

Liaison Committee Meeting #34
Maritime Heritage Centre, Rotary Room



What's coming up!

Weather and Inflow Observations

- Regional weather
- Mountain snowpack
- Reservoir inflow

Future Weather and Climate Variability

- Environment Canada outlook
- Water supply forecast
- Climate change

Campbell River Operations



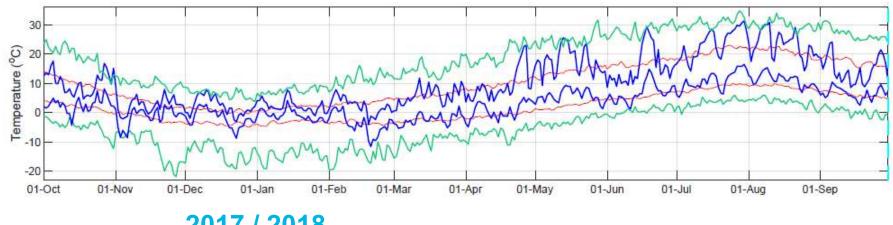


Weather and Inflow Observations

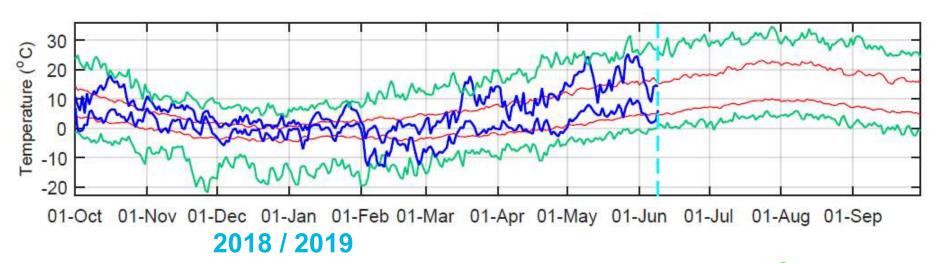


Regional weather conditions: temperature

Strathcona watershed daily max/min temperatures (°C)

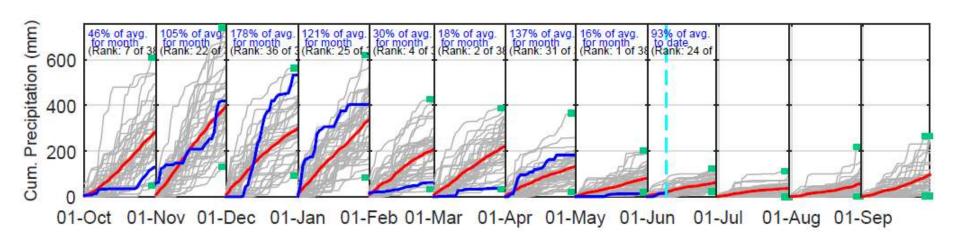


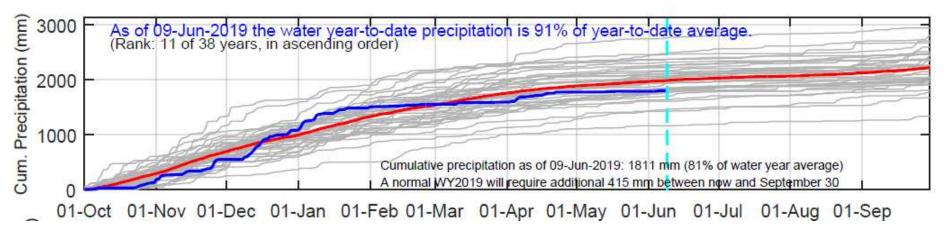
2017 / 2018



Regional weather conditions: precipitation

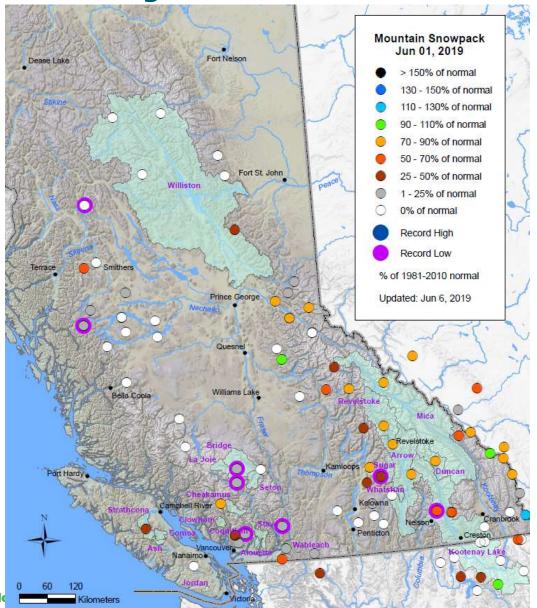
Strathcona Water Year 2019 Updated 10-Jun-2019 12:11





