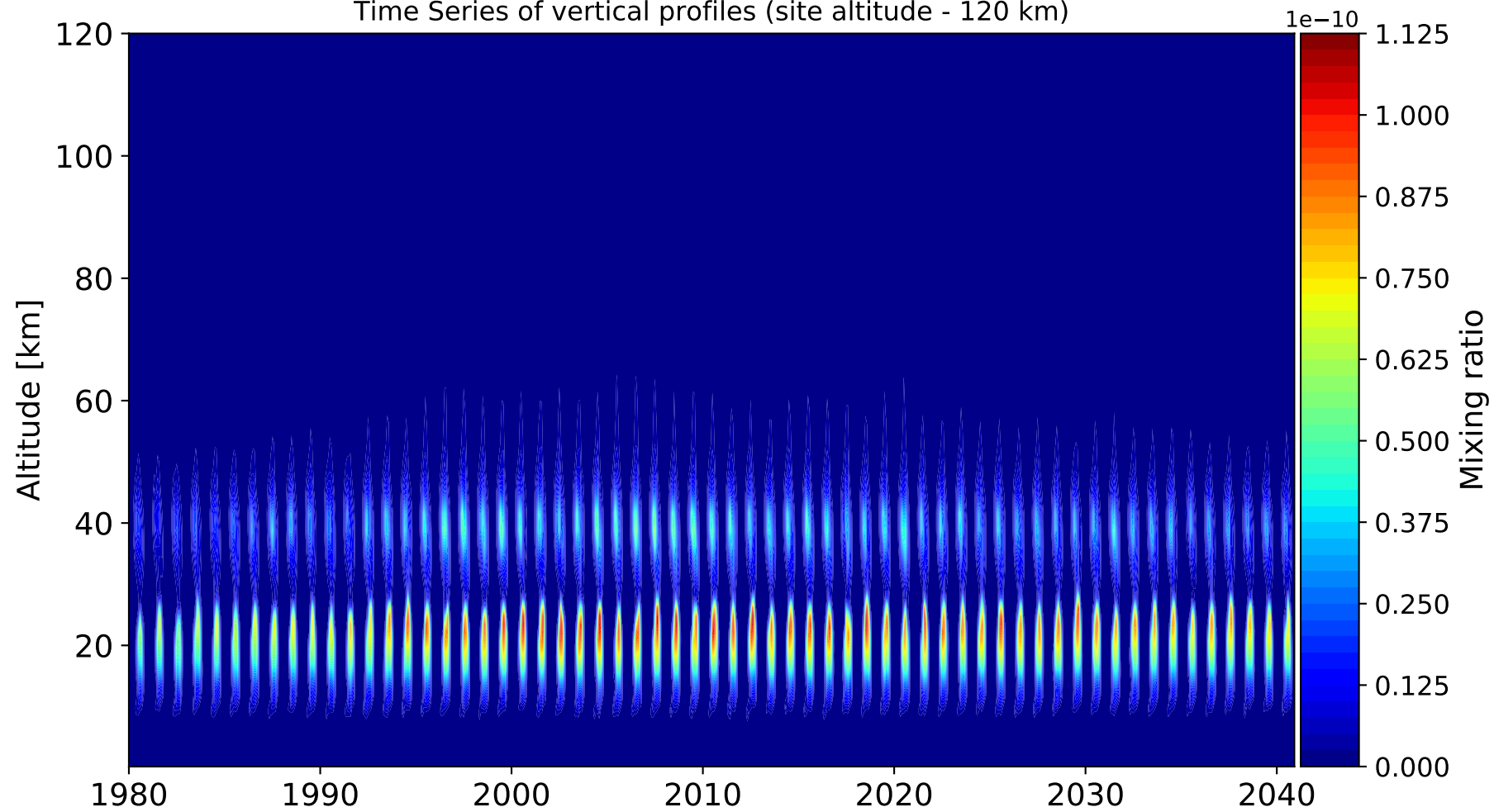
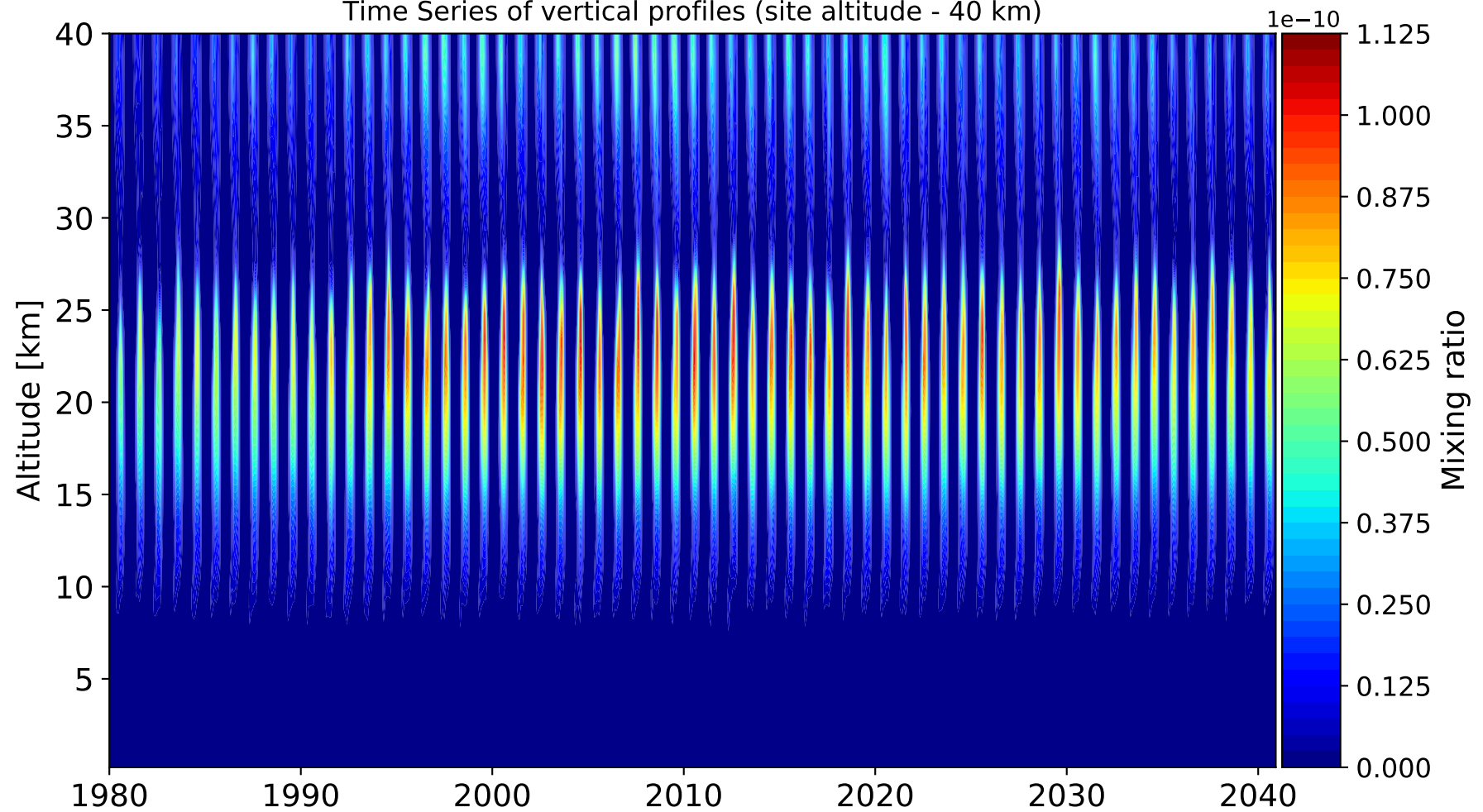


