

Instruction for running the 1-dimensional chemistry model using pgI compiler:

Step 1: wget <http://www.caps.ou.edu/micronet/backup/>

[CACHE_Megan_original_RACM_HU2013AE_pgfWorksExpanse_verifiedJun10_2024.tar](#)

Step 2: tar xvf

[CACHE_Megan_original_RACM_HU2013AE_pgfWorksExpanse_verifiedJun10_2024.tar](#)

cd

[CACHE_Megan_original_RACM_pgfWorksExpanse_verifiedJun10_2024](#)

Step 3: make clean

Step 4: make

Step 5: ./racmr

Step 5: do “ncl [plot_time_height_Ozone.ncl](#)”

You should see a figure named [Ozone_time_height.png](#)

Congrats, you are able to run a 1d chemistry model to simulation diurnal variation of boundary layer O₃

Please cite **Hu, X.-M.**, P. Klein , M. Xue, F. Zhang, D. Doughty, R. Forkel, E. Joseph, and J. D. Fuentes (2013), [Impact of the Vertical Mixing Induced by Low-level Jets on Boundary Layer Ozone Concentration](#), *Atmos. Environ.*, 70, 123-130.