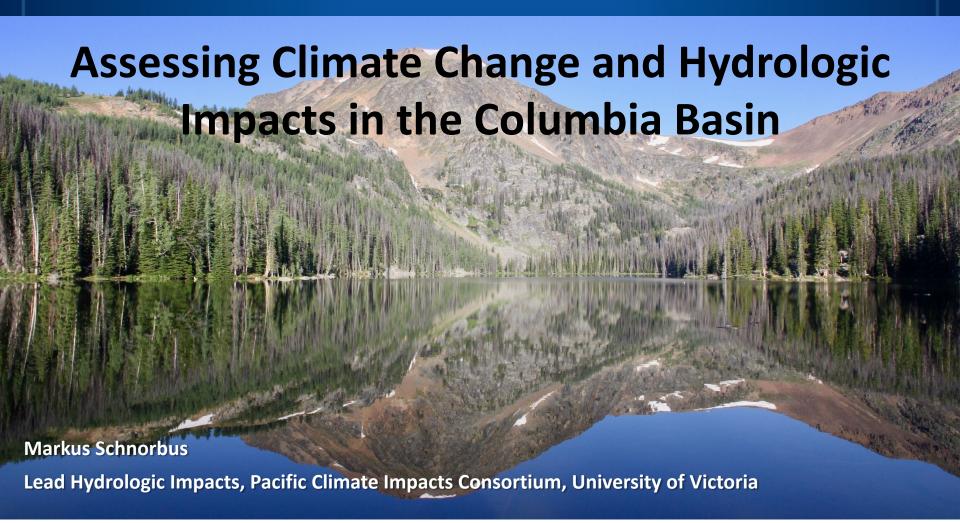
Presentation to the Columbia Basin Regional Advisory Committee April 21, 2021







