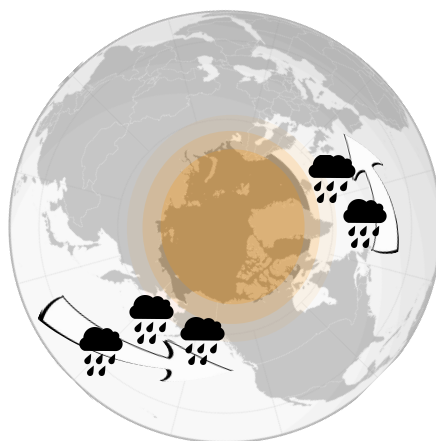
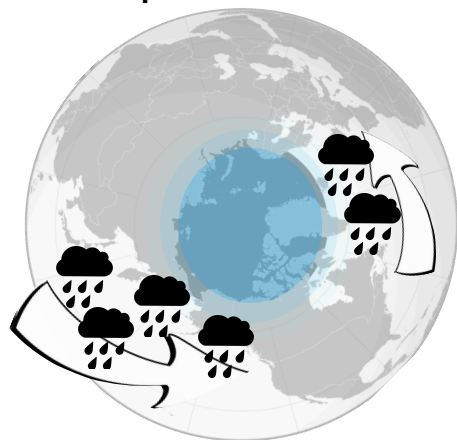


In past climate \Rightarrow In warming climate

(a)



AA \Rightarrow Weakening of storm tracks

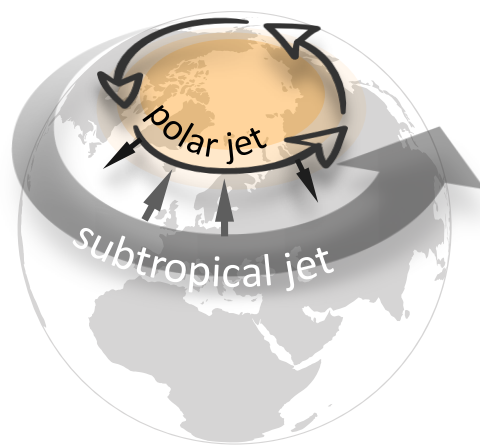
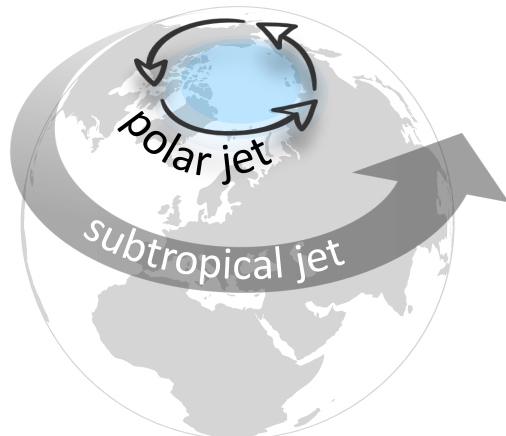
storm systems

storm track

relatively warm Arctic

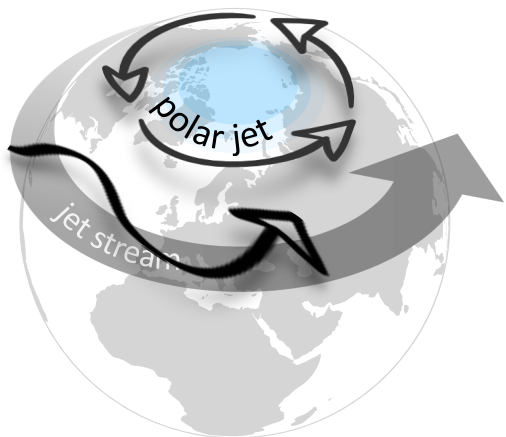
relatively cool Arctic

(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.