

An aerial photograph of a mountain valley. In the foreground, a suspension bridge spans a deep, rocky gorge. Several workers in orange safety gear are visible on the bridge. To the left, a small, simple building sits on a rocky slope. In the background, a large reservoir is nestled in a valley, surrounded by steep, rocky mountains. A power line tower is visible on the left side of the image.

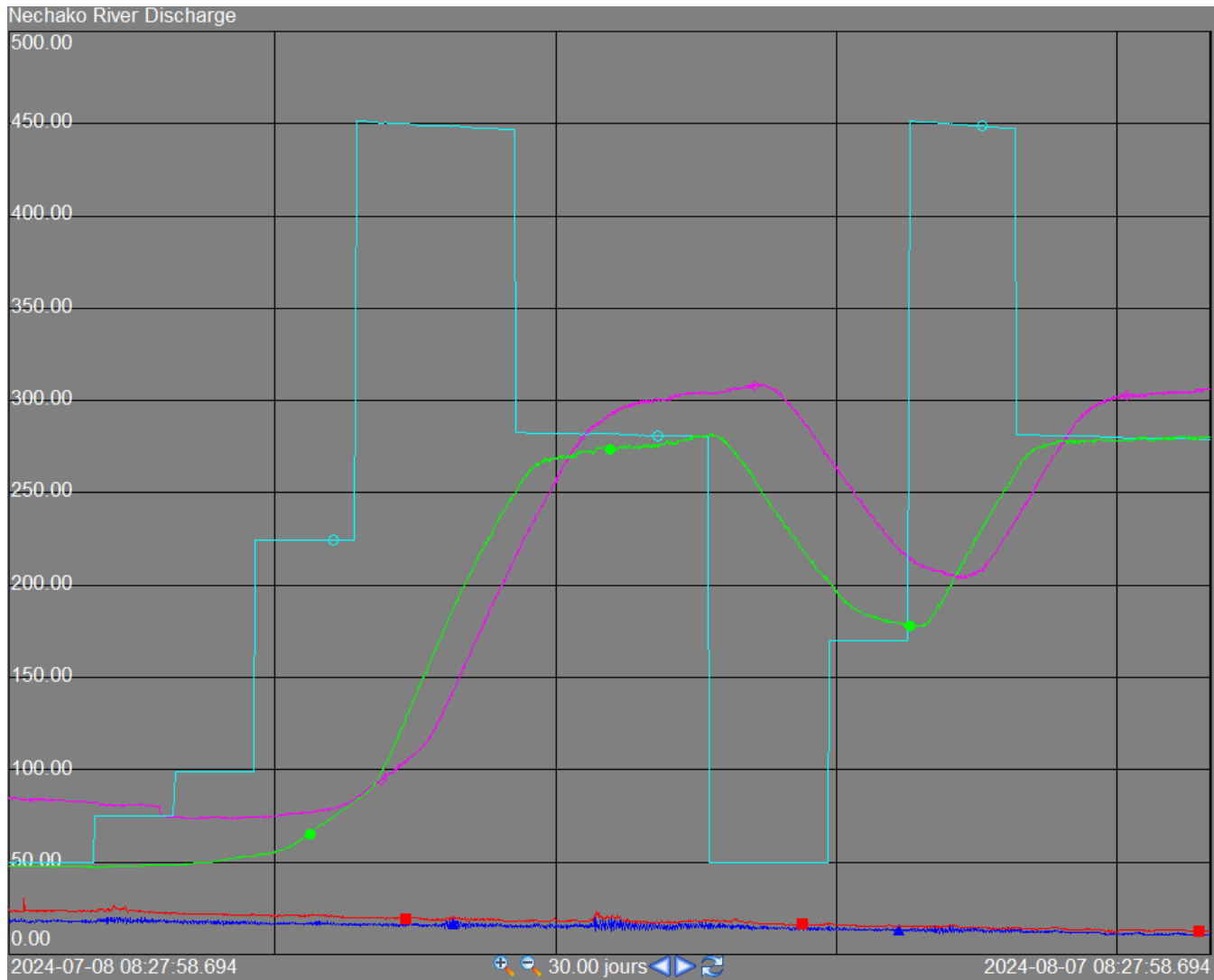
RioTinto

Nechako Reservoir / River / Freshet Information Sharing – Community Leaders

