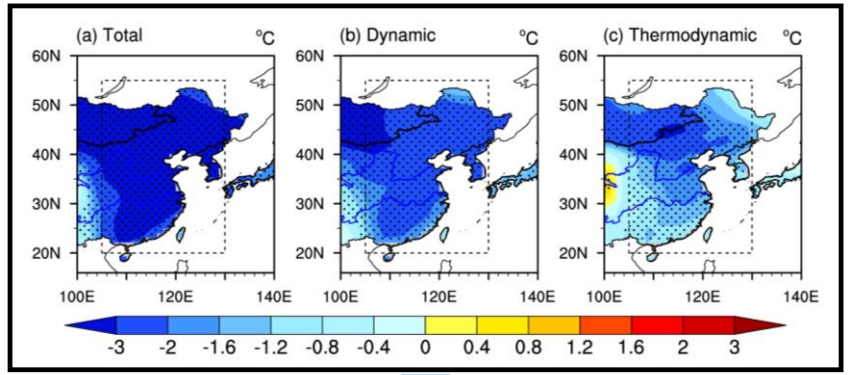
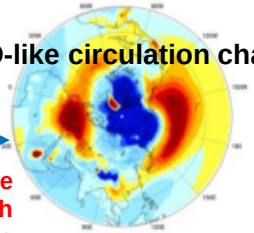
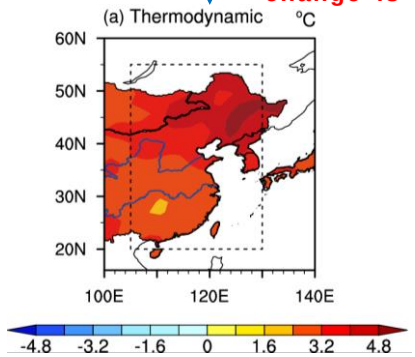
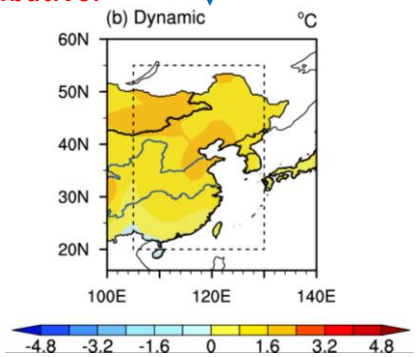
Present-day cold-month SAT anomaly is dominated by dynamic component



Global Warming

AO-like circulation change



Thermodynamic change is the main contributor to cold-month STA future change and dynamic change is also contributive.