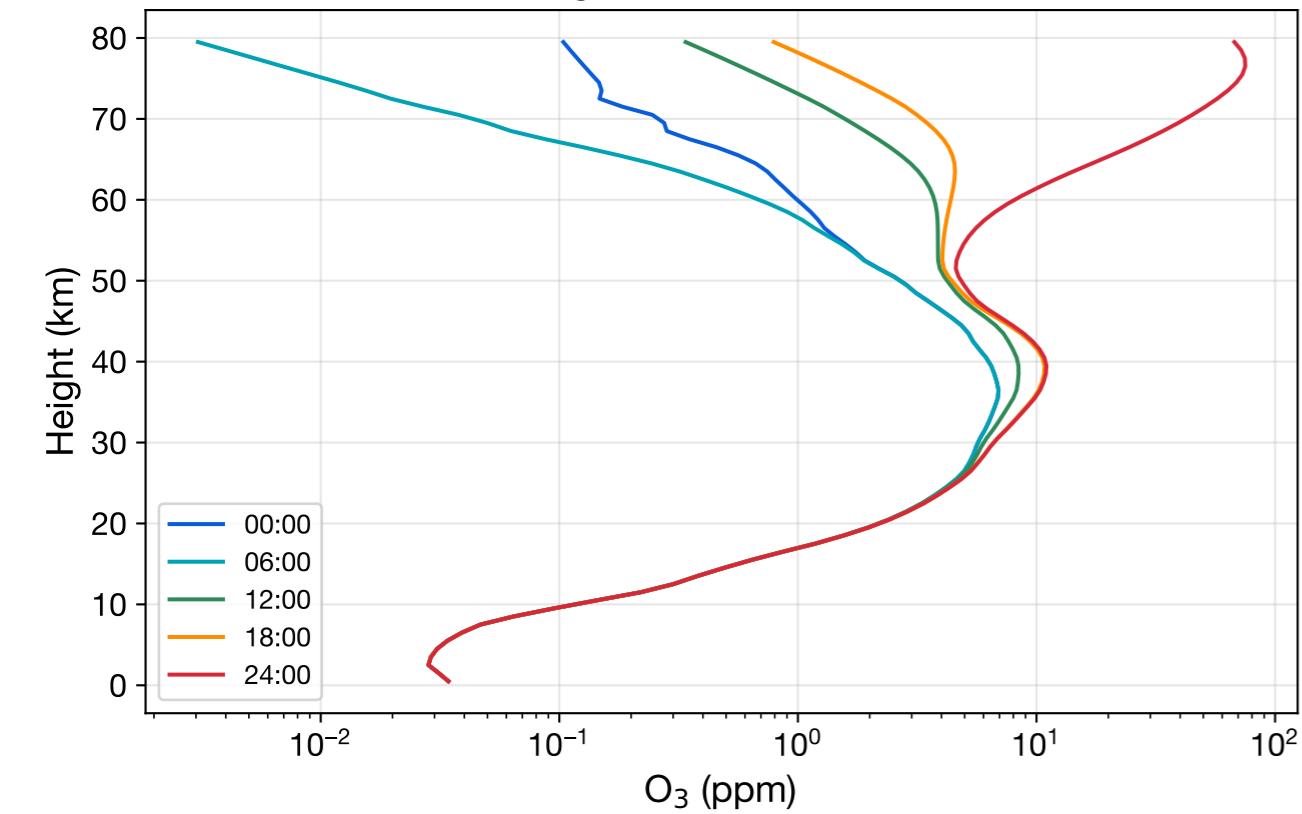
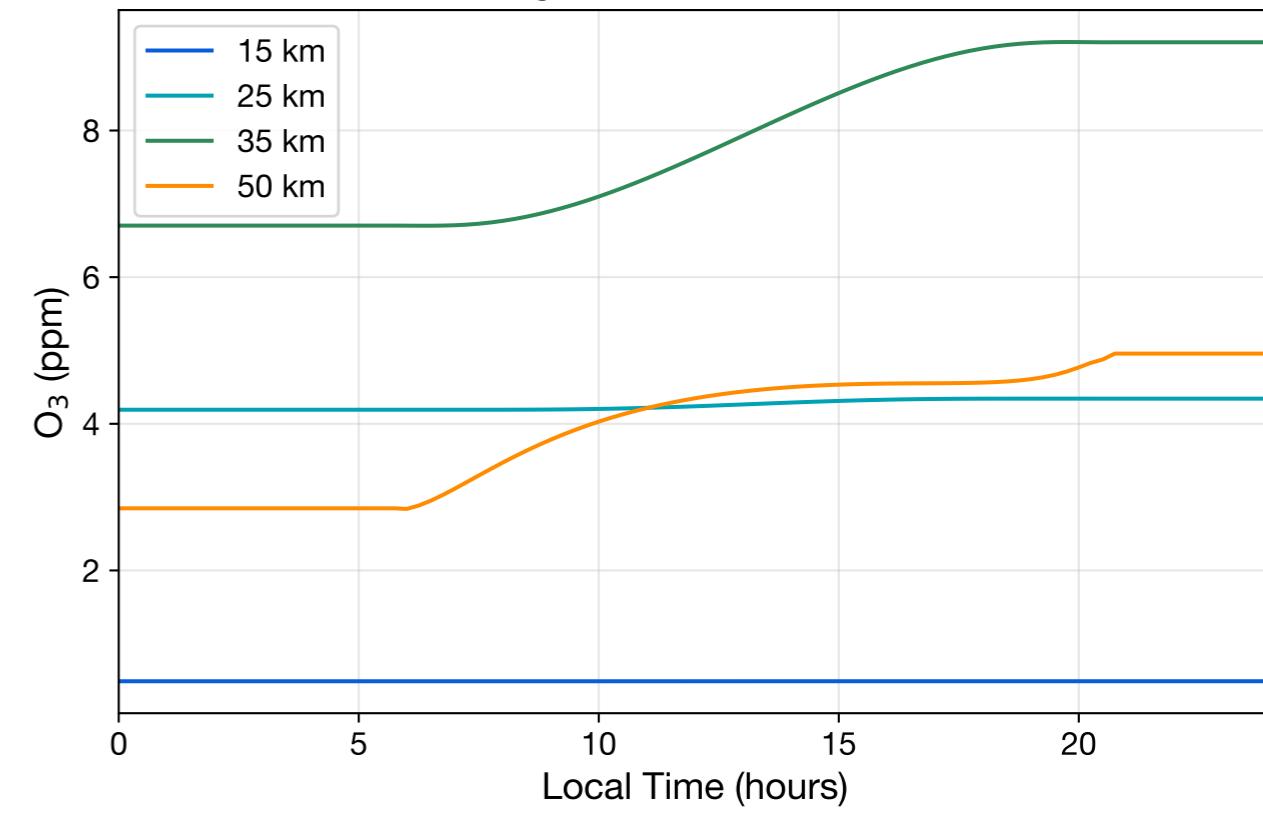