Outline

Scenarios		

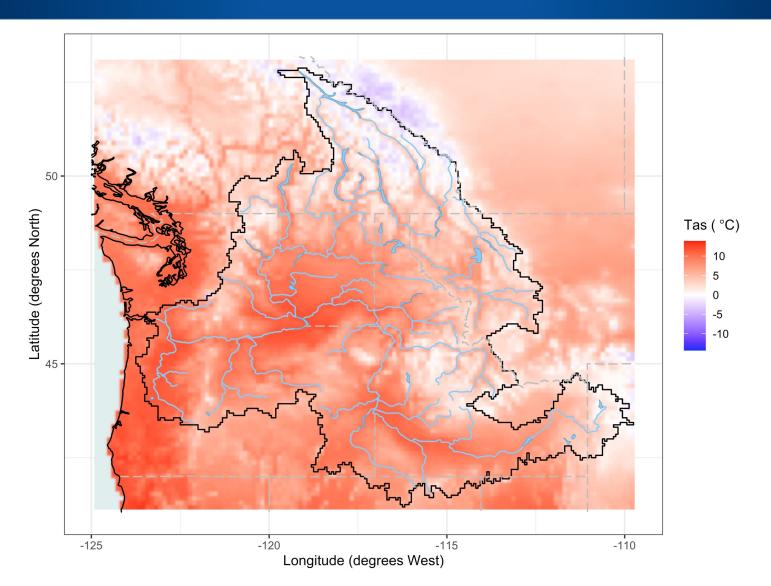
Study Area Physiography

Columbia River Basin



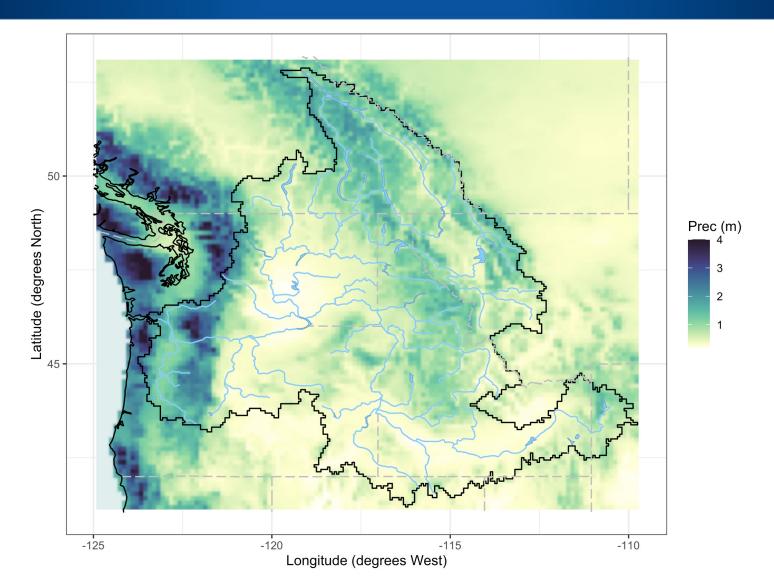
Study Area Climate

Mean Daily Temperature, 1971 to 2000



Study Area Climate

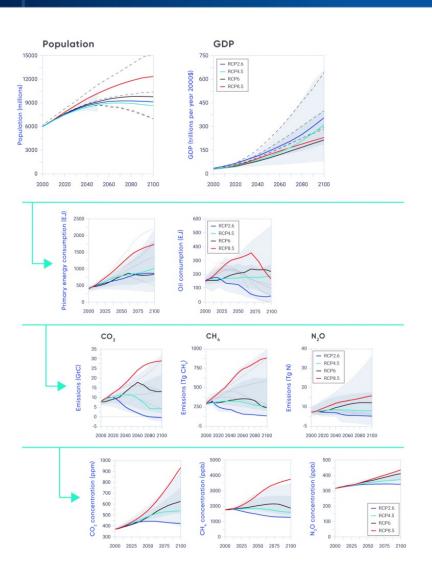
Mean Annual Precipitation Totals, 1971 to 2000

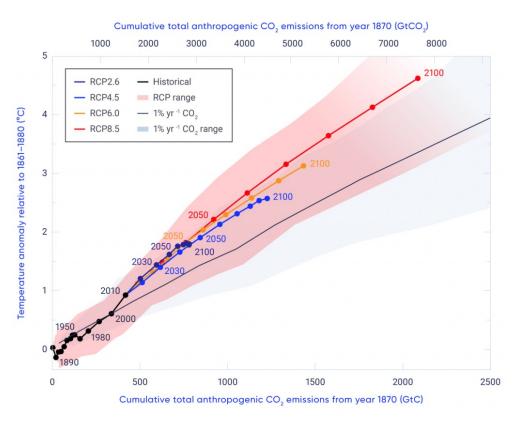




Methods and Tools

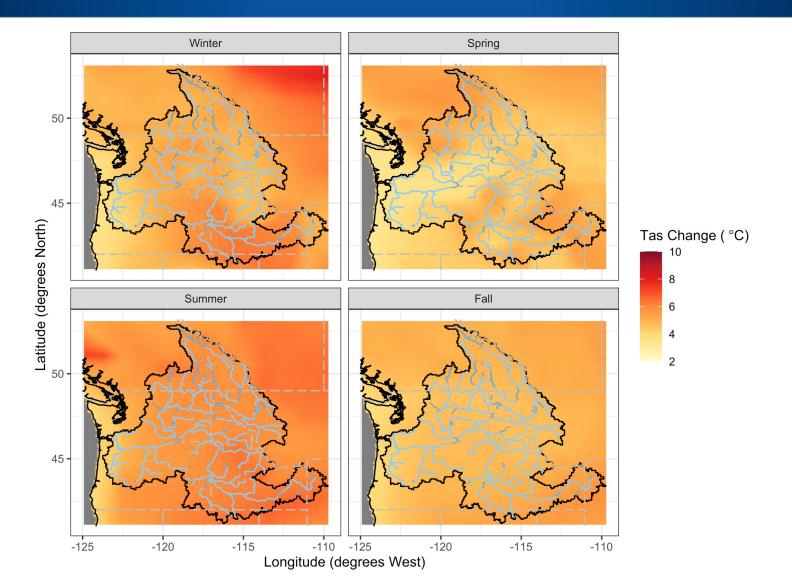
Emissions Scenarios - Representative Concentration Pathways



