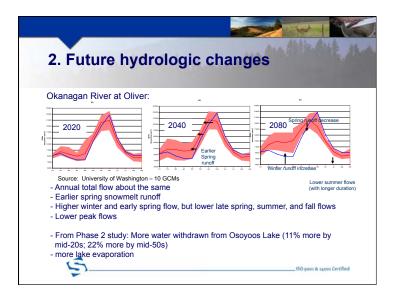
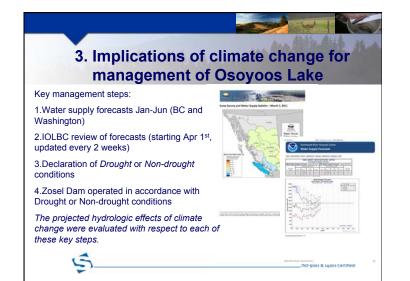


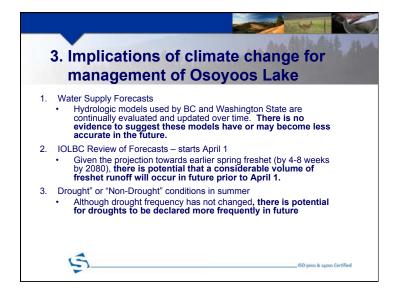


		And Aller and a
2 FI	iture ch	anges to climate and hydrology
	Climate Researcher	Title and Affiliation
	A.01. 34	
	Alila, Younes	Associate Professor, University of British Columbia
	Allen, Diana	Professor, Simon Fraser University
	Cannon, Alex	Senior Hydroclimatologist, Environment Canada; Adjunct Professor UBC
xperts	Cohen, Stewart	Research Scientist, Adaptation & Impacts Research Division Section (AIRS), Environment
onsulted		Canada, and Adjunct Professor, Department of Forest Resources Management, University of British Columbia
Jilouneu	Coulson, Hal	Engineer (retired), B.C. Ministry of Environment, Lands and Parks
	Fabro, Andrew	Librarian, Environment Canada
	Gobena, Adam	Statistical Hydrologist, BC Hydro
	Hamlet, Alan	Research Assistant and Professor, University of Washington
	Hyatt, Kim	Research Scientist, Fisheries and Oceans Canada
	Lall, Upmanu	Senior Research Scientist and Professor, Columbia University
	Long, Karilyn	Fisheries Biologist, Okanagan Nation Alliance
	Millar, Daniel	Senior Advisor, Water Issues, Environment Canada
	Murdoch, Trevor	Climate Scientist, Pacific Climate Impacts Consortium, University of Victoria
	Nielsen, Denise	Research Scientist, Agriculture and Agri-Foods Canada
	Pike, Robin	Watershed Research Hydrologist, B.C. Ministry of Forests, Mines and Lands
	Redding, Todd	College Professor, Department of Geography & Earth and Environmental Science, Okanagan College, Penticton
	Schnorbus, Markus	Lead Hydrologist, Pacific Climate Impacts Consortium, University of Victoria
	Scott, David	Associate Professor, University of British Columbia Okanagan
	Tansey, James	Associate Professor, University of British Columbia
	Weber, Frank	Hydrologist, Team Lead, Runoff Forecasting, BC Hydro
	Whitfield, Paul H.	Emeritus Scientist, Environment Canada
	Winkler, Rita	Research Hydrologist, B.C. Ministry of Forests, Mines and Lands.

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2. Fu	ture o	climat	e chan	ges			
Projected <u>climate</u> change for South Okanagan - Similkameen	Climate	Time of	Projected Change (from 1961-1990 baseline)				
	Variable	Year	2020s	2050s	2080s		
	Mean Air Temp. (°C)	Annual	+1.1ºC	+1.9°C	+3.0°C		
	Precip.	Annual Summer Winter	+4% -9% +2%	+6% -14% +6%	+8% -16% +10%		
	Snow depth	Winter Spring	-6% -33%	-14% -57%	-22% -78%		
Source:	GDD	Annual	+175	+379	+571		
University of Victoria PCIC Plan2Adapt Tool – 15 GCMs	FFD	Annuai	+15	+26	+39		
15					0 9001 & 14001 Certified		







management of Osoyoos Lake					
Parameter	2020	2040	2080		
Similkameen River Runoff (Apr 1 – Jul 31)	-1%	-3%	-7 to -16%		
Okanagan Lake Inflow (Apr 1 – Jul 31)	-3 to -4%	-5 to -6%	-10 to -15%		
Implication: • droughts may be declared mo	ore frequen	tly in future			



 Increased winter precipitation and warmer temperatures: may cause more rain and less snow resulting in increased winter runoff. This additional water may help mitigate the lower spring runoff, but only if storage is available and utilized. If winter runoff were stored, summer levels could possibly be reached earlier.

Higher water demand from Osoyoos Lake: will increase the pressure on the reduced water supply.

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