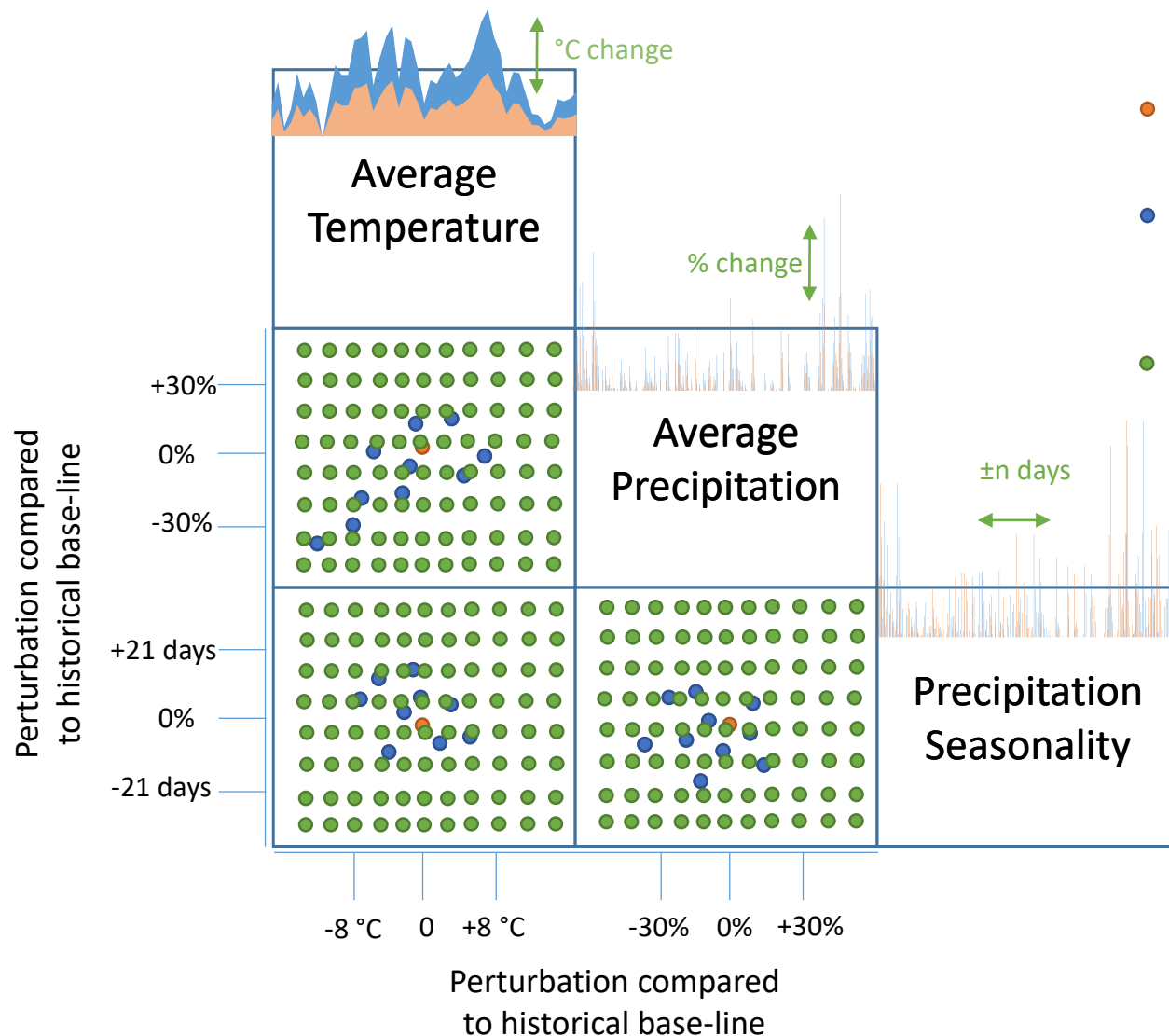


Plausible Future Scenarios



Integrated Modelling
Program for Canada
Global Water Futures



- Current State
- Climate Model Projection