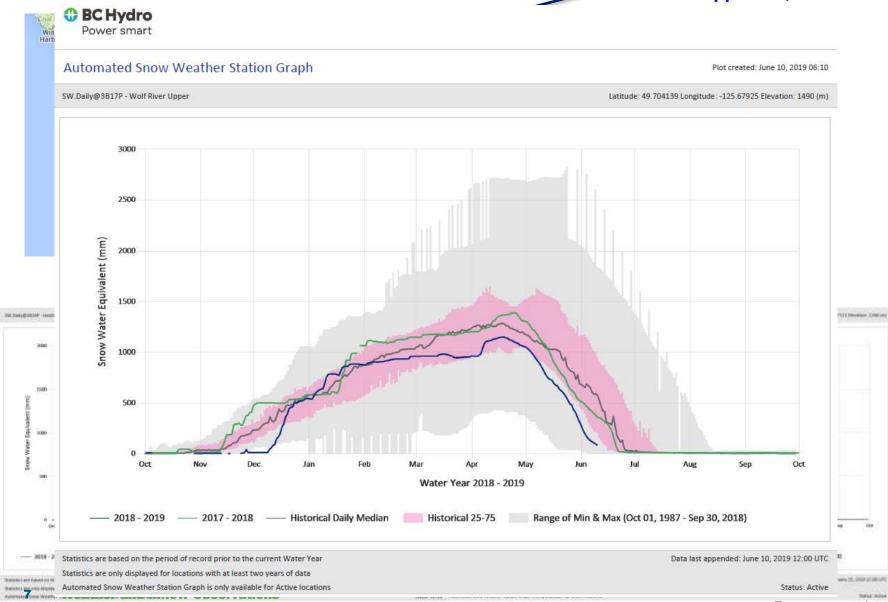


BC snow survey data

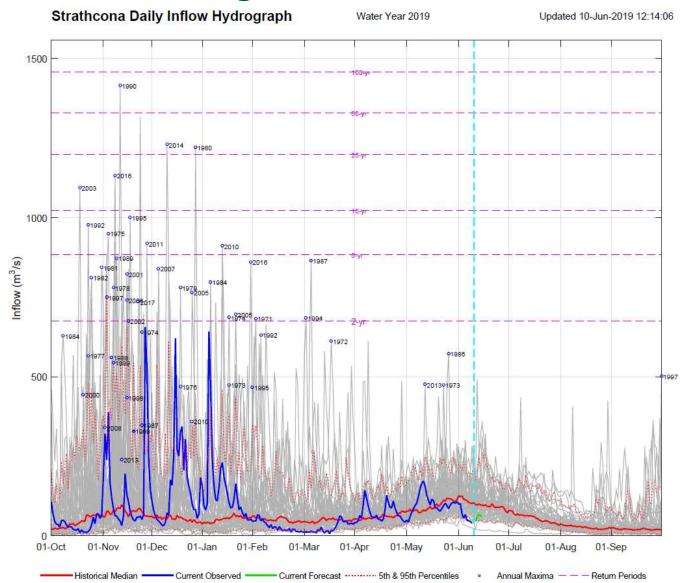




Vancouver Island snowpack Wolf River Upper - 1,422 m

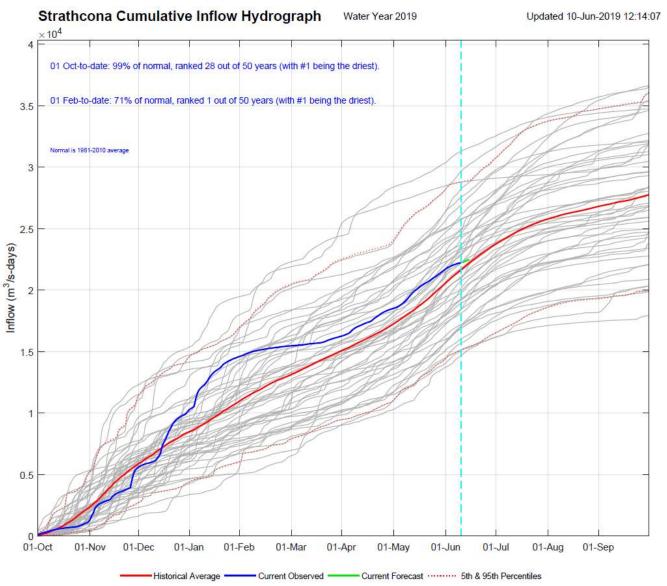


Reservoir daily inflow



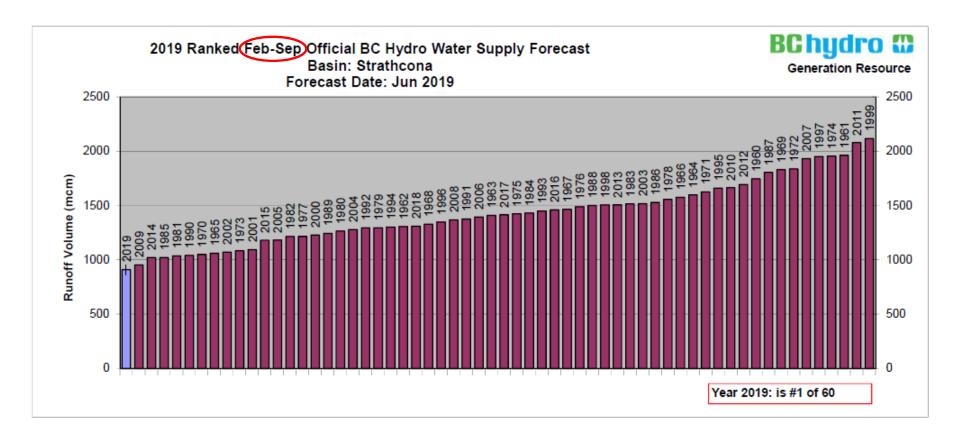


Reservoir cumulative inflow





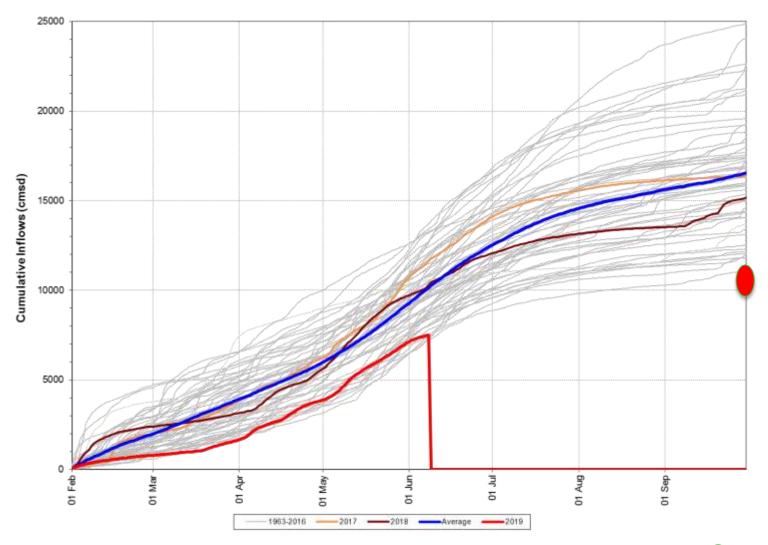
Campbell R. water supply forecast





Reservoir cumulative inflow

Strathcona Historical Cumulative Inflows for 1963-2018, 2019

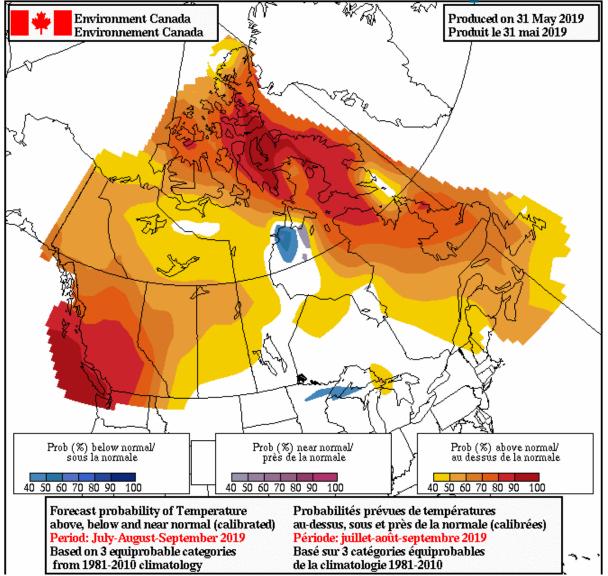




Future Weather and Climate Variability



Canada weather outlook: temperature





Climate change



bc hydro & climate change





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IPDF] Potential Impacts of Climate Change on BC Hydro-Managed Water ... https://www.bchydro.com/content/dam/hydro/.../climate_change_report_2012.pdf ▼ Global climate change is upon us. Both natural cycles and anthropogenic greenhouse gas emissions influence climate in British Columbia and the river flows that supply the vast majority of power that BC Hydro generates. BC Hydro's climate action strategy addresses both the mitigation of climate change through reducing ...