07th August 2024

Prepared by Andrew Czornohalan
& Water Resources Group

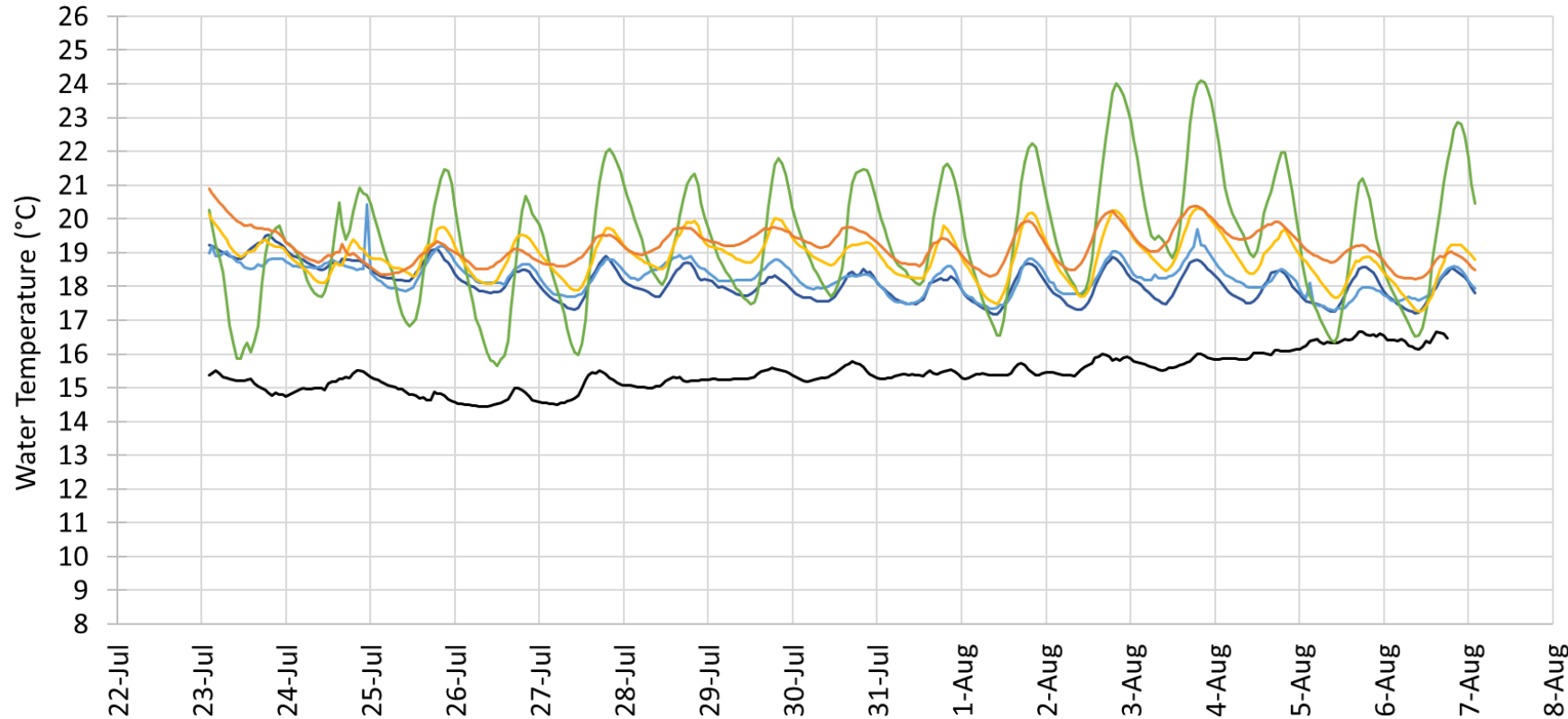
Flows - Last 30 days



Current values (m³/s)	
<i>Vanderhoof</i>	306
<i>Skins Lake</i>	279
<i>Cheslatta Falls</i>	280
<i>Nautley</i>	13
<i>Stellako</i>	11

Observed Water Temperatures – Last 15 days

Water Temperatures - Last 15 days



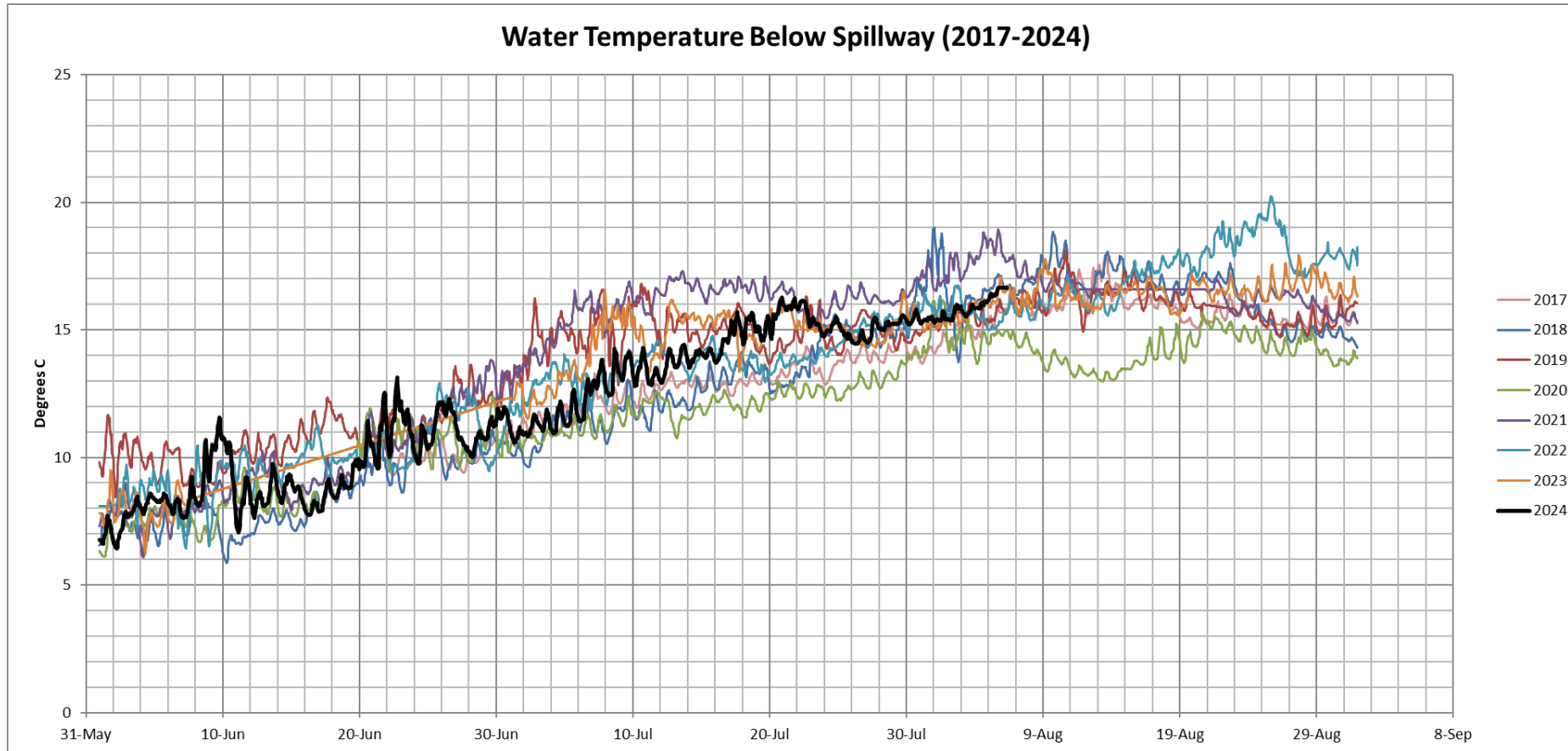
— Below Spillway — Cheslatta Falls — Fort Fraser — Nautley River — Vanderhoof — Finmoore

