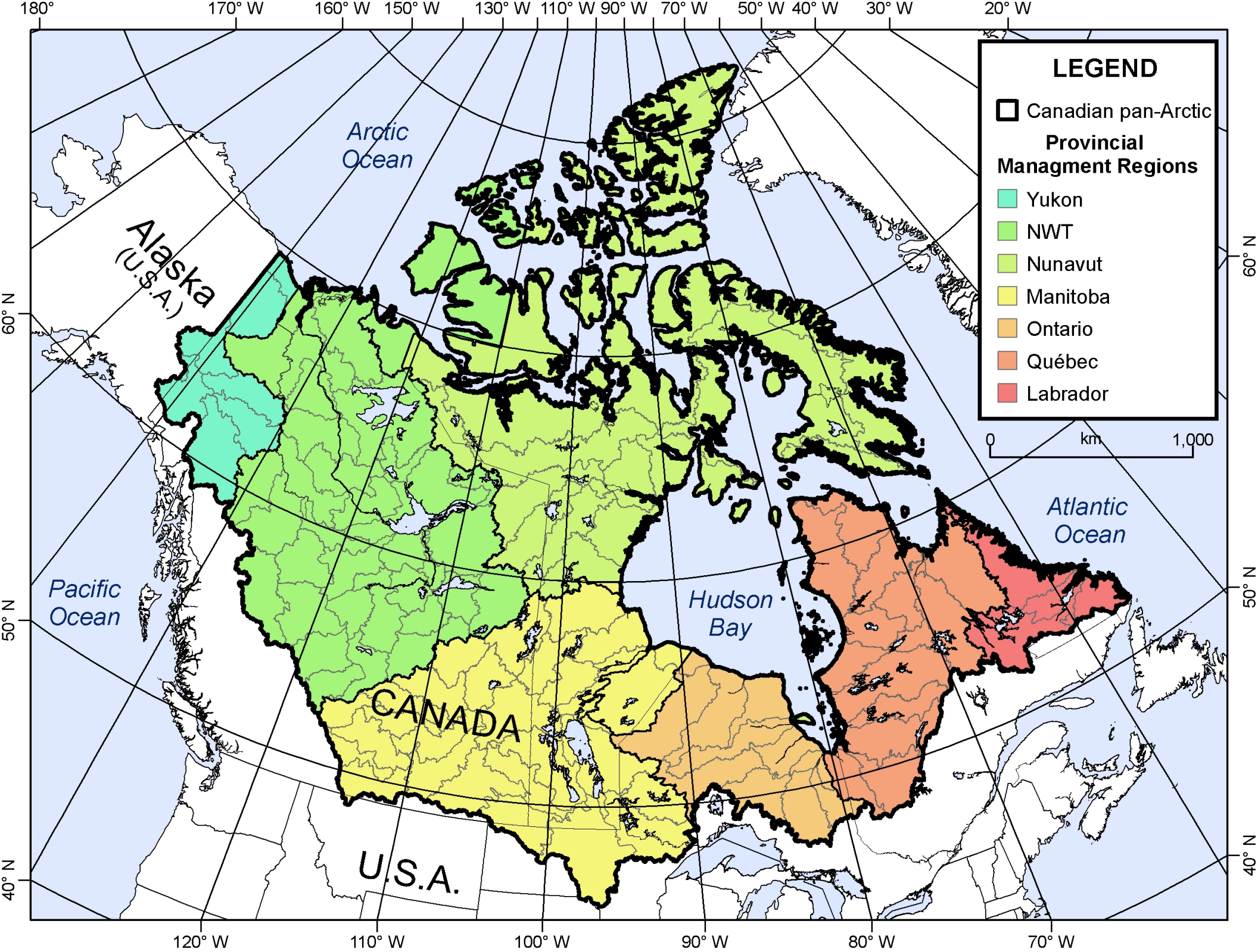


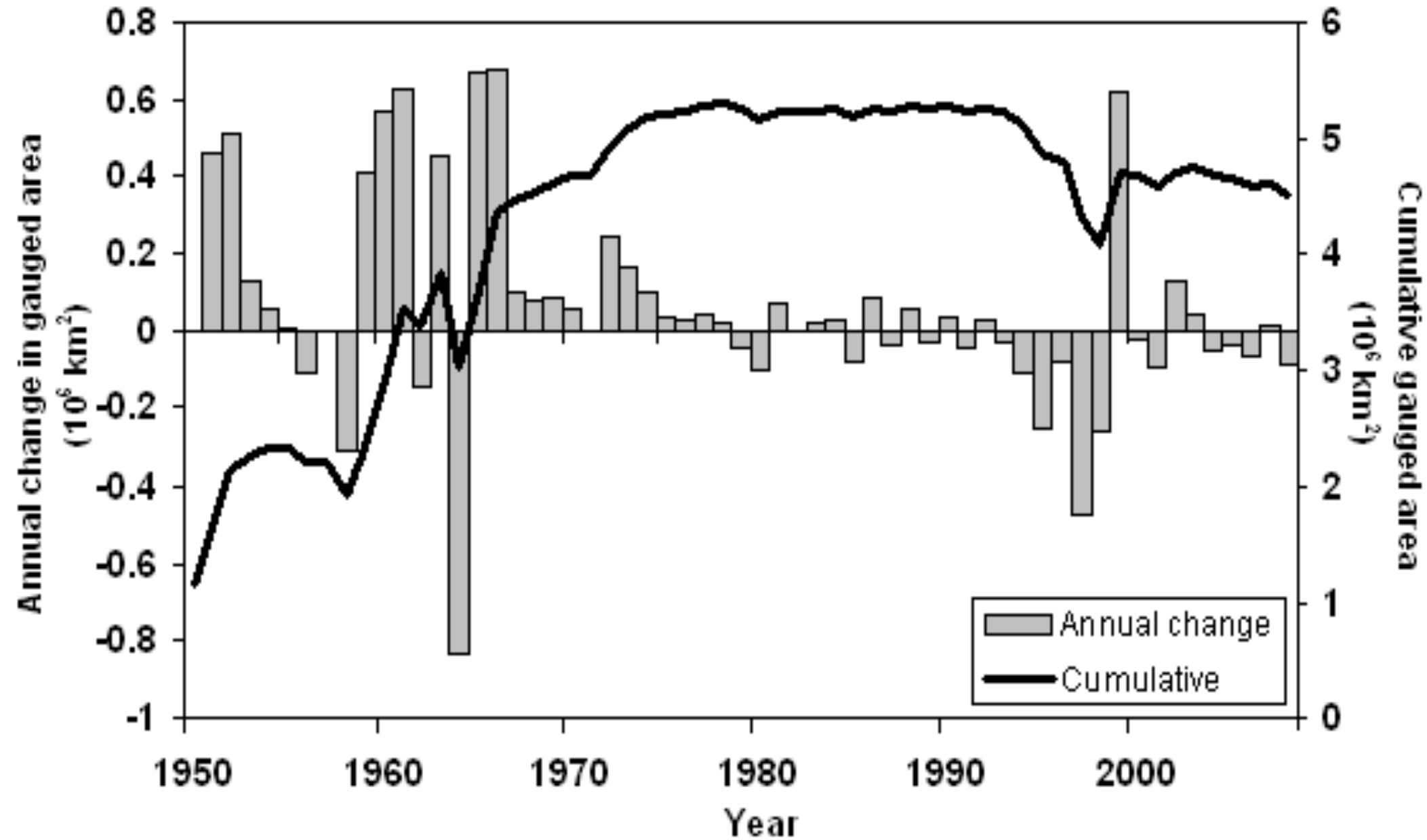
Streamflow in Northern Canada during the IPY