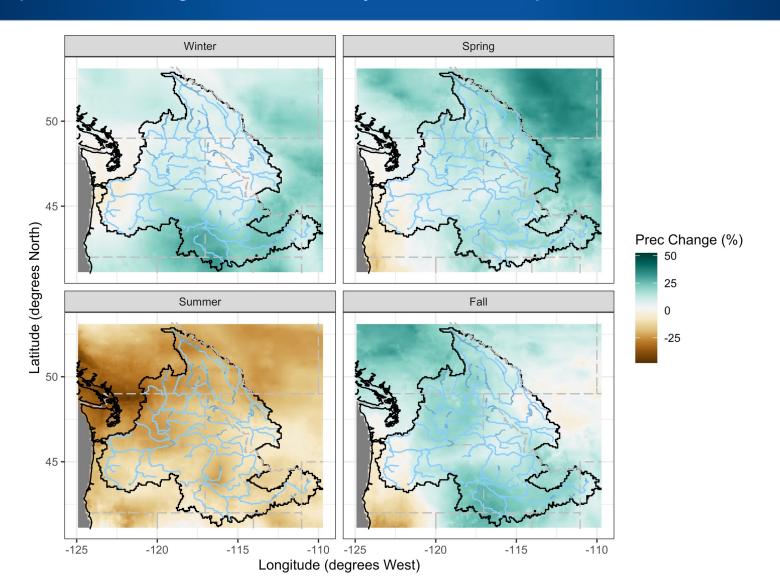




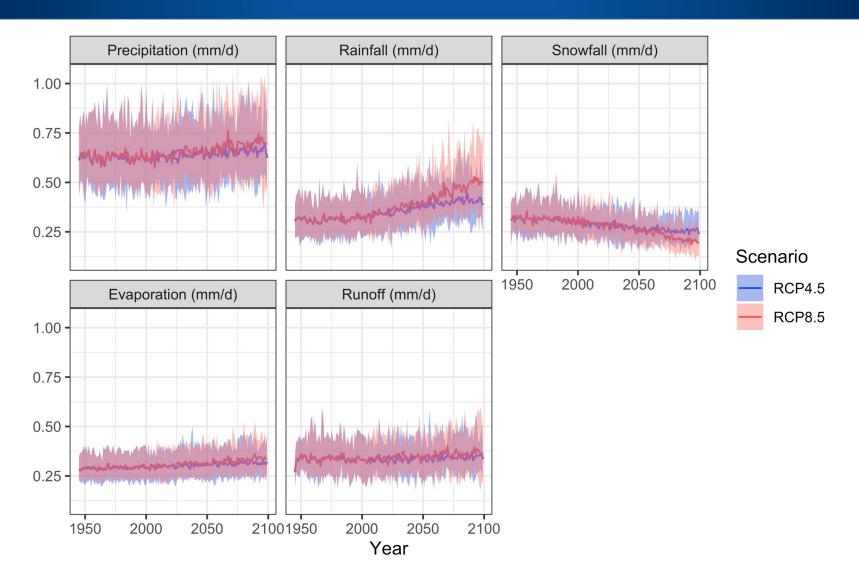
Temperature Change – end-century RCP8.5 compared to 1971-2000



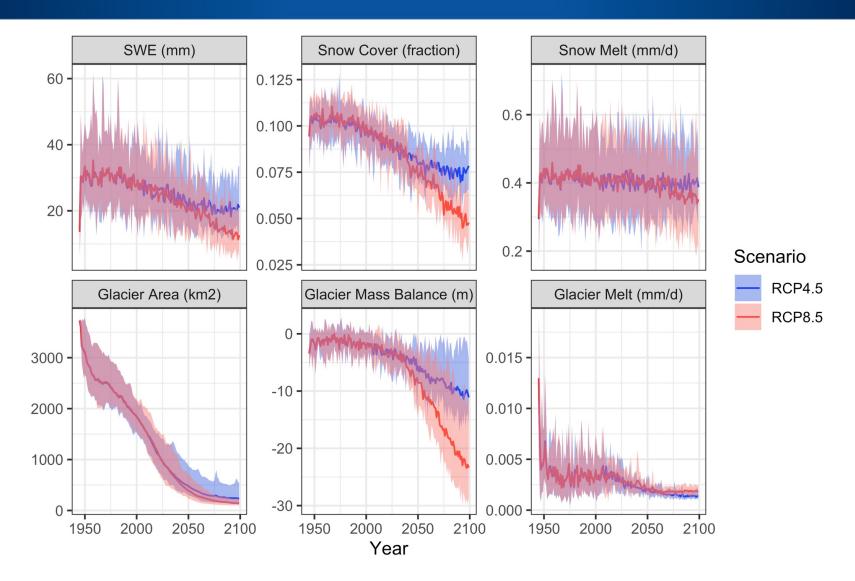
Precipitation Change – end-century RCP8.5 compared to 1971-2000