Average – Last 24h (°C)

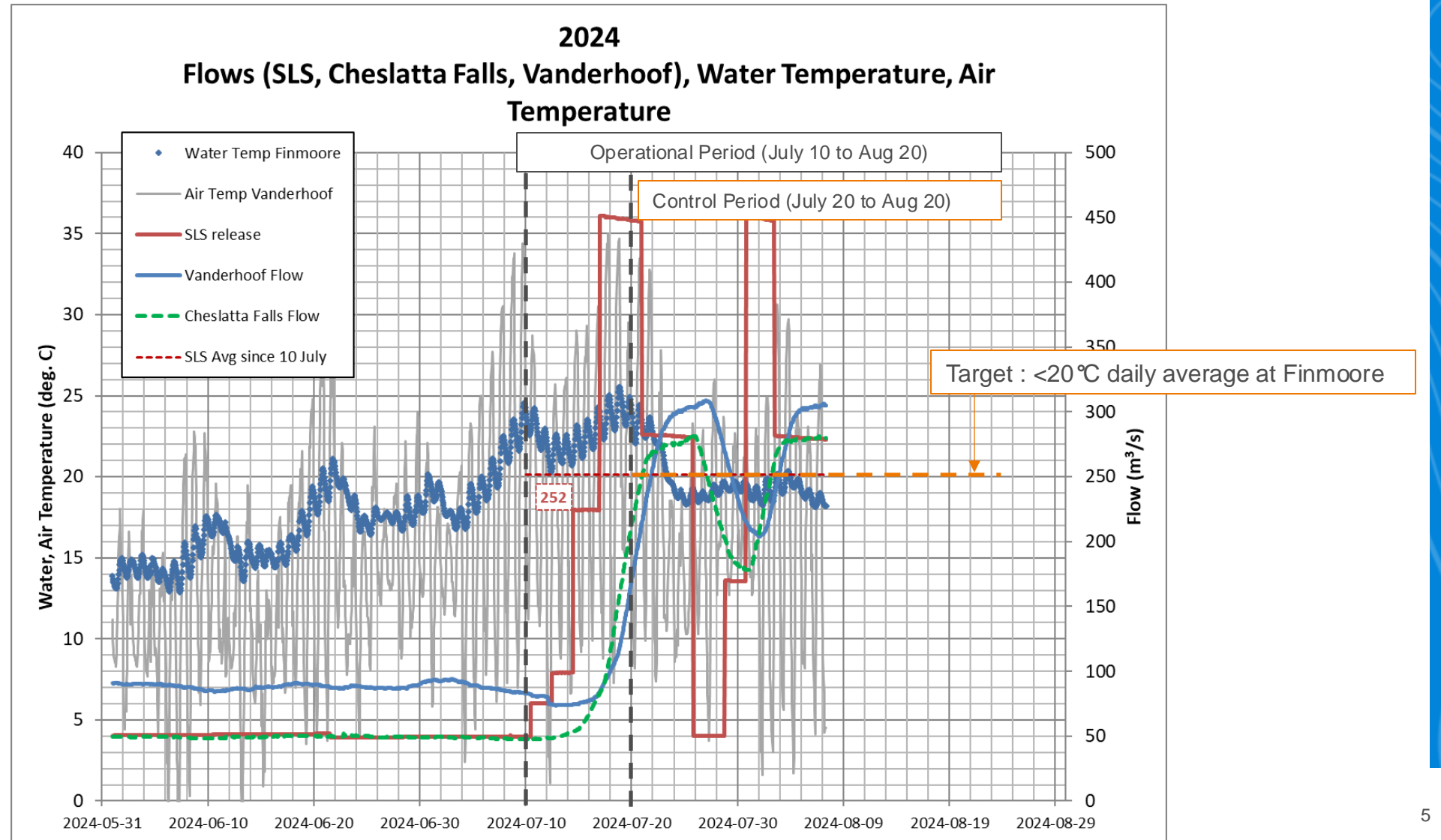
Below spillway	16.4
Cheslatta Falls	17.8
Fort Fraser	18.0
Nautley River	19.4
Vanderhoof	18.3
Finmoore	18.6

