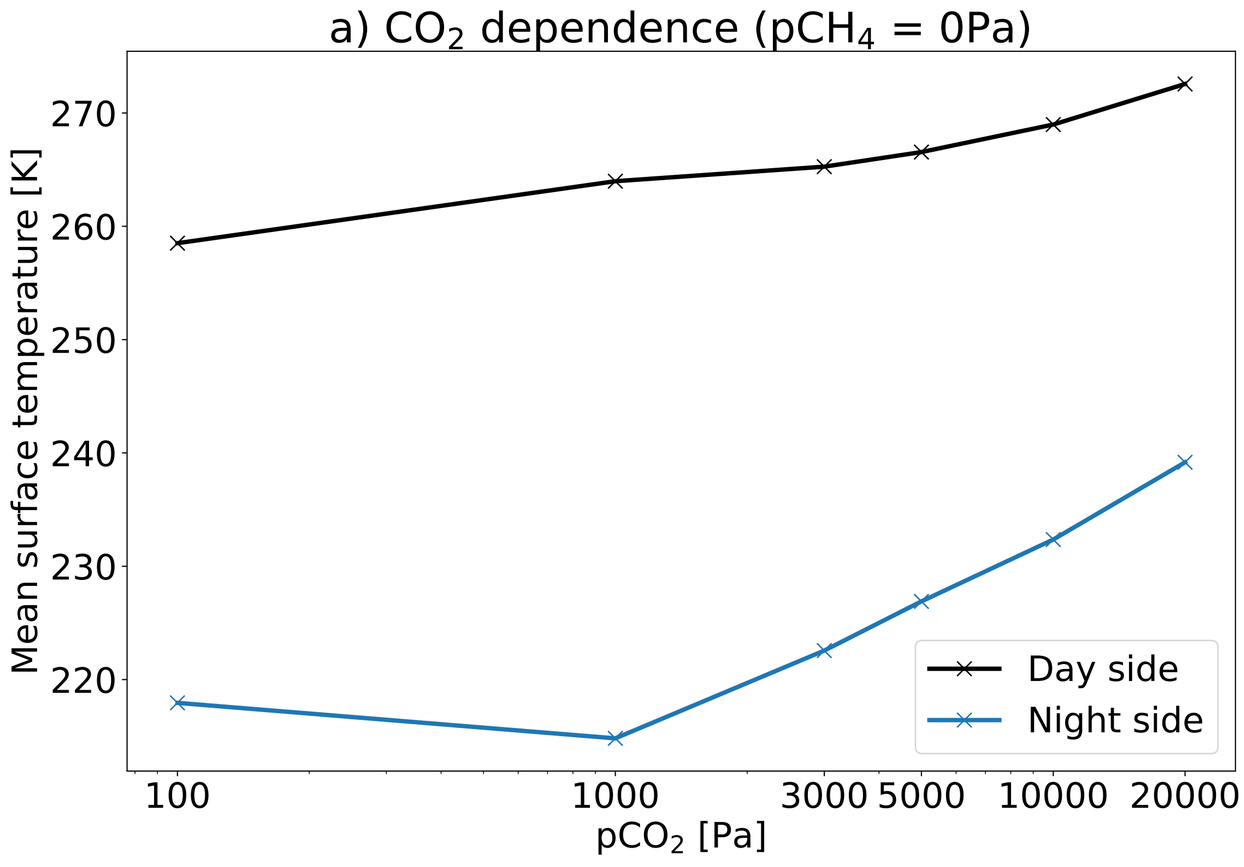
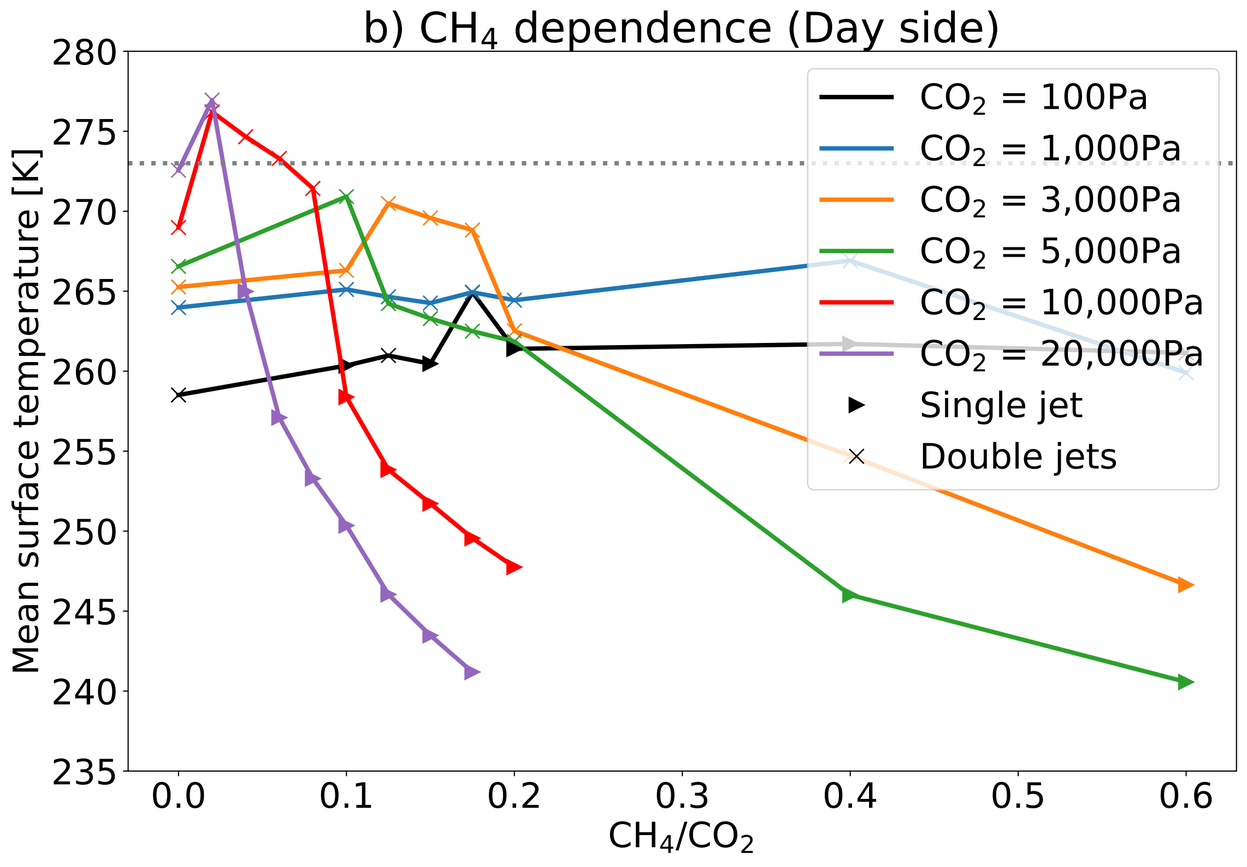
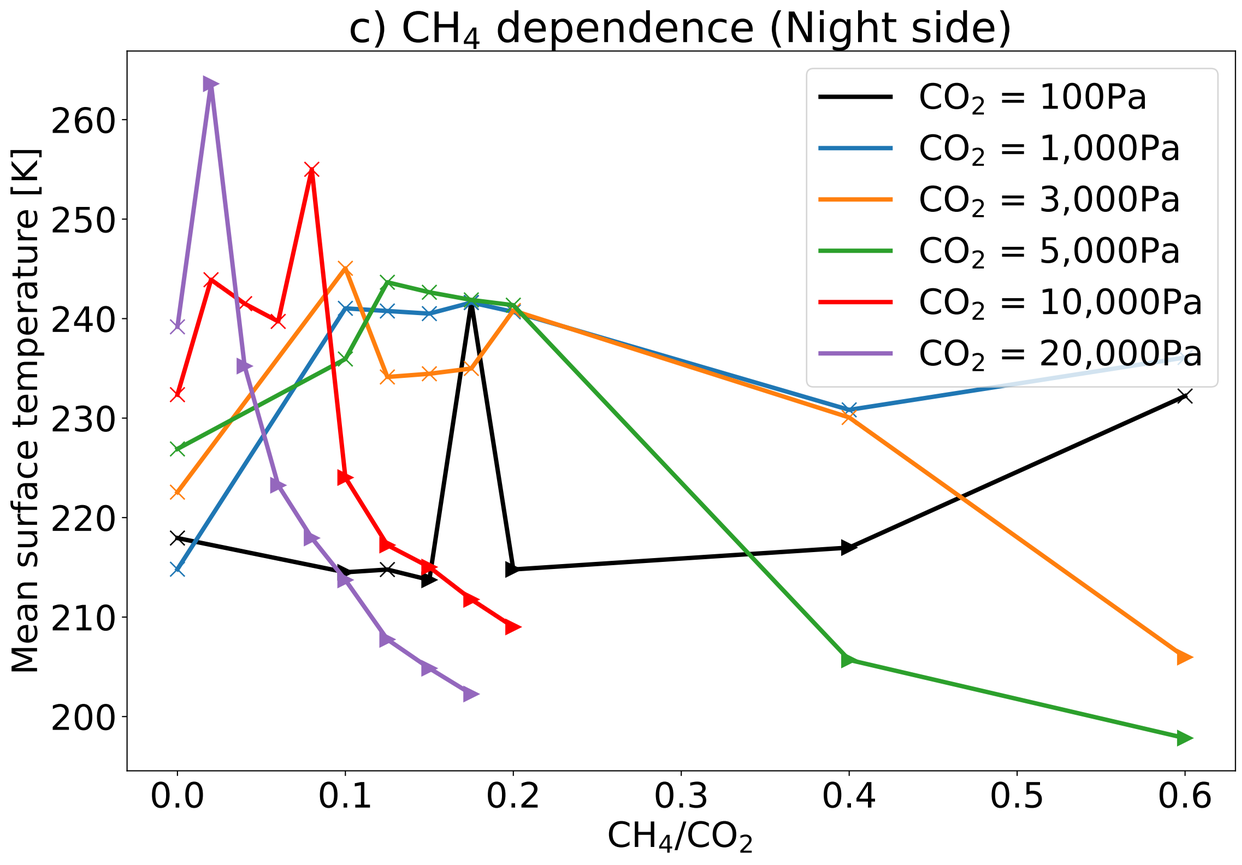
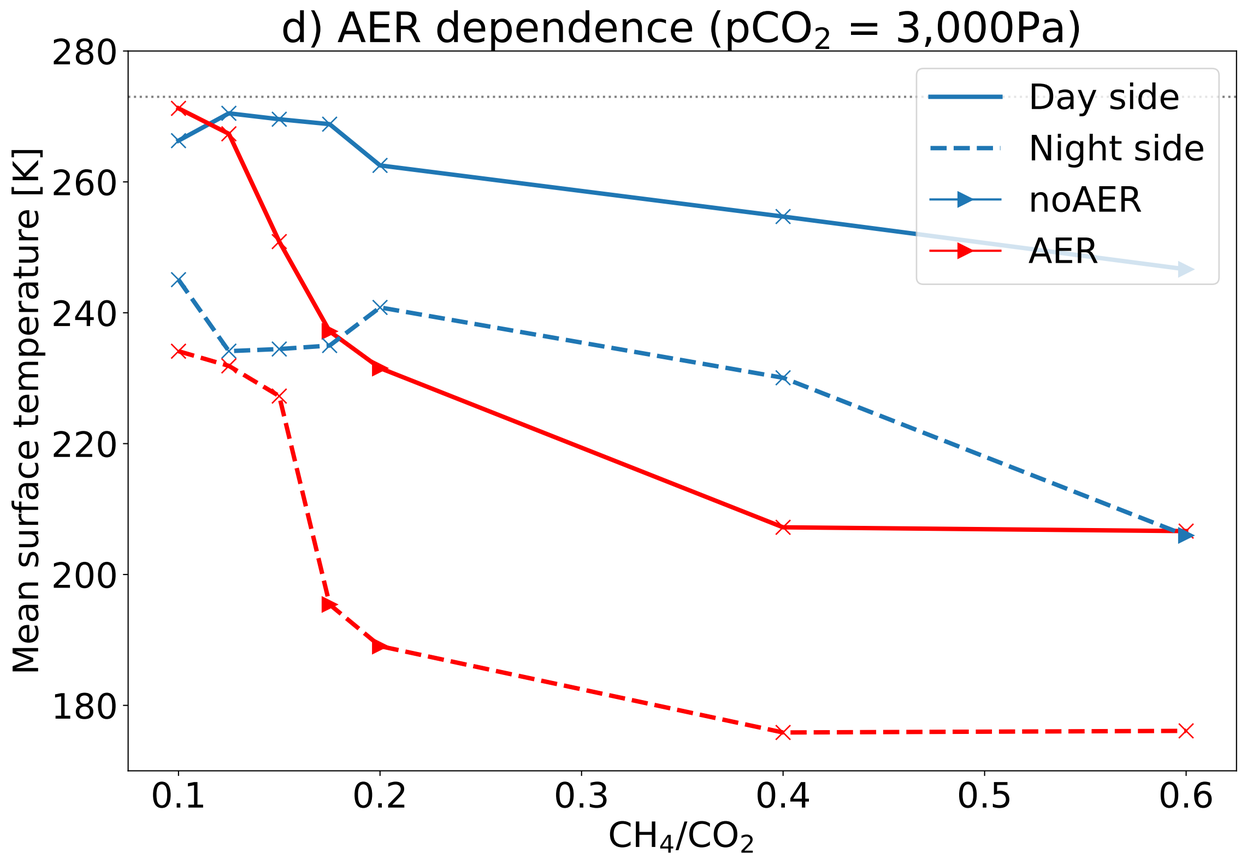

a) CO2 dependence (pCH4 = 0Pa)
Mean surface temperature [K]
pCO2 [Pa]
Day side
Night side


b) CH4 dependence (Day side)
Mean surface temperature [K]
CH4/CO2
CO2 = 100Pa
CO2 = 1,000Pa
CO2 = 3,000Pa
CO2 = 5,000Pa
CO2 = 10,000Pa
CO2 = 20,000Pa
Single jet
Double jets


c) CH4 dependence (Night side)
Mean surface temperature [K]
CH4/CO2
CO2 = 100Pa
CO2 = 1,000Pa
CO2 = 3,000Pa
CO2 = 5,000Pa
CO2 = 10,000Pa
CO2 = 20,000Pa


d) AER dependence (pCO2 = 3,000Pa)
Mean surface temperature [K]
CH4/CO2
Day side
Night side
noAER
AER