



RioTinto

# Nechako Reservoir / River / Freshet Information Sharing – Community Leaders

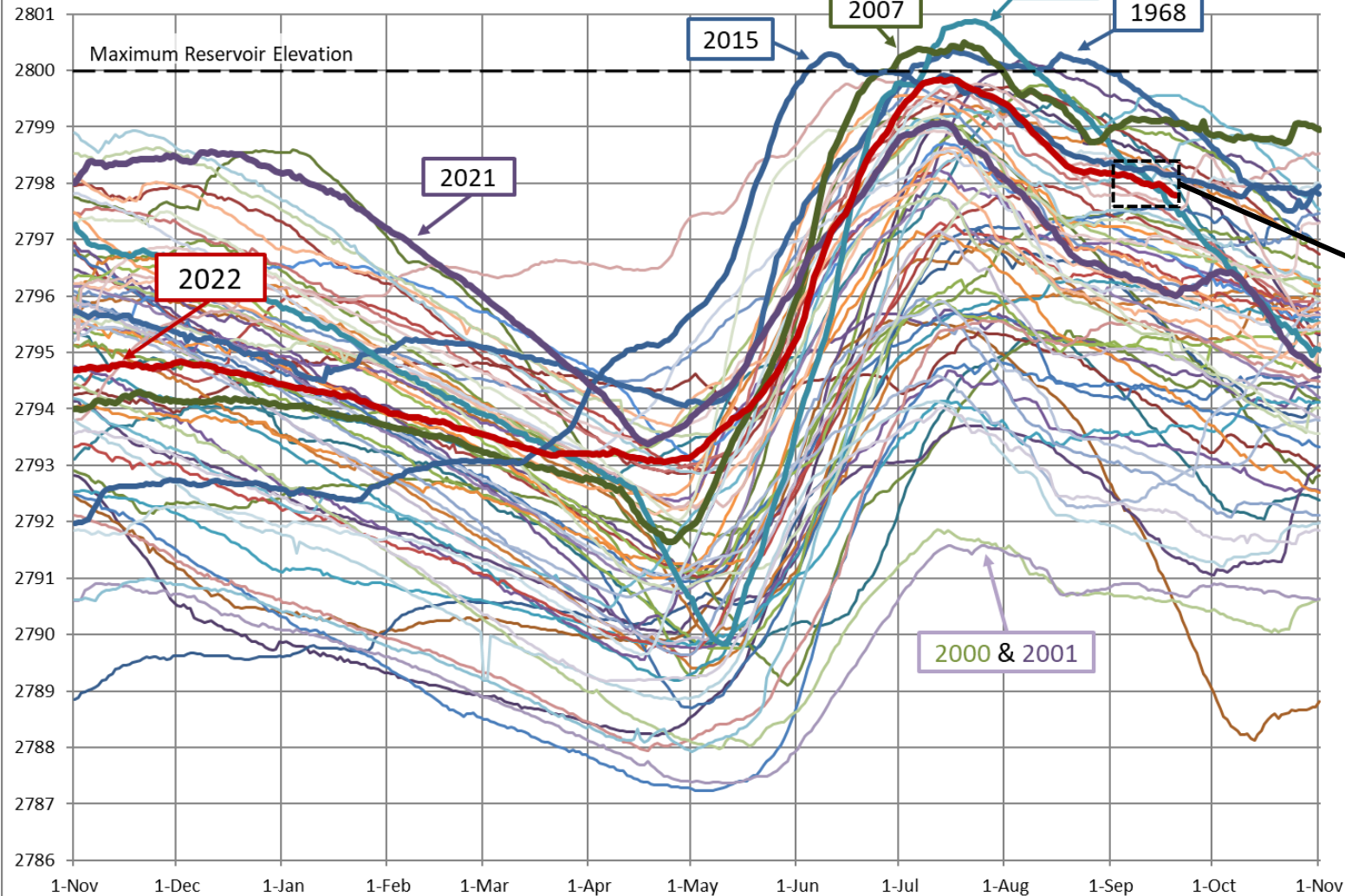
21 September 2022

Prepared by Andrew Czornohalan & Simon Matte

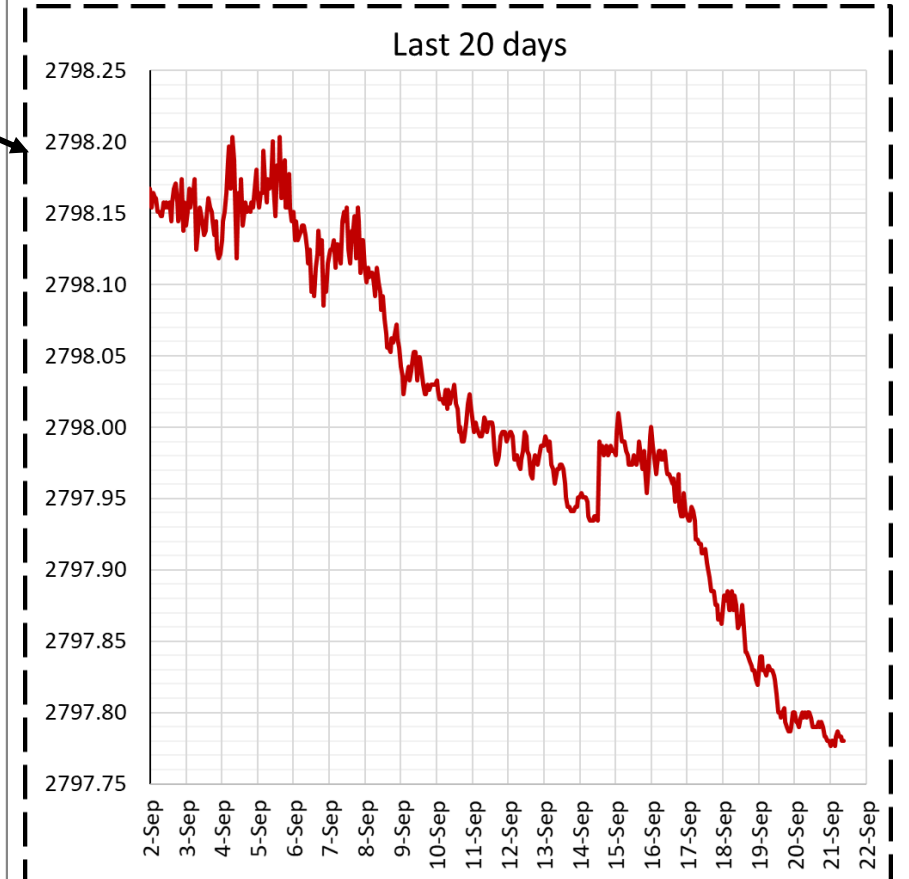


# Reservoir Elevation - Last 20 days

## Nechako Reservoir Historical Elevation since 1957



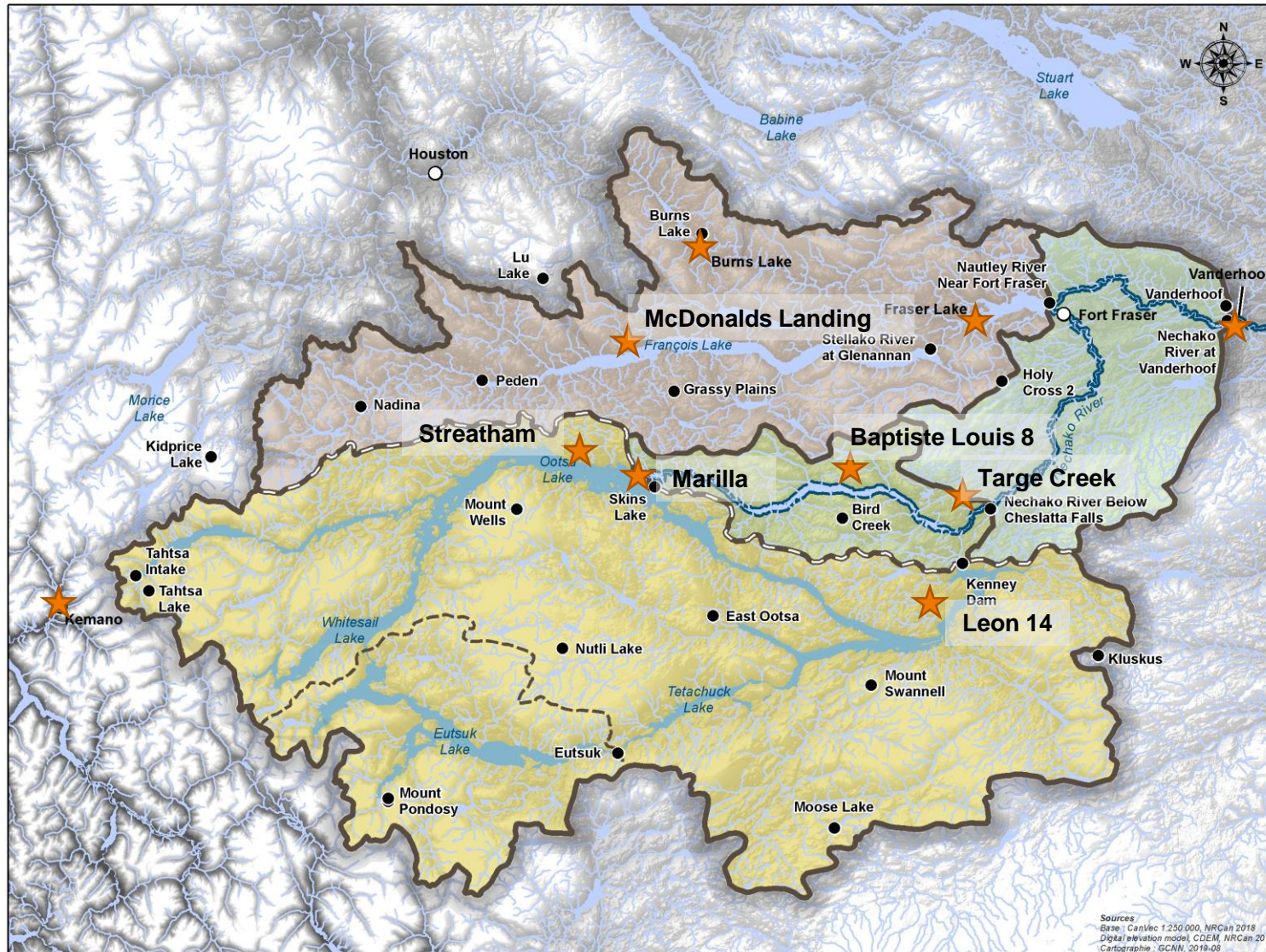
*Current reservoir level:*  
**2797.92 ft.**







# Weather Forecast\*



## Next 7 Days **Burns Lake Weather** ☀️🌧️☁️

	Thu 09/22	Fri 09/23	Sat 09/24	Sun 09/25	Mon 09/26	Tue 09/27	Wed 09/28
	Mainly sunny	A mix of sun and clouds	A mix of sun and clouds	Mainly cloudy	A mix of sun and clouds	Mainly sunny	A mix of sun and clouds
	☀️	☀️🌧️	☀️🌧️	☁️	☀️🌧️	☀️🌧️	☀️🌧️
	19°	12°	14°	16°	20°	19°	16°
Feels like	19	10	13	16	21	19	16
Night	6°	6°	9°	9°	9°	8°	7°
POP	30 %	30 %	30 %	40 %	30 %	20 %	40 %
Wind (km/h)	18 sw	16 sw	14 s	8 s	7 s	8 se	8 s
Wind gust (km/h)	27	24	21	12	11	12	12
Hrs Of Sun	7 h	4 h	3 h	1 h	5 h	7 h	5 h
24 Hr Rain	-	-	1-3 mm	<1 mm	-	-	~1 mm