Water Temperature Below Spillway

* 2024 so far within historical range

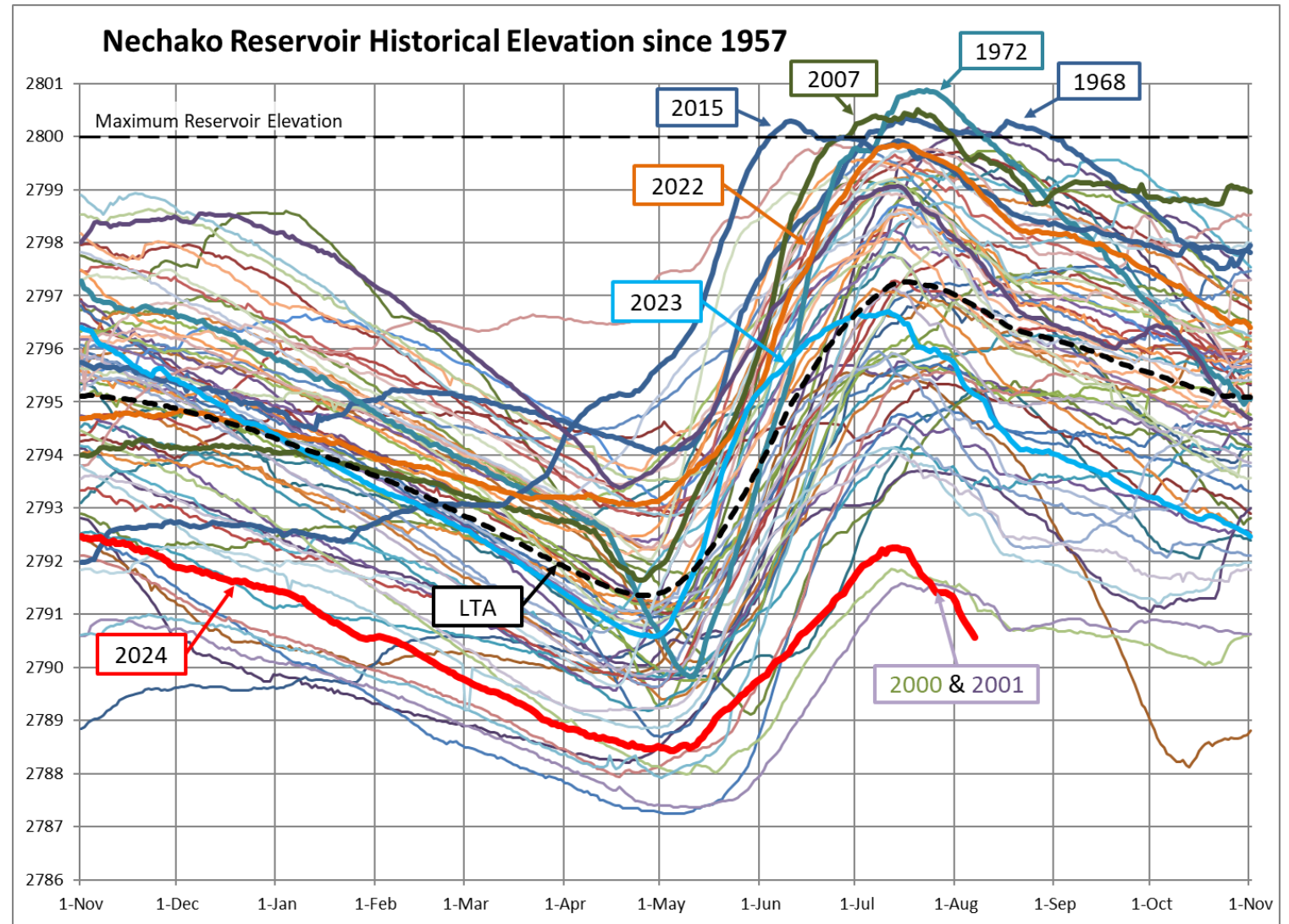
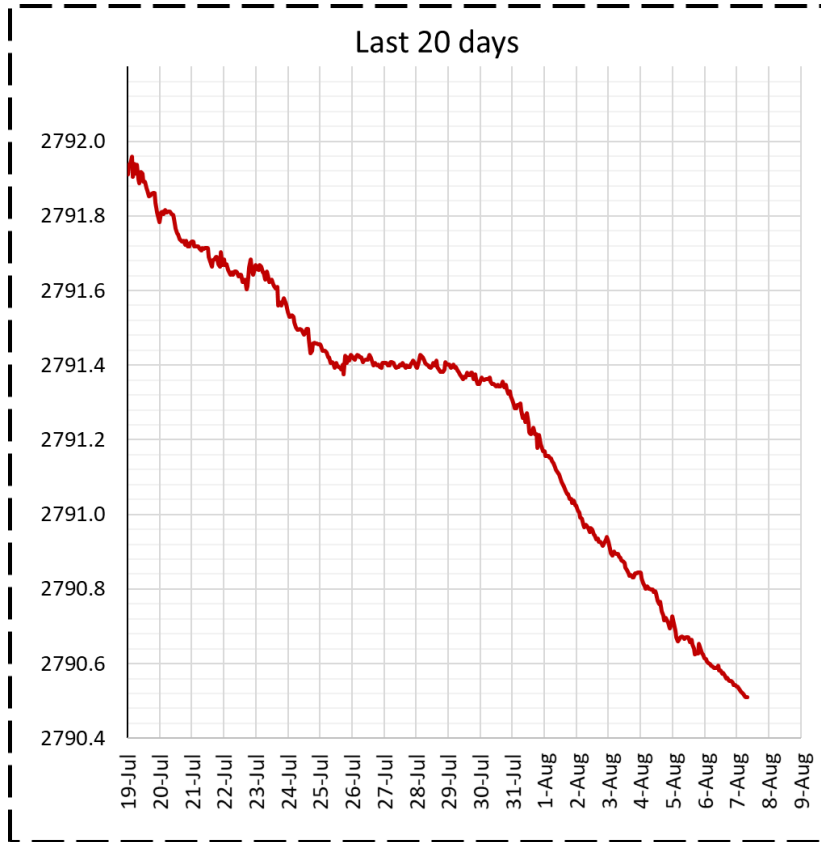