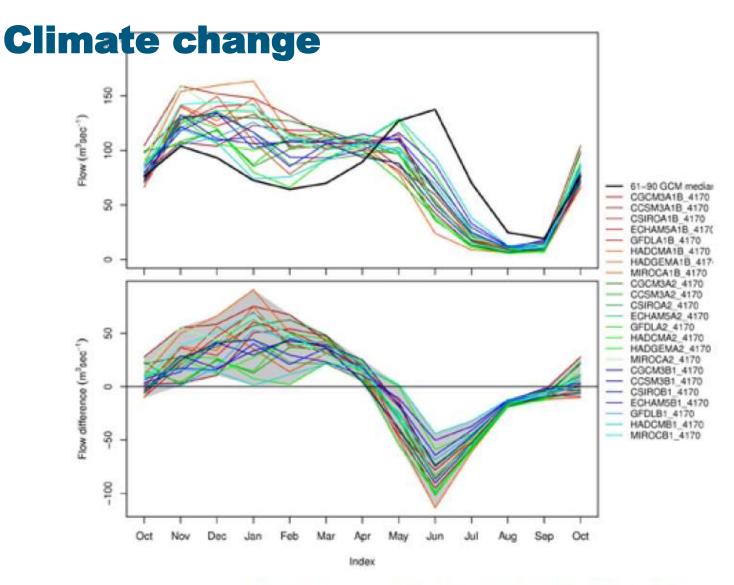


Figure 12: (a) Observed and future 2050s monthly inflow into Campbell River at Strathcona Dam and (b) flow anomalies relative to historical baseline for each study (bold lines). The historic baseline is the median of all historic runs. Future streamflow is shown as the monthly median for each individual GCM/emission scenario combination. (Source: PCIC (Schnorbus et al., 2011)).