### \*Possible Weather Stations

#### Nechako Reservoir

- Kemano
- Streatham
- Marilla
- Leon 14

#### Cheslatta

- Baptiste Louis 8
- Targe Creek

#### Nautley

- McDonalds Landing
- Burns Lake
- Fraser Lake

#### Nechako River

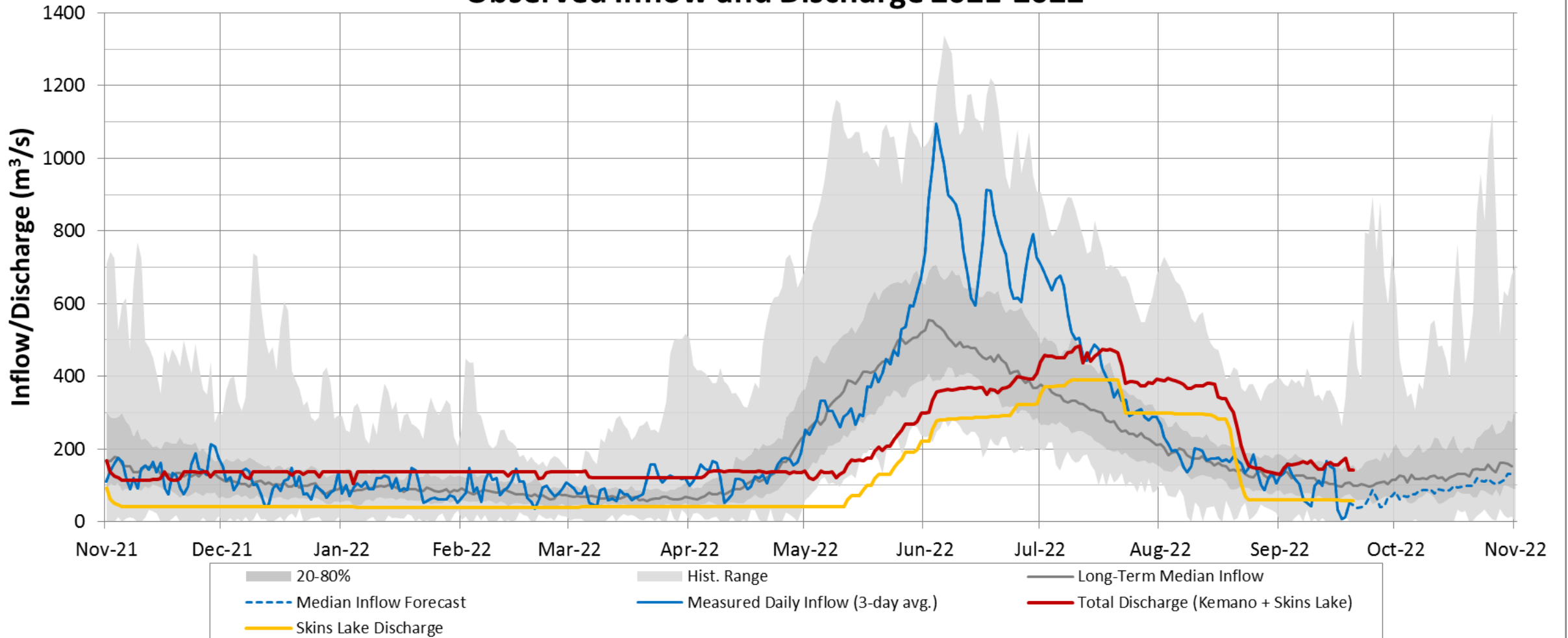
- Vanderhoof

Sources  
Base: CanVec 1:250,000, NRCan 2018  
Digital elevation model: CDEM, NRCan 2017  
Cartographie: GCNN, 2019-06