Flows, Water Temperature, Air Temperature

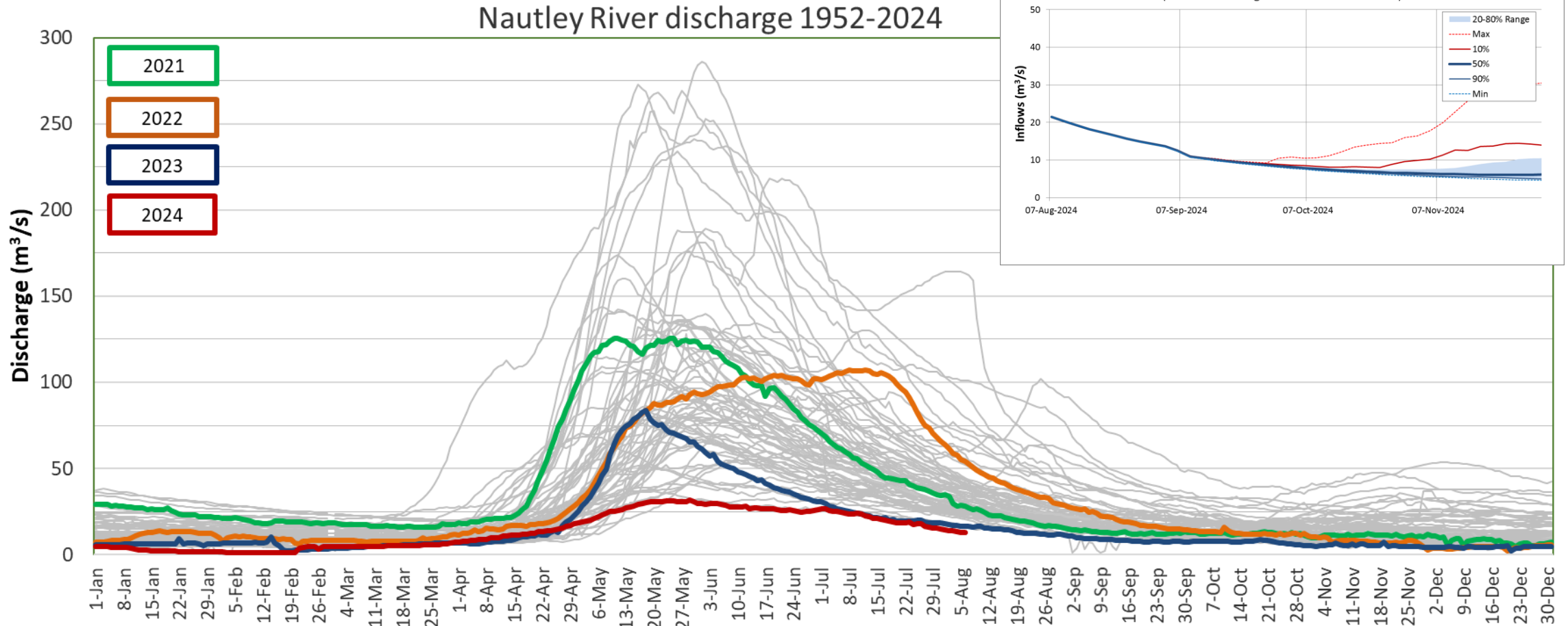


Reservoir Elevation - Last 20 days

Current reservoir level
2790.51 ft (Approx)