- Plausible Future Scenarios

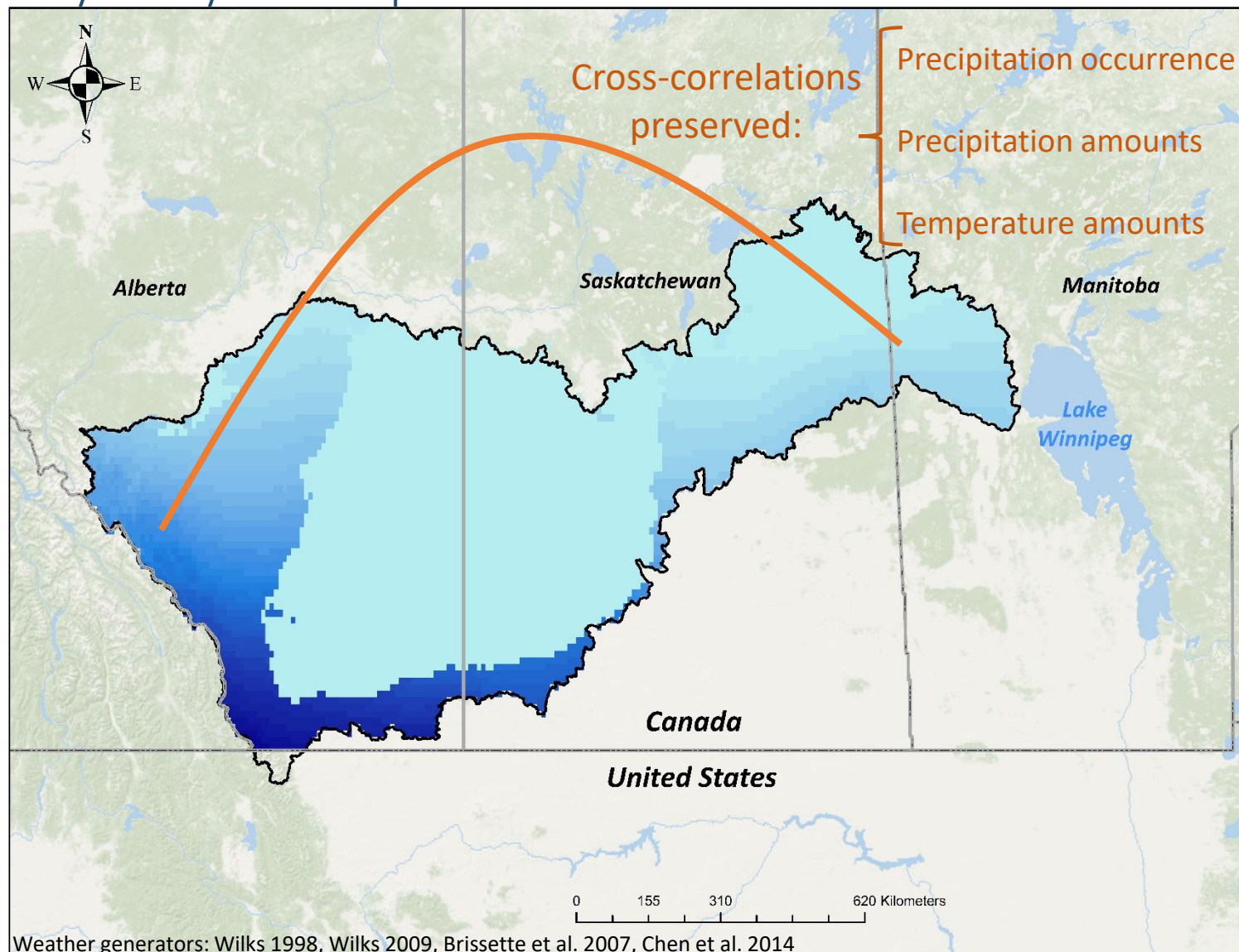
Stochastic Weather Generator



Integrated Modelling
Program for Canada

Global Water Futures