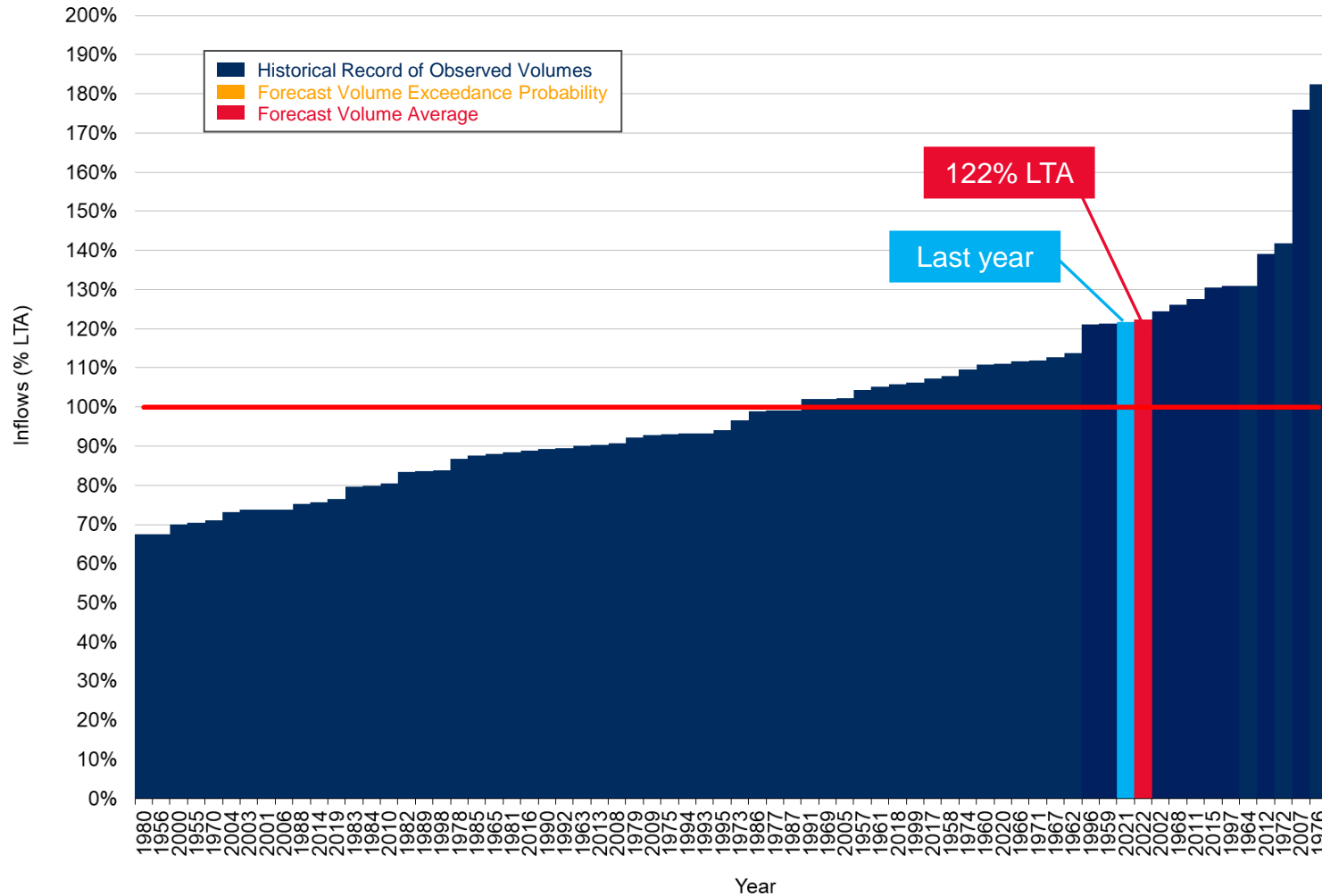
# Observed Inflows & Discharge vs Historical