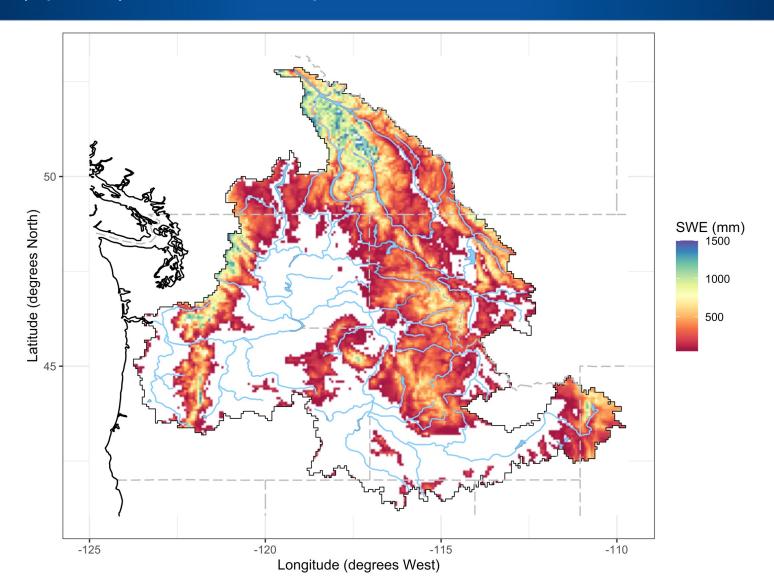
Changes in Annual Water Balance



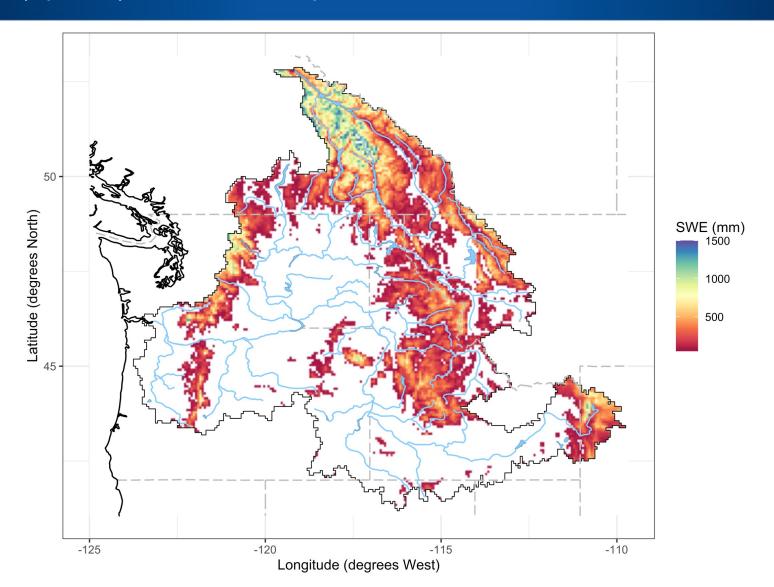
Changes in Cryosphere



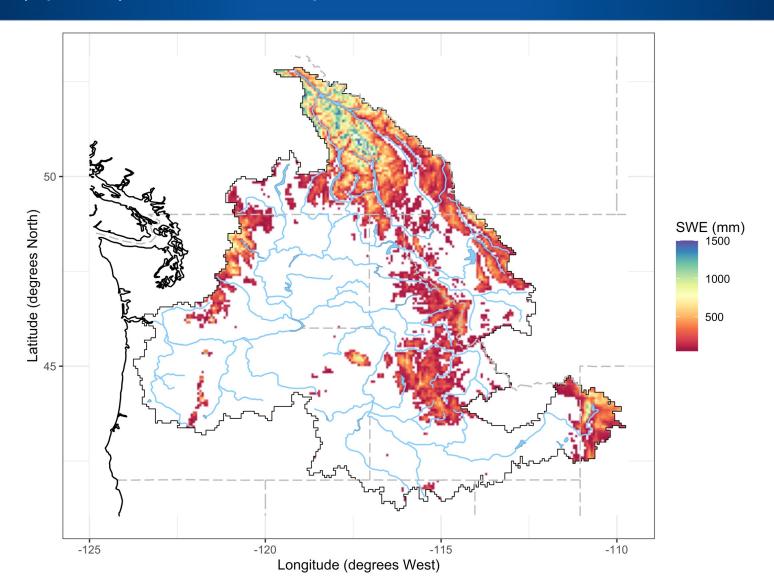
Peak (April 1st) Snow Water Equivalent, 1971-2000 Ensemble Mean