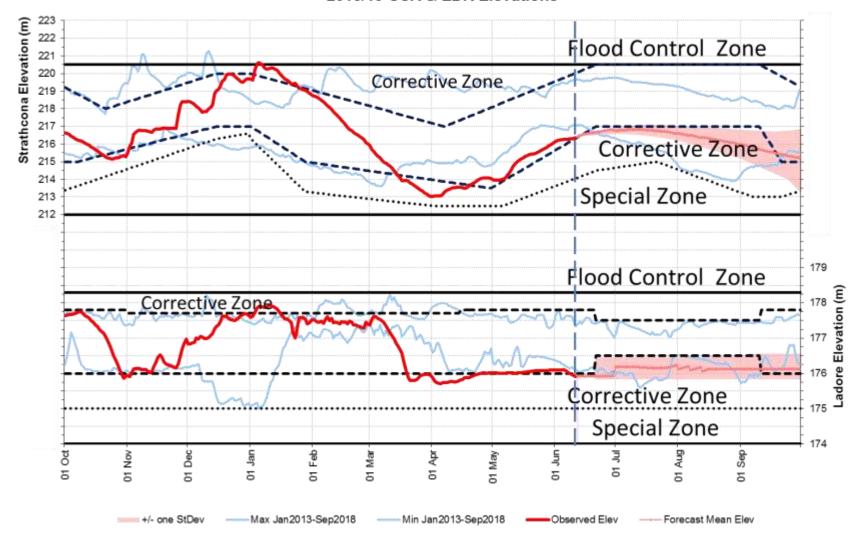


Campbell River Operations



Strathcona and Ladore – June 12th

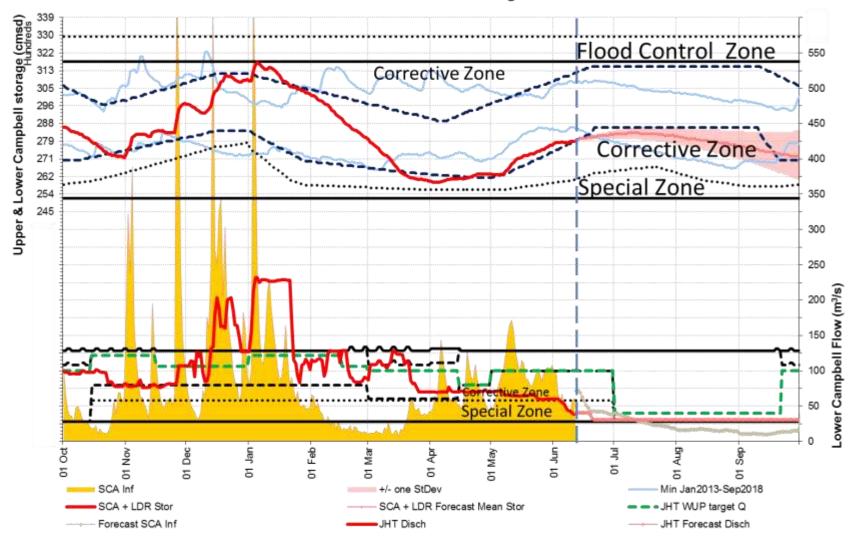
2018/19 SCA & LDR Elevations





System storage and river flow – June 12th

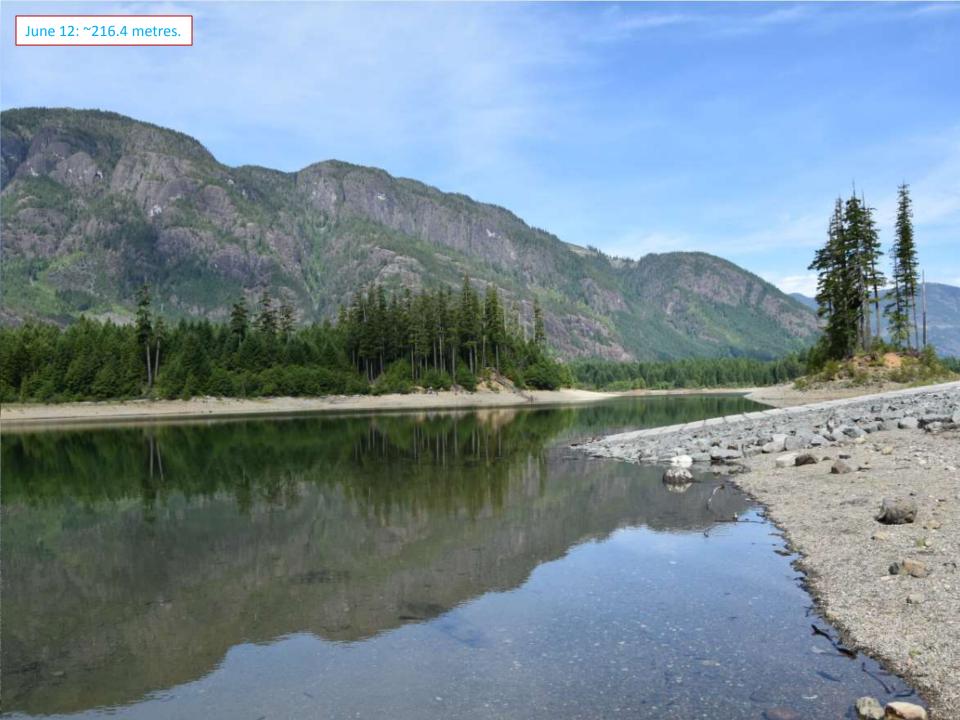
2018/19 Combined SCA & LDR Storage and JHT Outflows

