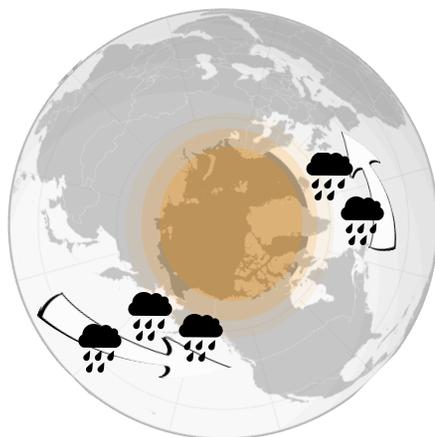
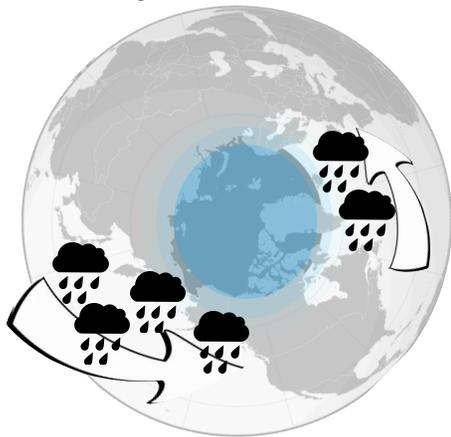


In past climate \Rightarrow In warming climate

(a)



AA \Rightarrow Weakening of storm tracks

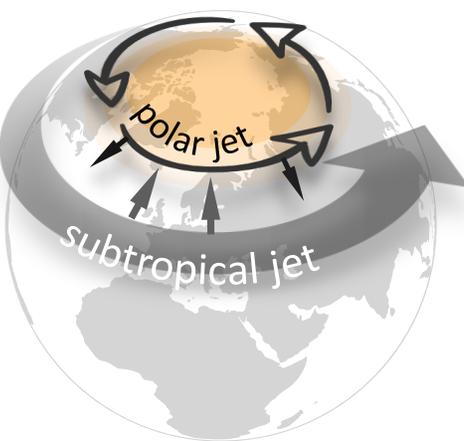
 storm systems

 relatively warm Arctic

 storm track

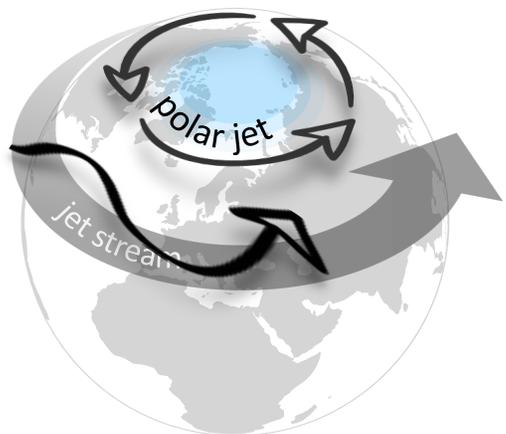
 relatively cool Arctic

(b)



AA \Rightarrow Equatorward shift of polar jet vs. poleward shift of subtropical jet

(c)



AA \Rightarrow Amplification of quasi-stationary short-wave trains



Arctic circle warming over land

Schematic representation of proposed dynamical mechanisms in summer from past to future/warming climate: (a) Weakening of storm tracks, (b) latitudinal shift in jet positions, and (c) amplification and resonance of quasi-stationary waves.