Coupled TUV-x + MICM Chapman Column Model  
Boulder CO, Summer Solstice

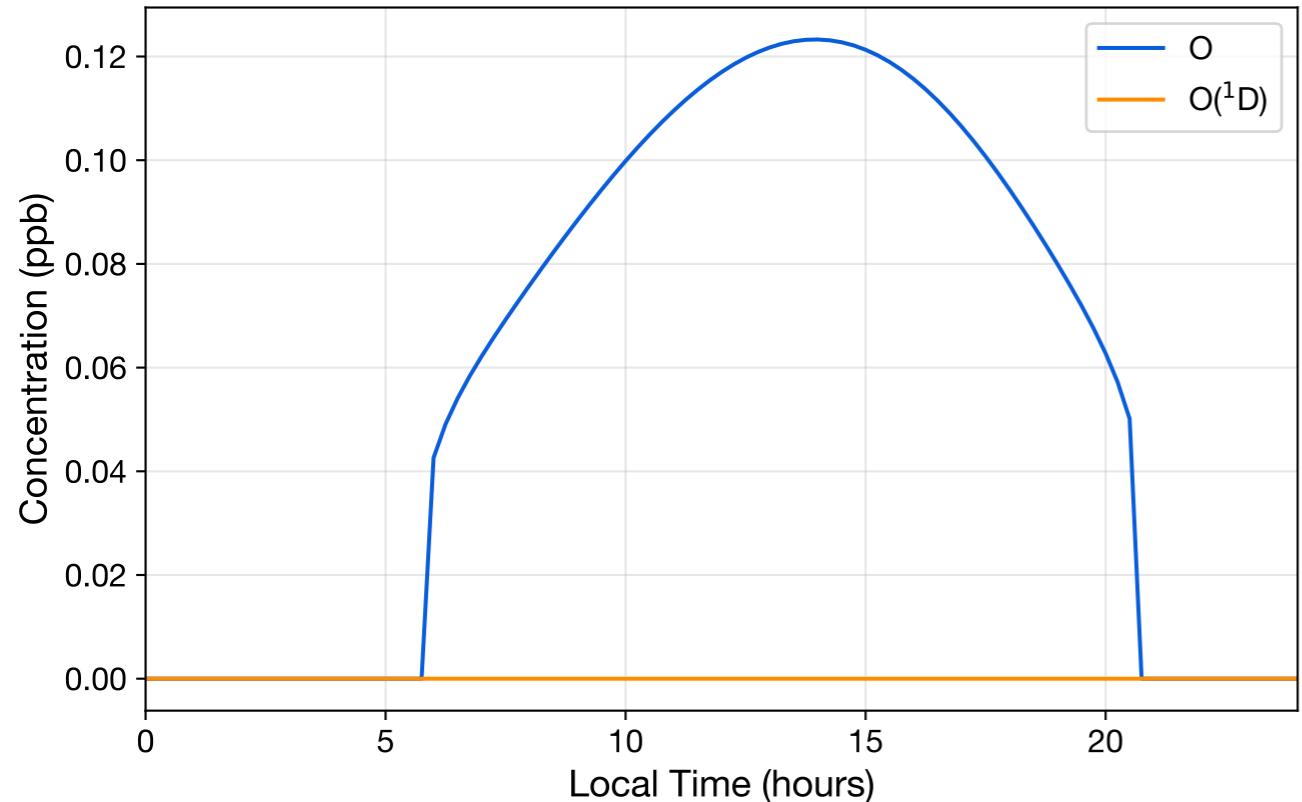
O<sub>3</sub> Vertical Profiles



O<sub>3</sub> Diurnal Evolution



Short-lived Species at 30 km



Photolysis Rates at 30 km