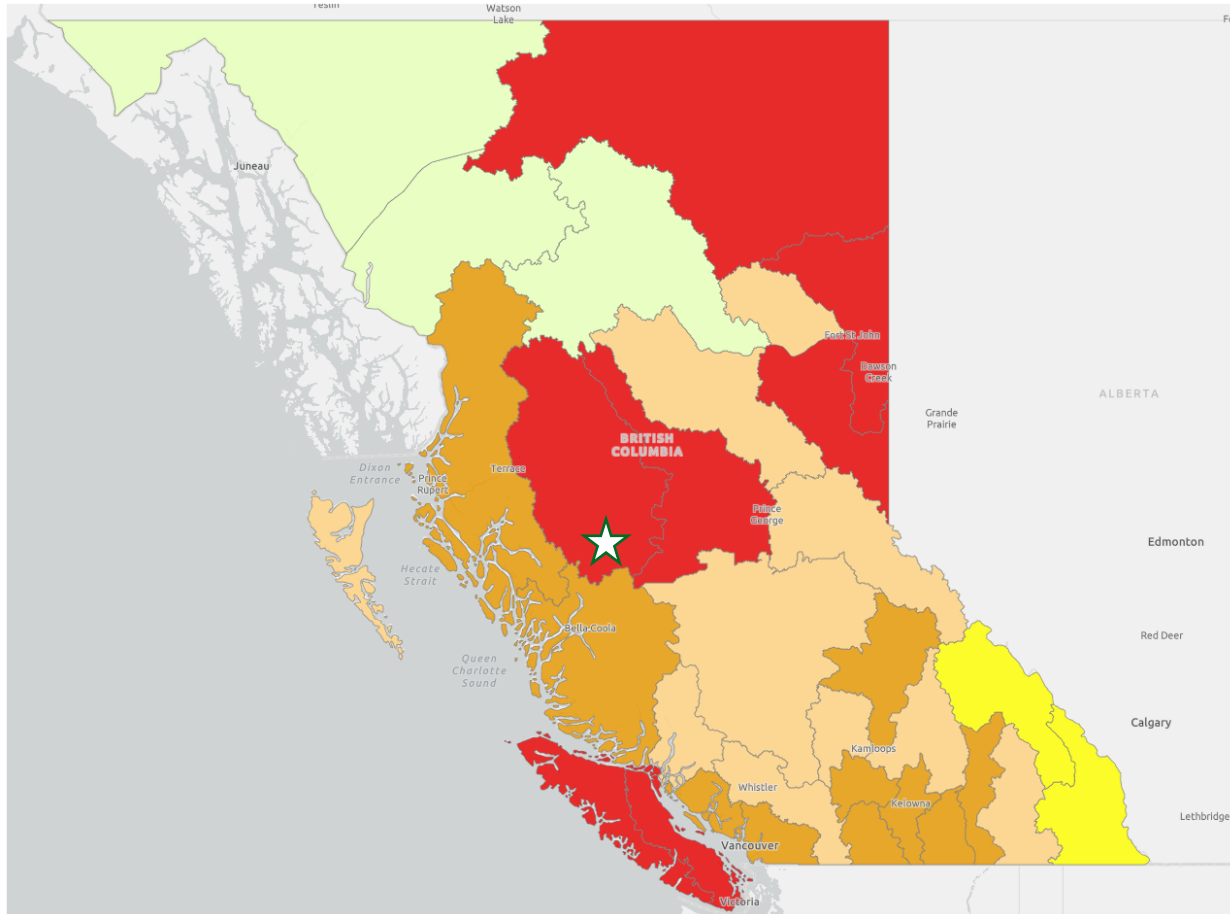


Nautley River Flows, Forecast



Provincial Advisories - Drought

Drought Level 4 : Adverse Impacts Likely



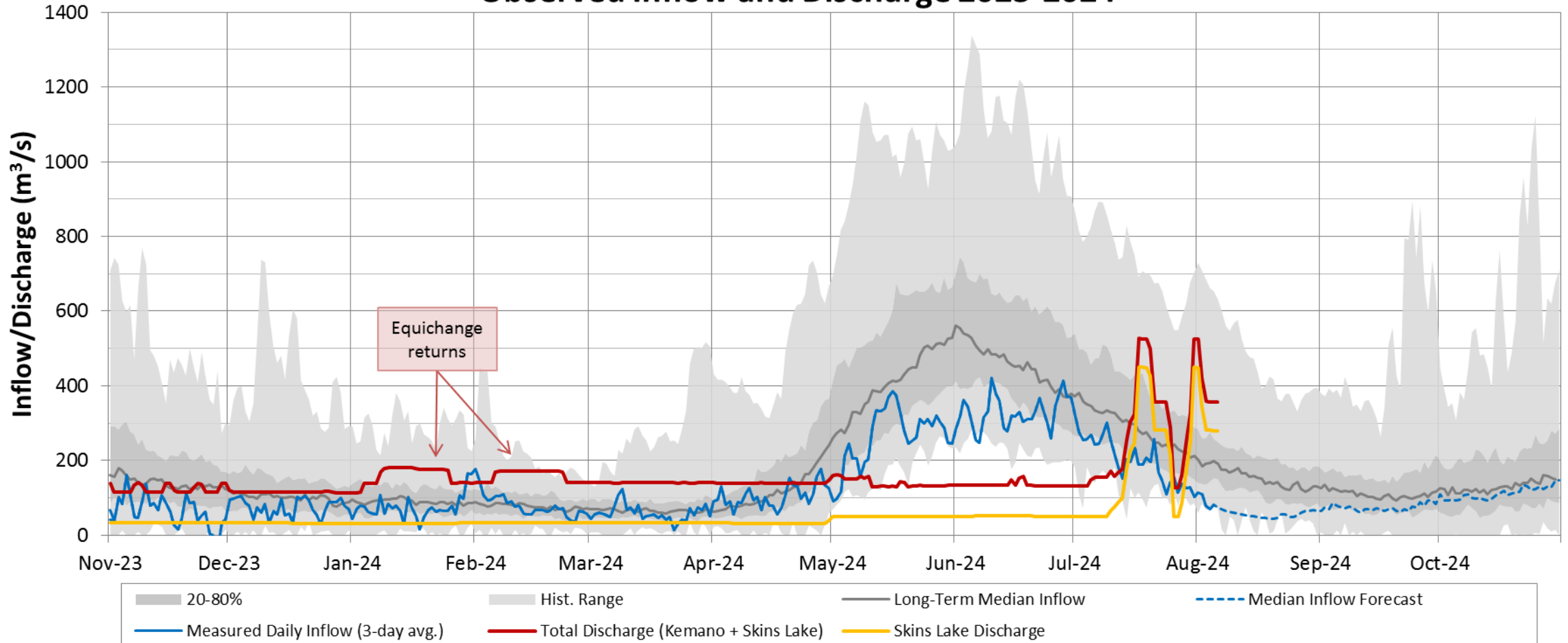
British Columbia Drought Levels

-  Drought Level 0 - No Adverse Impacts
-  Drought Level 1 - Adverse Impacts Rare
-  Drought Level 2 - Adverse Impacts Unlikely
-  Drought Level 3 - Adverse Impacts Possible
-  Drought Level 4 - Adverse Impacts Likely
-  Drought Level 5 - Adverse Impacts Almost Certain

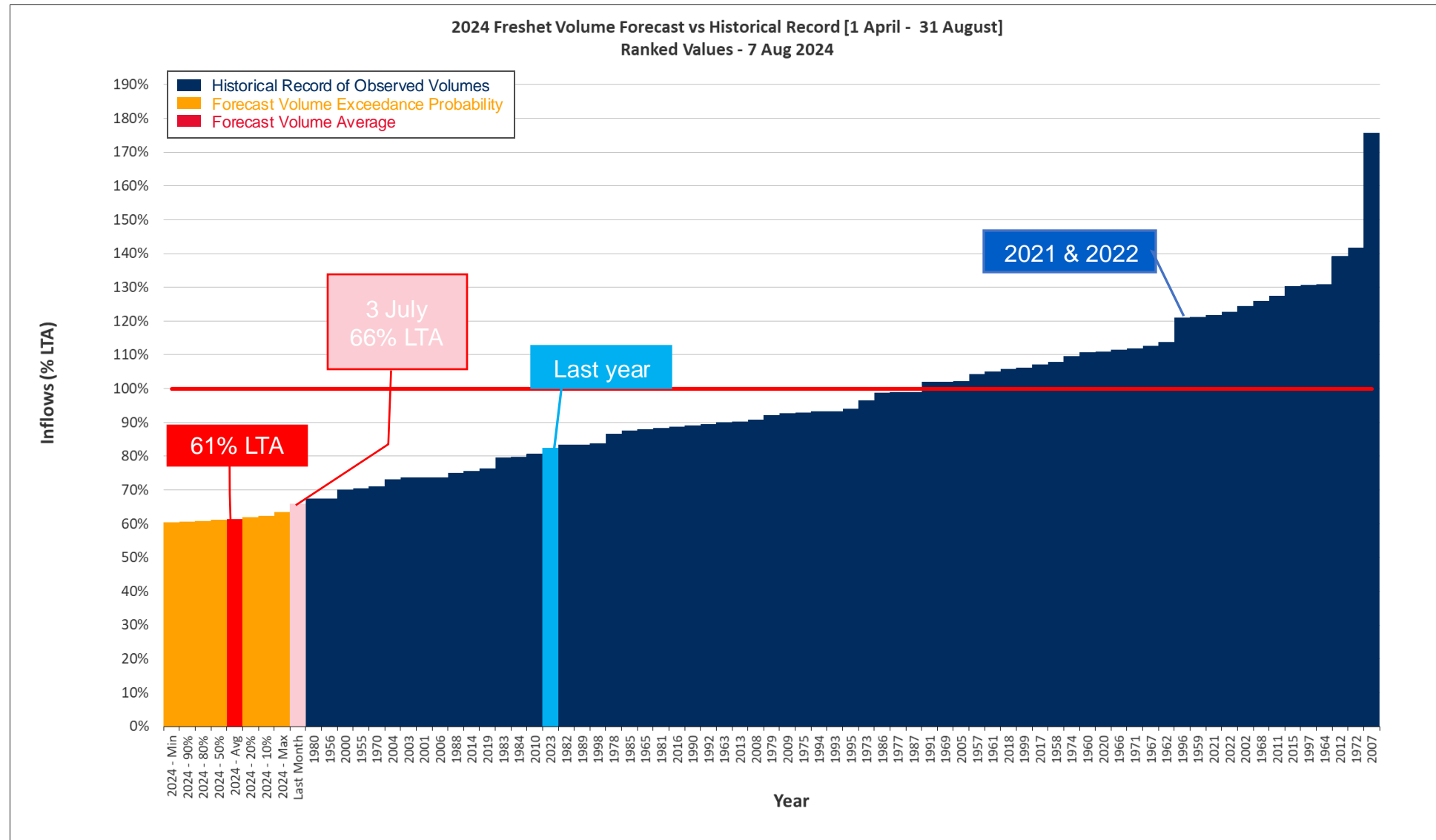
Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, NRCAN, Parks Canada | Water Management Branch and GeoBC, Ministry of Water, Land and Resource Stewardship.
Drought conditions as of: August 1, 2024

