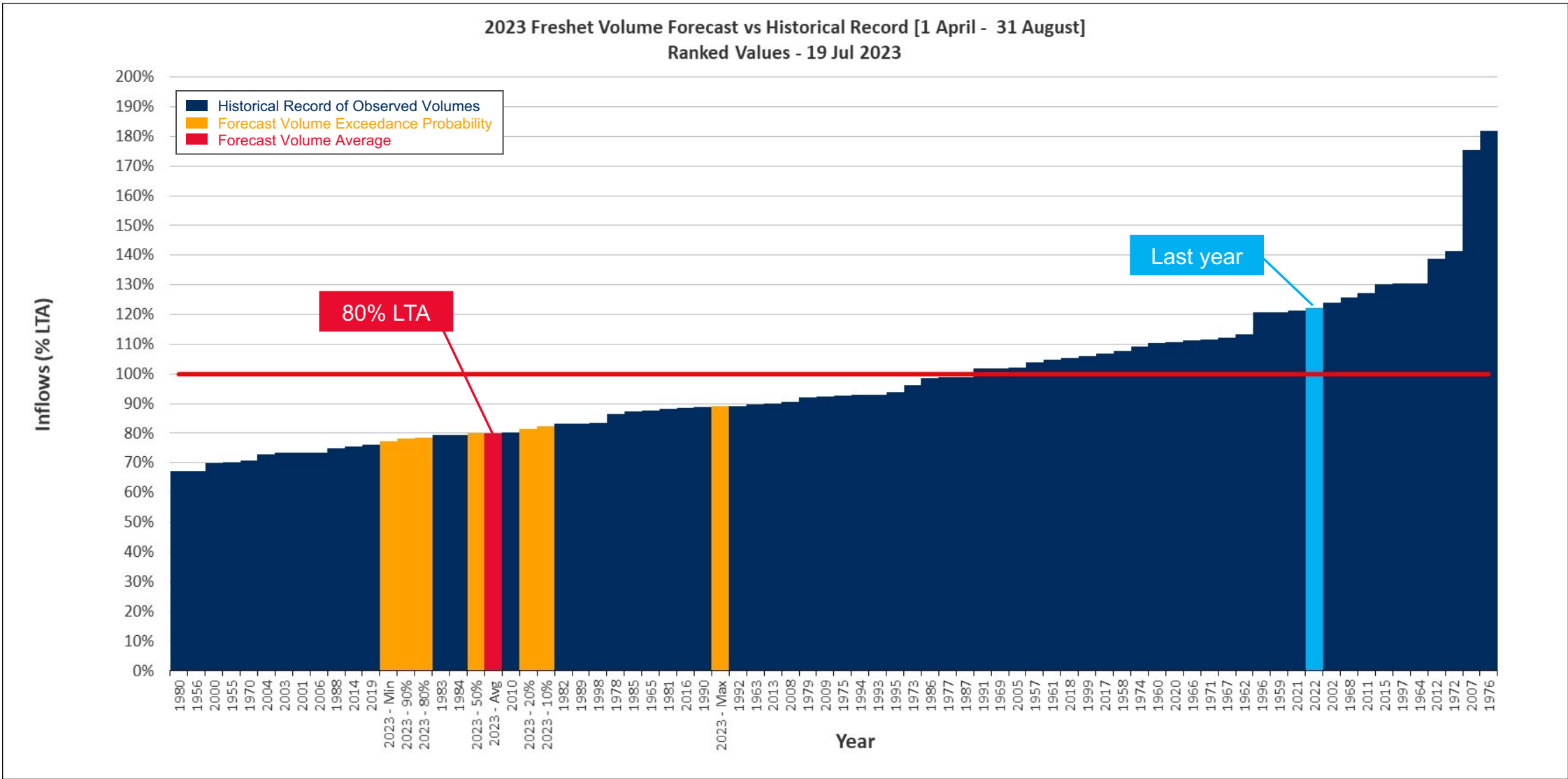
Last updated : June 29th
Drought Level 5 : Adverse Impacts Almost Certain