## Nechako Reservoir Operation Observed Inflow and Discharge 2021-2022



# Spring Freshet Inflow Forecast

2022 Freshet Volume Forecast vs Historical Record [1 April - 31 August]  
Ranked Values - 31 Aug 2022



# SLS – Resulting Flows at Cheslatta Falls

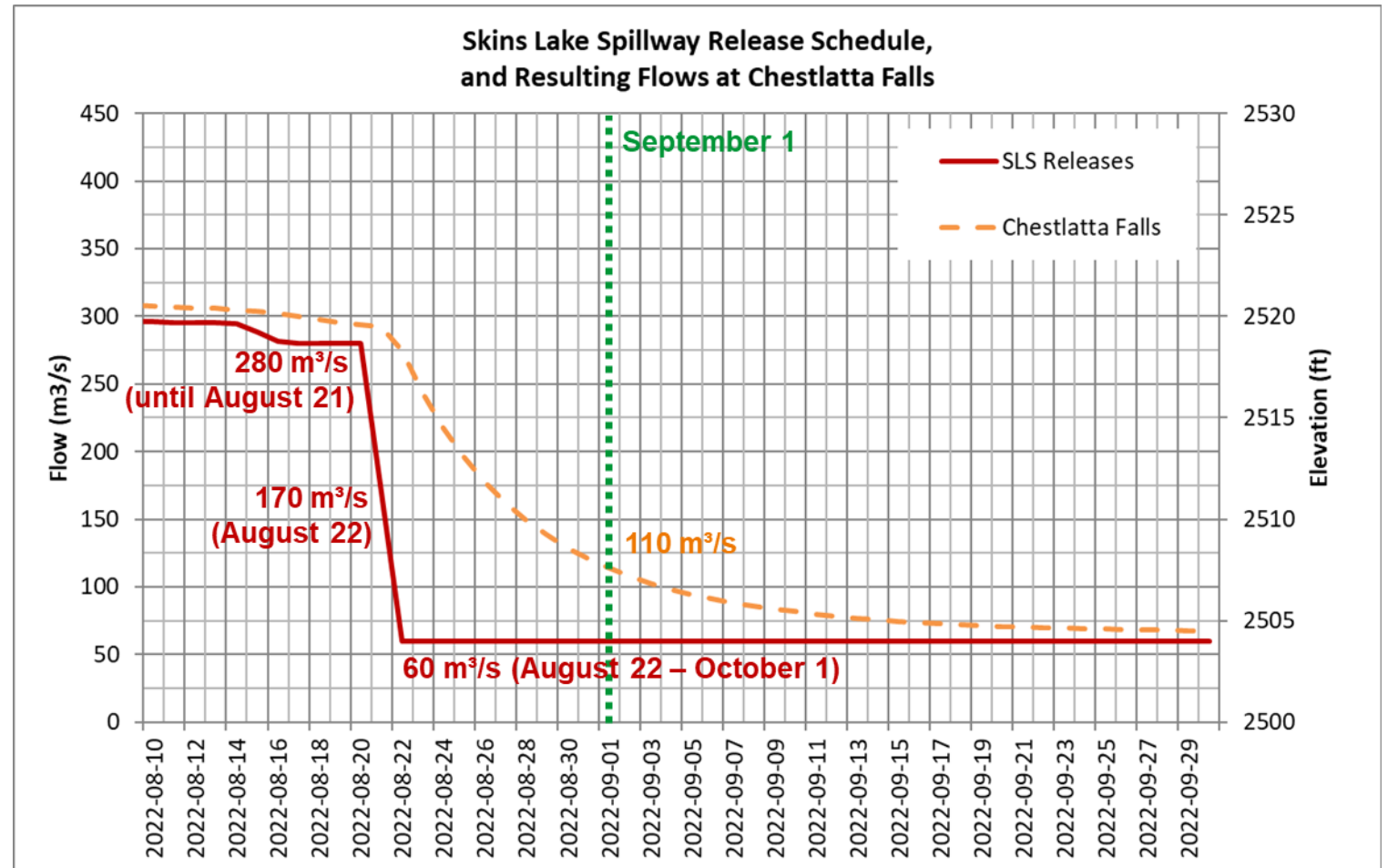
*At the end of STMP on August 20 :*

- 280 m<sup>3</sup>/s to 170 m<sup>3</sup>/s (August 20)
- 170 m<sup>3</sup>/s to **60 m<sup>3</sup>/s** (August 21 to October 1)
- Follow the same *step down* profile as 2021