Observed Inflows & Discharge vs Historical

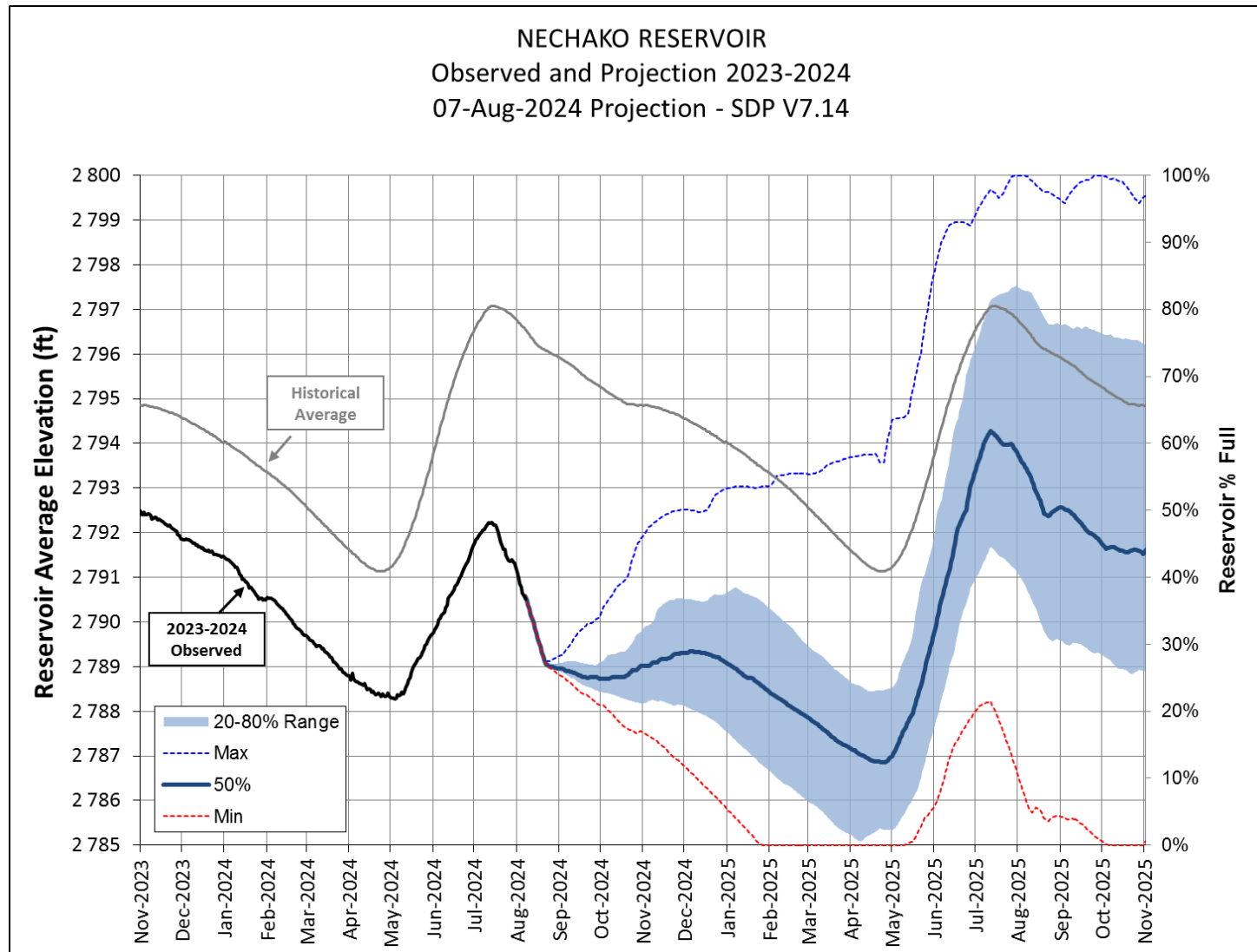
Nechako Reservoir Operation Observed Inflow and Discharge 2023-2024