Stephen Déry
Marco Hernandez, Theo Mlynowski,
Jason Burford & Eric Wood

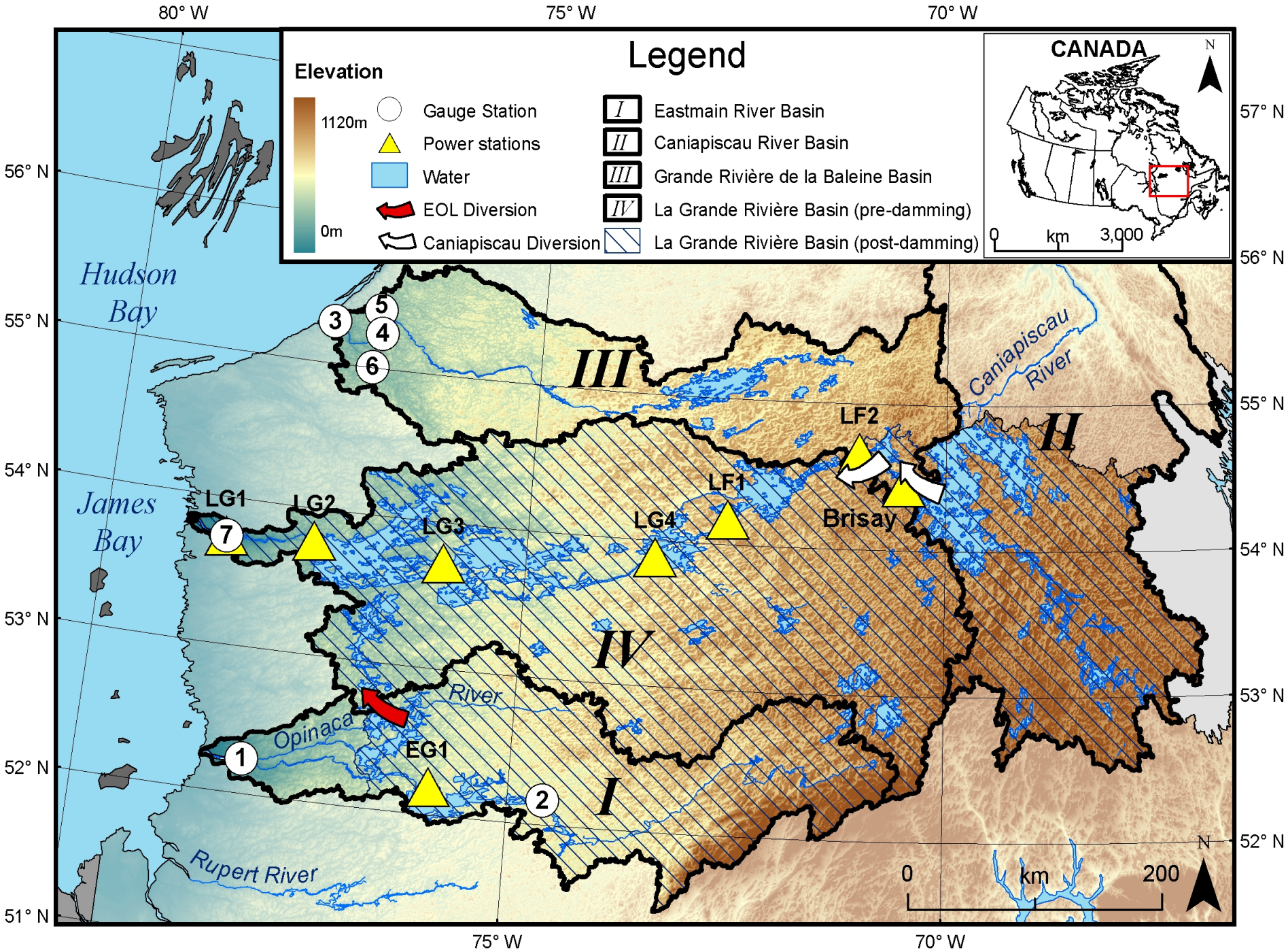


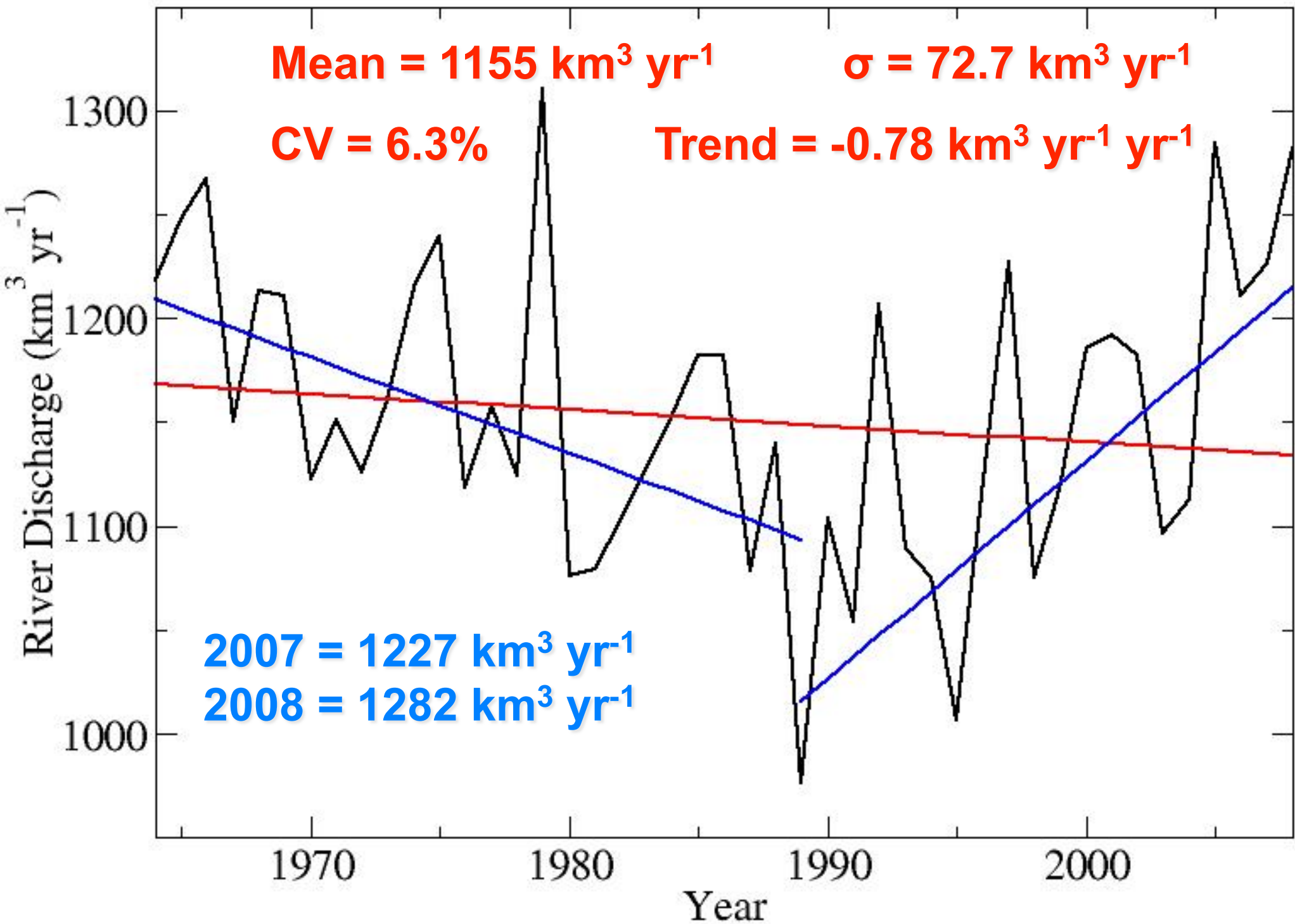


Declining gauge network



Growing anthropogenic influences

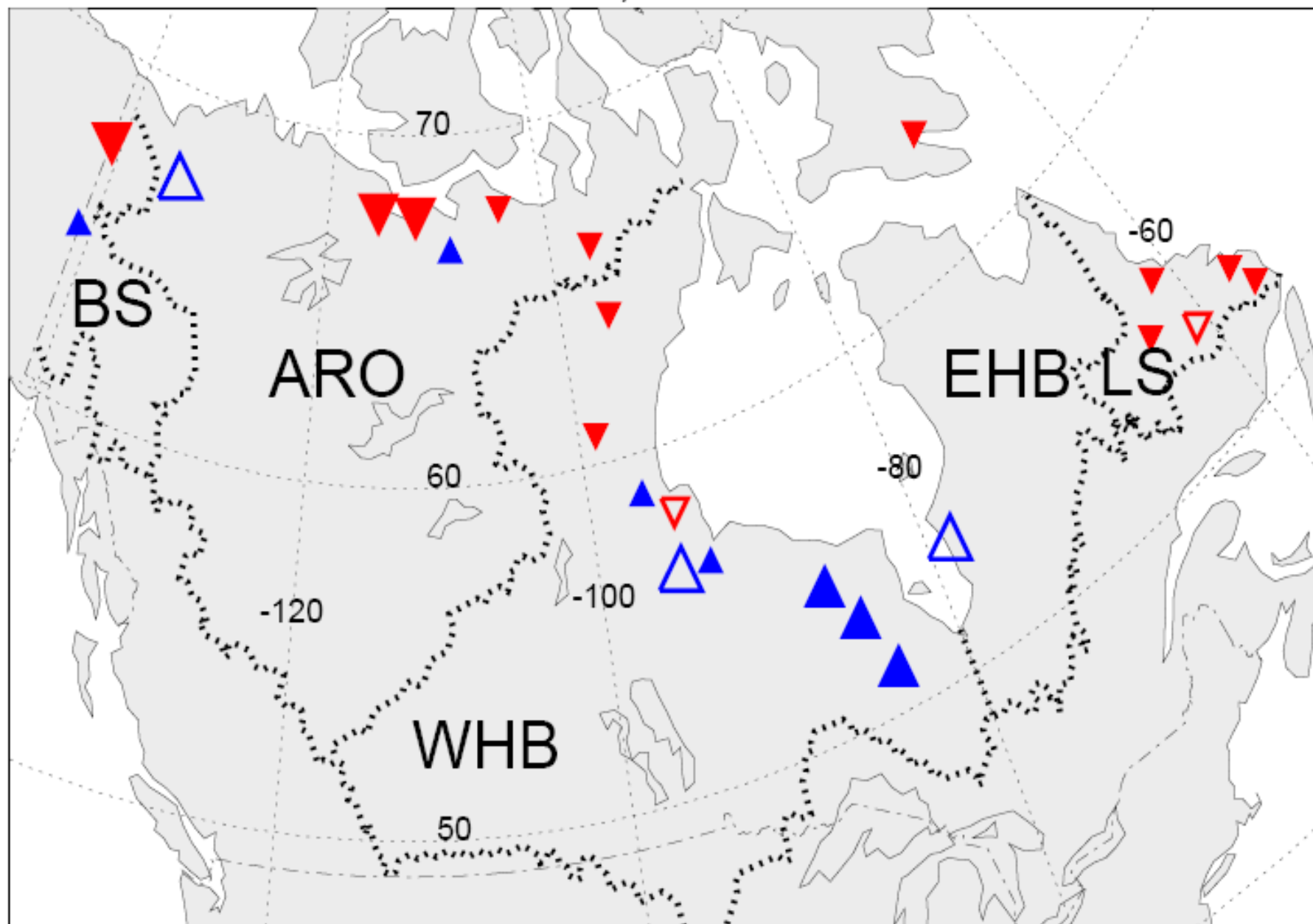