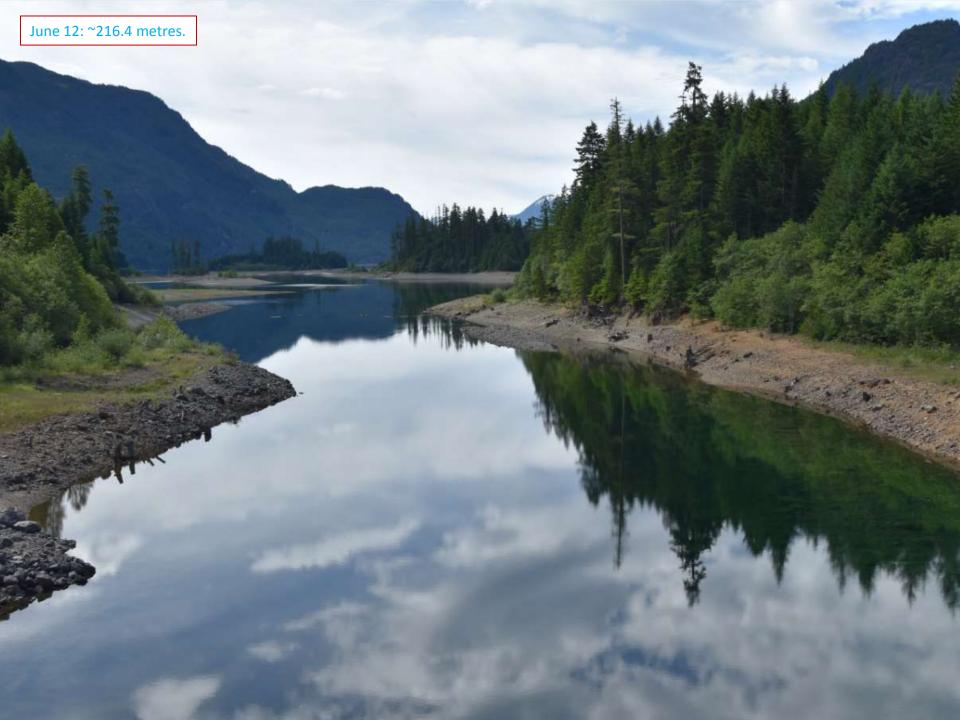


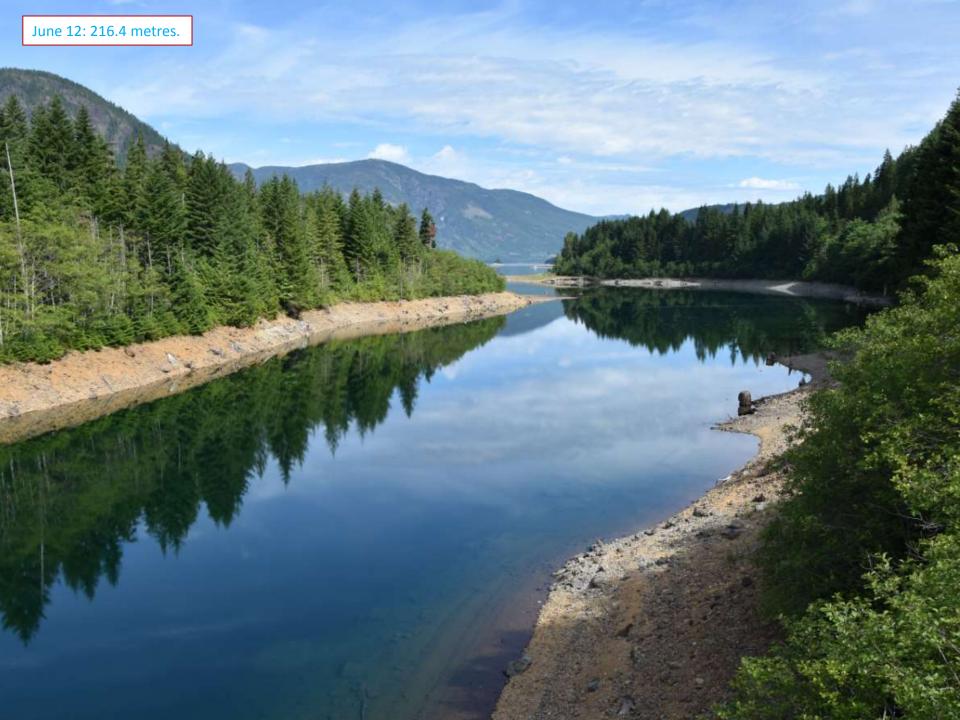


Campbell River System: Buttle Boat Ramp, Buttle Narrows -Area Between Buttle Lake And Upper Campbell Reservoir, Upper Campbell Reservoir Recreation Area (PUMA) And Strathcona Dam