a Daily Grid-by-Grid Precipitation Generation

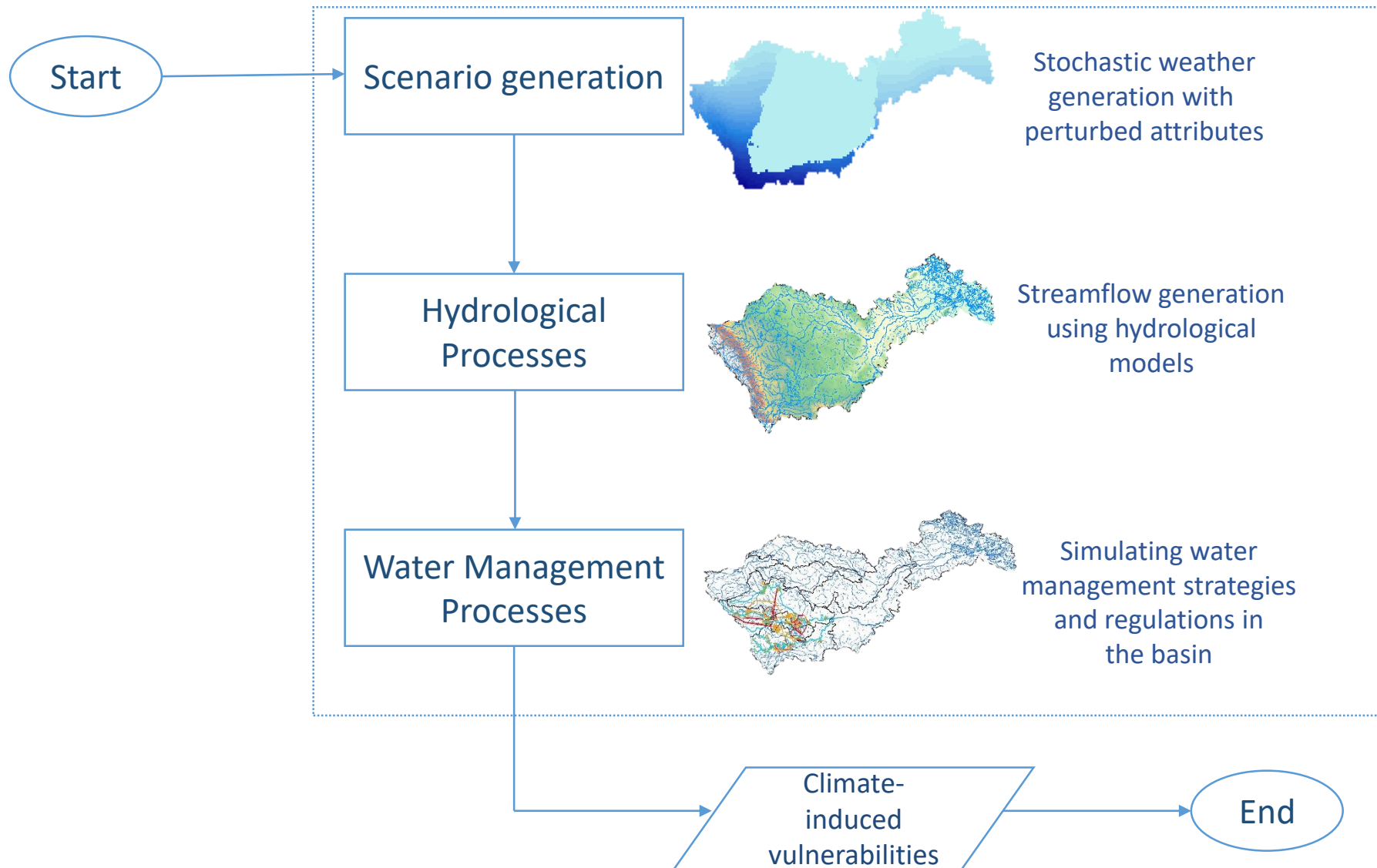


Water Resources Systems Stress-test



Integrated Modelling
Program for Canada

Global Water Futures