Observed Inflows & Discharge vs Historical

**Nechako Reservoir Operation
Observed Inflow and Discharge 2022-2023**



Spring Freshet Inflow Volume

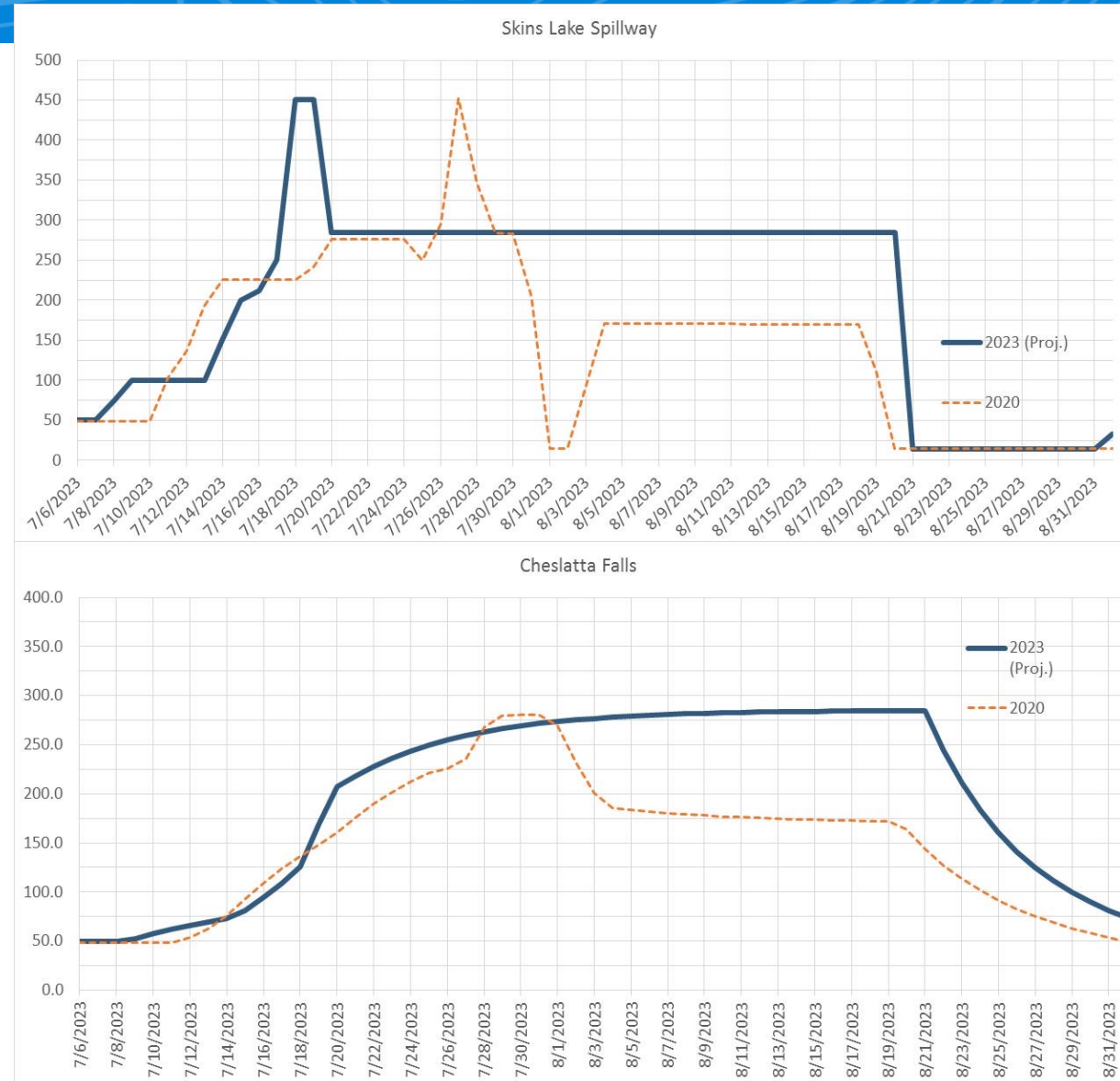


Skins Lake Spillway Release Forecast

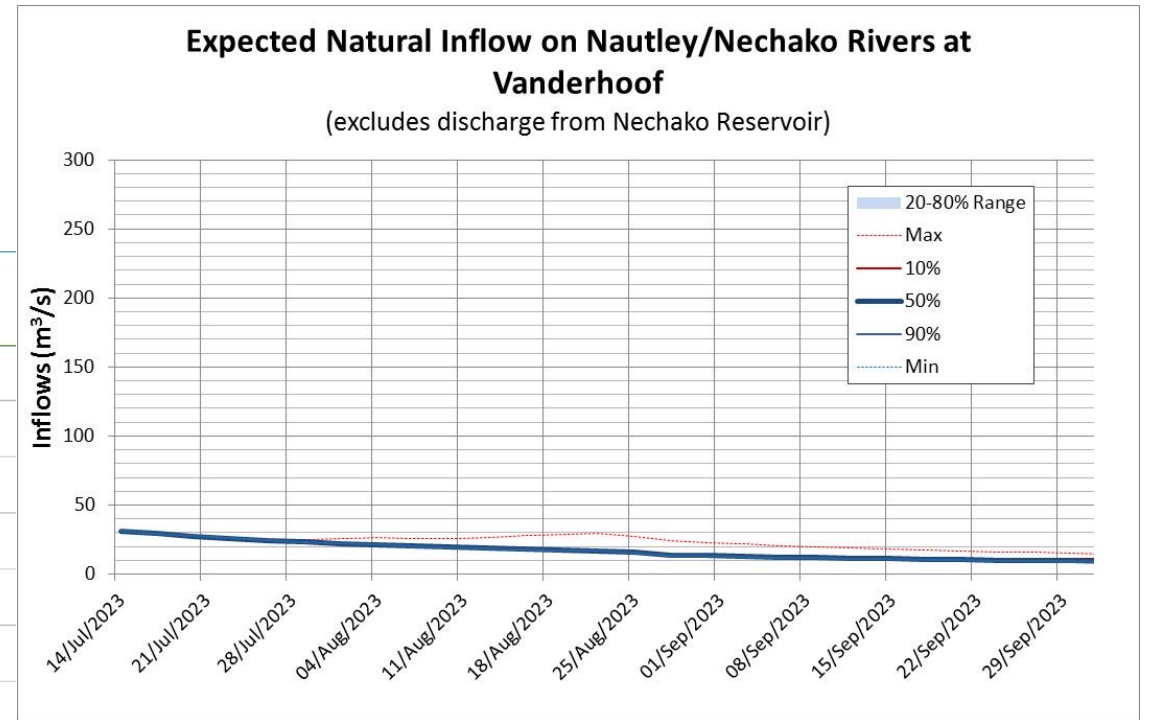
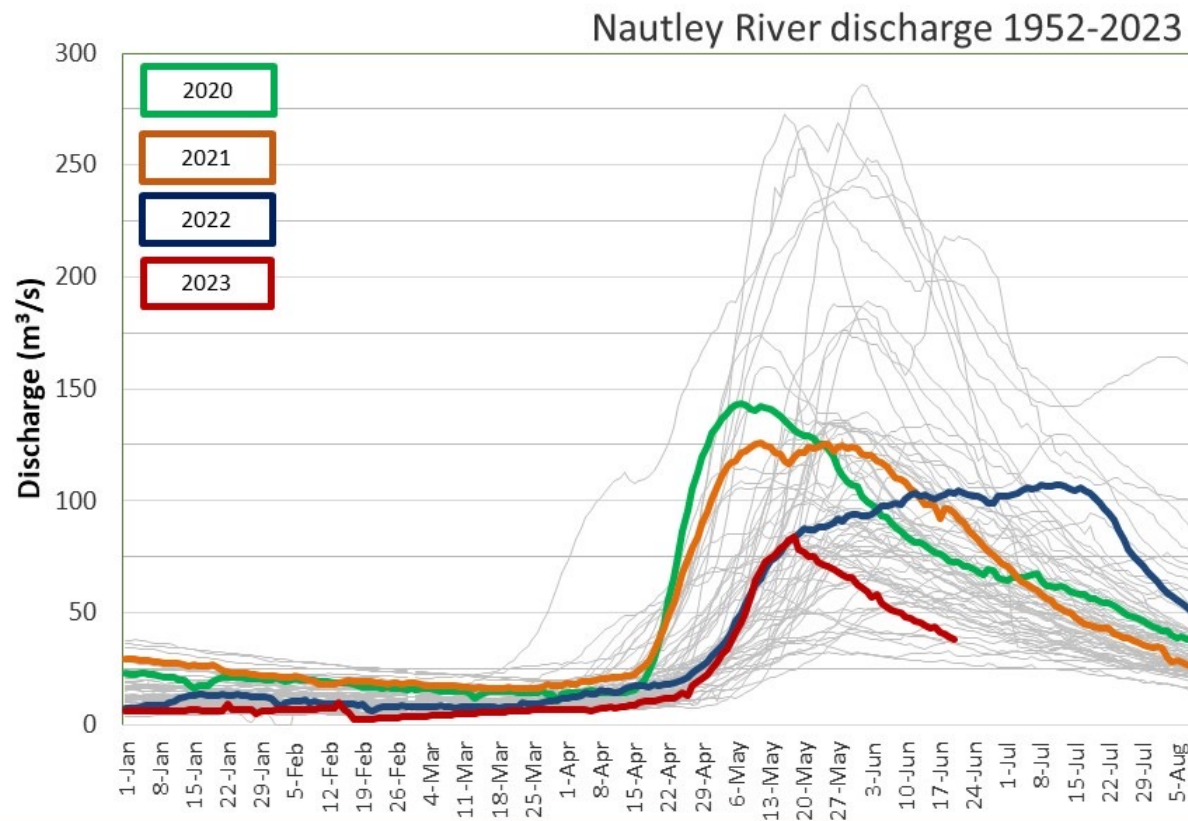
Current = **450 m³/s**