September flow = **60 m<sup>3</sup>/s**

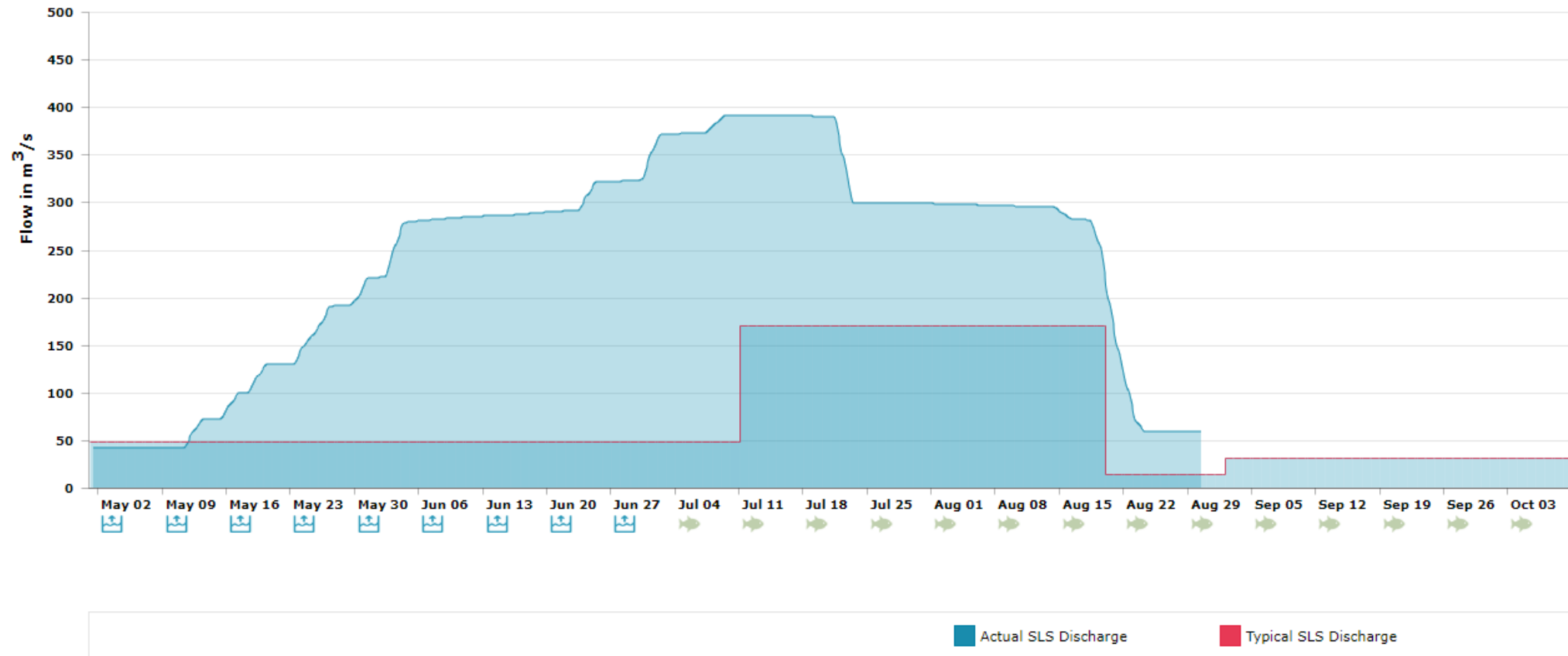
**Remainder of Fall and Winter flows to be determined in real time**