Preliminary Results – Scenarios



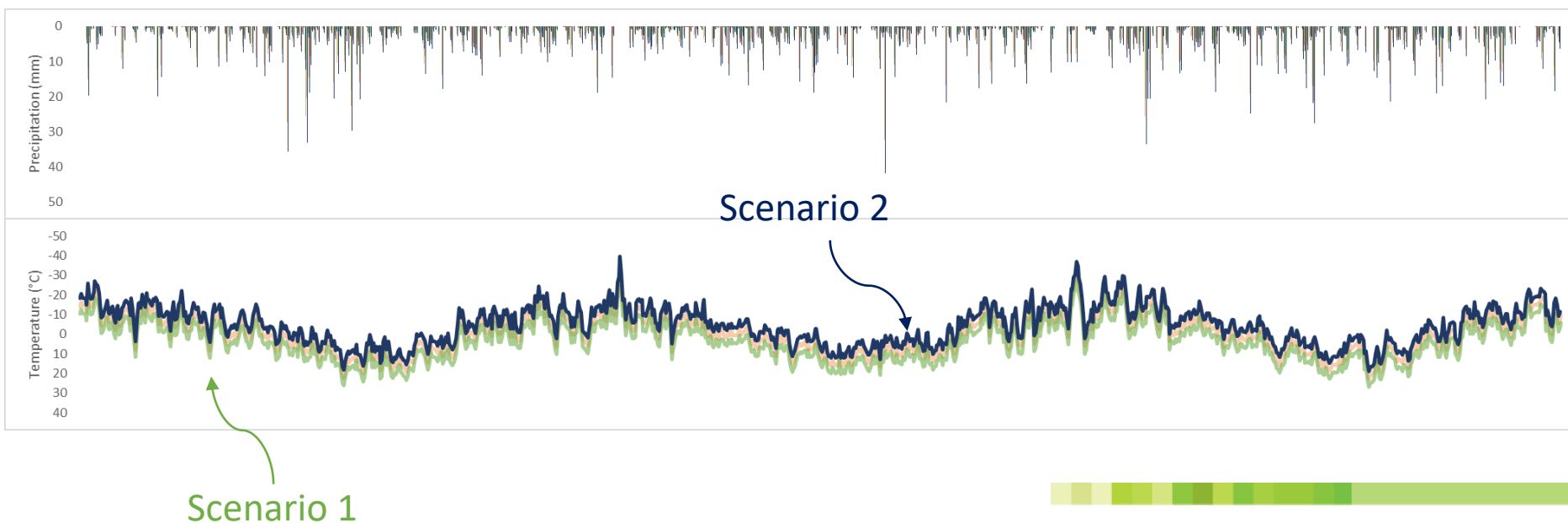
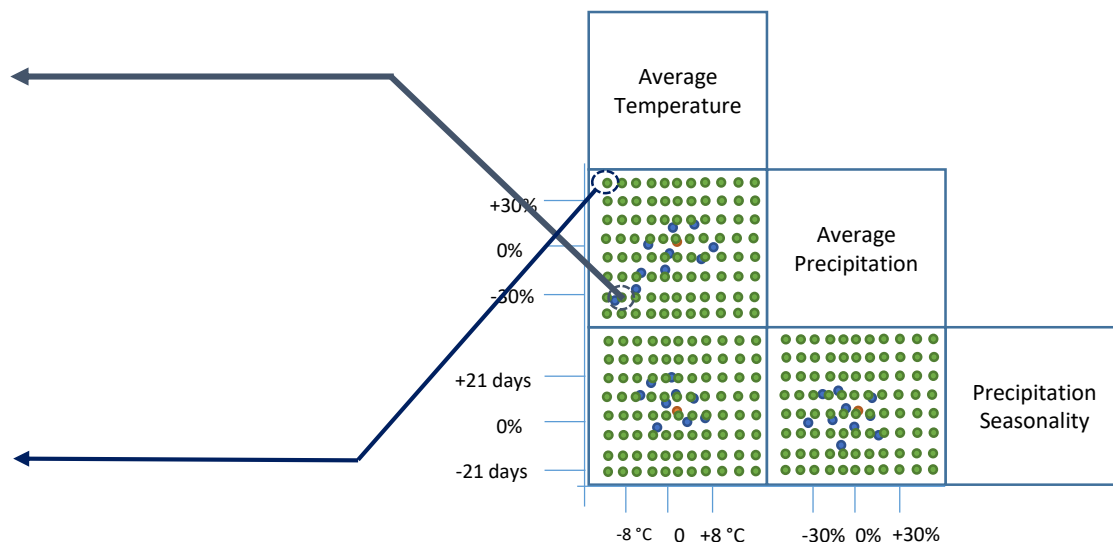
Integrated Modelling
Program for Canada
Global Water Futures