Low water level to full pool photo time lapse – March to June 2019











Campbell River Operations

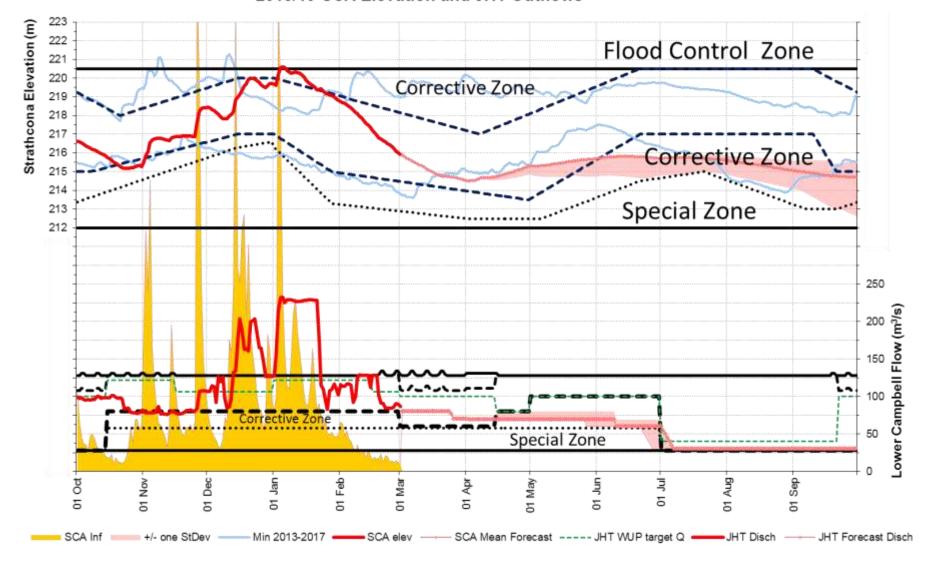
Zoom in to early spring

- 1. WUP for fish
- 2. WUP BCH's discretion
- 3. get a variance



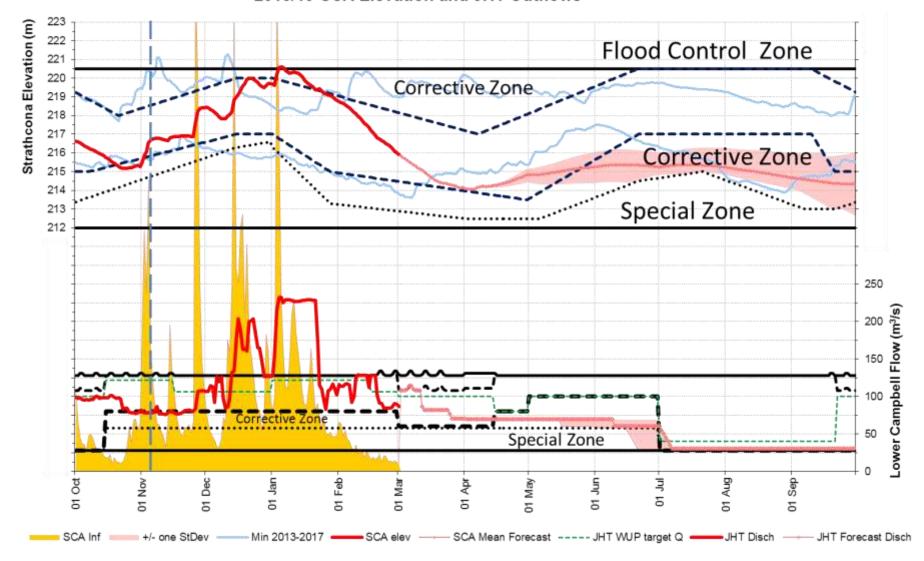
Early Spring forecast, WUP-fish operation

2018/19 SCA Elevation and JHT Outflows





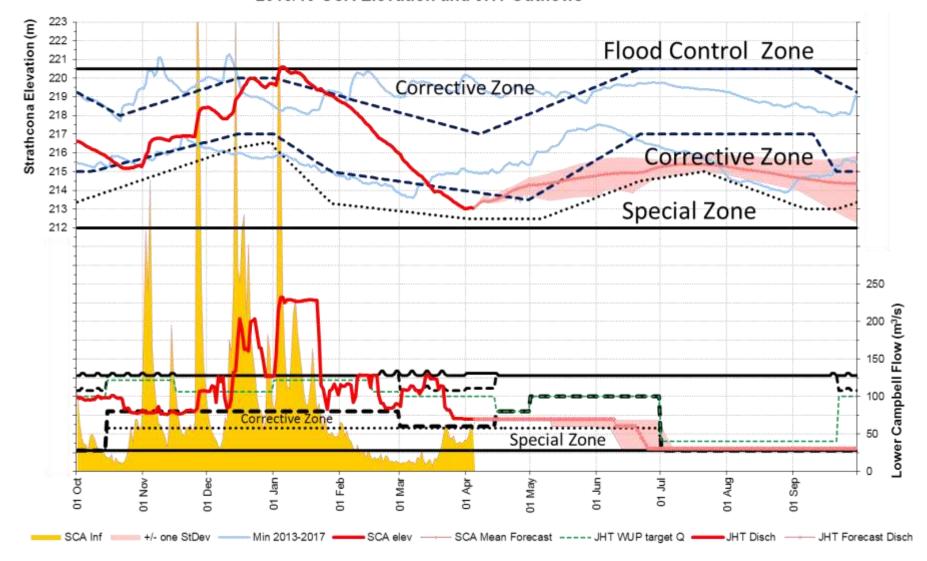
Early Spring forecast, WUP-discretionary 2018/19 SCA Elevation and JHT Outflows





