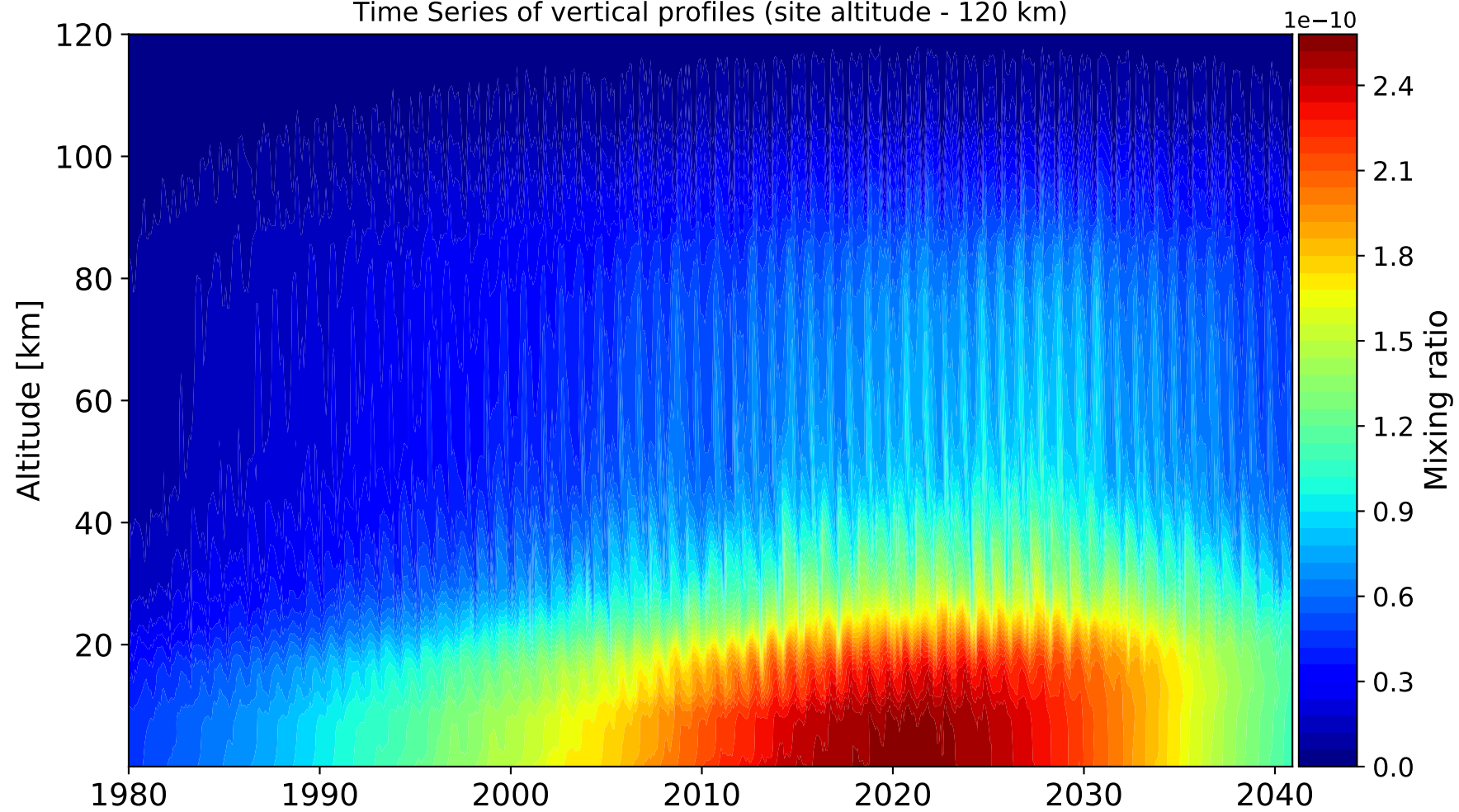