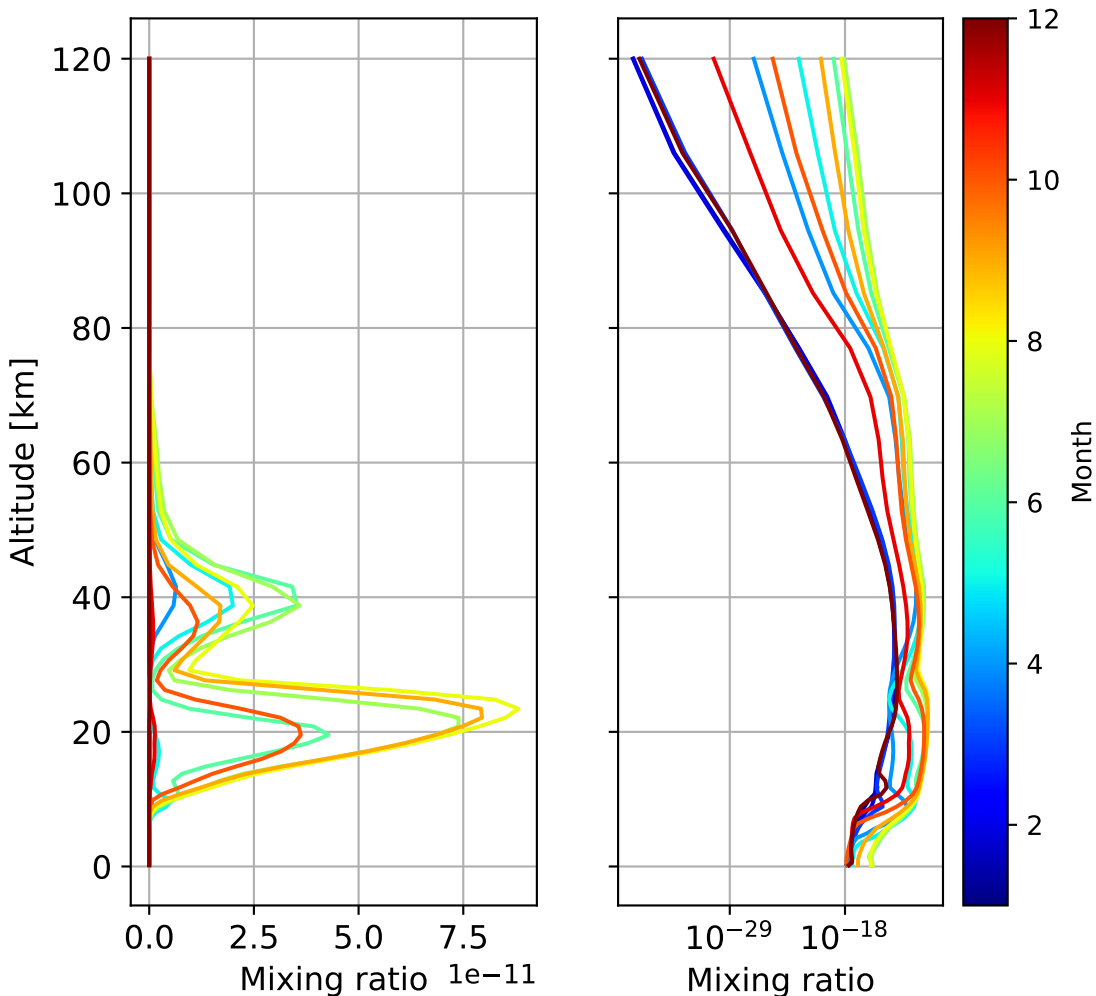
Time Series of vertical profiles (site altitude - 120 km)