STMP historical average
Discharge = **192 m³/s**

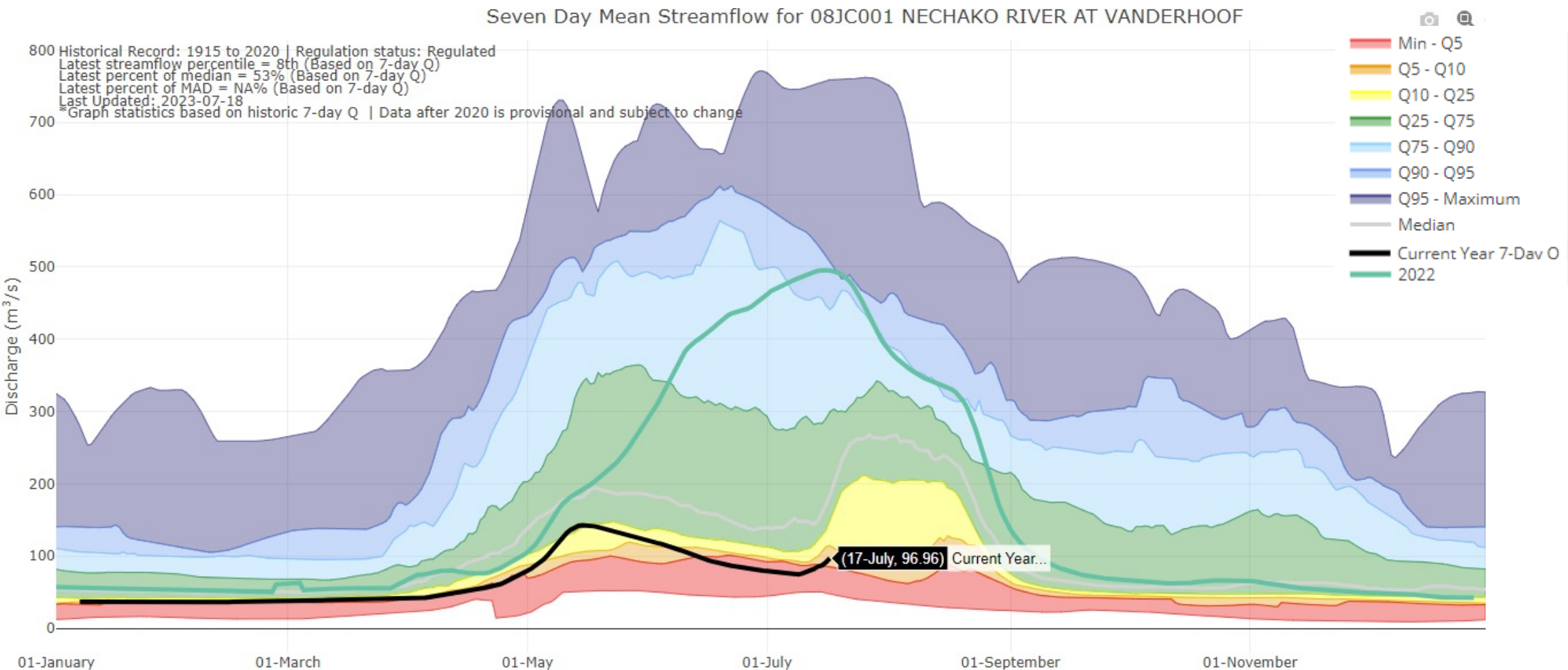
STMP will call for shift down
to 283cms tomorrow
(Thursday)