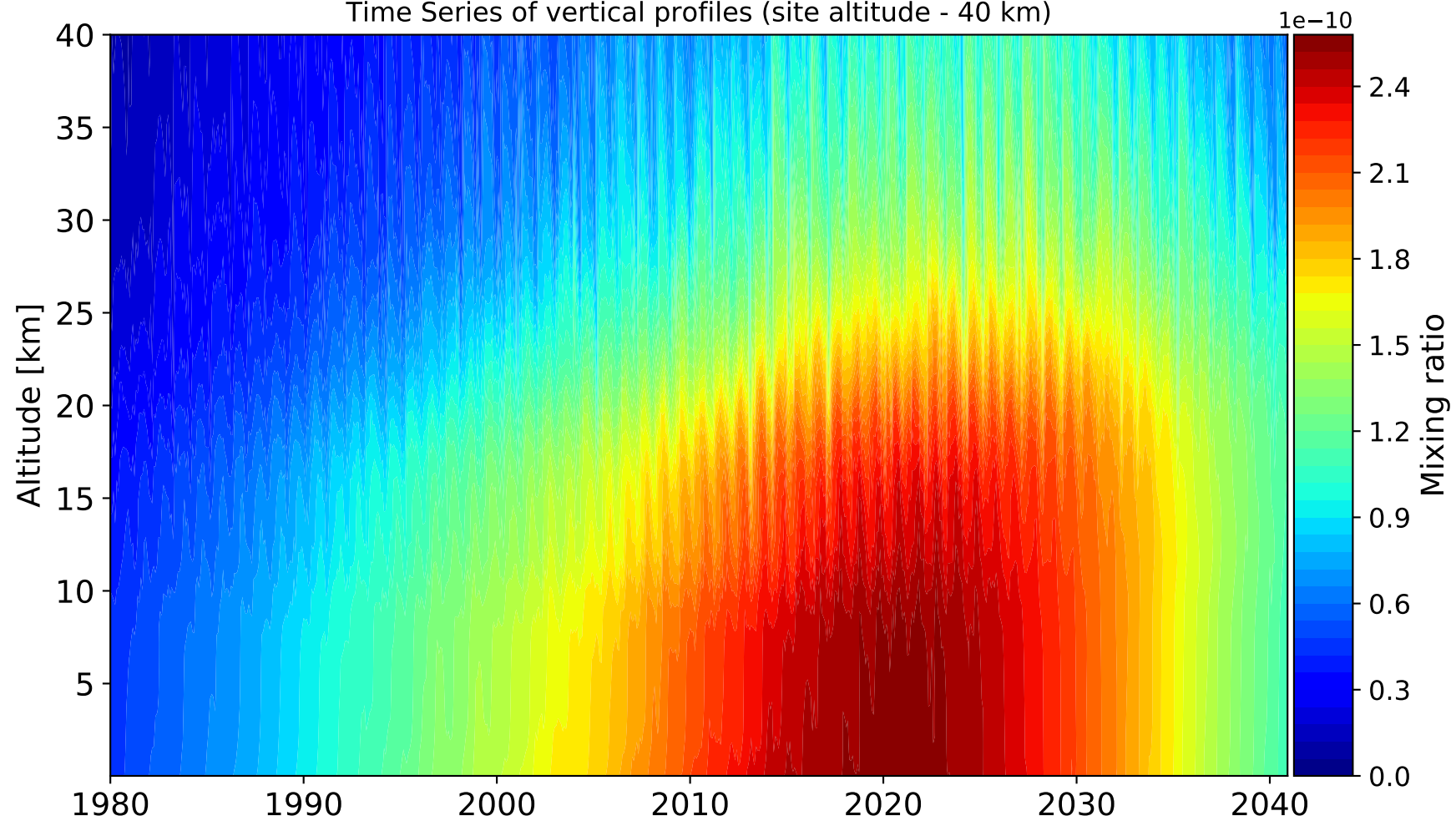