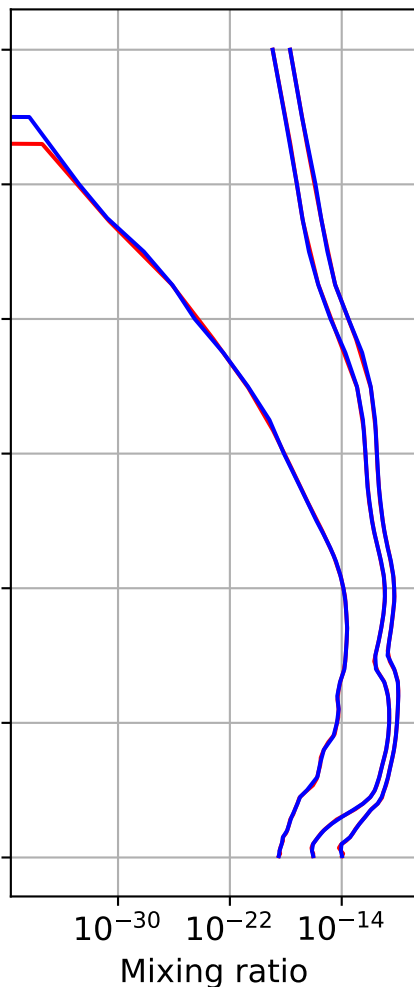
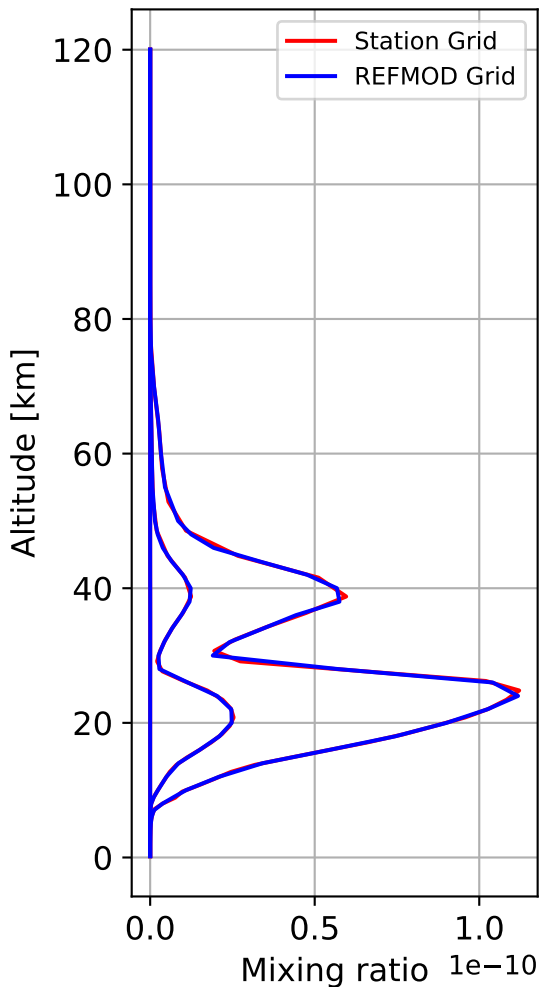
Time Series of vertical profiles (site altitude - 40 km)