Early Spring forecast, variance operation

2018/19 SCA Elevation and JHT Outflows





Campbell River Operations

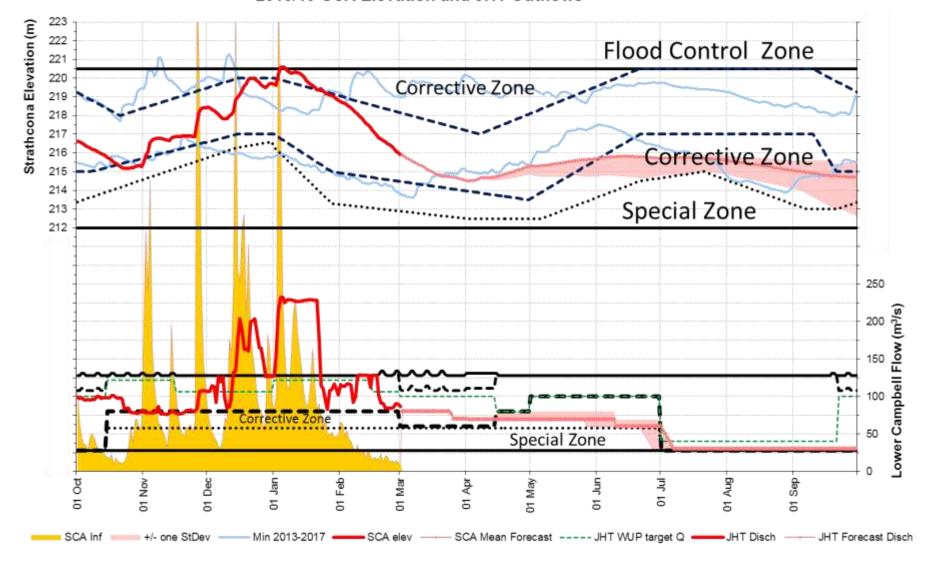
Zoom in to late spring

- 1. WUP for fish early forecast
- 2. WUP for fish, actual freshet
- 3. variance operations



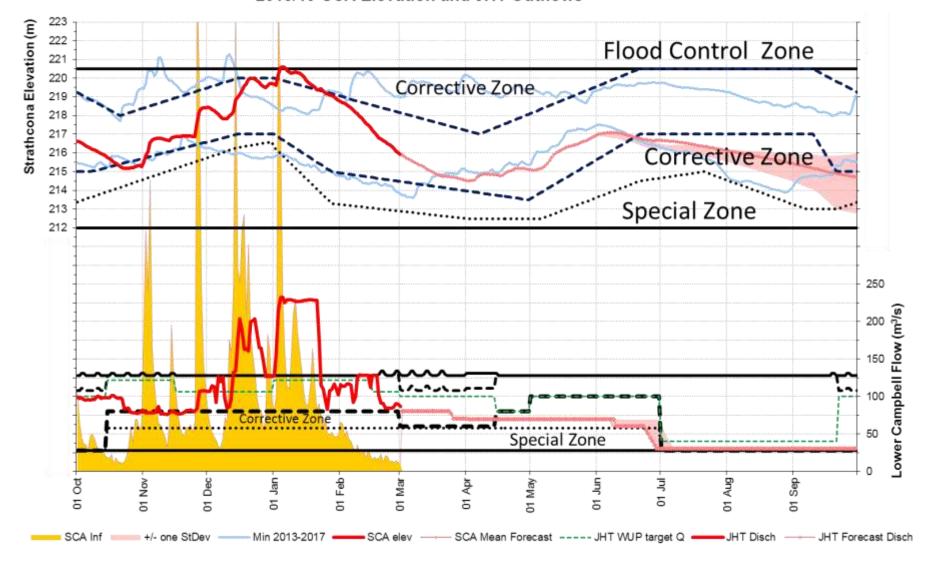
Early Spring forecast, WUP-fish operation

2018/19 SCA Elevation and JHT Outflows





Late Spring forecast, WUP-fish operation 2018/19 SCA Elevation and JHT Outflows





Late Spring forecast, variance operation

2018/19 SCA Elevation and JHT Outflows