Time Series of vertical profiles (site altitude - 120 km)



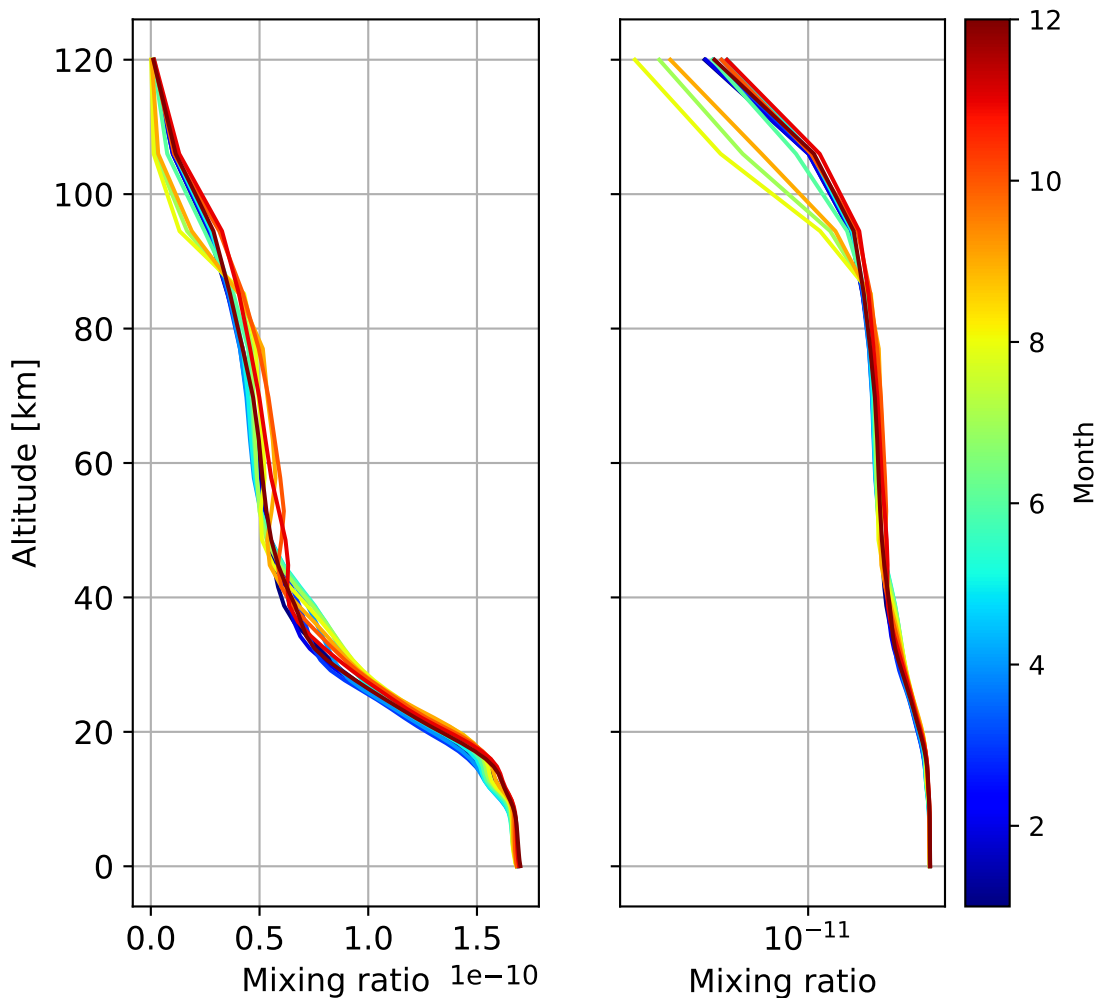


Time Series of vertical profiles (site altitude - 40 km)



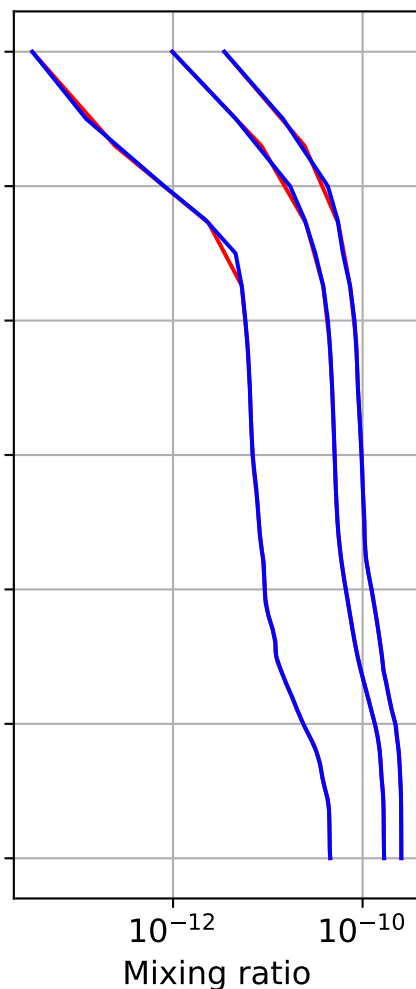
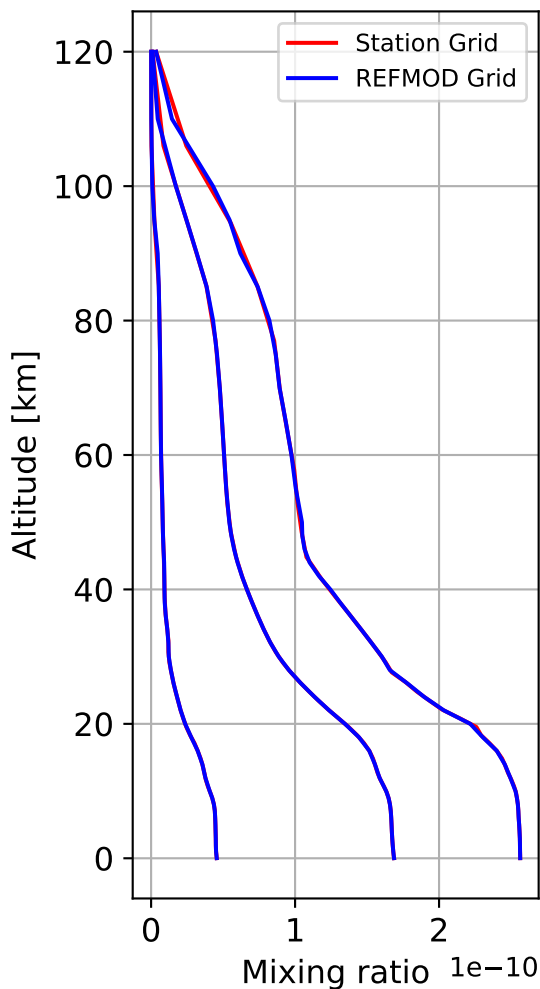