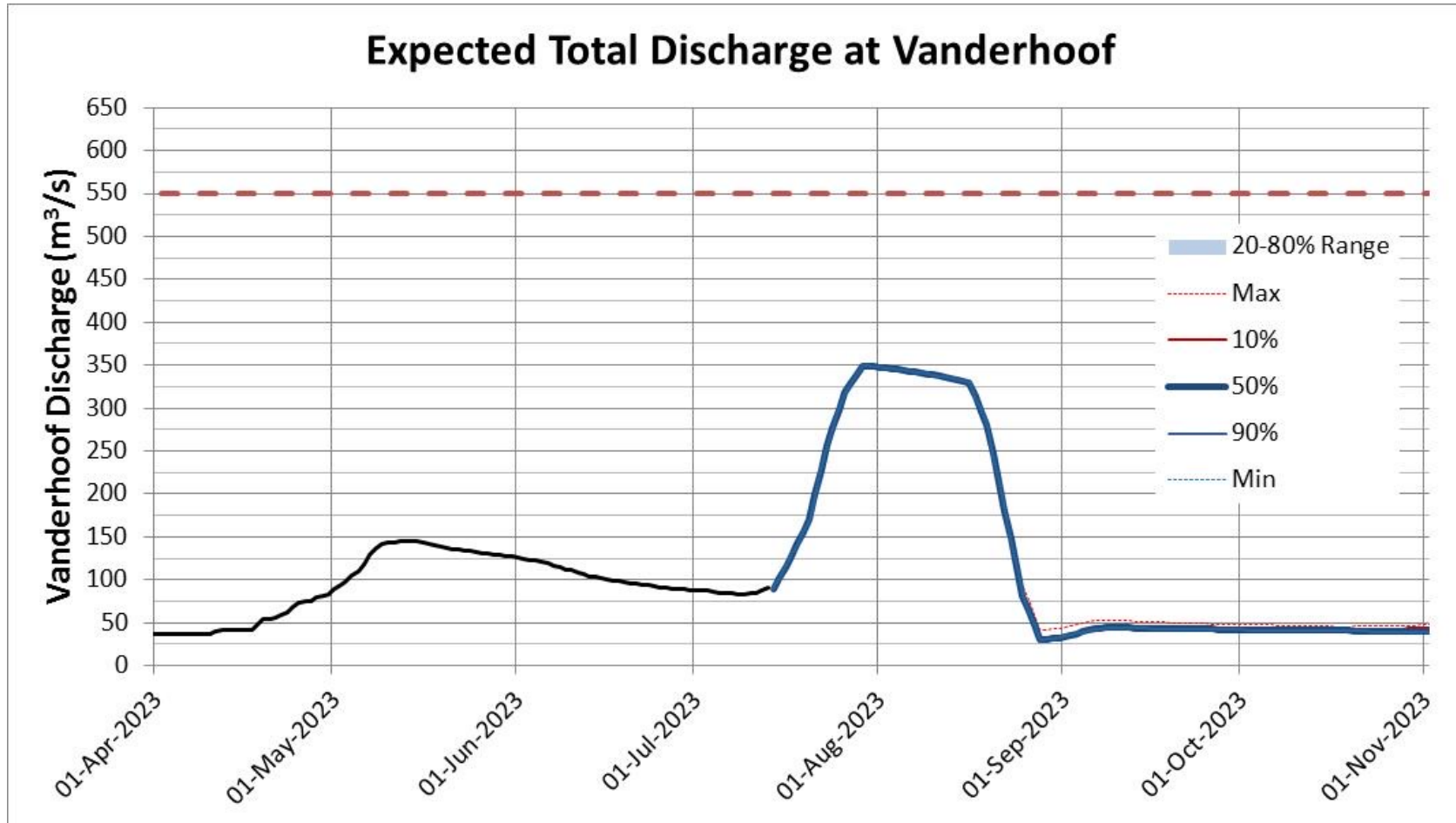
Nautley River Flows, Forecast



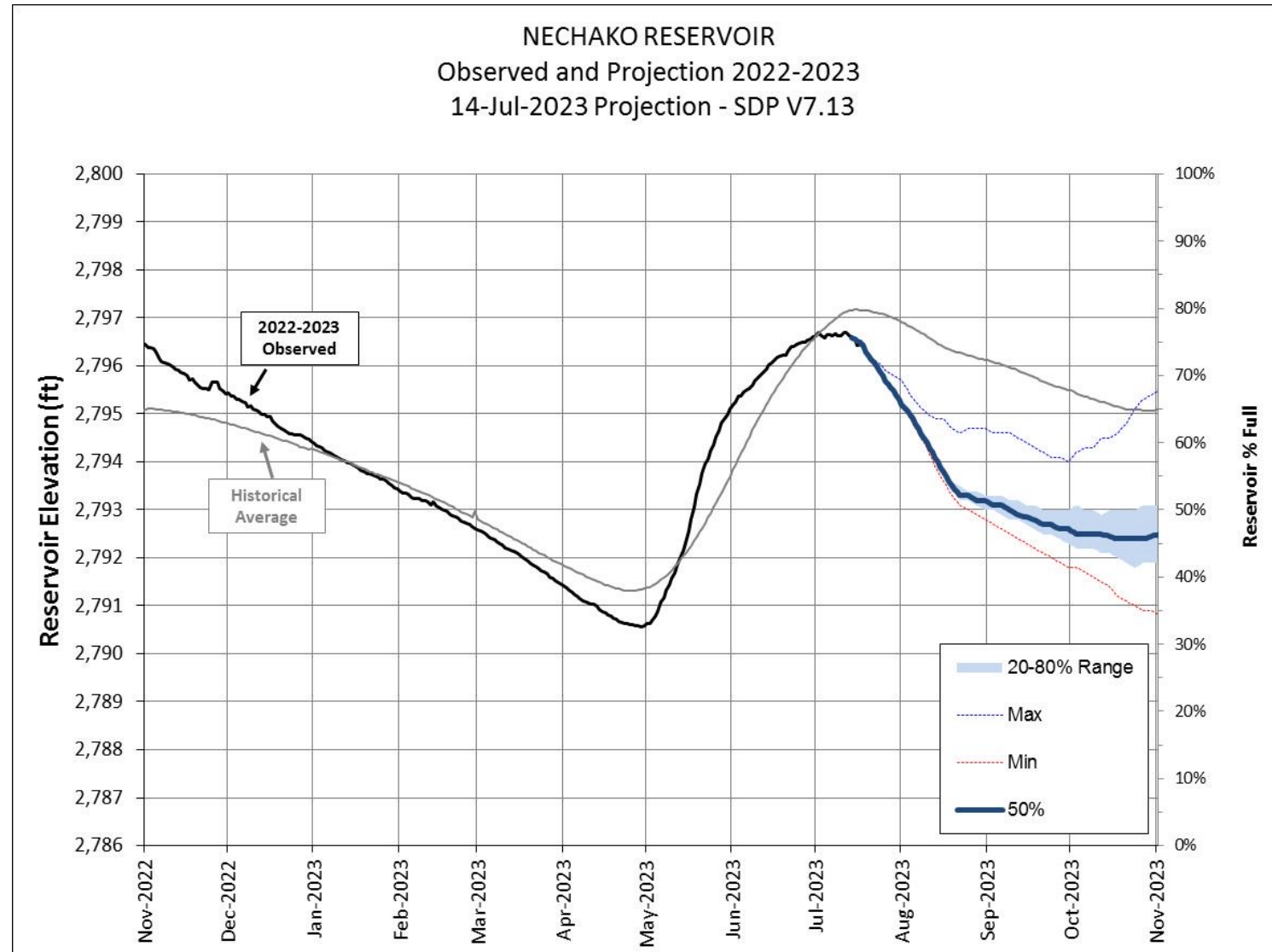
Vanderhoof



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 2nd**

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