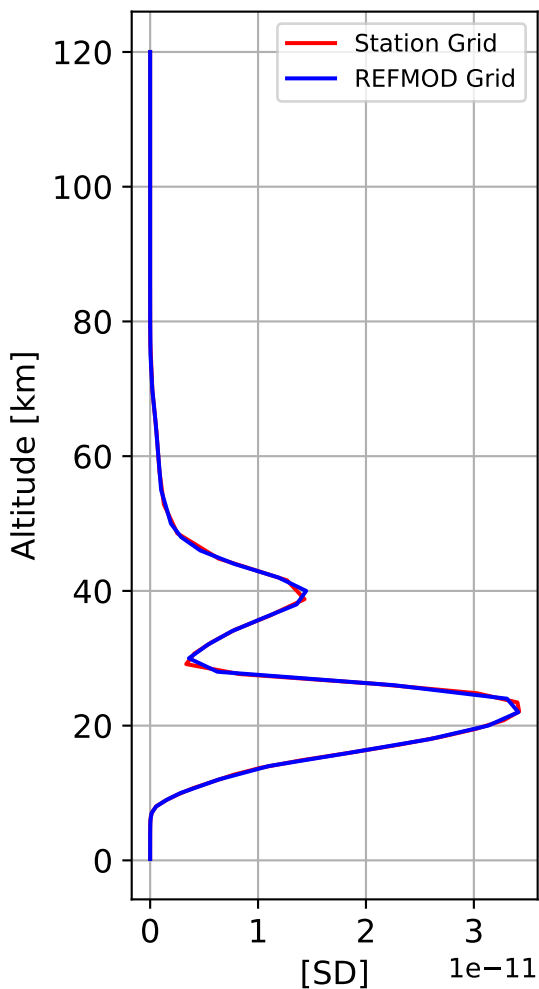
# Monthly mean WACCM profile (interpolated to station grid) Arrival\_Heights, -78.83N, 166.66E, 0.2kmasl