Peak (April 1st) Snow Water Equivalent, 2041-2070 Ensemble Mean

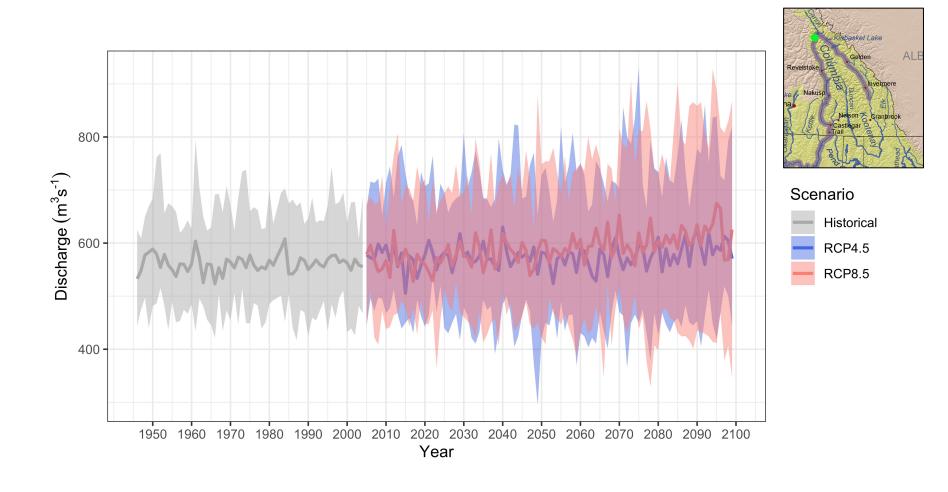


Peak (April 1st) Snow Water Equivalent, 2071-2100 Ensemble Mean



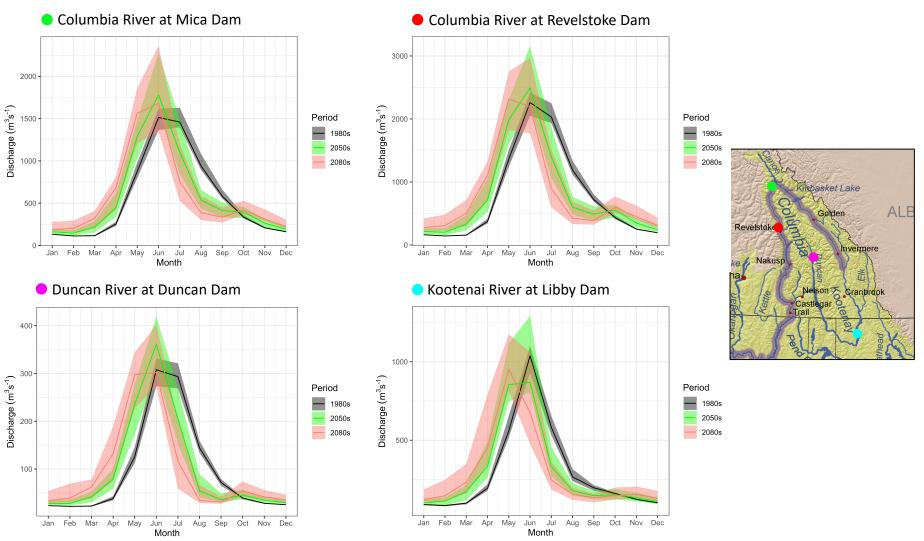
Changing Hydrology

Columbia River at Mica Dam: Annual Mean Inflow



Changing Hydrology

Mean Monthly Reservoir Inflow, RCP8.5



Changing Hydrology

Cumulative Departure from the Mean – Mica Dam Annual Inflow