Winter minimum = **32 m<sup>3</sup>/s**



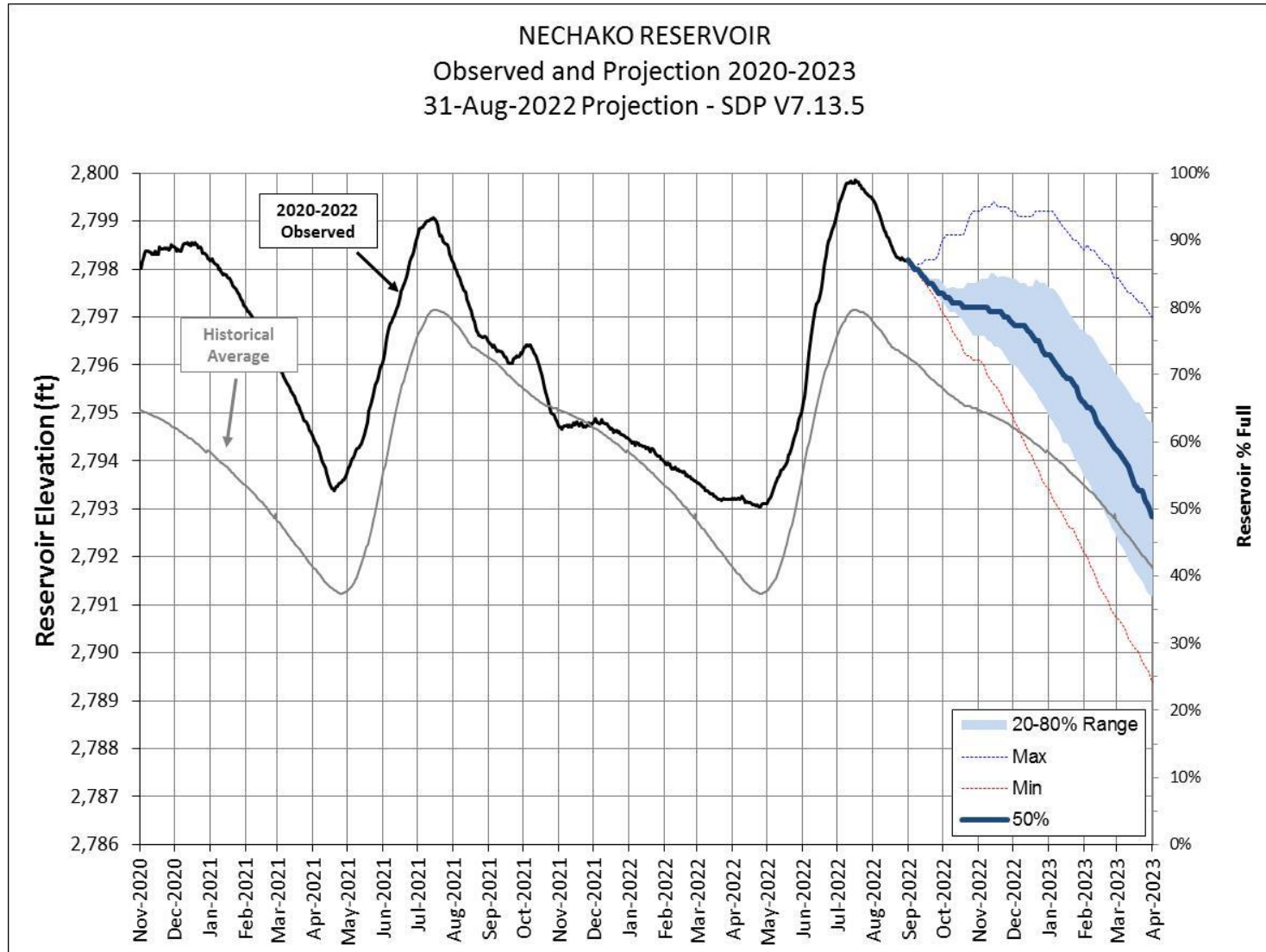
# 2022 Review

Skins Lake Spillway Discharge





# Reservoir Level Projection





# Feedback & Reflections