Monthly mean WACCM profile (interpolated to station grid)  
St\_Petersburg, 59.88N, 29.83E, 0.02kmasl



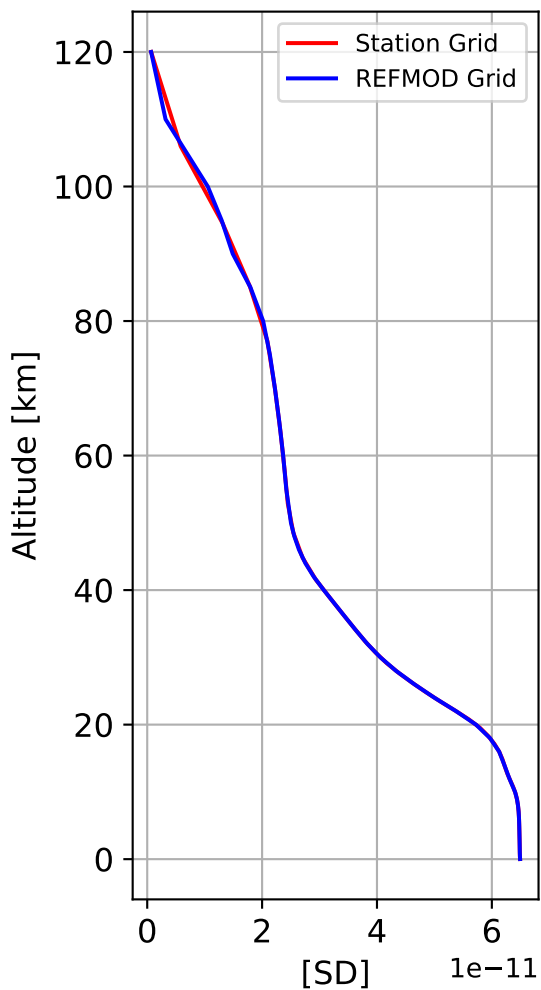


Min, Max, Mean of 732 profiles  
St\_Petersburg, 59.88N, 29.83E, 0.02kmasl

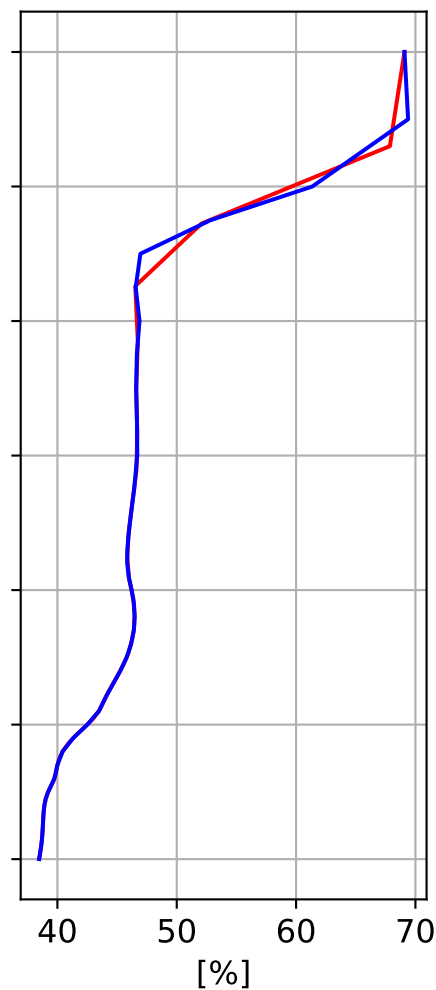




Std. Deviation



Percent Deviation





Level covariance matrix

1e-21

Altitude [km]

Mixing ratio[ $\sim 2$ ]