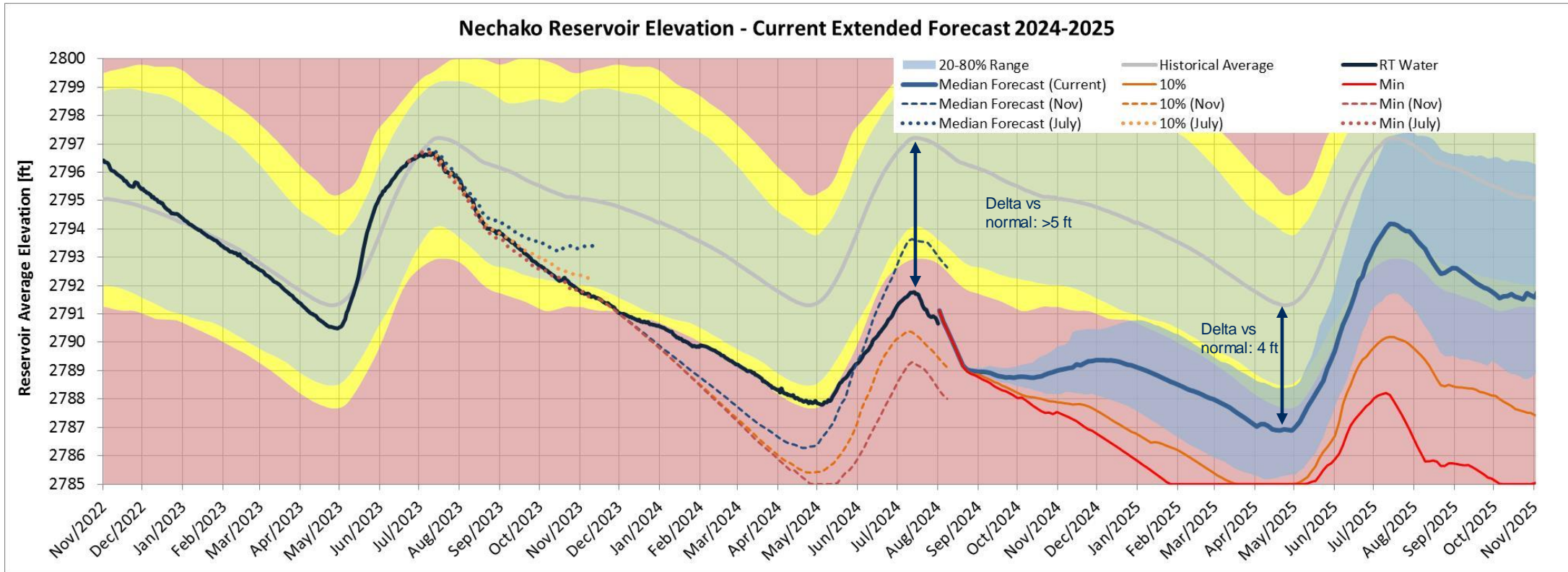
Spring Freshet Inflow Volume Forecast



Reservoir Level Projection

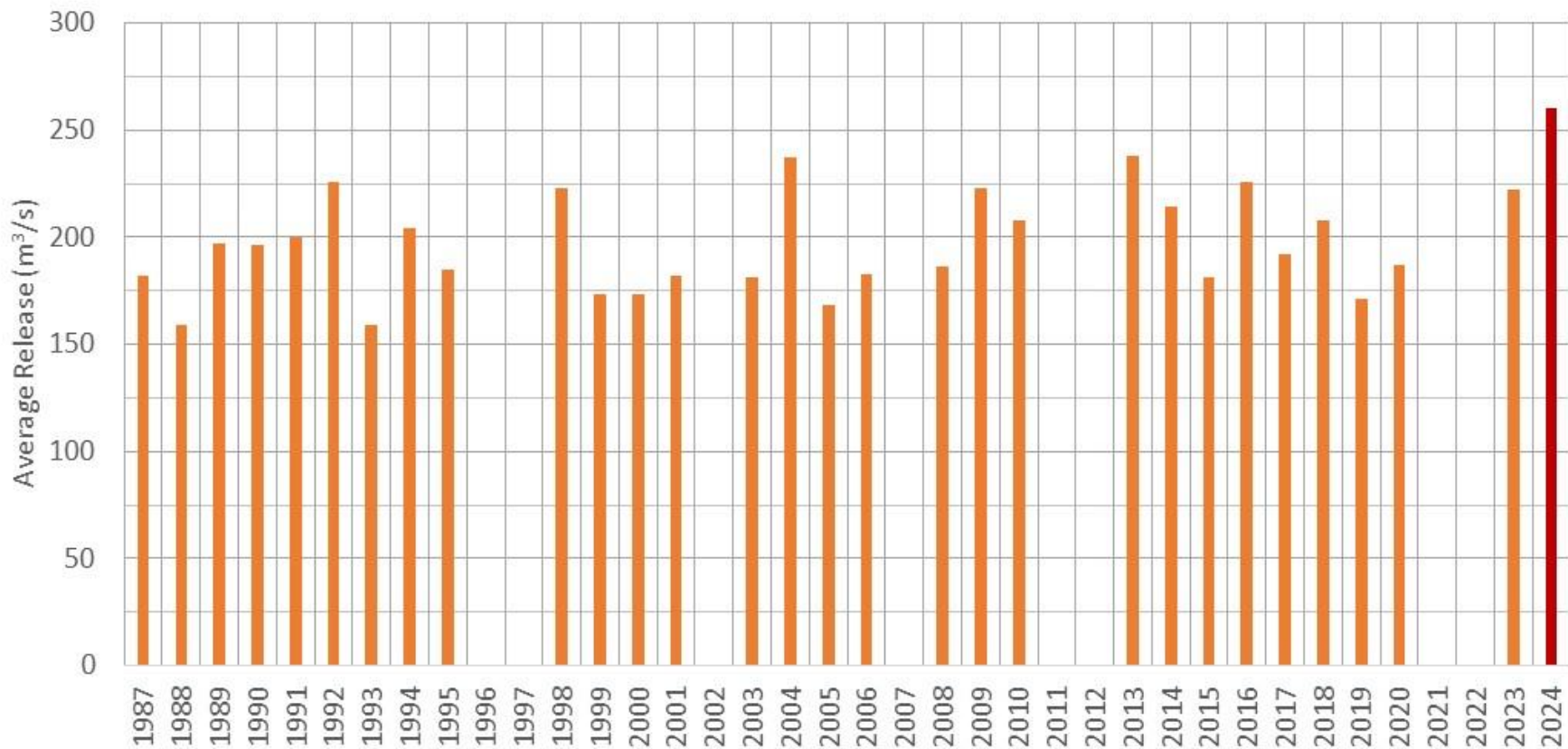


Reservoir Level Projection – Long Term



STMP Record

Average STMP Releases since 1987 (10 July-20 Aug)



Historical record

- Blank years are when reservoir control spills superseded STMP releases
- 2024 is an estimate, with the expected 283 m³/s until Aug 20
- Expecting average of 260 cms over entire STMP (10 Jul-20 Aug)

Skins Lake Spillway Release - Forecast

- Current release = 279 m³/s