Example Scenario 1:

- * Temperature: 4 °C decrease
- * Precipitation: 20% decrease

Example Scenario 2:

- * Temperature: 4 °C increase
- * Precipitation: 30% increase

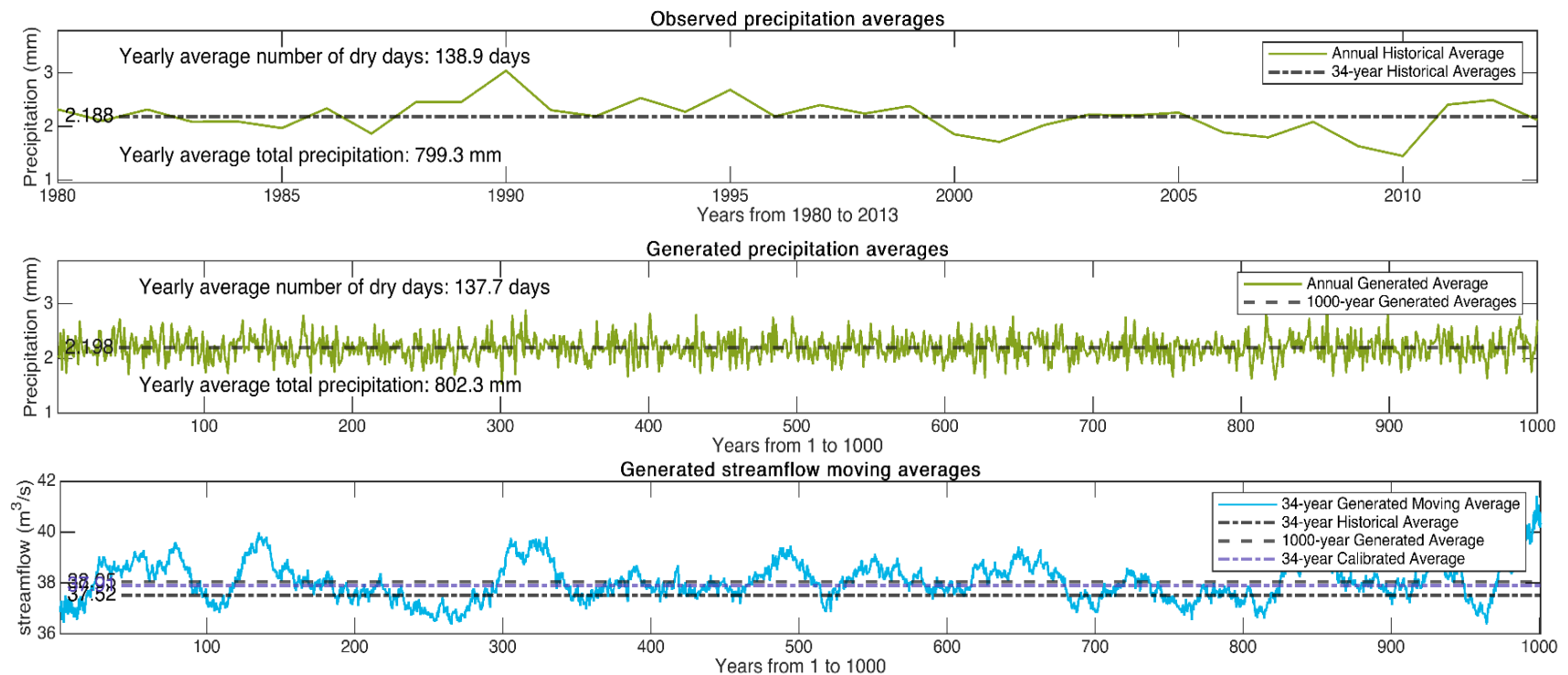


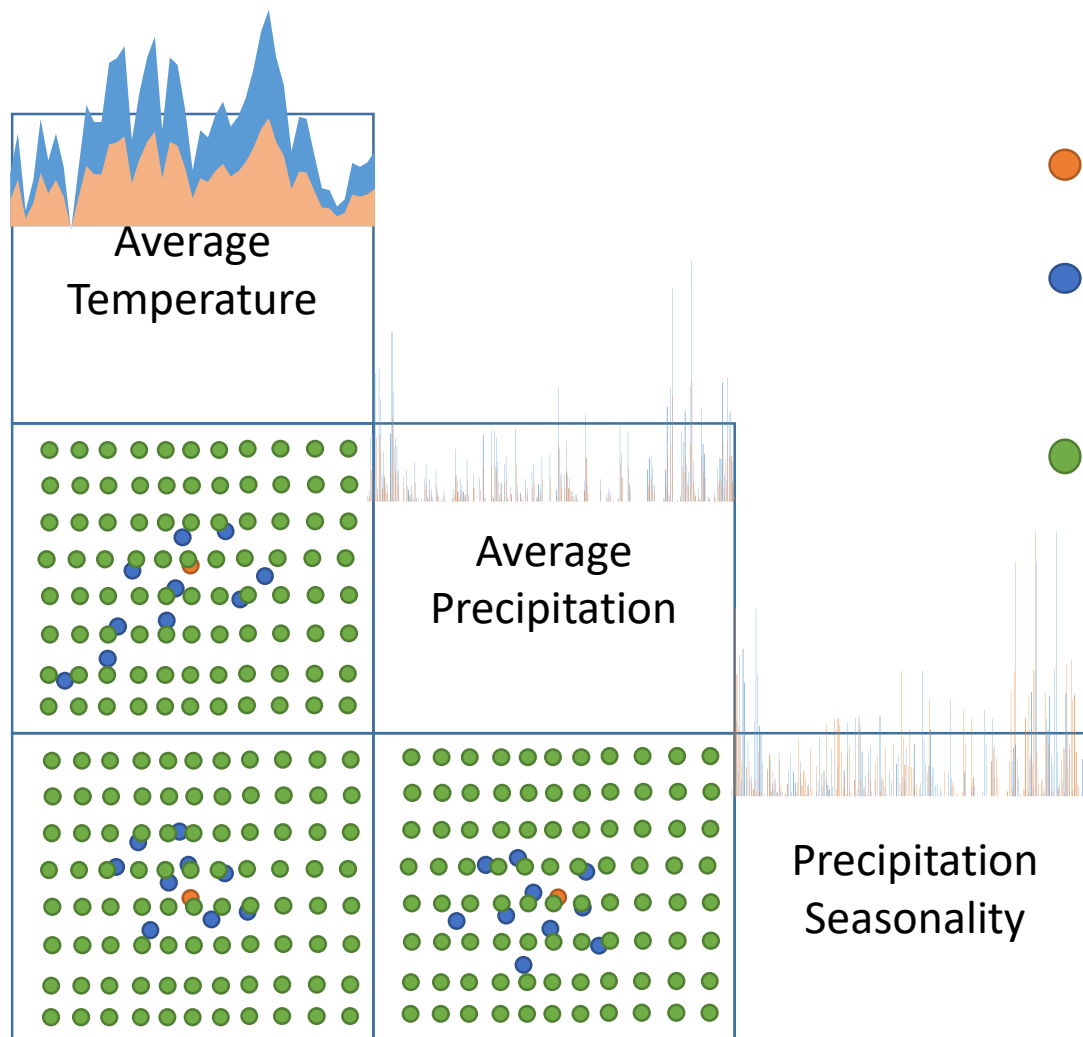
Preliminary Results - Hydrographs



Integrated Modelling
Program for Canada
Global Water Futures

Results of a 1000-year scenario for the headwaters of Bow River at Banff





- Current State
- Climate Model Projection
- Plausible Future Scenarios