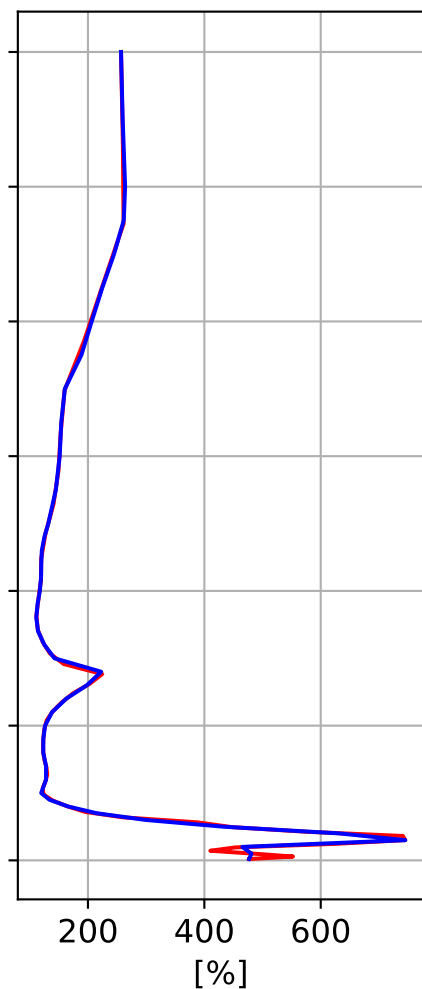
Min, Max, Mean of 732 profiles  
Arrival\_Heights, -78.83N, 166.66E, 0.2kmasl



### Std. Deviation



### Percent Deviation

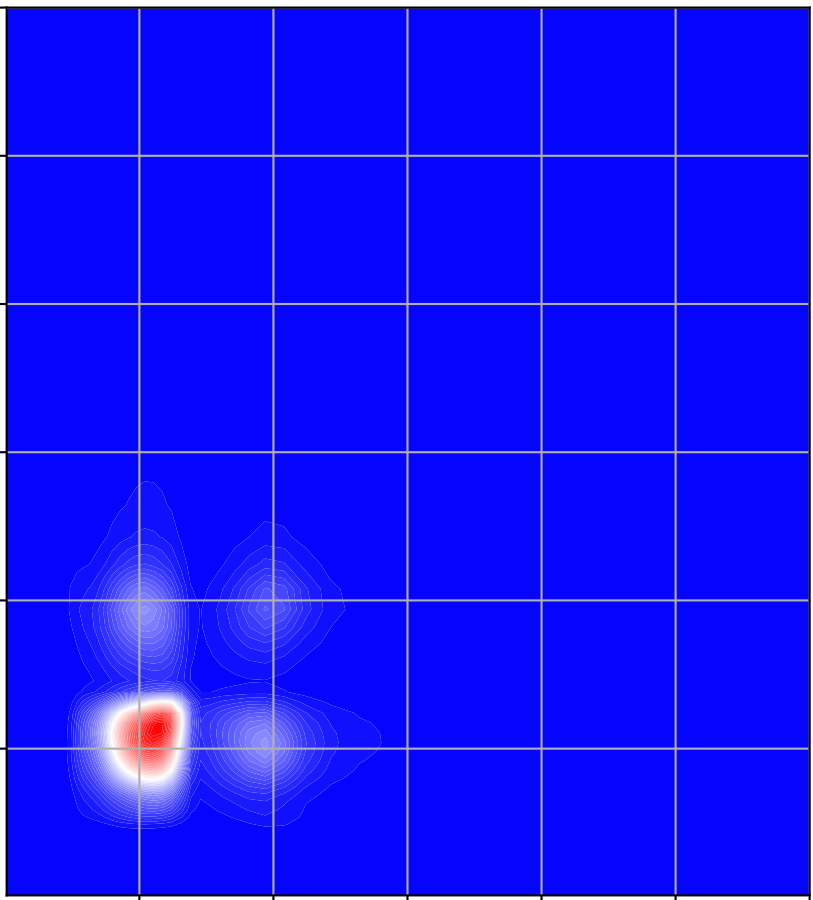


# Level covariance matrix

$1e-21$

Altitude [km]

120  
100  
80  
60  
40  
20



Mixing ratio[ $\sim 2$ ]

1.125  
1.000  
0.875  
0.750  
0.625  
0.500  
0.375  
0.250  
0.125  
0.000

20 40 60 80 100 120

Altitude [km]