▲ $> 1\sigma$

▼ $< 1\sigma$

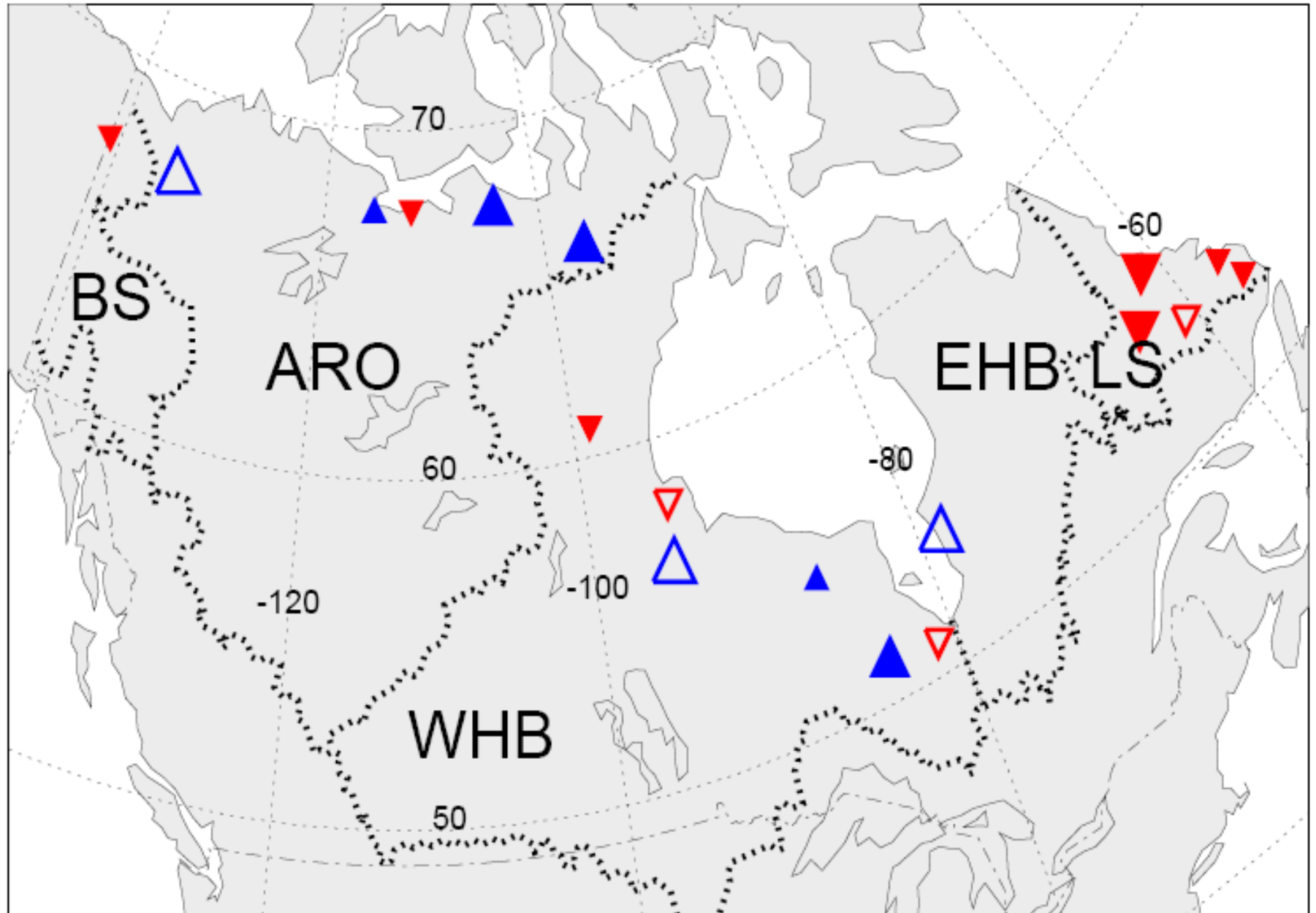
a) 2007



▲ $> 1\sigma$

▼ $< 1\sigma$

b) 2008



Summary

- Streamflow in northern Canada during the IPY was considerably above average.
- Updated data show reversal to increasing river discharge in northern Canada.
- Many studies project increasing risks of hydrological extremes, as observed in parts of northern Canada.

Future Work

- Establish seasonality of river discharge anomalies.
- Attribute factors that led to these.
- Provide an updated record of river discharge time series & trends in northern Canada to the IPY community:
<http://nhg.unbc.ca/ipy>

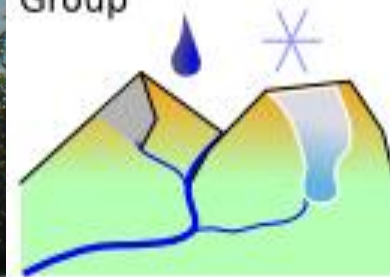
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